



*Creative Technologies
Worldwide*

GORE™ Survey for Exploration FINAL REPORT

**GREAT BEAR PLAINS SURVEY AREA
NORTHWEST TERRITORIES, CANADA**

Order No. 12045661

17th August 2007

**Prepared For:
TALISMAN ENERGY INC.
Suite 3400, 888 3rd Street S.W.
Calgary, Alberta T2P 5C5
CANADA**

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GEOLOGICAL OPERATION AUTHORIZATION OPERATION IDENTIFIER
NUMBER: **9233-T077-002E**

TALISMAN ENERGY INC.
2007 GEOCHEMICAL SURVEY
FINAL REPORT
GREAT BEAR PLAINS AREA
D'ELINE DISTRICT
SAHTU SETTLEMENT AREA, NWT

GEOGRAPHICAL AREA: GREAT BEAR PLAINS (EXPLORATION LICENSE 437
AND LOSH LAKE G-22, LONG. 123.330925 W/LAT.
65.855178 N NAD 83 DATUM) AREA AND TWEED
LAKE (TWEED LAKE M-47, LONG. 125.904447
W/LAT. 66.946274 N NAD 83 DATUM), COLVILLE
HILLS, SAHTU SETTLEMENT AREA, NWT

CONTRACTOR: W.L. GORE & ASSOCIATES, INC.
100 CHESAPEAKE BOULEVARD, P.O. BOX 10
ELKTON, MARYLAND 21922-0010
UNITED STATES OF AMERICA

INTEREST OWNERS: TALISMAN ENERGY INC. & DEVON CANADA CORP

SUBMITTED BY W.L. GORE & ASSOCIATES INC. AND TALISMAN ENERGY
INC.

30 APRIL 2008



File 9233-T077-002E
23 January 2007

Bob Potter
Team Leader
Talisman Energy Inc.
Suite 3400, 888 3rd Stret SW
Calgary, AB T2P 5C5
Facsimile (403) 237-1234

Dear Mr. Potter:

**Talisman Energy Inc. 2007 Geochemical Survey, Great Bear Plains Area of
the Déline District in the Sahtu Settlement Area, NT**

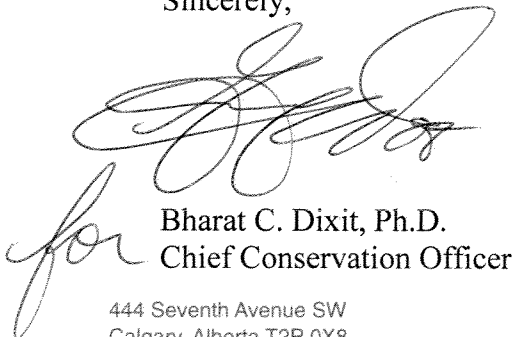
Please find attached a Geological Operation Authorization and the terms and conditions for the subject program. Please note that Operation Identifier No. **9233-T077-002E** has been assigned to this operation and should be quoted on all future correspondence.

Talisman Energy Inc., as the operator, is responsible for conducting this operation in accordance with the applicable legislation and this authorization. You are strongly encouraged to ensure that you and your contractors are aware of the terms and conditions of approval.

Please note that the NEB requires ample notice of start-up so that an inspector may be dispatched to view operations. On-site inspections may be undertaken by NEB Safety and Conservation Officers and you may be asked for assistance in providing transportation to the site. The inspector may wish to attend the start-up/safety meeting. Copies of minutes of start-up/safety meetings shall be provided to the NEB. These minutes should include subjects covered as well as personnel present.

Several report forms and information pages are attached for your information and use.

Sincerely,


for Bharat C. Dixit, Ph.D.
Chief Conservation Officer

444 Seventh Avenue SW
Calgary, Alberta T2P 0X8

444, Septième Avenue S.-O.
Calgary (Alberta) T2P 0X8



Telephone/Téléphone : (403) 292-4800
Facsimile/Télocopieur : (403) 292-5503
<http://www.neb-one.gc.ca>
Telephone/Téléphone : 1-800-899-1265
Facsimile/Télocopieur : 1-877-288-8803

/jek.

Encl: Geological Operation Authorization
Terms and Conditions
NT-NU Spill Report Form and Guidance
NEB Contact List
Weekly Progress Report Form
Canada Labour Code - Part XVI Information
Hazardous Occurrence Investigation Report Form



GEOLOGICAL OPERATION AUTHORIZATION

Applicant: Talisman Energy Inc.
Operating Licence No.: 1157 Land Use Permit / Water License No.: S06B-010 (IN REFERRAL)
Geographical Area: Great Bear Plains, Northwest Territories (Deline District)
Grids or NTS Map Sheets: 96G
Interest Identifier: Exploration Licence 436 & 437
Description of Operation: Geochemical Field Survey

SPECIFICS OF OPERATION

Exclusive ☒ Purchase ☐ Non-Exclusive ☐ Participation ☐
Proposed Commencement Date: 19/01/2007 Proposed Completion Date: 02/02/2007
No. of Personnel: 2 No. of Crews: 1
Vessel / Aircraft Names / Registration Numbers:

OPERATIONAL CONTACT

Name: Bob Potter, Team Leader, Nwt
Address: Suite 3400, 888 - 3 Street S.W. Calgary, Alberta T2P 5C5
Telephone: (403)237-4672 Facsimile: (403)693-2591

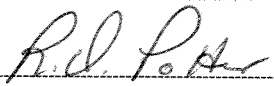
ESTIMATED EXPENDITURES

	On-Interest	Off-Interest
Field Work:	<u>\$65500.00</u>	<u>\$</u>
Interpretation / Laboratory:	<u>\$215500.00</u>	<u>\$</u>

CONTRACTORS

Data Acquisition: W. L. Gore & Associates / Peregrine Ventures Inc.
Data Interpretation / Laboratory Studies: Yes

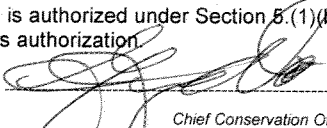
"I certify that I have complied with the notification, permitting and / or licencing requirements of all federal / territorial legislation that are applicable to this operation".

Signed:  Date: Dec 22, 2006
Responsible Officer

Name: Bob Potter Operator: Talisman Energy Inc.
Title: Team Leader, Nwt Telephone: (403)237-4672

NEB USE ONLY

This operation is authorized under Section 8.1(1)(b) of the *Canada Oil and Gas Operations Act* (O-7) and is subject to the terms and conditions attached to this authorization.

Signed:  Date: January 23, 2007
Chief Conservation Officer

Operation Identifier: 9233-FO77-002E Number of Attachments:

Terms and conditions of the approval are as stated below:

1. Unless otherwise directed by the Chief Conservation Officer, the operator shall implement or cause to be implemented all the policies, practices, mitigative measures, recommendations and procedures for the protection of the environment included in or referred to in the operator's application and the 2007 Geophysical Operations Authorization for a 2D seismic program.
2. The operator shall, within 30 days of the completion of the geological survey, file with the Chief Conservation Officer, a confirmation, by an officer of the company, that the approved Project was completed in compliance with all applicable conditions in the Geological Operation Authorization. If compliance with any of these conditions cannot be confirmed, the officer of the company shall file with the Chief Conservation Officer details as to why compliance cannot be confirmed.
3. The NEB shall be notified upon commencement and termination of activities.
4. The operator shall notify the NEB, by the most expedient communication means available, of any major incidents, accidents or any lost time occurrences. Any changes or updates in field contacts or Journey Management procedures in the Emergency Response Plan are to be conveyed to the NEB as soon as the changes or updates are made. Telephone numbers are provided on the attached NEB contact list.
5. The operation is to be conducted in a manner consistent with the requirements of the *Canada Labour Code Part II* and the *Oil and Gas Occupational Safety and Health Regulations*.
6. Weekly status reports, with the **Operation Identification No.** in the subject line, are to be emailed to dailyreports@neb-one.gc.ca or faxed to the attention of the Chief Conservation Officer (fax number (403) 292-5876) by Monday 8:30 am. Please contact Lori-Ann Sharp (telephone (403) 299-1994) should there be any difficulty in delivery of the weekly status reports.
7. A final report, including one (1) copy of the written report and any maps generated, and one (1) electronic copy (pdf-portable document format) is required **within twelve (12) months** following termination of field work.



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR		REPORT TIME		☐ ORIGINAL SPILL REPORT, OR ☐ UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
	B OCCURRENCE DATE: MONTH – DAY – YEAR		B OCCURRENCE TIME			
C	LAND USE PERMIT NUMBER (IF APPLICABLE)			WATER LICENCE NUMBER (IF APPLICABLE)		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION			REGION		
				☐ NWT ☐ NUNAVUT ☐ ADJACENT JURISDICTION OR OCEAN		
E	LATITUDE			LONGITUDE		
	DEGREES	MINUTES	SECONDS	DEGREES	MINUTES	SECONDS
F	RESPONSIBLE PARTY OR VESSEL NAME		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION			
G	ANY CONTRACTOR INVOLVED		CONTRACTOR ADDRESS OR OFFICE LOCATION			
H	PRODUCT SPILLED		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES		U.N. NUMBER	
	SECOND PRODUCT SPILLED (IF APPLICABLE)		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES		U.N. NUMBER	
I	SPILL SOURCE		SPILL CAUSE		AREA OF CONTAMINATION IN SQUARE METRES	
J	FACTORS AFFECTING SPILL OR RECOVERY		DESCRIBE ANY ASSISTANCE REQUIRED		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT	
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS					
L	REPORTED TO SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLING FROM	TELEPHONE	
M	ANY ALTERNATE CONTACT	POSITION	EMPLOYER	ALTERNATE CONTACT LOCATION	ALTERNATE TELEPHONE	
REPORT LINE USE ONLY						
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLOYER	LOCATION CALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130	
LEAD AGENCY ☐ EC ☐ CCG ☐ GNWT ☐ GN ☐ ILA ☐ INAC ☐ NEB ☐ TC			SIGNIFICANCE ☐ MINOR ☐ MAJOR ☐ UNKNOWN		FILE STATUS ☐ OPEN ☐ CLOSED	
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS		
LEAD AGENCY						
FIRST SUPPORT AGENCY						
SECOND SUPPORT AGENCY						
THIRD SUPPORT AGENCY						

Instructions for Completing the NT-NU Spill Report Form

This form can be filled out electronically and faxed to the spill line at 867-873-6924. Commencing on January 2, 2007, the form can also be e-mailed as an attachment to spills@gov.nt.ca. Until further notice, please verify receipt of e-mail transmissions with a follow-up telephone call. Spills can still be phoned in by calling collect at 867-920-8130.

A. Report Date/Time	The actual date and time that the spill was reported to the spill line. If the spill is phoned in, the Spill Line will fill this out. Please do not fill in the Report Number: the spill line will assign a number after the spill is reported.
B. Occurrence Date/Time	Indicate, to the best of your knowledge, the exact date and time that the spill occurred. Not to be confused with the report date and time (see above).
C. Land Use Permit Number /Water Licence Number	This only needs to be filled in if the activity has been licenced by the Nunavut Water Board and/or if a Land Use Permit has been issued. Applies primarily to mines and mineral exploration sites.
D. Geographic Place Name	In most cases, this will be the name of the city or town in which the spill occurred. For remote locations – outside of human habitations – identify the most prominent geographic feature, such as a lake or mountain and/or the distance and direction from the nearest population center. You must include the geographic coordinates (Refer to Section E).
E. Geographic Coordinates	This only needs to be filled out if the spill occurred outside of an established community such as a mine site. Please note that the location should be stated in degrees, minutes and seconds of Latitude and Longitude.
F. Responsible Party Or Vessel Name	This is the person who was in management/control/ownership of the substance at the time that it was spilled. In the case of a spill from a ship/vessel, include the name of the ship/vessel. Please include full address, telephone number and e-mail. Use box K if there is insufficient space. Please note that, the owner of the spilled substance is ultimately responsible for any spills of that substance, regardless of who may have actually caused the spill.
G. Contractor involved?	Were there any other parties/contractors involved? An example would be a construction company who is undertaking work on behalf of the owner of the spilled substance and who may have contributed to, or directly caused the spill and/or is responding to the spill.
H. Product Spilled	Identify the product spilled; most commonly, it is gasoline, diesel fuel or sewage. For other substances, avoid trade names. Wherever possible, use the chemical name of the substance and further, identify the product using the four digit UN number (eg: UN1203 for gasoline; UN1202 for diesel fuel; UN1863 for Jet A & B)
I. Spill Source	Identify the source of the spill: truck, ship, home heating fuel tank and, if known, the cause (eg: fuel tank overfill, leaking tank; ship ran aground; traffic accident, vandalism, storm, etc.). Provide an estimate of the extent of the contaminated/impacted area (eg: 10 m ²)
J. Factors Affecting Spill	Any factors which might make it difficult to clean up the spill: rough terrain, bad weather, remote location, lack of equipment. Do you require advice and/or assistance with the cleanup operation? Identify any hazards to persons, property or equipment: for example, a gasoline spill beside a daycare centre would pose a safety hazard to children. Use box K if there is insufficient space.
K. Additional Information	Provide any additional, pertinent details about the spill, such as any peculiar/unique hazards associated with the spilled material. State what action is being taken towards cleaning up the spill; disposal of spilled material; notification of affected parties. If necessary, append additional sheets to the spill report. Number the pages in the same format found in the lower right hand corner of the spill form: eg. "Page 1 of 2", "Page 2 of 2" etc. Please number the pages to ensure that recipients can be certain that they received all pertinent documents. If only the spill report form was filled out, number the form as "Page 1 of 1".
L. Reported to Spill Line by	Include your full name, employer, contact number and the location from which you are reporting the spill. Use box K if there is insufficient space.
M. Alternate Contact	Identify any alternate contacts. This information assists regulatory agencies to obtain additional information if they cannot reach the individual who reported the spill.
N. Report Line Use Only	Leave Blank. This box is for the Spill Line's use only.



NEB Contacts for COGO Act-regulated Work or Activities

INCIDENT PHONE NUMBERS <i>* Hazardous occurrences (under Part XVI of the Canada Oil and Gas Occupational Safety and Health Regulations) and incidents requiring medical evacuation are to be reported to the NEB immediately.</i>		NEB 24-hour Incident Cell: (403) 807-9473 NWT/Nunavut Spill Line Phone: (867) 920-8130 NWT/Nunavut Spill Line Fax: (867) 873-6924 Transportation Safety Board Hotline: (819) 997-7887
NEB Operations Staff	Internet	Telephone Numbers
Rick Turner Operations Specialist Safety & Conservation Officer	rturner@neb-one.gc.ca	Work: (403) 299-3868 Cell: (403) 540-3754 Home: (403) 257-0840
Chris Knoechel Petroleum Engineering Specialist Safety & Conservation Officer	cknoechel@neb-one.gc.ca	Work: (403) 299-3866 Cell: Home: (403) 241-0047
Environment and Spill Reporting	Internet	Telephone Numbers
John Korec Environmental Specialist Conservation Officer	jkorec@neb-one.gc.ca	Work: (403) 292-6614 Cell: (403) 818-2403 Home: (403) 275-6256
Anne-Marie Buchwald Environmental Specialist	abuchwald@neb-one.gc.ca	Work: (403) 292-4931 Cell: Home: (403) 366-9899
Pam Romanchuk Environmental Specialist	promanchuk@neb-one.gc.ca	Work: (403) 299-3906 Cell: Home: (403) 253-3128
Chief Conservation & Safety Officers	Internet	Telephone Numbers
Bharat Dixit Exploration and Production, Team Leader Chief Conservation Officer	bdixit@neb-one.gc.ca	Work: (403) 299-2792 Cell: (403) 617-3887 Home: (403) 239-1093
Alan Murray Professional Leader, Engineering Chief Safety Officer	amurray@neb-one.gc.ca	Work: (403) 299-3903 Cell: (403) 815-6661 Home: (403) 282-5637
NEB OPERATIONS PHONE NUMBERS	Main Office: (403) 292-4800 Operations Fax: (403) 292-5876 Alternate Fax: (403) 292-5875	

WEEKLY PROGRESS REPORT

PROGRAM NAME: _____ PERIOD _____ TO _____

APPROVALS

	NATIONAL ENERGY BOARD	INDIAN & NORTHERN AFFAIRS CANADA		SAHTU LAND & WATER BOARD
OPERATION ID#				
EXP. DATE				

COMPANY NAME: _____

SEISMIC CONTRACTOR: _____

AUTHORIZED PROGRAM PARAMETERS

ALTERATION OR MODIFICATION OF THE APPROVED PARAMETERS REQUIRES APPROVAL FROM APPROPRIATE REGULATORY AGENCY

TOTAL # OF 2D Km APPROVED		3D SIZE KM SQ APPROVED		SOURCE TYPE	
TOTAL # OF LINES 2D APPROVED		NUMBER 3D SOURCE LINES		CHARGE SIZE/# VIBS	
RECEIVER WIDTH		3D SOURCE Km		SHOT HOLE DEPTH (m)	
SOURCE WIDTH		NUMBER 3D REC. LINES		CAP LEAD LENGTH (m)	
		3D RECEIVER Km		CAP LEAD LENGTH ABOVE GROUND (m)	

UNDETONATED CHARGES:	
LOCATION: (NAD 27)	
REASON:	

INSPECTIONS: (INAC, NEB, ILA, DFO)	
---	--

OPERATIONAL ISSUES:	

SUMMARY OF INCIDENTS: (eg: fuel spills, vehicles breaking through ice)	

GENERAL COMMENTS:	

LAT. / LONG. STAGING AREAS	
-----------------------------------	--

LAT. / LONG. CAMP LOCATIONS	
------------------------------------	--

DATE SUBMITTED TO: INAC		NEB			
For Sahtu >>	descenes@inac.gc.ca	dailyreport@neb-one.gc.ca			

PARTY MANAGER: _____

FIELD FAX _____

FIELD PHONE# _____

FIELD E-MAIL _____

ACTIVITY DURING REPORTING PERIOD

[illegible]

* TO ADD ADDITIONAL COLUMNS AND ROWS, COPY CELLS FROM THIS PAGE TO CREATE AN ADDITIONAL PAGE WITH FORMATED CELLS

CANADA LABOUR CODE

Oil and Gas Occupational Safety and Health Regulations

PART XVI

HAZARDOUS OCCURRENCE INVESTIGATION, RECORDING AND REPORTING

[SOR/94-165, s. 59(F)]

Interpretation

16.1 In this Part,

"disabling injury" means an employment injury or an occupational disease that

- (a) prevents an employee from reporting for work or from effectively performing all the duties connected with the employee's regular work on any day subsequent to the day on which the disabling injury occurred, whether or not that subsequent day is a working day for that employee,
- (b) results in the loss by an employee of a body member or part thereof or in the complete loss of the usefulness of a body member or part thereof, or
- (c) results in the permanent impairment of a body function of an employee;

"minor injury" means an employment injury or an occupational disease for which medical treatment is provided and excludes a disabling injury. (blessure légère) SOR/94-165, s. 60.

Report by Employee

16.2 Where an employee becomes aware of an accident or other occurrence arising in the course of or in connection with his work that has caused injury to him or to any other person, he shall without delay report the accident or other occurrence to his employer, orally or in writing.

Investigation

16.3 (1) Where an employer is aware of an accident, occupational disease or other hazardous occurrence affecting any of his employees in the course of employment, the employer shall, without delay,

- (a) take necessary measures to prevent a recurrence of the hazardous occurrence;
 - (b) appoint a qualified person to carry out an investigation of the hazardous occurrence; and
 - (c) notify the safety and health committee or the safety and health representative, if either exists, of the hazardous occurrence and of the name of the person appointed to investigate it.
- (2) In addition to the investigation referred to in paragraph (1)(b), where the hazardous occurrence referred to in subsection (1) is an accident involving a ship or aircraft or a motor vehicle on a public road, the employer shall investigate the accident by obtaining from the appropriate police or other investigating authority a copy of the report made by that authority in respect of the accident.

(3) As soon as possible after receipt of the report referred to in subsection (2), the employer shall provide a copy thereof to the safety and health committee or the safety and health representative, if either exists. SOR/94-165, s. 61.

Hazardous Occurrence Report

[SOR/94-165, s. 62(F)]

16.4 (1) The employer shall report, by the most rapid means of communication available to the employer, the date, time, location and nature of any accident, occupational disease or other hazardous occurrence referred to in section 16.3 to a safety officer and to the safety and health committee or the safety and health representative, if either exists, as soon as possible but not later than 24 hours after becoming aware of the occurrence, where the occurrence resulted in one of the following circumstances:

- (a) the death of an employee;
- (b) a missing person;
- (c) a disabling injury to an employee;
- (d) the implementation of emergency rescue, revival or evacuation procedures;
- (e) a fire or explosion that threatened the safety or health of an employee;
- (f) the free fall of an elevating device that rendered the elevating device unsafe for use by an employee;
- (g) an accidental accumulation, spill or leak of a hazardous substance; or
- (h) the loss of or damage to support craft.

(2) A written report of the accident, occupational disease or other hazardous occurrence referred to in subsection (1) shall be submitted by the employer within 14 days after the occurrence to

- (a) the regional safety officer at the regional office; and
- (b) the safety and health committee or the safety and health representative, if either exists.

(3) The report referred to in subsection (2) shall be in the form set out in Schedule I to this Part and contain the information required by the form. SOR/88-199, s. 19; SOR/94-165, s. 63.

16.5 Where an investigation referred to in subsection 16.3(2) discloses that the accident resulted in a circumstance referred to in subsection 16.4(1), the employer shall, within 14 days after the receipt of the report of the accident made by the police or other investigating authority, submit a copy of the report to the regional safety officer at the regional office.

Minor Injury Record

16.6 (1) Every employer shall keep a record of each minor injury of which he is aware that affected any of his employees in the course of employment.

(2) A record made pursuant to subsection (1) shall contain

(a) the date, time and location of the occurrence that resulted in the minor injury;

(b) the name of the injured or ill employee;

(c) a brief description of the minor injury; and

(d) the causes of the minor injury.



Gouvernement du Canada
Government of Canada

SCHEDULE 1 / ANNEXE 1
(subsection 16.4(3) / paragraphe 16.4(3))

HAZARDOUS OCCURRENCE INVESTIGATION
REPORT

RAPPORT D'ENQUÊTE DE
SITUATION COMPORTANT DES RISQUES

1. Type of Occurrence / Genre de situation ☐ Explosion ☐ Loss of consciousness / Perte de conscience ☐ Disabling injury / Blessure invalidante ☐ Emergency procedure / Procédure d'urgence ☐ Other (specify) / Autre (préciser) _____		2. Department file no. / N° de dossier du ministère Regional or district Office / Bureau régional ou de district Employer ID no. / Numéro d'identification de l'employeur	
3. Employer name and mailing address / Nom et adresse postale de l'employeur		Postal code / Code postal	
		Telephone number / Numéro de téléphone	
Site of hazardous occurrence / Lieu de la situation comportant des risques		Date and time of hazardous occurrence / Date et heure de la situation comportant des risques	
		Weather / Conditions météorologiques	
Witnesses / Témoins		Supervisor's name / Nom du surveillant	
		Operator / Exploitant	
Identification of drilling rig, drilling unit, production facility or support craft / Identification de l'appareil de forage, installation de forage, installation de production ou du véhicule de service			
4. Description of what happened / Description des événements			
Brief description and estimated cost of property damage / Description sommaire et coût estimatif des dommages matériels		Operation in progress / Opération en cours	
5. Injured employee's name (if applicable) / Nom de l'employé blessé (s'il y a lieu)		Age / Âge	Sex / Sexe
Occupation / Profession		Years of experience in occupation / Nombre d'années d'expérience dans la profession	
Description of injury / Description de la blessure			
Was training in accident prevention given to injured employee in relation to duties performed at the time of the hazardous occurrence? / L'employé blessé a-t-il reçu une formation en prévention des accidents relativement aux fonctions qu'il exerçait au moment de la situation comportant des risques? ☐ Yes ☐ No Specify Oui Non Préciser			
6. Direct causes of hazardous occurrence / Causes directes de la situation hasardeuse			
7. Corrective measures and date employer will implement / Mesures correctives qui seront appliquées par l'employeur et date d'entrée en vigueur Reasons for not taking corrective measures / Raisons pour lesquelles aucune mesure corrective n'a été prise Supplementary preventative measures / Mesures supplémentaires de prévention			
8. Name of person investigating / Nom de la personne menant l'enquête		Signature	Date
Title / Titre		Telephone number / Numéro de téléphone	
9. Safety & Health committee's or representative's comments / Observations du comité de sécurité et de santé ou du représentant en matière de sécurité et de santé			
Committee member's or representative's name / Nom du membre du comité ou du représentant		Signature	Date
Title / Titre		Telephone number / Numéro de téléphone	

Lab / Trav 369 (O&G) (rev. 93/02)

COPIES TO: Safety Officer, Safety and Health Committee or Representative, Employer

COPIES À : l'agent de sécurité, le comité de sécurité et de santé ou le représentant en matière de sécurité et de santé, l'employeur

REPORT of FINDINGS
GORE™ Survey for Exploration

GREAT BEAR PLAINS SURVEY
NWT, CANADA

Gore Production Order No. 12045661

Conducted For:
TALISMAN ENERGY INC.
Suite 3400, 888 3rd Street S.W.
Calgary, Alberta T2P 5C5
CANADA

PREPARED BY:

DATE:

Paul A. Harrington, B.Sc.
Senior Geologist

17th August 2007

REVIEWED BY:

DATE:

Alan H. Silliman, M. S. Geology
Senior Technical Associate

17th August 2007

W. L. GORE & ASSOCIATES, INC.
100 CHESAPEAKE BOULEVARD, P.O. BOX 10
ELKTON, MARYLAND 21922-0010
UNITED STATES OF AMERICA
(410) 392-7600

TABLE OF CONTENTS

<u>TITLE</u>	<u>PAGE</u>
EXECUTIVE SUMMARY	i
1.0 INTRODUCTION & BACKGROUND	1
2.0 SURVEY OBJECTIVE	2
3.0 SURVEY DESIGN AND FIELD WORK	3
4.0 SAMPLE INSPECTION AND QA/QC ANALYSIS	4
4.1 Sample Inspection	4
4.2 QA/QC Analysis	5
5.0 GORE GEOCHEMICAL MODELING	8
6.0 SURVEY RESULTS	10
6.1 Model Development and Results	10
6.1.1 Development of “Supervised” Geochemical Model of Gas Emanation	10
6.1.2 Development of “Unsupervised” Geochemical Model of Gas Emanation	11
6.1.3 Geochemical Results	16
7.0 SUMMARY & CONCLUSIONS	24

APPENDICES

APPENDIX A:	Summary Results
	1. Model Probability Values Summary
APPENDIX B:	The GORE Survey for Exploration Surface Geochemical Sampling System
APPENDIX C:	Survey Sampler Information
	1. GORE Sample Reconciliation Summary
	2. Field Documentation from PEREGRINE
APPENDIX D:	Customer-Supplied Information
	1. Project Information Form
	2. Geological Information

LIST OF TABLES

	<u>Page</u>
Table 1. Model Well Site Information	3
Table 2. Analytical Compound List	5
Table 3. List of Signal to Noise Failed Compounds	7
Table 4. List of Disqualified Samples	8

LIST OF FIGURES

Figure 1. Location of the Great Bear Plains Survey Area	1
Figure 2. Canonical Variates Plot	6
Figure 3. Compound Correlation: Tweed Lake M47 Gas Model Signature	11
Figure 4. Plot of Hierarchical Clustering Dendrogram	12
Figure 5. Plot of Cluster 15 Signature	13
Figure 6. Plot of Cluster 17 Signature	13
Figure 7. Plot of Losh Lake Dry Well Signature	14
Figure 8. Plot of Cluster 13 Signature	14
Figure 9. Plot of Cluster 7 Signature	15
Figure 10. Plot of Tweed Lake M47 Gas Well Signature	15
Figure 11. Graphic Illustration of Discriminant Analysis Separation and Probability Value Determination	17
Figure 12. Tweed Lake M47 Gas-like Probability Distributions (Colville Hills Area)	19
Figure 13. Tweed Lake M47 Gas-like Probability Distributions (EL 437 Area)	20
Figure 14. Cluster 13 Gas-like Probability Distributions	21
Figure 15. Cluster 7 Gas-like Probability Distributions	22
Figure 16. Combined Clusters 7 and 13 Gas-like Probability Distributions	23

PLATES

Plate 1:	Tweed Lake M47 Gas-Like Probability Distributions (Colville Hills Area)
Plate 2:	Tweed Lake M47 Gas-like Probability Distributions (EL 437 Area)
Plate 3:	Cluster 13 Gas-like Probability Distributions
Plate 4:	Cluster 7 Gas-like Probability Distributions
Plate 5:	Combined Clusters 7 and 13 Gas-like Probability Distributions

EXECUTIVE SUMMARY

TALISMAN ENERGY INC. (TALISMAN) contracted W. L. GORE & ASSOCIATES (GORE) to conduct a GORE™ Survey for Exploration over an area identified as Great Bear Plains (Exploration License 437) in the Northwest Territories in Canada. The survey area was located in the Great Bear Basin, a shallow Cretaceous basin overlaying lower Paleozoic strata. The location of the EL 437 survey area and the Colville Hills model template are shown on a satellite image in Figure 1. The Cambrian Mount Clark formation was the target sandstone reservoir for this area.

The primary purpose of the surface geochemical survey was to determine the probability of significant hydrocarbon accumulations structurally trapped in the Cambrian Mount Clark formation on Exploration License 437 in the Great Bear Plains area of the Northwest Territories of Canada based on modeled accumulations in the Colville Hills area.

GORE contracted PEREGRINE VENTURES INC. (PEREGRINE) to perform all field activities related to the sample installation and retrieval. TALISMAN arrange for all field support including snowmobiles, helicopter, fuel, lodging, meals and local helpers. Field documentation provided by PEREGRINE is provided in Appendix C. The PEREGRINE field teams installed GORE Module passive soil gas samplers on three hundred thirty four (334) grid locations in the survey area and eighteen (18) samplers along a transect in Colville Hills area. In addition to the grid samples, PEREGRINE installed forty four (44) geochemical samples at the three model well sites. Model sites, model objective, location coordinates and relevant comments are summarized below. Additional background information provided by TALISMAN appears in Appendix D, “Customer-Supplied Information”.

Model ID	Longitude*	Latitude*	Model Objective	Model Comments
Tweed Lake M47	125.904447 W	66.946274 N	GAS	Tested 5.5 mmcfd and 624 bcpd from Mt. Clark formation, Depth 1221-1236 meters, not under production
Tweed Lake C12	126.053403 W	67.017077 N	DRY	Drilled and abandoned, slight gas shows
Losh Lake	123.330925 W	65.855178 N	DRY	Drilled and abandoned, no gas shows

* NAD 83 Datum

Preprocessing of raw chemical output for all sample classes indicated the samples had acquired valid field signal, unrelated to sampler manufacturing, field transit or laboratory analytical conditions and the data were therefore fit for use in evaluating hydrocarbon prospectivity in the Great Bear Plains survey area.

For this project, both a “supervised” and an “unsupervised” modeling approach was adopted using a variety of statistical methods.

The following models were developed:

Tweed Lake M47 Gas Model

All samples from the Tweed Lake M47 gas well were used to define the general character of gas reservoir emanation at the surface. Similarly, all samples from the Tweed Lake C12 and Losh Lake dry wells were used to define “background” emanation character.

Cluster 13 Gas Model

The signature for Cluster 13 consisted primarily of light aliphatic hydrocarbons in the C₂ to C₇ range and therefore all samples from Cluster 13 were used to define the general character of gas emanation at the surface. Fourteen samples from the Losh Lake dry well were used to define “background” emanation character.

Cluster 7 Gas Model

The signature for Cluster 7 consisted primarily of light aliphatic hydrocarbons in the C₂ to C₆ range plus normal alkanes in the C₉ to C₁₅ range similar to those found at the Tweed Lake M47 well. Therefore all samples from Cluster 7 were used to define the general character of gas/condensate emanation at the surface. Fourteen samples from the Losh Lake dry well were used to define “background” emanation character.

Combined Clusters 7 and 13 Gas Model

All samples from Clusters 7 and 13 were used to define the general character of gas emanation at the surface. Fourteen samples from the Losh Lake dry well were used to define “background” emanation character.

The model was developed using the end-member sample sets to collectively define their respective “gas-like” and “background-like” emanation signatures in two-way discriminant analysis. This process produces a statistical separation of the end members, defining which principal component factors best discriminate or separate the centroids of the defined classes.

The results for the Tweed lake M47 gas-like model in Colville Hills identified a geochemical feature at least 3.5 kilometers long along the transect over the Tweed Lake field. The geochemical feature truncates along the transect 1.5 kilometers northeast of the Tweed Lake M47 gas well and appears to closely correlate with the Mt. Clark reservoir for Tweed Lake. In addition this model identified several potential large geochemical features in the EL 437 survey area which is located two hundred kilometers to the southeast.

The results for the various Cluster gas-like models detected several geochemical features which correspond with the geochemical features for the Tweed Lake M47 gas-like model. This correlation is understandable since the signatures of the Cluster 7 samples and Tweed Lake M47 samples are very similar. This also indicates that the Tweed Lake M47 well in Colville Hills, although 200 kilometers away, is most likely a valid model for the Great Bear Plains area.

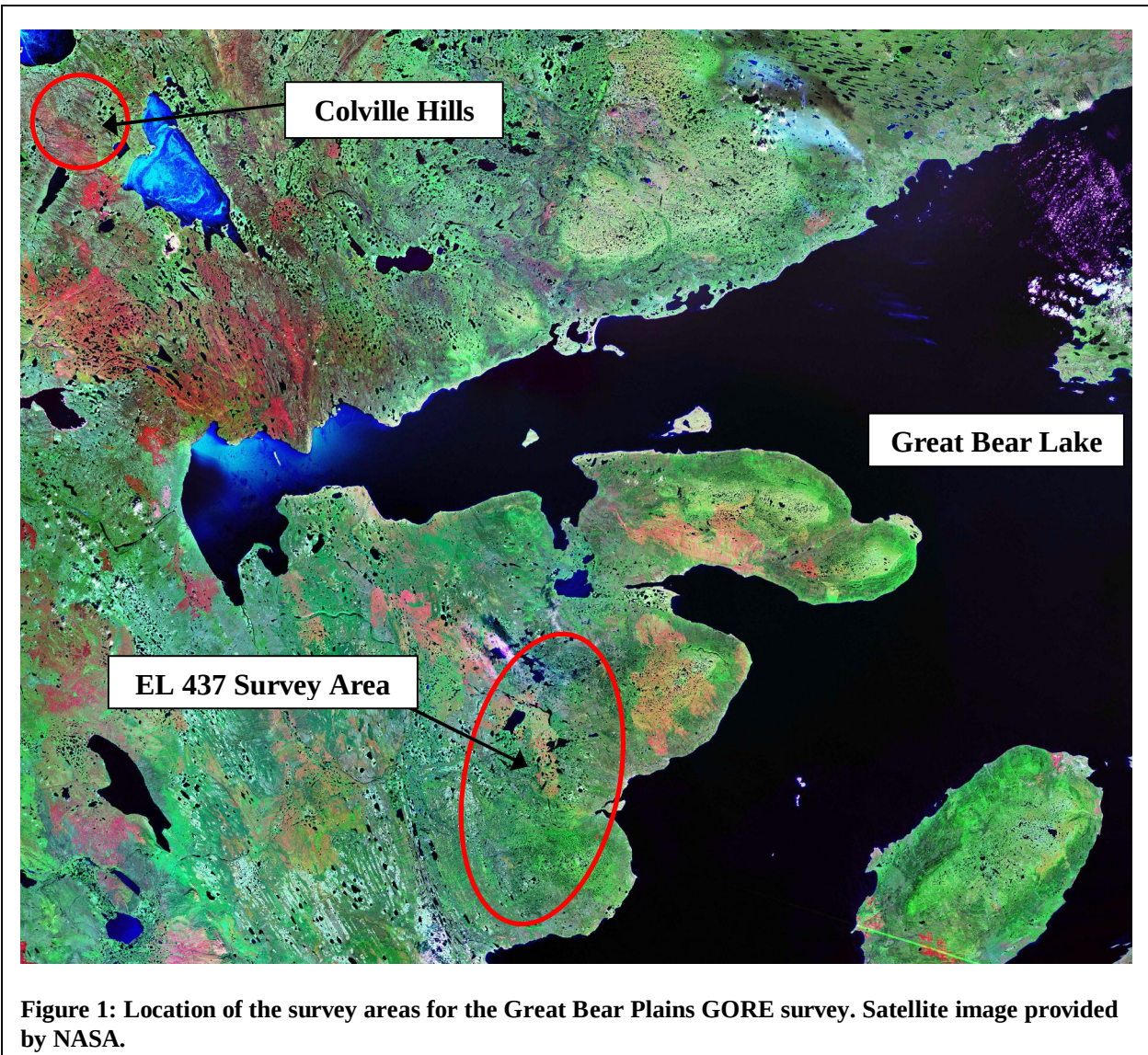
In summary, these results indicate that the EL 437 survey area has potential reservoired hydrocarbons similar to those found in the Mt. Clark formation in Colville Hills. These results also

indicate that the northern part of the survey area and the southern transect are mostly similar to background. All of the geochemical features identified in the various models are located along transects. Therefore the size and shape of any hydrocarbon reservoir that it may represent are not defined. Additional sampling will be needed to determine the extents of the geochemical features in this area. This data can be integrated with future GORE Surveys in the same area if additional sampling is performed.

Geochemical features detected in this survey can be related to the formation(s) of interest or possibly to either shallower or deeper formations in the Great Bear Basin that contain hydrocarbons. Therefore, realistic appraisal of the model result, in the context of its utility for exploration activity in this part of Canada, will require an integrated analysis of available seismic data and rigorous geological interpretation by TALISMAN. Clearly, the extent to which the results of this geochemical survey assist further exploration efforts depends to a large degree on the quality and confidence in other exploration and geological control data with which it will be integrated.

1.0 INTRODUCTION & BACKGROUND

TALISMAN ENERGY INC. (TALISMAN) contracted W. L. GORE & ASSOCIATES (GORE) to conduct a GORE™ Survey for Exploration over an area identified as Great Bear Plains (Exploration License 437) in the Northwest Territories in Canada. The survey area was located in the Great Bear Basin, a shallow Cretaceous basin overlaying lower Paleozoic strata. The location of the EL 437 survey area and the Colville Hills model template are shown on a satellite image in Figure 1. The Cambrian Mount Clark formation was the target sandstone reservoir for this area.



The GORE Survey for Exploration method is an advanced surface geochemical prospecting tool capable of directly detecting and quantifying many organic compounds in the C₂ (ethane) to C₂₀ (phytane) range. Geochemical anomalies are based on the distinction between complex surface geochemical signatures (using pattern recognition techniques) over reservoir and background

areas rather than measurement of individual or compound suite intensities. When properly integrated with other exploration information (seismic time-depth maps, petroleum system data, geological and petrophysical interpretations), the GORE Survey for Exploration can assist in the reduction of exploration risk. For a general description of this surface geochemical exploration technique, refer to Appendix B, “GORE™ Survey for Exploration Surface Geochemical Sampling System”.

2.0 SURVEY OBJECTIVE

The purpose of the surface geochemical survey was to determine the probability of significant hydrocarbon accumulations structurally trapped in the Cambrian Mount Clark formation on Exploration License 437 in the Great Bear Plains area of the Northwest Territories of Canada based on modeled accumulations in the Colville Hills area.

Three wells were selected for acquisition of model calibration samples for the survey. The Tweed Lake M47 well was used to acquire a gas signature from the Mount Clark formation in Colville Hills. The Tweed Lake C12 and Losh Lake dry wells were used to acquire a background emanation signature over both the Colville Hills area and the survey area.

Geologic information provided by TALISMAN for the Great Bear Basin, EL-437, and the model wells are listed in Appendix D, “Customer-Supplied Information”.

To achieve the objective, the following tasks were performed:

1. *Field sample acquisition* using the GORE Module passive soil gas collector. Samples were emplaced at a depth of approximately 50-60 centimeters, left in place for a period of 14 to 19 days and subsequently retrieved.
2. *Model sample acquisition* using the GORE Module passive soil gas collector. Samples were placed near selected petroliferous and background wells/sites, again at a depth of approximately 50-60 centimeters. These samples were left in place for a period of 14 to 16 days and subsequently retrieved.
3. *Laboratory analysis using gas chromatography and mass selective detection (GC/MS)*, of all survey area samples and quality assurance and quality control samples.
4. *Data pre-processing*, to remove extraneous noise variables and compromised samples, and determination of data fitness for use with linear discriminant analysis.
5. *Data Processing and Model Development*. The raw chemical data space was transformed to factor space using principal components analysis, helping to isolate geochemical patterns in the data set. Transformed data were input into Discriminant Analysis to determine the geochemical differences between the end-member model sets and simultaneously compare all survey sample analytical results to the signatures of the geochemical models. The result of

this process was a probability value, indicating whether a given field sample was more geochemically similar to the selected hydrocarbon model site (a high value), or more similar to the character of the selected dry well or background site(s) (a low value).

For more information on the concepts and process of geochemical modeling and the use of discriminant analysis with this geochemical data, refer to Appendix B, “GORE™ Survey for Exploration Surface Geochemical Sampling System”.

3.0 SURVEY DESIGN AND FIELD WORK

The GORE Survey for Exploration sampling scheme was designed by TALISMAN to provide regional coverage over a part of EL 437 in the Great Bear Plains area. The samples were taken along transects with samples spaced approximately 250 to 500 meters apart. In addition to survey grid samples, three wells were chosen for the purpose of acquiring surface geochemical signatures of microseepage emanation over a gas reservoir and dry hole/background locations. These three model sets form the foundation of the geochemical modeling process and differentiate gas-like surface emanation from background-like surface emanation.

GORE contracted PEREGRINE VENTURES INC. (PEREGRINE) to perform all field activities related to the sample installation and retrieval. TALISMAN arrange for all field support including snowmobiles, helicopter, fuel, lodging, meals and local helpers. Field documentation provided by PEREGRINE is provided in Appendix C. The PEREGRINE field teams installed GORE Module passive soil gas samplers on three hundred thirty four (334) grid locations in the survey area and eighteen (18) samplers along a transect in Colville Hills area. In addition to the grid samples, PEREGRINE installed forty four (44) geochemical samples at the three model well sites. Model sites, model objective, location coordinates and relevant comments are summarized in Table 1. Additional background information provided by TALISMAN appears in Appendix D, “Customer-Supplied Information”.

TABLE 1

Model ID	Longitude*	Latitude*	Model Objective	Model Comments
Tweed Lake M47	125.904447 W	66.946274 N	GAS	Tested 5.5 mmcf/d and 624 bc/d from Mt. Clark formation, Depth 1221-1236 meters, not under production
Tweed Lake C12	126.053403 W	67.017077 N	DRY	Drilled and abandoned, slight gas shows
Losh Lake	123.330925 W	65.855178 N	DRY	Drilled and abandoned, no gas shows

* NAD 83 Datum

At each sample location the associated module serial number was recorded and sampler location coordinates (in UTM Zone 10 relative to the NAD 83 datum) were acquired by PEREGRINE in the field using hand-held global positioning system (GPS) receivers. The sample location coordinates are included in Appendix A, “Model Input Information and Probability Values Summary”, and in Appendix C, “Field Documentation and Survey Sampler Information”. Field

operations were conducted during the time period between 21st February 2007 and 29th March 2007.

Of the 352 survey grid samplers and 44 geochemical model samplers installed by PEREGRINE, 344 grid and all 43 model samples were recovered. A full reconciliation summary for all samples is provided in Appendix C.

4.0 SAMPLE INSPECTION AND QA/QC ANALYSIS

4.1 Sample Inspection

All GORE passive soil gas modules were inspected upon receipt at the GORE laboratory in Elkton, Maryland, USA. Among the conditions checked were sampler container seal integrity, condition of the samplers, and proper sequence of sampler numbers. All samples were found to be in good order and subsequently were randomized during check-in in preparation for analytical sequencing.

Field installation and retrieval documentation (paper and electronic formats) received from PEREGRINE was also reviewed during the reconciliation and data processing functions. A full sample reconciliation summary is provided in Appendix C.

Once scheduled for analysis, the samples were prepared and loaded as needed. Laboratory analysis of the samplers was performed, using gas chromatographic separation and mass selective detection (GC/MS), for 85 compounds according to procedures and methods developed by GORE specifically for use with GORE Survey for Exploration. Analytical QA/QC includes analysis of reference standards for all target compounds, as well as regular analysis of method and instrument blanks. These procedures and methods are discussed in Appendix B, “GORE Survey for Exploration, Surface Geochemical Sampling System”. The complete compound list is shown in Table 2, Analytical Compound List by Compound Class.

Table 2: Analytical Compound List by Compound Class

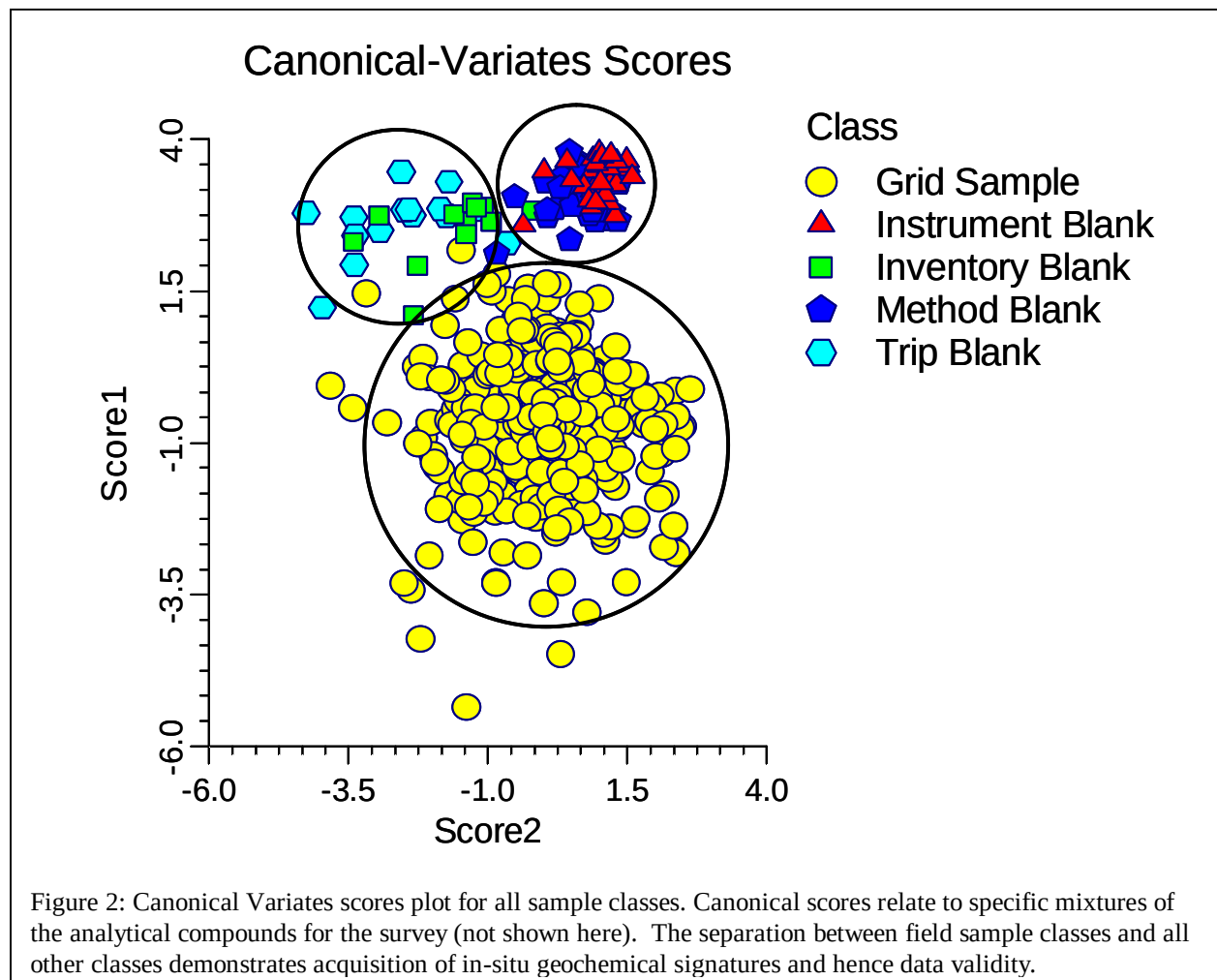
Typical Petroleum Constituents Hydrocarbon number in ()			
Normal Alkanes	Iso-alkanes	Cyclic Alkanes	Aromatics and PAH*
Ethane (2)	2-Methylbutane (5)	Cyclopentane (5)	Benzene (6)
Propane (3)	2-Methylpentane (6)	Methylcyclopentane (6)	Toluene (7)
Butane (4)	3-Methylpentane (6)	Cyclohexane (6)	Ethylbenzene (8)
Pentane (5)	2,4-Dimethylpentane (7)	cis-1,3-	m,p-Xylenes (8)
Hexane (6)	2-Methylhexane (7)	Dimethylcyclopentane (7)	o-Xylene (8)
Heptane (7)	3-Methylhexane (7)	trans-1,3-	Propylbenzene (9)
Octane (8)	2,5-Dimethylhexane (8)	Dimethylcyclopentane (7)	1-Ethyl-2/3-methylbenzene (9)
Nonane (9)	3-Methylheptane (8)	trans-1,2-	1,3,5-Trimethylbenzene (9)
Decane (10)	2,6-Dimethylheptane (9)	Dimethylcyclopentane (7)	1-Ethyl-4-methylbenzene (9)
Undecane (11)	Pristane (19)	Methylcyclohexane (7)	1,2,4-Trimethylbenzene (9)
Dodecane (12)	Phytane (20)	Cycloheptane (7)	Indane (9)
Tridecane (13)		cis-1,3/1,4-	Indene (9)
Tetradecane (14)		Dimethylcyclohexane (8)	Butylbenzene (10)
Pentadecane (15)		cis-1,2-	1,2,4,5-Tetramethylbenzene (10)
Hexadecane (16)		Dimethylcyclohexane (8)	Naphthalene (10)
Heptadecane (17)		trans-1,3/1,4-	2-Methylnaphthalene (11)
Octadecane (18)		Dimethylcyclohexane (8)	
		trans-1,2-	
		Dimethylcyclohexane (8)	
		Ethylcyclohexane (8)	
		Cyclooctane (8)	
		Propylcyclohexane (9)	
Byproduct / Alteration and Other Compounds			
Alkenes	Aldehydes	Biogenic	NSO* and Other Compounds
Ethene (2)	Octanal (8)	alpha-Pinene	Furan
Propene (3)	Nonanal (9)	beta-Pinene	2-Methylfuran
1-Butene (4)	Decanal (10)	Camphor	Carbon Disulfide
1-Pentene (5)		Caryophyllene	Benzofuran
1-Hexene (6)			Benzothiazole
1-Heptene (7)			Acenaphthylene
1-Octene (8)			Carbonyl Sulfide
1-Nonene (9)			Dimethylsulfide
1-Decene (10)			Dimethyldisulfide
1-Undecene (11)			

*PAH = polyaromatic hydrocarbons, NSO = nitrogen, sulfur, oxygen compounds

4.2 QA/QC Analysis

Following completion of laboratory analysis and data reduction, and prior to any data pre-processing, a comparison between the raw chemical data collected from the grid and model site locations (collectively known as “grid samples”) and the various categories of quality assurance / quality control blanks was done using canonical variates analysis. The objective of this comparison was to evaluate, on a gross scale, whether there was significant difference in signature

between the various classes of field samplers and QA/QC blanks with respect to the measured compound data. Separation of class centroids is necessary to demonstrate that the field sample signal content is not a function of sample manufacture, exposure to a trip-related event, or a laboratory-induced artifact. The comparison is shown graphically in Figure 2 in the form of canonical scores plots for each sample and each sampler class. For this comparison, the canonical plot for variate score 1 vs. variate score 2 were selected to demonstrate the inherent difference between the various sampler classes. The canonical-variate scores relate to specific mixtures of target compounds.



Instrument blank class data represents analytical data recorded with no sample inserted in the GC/MS instrument, and is meant to show the inherent instrument condition. The method blank class records the analysis of clean, isolated GORE Modules, and is meant to demonstrate analytical process conditions. The inventory blank class presents data for isolated “unused” samplers (retained in inventory at the laboratory but assigned to the project) from the same sample lot as those sent to the field. The trip blank class of data records the conditions present to the survey samples in transit to and from the field, and should be similar to the “inventory blank” sample class.

Figure 2 shows some significant features:

1. The plot shows that all of the blank classes are distinct from the field class, implying that the chemical signatures of the field class samples are not related to the instrument or analytical conditions.
2. The lack of separation of the cluster centroids of the trip blank class from the inventory class indicates that there was no transit-related effect in the samples.
3. The separation of the cluster centroids of the trip blank class from the field class (grid samples) indicates the field sampler classes contain valid signal that is not a transit-related effect, but is a result of exposure to the shallow subsurface environment.

As a result of this analysis, the sample data were deemed fit for use in further processing and geochemical model development.

Following canonical discriminant analysis, a review of the raw field sample signal output and the blank sample noise output (signal to noise analysis) for the chemical data is performed and certain chemical variables are disqualified, where appropriate. The following compounds listed in Table 3 were removed based on signal to noise and other QA/QC criteria.

TABLE 3
List of Signal to Noise Failed Compounds

Dimethyl Disulfide	1-Nonene	Octanal
Furan	o-Xylene	Benzofuran
1-Hexene	alpha-Pinene	Butylbenzene
Hexane	Propylbenzene	Nonanal
2-Methylfuran	1-Ethyl-2/3-methylbenzene	1,2,4,5-Tetramethylbenzene
Benzene	1,3,5-Trimethylbenzene	Camphor
1-Heptene	beta-Pinene	Decanal
Toluene	1-Ethyl-4-methylbenzene	Benzothiazole
Ethylbenzene	1-Decene	Caryophyllene
m,p-Xylenes	1,2,4-Trimethylbenzene	Acenaphthylene

Field installation and retrieval documentation was further evaluated to identify samples that may have undergone severe disturbance or tampering in the field. Again, where appropriate, these samples were removed from the data set.

The resulting data were then further processed using principal component analysis (PCA) to characterize the overall geochemical data space. This process transforms the data space such that each sample is no longer expressed relative to specific target compound axes (many of which might be correlated), but is expressed relative to sets of orthogonal (uncorrelated) factor axes. Specifically, PCA re-orientates the data along directions of variance in the data set (factor 1 is the direction of maximum variance, factor 2 is the second largest direction of variance constrained to be orthogonal to factor 1, and so on). PCA also aids further identification of chemical variable

and sample outliers that may need to be disqualified prior to model development. Outliers are removed and the data are re-processed. During sample reconciliation and PCA, the following sample issues were identified and are indicated in Table 4, as is the appropriate outcome.

TABLE 4
List of Disqualified Samples

Module #	Index #	Outcome
521269	347	Removed - Outlier in PCA
521591	387	Removed - Outlier in PCA
521783	3009	Removed - Outlier in PCA
521584	NA	Sample not Recovered in Field
521263	NA	Sample not Recovered in Field
521446	NA	Sample not Recovered in Field
521516	NA	Sample not Recovered in Field
521623	NA	Sample not Recovered in Field
521716	NA	Sample not Recovered in Field
521786	NA	Sample not Recovered in Field
521894	NA	Sample not Recovered in Field
521723	NA	Sample not Recovered in Field

The net output of the foregoing evaluation and processing steps is a statistical factor scores matrix, based on qualified chemical variables and field samples. Factor scores for each sample are used in the geochemical modeling steps.

5.0 GEOCHEMICAL DATA INTERPRETATION STRATEGY

Hydrocarbon compounds exist naturally in the soil gas environment even in areas without petroleum accumulations. The geochemical variations in soil gas data that distinguish subsurface sources of hydrocarbons from surface sources of hydrocarbons are often subtle and may be difficult to identify visually. Therefore, soil gas data are processed statistically using mathematic transformation and classification algorithms such as Principal Components Analysis (PCA), Hierarchical Cluster Analysis (HCA), and Linear Discriminant Analysis (LDA). For brief descriptions of these methods as applied to the evaluation of soil gas data, refer to Appendix B, “GORE™ Survey for Exploration”.

The objective of GORE geochemical data interpretation is to identify areas of petroleum emanation from subsurface accumulations (oil, condensate or gas). This is accomplished by the geochemical modeling, a process developed by GORE specifically for use with GORE™ Survey data. The geochemical modeling process may involve defining the character of petroleum hydrocarbon and background soil gas signatures at several “known” locations, or model well sites. Petroleum production wells from the same geological setting as the survey area, not depleted and as near to original pressure conditions as possible, are the best candidates for modeling petroliferous character. Dry well sites with absolutely no detected hydrocarbons in the stratigraphic column are the best candidates for modeling geochemical background. Typically 15 samples are used at each model site to sample the geochemical variability of the influence of

interest. Model well sites are in essence geochemical calibration areas, where appropriate reservoir conditions are known to exist or to be absent. The surface geochemical signatures obtained from such areas are used in the supervised classification of all survey samples.

If suitable model well sites are not available or non-existent in the survey region, it is possible to develop the required geochemical calibration using survey samples directly. In this case, cluster analysis techniques are applied to the survey data as a whole, and the cluster results are evaluated for evidence of petroleum influence. This is the usual interpretation strategy for surveys conducted in frontier areas and during initial concession block assessments.

Three calibration sites were selected for geochemical sampling for this project, including two dry well sites and one gas discovery well site. The role of these wells in the interpretation process is discussed below.

The Tweed Lake M47 gas discovery well was intended to be the gas calibration site for this survey. It is the closest gas discovery to the survey area, but this is a distance of approximately 200 kilometers. Although the Colville Hills area, where the Tweed Lake M47 gas well is located, has similar geology and source rock to the survey area there is some uncertainty if applying this gas discovery as a template for the survey area is appropriate. Changes in lithology and source rock chemistry can affect the chemical makeup of gas and oil over long distances.

The Tweed Lake C12 dry well site was intended to be a calibration model for background in the Colville Hills area. This well is also located approximately 200 kilometers away from the survey area but is located only ten kilometers from the Tweed Lake M47 gas discovery well.

The Losh Lake dry well site was intended to be a calibration model for background. It is the closest dry hole with no shows of hydrocarbons, located approximately 25 kilometers north of the survey area.

Based on this geological and model information the interpretation strategy was to:

1. Process the data using PCA.
2. Use LDA to make a geochemical model of gas based on the Tweed Lake M47 well as the gas end-member versus the Tweed Lake C12 and Losh Lake dry wells as the background end-member.
3. Compare the results of this geochemical model to the eighteen sample transect which passes through the Tweed lake M47 well and integrate this with geological information to determine if the model is valid for Colville Hills.
4. Use the results of the Tweed Lake M47 model to make a map of gas-like distribution for the EL 437 survey area.
5. Use cluster analysis and LDA including only the samples placed in the EL 437 survey area and Losh Lake to determine hydrocarbon signatures and regional background character. Map the resulting gas-like probabilities.

6. Compare the hydrocarbon signature and map derived from cluster analysis to the results obtained using the Tweed Lake M47 gas well.

6.0 SURVEY RESULTS

Discussion of the geochemical models developed for the Great Bear Plains survey area and a brief description of significant geochemical anomalies identified are given in the sections below. It is important to realize that the results of geochemical modeling are empirical; they are a function of, and are defined only with respect to the specific data of this survey. Moreover, hydrocarbon compounds may appear in the profile of geochemical background character, meaning that not every hydrocarbon compound will correlate with the occurrence of petroleum accumulations. The geochemical modeling process is meant to identify those hydrocarbon compounds that correlate with “reservoir” character as defined by the selected model sets.

6.1 Model Development & Results

6.1.1 Development of “Supervised” Geochemical Model of Gas Emanation

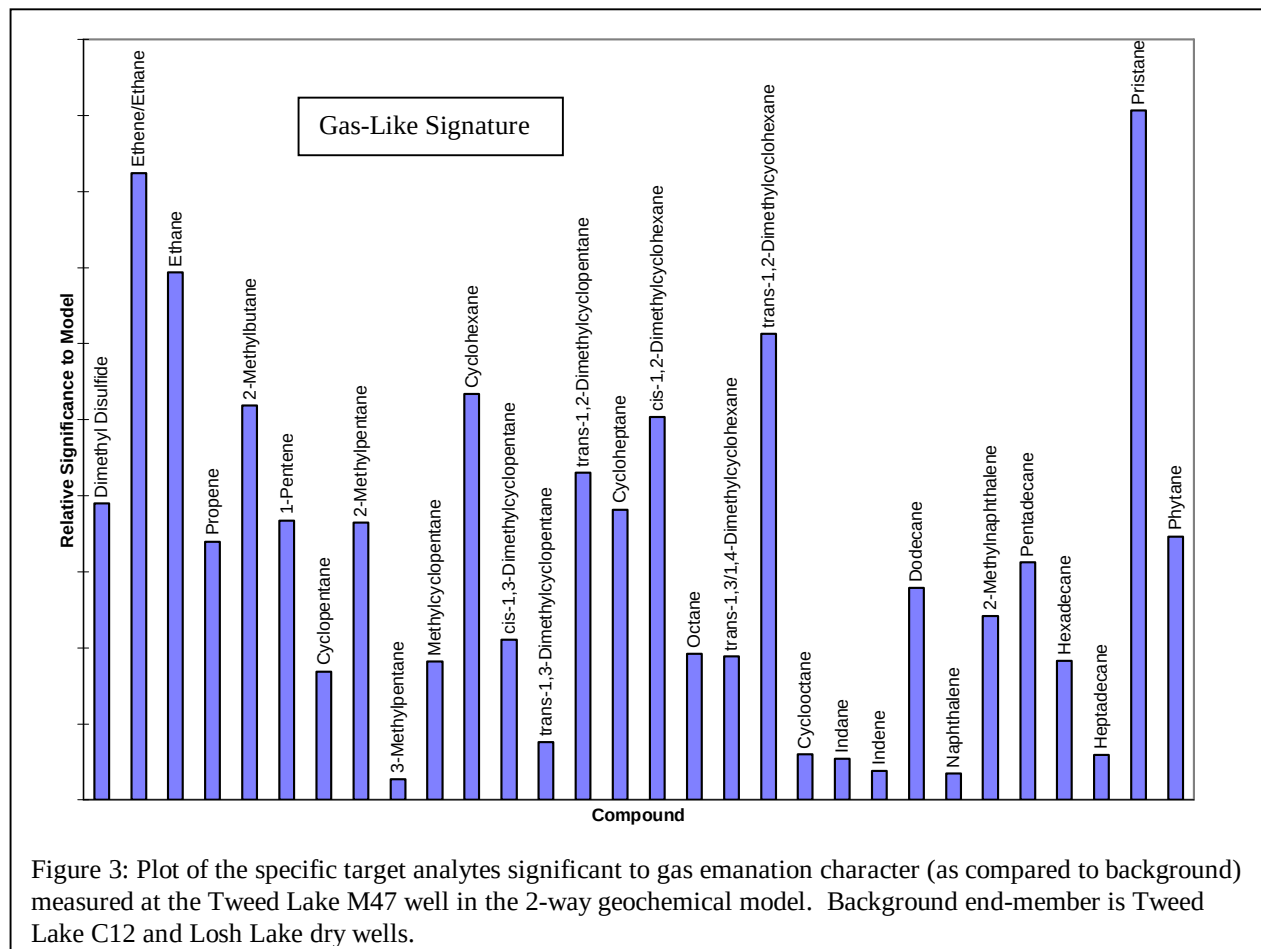
Geochemical model calibration samples were collected from three locations: one known to be directly above a charged gas reservoir, and two sites known to be devoid of hydrocarbon accumulations. Two-way modeling efforts were used to define the gas signature from the background signature and the following model was developed:

Tweed Lake M47 Gas Model

All samples from the Tweed Lake M47 gas well were used to define the general character of gas reservoir emanation at the surface. Similarly, all samples from the Tweed Lake C12 and Losh Lake dry wells were used to define “background” emanation character.

The model was developed using the end-member sample sets to collectively define their respective “gas-like” and “background-like” emanation signatures in two-way discriminant analysis. This process produces a statistical separation of the end members, defining which principal component factors best discriminate or separate the centroids of the defined classes.

The orientation (or vector) of maximum separation between the end-member centroids in the models can be related back to the original compound data axes by the factor loading values derived for each qualified organic compound in the target compound list. The correlation between this orientation and each compound was calculated for the samples of the two end-members and defines the geochemical model. The model can be viewed graphically to show which compounds are of most significance to end-member characters. However, for clarity only the compounds significant to the character of gas emanation are shown on the plot (Figure 3). The longer the plotted lines shown in the chart, the more significant is the compound to the overall signature of gas-like surface emanation character.



Tweed Lake M47 (Figure 3) appears to be geochemically stable and is a reasonable chemical expression for “gas” in our experience. The model is stable in the sense that the “gas character” is not a function of one compound only, or a small number of compounds isolated across the range of analysis. Such a condition is a sign of model instability, as isolated compounds or single compound occurrence is not thought to represent realistic geochemical source influence. The model consists of light and medium range aliphatic compounds (commonly associated with gas and condensate) in the C₂ to C₈ range; the C₁₅ and C₁₇ normal alkanes plus pristane and phytane.

6.1.2 Development of “Unsupervised” Geochemical Model of Gas Emanation

Hierarchical Cluster Analysis was applied to the samples collected in the EL 437 survey area and Losh Lake. Clusters 7 and 13 appeared to be highly correlated with principle components and their signatures exhibit characteristics similar to a gas signature. Clusters 15 and 17 had little correlation with principle components and their signatures exhibit characteristics similar to background. Of the fifteen samples placed around the Losh Lake dry hole, thirteen samples were in clusters 15 and 17. Figure 4 shows the dendrogram and the correlation of the clusters to the principle components. Plots of the signatures for clusters 15, 17, and Losh Lake are shown in

Figures 5, 6 and 7 as examples of background. Plots of signatures for clusters 7, 13 and Tweed Lake are shown in Figure 8, 9 and 10 as examples of gas or gas/condensate signatures.

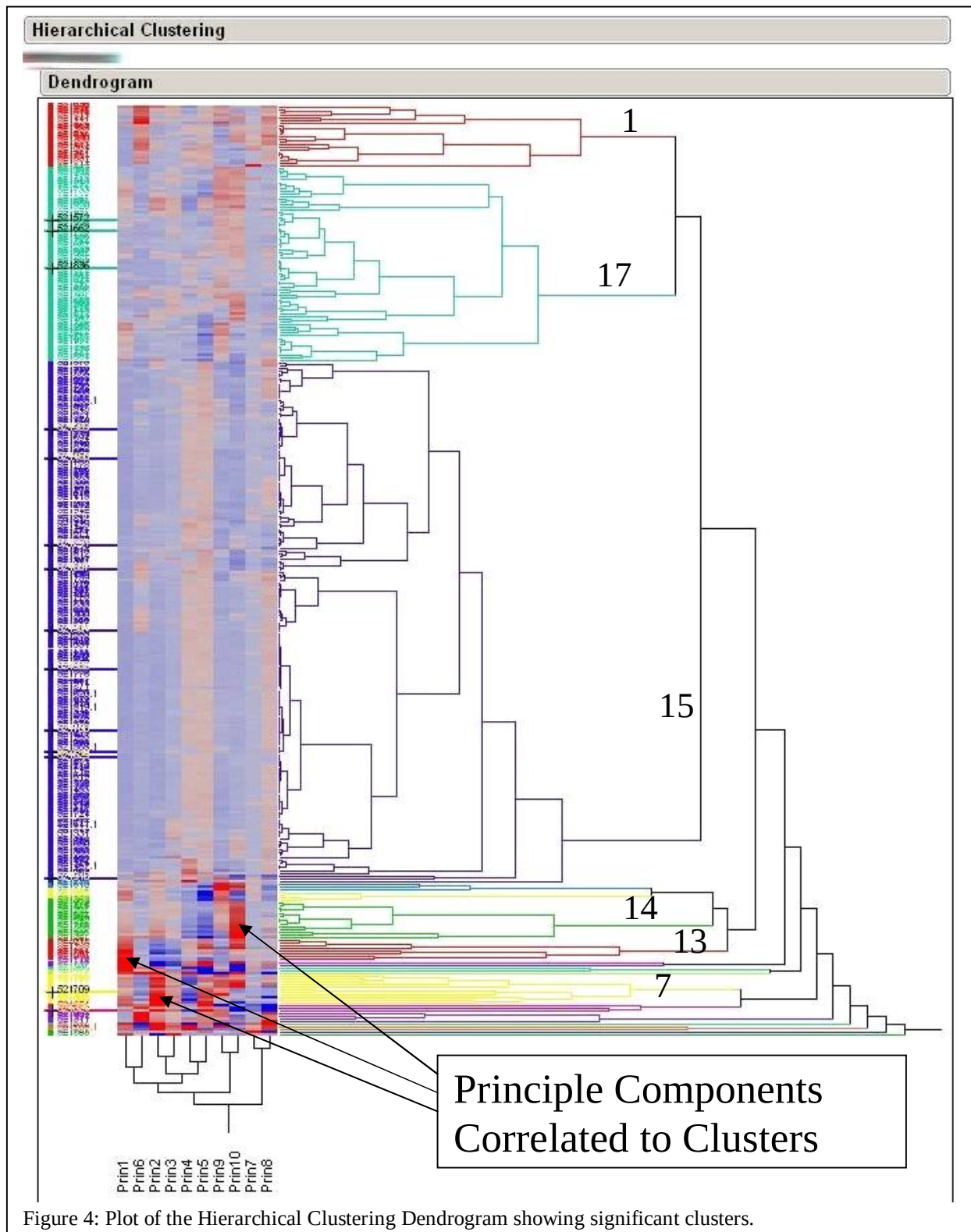


Figure 4: Plot of the Hierarchical Clustering Dendrogram showing significant clusters.

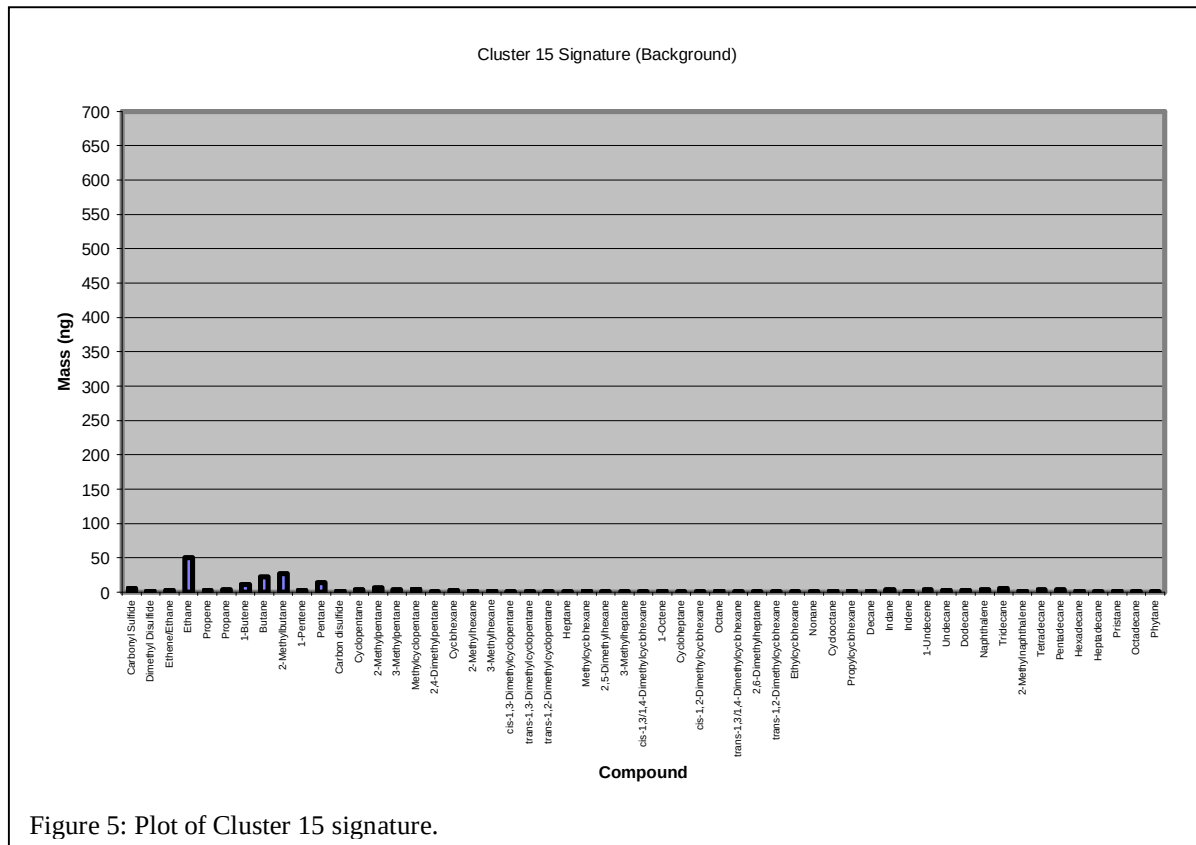


Figure 5: Plot of Cluster 15 signature.

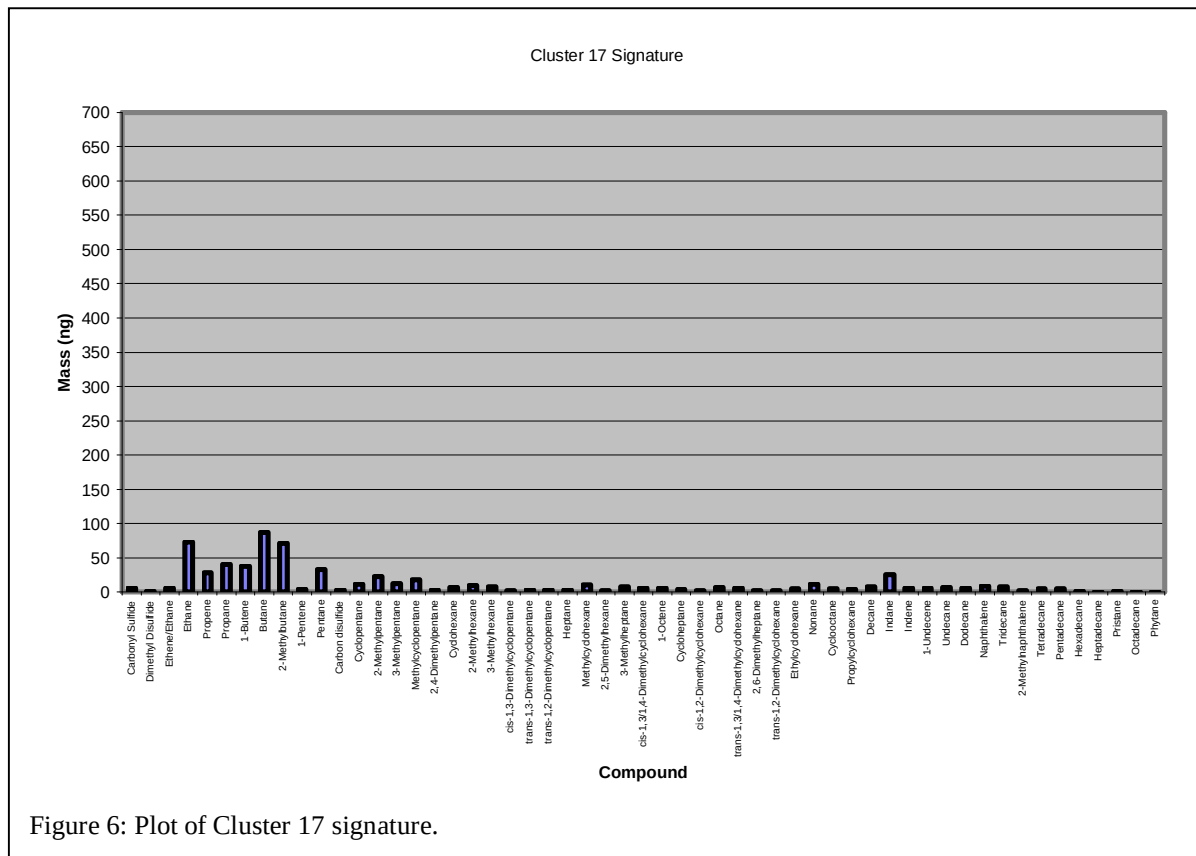


Figure 6: Plot of Cluster 17 signature.

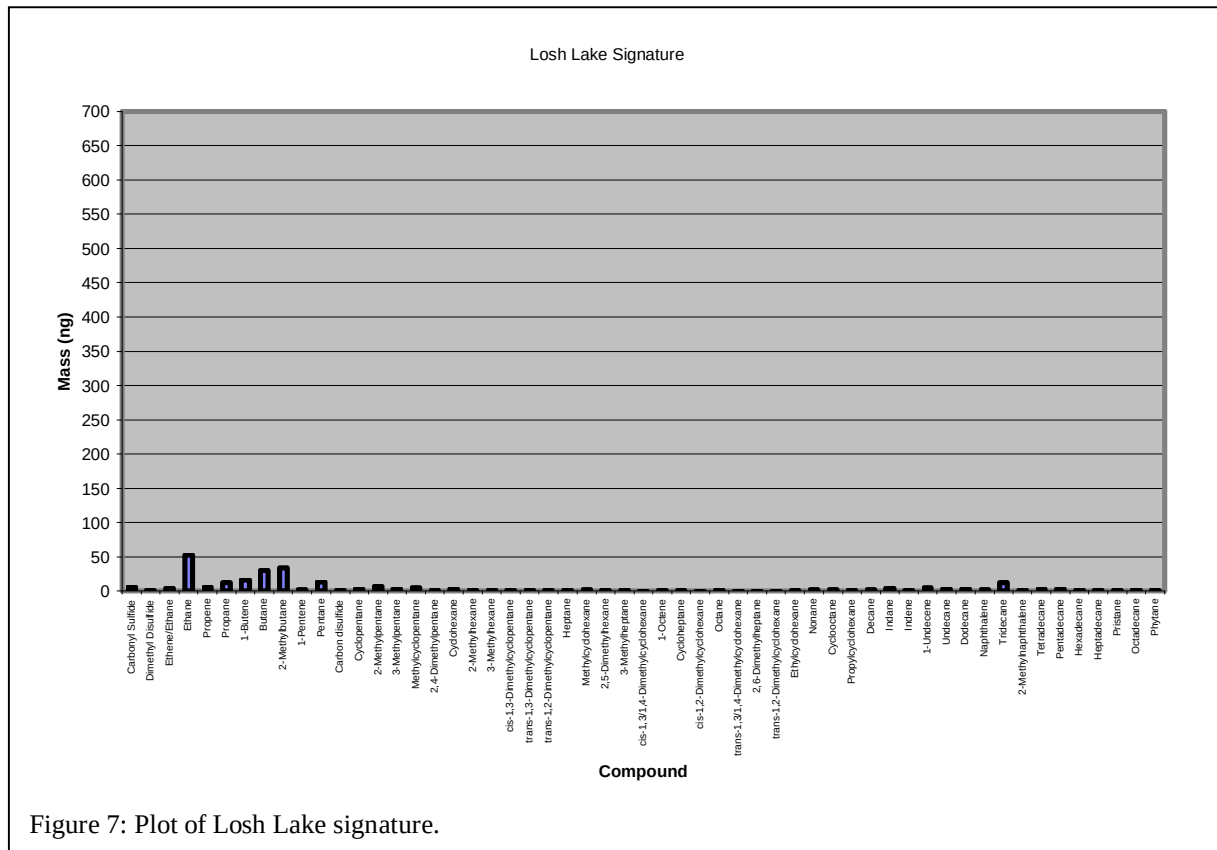


Figure 7: Plot of Losh Lake signature.

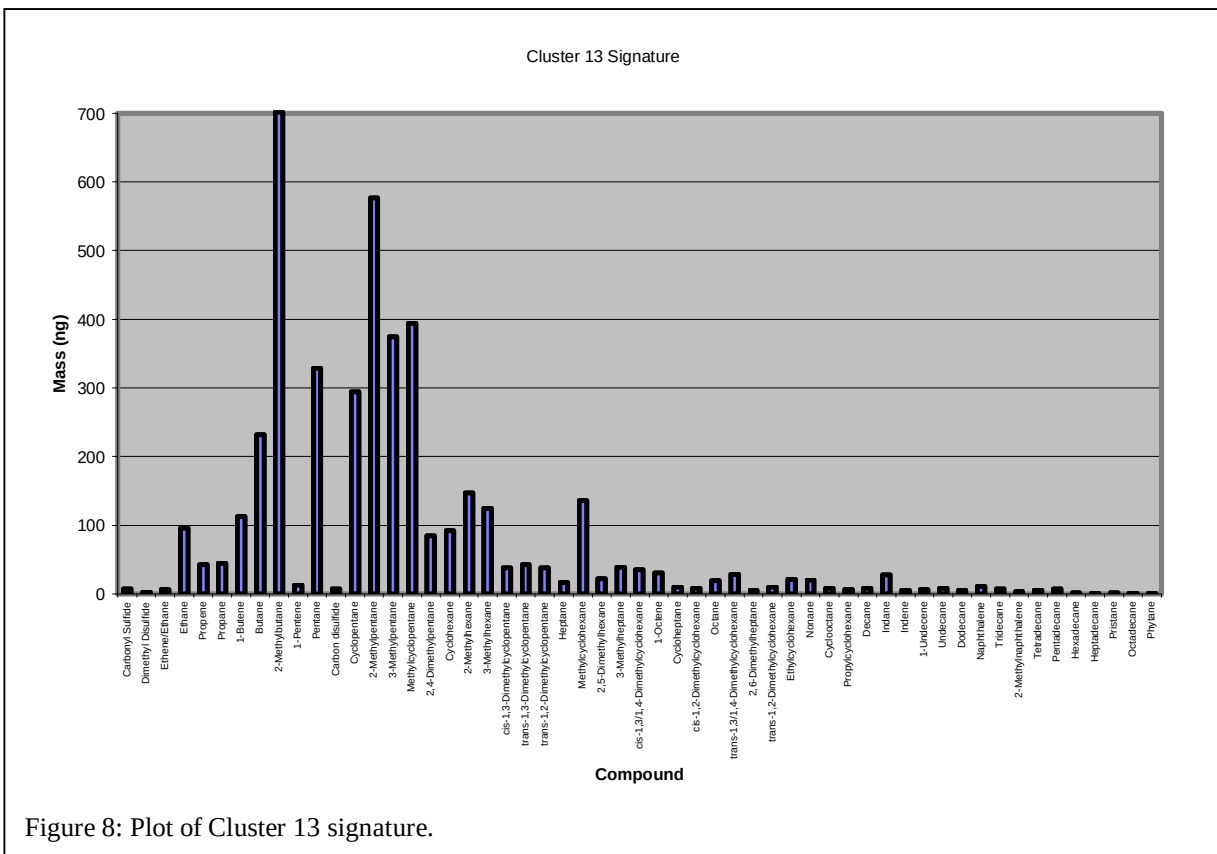


Figure 8: Plot of Cluster 13 signature.

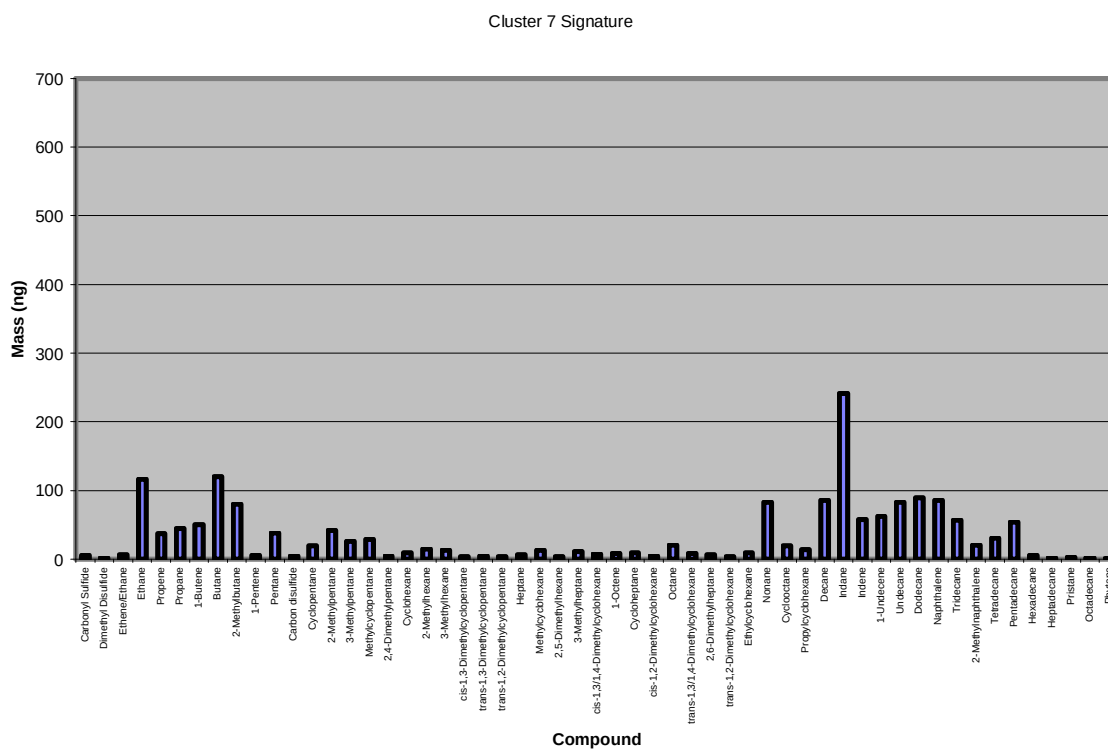


Figure 9: Plot of Cluster 7 signature.

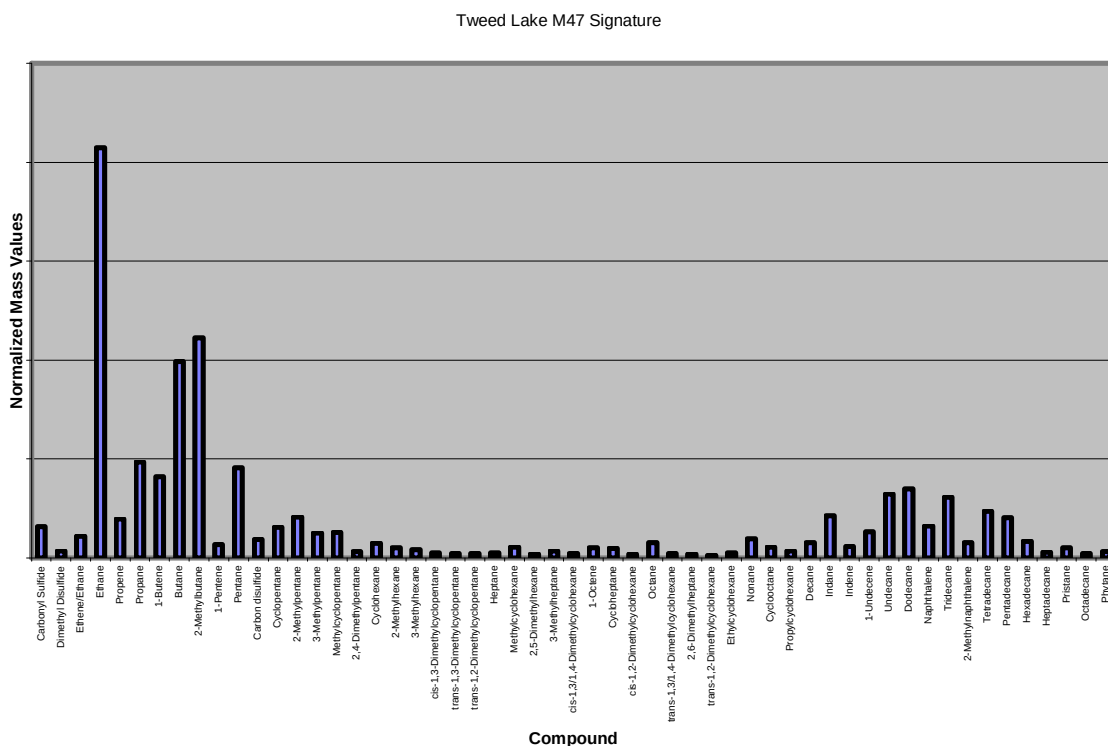


Figure 10: Plot of Tweed Lake M47 signature

Based on the known information for the Losh Lake dry hole and that thirteen of the fifteen samples placed around the Losh Lake well are included in the background clusters the samples from Losh Lake were used as the background end-member in all the cluster models. Two-way modeling efforts were used to define the gas signature, as defined by the different clusters, from the background signature and the following models was developed:

Cluster 13 Gas Model

The signature for Cluster 13 consisted primarily of light aliphatic hydrocarbons in the C₂ to C₇ range and therefore all samples from Cluster 13 were used to define the general character of gas emanation at the surface. Fourteen samples from the Losh Lake dry well were used to define “background” emanation character.

Cluster 7 Gas Model

The signature for Cluster 7 consisted primarily of light aliphatic hydrocarbons in the C₂ to C₆ range plus normal alkanes in the C₉ to C₁₅ range similar to those found at the Tweed Lake M47 well. Therefore all samples from Cluster 7 were used to define the general character of gas/condensate emanation at the surface. Fourteen samples from the Losh Lake dry well were used to define “background” emanation character.

Combined Clusters 7 and 13 Gas Model

All samples from Clusters 7 and 13 were used to define the general character of gas emanation at the surface. Fourteen samples from the Losh Lake dry well were used to define “background” emanation character.

All samples and their appropriate cluster designation are listed in Appendix A, “Model Probability Values Summary”.

6.1.3 Geochemical Results

During linear discriminant analysis each sample is classified with respect to its probability of membership to either end-member class. For a 2-way discriminant model this is done by mathematically projecting each sample onto the axis that separates the end-member class centroids, the centroids being determined by the specific samples used to define each class. The “dry” class centroid represents 0% probability of gas-like class membership and the “gas” class centroid represents 100% probability of gas-like class membership. Any sample that “projects” beyond the class centroid receives a probability value of either 0% or 100%. A simplistic illustration of this concept is shown below in Figure 11. Derived probability values for all samples relative to each model are given in Appendix A, “Model Probability Values Summary”.

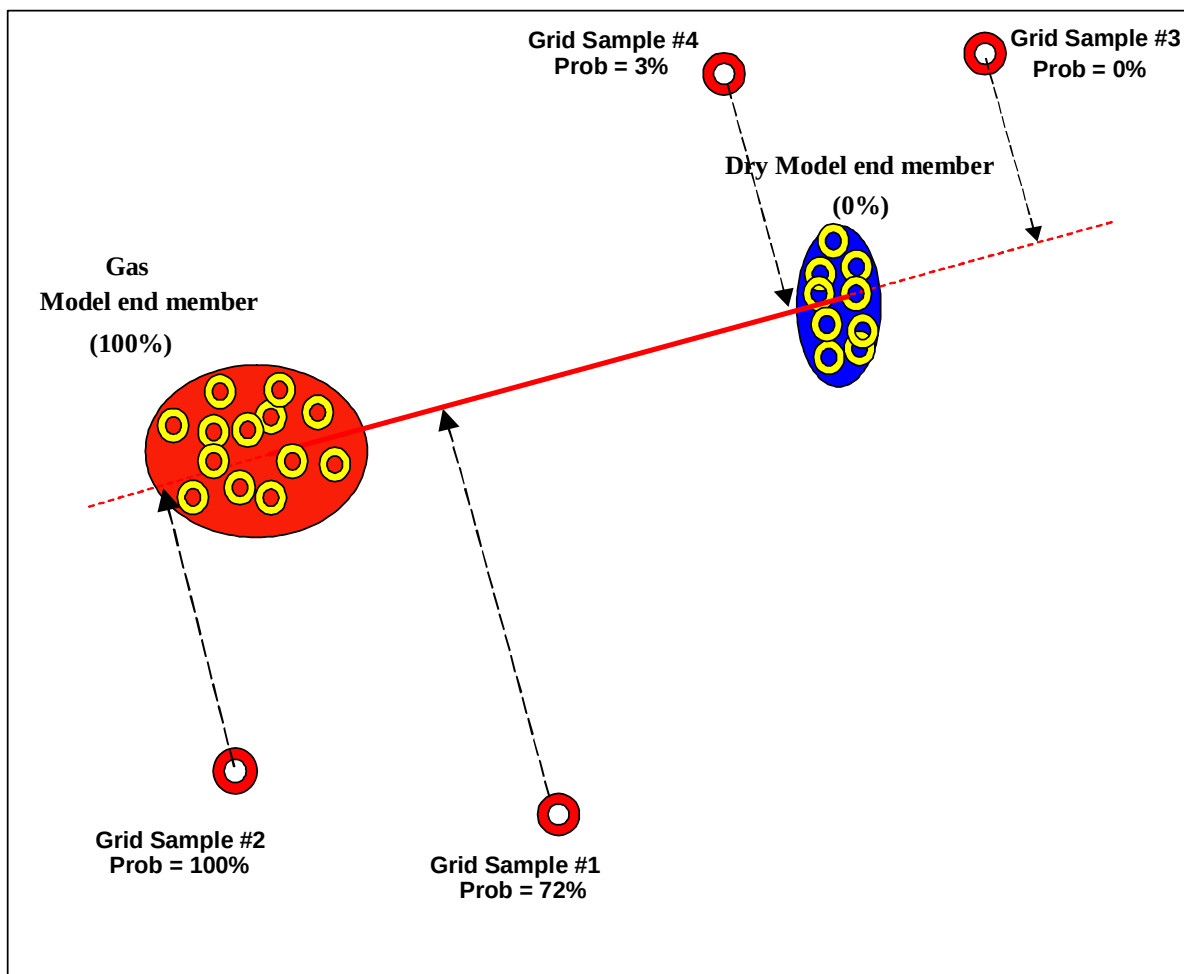


Figure 11: Schematic illustration of model class centroid separation as determined in discriminant analysis. Each sample is assigned a probability value by mathematical projection (black dashed arrows) onto the axis of

Important Notes:

- The contour surface developed between actual sampled locations is an estimate of the probability and is subject to uncertainty.
- The degree of uncertainty in this estimate will increase with distance from each sampled location.
- The interpolation of the data surface does not account for discontinuity or geological fabric within the survey area (such as faulting or other geological boundary conditions). The geological fabric may be apparent, however, if the sample density is sufficient to resolve it.

Probability values for the models are presented as color contour maps Plates 1 through 5. An image (not at actual scale) of the probability surface for the models of the Colville Hills and EL

437 survey areas are shown in Figures 12 through 16. These maps illustrate computer-generated contour surfaces of probability values calculated for each sample location. The configuration of the contoured surface is a function of the sampler spacing and density, as well as the probability values of the samples. When viewing the contoured data surfaces, it is important to realize that probability values are most accurate at the actual sampled locations.

High probability values indicate regions within the survey area that exhibit a similar character to the modeled gas reservoir production signature, as collectively defined by the input model samples. A geochemical feature, as referred to in this report, is defined as any collection of contoured probability values which seem to exhibit a common geochemical influence. General observations are summarized below (refer to Plates 1 through 5 and Appendix A).

The results for the Tweed Lake M47 gas-like model in Colville Hills identified a geochemical feature over the Tweed Lake field (Figure 12). The geochemical feature extends along a transect from 1.5 kilometers northeast of the Tweed Lake M47 gas well to 2 kilometers southwest of the well to the end of the transects. This 3.5 kilometer geochemical feature appears to correlate closely with the subsurface reservoir for Tweed Lake. The results for this same model applied to the EL 437 survey area identified several potential large geochemical features shown in Figure 13. These geochemical features may trend slightly NNW-SSE between transects but additional infill samples will be needed to determine this.

The results for the Cluster 13 gas-like model detected only two geochemical features, noted on Figure 14. The signature of this cluster was mostly like light gas with fewer of the higher C₉₊ compounds found in both the Tweed Lake model and in Cluster 7. The southern transect in this model as well as the northern part of the survey area are almost entirely similar to background.

The results for the Cluster 7 gas-like model are shown in Figure 15. Three geochemical features were detected and although smaller in size are located in the same area as the geochemical features on the Tweed Lake M47 model. This correlation is understandable since the signatures of Cluster 7 and Tweed Lake M47 are very similar. It also indicates that the Tweed Lake M47 well in Colville Hills, although 200 kilometers away, is most likely a valid model for the Great Bear Plains area. The area in the northern part of the survey area is mostly similar to background.

The results for the Combined Clusters 7 and 13 gas-like model are shown in Figure 16. Four prominent geochemical features were identified which closely correlate to the geochemical features identified in the Cluster 7 and Tweed Lake Models. As in all the other models, the area in the north part of the survey area is mostly similar to background.

All of the geochemical features identified in the various models are located along transects. Therefore the size and shape of any hydrocarbon reservoir that these may represent are not defined. Additional sampling will be needed to determine the extents of the geochemical features in this area. In order to give a more detailed geologic interpretation of the results the geochemical data needs to be integrated with other geological and geophysical information for the survey area.

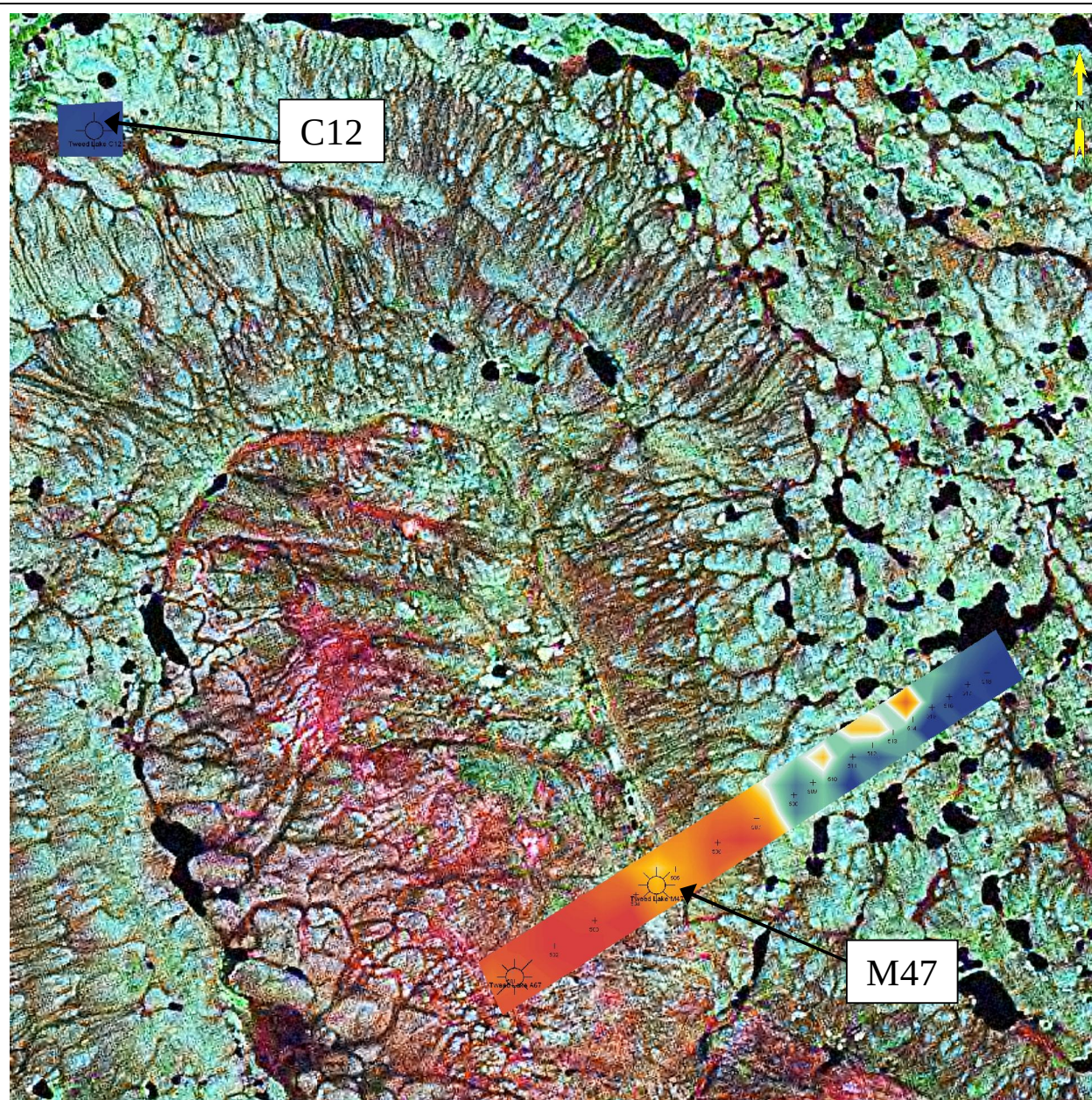


Figure 12: Tweed Lake M47 Gas-Like Probability Distributions, Colville Hills area.

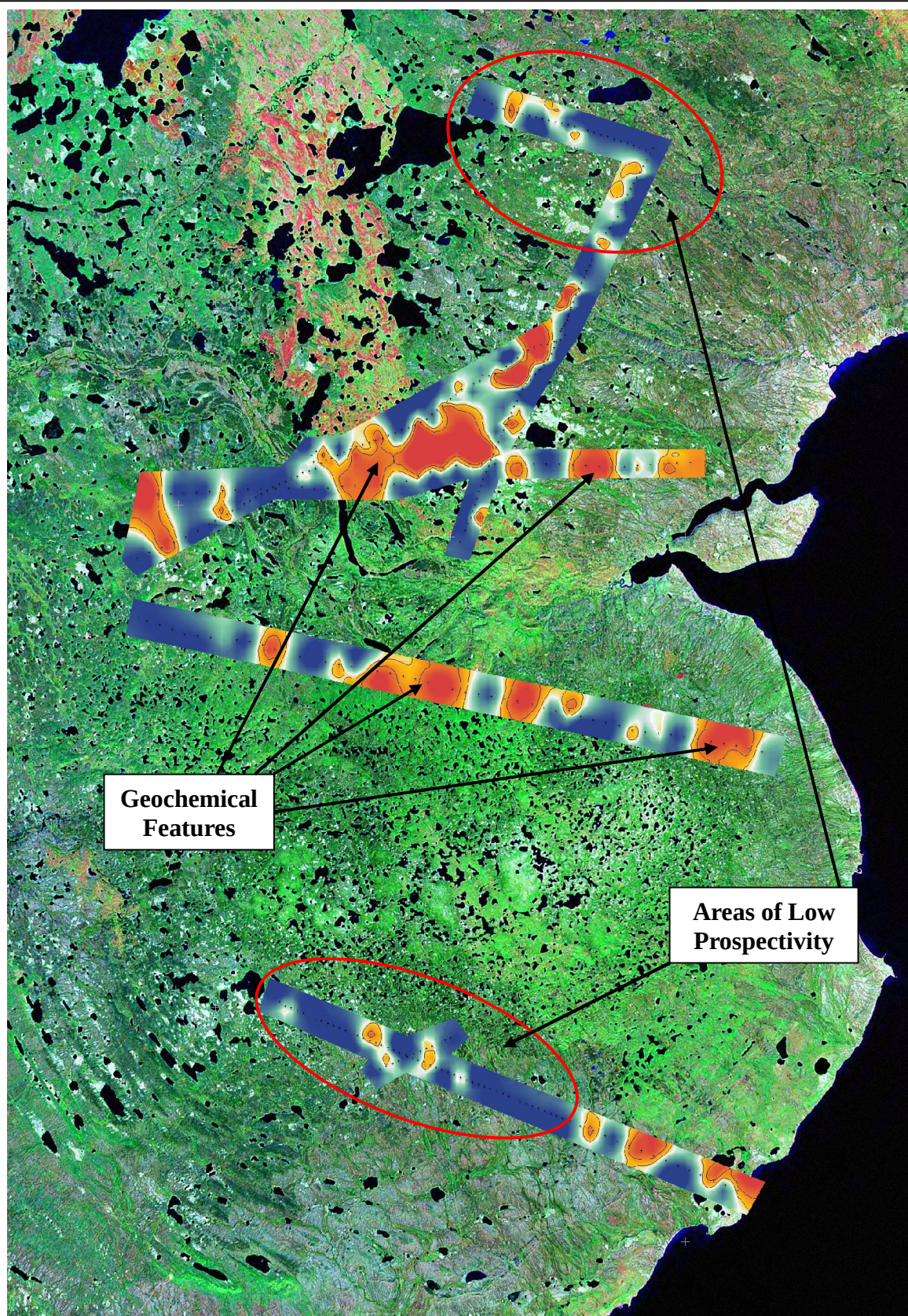


Figure 13: Tweed Lake M47 Gas-Like Probability Distributions, EL 437 area.

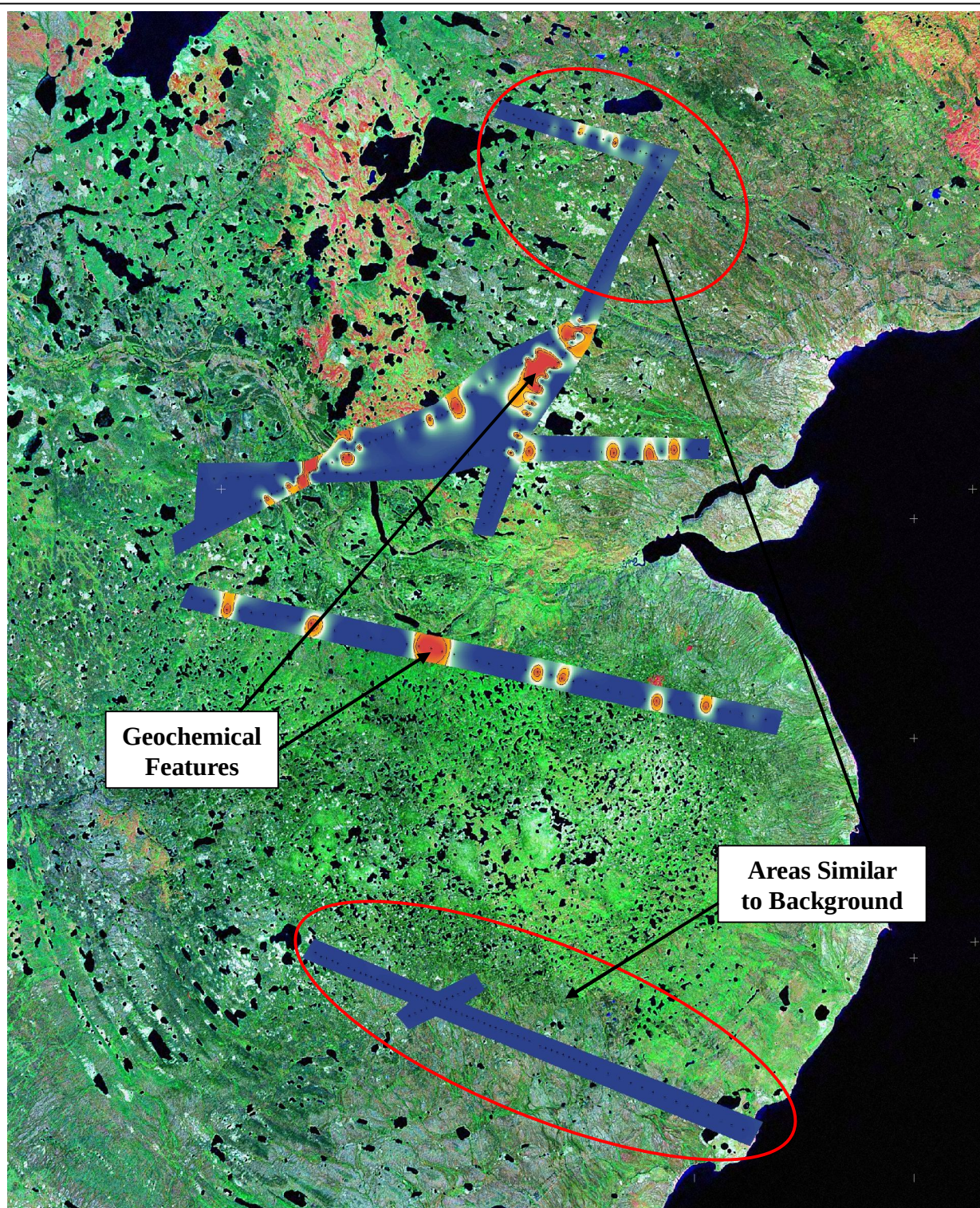
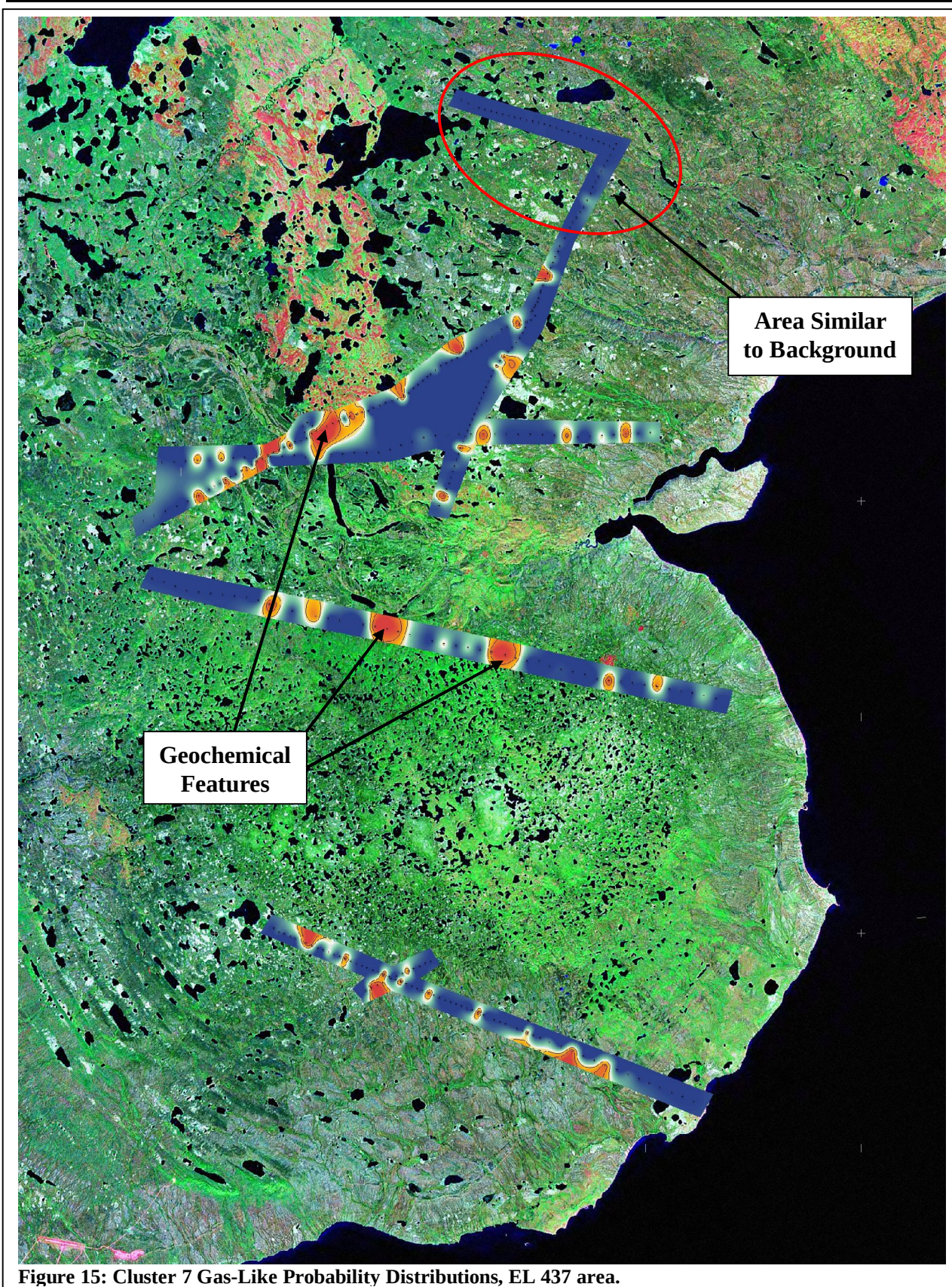


Figure 14: Cluster 13 Gas-Like Probability Distributions, EL 437 area.



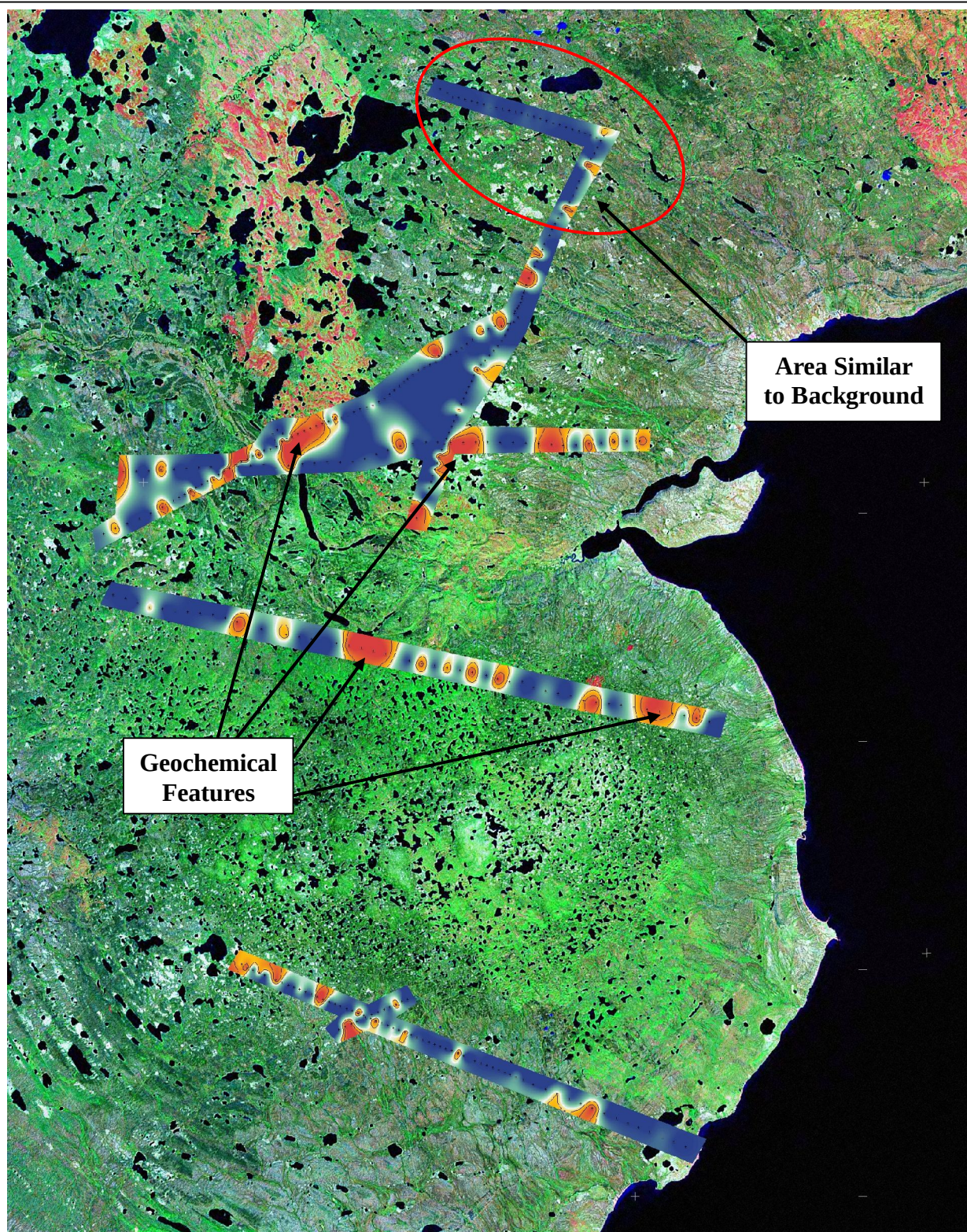


Figure 16: Combined Clusters 7 and 13 Gas-Like Probability Distributions, EL 437 area.

7.0 SUMMARY & CONCLUSIONS

The results of the GORE™ Survey for Exploration over an area identified as Great Bear Plains in the Northwest Territories in Canada are summarized below:

The purpose of the surface geochemical survey was to determine the probability of significant hydrocarbon accumulations structurally trapped in the Cambrian Mount Clark formation on Exploration License 437 in the Great Bear Plains area of the Northwest Territories of Canada based on modeled accumulations in the Colville Hills area.

Preprocessing of raw chemical output for all sample classes indicated the samples had acquired valid field signal, unrelated to sampler manufacturing, field transit or laboratory analytical conditions and the data were therefore fit for use in evaluating hydrocarbon prospectivity in the Great Bear Plains survey area.

For this project, both a “supervised” and an “unsupervised” modeling approach was adopted using a combination of PCA, LDA and HCA processing techniques.

The following models were developed:

Tweed Lake M47 Gas Model

All samples from the Tweed Lake M47 gas well were used to define the general character of gas reservoir emanation at the surface. Similarly, all samples from the Tweed Lake C12 and Losh Lake dry wells were used to define “background” emanation character.

Cluster 13 Gas Model

The signature for Cluster 13 consisted primarily of light aliphatic hydrocarbons in the C₂ to C₇ range and therefore all samples from Cluster 13 were used to define the general character of gas emanation at the surface. Fourteen samples from the Losh Lake dry well were used to define “background” emanation character.

Cluster 7 Gas Model

The signature for Cluster 7 consisted primarily of light aliphatic hydrocarbons in the C₂ to C₆ range plus normal alkanes in the C₉ to C₁₅ range similar to those found at the Tweed Lake M47 well. Therefore all samples from Cluster 7 were used to define the general character of gas/condensate emanation at the surface. Fourteen samples from the Losh Lake dry well were used to define “background” emanation character.

Combined Clusters 7 and 13 Gas Model

All samples from Clusters 7 and 13 were used to define the general character of gas emanation at the surface. Fourteen samples from the Losh Lake dry well were used to define “background” emanation character.

The models were developed using the end-member sample sets to collectively define their respective “gas-like” and “background-like” emanation signatures in two-way discriminant analysis. This process produces a statistical separation of the end members, defining which principal component factors best discriminate or separate the centroids of the defined classes.

The results for the Tweed lake M47 gas-like model in Colville Hills identified a geochemical feature at least 3.5 kilometers long along the transect over the Tweed Lake field. The geochemical feature truncates along the transect 1.5 kilometers northeast of the Tweed Lake M47 gas well and appears to closely correlate with the Mt. Clark reservoir for Tweed Lake. In addition this model identified several potential large geochemical features in the EL 437 survey area which is located two hundred kilometers to the southeast.

The results for the various Cluster gas-like models detected several geochemical features which appear to correspond with the geochemical features for the Tweed Lake M47 gas-like model. This correlation is understandable since the signatures of the Cluster 7 samples and Tweed Lake M47 samples are very similar. It also indicates that the Tweed Lake M47 well in Colville Hills, although 200 kilometers away, is most likely a valid model for the Great Bear Plains area.

In summary, these results indicate the following:

- The survey identified strong indications of gas with liquids in the central portion of the EL 437 survey area similar to the hydrocarbons modeled in the Mt. Clark formation at the Tweed Lake M47 well.
- The samples on the northern most transect and southern most transect in EL 437 are similar to background as defined by the Losh Lake well and indicates a very low probability of reservoired hydrocarbons. Additional work in these areas is not recommended.
- The model based on the Tweed Lake M47 well is a valid geochemical model for gas with liquids and is chemically similar to one of the models developed from the “unsupervised” cluster analysis of the data from EL 437.
- The Tweed Lake M47 model is a valid model for the EL 437 survey area even though it is located 200 kilometers away.
- Additional sampling is required to determine the aerial extents of the geochemical features in the central portion of EL 437 area. This is highly recommended.
- This survey data can be integrated with future GORE Surveys in the same area if additional sampling is performed.

Geochemical features detected in this survey can be related to the formation(s) of interest or possibly to either shallower or deeper formations in the Great Bear basin that contain hydrocarbons. Therefore, realistic appraisal of the model result, in the context of its utility for exploration activity in this part of Canada, will require an integrated analysis of available seismic data and rigorous geological interpretation by TALISMAN. Clearly, the extent to which the results of this geochemical survey assist further exploration efforts depends to a large degree on the quality and confidence in other exploration and geological control data with which it will be integrated.

APPENDIX A

1. Model Probability Values Summary



Probability Values for
Models.xls

[link to electronic file:]

Talisman Great Bear Plains Survey
Model Probability Values

Talisman Energy Inc.

13045661 EL437 NWT

Coordinates are UTM Zone 10 NAD 83 Datum

INDEX ID	MODULE #	Easting	Northing	Status	Cluster Group	Probability Value	Probability Value	Probability Value	Probability Value
						Model Tweed Lake M-47	Model Cluster 13	Model Cluster 7	Model Clusters 7 & 13
101	521630	489159	7244856	Grid	1	0	0	12	77
102	521502	488677	7245042	Grid	15	6	0	12	93
103	521938	489368	7244767	Grid	15	0	0	0	0
104	521706	488909	7244960	Grid	15	67	0	0	5
105	521574	488463	7245195	Grid	1	0	0	0	61
106	521557	490986	7244107	Grid	1	0	0	4	5
107	521882	491687	7243819	Grid	6	95	0	23	100
108	521449	491921	7243719	Grid	15	1	0	0	3
109	521454	492614	7243435	Grid	17	0	0	0	0
110	521993	491436	7243923	Grid	6	8	0	100	100
111	521487	490307	7244381	Grid	17	0	0	0	0
112	521396	490052	7244483	Grid	17	0	0	75	36
113	521625	492150	7243625	Grid	15	19	0	1	9
114	521531	491225	7244012	Grid	17	0	0	0	0
115	521932	490526	7244290	Grid	17	0	0	1	0
116	521538	490749	7244201	Grid	1	0	2	60	58
117	521290	492828	7243350	Grid	15	4	0	0	0
118	521431	492364	7243541	Grid	15	92	0	0	1
119	521985	489822	7244584	Grid	15	0	0	99	99
120	521644	493293	7243163	Grid	1	0	0	6	24
121	521620	498146	7241209	Grid	15	0	0	0	0
122	521693	494231	7242780	Grid	15	97	0	0	0
123	521482	496300	7241954	Grid	15	0	0	0	0
124	521303	496084	7242036	Grid	15	0	0	0	0
125	521641	498624	7241016	Grid	15	0	0	0	0
126	521770	495860	7242116	Grid	15	0	0	0	1
127	521547	493759	7242972	Grid	17	0	0	98	90
128	521897	499067	7240834	Grid	17	0	0	76	3
129	521708	495618	7242212	Grid	17	0	0	0	0
130	521714	497902	7241297	Grid	15	0	0	0	1
131	521432	495383	7242313	Grid	15	100	0	0	13
132	521698	493059	7243251	Grid	7	0	0	100	96
133	521267	494683	7242596	Grid	17	0	0	1	0
134	521564	498385	7241117	Grid	15	7	0	0	0
135	521507	497006	7241690	Grid	7	0	0	100	94
136	521463	494914	7242504	Grid	1	1	0	91	86
137	521859	498858	7240923	Grid	17	0	0	2	0

Talisman Great Bear Plains Survey
Model Probability Values

INDEX						Probability Value	Probability Value	Probability Value	Probability Value
ID	MODULE #	Easting	Northing	Status	Cluster Group	Model Tweed Lake M-47	Model Cluster 13	Model Cluster 7	Model Clusters 7 & 13
138	521260	497667	7241377	Grid	15	0	0	0	1
139	521442	497234	7241585	Grid	15	0	0	0	0
140	521737	495153	7242404	Grid	17	0	0	31	2
141	521348	496525	7241862	Grid	15	0	0	0	0
142	521393	494464	7242688	Grid	15	5	0	1	56
143	521611	496767	7241787	Grid	17	0	0	0	0
144	521582	493995	7242880	Grid	15	69	0	0	29
145	521337	493553	7243059	Grid	15	0	0	1	40
146	521900	503265	7239102	Grid	17	15	0	15	0
147	521981	502312	7239495	Grid	1	87	0	86	99
148	521580	500461	7240258	Grid	15	100	0	1	2
149	521650	501392	7239873	Grid	15	0	0	0	8
150	521569	505086	7238350	Grid	15	99	0	0	13
151	522013	506000	7237977	Grid	15	87	0	0	0
152	522009	504141	7238740	Grid	15	0	0	2	1
153	521870	501851	7239681	Grid	15	100	0	16	36
154	521551	502791	7239294	Grid	15	96	0	1	7
155	521887	499588	7240625	Grid	15	1	0	0	0
156	521929	503717	7238914	Grid	15	0	0	0	0
157	521689	500921	7240068	Grid	17	0	0	94	61
158	521874	505525	7238174	Grid	17	0	0	0	0
159	521752	499984	7240452	Grid	17	41	0	25	0
160	521803	499300	7240734	Grid	15	1	0	0	28
161	521281	504577	7238563	Grid	15	42	0	0	1
162	521288	485328	7259214	Grid	15	0	0	0	1
163	521903	489249	7258428	Grid	17	0	0	0	0
164	521387	484353	7259460	Grid	17	0	0	0	0
165	521808	490724	7258117	Grid	15	100	0	0	0
166	521294	483383	7259780	Grid	15	0	0	0	0
167	521885	485825	7259161	Grid	15	10	0	0	0
168	521261	486826	7259050	Grid	15	0	0	0	0
169	521600	490218	7258202	Grid	7	0	0	81	69
170	521883	487817	7258872	Grid	15	82	0	0	0
171	521627	484826	7259280	Grid	8	0	100	0	60
172	521272	487325	7258994	Grid	15	0	0	0	0
173	521832	486328	7259105	Grid	15	40	0	0	0
174	521961	483872	7259648	Grid	15	0	0	0	0
175	521423	487245	7264830	Grid	15	0	0	0	1
176	521268	488814	7264883	Grid	11	0	0	2	0
177	521428	489321	7264903	Grid	15	0	0	0	0
178	521382	492848	7265033	Grid	15	0	0	0	1

Talisman Great Bear Plains Survey
Model Probability Values

INDEX						Probability Value	Probability Value	Probability Value	Probability Value
ID	MODULE #	Easting	Northing	Status	Cluster Group	Model Tweed Lake M-47	Model Cluster 13	Model Cluster 7	Model Clusters 7 & 13
179	521606	484782	7264669	Grid	17	4	1	0	1
180	521257	491341	7264979	Grid	15	75	0	0	0
181	521849	487747	7264850	Grid	15	0	0	0	0
182	521478	490303	7264880	Grid	7	0	0	77	98
183	521810	484291	7264661	Grid	17	1	3	0	6
184	521347	489790	7264845	Grid	1	0	0	0	13
185	521613	490860	7264939	Grid	15	100	0	0	0
186	521975	493775	7265337	Grid	15	95	0	0	1
187	521778	492353	7265021	Grid	15	99	0	0	0
188	521520	485277	7264701	Grid	17	0	0	80	92
189	521755	483781	7264648	Grid	15	98	0	4	96
190	521667	485783	7264743	Grid	17	0	1	0	0
191	521486	486763	7264814	Grid	17	0	3	1	0
192	521842	491839	7265031	Grid	15	89	0	0	0
193	521573	493325	7265153	Grid	15	21	0	0	6
194	521982	486274	7264780	Grid	4	93	0	74	0
195	521302	488307	7264868	Grid	17	0	0	1	8
196	521469	492694	7257785	Grid	13	91	100	99	100
197	521366	494724	7265663	Grid	15	100	0	16	99
198	521553	496204	7265813	Grid	15	99	0	0	1
199	521453	496701	7265792	Grid	15	100	3	18	100
200	521527	493656	7257565	Grid	13	70	100	90	100
201	521692	493198	7257686	Grid	9	63	100	100	100
202	521636	498177	7265806	Grid	15	8	0	1	37
203	521661	491229	7258032	Grid	15	0	0	0	7
204	521656	492201	7257863	Grid	15	97	0	0	12
205	521818	497708	7265807	Grid	15	100	15	25	96
206	521335	494236	7265495	Grid	15	0	0	0	0
207	521331	495225	7265747	Grid	15	0	0	0	1
208	521754	497209	7265790	Grid	13	79	100	99	100
209	521889	494143	7257443	Grid	15	100	31	40	99
210	521986	488277	7258709	Grid	13	100	100	98	100
211	521614	495741	7265817	Grid	15	90	0	0	5
212	521637	499995	7256119	Grid	15	0	0	0	0
213	521447	499187	7265785	Grid	15	0	0	0	0
214	521477	499043	7256342	Grid	1	0	0	1	42
215	521433	498571	7256467	Grid	13	50	100	77	100
216	521536	498676	7265799	Grid	15	0	0	0	0
217	521787	502674	7265771	Grid	15	0	0	0	1
218	521838	500200	7265735	Grid	15	100	25	1	85
219	521680	501165	7265665	Grid	15	100	1	0	85

Talisman Great Bear Plains Survey
Model Probability Values

INDEX						Probability Value	Probability Value	Probability Value	Probability Value
ID	MODULE #	Easting	Northing	Status	Cluster Group	Model Tweed Lake M-47	Model Cluster 13	Model Cluster 7	Model Clusters 7 & 13
220	522012	497572	7256712	Grid	13	100	100	91	100
221	521715	501671	7265686	Grid	15	0	0	0	0
222	521727	496567	7256901	Grid	3	0	0	47	78
223	521277	499692	7265776	Grid	15	90	0	0	4
224	521931	503180	7265805	Grid	17	95	100	99	88
225	521472	499554	7256353	Grid	15	100	0	0	0
226	521776	498133	7256592	Grid	11	100	0	100	0
227	521467	495089	7257176	Grid	15	100	0	0	0
228	521414	497077	7256808	Grid	15	78	0	0	11
229	521797	496074	7256986	Grid	15	19	0	1	0
230	521591	502175	7265737	Grid	13	93	100	56	100
231	521960	495577	7257061	Grid	15	64	0	57	90
232	521956	500704	7265700	Grid	13	96	100	90	100
233	521322	483466	7262401	Grid	15	0	0	12	75
234	521962	506927	7254775	Grid	15	19	0	0	2
235	521906	503686	7265836	Grid	15	58	0	0	7
236	521749	502968	7255477	Grid	15	73	0	0	3
237	521771	503961	7255346	Grid	15	0	0	5	56
238	521320	483936	7262597	Grid	15	98	0	0	1
239	521360	503454	7255423	Grid	15	0	0	3	16
240	521764	485776	7263489	Grid	1	1	0	3	13
241	521934	500470	7255984	Grid	15	1	0	4	29
242	521276	500959	7255885	Grid	15	4	0	0	0
243	521596	505953	7255006	Grid	15	78	0	0	28
244	521748	502461	7255529	Grid	18	0	100	99	100
245	521844	504474	7255263	Grid	17	90	94	83	97
246	521468	484409	7262797	Grid	15	92	0	0	0
247	521628	485331	7263228	Grid	7	0	2	100	100
248	521643	483008	7262180	Grid	15	0	0	10	20
249	521408	505473	7255091	Grid	15	100	1	3	78
250	521439	504981	7255170	Grid	15	98	0	2	92
251	521738	484870	7262992	Grid	15	0	0	0	0
252	521946	501458	7255777	Grid	15	2	0	0	0
253	521963	504199	7265861	Grid	15	81	0	41	88
254	521380	501971	7255595	Grid	15	89	0	0	74
255	522007	506434	7254902	Grid	12	100	14	41	100
256	521512	496181	7264986	Grid	15	0	0	0	0
257	521473	496848	7266643	Grid	15	13	0	0	3
258	521292	488216	7264907	Grid	1	0	87	100	99
259	521352	487544	7264524	Grid	15	0	0	0	0
260	521774	495682	7263507	Grid	17	0	0	2	4

Talisman Great Bear Plains Survey
Model Probability Values

INDEX						Probability Value	Probability Value	Probability Value	Probability Value
ID	MODULE #	Easting	Northing	Status	Cluster Group	Model Tweed Lake M-47	Model Cluster 13	Model Cluster 7	Model Clusters 7 & 13
261	521270	489589	7265518	Grid	17	0	100	6	34
262	521687	488677	7265134	Grid	17	0	2	97	100
263	521401	495940	7264237	Grid	15	0	0	0	2
264	521697	495577	7263251	Grid	7	0	0	100	100
265	521930	497137	7267306	Grid	19	90	100	0	0
266	521413	497040	7267088	Grid	1	0	0	1	73
267	521726	488446	7265022	Grid	17	1	100	77	65
268	521856	485995	7263621	Grid	15	0	0	60	14
269	521798	496752	7266417	Grid	17	0	100	0	0
270	521969	496257	7265223	Grid	1	0	0	96	100
271	521772	496369	7265498	Grid	15	0	0	0	1
272	521519	486886	7264135	Grid	15	0	0	0	2
273	521604	489861	7266287	Grid	17	0	100	15	1
274	521325	489674	7266122	Grid	15	4	0	0	12
275	521621	486440	7263873	Grid	15	100	95	99	99
276	521421	496947	7266872	Grid	15	2	0	0	0
277	521338	496552	7265939	Grid	15	24	0	0	0
278	521886	487325	7264393	Grid	17	17	100	79	82
279	521601	496105	7264740	Grid	15	12	0	2	74
280	521456	487107	7264266	Grid	15	0	0	54	29
281	521266	490082	7266154	Grid	15	99	0	0	0
282	521777	488900	7265244	Grid	15	3	0	0	14
283	521444	487985	7264782	Grid	17	1	100	99	90
284	521646	495362	7262805	Grid	15	7	0	10	95
285	521559	489842	7265628	Grid	17	0	100	8	6
286	521287	487766	7264653	Grid	17	11	100	100	98
287	521724	489146	7265322	Grid	15	37	59	99	100
288	521911	495787	7263740	Grid	15	1	0	0	1
289	521734	497235	7267530	Grid	15	100	0	0	0
290	521968	490240	7265950	Grid	15	98	99	79	27
291	521970	496463	7265720	Grid	17	4	100	0	0
292	521295	486207	7263736	Grid	15	78	0	0	0
293	521504	486652	7264016	Grid	15	4	0	0	0
294	521275	496016	7264471	Grid	17	9	0	12	0
295	521386	489771	7265874	Grid	15	77	0	6	0
296	521852	496657	7266185	Grid	15	100	0	0	0
297	521830	495866	7264000	Grid	15	100	0	0	42
298	521940	489341	7265473	Grid	15	87	0	0	0
299	521739	498972	7270251	Grid	15	0	0	0	0
300	521314	497751	7268666	Grid	1	1	0	71	92
301	521707	491650	7266531	Grid	7	0	0	100	100

Talisman Great Bear Plains Survey
Model Probability Values

INDEX						Probability Value	Probability Value	Probability Value	Probability Value
ID	MODULE #	Easting	Northing	Status	Cluster Group	Model Tweed Lake M-47	Model Cluster 13	Model Cluster 7	Model Clusters 7 & 13
302	521283	498242	7269234	Grid	19	0	100	0	0
303	521558	499557	7271544	Grid	15	0	0	0	0
304	521555	491179	7266355	Grid	15	96	0	93	87
305	521651	497332	7267761	Grid	19	0	100	0	0
306	521511	493140	7267106	Grid	17	0	99	1	2
307	522005	498869	7270017	Grid	17	0	100	0	0
308	521265	492141	7266711	Grid	15	97	2	90	97
309	521364	492405	7266781	Grid	15	100	0	0	0
310	521575	499057	7270483	Grid	17	0	99	0	0
311	521807	490052	7265821	Grid	5	37	0	100	100
312	521594	498593	7269603	Grid	17	0	0	15	0
313	521543	497546	7268217	Grid	17	0	100	0	0
314	521598	491413	7266444	Grid	15	66	0	0	95
315	521474	497910	7268854	Grid	15	100	99	0	7
316	521535	490451	7266015	Grid	1	0	0	100	100
317	521443	499620	7271782	Grid	15	20	0	1	3
318	521394	499478	7271304	Grid	17	0	0	0	0
319	521339	493399	7267175	Grid	15	0	0	0	14
320	521343	499228	7270881	Grid	17	0	95	0	0
321	521732	499706	7272000	Grid	15	100	0	0	92
322	521670	498736	7269803	Grid	15	100	0	0	0
323	521602	492634	7266894	Grid	15	36	0	0	0
324	521792	492896	7266990	Grid	17	1	16	9	1
325	521618	497639	7268444	Grid	19	0	100	0	0
326	521381	498087	7269030	Grid	1	12	0	94	47
327	521873	490941	7266256	Grid	15	0	0	100	100
328	521664	499351	7271095	Grid	17	0	98	0	0
329	521665	498411	7269408	Grid	17	0	100	0	25
330	521898	490679	7266129	Grid	7	0	4	100	100
331	521855	497430	7267988	Grid	15	77	0	0	0
332	521802	491906	7266625	Grid	17	41	37	53	5
333	521488	494096	7267526	Grid	17	0	99	0	1
334	521279	495669	7268752	Grid	17	0	55	0	0
335	521642	500966	7274640	Grid	15	2	0	0	33
336	521669	494880	7268192	Grid	15	2	7	0	0
337	521362	500018	7272727	Grid	14	0	2	4	1
338	521722	500617	7273977	Grid	17	0	0	2	7
339	521286	496480	7269173	Grid	15	0	4	1	0
340	521705	499809	7272279	Grid	7	0	0	100	100
341	521255	500344	7273403	Grid	1	0	0	1	32
342	521991	494297	7267698	Grid	17	0	100	0	1

Talisman Great Bear Plains Survey
Model Probability Values

INDEX						Probability Value	Probability Value	Probability Value	Probability Value
ID	MODULE #	Easting	Northing	Status	Cluster Group	Model Tweed Lake M-47	Model Cluster 13	Model Cluster 7	Model Clusters 7 & 13
343	521831	495891	7268869	Grid	1	98	0	2	4
344	521760	495012	7268302	Grid	17	0	2	4	0
345	521332	500131	7272959	Grid	17	0	1	21	1
346	521682	501110	7274838	Grid	17	0	0	0	1
348	521524	495435	7268646	Grid	15	96	2	1	10
349	521866	499911	7272504	Grid	15	99	3	97	100
350	521942	501256	7275046	Grid	15	3	0	7	96
351	521298	500217	7273185	Grid	17	0	0	20	97
352	521515	501544	7275550	Grid	14	0	0	31	0
353	521743	500728	7274205	Grid	15	0	0	0	4
354	521965	496226	7269214	Grid	7	4	0	100	99
355	521957	495210	7268469	Grid	17	89	53	25	0
356	521843	494689	7268030	Grid	15	100	0	0	0
357	521742	501409	7275281	Grid	15	63	0	1	1
358	521773	500831	7274429	Grid	15	100	0	1	3
359	521947	493883	7267392	Grid	17	99	0	98	0
360	521815	493642	7267271	Grid	15	96	0	34	57
361	521655	496125	7268980	Grid	15	57	3	3	1
362	521936	500424	7273634	Grid	1	0	0	12	5
363	521528	499610	7271709	Grid	15	0	0	1	0
364	521671	501911	7276337	Grid	15	0	0	0	1
365	521379	499407	7271169	Grid	17	0	0	0	0
366	521631	502268	7276991	Grid	15	88	0	0	0
367	521685	497357	7269687	Grid	15	100	0	0	0
368	521820	502513	7277438	Grid	15	9	0	0	3
369	521905	497979	7270154	Grid	15	92	0	6	78
370	521306	499391	7270740	Grid	8	0	100	0	1
371	521864	502246	7277918	Grid	1	2	0	0	3
372	521262	496715	7269266	Grid	15	83	0	1	0
373	521884	498969	7270490	Grid	17	46	100	0	49
374	521350	502142	7276761	Grid	1	0	0	10	99
375	521871	499524	7271461	Grid	15	9	1	0	4
376	521733	497153	7269534	Grid	17	0	100	2	4
377	521616	499217	7270557	Grid	15	11	0	0	1
378	521928	496948	7269384	Grid	15	99	0	0	0
379	521349	501786	7276099	Grid	15	62	0	0	1
380	521341	501703	7275831	Grid	15	0	0	0	8
381	521321	502764	7277904	Grid	14	1	10	0	60
382	521996	497572	7269847	Grid	17	0	94	6	0
383	521526	502483	7277833	Grid	14	0	2	0	35
384	521326	502392	7277209	Grid	17	56	11	0	4

Talisman Great Bear Plains Survey
Model Probability Values

INDEX						Probability Value	Probability Value	Probability Value	Probability Value
ID	MODULE #	Easting	Northing	Status	Cluster Group	Model Tweed Lake M-47	Model Cluster 13	Model Cluster 7	Model Clusters 7 & 13
385	521539	502025	7276540	Grid	15	0	0	0	14
386	521766	499271	7270968	Grid	14	0	2	0	0
388	521652	502657	7277691	Grid	14	1	16	0	0
389	521503	498216	7270287	Grid	2	0	0	0	0
390	521759	498725	7270384	Grid	15	100	100	100	100
391	521567	500494	7278498	Grid	15	0	0	0	0
392	521545	496304	7279747	Grid	15	0	0	0	0
393	521914	501017	7278336	Grid	15	2	0	1	1
394	521972	497033	7279409	Grid	14	0	0	0	0
395	521795	500258	7278577	Grid	14	0	62	0	7
396	521510	499273	7278844	Grid	11	5	71	1	0
397	521455	497781	7279197	Grid	15	0	0	0	0
398	521694	501529	7278159	Grid	15	0	0	0	0
399	521967	501281	7278238	Grid	14	0	6	0	0
400	521713	498522	7279012	Grid	17	0	0	0	0
401	521367	496795	7279426	Grid	14	0	0	0	0
402	521833	496597	7279592	Grid	15	0	0	0	1
403	521679	502019	7277997	Grid	10	0	34	0	0
404	521593	498276	7279064	Grid	14	1	29	0	10
405	521300	499773	7278735	Grid	15	3	0	2	10
406	521649	501779	7278077	Grid	14	6	34	0	4
407	521415	499019	7278902	Grid	15	96	0	1	1
408	521896	498026	7279132	Grid	15	22	0	0	2
409	521841	498767	7278960	Grid	17	4	1	0	0
410	521462	499519	7278791	Grid	17	0	44	0	0
411	521973	497547	7279266	Grid	15	93	0	0	0
412	521327	500765	7278409	Grid	14	0	96	0	6
413	521388	500013	7278656	Grid	14	78	2	0	0
414	521619	497288	7279335	Grid	15	99	0	1	0
415	521493	495017	7243814	Grid	17	0	0	0	0
416	521654	493362	7243097	Grid	12	0	0	0	0
417	521441	494078	7243407	Grid	1	5	0	79	27
418	521788	492311	7242615	Grid	15	0	0	0	0
419	521514	493024	7242939	Grid	1	0	0	69	2
420	521425	494800	7243722	Grid	15	8	0	0	0
421	521994	492790	7242832	Grid	6	88	0	100	99
422	521571	493838	7243307	Grid	15	0	0	21	0
423	521812	494551	7243613	Grid	15	1	0	3	91
424	521784	493599	7243203	Grid	15	0	0	0	0
425	521311	492551	7242726	Grid	6	73	0	100	100
426	521588	494311	7243506	Grid	17	85	0	3	0

Talisman Great Bear Plains Survey
Model Probability Values

INDEX						Probability Value	Probability Value	Probability Value	Probability Value
ID	MODULE #	Easting	Northing	Status	Cluster Group	Model Tweed Lake M-47	Model Cluster 13	Model Cluster 7	Model Clusters 7 & 13
501	521533	371548	7427402	Grid	#N/A	90	#N/A	#N/A	#N/A
502	521385	372009	7427690	Grid	#N/A	100	#N/A	#N/A	#N/A
503	521617	372445	7427965	Grid	#N/A	92	#N/A	#N/A	#N/A
504	521546	372893	7428245	Grid	#N/A	100	#N/A	#N/A	#N/A
505	521634	373326	7428526	Grid	#N/A	66	#N/A	#N/A	#N/A
506	521763	373780	7428812	Grid	#N/A	95	#N/A	#N/A	#N/A
507	521953	374204	7429076	Grid	#N/A	96	#N/A	#N/A	#N/A
508	521806	374612	7429329	Grid	#N/A	0	#N/A	#N/A	#N/A
509	521768	374817	7429466	Grid	#N/A	75	#N/A	#N/A	#N/A
510	521438	375034	7429595	Grid	#N/A	54	#N/A	#N/A	#N/A
511	521259	375250	7429743	Grid	#N/A	0	#N/A	#N/A	#N/A
512	521376	375463	7429873	Grid	#N/A	36	#N/A	#N/A	#N/A
513	521976	375689	7430012	Grid	#N/A	6	#N/A	#N/A	#N/A
514	521945	375901	7430150	Grid	#N/A	70	#N/A	#N/A	#N/A
515	521789	376111	7430280	Grid	#N/A	7	#N/A	#N/A	#N/A
516	521299	376299	7430396	Grid	#N/A	3	#N/A	#N/A	#N/A
517	521346	376501	7430530	Grid	#N/A	0	#N/A	#N/A	#N/A
518	521548	376710	7430659	Grid	#N/A	0	#N/A	#N/A	#N/A
1001	521607	484849	7303834	Model	15	0	0	0	1
1002	521902	484880	7303779	Model	15	0	0	0	0
1003	521572	484869	7303793	Model	17	0	10	0	0
1004	521662	484929	7303760	Model	17	2	0	0	0
1005	521918	484851	7303889	Model	15	12	0	0	0
1006	521758	484956	7303781	Model	15	0	0	0	0
1007	521460	484858	7303818	Model	15	0	0	0	0
1008	521324	484978	7303815	Model	12	0	0	99	100
1009	521746	484849	7303871	Model	15	0	0	0	0
1010	521836	484945	7303764	Model	17	2	17	0	0
1011	521939	484893	7303768	Model	15	2	0	0	0
1012	521709	484852	7303851	Model	7	0	0	100	100
1013	521904	484969	7303798	Model	15	19	0	1	3
1014	521291	484910	7303759	Model	15	1	0	1	0
1015	521629	484863	7303803	Model	15	5	0	0	0
2001	521293	628260	7436359	Model	#N/A	0	#N/A	#N/A	#N/A
2002	521659	628462	7436359	Model	#N/A	0	#N/A	#N/A	#N/A
2003	521922	628267	7436340	Model	#N/A	49	#N/A	#N/A	#N/A
2004	521740	628439	7436318	Model	#N/A	78	#N/A	#N/A	#N/A
2005	521987	628290	7436386	Model	#N/A	0	#N/A	#N/A	#N/A
2006	521605	628451	7436332	Model	#N/A	15	#N/A	#N/A	#N/A
2007	521523	628386	7436268	Model	#N/A	94	#N/A	#N/A	#N/A
2008	521867	628316	7436290	Model	#N/A	0	#N/A	#N/A	#N/A

Talisman Great Bear Plains Survey
Model Probability Values

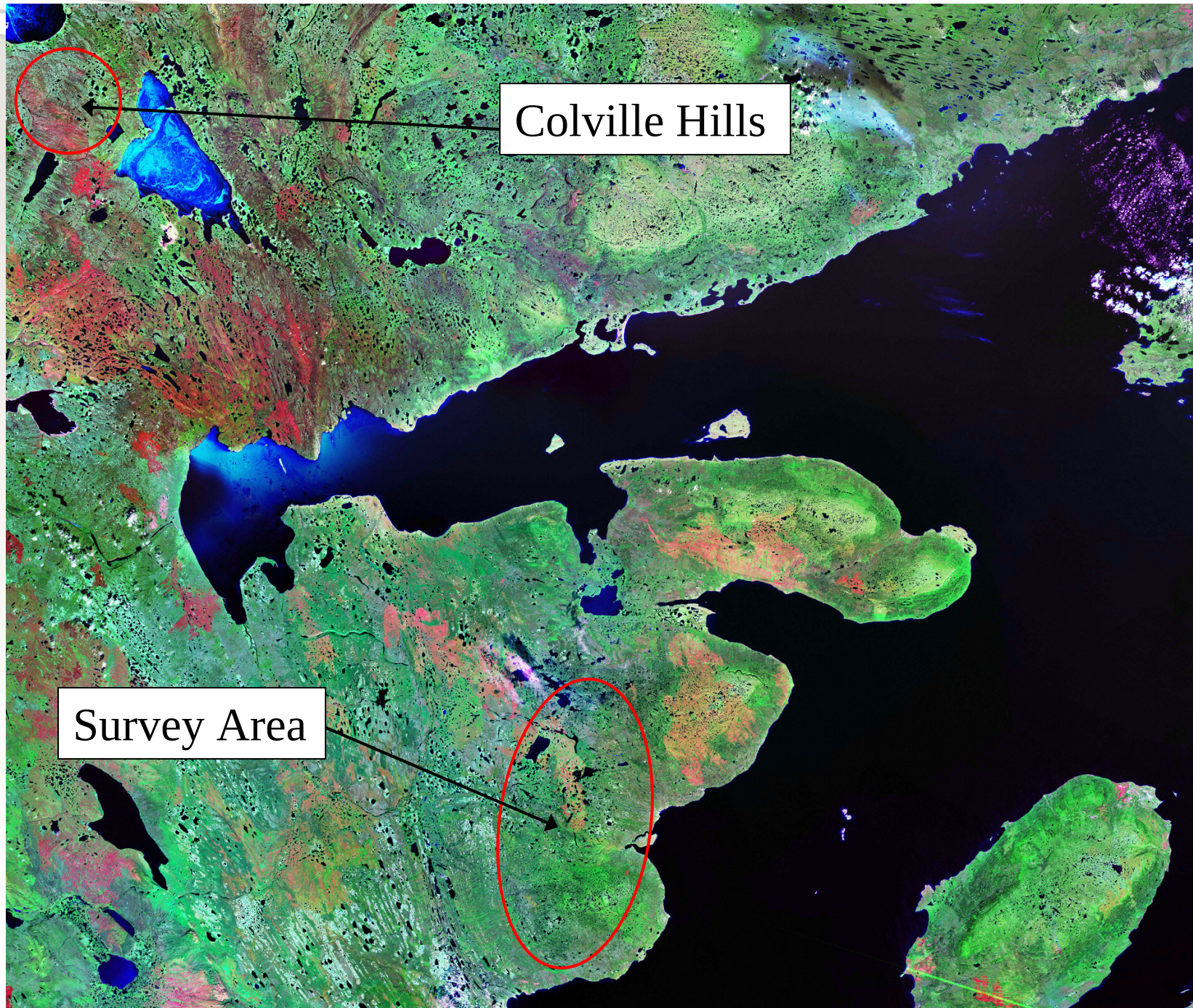
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2009	521615	628418	7436281	Model	#N/A	0	#N/A	#N/A	#N/A
2010	521344	628359	7436262	Model	#N/A	1	#N/A	#N/A	#N/A
2011	521284	628312	7436402	Model	#N/A	1	#N/A	#N/A	#N/A
2012	521890	628289	7436323	Model	#N/A	5	#N/A	#N/A	#N/A
2013	521483	628330	7436277	Model	#N/A	2	#N/A	#N/A	#N/A
3001	521750	373009	7428422	Model	#N/A	90	#N/A	#N/A	#N/A
3002	521570	373189	7428345	Model	#N/A	81	#N/A	#N/A	#N/A
3003	521720	373086	7428282	Model	#N/A	99	#N/A	#N/A	#N/A
3004	521280	373130	7428306	Model	#N/A	73	#N/A	#N/A	#N/A
3005	521568	373008	7428410	Model	#N/A	100	#N/A	#N/A	#N/A
3006	521921	373195	7428387	Model	#N/A	28	#N/A	#N/A	#N/A
3007	521822	373171	7428335	Model	#N/A	100	#N/A	#N/A	#N/A
3008	521686	373186	7428398	Model	#N/A	32	#N/A	#N/A	#N/A
3010	522010	373108	7428294	Model	#N/A	81	#N/A	#N/A	#N/A
3011	521457	373208	7428366	Model	#N/A	71	#N/A	#N/A	#N/A
3012	521988	373148	7428318	Model	#N/A	98	#N/A	#N/A	#N/A
3013	521857	373032	7428359	Model	#N/A	82	#N/A	#N/A	#N/A
3014	521910	373072	7428299	Model	#N/A	100	#N/A	#N/A	#N/A
3015	521850	373202	7428351	Model	#N/A	100	#N/A	#N/A	#N/A
Losh Lake	Losh Lake			P&A	#N/A	0		0	0
Tweed Lake	Tweed Lake C12			P&A	#N/A	1	#N/A	#N/A	#N/A
Tweed Lake	Tweed Lake M47			GAS	#N/A	86	#N/A	#N/A	#N/A

APPENDIX B

The GORE Survey for Exploration Surface Geochemical Sampling System

GORE™ Surveys for Exploration *“Amplified Geochemical Imaging”*

Geochemical Results for:
Great Bear Plains Survey,
NWT

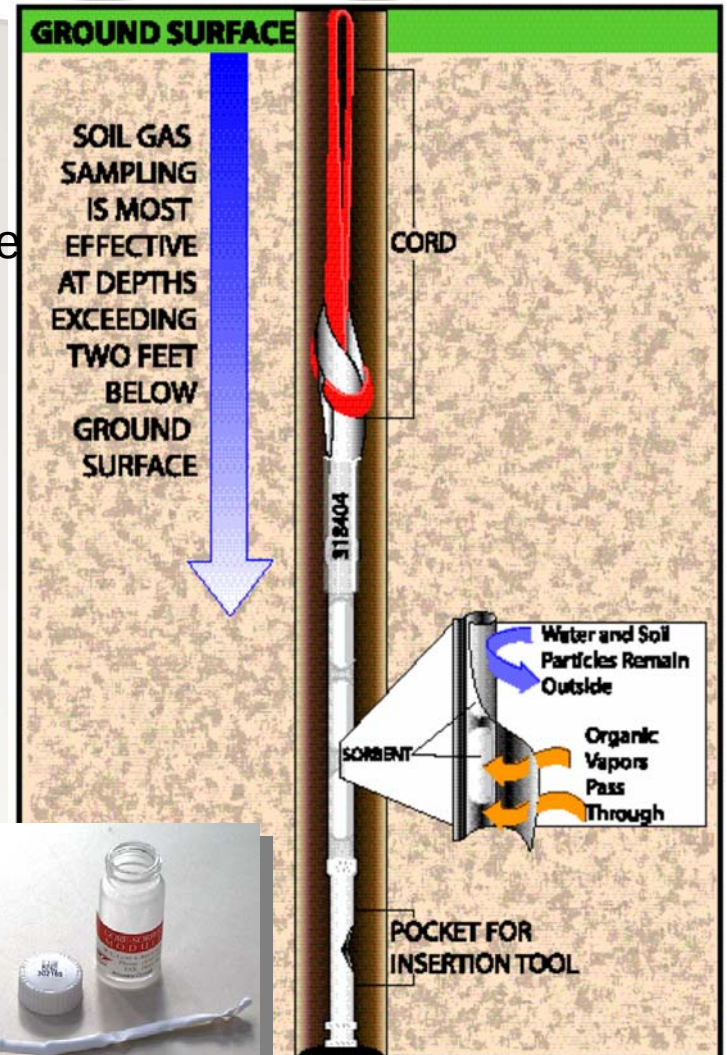


Survey Objective

- **Determine the probability of significant hydrocarbon accumulations structurally trapped in the Cambrian Mount Clark formation on Exploration License 437 in the Great Bear Plains area of the Northwest Territories of Canada based on modeled accumulations in the Colville Hills area.**

GORE™ Module

- Patented, passive, sorbent-based
 - Chemically-inert, waterproof, vapor permeable
 - Direct detection of organic compounds
 - Sample integrity protected
- Engineered sorbents
 - Consistent sampling medium
 - Minimal water vapor uptake
- Time-integrated sampling
 - Minimize near-surface variability
 - Maximize sensitivity (up to C20)
 - Avoids variables inherent in instantaneous sampling
- Duplicate samples

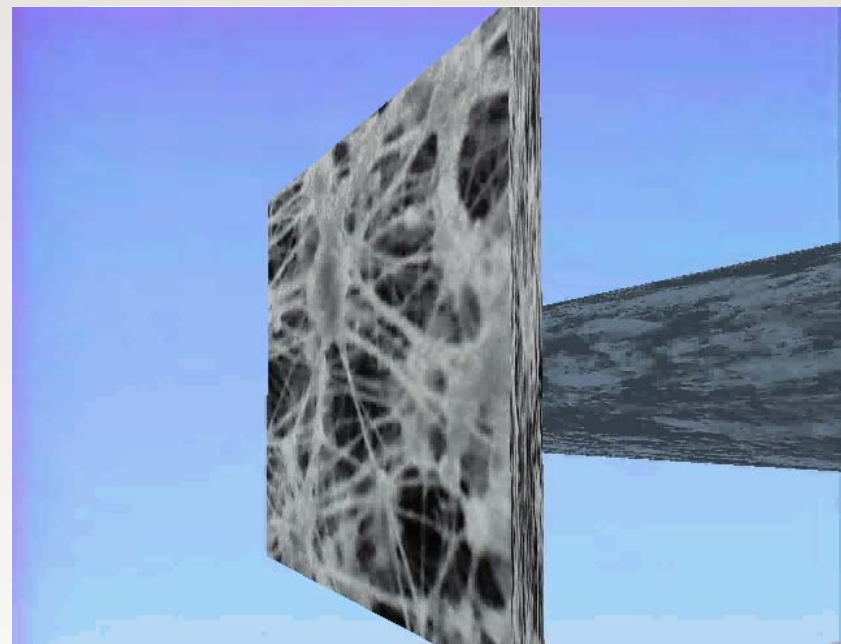


GORE™ Surveys - Collection

Based on Patented ePTFE Technology

*C₂-C₂₀ molecules are ~5-10A
Membrane pores are ~1000A
Water drops are >5000A*

- **Passive, sorbent-based**
- **Chemically-inert, waterproof, vapor permeable, durable**
 - Sample integrity protected
- **Gore Engineered sorbents**
 - Consistent sampling medium
 - Minimal water vapor uptake
- **Time-integrated sampling**
 - ~17 day exposure
 - Minimize near-surface variability
 - Maximize sensitivity (up to C20)
 - Avoids variables inherent in instantaneous sampling
- **Duplicate samples**



ePTFE - 50,000 x magnification



W. L. Gore &
Associates



Field Installation

- 334 grid samples installed in Great Bear Plains Area
- 18 grid samples installed along transect in Colville
- 15 model samples installed at Losh Lake
- 15 model samples installed at Tweed Lake C12
- 14 model samples installed at Tweed Lake M47
- 8 grid samples and 1 model sample not recovered

GORE™ Surveys –

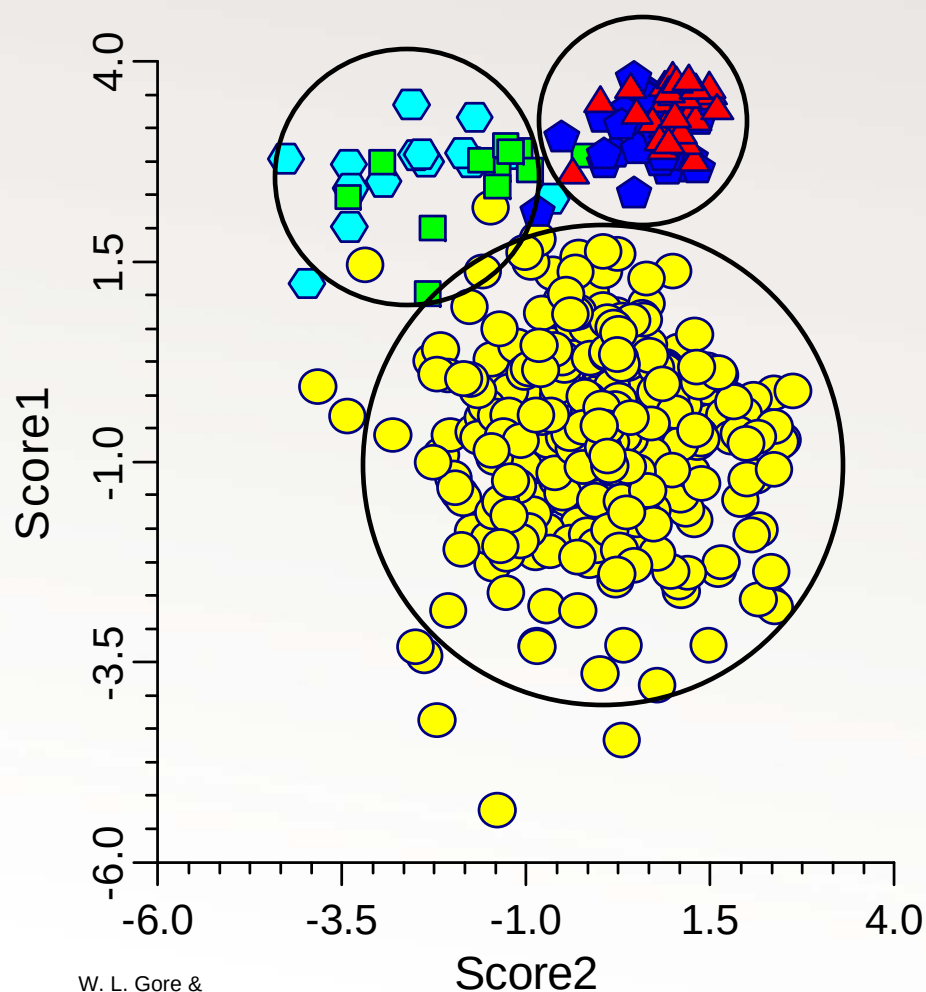
Analyze 85 Target Analytes: C2 – C20

Ethene	Toluene	1-Decene
Ethane	3-Methylheptane	Decane
Propene	cis-1,3-Dimethylcyclohexane	1,2,4-Trimethylbenzene
Propane	cis-1,4-Dimethylcyclohexane	Octanal
1-Butene	1-Octene	Benzofuran
Butane	Cycloheptane	Limonene
2-Methylbutane	cis-1,2-Dimethylcyclohexane	Indane
1-Pentene	Octane	Indene
Pentane	trans-1,3-Dimethylcyclohexane	Butylbenzene
Furan	trans-1,4-Dimethylcyclohexane	1-Undecene
Iodomethane	2,6-Dimethylheptane	Undecane
Carbon disulfide	trans-1,2-Dimethylcyclohexane	Nonanal
Cyclopentane	Ethylcyclohexane	1,2,4,5-Tetramethylbenzene
2-Methylpentane	Ethylbenzene	Camphor
3-Methylpentane	m-Xylene	Dodecane
1-Hexene	p-Xylene	Naphthalene
Hexane	1-Nonene	Decanal
2-Methylfuran	Styrene	Benzothiazole
Methylcyclopentane	o-Xylene	Tridecane
2,4-Dimethylpentane	Nonane	2-Methylnaphthalene
Cyclohexane	Cyclooctane	Tetradecane
Benzene	Propylcyclohexane	Caryophyllene
2-Methylhexane	alpha-Pinene	Acenaphthylene
3-Methylhexane	Camphene	Pentadecane
cis-1,3-Dimethylcyclopentane	Propylbenzene	Hexadecane
trans-1,3-Dimethylcyclopentane	1-Ethyl-2-methylbenzene	Heptadecane
trans-1,2-Dimethylcyclopentane	1-Ethyl-3-methylbenzene	Pristane
1-Heptene	1,3,5-Trimethylbenzene	Octadecane
Heptane	beta-Pinene	Phytane
Methylcyclohexane	1-Ethyl-4-methylbenzene	Carbazole
2,5-Dimethylhexane		



Quality Assurance /Quality Control

Canonical-Variates Scores



Class

- Grid Sample
- ▲ Instrument Blank
- Inventory Blank
- ◆ Method Blank
- ⬡ Trip Blank

Canonical Results

Indicate Grid Samples Detected Valid Field Signal

QA/QC - Signal to Noise

Dimethyl Disulfide

Furan

1-Hexene

Hexane

2-Methylfuran

Benzene

1-Heptene

Toluene

Ethylbenzene

m,p-Xylenes

1-Nonene

o-Xylene

alpha-Pinene

Propylbenzene

1-Ethyl-2/3-methylbenzene

1,3,5-Trimethylbenzene

beta-Pinene

1-Ethyl-4-methylbenzene

1-Decene

1,2,4-Trimethylbenzene

Octanal

Benzofuran

Butylbenzene

Nonanal

1,2,4,5-Tetramethylbenzene

Camphor

Decanal

Benzothiazole

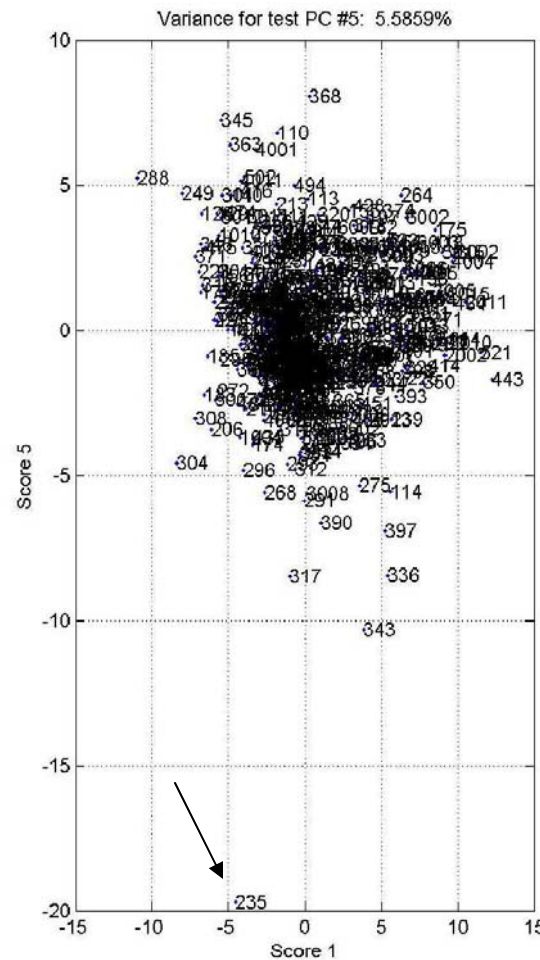
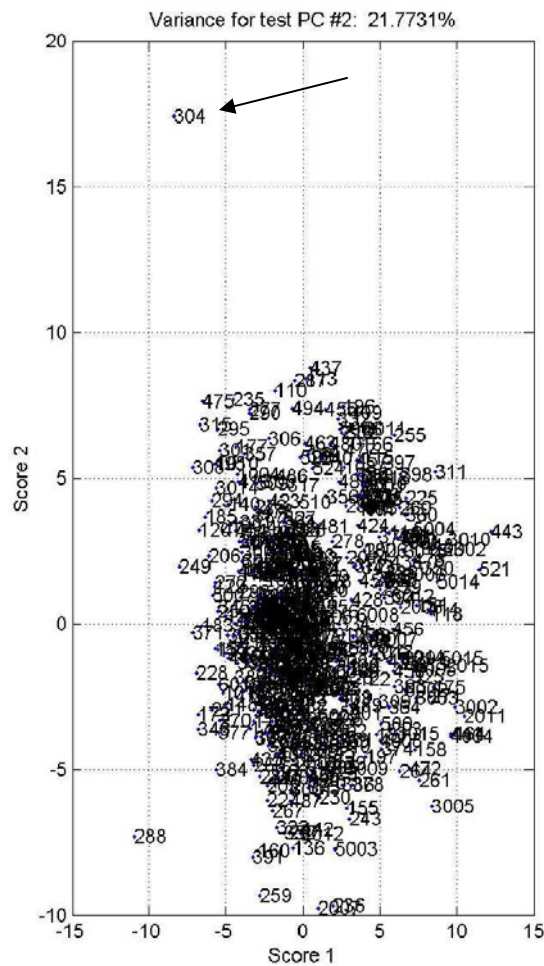
Caryophyllene

Acenaphthylene

***Thirty
Compounds
that failed
S/N***

PCA Outliers

2 Grid Samples and 2 Model Samples
were removed as outliers in PCA



**Example
Outliers**

Model Wells

- Tweed Lake M47 – Gas + Liquids
- Tweed Lake C12 – Dry
- Losh Lake – Dry

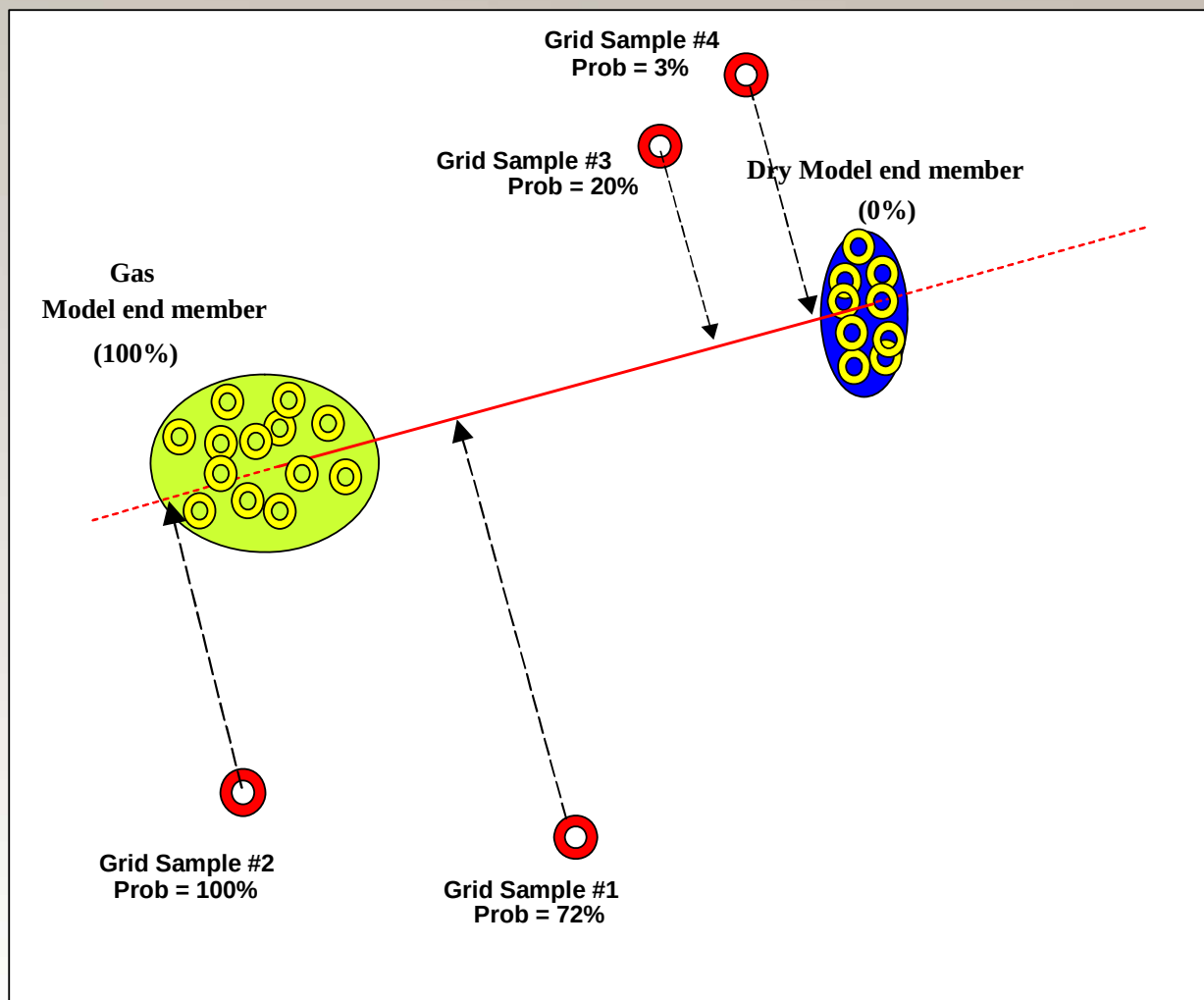
Unproduced wells usually are excellent models. Signature should be of initial state of reservoir.

Model Strategy

- Use PCA and Discriminate Analysis to determine significant differences between Model End-Members
- Tweed Lake M47 Gas End-Member
- Tweed Lake C12 and Losh Lake (Dry) background End-Members
- Use Hierarchical Cluster Analysis on Great Bear Plains samples to determine unique hydrocarbon signatures

GORE™ Surveys – Probability Calculation

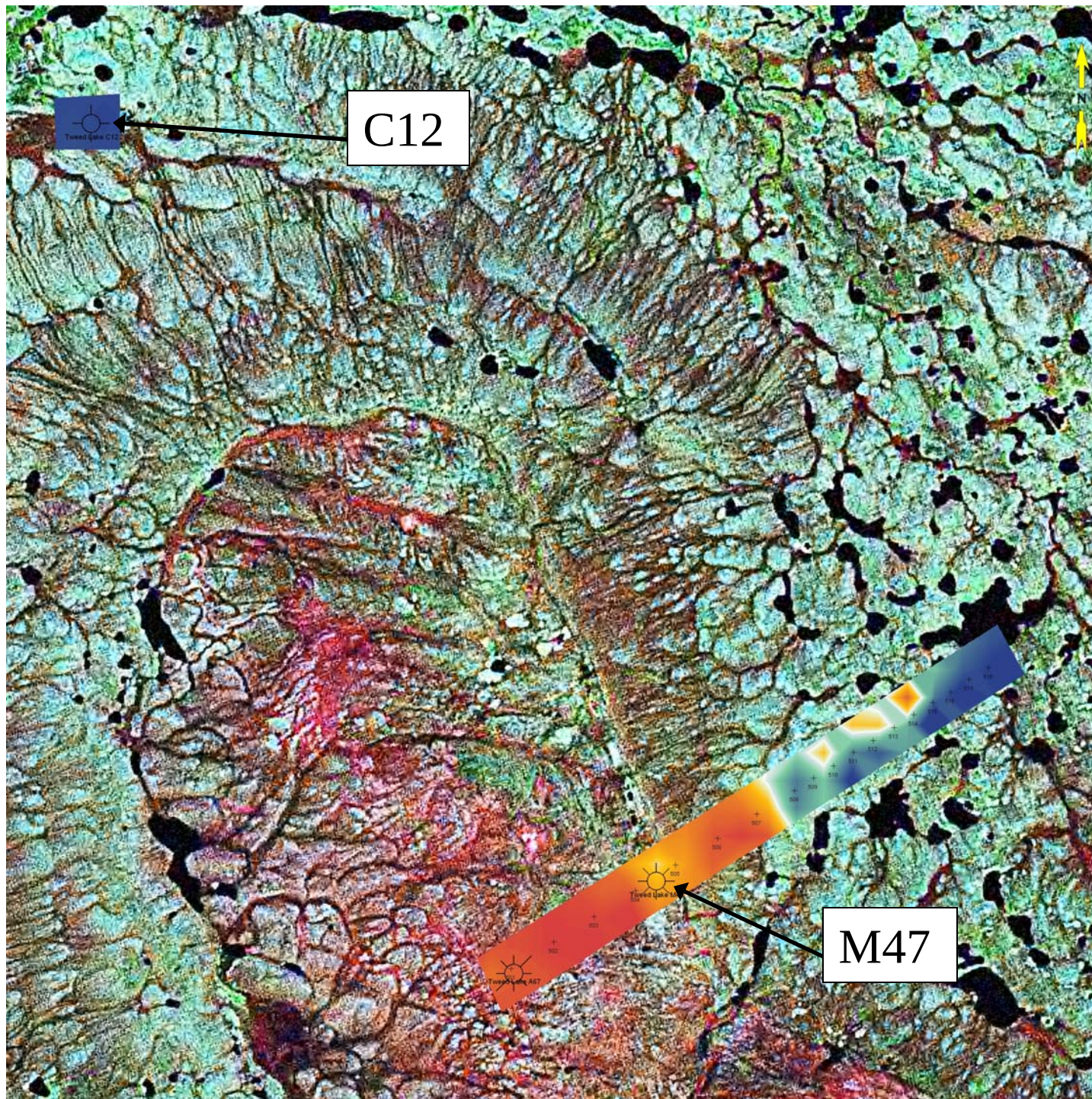
MV Discriminant Analysis



*Mathematical
Projection of
Samples on to
Axis of
Maximum
Separation of
End-Members*

Tweed Lake Model Results

- Individual Samples are Compared to Model End-Member Signatures and given a Probability from 0% to 100% Similarity
- Probability Value for each Sample is plotted and contoured
- Mapped Geochemical Features should be Integrated with Geological Information if Available

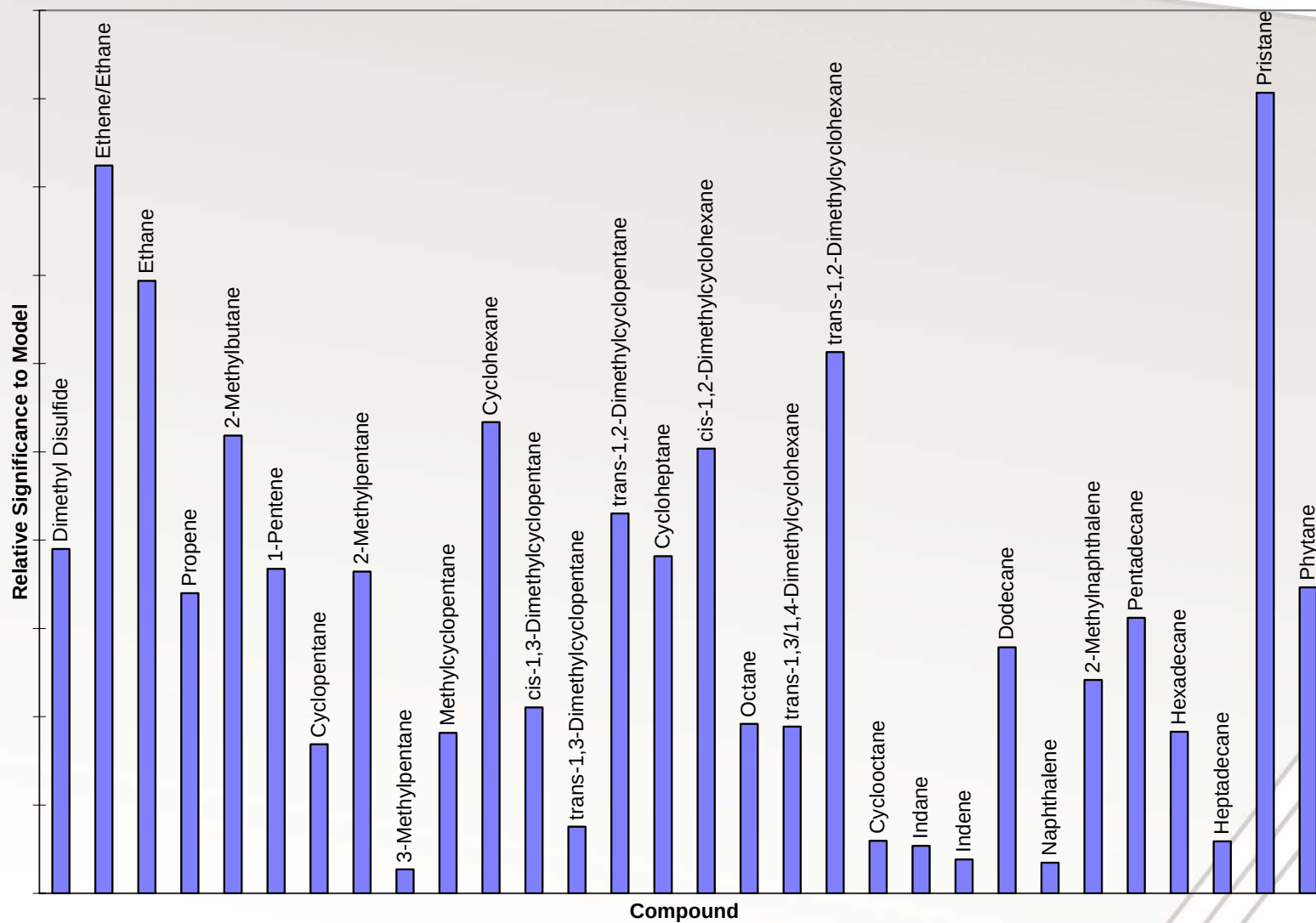


Tweed Lake Result

Geochemical
Feature
Identified at
Tweed Lake

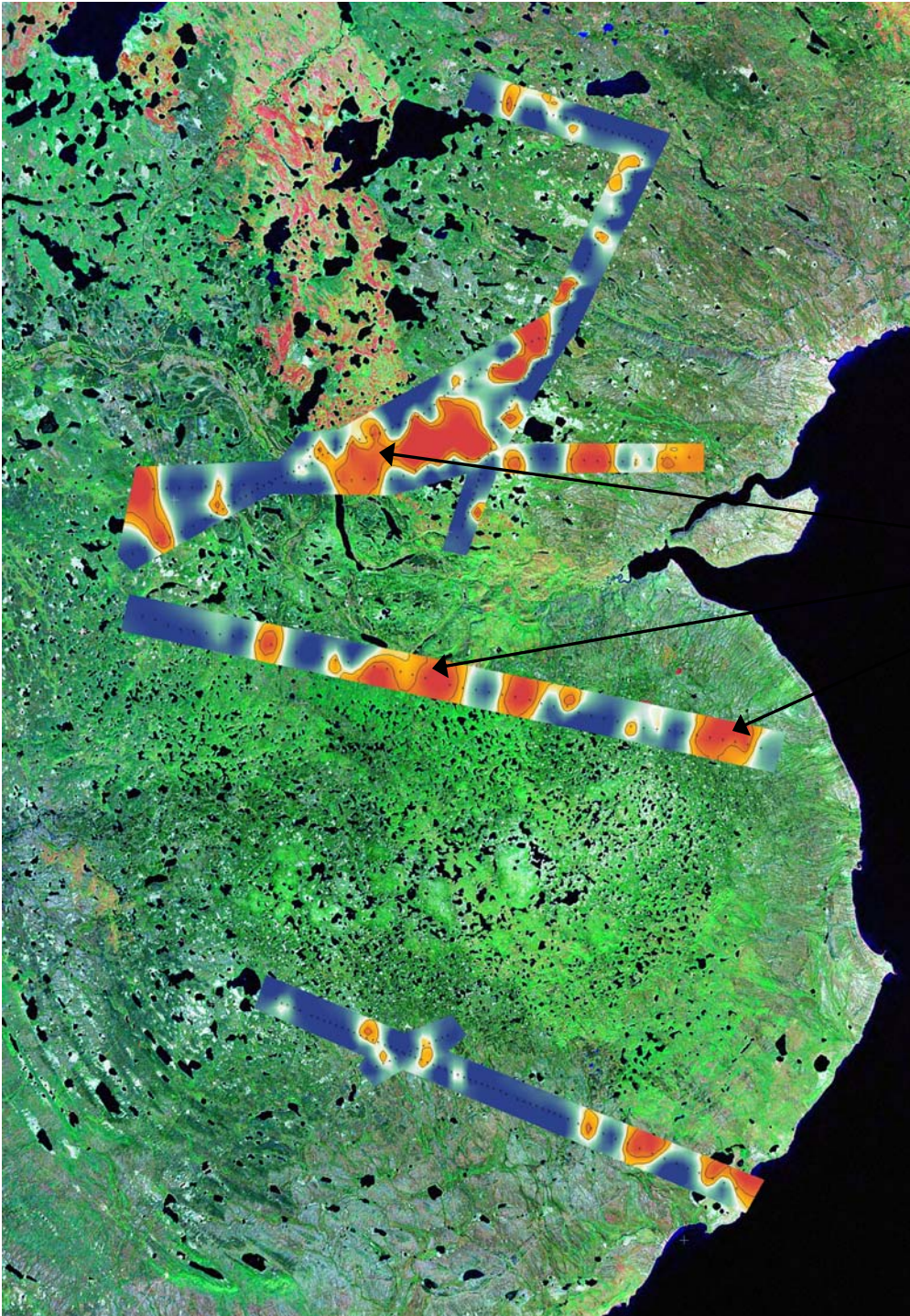
Model of M47
(gas) versus
combined
C12 & Losh
Lake

Tweed Lake Model Signature



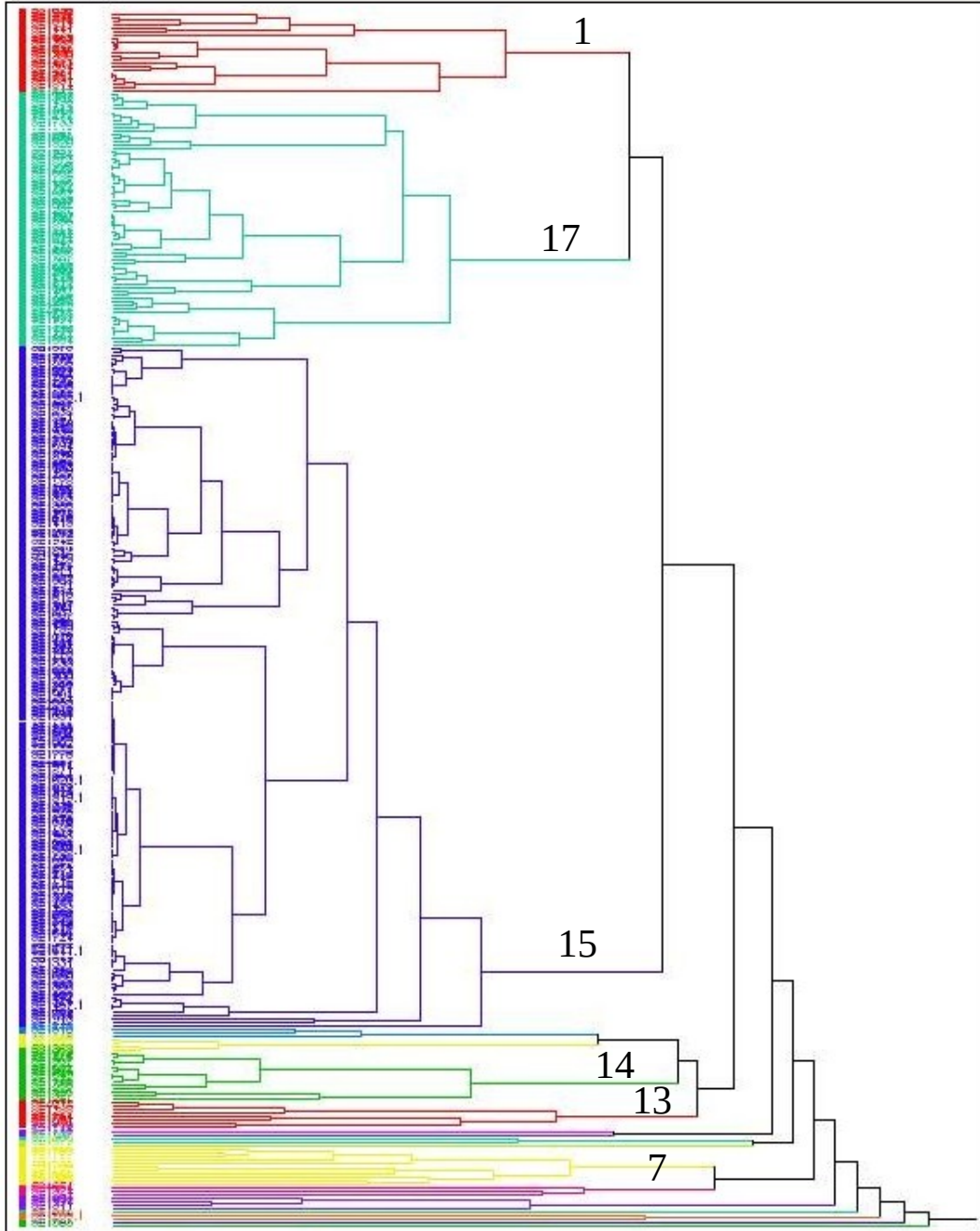
Great Bear Plains Result Based on Tweed Lake Model

Geochemical Features



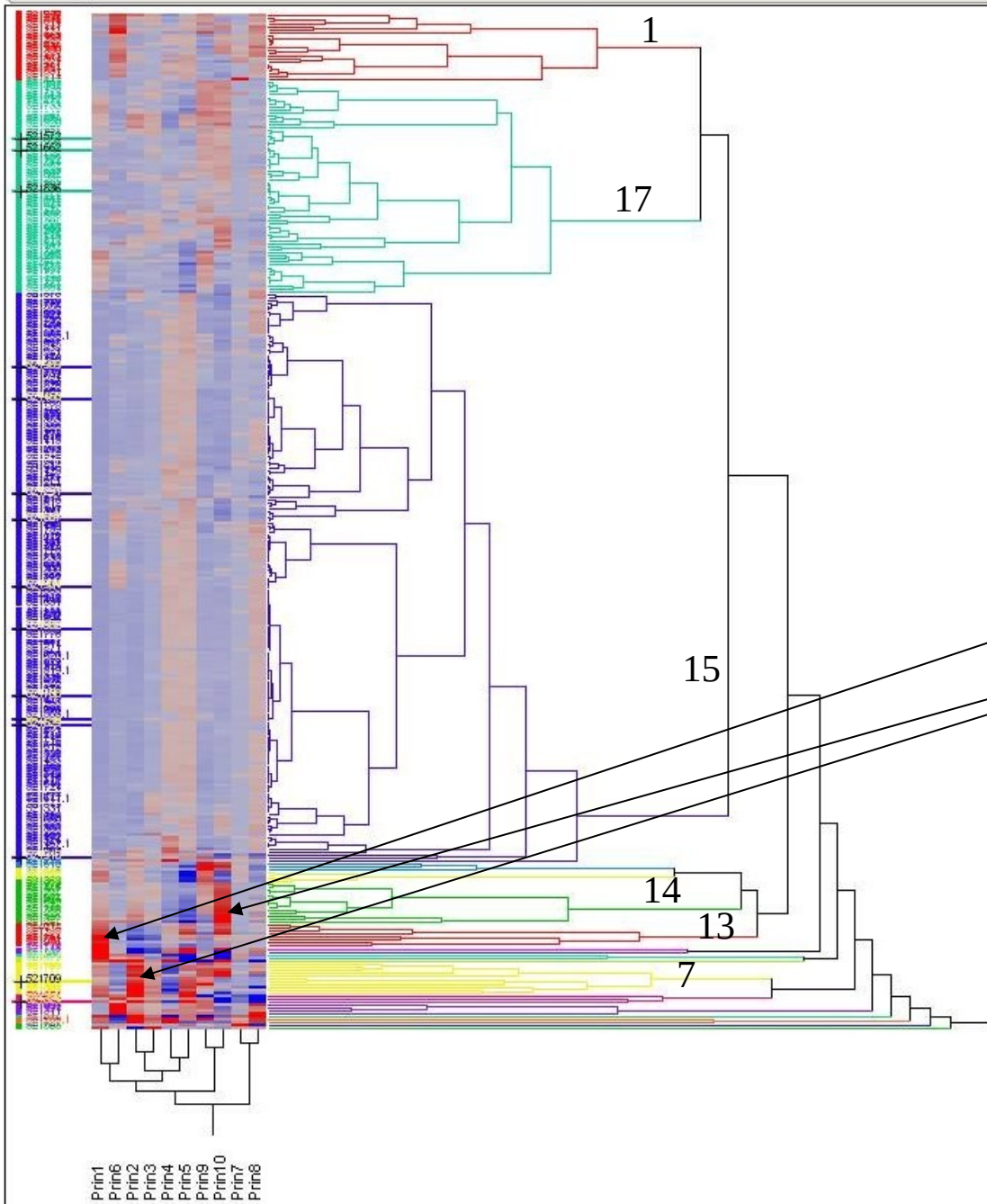
Hierarchical Clustering

Dendrogram



Hierarchical Cluster Based on Great Bear Plains Samples

Dendrogram



Hierarchical Cluster

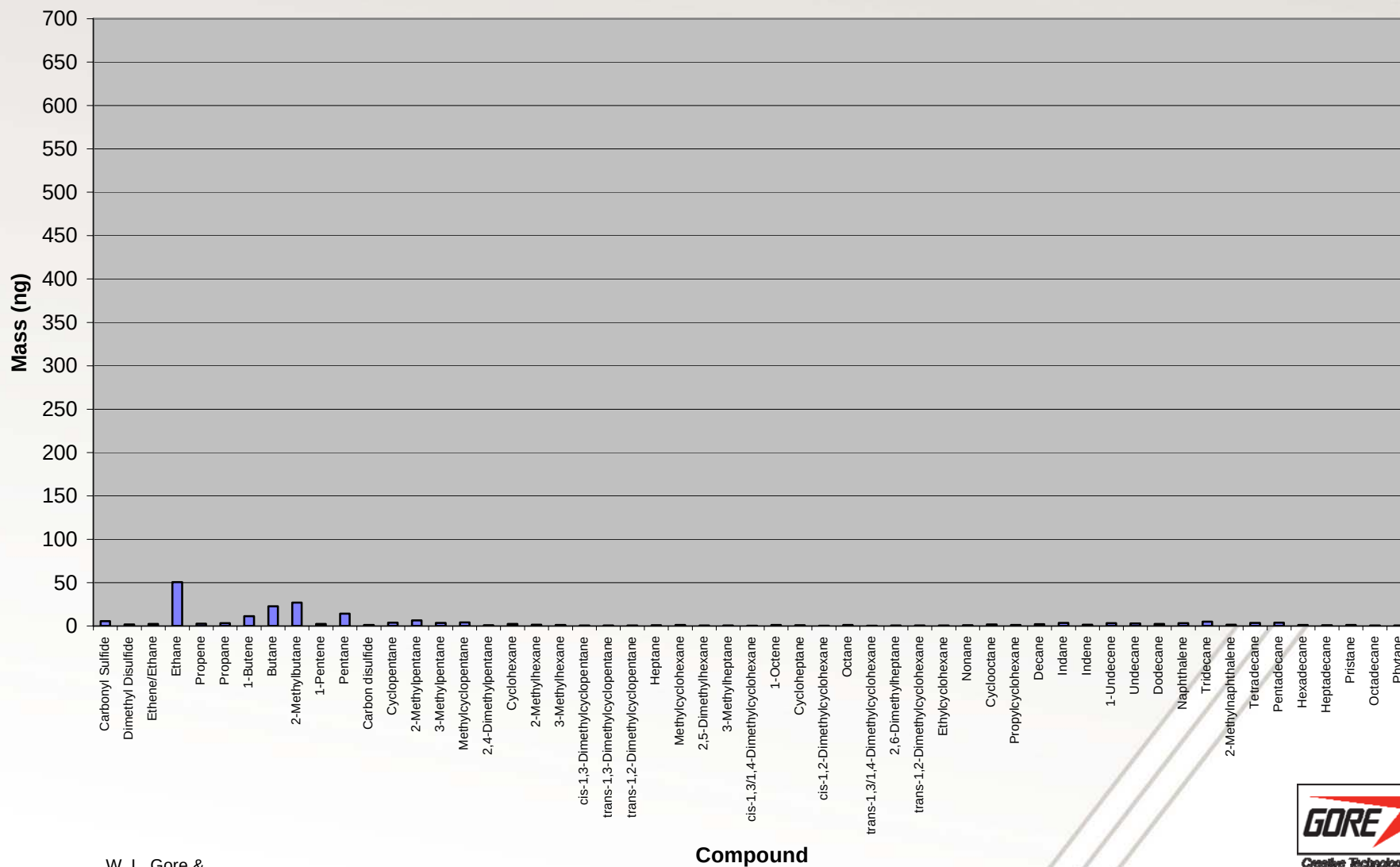
Clusters 15 and 17
Appear Unremarkable
(Background)

Principle Components
Correlated to Clusters

Losh Lake Model
Samples Appear in
Clusters 15 & 17

Cluster 15 Signature

Cluster 15 Signature (Background)

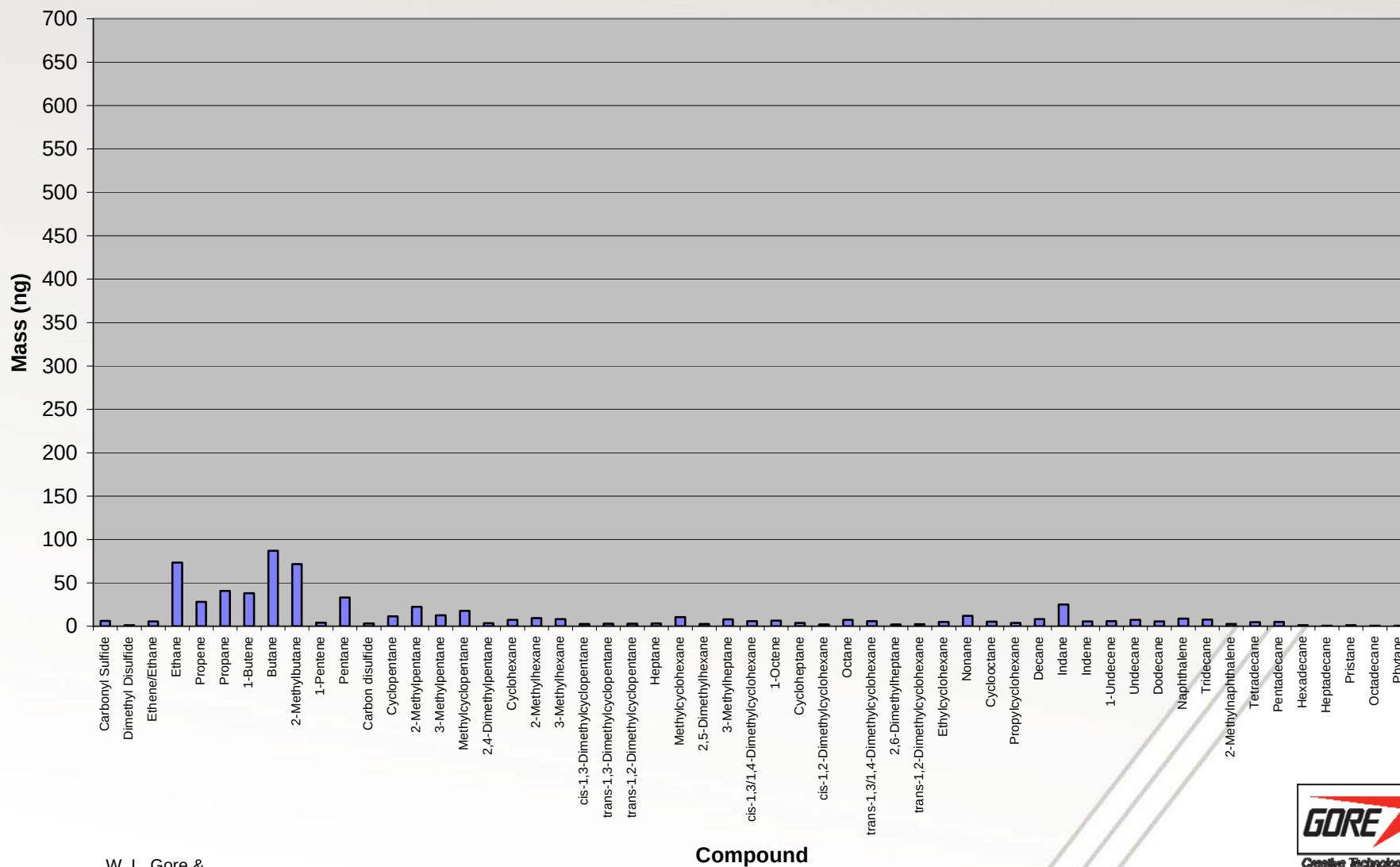


W. L. Gore &
Associates



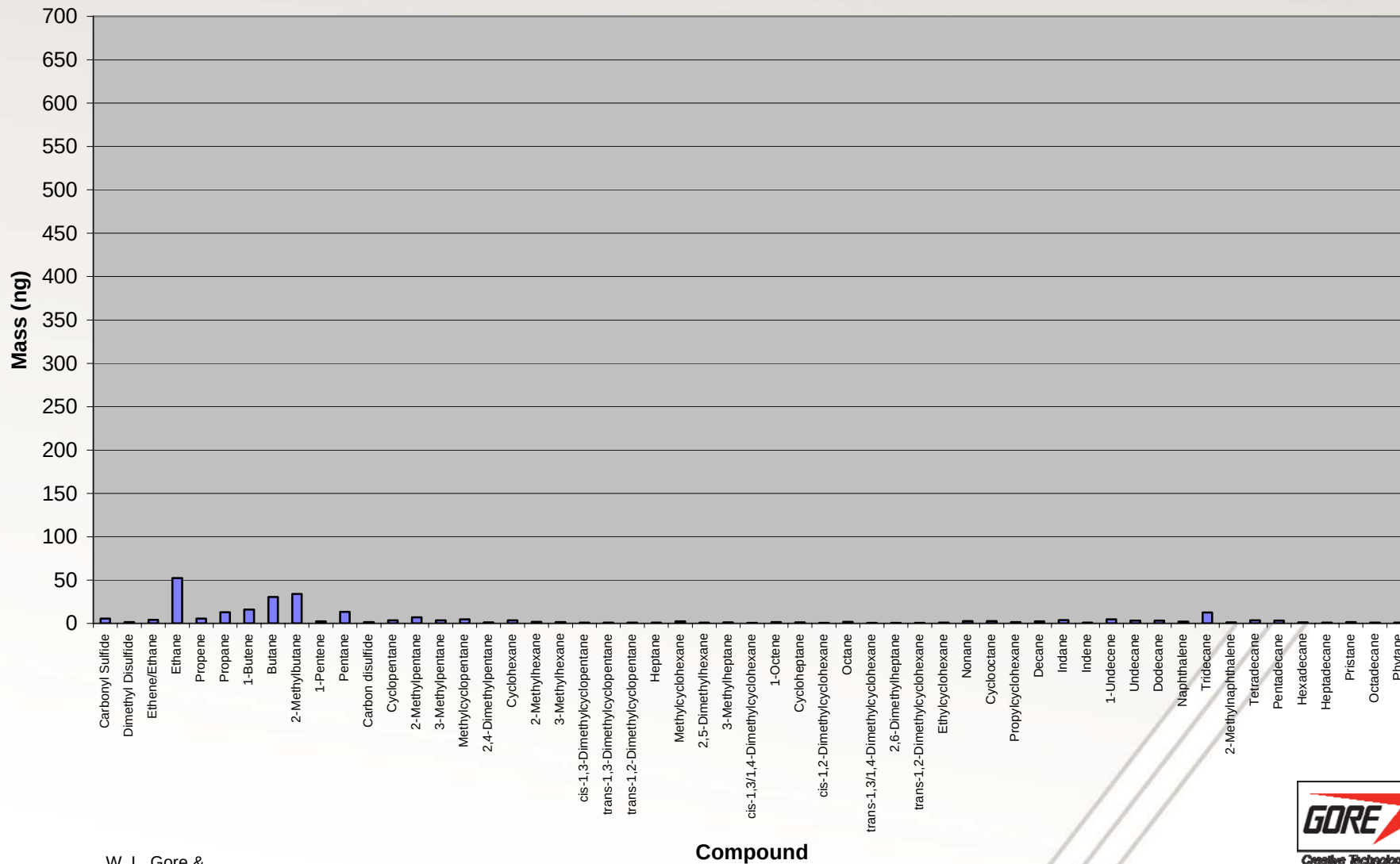
Cluster 17 Signature

Cluster 17 Signature



Losh Lake Signature

Losh Lake Signature

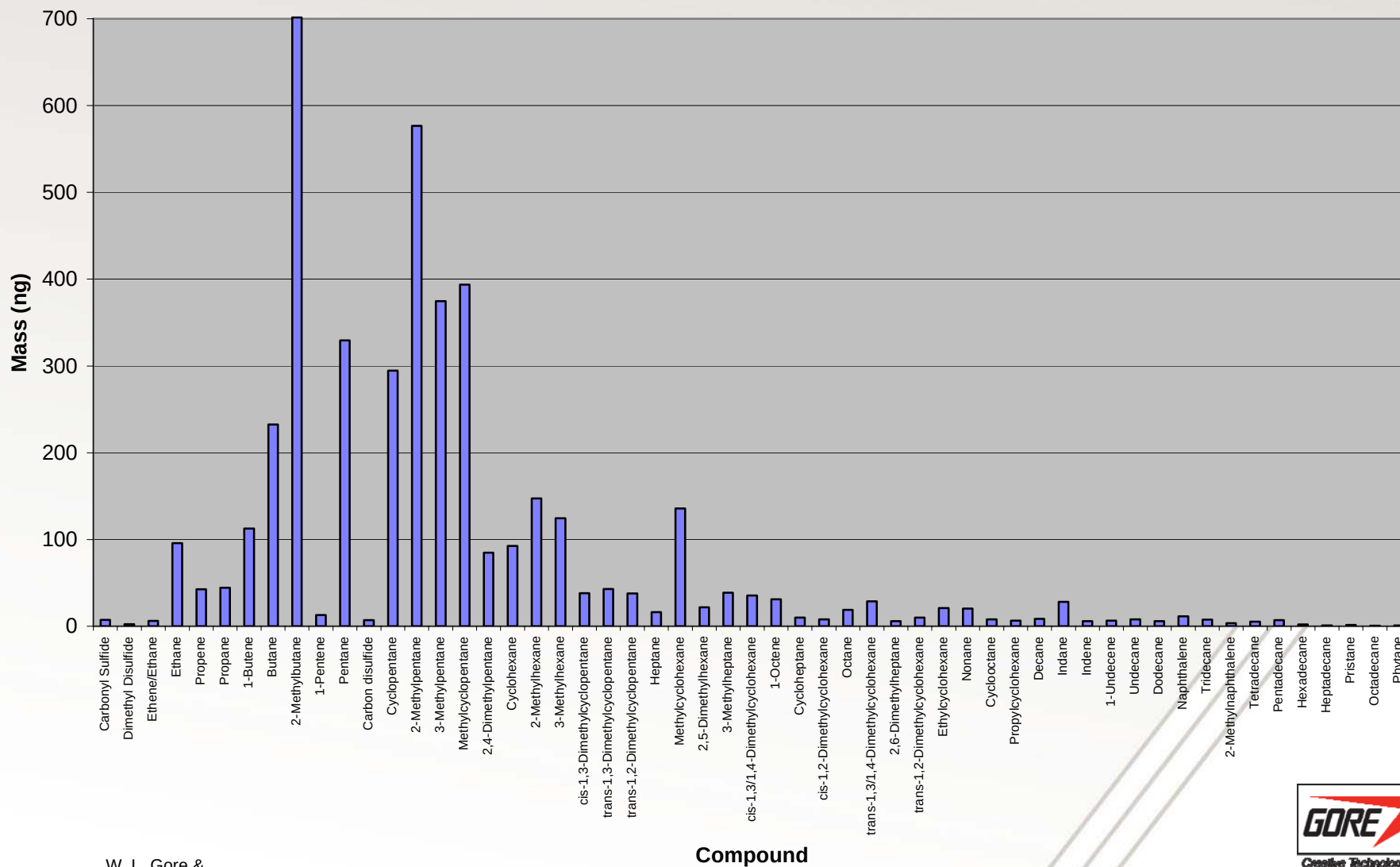


W. L. Gore &
Associates



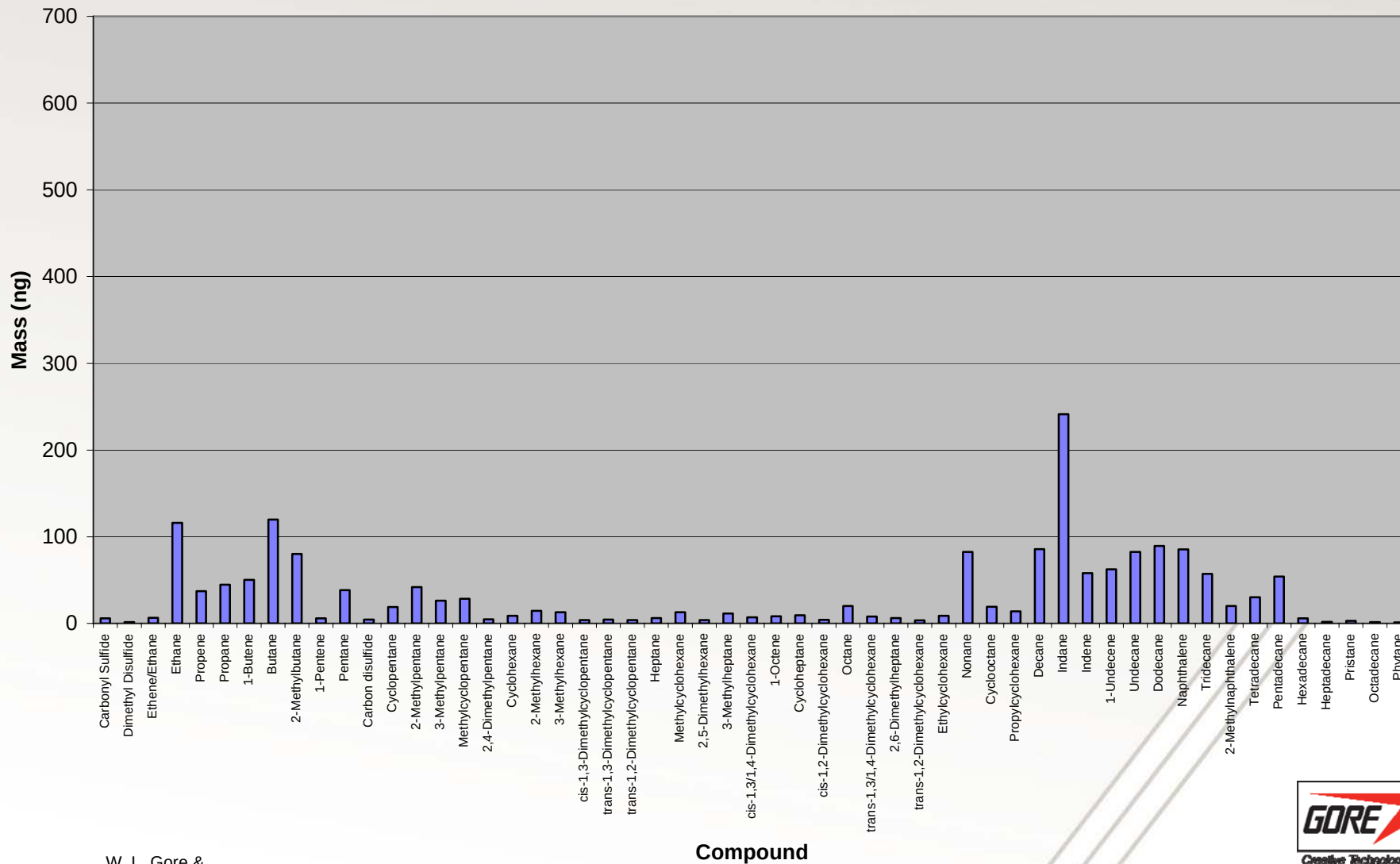
Cluster 13 Signature

Cluster 13 Signature



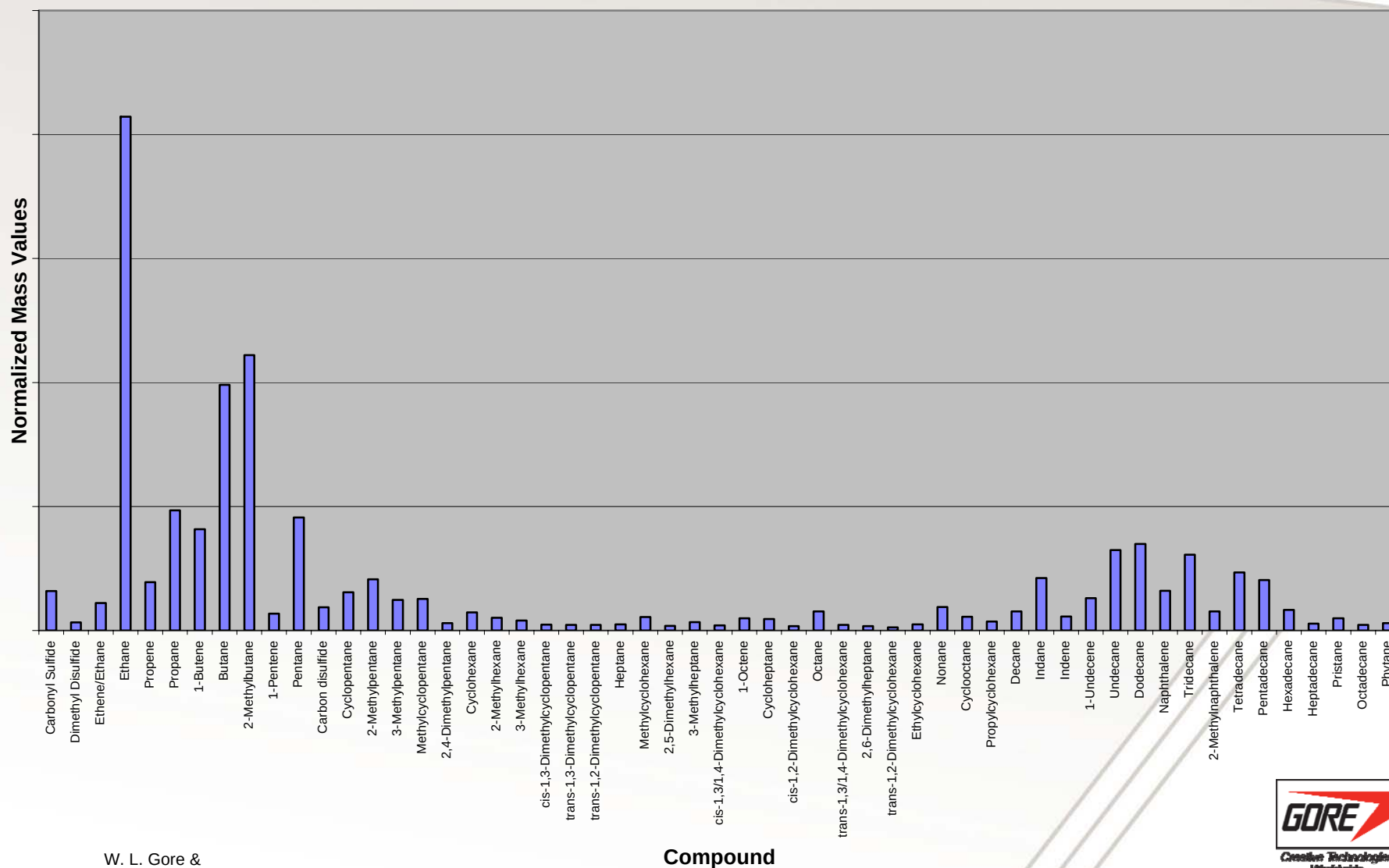
Cluster 7 Signature

Cluster 7 Signature



Tweed Lake M47 Signature

Tweed Lake M47 Signature

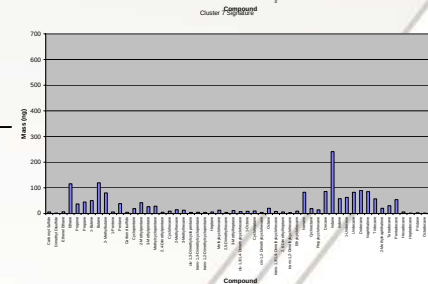
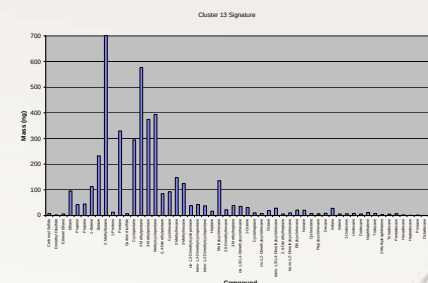
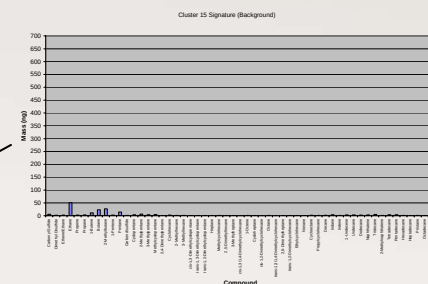
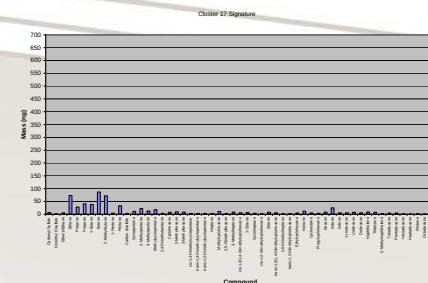
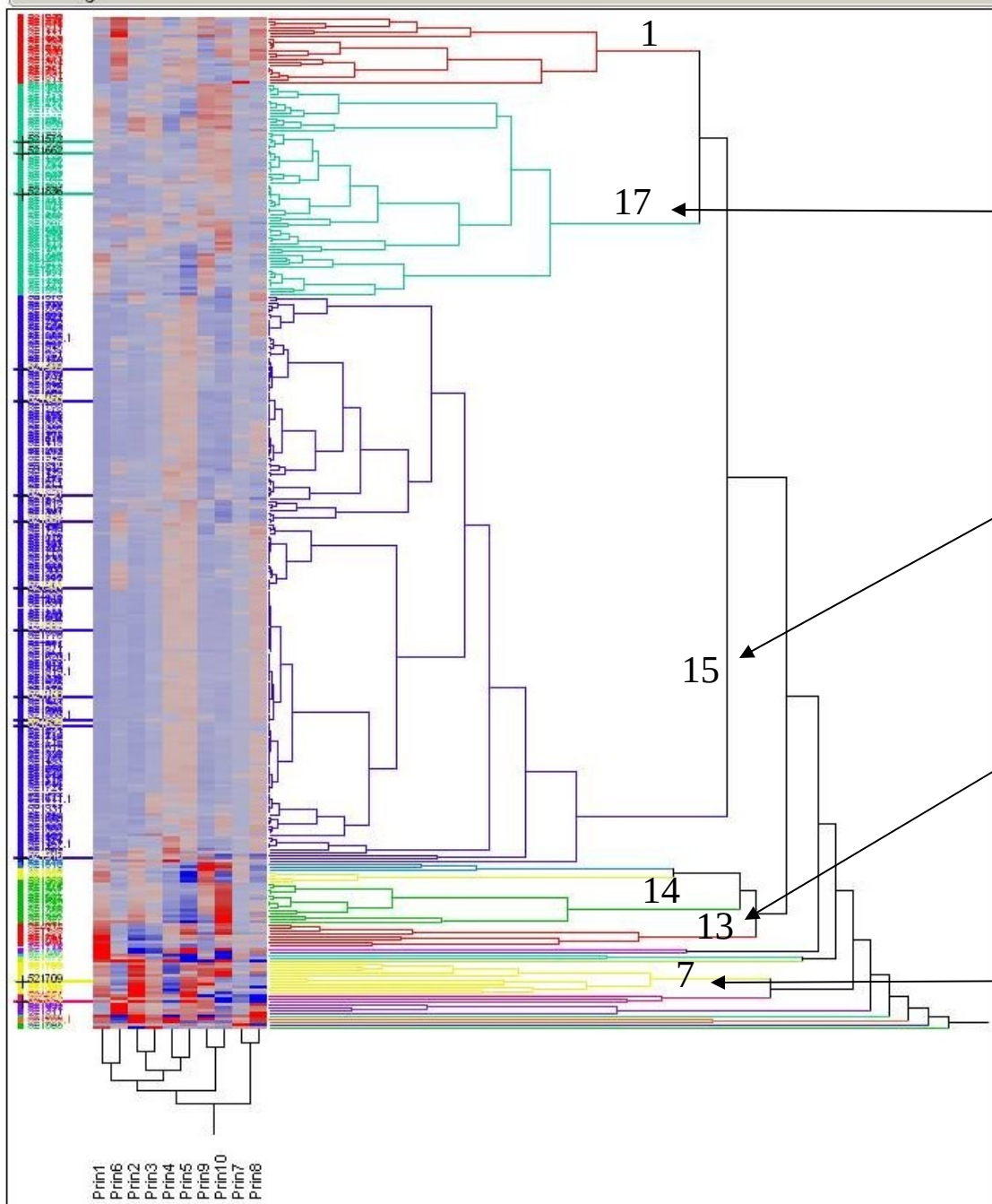


W. L. Gore &
Associates

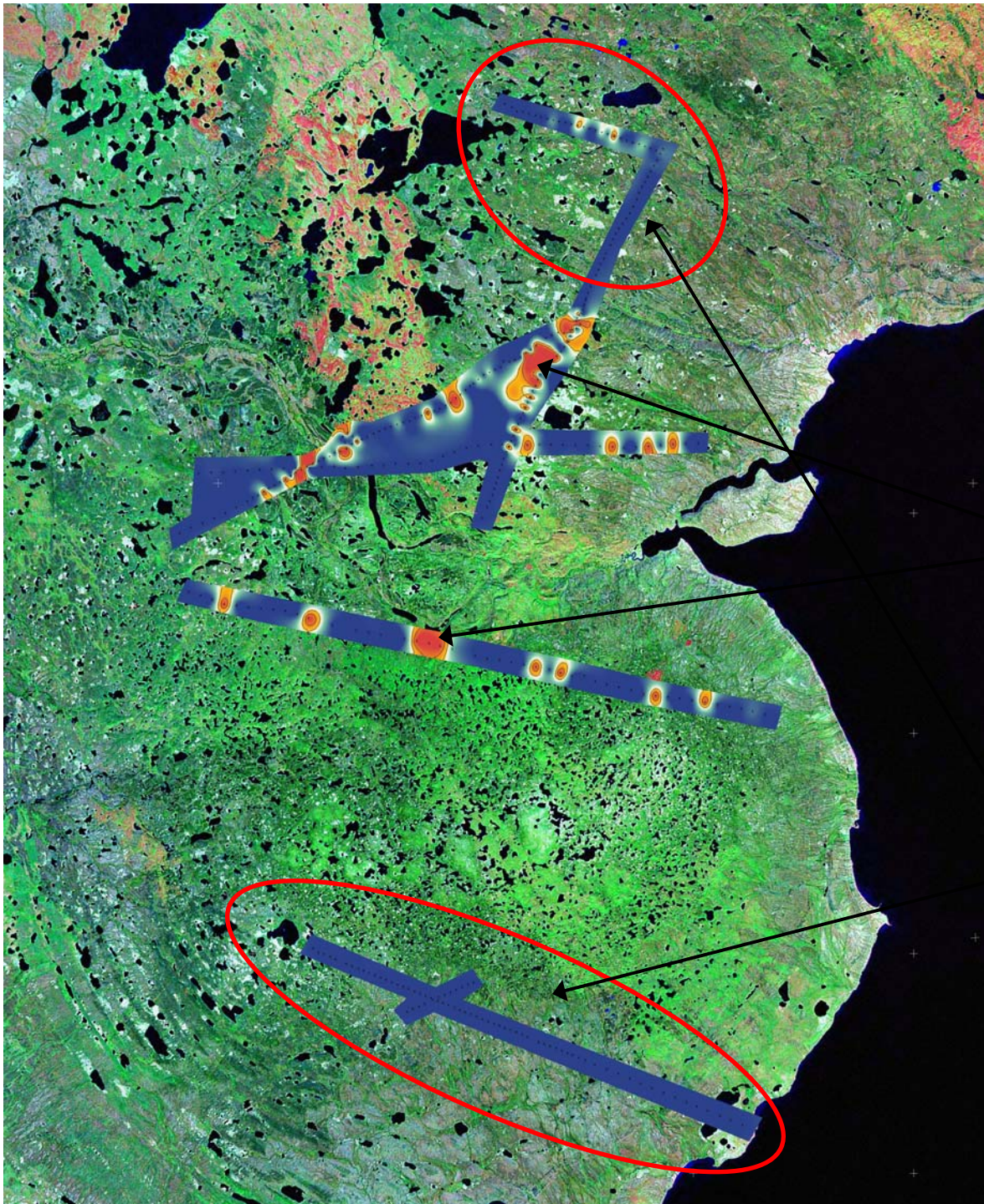


Dendrogram

Hierarchical Cluster

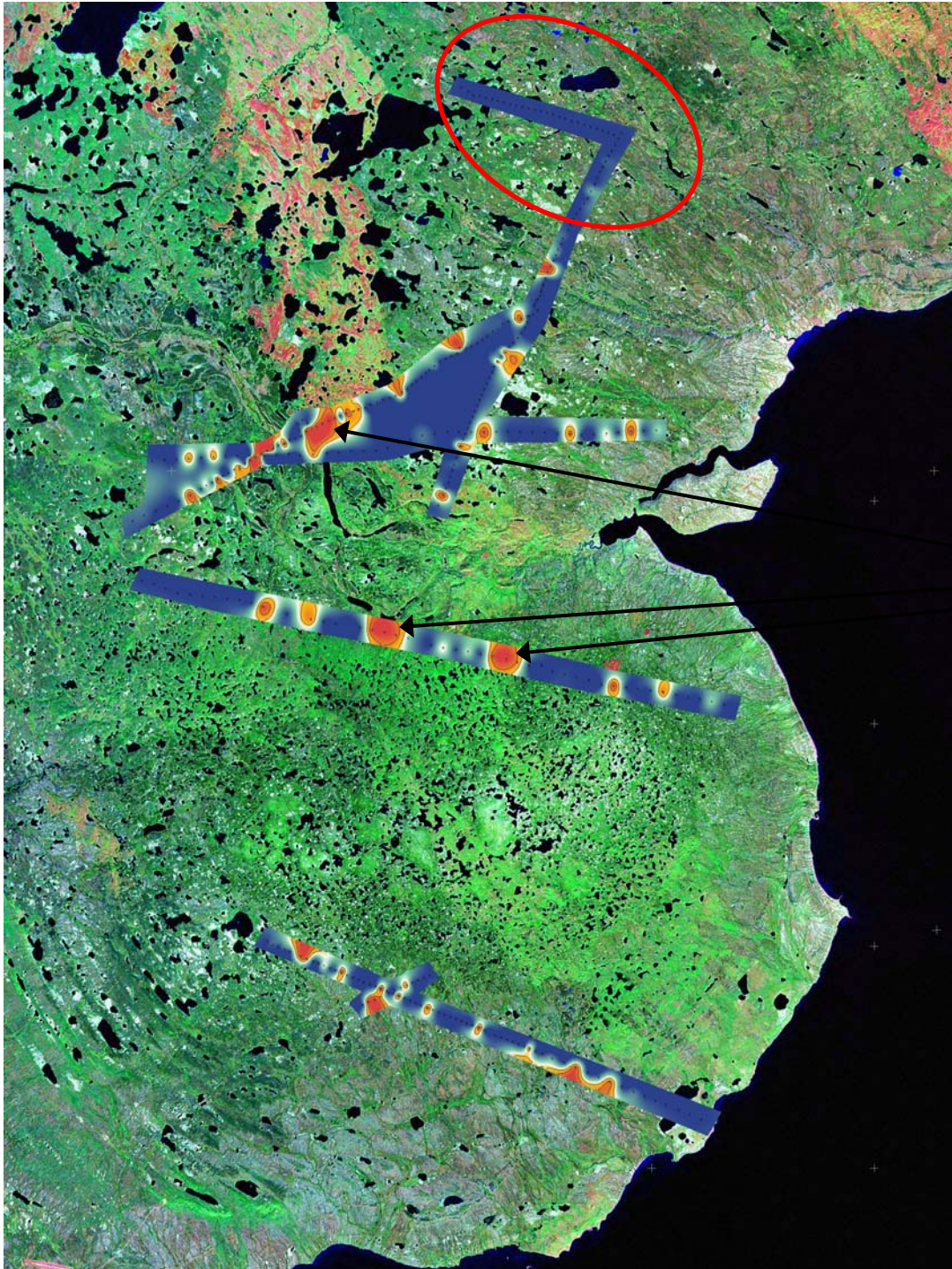


Discriminate Analysis Result of Cluster 13 (Gas- Like) versus Losh Lake Signatures



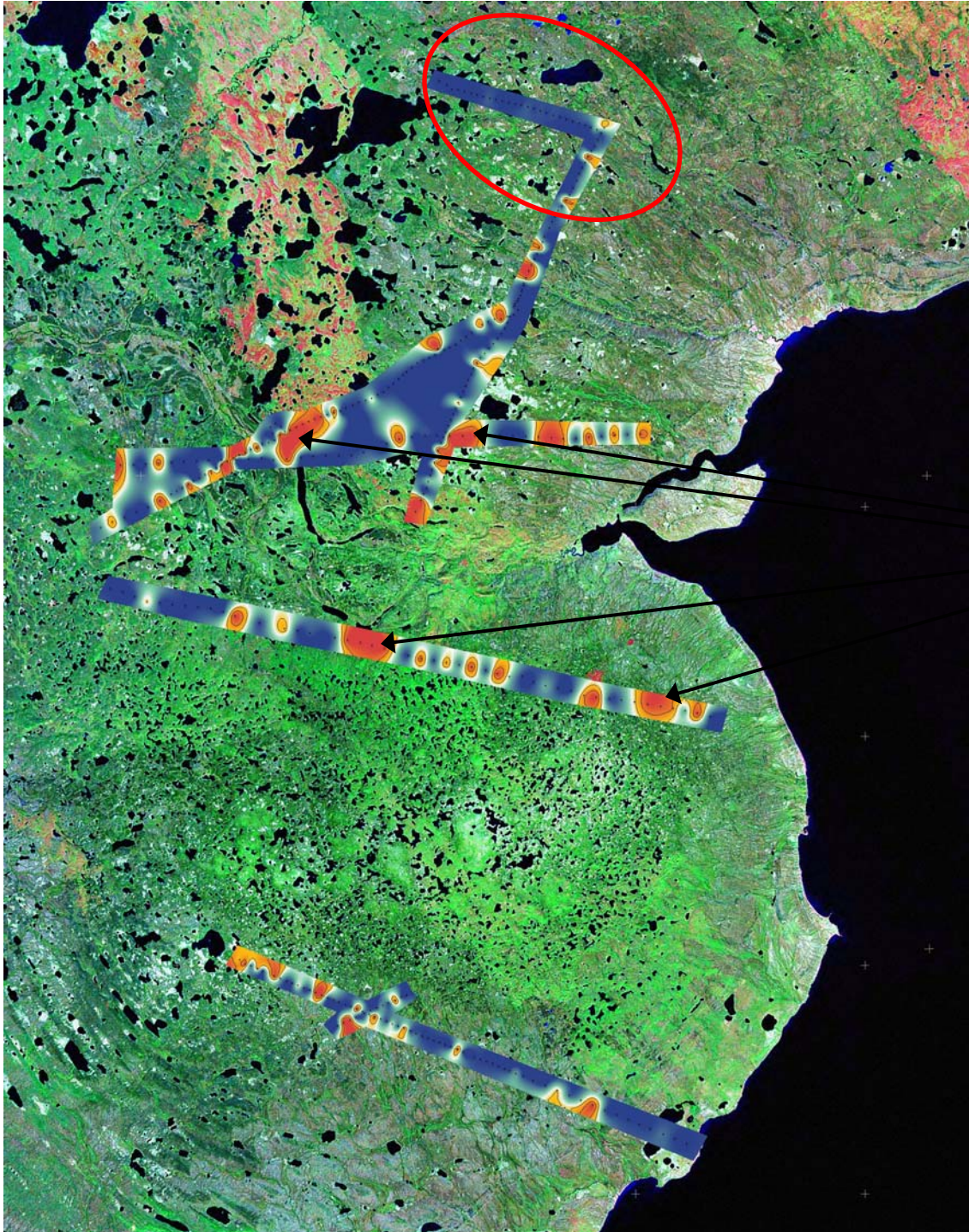
Geochemical Features

Similar to Background



Discriminate
Analysis Result of
Cluster 7
(Gas/Liquids) versus
Losh Lake
Signatures

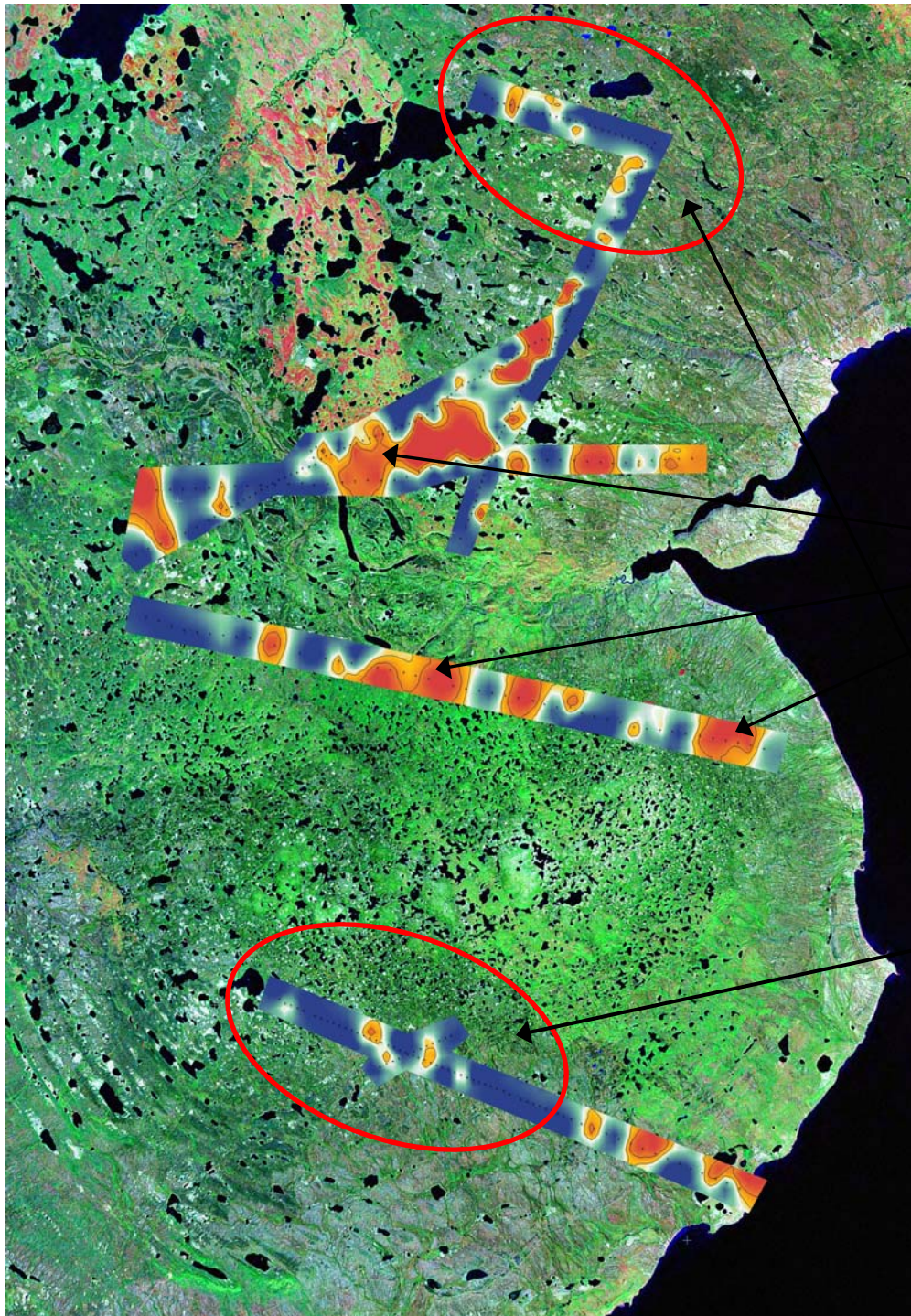
Geochemical Features



Discriminate Analysis Result of Combined Clusters 13 & 7 versus Losh Lake Signatures

Geochemical Features

Great Bear Plains Result Based on Tweed Lake Model



Geochemical Features

Areas of Low Prospectivity

Conclusions

- The results (from both the Tweed Lake model and HCA) indicate the Great Bear Plains survey area has several areas with strong indications of hydrocarbons in the subsurface (gas with a possible liquid component).
- These results also indicate several areas in the Great Bear Plains survey area that appear to have little or no indication of reservoired hydrocarbons.
- Hydrocarbons were detected in the Colville area at the Tweed Lake M47 Well. A geochemical feature was identified along the transect that corresponds with the M47 well and extends southwest to the A67 well.
- These geochemical results should be integrated with available geological and geophysical information.

A wide-angle photograph of a snowy landscape. In the foreground, a snow-covered path or road leads towards the horizon. The middle ground is filled with numerous evergreen trees, their branches heavily laden with snow. The background shows a bright sunset or sunrise, with the sun low on the horizon, casting a warm, golden glow across the sky and reflecting off the snow. The sky is filled with soft, wispy clouds, and the overall atmosphere is serene and cold.

GORE™ Surveys

***‘Amplified
Geochemical
Imaging’***

Thank you,

Survey Products Group

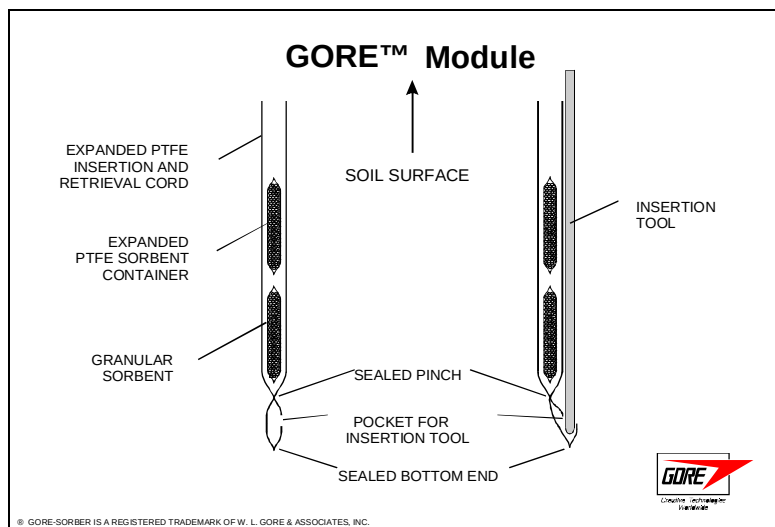
Exploration Survey Applications

The GORE™ Surveys For Petroleum Exploration method is an advanced surface geochemical prospecting tool capable of detecting and quantifying many organic compounds up through phytane. This geochemical sampling system employs the GORE™ Module (patented passive soil vapor sampling device), state-of-the-art chemical analysis and sophisticated statistical geochemical pattern recognition and has evolved from over fifteen years of experience in soil gas geochemical exploration and analytical chemistry. It is capable of differentiating reservoir hydrocarbons from “background” hydrocarbons (emanating from vegetation, shallow pollution, source rock, etc.).

Typical applications of this technique include: 1) Frontier - to determine hydrocarbon potential over large previously unexplored areas; 2) Exploration - focus geophysical efforts, prioritize leads or investigate stratigraphic traps; 3) Development - define the areal extent of producing fields and locate potential areas for secondary recovery. Prudent use and integration of the geochemical results can have significant benefits to the success of an exploration program, resulting in fewer dry holes.

Description of GORE Module Sampling Device

Each GORE Module contains a minimum of two (duplicate) samples and consists of several separate passive sorbent collection units called sorbers. Each sorber contains an equal amount of engineered sorbent materials, specifically selected for their affinity to a broad range of volatile organic compounds and semi-volatile organic compounds (VOCs and SVOCs), while minimizing uptake of water vapor (the principal soil gas constituent in most areas). The sorbers are sheathed in the bottom of a vapor-permeable retrieval cord looped at the top. The loop is used as a means of tying the module to a string for installation and retrieval. The figure below shows a typical GORE Module. The retrieval cord and the sorbent containers (sorbers) are constructed of an inert, hydrophobic, microporous expanded polytetrafluoroethene (ePTFE) membrane. The microporous structure of the membrane allows vapors to move freely across the membrane and onto the sorbent material. The microporous structure also protects the granular adsorbents from physical contact with soil particulates and water ensuring a consistent mechanism for collection of organic compounds (vapor-phase transfer only). The GORE Module is installed to a depth of one to two feet (30 to 60 centimeters) by creating a small pilot hole using a narrow steel rod or similar tool (a long screwdriver works well) and inserting the sampler manually using a narrow insertion tool provided by GORE. The sampler is retrieved by hand and returned to GORE for analysis and data processing.



The unique ability to protect the sorbent media from contact with ground and soil pore water without retarding soil vapor diffusion facilitates the application of the GORE Surveys for Petroleum Exploration method in very low permeability and poorly drained soils and swamp areas.

Quality Assurance (QA) Measures

As standard practice, all modules are individually numbered and tracked throughout the entire manufacturing, field deployment, and analytical process. Completed modules are sealed into clean glass vials, and stored under zero grade air until shipment to the customer. Cleanliness is verified by testing a select number of modules from each manufacturing lot. Prior to shipment, ten inventory blanks are randomly selected and set aside as controls to be analyzed along with returned modules. All modules are transported to and from the customer's site in sealed glass vials and boxes supplied by GORE. Five to ten additional trip blanks are provided to accompany the modules to and from the site for QA/QC purposes. Upon receipt, returned modules along with associated inventory blanks and trip blanks are randomized to minimize analytical biases.

Geochemical Survey Design

Prior to initiating a survey, specific survey objectives are established with the client and an appropriate sampling scheme and modeling strategy are identified. Information relating to target size and type, any preferred reservoir orientation characteristics, such as a channel sand, and the existence of analogous production and specific well characteristics and production history are important factors in developing an appropriate survey design. Of paramount importance are the decisions expected to be made based on the geochemical results. The survey design must be

sufficient to support or minimize the uncertainty of decisions affecting the “next step” in the exploration program.

Sampling plans typically follow a grid pattern with regular or variable spacing of samplers, sampling traverses, or a combination of both. Sample spacing generally ranges from 300 meters to one kilometer. Appropriate wells are selected for the purpose of modeling surface geochemical character over analogous production and dry/background areas.

Exploration Survey Installation and Retrieval Procedures

Installation of the modules is performed either by experienced subcontract field personnel or by the customer. The GORE Module is installed to an average depth of one to two feet (30 to 60 cm) below grade by driving a narrow (1cm diameter) pilot hole with a narrow steel tool (such as a long screwdriver) and a mallet, if necessary.

After the pilot hole is completed, modules are tied to a section of cord and inserted into the completed boreholes, using the stainless steel insertion rod supplied by GORE. The cord is secured at the ground surface by collapsing the hole. The location of the sample is marked on a map and location coordinates are secured where possible with a global positioning system (GPS) receiver, preferably equipped with a buffer for data storage and subsequent download to a personal computer. Additional modules that are designated as trip blanks should be noted on the installation/retrieval log and left (unopened) in the shipping box for the duration of the field exposure.

Module retrieval requires that field personnel locate the retrieval cord and manually pull the module from each location. The cord is separated from the module and discarded properly. The exposed modules are resealed in their respective designated shipping vials and placed in the supplied shipping box. Boxes with field-exposed modules and trip blanks are returned along with the Chain-of-Custody (COC) form to GORE's laboratory in Elkton, Maryland in the United States, usually via overnight courier.

Module Exposure Time

GORE's suggested target time for module exposure in the ground is 17 days. This time period has been evaluated over the course of thousands of surveys and has been found to be optimal for most regions and climatic conditions. However, this period is at times modified to accommodate special site conditions such as excessive rainfall, extreme cold, etc.

Analytical Procedures

All GORE Surveys for Petroleum Exploration samplers are inspected upon receipt at the GORE laboratory. Among the conditions checked are sampler container seal integrity, condition of the samplers, and proper sequence of sampler numbers. Samples are then transferred to a temporary storage location until analysis.

Each GORE Module contains a minimum of two duplicate samples, which are available for analysis. One sample is extracted from the GORE Module prior to analysis by cutting the bottom of the retrieval cord. The duplicate samples remain in sample storage until discarded. All soil gas samples are analyzed by thermal desorption followed by gas chromatographic separation and mass selective detection (TD/GC/MS). The laboratory analytical method has been developed by GORE specifically for application with petroleum geochemical exploration and yields chemical data for a wide variety of organic (including thermogenic) compounds up through C₂₀ (phytane).

Before each analytical run sequence, a system flush (an empty thermal desorption tube), a sampler exposed to BFB (bromofluorobenzene), a method blank, calibration standards, and an instrument blank are analyzed. Method blanks, calibration standards, and instrument blanks are analyzed at the beginning, middle, and end of the run sequence. QC samples are evaluated according to set criteria to ensure proper system performance. If after review the system is found out of control, appropriate actions are taken, and the replicate samples are analyzed. Compound identification is based on the presence of appropriate target compound mass fragments within a specific retention-time window, as determined through use of reference standards.

Trip blank samples, which are shipped with the survey modules and are selected at random by field personnel, are also analyzed. Prior to data processing, trip blank, method blank, inventory blanks and instrument blank data are reviewed to identify potential ambient exposures, or laboratory conditions, which may affect data quality.

GORE's laboratory operates under the guidelines of its "Quality Assurance Manual, Operating Procedures and Methods".

Data Processing and Modeling

The GORE Surveys for Petroleum Exploration incorporates sophisticated statistical processing and modeling of the complex geochemical signatures (up through phytane) obtained for each sample. Some of the processes used include hierarchical cluster analysis and discriminant analysis.

Hierarchical Cluster Analysis

Hierarchical cluster analysis (HCA) is often called an "unsupervised" multivariate technique, since no additional information other than the data itself is required to perform the operation. That is, it is not necessary to identify "end-members" of the data or qualify the data in any manner in order to perform subsequent comparison or evaluation of the data, as is the case with multivariate classification techniques. HCA proceeds by grouping samples of like composition according to the values of all input variables. The result is a list of subsets of samples of the data, which are alike (forming "clusters" of similar samples). Since the input variables of the data are in the form of hydrocarbon compound intensities, the clusters are subsets of chemically similar samples. The HCA method is used to determine the structure of a set of data when no other geological or geophysical information for the prospect is available. The results of HCA may be used to further classify the samples of the data (i.e.; whether particular samples show petroleum hydrocarbon influence).

Principal Components Analysis

Principal components analysis (PCA) is a data processing technique which is used to transform a set of data from measured variable space into components space. The measured variables are for target organic compound response values, and it is understood that many of the various compound recordings for this geochemical method are correlated: as the amount of one compound varies, so will vary one or more other measured compounds. The components derived through PCA are by definition not correlated so that, viewing the components as coordinate axes in a data space, the components are orthogonal. With n measured variables as input to PCA, n components are calculated. By definition, the orientation of the components is determined by the primary variance orientation in n -space. Hence component “1” is oriented along the prime variance of the data, component “2” is constrained to be orthogonal to component “1” and oriented along the next most variant direction, and so forth for the entire n component set. There are significant advantages offered by PCA, particularly for this form of data (surface geochemical measurements of volatile organic compounds). One has subsequently fewer data variables to process, without loss of information (recalling that many of the original measurement variables are correlated). Also, the components are linear combinations of the original measurement variables and are more akin to geochemical influences, being mixtures of numerous compounds. One further advantage to components is that they facilitate plotting the data, and hence allow easier evaluation of data trends and outlier identification.

Canonical Variates Analysis

Canonical variates analysis (CVA) is a data processing technique that is used to investigate the relationship between subsets of samples, as represented by the centroids of the sample subsets. The technique determines the orientation of the data space, such that the defined sample subsets are viewed as most separate. The separation between sample subsets is then expressed as a linear combination of measurement variables, and the relationships between subsets can be evaluated more efficiently. Given a data matrix of n variables, and m subsets of samples, this technique will derive minimum of $(m-1, n)$ canonical variates. In practice, we use CVA to evaluate whether there is reasonable separation between subsets of samples in the chemical measurement space. Typically, the input sample subsets comprise various blank sample classes and the samples deployed across a survey area. If distinct separation is noted between field samples as a class, and blank samples, then one can be reasonably assured that the field sample data is meaningful (in the sense that it is not “manufactured” signal).

Discriminant Analysis

Discriminant analysis (DA) is a multivariate data classification technique. At least two subsets of input samples must be identified as belonging to separate groups (with any such “group” of samples presumably representative of a particular physical influence in the sampled environment). The DA technique will then find the best separation of the groups in a minimum residual sense, in terms of the input variables for the samples. Since the input variables are of a chemical nature, the separation of the sample groups is expressed as a chemical difference between the groups. The classification of samples of unknown influence is then performed; each unknown sample is compared to the identified groups of samples and a probability of match to each sample group is

calculated. Therefore, if a group of samples is identified as petroleum-influenced, and another group of samples is identified as being like geochemical background, DA will statistically describe the difference between these two groups. The comparison of unknown samples to these two groups will yield for each unknown sample a probability of being like the petroleum influence, as well as a probability of being like the geochemical background influence.

Contour Maps of Geochemical Probabilities

The results of a GORE Survey for Petroleum Exploration are expressed in terms of probability that a given grid sample exhibits the surface geochemical character associated with known reservoir hydrocarbon accumulations, as defined by model set samples placed around analogous production wells and dry or background wells. Derived model probability values are contoured and may include other ecological structural information provided by the customer. Either minimum surface curvature or kriging models are employed. Typical map plot sizes range from “B-sized” (11” x 17”) to “E-size” (24” x 36”). The electronic site plan base map(s) provided by the customer should include a scaled drawing (with relevant site features), digitized in ground coordinates (UTM, State plane, etc). Map projection information should also be included.

Reporting of Results

The results of the GORE Survey for Petroleum Exploration are summarized in a report, which includes a review of survey objectives, design, modeling information and results. Field summary documentation, grid sample model probability summary table, and color contour maps of petroleum-like probability distribution (compared to the model) are also included.

Interpretation and Integration of Petroleum Exploration Survey Results

Survey results should always be integrated with other geological or geophysical information to prioritize areas for further exploration.

In reviewing the results of a specific survey the following factors should be considered:

Fault Zones: Greater emanation of hydrocarbons is generally associated with fault zones. Additionally the geochemical signature of emanations along a fault zone will differ from that of the geochemical model developed over a reservoir. Thus, near surface free petroleum associated with fault zone seepage would not be expected to correlate to or appear anomalous with respect to a model developed over a reservoir accumulation.

Correlation with Structures: A geochemical anomaly map is a surface plan view of the distribution of all contributing analogous petroliferous geochemical influences throughout the stratigraphic column. The detected anomalies may correlate with structural traps on one or more horizons, or with stratigraphic traps that have not been resolved with geophysical methods; similarly a potential target may be shown to be geochemically unprospective.

Contour Plots: The geochemical maps represent an objective computer-derived probability value surface interpolated from sample values. No effects or influences from the underlying geology (such as fault boundaries or other structures) are specifically accounted for in the contour interpolation. However, such boundary conditions or other geological features *should* impact the configuration of a geochemical anomaly. The exploration geoscientist is encouraged to independently hand contour the probability surface using his or her expert geological and geophysical knowledge of the prospect or region (integration of information).

Contour Uncertainty: Probability values are most accurate at the sampled locations. The contour surface developed between the data points is an estimate of the probability and is subject to uncertainty, which increases with distance from each sample location. Further resolution of the contoured surface may be appropriate through additional soil gas sampling depending on the end-use of the data.

APPENDIX C:

Field Documentation and Survey Sampler Information

1. GORE Sample Reconciliation Summary (by Module #)



Sample Reconcile.xls

[link to electronic file]

2. Field Documentation from PEREGRINE



Field Information.xls

[link to electronic file]

Talisman Great Bear Plains Survey
Model Probability Values

Talisman Energy Inc.

13045661 EL437 NWT

Coordinates are UTM Zone 10 NAD 83 Datum

INDEX ID	MODULE #	Easting	Northing	Status	Cluster Group	Probability Value	Probability Value	Probability Value	Probability Value
						Model Tweed Lake M-47	Model Cluster 13	Model Cluster 7	Model Clusters 7 & 13
101	521630	489159	7244856	Grid	1	0	0	12	77
102	521502	488677	7245042	Grid	15	6	0	12	93
103	521938	489368	7244767	Grid	15	0	0	0	0
104	521706	488909	7244960	Grid	15	67	0	0	5
105	521574	488463	7245195	Grid	1	0	0	0	61
106	521557	490986	7244107	Grid	1	0	0	4	5
107	521882	491687	7243819	Grid	6	95	0	23	100
108	521449	491921	7243719	Grid	15	1	0	0	3
109	521454	492614	7243435	Grid	17	0	0	0	0
110	521993	491436	7243923	Grid	6	8	0	100	100
111	521487	490307	7244381	Grid	17	0	0	0	0
112	521396	490052	7244483	Grid	17	0	0	75	36
113	521625	492150	7243625	Grid	15	19	0	1	9
114	521531	491225	7244012	Grid	17	0	0	0	0
115	521932	490526	7244290	Grid	17	0	0	1	0
116	521538	490749	7244201	Grid	1	0	2	60	58
117	521290	492828	7243350	Grid	15	4	0	0	0
118	521431	492364	7243541	Grid	15	92	0	0	1
119	521985	489822	7244584	Grid	15	0	0	99	99
120	521644	493293	7243163	Grid	1	0	0	6	24
121	521620	498146	7241209	Grid	15	0	0	0	0
122	521693	494231	7242780	Grid	15	97	0	0	0
123	521482	496300	7241954	Grid	15	0	0	0	0
124	521303	496084	7242036	Grid	15	0	0	0	0
125	521641	498624	7241016	Grid	15	0	0	0	0
126	521770	495860	7242116	Grid	15	0	0	0	1
127	521547	493759	7242972	Grid	17	0	0	98	90
128	521897	499067	7240834	Grid	17	0	0	76	3
129	521708	495618	7242212	Grid	17	0	0	0	0
130	521714	497902	7241297	Grid	15	0	0	0	1
131	521432	495383	7242313	Grid	15	100	0	0	13
132	521698	493059	7243251	Grid	7	0	0	100	96
133	521267	494683	7242596	Grid	17	0	0	1	0
134	521564	498385	7241117	Grid	15	7	0	0	0
135	521507	497006	7241690	Grid	7	0	0	100	94
136	521463	494914	7242504	Grid	1	1	0	91	86
137	521859	498858	7240923	Grid	17	0	0	2	0

Talisman Great Bear Plains Survey
Model Probability Values

INDEX						Probability Value	Probability Value	Probability Value	Probability Value
ID	MODULE #	Easting	Northing	Status	Cluster Group	Model Tweed Lake M-47	Model Cluster 13	Model Cluster 7	Model Clusters 7 & 13
138	521260	497667	7241377	Grid	15	0	0	0	1
139	521442	497234	7241585	Grid	15	0	0	0	0
140	521737	495153	7242404	Grid	17	0	0	31	2
141	521348	496525	7241862	Grid	15	0	0	0	0
142	521393	494464	7242688	Grid	15	5	0	1	56
143	521611	496767	7241787	Grid	17	0	0	0	0
144	521582	493995	7242880	Grid	15	69	0	0	29
145	521337	493553	7243059	Grid	15	0	0	1	40
146	521900	503265	7239102	Grid	17	15	0	15	0
147	521981	502312	7239495	Grid	1	87	0	86	99
148	521580	500461	7240258	Grid	15	100	0	1	2
149	521650	501392	7239873	Grid	15	0	0	0	8
150	521569	505086	7238350	Grid	15	99	0	0	13
151	522013	506000	7237977	Grid	15	87	0	0	0
152	522009	504141	7238740	Grid	15	0	0	2	1
153	521870	501851	7239681	Grid	15	100	0	16	36
154	521551	502791	7239294	Grid	15	96	0	1	7
155	521887	499588	7240625	Grid	15	1	0	0	0
156	521929	503717	7238914	Grid	15	0	0	0	0
157	521689	500921	7240068	Grid	17	0	0	94	61
158	521874	505525	7238174	Grid	17	0	0	0	0
159	521752	499984	7240452	Grid	17	41	0	25	0
160	521803	499300	7240734	Grid	15	1	0	0	28
161	521281	504577	7238563	Grid	15	42	0	0	1
162	521288	485328	7259214	Grid	15	0	0	0	1
163	521903	489249	7258428	Grid	17	0	0	0	0
164	521387	484353	7259460	Grid	17	0	0	0	0
165	521808	490724	7258117	Grid	15	100	0	0	0
166	521294	483383	7259780	Grid	15	0	0	0	0
167	521885	485825	7259161	Grid	15	10	0	0	0
168	521261	486826	7259050	Grid	15	0	0	0	0
169	521600	490218	7258202	Grid	7	0	0	81	69
170	521883	487817	7258872	Grid	15	82	0	0	0
171	521627	484826	7259280	Grid	8	0	100	0	60
172	521272	487325	7258994	Grid	15	0	0	0	0
173	521832	486328	7259105	Grid	15	40	0	0	0
174	521961	483872	7259648	Grid	15	0	0	0	0
175	521423	487245	7264830	Grid	15	0	0	0	1
176	521268	488814	7264883	Grid	11	0	0	2	0
177	521428	489321	7264903	Grid	15	0	0	0	0
178	521382	492848	7265033	Grid	15	0	0	0	1

Talisman Great Bear Plains Survey
Model Probability Values

INDEX						Probability Value	Probability Value	Probability Value	Probability Value
ID	MODULE #	Easting	Northing	Status	Cluster Group	Model Tweed Lake M-47	Model Cluster 13	Model Cluster 7	Model Clusters 7 & 13
179	521606	484782	7264669	Grid	17	4	1	0	1
180	521257	491341	7264979	Grid	15	75	0	0	0
181	521849	487747	7264850	Grid	15	0	0	0	0
182	521478	490303	7264880	Grid	7	0	0	77	98
183	521810	484291	7264661	Grid	17	1	3	0	6
184	521347	489790	7264845	Grid	1	0	0	0	13
185	521613	490860	7264939	Grid	15	100	0	0	0
186	521975	493775	7265337	Grid	15	95	0	0	1
187	521778	492353	7265021	Grid	15	99	0	0	0
188	521520	485277	7264701	Grid	17	0	0	80	92
189	521755	483781	7264648	Grid	15	98	0	4	96
190	521667	485783	7264743	Grid	17	0	1	0	0
191	521486	486763	7264814	Grid	17	0	3	1	0
192	521842	491839	7265031	Grid	15	89	0	0	0
193	521573	493325	7265153	Grid	15	21	0	0	6
194	521982	486274	7264780	Grid	4	93	0	74	0
195	521302	488307	7264868	Grid	17	0	0	1	8
196	521469	492694	7257785	Grid	13	91	100	99	100
197	521366	494724	7265663	Grid	15	100	0	16	99
198	521553	496204	7265813	Grid	15	99	0	0	1
199	521453	496701	7265792	Grid	15	100	3	18	100
200	521527	493656	7257565	Grid	13	70	100	90	100
201	521692	493198	7257686	Grid	9	63	100	100	100
202	521636	498177	7265806	Grid	15	8	0	1	37
203	521661	491229	7258032	Grid	15	0	0	0	7
204	521656	492201	7257863	Grid	15	97	0	0	12
205	521818	497708	7265807	Grid	15	100	15	25	96
206	521335	494236	7265495	Grid	15	0	0	0	0
207	521331	495225	7265747	Grid	15	0	0	0	1
208	521754	497209	7265790	Grid	13	79	100	99	100
209	521889	494143	7257443	Grid	15	100	31	40	99
210	521986	488277	7258709	Grid	13	100	100	98	100
211	521614	495741	7265817	Grid	15	90	0	0	5
212	521637	499995	7256119	Grid	15	0	0	0	0
213	521447	499187	7265785	Grid	15	0	0	0	0
214	521477	499043	7256342	Grid	1	0	0	1	42
215	521433	498571	7256467	Grid	13	50	100	77	100
216	521536	498676	7265799	Grid	15	0	0	0	0
217	521787	502674	7265771	Grid	15	0	0	0	1
218	521838	500200	7265735	Grid	15	100	25	1	85
219	521680	501165	7265665	Grid	15	100	1	0	85

Talisman Great Bear Plains Survey
Model Probability Values

INDEX						Probability Value	Probability Value	Probability Value	Probability Value
ID	MODULE #	Easting	Northing	Status	Cluster Group	Model Tweed Lake M-47	Model Cluster 13	Model Cluster 7	Model Clusters 7 & 13
220	522012	497572	7256712	Grid	13	100	100	91	100
221	521715	501671	7265686	Grid	15	0	0	0	0
222	521727	496567	7256901	Grid	3	0	0	47	78
223	521277	499692	7265776	Grid	15	90	0	0	4
224	521931	503180	7265805	Grid	17	95	100	99	88
225	521472	499554	7256353	Grid	15	100	0	0	0
226	521776	498133	7256592	Grid	11	100	0	100	0
227	521467	495089	7257176	Grid	15	100	0	0	0
228	521414	497077	7256808	Grid	15	78	0	0	11
229	521797	496074	7256986	Grid	15	19	0	1	0
230	521591	502175	7265737	Grid	13	93	100	56	100
231	521960	495577	7257061	Grid	15	64	0	57	90
232	521956	500704	7265700	Grid	13	96	100	90	100
233	521322	483466	7262401	Grid	15	0	0	12	75
234	521962	506927	7254775	Grid	15	19	0	0	2
235	521906	503686	7265836	Grid	15	58	0	0	7
236	521749	502968	7255477	Grid	15	73	0	0	3
237	521771	503961	7255346	Grid	15	0	0	5	56
238	521320	483936	7262597	Grid	15	98	0	0	1
239	521360	503454	7255423	Grid	15	0	0	3	16
240	521764	485776	7263489	Grid	1	1	0	3	13
241	521934	500470	7255984	Grid	15	1	0	4	29
242	521276	500959	7255885	Grid	15	4	0	0	0
243	521596	505953	7255006	Grid	15	78	0	0	28
244	521748	502461	7255529	Grid	18	0	100	99	100
245	521844	504474	7255263	Grid	17	90	94	83	97
246	521468	484409	7262797	Grid	15	92	0	0	0
247	521628	485331	7263228	Grid	7	0	2	100	100
248	521643	483008	7262180	Grid	15	0	0	10	20
249	521408	505473	7255091	Grid	15	100	1	3	78
250	521439	504981	7255170	Grid	15	98	0	2	92
251	521738	484870	7262992	Grid	15	0	0	0	0
252	521946	501458	7255777	Grid	15	2	0	0	0
253	521963	504199	7265861	Grid	15	81	0	41	88
254	521380	501971	7255595	Grid	15	89	0	0	74
255	522007	506434	7254902	Grid	12	100	14	41	100
256	521512	496181	7264986	Grid	15	0	0	0	0
257	521473	496848	7266643	Grid	15	13	0	0	3
258	521292	488216	7264907	Grid	1	0	87	100	99
259	521352	487544	7264524	Grid	15	0	0	0	0
260	521774	495682	7263507	Grid	17	0	0	2	4

Talisman Great Bear Plains Survey
Model Probability Values

INDEX						Probability Value	Probability Value	Probability Value	Probability Value
ID	MODULE #	Easting	Northing	Status	Cluster Group	Model Tweed Lake M-47	Model Cluster 13	Model Cluster 7	Model Clusters 7 & 13
261	521270	489589	7265518	Grid	17	0	100	6	34
262	521687	488677	7265134	Grid	17	0	2	97	100
263	521401	495940	7264237	Grid	15	0	0	0	2
264	521697	495577	7263251	Grid	7	0	0	100	100
265	521930	497137	7267306	Grid	19	90	100	0	0
266	521413	497040	7267088	Grid	1	0	0	1	73
267	521726	488446	7265022	Grid	17	1	100	77	65
268	521856	485995	7263621	Grid	15	0	0	60	14
269	521798	496752	7266417	Grid	17	0	100	0	0
270	521969	496257	7265223	Grid	1	0	0	96	100
271	521772	496369	7265498	Grid	15	0	0	0	1
272	521519	486886	7264135	Grid	15	0	0	0	2
273	521604	489861	7266287	Grid	17	0	100	15	1
274	521325	489674	7266122	Grid	15	4	0	0	12
275	521621	486440	7263873	Grid	15	100	95	99	99
276	521421	496947	7266872	Grid	15	2	0	0	0
277	521338	496552	7265939	Grid	15	24	0	0	0
278	521886	487325	7264393	Grid	17	17	100	79	82
279	521601	496105	7264740	Grid	15	12	0	2	74
280	521456	487107	7264266	Grid	15	0	0	54	29
281	521266	490082	7266154	Grid	15	99	0	0	0
282	521777	488900	7265244	Grid	15	3	0	0	14
283	521444	487985	7264782	Grid	17	1	100	99	90
284	521646	495362	7262805	Grid	15	7	0	10	95
285	521559	489842	7265628	Grid	17	0	100	8	6
286	521287	487766	7264653	Grid	17	11	100	100	98
287	521724	489146	7265322	Grid	15	37	59	99	100
288	521911	495787	7263740	Grid	15	1	0	0	1
289	521734	497235	7267530	Grid	15	100	0	0	0
290	521968	490240	7265950	Grid	15	98	99	79	27
291	521970	496463	7265720	Grid	17	4	100	0	0
292	521295	486207	7263736	Grid	15	78	0	0	0
293	521504	486652	7264016	Grid	15	4	0	0	0
294	521275	496016	7264471	Grid	17	9	0	12	0
295	521386	489771	7265874	Grid	15	77	0	6	0
296	521852	496657	7266185	Grid	15	100	0	0	0
297	521830	495866	7264000	Grid	15	100	0	0	42
298	521940	489341	7265473	Grid	15	87	0	0	0
299	521739	498972	7270251	Grid	15	0	0	0	0
300	521314	497751	7268666	Grid	1	1	0	71	92
301	521707	491650	7266531	Grid	7	0	0	100	100

Talisman Great Bear Plains Survey
Model Probability Values

INDEX						Probability Value	Probability Value	Probability Value	Probability Value
ID	MODULE #	Easting	Northing	Status	Cluster Group	Model Tweed Lake M-47	Model Cluster 13	Model Cluster 7	Model Clusters 7 & 13
302	521283	498242	7269234	Grid	19	0	100	0	0
303	521558	499557	7271544	Grid	15	0	0	0	0
304	521555	491179	7266355	Grid	15	96	0	93	87
305	521651	497332	7267761	Grid	19	0	100	0	0
306	521511	493140	7267106	Grid	17	0	99	1	2
307	522005	498869	7270017	Grid	17	0	100	0	0
308	521265	492141	7266711	Grid	15	97	2	90	97
309	521364	492405	7266781	Grid	15	100	0	0	0
310	521575	499057	7270483	Grid	17	0	99	0	0
311	521807	490052	7265821	Grid	5	37	0	100	100
312	521594	498593	7269603	Grid	17	0	0	15	0
313	521543	497546	7268217	Grid	17	0	100	0	0
314	521598	491413	7266444	Grid	15	66	0	0	95
315	521474	497910	7268854	Grid	15	100	99	0	7
316	521535	490451	7266015	Grid	1	0	0	100	100
317	521443	499620	7271782	Grid	15	20	0	1	3
318	521394	499478	7271304	Grid	17	0	0	0	0
319	521339	493399	7267175	Grid	15	0	0	0	14
320	521343	499228	7270881	Grid	17	0	95	0	0
321	521732	499706	7272000	Grid	15	100	0	0	92
322	521670	498736	7269803	Grid	15	100	0	0	0
323	521602	492634	7266894	Grid	15	36	0	0	0
324	521792	492896	7266990	Grid	17	1	16	9	1
325	521618	497639	7268444	Grid	19	0	100	0	0
326	521381	498087	7269030	Grid	1	12	0	94	47
327	521873	490941	7266256	Grid	15	0	0	100	100
328	521664	499351	7271095	Grid	17	0	98	0	0
329	521665	498411	7269408	Grid	17	0	100	0	25
330	521898	490679	7266129	Grid	7	0	4	100	100
331	521855	497430	7267988	Grid	15	77	0	0	0
332	521802	491906	7266625	Grid	17	41	37	53	5
333	521488	494096	7267526	Grid	17	0	99	0	1
334	521279	495669	7268752	Grid	17	0	55	0	0
335	521642	500966	7274640	Grid	15	2	0	0	33
336	521669	494880	7268192	Grid	15	2	7	0	0
337	521362	500018	7272727	Grid	14	0	2	4	1
338	521722	500617	7273977	Grid	17	0	0	2	7
339	521286	496480	7269173	Grid	15	0	4	1	0
340	521705	499809	7272279	Grid	7	0	0	100	100
341	521255	500344	7273403	Grid	1	0	0	1	32
342	521991	494297	7267698	Grid	17	0	100	0	1

Talisman Great Bear Plains Survey
Model Probability Values

INDEX						Probability Value	Probability Value	Probability Value	Probability Value
ID	MODULE #	Easting	Northing	Status	Cluster Group	Model Tweed Lake M-47	Model Cluster 13	Model Cluster 7	Model Clusters 7 & 13
343	521831	495891	7268869	Grid	1	98	0	2	4
344	521760	495012	7268302	Grid	17	0	2	4	0
345	521332	500131	7272959	Grid	17	0	1	21	1
346	521682	501110	7274838	Grid	17	0	0	0	1
348	521524	495435	7268646	Grid	15	96	2	1	10
349	521866	499911	7272504	Grid	15	99	3	97	100
350	521942	501256	7275046	Grid	15	3	0	7	96
351	521298	500217	7273185	Grid	17	0	0	20	97
352	521515	501544	7275550	Grid	14	0	0	31	0
353	521743	500728	7274205	Grid	15	0	0	0	4
354	521965	496226	7269214	Grid	7	4	0	100	99
355	521957	495210	7268469	Grid	17	89	53	25	0
356	521843	494689	7268030	Grid	15	100	0	0	0
357	521742	501409	7275281	Grid	15	63	0	1	1
358	521773	500831	7274429	Grid	15	100	0	1	3
359	521947	493883	7267392	Grid	17	99	0	98	0
360	521815	493642	7267271	Grid	15	96	0	34	57
361	521655	496125	7268980	Grid	15	57	3	3	1
362	521936	500424	7273634	Grid	1	0	0	12	5
363	521528	499610	7271709	Grid	15	0	0	1	0
364	521671	501911	7276337	Grid	15	0	0	0	1
365	521379	499407	7271169	Grid	17	0	0	0	0
366	521631	502268	7276991	Grid	15	88	0	0	0
367	521685	497357	7269687	Grid	15	100	0	0	0
368	521820	502513	7277438	Grid	15	9	0	0	3
369	521905	497979	7270154	Grid	15	92	0	6	78
370	521306	499391	7270740	Grid	8	0	100	0	1
371	521864	502246	7277918	Grid	1	2	0	0	3
372	521262	496715	7269266	Grid	15	83	0	1	0
373	521884	498969	7270490	Grid	17	46	100	0	49
374	521350	502142	7276761	Grid	1	0	0	10	99
375	521871	499524	7271461	Grid	15	9	1	0	4
376	521733	497153	7269534	Grid	17	0	100	2	4
377	521616	499217	7270557	Grid	15	11	0	0	1
378	521928	496948	7269384	Grid	15	99	0	0	0
379	521349	501786	7276099	Grid	15	62	0	0	1
380	521341	501703	7275831	Grid	15	0	0	0	8
381	521321	502764	7277904	Grid	14	1	10	0	60
382	521996	497572	7269847	Grid	17	0	94	6	0
383	521526	502483	7277833	Grid	14	0	2	0	35
384	521326	502392	7277209	Grid	17	56	11	0	4

Talisman Great Bear Plains Survey
Model Probability Values

INDEX						Probability Value	Probability Value	Probability Value	Probability Value
ID	MODULE #	Easting	Northing	Status	Cluster Group	Model Tweed Lake M-47	Model Cluster 13	Model Cluster 7	Model Clusters 7 & 13
385	521539	502025	7276540	Grid	15	0	0	0	14
386	521766	499271	7270968	Grid	14	0	2	0	0
388	521652	502657	7277691	Grid	14	1	16	0	0
389	521503	498216	7270287	Grid	2	0	0	0	0
390	521759	498725	7270384	Grid	15	100	100	100	100
391	521567	500494	7278498	Grid	15	0	0	0	0
392	521545	496304	7279747	Grid	15	0	0	0	0
393	521914	501017	7278336	Grid	15	2	0	1	1
394	521972	497033	7279409	Grid	14	0	0	0	0
395	521795	500258	7278577	Grid	14	0	62	0	7
396	521510	499273	7278844	Grid	11	5	71	1	0
397	521455	497781	7279197	Grid	15	0	0	0	0
398	521694	501529	7278159	Grid	15	0	0	0	0
399	521967	501281	7278238	Grid	14	0	6	0	0
400	521713	498522	7279012	Grid	17	0	0	0	0
401	521367	496795	7279426	Grid	14	0	0	0	0
402	521833	496597	7279592	Grid	15	0	0	0	1
403	521679	502019	7277997	Grid	10	0	34	0	0
404	521593	498276	7279064	Grid	14	1	29	0	10
405	521300	499773	7278735	Grid	15	3	0	2	10
406	521649	501779	7278077	Grid	14	6	34	0	4
407	521415	499019	7278902	Grid	15	96	0	1	1
408	521896	498026	7279132	Grid	15	22	0	0	2
409	521841	498767	7278960	Grid	17	4	1	0	0
410	521462	499519	7278791	Grid	17	0	44	0	0
411	521973	497547	7279266	Grid	15	93	0	0	0
412	521327	500765	7278409	Grid	14	0	96	0	6
413	521388	500013	7278656	Grid	14	78	2	0	0
414	521619	497288	7279335	Grid	15	99	0	1	0
415	521493	495017	7243814	Grid	17	0	0	0	0
416	521654	493362	7243097	Grid	12	0	0	0	0
417	521441	494078	7243407	Grid	1	5	0	79	27
418	521788	492311	7242615	Grid	15	0	0	0	0
419	521514	493024	7242939	Grid	1	0	0	69	2
420	521425	494800	7243722	Grid	15	8	0	0	0
421	521994	492790	7242832	Grid	6	88	0	100	99
422	521571	493838	7243307	Grid	15	0	0	21	0
423	521812	494551	7243613	Grid	15	1	0	3	91
424	521784	493599	7243203	Grid	15	0	0	0	0
425	521311	492551	7242726	Grid	6	73	0	100	100
426	521588	494311	7243506	Grid	17	85	0	3	0

Talisman Great Bear Plains Survey
Model Probability Values

INDEX						Probability Value	Probability Value	Probability Value	Probability Value
ID	MODULE #	Easting	Northing	Status	Cluster Group	Model Tweed Lake M-47	Model Cluster 13	Model Cluster 7	Model Clusters 7 & 13
501	521533	371548	7427402	Grid	#N/A	90	#N/A	#N/A	#N/A
502	521385	372009	7427690	Grid	#N/A	100	#N/A	#N/A	#N/A
503	521617	372445	7427965	Grid	#N/A	92	#N/A	#N/A	#N/A
504	521546	372893	7428245	Grid	#N/A	100	#N/A	#N/A	#N/A
505	521634	373326	7428526	Grid	#N/A	66	#N/A	#N/A	#N/A
506	521763	373780	7428812	Grid	#N/A	95	#N/A	#N/A	#N/A
507	521953	374204	7429076	Grid	#N/A	96	#N/A	#N/A	#N/A
508	521806	374612	7429329	Grid	#N/A	0	#N/A	#N/A	#N/A
509	521768	374817	7429466	Grid	#N/A	75	#N/A	#N/A	#N/A
510	521438	375034	7429595	Grid	#N/A	54	#N/A	#N/A	#N/A
511	521259	375250	7429743	Grid	#N/A	0	#N/A	#N/A	#N/A
512	521376	375463	7429873	Grid	#N/A	36	#N/A	#N/A	#N/A
513	521976	375689	7430012	Grid	#N/A	6	#N/A	#N/A	#N/A
514	521945	375901	7430150	Grid	#N/A	70	#N/A	#N/A	#N/A
515	521789	376111	7430280	Grid	#N/A	7	#N/A	#N/A	#N/A
516	521299	376299	7430396	Grid	#N/A	3	#N/A	#N/A	#N/A
517	521346	376501	7430530	Grid	#N/A	0	#N/A	#N/A	#N/A
518	521548	376710	7430659	Grid	#N/A	0	#N/A	#N/A	#N/A
1001	521607	484849	7303834	Model	15	0	0	0	1
1002	521902	484880	7303779	Model	15	0	0	0	0
1003	521572	484869	7303793	Model	17	0	10	0	0
1004	521662	484929	7303760	Model	17	2	0	0	0
1005	521918	484851	7303889	Model	15	12	0	0	0
1006	521758	484956	7303781	Model	15	0	0	0	0
1007	521460	484858	7303818	Model	15	0	0	0	0
1008	521324	484978	7303815	Model	12	0	0	99	100
1009	521746	484849	7303871	Model	15	0	0	0	0
1010	521836	484945	7303764	Model	17	2	17	0	0
1011	521939	484893	7303768	Model	15	2	0	0	0
1012	521709	484852	7303851	Model	7	0	0	100	100
1013	521904	484969	7303798	Model	15	19	0	1	3
1014	521291	484910	7303759	Model	15	1	0	1	0
1015	521629	484863	7303803	Model	15	5	0	0	0
2001	521293	628260	7436359	Model	#N/A	0	#N/A	#N/A	#N/A
2002	521659	628462	7436359	Model	#N/A	0	#N/A	#N/A	#N/A
2003	521922	628267	7436340	Model	#N/A	49	#N/A	#N/A	#N/A
2004	521740	628439	7436318	Model	#N/A	78	#N/A	#N/A	#N/A
2005	521987	628290	7436386	Model	#N/A	0	#N/A	#N/A	#N/A
2006	521605	628451	7436332	Model	#N/A	15	#N/A	#N/A	#N/A
2007	521523	628386	7436268	Model	#N/A	94	#N/A	#N/A	#N/A
2008	521867	628316	7436290	Model	#N/A	0	#N/A	#N/A	#N/A

Talisman Great Bear Plains Survey
Model Probability Values

INDEX						Probability Value	Probability Value	Probability Value	Probability Value
ID	MODULE #	Easting	Northing	Status	Cluster Group	Model Tweed Lake M-47	Model Cluster 13	Model Cluster 7	Model Clusters 7 & 13
2009	521615	628418	7436281	Model	#N/A	0	#N/A	#N/A	#N/A
2010	521344	628359	7436262	Model	#N/A	1	#N/A	#N/A	#N/A
2011	521284	628312	7436402	Model	#N/A	1	#N/A	#N/A	#N/A
2012	521890	628289	7436323	Model	#N/A	5	#N/A	#N/A	#N/A
2013	521483	628330	7436277	Model	#N/A	2	#N/A	#N/A	#N/A
3001	521750	373009	7428422	Model	#N/A	90	#N/A	#N/A	#N/A
3002	521570	373189	7428345	Model	#N/A	81	#N/A	#N/A	#N/A
3003	521720	373086	7428282	Model	#N/A	99	#N/A	#N/A	#N/A
3004	521280	373130	7428306	Model	#N/A	73	#N/A	#N/A	#N/A
3005	521568	373008	7428410	Model	#N/A	100	#N/A	#N/A	#N/A
3006	521921	373195	7428387	Model	#N/A	28	#N/A	#N/A	#N/A
3007	521822	373171	7428335	Model	#N/A	100	#N/A	#N/A	#N/A
3008	521686	373186	7428398	Model	#N/A	32	#N/A	#N/A	#N/A
3010	522010	373108	7428294	Model	#N/A	81	#N/A	#N/A	#N/A
3011	521457	373208	7428366	Model	#N/A	71	#N/A	#N/A	#N/A
3012	521988	373148	7428318	Model	#N/A	98	#N/A	#N/A	#N/A
3013	521857	373032	7428359	Model	#N/A	82	#N/A	#N/A	#N/A
3014	521910	373072	7428299	Model	#N/A	100	#N/A	#N/A	#N/A
3015	521850	373202	7428351	Model	#N/A	100	#N/A	#N/A	#N/A
Losh Lake	Losh Lake			P&A	#N/A	0		0	0
Tweed Lake	Tweed Lake C12			P&A	#N/A	1	#N/A	#N/A	#N/A
Tweed Lake	Tweed Lake M47			GAS	#N/A	86	#N/A	#N/A	#N/A

Talisman Great Bear Plains Survey
Field Information

Deline, NWT

Sample Database

<u>NOTES</u>	<u>Coordinate Info</u>	<u>PERSONNEL</u>	<u>Models</u>
		JI=Jason Innes RF=Ryan Fischer	
l=lost d1=potentially disturbed d2=severely disturbed x=destroyed m=model b=blank EXP=Exposure Time (days)	UTM Zone 10 NAD 83	<u>SUMMARY INFO</u> 0 Total Models 0 Total Blanks 0 Total Samples 17.0 Average Exposure 7 Total Lost 0 Total d2	Losh Lk G-; Tweed Lk M NW Tweed Lk

Sent Modules	Module #	Easting	Northing	Initials	Date Ent.	Initials	Date Rec.	Notes	EXP
	521502	488677	7245042	ji/rf	21-Feb-07	RF	11. Mar. 2007		18
	521574	488463	7245195	ji/rf	21-Feb-07	RF	11. Mar. 2007		18
	521630	489159	7244856	ji/rf	21-Feb-07	RF	11. Mar. 2007		18
	521706	488909	7244960	ji/rf	21-Feb-07	RF	11. Mar. 2007		18
	521894	489594	7244666	ji/rf	21-Feb-07	RF	11. Mar. 2007	L	18
	521938	489368	7244767	ji/rf	21-Feb-07	RF	11. Mar. 2007		18
	521290	492828	7243350	ji/rf	22-Feb-07	RF	11. Mar. 2007		17
	521396	490052	7244483	ji/rf	22-Feb-07	RF	11. Mar. 2007		17
	521431	492364	7243541	ji/rf	22-Feb-07	RF	11. Mar. 2007		17
	521449	491921	7243719	ji/rf	22-Feb-07	RF	11. Mar. 2007		17
	521454	492614	7243435	ji/rf	22-Feb-07	RF	11. Mar. 2007		17
	521487	490307	7244381	ji/rf	22-Feb-07	RF	11. Mar. 2007		17
	521531	491225	7244012	ji/rf	22-Feb-07	RF	11. Mar. 2007		17
	521538	490749	7244201	ji/rf	22-Feb-07	RF	11. Mar. 2007		17
	521557	490986	7244107	ji/rf	22-Feb-07	RF	11. Mar. 2007		17
	521625	492150	7243625	ji/rf	22-Feb-07	RF	11. Mar. 2007		17
	521882	491687	7243819	ji/rf	22-Feb-07	RF	11. Mar. 2007		17
	521932	490526	7244290	ji/rf	22-Feb-07	RF	11. Mar. 2007		17
	521985	489822	7244584	ji/rf	22-Feb-07	RF	11. Mar. 2007		17
	521993	491436	7243923	ji/rf	22-Feb-07	RF	11. Mar. 2007		17
	521260	497667	7241377	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521267	494683	7242596	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521303	496084	7242036	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521337	493553	7243059	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521348	496525	7241862	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521393	494464	7242688	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521432	495383	7242313	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521442	497234	7241585	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521463	494914	7242504	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521482	496300	7241954	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521507	497006	7241690	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521516	497464	7241473	ji/rf	24-Feb-07	Ji	13. Mar. 2007	L	17
	521547	493759	7242972	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521564	498385	7241117	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521582	493995	7242880	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521611	496767	7241787	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17

Talisman Great Bear Plains Survey
Field Information

Sent Modules	Module #	Easting	Northing	Initials	Date Ent.	Initials	Date Rec.	Notes	EXP
	521620	498146	7241209	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521641	498624	7241016	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521644	493293	7243163	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521693	494231	7242780	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521698	493059	7243251	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521708	495618	7242212	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521714	497902	7241297	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521737	495153	7242404	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521770	495860	7242116	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521859	498858	7240923	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	521897	499067	7240834	ji/rf	24-Feb-07	Ji	13. Mar. 2007		17
	522009	504141	7238740	ji/rf	25-Feb-07	Ji	14. Mar. 2007		17
	521281	504577	7238563	ji/rf	25-Feb-07	Ji	14. Mar. 2007		17
	521551	502791	7239294	ji/rf	25-Feb-07	Ji	14. Mar. 2007		17
	521569	505086	7238350	ji/rf	25-Feb-07	Ji	14. Mar. 2007		17
	521580	500461	7240258	ji/rf	25-Feb-07	Ji	14. Mar. 2007		17
	521650	501392	7239873	ji/rf	25-Feb-07	Ji	14. Mar. 2007		17
	521689	500921	7240068	ji/rf	25-Feb-07	Ji	14. Mar. 2007		17
	521752	499984	7240452	ji/rf	25-Feb-07	Ji	14. Mar. 2007		17
	521803	499300	7240734	ji/rf	25-Feb-07	Ji	14. Mar. 2007		17
	521870	501851	7239681	ji/rf	25-Feb-07	Ji	14. Mar. 2007		17
	521874	505525	7238174	ji/rf	25-Feb-07	Ji	14. Mar. 2007		17
	521887	499588	7240625	ji/rf	25-Feb-07	Ji	14. Mar. 2007		17
	521900	503265	7239102	ji/rf	25-Feb-07	Ji	14. Mar. 2007		17
	521929	503717	7238914	ji/rf	25-Feb-07	Ji	14. Mar. 2007		17
	521981	502312	7239495	ji/rf	25-Feb-07	Ji	14. Mar. 2007		17
	522013	506000	7237977	ji/rf	25-Feb-07	Ji	14. Mar. 2007		17
	521261	486826	7259050	ji/rf	26-Feb-07	Ji	15. Mar. 2007		17
	521272	487325	7258994	ji/rf	26-Feb-07	Ji	15. Mar. 2007		17
	521288	485328	7259214	ji/rf	26-Feb-07	Ji	15. Mar. 2007		17
	521294	483383	7259780	ji/rf	26-Feb-07	Ji	15. Mar. 2007		17
	521387	484353	7259460	ji/rf	26-Feb-07	Ji	15. Mar. 2007		17
	521584	488770	7258584	ji/rf	26-Feb-07	Ji	15. Mar. 2007	L	17
	521600	490218	7258202	ji/rf	26-Feb-07	Ji	15. Mar. 2007		17
	521627	484826	7259280	ji/rf	26-Feb-07	Ji	15. Mar. 2007		17
	521808	490724	7258117	ji/rf	26-Feb-07	Ji	15. Mar. 2007		17
	521832	486328	7259105	ji/rf	26-Feb-07	Ji	15. Mar. 2007		17
	521883	487817	7258872	ji/rf	26-Feb-07	Ji	15. Mar. 2007		17
	521885	485825	7259161	ji/rf	26-Feb-07	Ji	15. Mar. 2007		17
	521903	489249	7258428	ji/rf	26-Feb-07	Ji	15. Mar. 2007		17
	521961	483872	7259648	ji/rf	26-Feb-07	Ji	15. Mar. 2007		17
	521257	491341	7264979	ji/rf	27-Feb-07	RF	16. Mar. 2007		17
	521268	488814	7264883	ji/rf	27-Feb-07	RF	16. Mar. 2007		17
	521302	488307	7264868	ji/rf	27-Feb-07	RF	16. Mar. 2007		17
	521347	489790	7264845	ji/rf	27-Feb-07	RF	16. Mar. 2007		17
	521382	492848	7265033	ji/rf	27-Feb-07	RF	16. Mar. 2007		17
	521423	487245	7264830	ji/rf	27-Feb-07	RF	16. Mar. 2007		17
	521428	489321	7264903	ji/rf	27-Feb-07	RF	16. Mar. 2007		17
	521478	490303	7264880	ji/rf	27-Feb-07	RF	16. Mar. 2007		17
	521486	486763	7264814	ji/rf	27-Feb-07	RF	16. Mar. 2007		17
	521520	485277	7264701	ji/rf	27-Feb-07	RF	16. Mar. 2007	D1	17
	521573	493325	7265153	ji/rf	27-Feb-07	RF	16. Mar. 2007		17
	521606	484782	7264669	ji/rf	27-Feb-07	RF	16. Mar. 2007		17
	521613	490860	7264939	ji/rf	27-Feb-07	RF	16. Mar. 2007		17
	521667	485783	7264743	ji/rf	27-Feb-07	RF	16. Mar. 2007		17
	521755	483781	7264648	ji/rf	27-Feb-07	RF	16. Mar. 2007		17
	521778	492353	7265021	ji/rf	27-Feb-07	RF	16. Mar. 2007		17

Talisman Great Bear Plains Survey
Field Information

Sent Modules	Module #	Easting	Northing	Initials	Date Ent.	Initials	Date Rec.	Notes	EXP
	521810	484291	7264661	ji/rf	27-Feb-07	RF	16. Mar. 2007		17
	521842	491839	7265031	ji/rf	27-Feb-07	RF	16. Mar. 2007		17
	521849	487747	7264850	ji/rf	27-Feb-07	RF	16. Mar. 2007		17
	521975	493775	7265337	ji/rf	27-Feb-07	RF	16. Mar. 2007		17
	521982	486274	7264780	ji/rf	27-Feb-07	RF	16. Mar. 2007		17
	521263	491722	7257947	JI	28-Feb-07	RF	18. Mar. 2007	X	18
	521331	495225	7265747	RF	28-Feb-07	RF	18. Mar. 2007		18
	521335	494236	7265495	RF	28-Feb-07	RF	18. Mar. 2007		18
	521366	494724	7265663	RF	28-Feb-07	RF	18. Mar. 2007		18
	521446	489730	7258285	JI	28-Feb-07	RF	18. Mar. 2007	L	18
	521453	496701	7265792	RF	28-Feb-07	RF	18. Mar. 2007		18
	521469	492694	7257785	JI	28-Feb-07	RF	18. Mar. 2007		18
	521527	493656	7257565	JI	28-Feb-07	RF	18. Mar. 2007		18
	521553	496204	7265813	RF	28-Feb-07	RF	18. Mar. 2007		18
	521614	495741	7265817	RF	28-Feb-07	RF	18. Mar. 2007		18
	521636	498177	7265806	RF	28-Feb-07	RF	18. Mar. 2007		18
	521656	492201	7257863	JI	28-Feb-07	RF	18. Mar. 2007		18
	521661	491229	7258032	JI	28-Feb-07	RF	18. Mar. 2007		18
	521692	493198	7257686	JI	28-Feb-07	RF	18. Mar. 2007		18
	521754	497209	7265790	RF	28-Feb-07	RF	18. Mar. 2007		18
	521818	497708	7265807	RF	28-Feb-07	RF	18. Mar. 2007		18
	521889	494143	7257443	JI	28-Feb-07	RF	18. Mar. 2007		18
	521986	488277	7258709	JI	28-Feb-07	RF	18. Mar. 2007		18
	521277	499692	7265776	RF	01-Mar-07	RF	18. Mar. 2007		17
	521414	497077	7256808	JI	01-Mar-07	RF	18. Mar. 2007		17
	521433	498571	7256467	JI	01-Mar-07	RF	18. Mar. 2007		17
	521447	499187	7265785	RF	01-Mar-07	RF	18. Mar. 2007		17
	521467	495089	7257176	JI	01-Mar-07	RF	18. Mar. 2007		17
	521472	499554	7256353	JI	01-Mar-07	RF	18. Mar. 2007		17
	521477	499043	7256342	JI	01-Mar-07	RF	18. Mar. 2007		17
	521536	498676	7265799	RF	01-Mar-07	RF	18. Mar. 2007		17
	521591	502175	7265737	RF	01-Mar-07	RF	18. Mar. 2007		17
	521637	499995	7256119	JI	01-Mar-07	RF	18. Mar. 2007		17
	521680	501165	7265665	RF	01-Mar-07	RF	18. Mar. 2007		17
	521715	501671	7265686	RF	01-Mar-07	RF	18. Mar. 2007		17
	521716	494621	7257309	JI	01-Mar-07	RF	18. Mar. 2007	L	17
	521727	496567	7256901	JI	01-Mar-07	RF	18. Mar. 2007		17
	521776	498133	7256592	JI	01-Mar-07	RF	18. Mar. 2007		17
	521787	502674	7265771	RF	01-Mar-07	RF	18. Mar. 2007		17
	521797	496074	7256986	JI	01-Mar-07	RF	18. Mar. 2007		17
	521838	500200	7265735	RF	01-Mar-07	RF	18. Mar. 2007		17
	521931	503180	7265805	RF	01-Mar-07	RF	18. Mar. 2007		17
	521956	500704	7265700	RF	01-Mar-07	RF	18. Mar. 2007		17
	521960	495577	7257061	JI	01-Mar-07	RF	18. Mar. 2007		17
	522012	497572	7256712	JI	01-Mar-07	RF	18. Mar. 2007		17
	521276	500959	7255885	JI	02-Mar-07	RF	20. Mar. 2007		18
	521320	483936	7262597	RF	02-Mar-07	RF	20. Mar. 2007		18
	521322	483466	7262401	RF	02-Mar-07	RF	20. Mar. 2007		18
	521360	503454	7255423	JI	02-Mar-07	RF	20. Mar. 2007		18
	521380	501971	7255595	JI	02-Mar-07	RF	20. Mar. 2007		18
	521408	505473	7255091	JI	02-Mar-07	RF	20. Mar. 2007		18
	521439	504981	7255170	JI	02-Mar-07	RF	20. Mar. 2007		18
	521468	484409	7262797	RF	02-Mar-07	RF	20. Mar. 2007		18
	521596	505953	7255006	JI	02-Mar-07	RF	20. Mar. 2007		18
	521628	485331	7263228	RF	02-Mar-07	RF	20. Mar. 2007		18
	521643	483008	7262180	RF	02-Mar-07	RF	20. Mar. 2007		18
	521738	484870	7262992	RF	02-Mar-07	RF	20. Mar. 2007		18

Talisman Great Bear Plains Survey
Field Information

Sent Modules	Module #	Easting	Northing	Initials	Date Ent.	Initials	Date Rec.	Notes	EXP
	521748	502461	7255529	JI	02-Mar-07	RF	20. Mar. 2007		18
	521749	502968	7255477	JI	02-Mar-07	RF	20. Mar. 2007		18
	521764	485776	7263489	RF	02-Mar-07	RF	20. Mar. 2007		18
	521771	503961	7255346	JI	02-Mar-07	RF	20. Mar. 2007		18
	521844	504474	7255263	JI	02-Mar-07	RF	20. Mar. 2007		18
	521906	503686	7265836	RF	02-Mar-07	RF	20. Mar. 2007		18
	521934	500470	7255984	JI	02-Mar-07	RF	20. Mar. 2007		18
	521946	501458	7255777	JI	02-Mar-07	RF	20. Mar. 2007		18
	521962	506927	7254775	JI	02-Mar-07	RF	20. Mar. 2007		18
	521963	504199	7265861	RF	02-Mar-07	RF	20. Mar. 2007		18
	522007	506434	7254902	JI	02-Mar-07	RF	20. Mar. 2007		18
	521266	490082	7266154	RF	03-Mar-07	RF	21. Mar. 2007		18
	521270	489589	7265518	RF	03-Mar-07	RF	21. Mar. 2007		18
	521275	496016	7264471	JI	03-Mar-07	RF	21. Mar. 2007		18
	521287	487766	7264653	RF	03-Mar-07	RF	21. Mar. 2007		18
	521292	488216	7264907	RF	03-Mar-07	RF	21. Mar. 2007		18
	521295	486207	7263736	RF	03-Mar-07	RF	21. Mar. 2007		18
	521325	489674	7266122	RF	03-Mar-07	RF	21. Mar. 2007		18
	521338	496552	7265939	JI	03-Mar-07	RF	21. Mar. 2007		18
	521352	487544	7264524	RF	03-Mar-07	RF	21. Mar. 2007		18
	521386	489771	7265874	RF	03-Mar-07	RF	21. Mar. 2007		18
	521401	495940	7264237	JI	03-Mar-07	RF	21. Mar. 2007		18
	521413	497040	7267088	JI	03-Mar-07	RF	21. Mar. 2007		18
	521421	496947	7266872	JI	03-Mar-07	RF	21. Mar. 2007		18
	521444	487985	7264782	RF	03-Mar-07	RF	21. Mar. 2007		18
	521456	487107	7264266	RF	03-Mar-07	RF	21. Mar. 2007		18
	521473	496848	7266643	JI	03-Mar-07	RF	21. Mar. 2007		18
	521504	486652	7264016	RF	03-Mar-07	RF	21. Mar. 2007		18
	521512	496181	7264986	JI	03-Mar-07	RF	21. Mar. 2007		18
	521519	486886	7264135	RF	03-Mar-07	RF	21. Mar. 2007		18
	521559	489842	7265628	RF	03-Mar-07	RF	21. Mar. 2007		18
	521601	496105	7264740	JI	03-Mar-07	RF	21. Mar. 2007		18
	521604	489861	7266287	RF	03-Mar-07	RF	21. Mar. 2007		18
	521621	486440	7263873	RF	03-Mar-07	RF	21. Mar. 2007		18
	521623	495475	7263027	JI	03-Mar-07	RF	21. Mar. 2007 L		18
	521646	495362	7262805	JI	03-Mar-07	RF	21. Mar. 2007		18
	521687	488677	7265134	RF	03-Mar-07	RF	21. Mar. 2007		18
	521697	495577	7263251	JI	03-Mar-07	RF	21. Mar. 2007		18
	521724	489146	7265322	RF	03-Mar-07	RF	21. Mar. 2007		18
	521726	488446	7265022	RF	03-Mar-07	RF	21. Mar. 2007		18
	521734	497235	7267530	JI	03-Mar-07	RF	21. Mar. 2007		18
	521772	496369	7265498	JI	03-Mar-07	RF	21. Mar. 2007		18
	521774	495682	7263507	JI	03-Mar-07	RF	21. Mar. 2007		18
	521777	488900	7265244	RF	03-Mar-07	RF	21. Mar. 2007		18
	521798	496752	7266417	JI	03-Mar-07	RF	21. Mar. 2007		18
	521830	495866	7264000	JI	03-Mar-07	RF	21. Mar. 2007		18
	521852	496657	7266185	JI	03-Mar-07	RF	21. Mar. 2007		18
	521856	485995	7263621	RF	03-Mar-07	RF	21. Mar. 2007		18
	521886	487325	7264393	RF	03-Mar-07	RF	21. Mar. 2007		18
	521911	495787	7263740	JI	03-Mar-07	RF	21. Mar. 2007		18
	521930	497137	7267306	JI	03-Mar-07	RF	21. Mar. 2007		18
	521940	489341	7265473	RF	03-Mar-07	RF	21. Mar. 2007		18
	521968	490240	7265950	RF	03-Mar-07	RF	21. Mar. 2007		18
	521969	496257	7265223	JI	03-Mar-07	RF	21. Mar. 2007		18
	521970	496463	7265720	JI	03-Mar-07	RF	21. Mar. 2007		18
	521265	492141	7266711	RF	04-Mar-07	RF	22. Mar. 2007		18
	521283	498242	7269234	JI	04-Mar-07	RF	22. Mar. 2007		18

Talisman Great Bear Plains Survey
Field Information

Sent Modules	Module #	Easting	Northing	Initials	Date Ent.	Initials	Date Rec.	Notes	EXP
	521314	497751	7268666	JI	04-Mar-07	RF	22. Mar. 2007		18
	521339	493399	7267175	RF	04-Mar-07	RF	22. Mar. 2007		18
	521343	499228	7270881	JI	04-Mar-07	RF	22. Mar. 2007		18
	521364	492405	7266781	RF	04-Mar-07	RF	22. Mar. 2007		18
	521381	498087	7269030	JI	04-Mar-07	RF	22. Mar. 2007		18
	521394	499478	7271304	JI	04-Mar-07	RF	22. Mar. 2007		18
	521443	499620	7271782	JI	04-Mar-07	RF	22. Mar. 2007		18
	521474	497910	7268854	JI	04-Mar-07	RF	22. Mar. 2007		18
	521511	493140	7267106	RF	04-Mar-07	RF	22. Mar. 2007		18
	521535	490451	7266015	RF	04-Mar-07	RF	22. Mar. 2007		18
	521543	497546	7268217	JI	04-Mar-07	RF	22. Mar. 2007		18
	521555	491179	7266355	RF	04-Mar-07	RF	22. Mar. 2007		18
	521558	499557	7271544	JI	04-Mar-07	RF	22. Mar. 2007		18
	521575	499057	7270483	JI	04-Mar-07	RF	22. Mar. 2007		18
	521594	498593	7269603	JI	04-Mar-07	RF	22. Mar. 2007		18
	521598	491413	7266444	RF	04-Mar-07	RF	22. Mar. 2007		18
	521602	492634	7266894	RF	04-Mar-07	RF	22. Mar. 2007		18
	521618	497639	7268444	JI	04-Mar-07	RF	22. Mar. 2007		18
	521651	497332	7267761	JI	04-Mar-07	RF	22. Mar. 2007		18
	521664	499351	7271095	JI	04-Mar-07	RF	22. Mar. 2007		18
	521665	498411	7269408	JI	04-Mar-07	RF	22. Mar. 2007		18
	521670	498736	7269803	JI	04-Mar-07	RF	22. Mar. 2007		18
	521707	491650	7266531	RF	04-Mar-07	RF	22. Mar. 2007		18
	521732	499706	7272000	JI	04-Mar-07	RF	22. Mar. 2007		18
	521739	498972	7270251	JI	04-Mar-07	RF	22. Mar. 2007		18
	521792	492896	7266990	RF	04-Mar-07	RF	22. Mar. 2007		18
	521802	491906	7266625	RF	04-Mar-07	RF	22. Mar. 2007		18
	521807	490052	7265821	RF	04-Mar-07	RF	22. Mar. 2007		18
	521855	497430	7267988	JI	04-Mar-07	RF	22. Mar. 2007		18
	521873	490941	7266256	RF	04-Mar-07	RF	22. Mar. 2007		18
	521898	490679	7266129	RF	04-Mar-07	RF	22. Mar. 2007		18
	522005	498869	7270017	JI	04-Mar-07	RF	22. Mar. 2007		18
	521255	500344	7273403	JI	05-Mar-07	RF	24. Mar. 2007		19
	521269	494492	7267862	RF	05-Mar-07	RF	24. Mar. 2007		19
	521279	495669	7268752	RF	05-Mar-07	RF	24. Mar. 2007		19
	521286	496480	7269173	RF	05-Mar-07	RF	24. Mar. 2007		19
	521298	500217	7273185	JI	05-Mar-07	RF	24. Mar. 2007		19
	521332	500131	7272959	JI	05-Mar-07	RF	24. Mar. 2007		19
	521362	500018	7272727	JI	05-Mar-07	RF	24. Mar. 2007		19
	521488	494096	7267526	RF	05-Mar-07	RF	24. Mar. 2007		19
	521515	501544	7275550	JI	05-Mar-07	RF	24. Mar. 2007		19
	521524	495435	7268646	RF	05-Mar-07	RF	24. Mar. 2007		19
	521642	500966	7274640	JI	05-Mar-07	RF	24. Mar. 2007		19
	521655	496125	7268980	RF	05-Mar-07	RF	24. Mar. 2007		19
	521669	494880	7268192	RF	05-Mar-07	RF	24. Mar. 2007		19
	521682	501110	7274838	JI	05-Mar-07	RF	24. Mar. 2007		19
	521705	499809	7272279	JI	05-Mar-07	RF	24. Mar. 2007		19
	521722	500617	7273977	JI	05-Mar-07	RF	24. Mar. 2007		19
	521742	501409	7275281	JI	05-Mar-07	RF	24. Mar. 2007		19
	521743	500728	7274205	JI	05-Mar-07	RF	24. Mar. 2007		19
	521760	495012	7268302	RF	05-Mar-07	RF	24. Mar. 2007		19
	521773	500831	7274429	JI	05-Mar-07	RF	24. Mar. 2007		19
	521815	493642	7267271	RF	05-Mar-07	RF	24. Mar. 2007		19
	521831	495891	7268869	RF	05-Mar-07	RF	24. Mar. 2007		19
	521843	494689	7268030	RF	05-Mar-07	RF	24. Mar. 2007		19
	521866	499911	7272504	JI	05-Mar-07	RF	24. Mar. 2007		19
	521936	500424	7273634	JI	05-Mar-07	RF	24. Mar. 2007		19

Talisman Great Bear Plains Survey
Field Information

Sent Modules	Module #	Easting	Northing	Initials	Date Ent.	Initials	Date Rec.	Notes	EXP
	521942	501256	7275046	Jl	05-Mar-07	RF	24. Mar. 2007		19
	521947	493883	7267392	RF	05-Mar-07	RF	24. Mar. 2007		19
	521957	495210	7268469	RF	05-Mar-07	RF	24. Mar. 2007		19
	521965	496226	7269214	RF	05-Mar-07	RF	24. Mar. 2007		19
	521991	494297	7267698	RF	05-Mar-07	RF	24. Mar. 2007		19
	521321	502764	7277904	Ji	07-Mar-07	RF	24. Mar. 2007		17
	521326	502392	7277209	Ji	07-Mar-07	RF	24. Mar. 2007		17
	521350	502142	7276761	Ji	07-Mar-07	RF	24. Mar. 2007		17
	521526	502483	7277833	Ji	07-Mar-07	RF	24. Mar. 2007		17
	521539	502025	7276540	Ji	07-Mar-07	RF	24. Mar. 2007		17
	521631	502268	7276991	Ji	07-Mar-07	RF	24. Mar. 2007		17
	521652	502657	7277691	Ji	07-Mar-07	RF	24. Mar. 2007		17
	521820	502513	7277438	Ji	07-Mar-07	RF	24. Mar. 2007		17
	521864	502246	7277918	Ji	07-Mar-07	RF	24. Mar. 2007		17
	521262	496715	7269266	RF	07-Mar-07	RF	24. Mar. 2007		17
	521306	499391	7270740	RF	07-Mar-07	RF	24. Mar. 2007		17
	521341	501703	7275831	RF	07-Mar-07	RF	24. Mar. 2007		17
	521349	501786	7276099	RF	07-Mar-07	RF	24. Mar. 2007		17
	521379	499407	7271169	RF	07-Mar-07	RF	24. Mar. 2007		17
	521503	498216	7270287	RF	07-Mar-07	RF	24. Mar. 2007		17
	521528	499610	7271709	RF	07-Mar-07	RF	24. Mar. 2007		17
	521616	499217	7270557	RF	07-Mar-07	RF	24. Mar. 2007		17
	521671	501911	7276337	RF	07-Mar-07	RF	24. Mar. 2007		17
	521685	497357	7269687	RF	07-Mar-07	RF	24. Mar. 2007		17
	521733	497153	7269534	RF	07-Mar-07	RF	24. Mar. 2007		17
	521759	498725	7270384	RF	07-Mar-07	RF	24. Mar. 2007		17
	521766	499271	7270968	RF	07-Mar-07	RF	24. Mar. 2007		17
	521786	497799	7269961	RF	07-Mar-07	RF	24. Mar. 2007	L	17
	521871	499524	7271461	RF	07-Mar-07	RF	24. Mar. 2007		17
	521884	498969	7270490	RF	07-Mar-07	RF	24. Mar. 2007		17
	521905	497979	7270154	RF	07-Mar-07	RF	24. Mar. 2007		17
	521928	496948	7269384	RF	07-Mar-07	RF	24. Mar. 2007		17
	521951	498473	7270376	RF	07-Mar-07	RF	24. Mar. 2007		17
	521996	497572	7269847	RF	07-Mar-07	RF	24. Mar. 2007		17
	521291	484910	7303759	Ji	08-Mar-07	RF	22. Mar. 2007	m.	14
	521324	484978	7303815	Ji	08-Mar-07	RF	22. Mar. 2007	m.	14
	521460	484858	7303818	Ji	08-Mar-07	RF	22. Mar. 2007	m.	14
	521572	484869	7303793	Ji	08-Mar-07	RF	22. Mar. 2007	m.	14
	521607	484849	7303834	Ji	08-Mar-07	RF	22. Mar. 2007	m.	14
	521629	484863	7303803	Ji	08-Mar-07	RF	22. Mar. 2007	m.	14
	521662	484929	7303760	Ji	08-Mar-07	RF	22. Mar. 2007	m.	14
	521709	484852	7303851	Ji	08-Mar-07	RF	22. Mar. 2007	m.	14
	521746	484849	7303871	Ji	08-Mar-07	RF	22. Mar. 2007	m.	14
	521758	484956	7303781	Ji	08-Mar-07	RF	22. Mar. 2007	m.	14
	521836	484945	7303764	Ji	08-Mar-07	RF	22. Mar. 2007	m.	14
	521902	484880	7303779	Ji	08-Mar-07	RF	22. Mar. 2007	m.	14
	521904	484969	7303798	Ji	08-Mar-07	RF	22. Mar. 2007	m.	14
	521918	484851	7303889	Ji	08-Mar-07	RF	22. Mar. 2007	m.	14
	521939	484893	7303768	Ji	08-Mar-07	RF	22. Mar. 2007	m.	14
	521300	499773	7278735	RF	08-Mar-07	RF	24. Mar. 2007		16
	521327	500765	7278409	RF	08-Mar-07	RF	24. Mar. 2007		16
	521367	496795	7279426	RF	08-Mar-07	RF	24. Mar. 2007		16
	521388	500013	7278656	RF	08-Mar-07	RF	24. Mar. 2007		16
	521415	499019	7278902	RF	08-Mar-07	RF	24. Mar. 2007		16
	521455	497781	7279197	RF	08-Mar-07	RF	24. Mar. 2007		16
	521462	499519	7278791	RF	08-Mar-07	RF	24. Mar. 2007		16
	521510	499273	7278844	RF	08-Mar-07	RF	24. Mar. 2007		16

Talisman Great Bear Plains Survey
Field Information

Sent Modules	Module #	Easting	Northing	Initials	Date Ent.	Initials	Date Rec.	Notes	EXP
	521545	496304	7279747	RF	08-Mar-07	RF	24. Mar. 2007		16
	521567	500494	7278498	RF	08-Mar-07	RF	24. Mar. 2007		16
	521593	498276	7279064	RF	08-Mar-07	RF	24. Mar. 2007		16
	521619	497288	7279335	RF	08-Mar-07	RF	24. Mar. 2007		16
	521649	501779	7278077	RF	08-Mar-07	RF	24. Mar. 2007		16
	521679	502019	7277997	RF	08-Mar-07	RF	24. Mar. 2007		16
	521694	501529	7278159	RF	08-Mar-07	RF	24. Mar. 2007		16
	521713	498522	7279012	RF	08-Mar-07	RF	24. Mar. 2007		16
	521795	500258	7278577	RF	08-Mar-07	RF	24. Mar. 2007		16
	521833	496597	7279592	RF	08-Mar-07	RF	24. Mar. 2007		16
	521841	498767	7278960	RF	08-Mar-07	RF	24. Mar. 2007		16
	521896	498026	7279132	RF	08-Mar-07	RF	24. Mar. 2007		16
	521914	501017	7278336	RF	08-Mar-07	RF	24. Mar. 2007		16
	521967	501281	7278238	RF	08-Mar-07	RF	24. Mar. 2007		16
	521972	497033	7279409	RF	08-Mar-07	RF	24. Mar. 2007		16
	521973	497547	7279266	RF	08-Mar-07	RF	24. Mar. 2007		16
	521311	492551	7242726	RF	11-Mar-07	RF	26. Mar. 2007		15
	521425	494800	7243722	RF	11-Mar-07	RF	26. Mar. 2007		15
	521441	494078	7243407	RF	11-Mar-07	RF	26. Mar. 2007		15
	521493	495017	7243814	RF	11-Mar-07	RF	26. Mar. 2007		15
	521514	493024	7242939	RF	11-Mar-07	RF	26. Mar. 2007		15
	521571	493838	7243307	RF	11-Mar-07	RF	26. Mar. 2007		15
	521588	494311	7243506	RF	11-Mar-07	RF	26. Mar. 2007		15
	521654	493362	7243097	RF	11-Mar-07	RF	26. Mar. 2007		15
	521784	493599	7243203	RF	11-Mar-07	RF	26. Mar. 2007		15
	521788	492311	7242615	RF	11-Mar-07	RF	26. Mar. 2007		15
	521812	494551	7243613	RF	11-Mar-07	RF	26. Mar. 2007		15
	521994	492790	7242832	RF	11-Mar-07	RF	26. Mar. 2007		15
	521259	375250	7429743	RF	15-Mar-07	RF	29. Mar. 2007		14
	521299	376299	7430396	RF	15-Mar-07	RF	29. Mar. 2007		14
	521346	376501	7430530	RF	15-Mar-07	RF	29. Mar. 2007		14
	521376	375463	7429873	RF	15-Mar-07	RF	29. Mar. 2007		14
	521385	372009	7427690	RF	14-Mar-07	RF	29. Mar. 2007		15
	521438	375034	7429595	RF	15-Mar-07	RF	29. Mar. 2007		14
	521533	371548	7427402	RF	14-Mar-07	RF	29. Mar. 2007		15
	521546	372893	7428245	RF	14-Mar-07	RF	29. Mar. 2007		15
	521548	376710	7430659	RF	15-Mar-07	RF	29. Mar. 2007		14
	521617	372445	7427965	RF	14-Mar-07	RF	29. Mar. 2007		15
	521634	373326	7428526	RF	14-Mar-07	RF	29. Mar. 2007		15
	521763	373780	7428812	RF	14-Mar-07	RF	29. Mar. 2007		15
	521768	374817	7429466	RF	15-Mar-07	RF	29. Mar. 2007		14
	521789	376111	7430280	RF	15-Mar-07	RF	29. Mar. 2007		14
	521806	374612	7429329	RF	14-Mar-07	RF	29. Mar. 2007		15
	521945	375901	7430150	RF	15-Mar-07	RF	29. Mar. 2007		14
	521953	374204	7429076	RF	14-Mar-07	RF	29. Mar. 2007		15
	521976	375689	7430012	RF	15-Mar-07	RF	29. Mar. 2007		14
	521284	628312	7436402	RF	14-Mar-07	RF	29. Mar. 2007	m.	15
	521293	628260	7436359	RF	14-Mar-07	RF	29. Mar. 2007	m.	15
	521344	628359	7436262	RF	14-Mar-07	RF	29. Mar. 2007	m.	15
	521483	628330	7436277	RF	14-Mar-07	RF	29. Mar. 2007	m.	15
	521523	628386	7436268	RF	14-Mar-07	RF	29. Mar. 2007	m.	15
	521605	628451	7436332	RF	14-Mar-07	RF	29. Mar. 2007	m.	15
	521615	628418	7436281	RF	14-Mar-07	RF	29. Mar. 2007	m.	15
	521659	628462	7436359	RF	14-Mar-07	RF	29. Mar. 2007	m.	15
	521723	628304	7436304	RF	14-Mar-07	RF	29. Mar. 2007	m.	15
	521740	628439	7436318	RF	14-Mar-07	RF	29. Mar. 2007	m.	15
	521867	628316	7436290	RF	14-Mar-07	RF	29. Mar. 2007	m.	15

Talisman Great Bear Plains Survey
Field Information

Sent Modules	Module #	Easting	Northing	Initials	Date Ent.	Initials	Date Rec.	Notes	EXP
	521890	628289	7436323	RF	14-Mar-07	RF	29. Mar. 2007	m.	15
	521922	628267	7436340	RF	14-Mar-07	RF	29. Mar. 2007	m.	15
	521987	628290	7436386	RF	14-Mar-07	RF	29. Mar. 2007	m.	15
	521280	373130	7428306	RF	13-Mar-07	RF	29. Mar. 2007	m.	16
	521457	373208	7428366	RF	13-Mar-07	RF	29. Mar. 2007	m.	16
	521568	373008	7428410	RF	13-Mar-07	RF	29. Mar. 2007	m.	16
	521570	373189	7428345	RF	13-Mar-07	RF	29. Mar. 2007	m.	16
	521686	373186	7428398	RF	13-Mar-07	RF	29. Mar. 2007	m.	16
	521720	373086	7428282	RF	13-Mar-07	RF	29. Mar. 2007	m.	16
	521750	373009	7428422	RF	13-Mar-07	RF	29. Mar. 2007	m.	16
	521783	373025	7428373	RF	13-Mar-07	RF	29. Mar. 2007	m.	16
	521822	373171	7428335	RF	13-Mar-07	RF	29. Mar. 2007	m.	16
	521850	373202	7428351	RF	13-Mar-07	RF	29. Mar. 2007	m.	16
	521857	373032	7428359	RF	13-Mar-07	RF	29. Mar. 2007	m.	16
	521910	373072	7428299	RF	13-Mar-07	RF	29. Mar. 2007	m.	16
	521921	373195	7428387	RF	13-Mar-07	RF	29. Mar. 2007	m.	16
	521988	373148	7428318	RF	13-Mar-07	RF	29. Mar. 2007	m.	16
	522010	373108	7428294	RF	13-Mar-07	RF	29. Mar. 2007	m.	16

Talisman Great Bear Plains Survey
Field Information

.22
1-47
C-12

Talisman Great Bear Plains Survey
Field Information

Talisman Great Bear Plains Survey
Field Information

Talisman Great Bear Plains Survey
Field Information

Talisman Great Bear Plains Survey
Field Information

Talisman Great Bear Plains Survey
Field Information

Talisman Great Bear Plains Survey
Field Information

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Field Information

APPENDIX D:

Customer-Supplied Information

1. Project Information Form



GORE
ProjectInfoForm0611

2. Geologic Information



Tweed Lake M-47.tif

[link to electronic file]



North Tweed Lake
C-12.tif

[link to electronic file]



Tweed Lake A-67.tif

[link to electronic file]

PROJECT INFORMATION FORM

Date **Nov 14, 2006** Completed by **Timo Von Rudloff**

1. Company Information

Name **Talisman Energy Inc.**

Address **Suite 3400**

888 – 3rd Street SW

Calgary, AB T2P 5C5

Your Name **Timo Von Rudloff**

Title **Senior Geophysicist - Exploration, Global New Ventures**

Telephone **403 237 1261** Fax

Email **TVonRudloff@talisman-energy.com**

Preferred Method of Communication email

Best Time to Contact You weekdays

Your Previous Geochemical Experience non-participant, overview

2. Where to send this information:

W. L. Gore & Associates, Inc.
GORE-SORBER® Exploration Survey
100 Chesapeake Blvd.
P. O. Box 10
Elkton, MD 21922-0010 USA

Phone: 410-506-4777

Fax: 410-506-4780

3. For questions or comments:

Paul Harrington, phone 410-506-4773, email pharring@wlgore.com
Alan Silliman, phone 410-506-4772, email asillima@wlgore.com
Mark Wrigley, phone 410-506-4771, email mwrigley@wlgore.com
Ray Fenstermacher, phone 410-506-4775, email rfenster@wlgore.com

4. Geochemical Survey Objective

Primary

Determine the probability of significant hydrocarbon accumulations structurally trapped in the Cambrian Mount Clark formation on Exploration License 437 in the Great Bear Plains area of the Northwest Territories of Canada based on modeled accumulations in the Colville Hills area.

Secondary

5. Survey Design

We encourage a cooperative approach to designing the most effective geochemical survey to meet the stated survey objectives. The following information will assist this process.

Survey application

- ☐ Development (define producing field limits, find bypass pay zones)
- ☒ Frontier (screen large unexplored areas)
- ☒ Exploration (focus seismic, prioritize leads, stratigraphic play areas)
- ☐ Offshore (analysis and modeling of core samples)
- ☐ Other:

Survey configuration

- ☐ Regular grid pattern
- ☐ Irregular grid pattern
- ☐ Determined by site access
- ☒ Line transect
- ☐ Random
- ☐ Other:

Sample Spacing	500 meters	Estimated Number of Samples	447 (Grid)
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Approximate Extent of Coverage (area km ² , line km)	222 line km
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6. Project Timing

Please indicate any time limits that apply to this survey. If necessary, projects may be expedited upon request (a fee may apply).

Field Mobilization	January 15, 2007	Complete Field Operations	February 20, 2007
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Preliminary Data	April 1, 2007	Submit Report	May 15, 2007
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7. Survey Area Information

Location	Great Bear Plains, West of Great Bear Lake		
Topography/Relief	Low relief hills and ridges populated with numerous lakes and one deep valley river (Whitefish River)		
Road/Trail Access	Limited, Along Seismic Lines, Winter Access Only		
Seismic Lines/Age	Mid 70's to Present		
Climate/Season during Field Operations	Winter (Jan – Mar), Northern Canada		
Survey Area Vegetation	Scrub Spruce with many lakes		
Survey Area Soil Type	Consolidate Cretaceous Bedrock		
(soil consolidation, sand or gravel content, factors affecting sample acquisition)			
Is Area Permitted?	Part of seismic program	Client Provide Logistics Support?	YES
Nearest Towns with Facilities	DELINE	SEISMIC OPERATIONS (Camp)	

8. Mapping

Please specify what geographical coordinate system is preferred for mapped results.

Projection	Ellipsoid
Geodetic Datum Parameters	NAD83

9. Geologic Overview

Geologic Basin	Great Bear Basin(Depo-center)
Petroleum System	Reservoir – Cambrian Mount Clark (Sst) (reservoir formation – source rock)
	Source Rock – Cambrian Mount Cap (Shale)
Faulting	Extensive reactivation of Proterozoic faults (prominent surface expressions, subsurface faulting, type of fault, throw, etc.)
Potential Trap Description	Major ridge complexes; reactivated Proterozoic fault (structural, stratigraphic, potential size and shape)
Structures & four-way closures	
Geologic Data Available?	Gravity, HRAM & recent seismic (2D); modeling of pools in the (well logs, seismic cross-sections, structural interpretations, previous geochemical data, etc.)
Colville Hills area (Tweed & Nogha)	

10. Reservoir Information

Physical measurements of the reservoir section and petroleum fluids encountered.

Formation (name and rock type)	Age	Depth (production)	Pressure (normal?)	Petroleum (type)	Porosity/Perm
Mt Clark	Cambrian	1200 - 1500m		Gas & Condensate	10-15%/500md

11. Well Site Information

This information used to define geochemical model sites for soil gas sampling. Please include dry holes and basement tests, along with nearby or regional production sites.

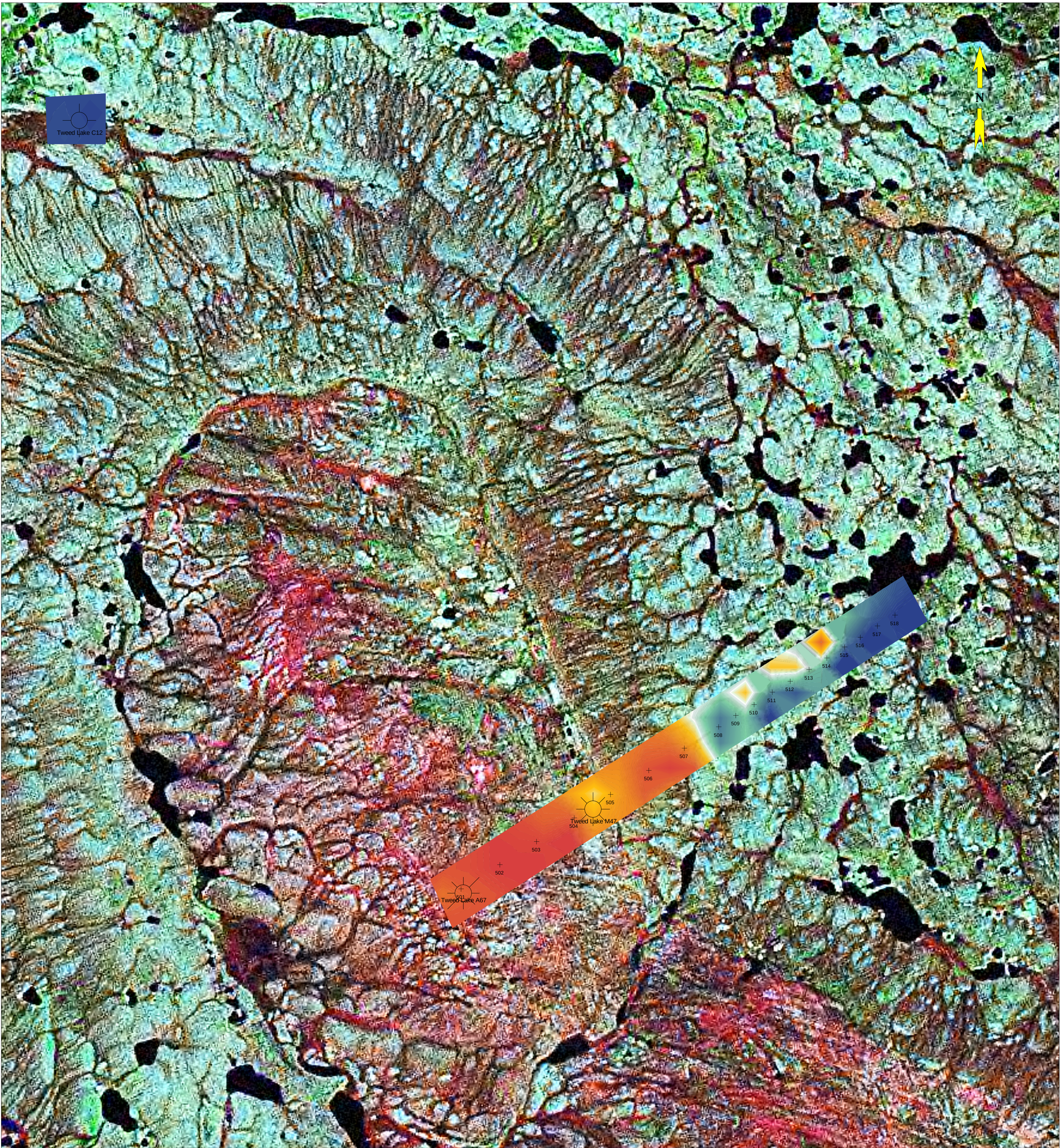
Well Name	Date (completion)	Oil (°API)	GOR	%Water	Production (bopd)	Produced (cumulative)
Losh Lake G-22	1975	Proterozoic Test			P & A	

Are secondary recovery techniques currently in use in the survey area, or with any of the above production wells? (Injection, gas lifting, workovers, frac or acidizing)

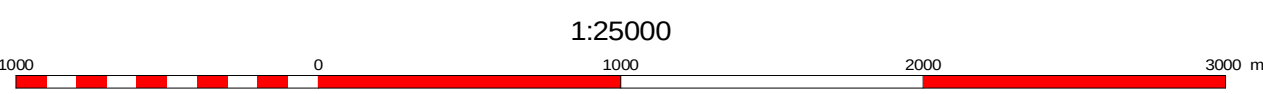
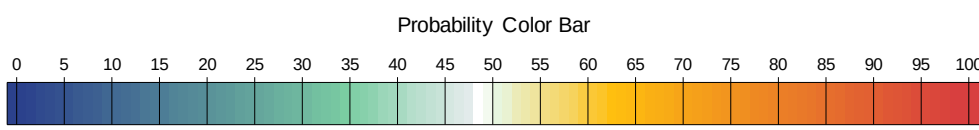
Well Name	Description

Are any of these wells directionally drilled or horizontally drilled?

Well Name	Description



Grid Samples
+ Sample Location



GORE™ Survey for Exploration			
 W.L. Gore & Associates, Inc. 300 Chesapeake Boulevard Elkton, MD 21921 USA (410) 362-7000			
Talisman Energy Inc. Suite 3400, 880 3 rd Street S.W. Calgary, Alberta T2P 5C5 Canada			
Tweed Lake Area, NWT			
Tweed Lake M47 Gas-Like Probability Distribution (Model 8)			
Date: 1.30.05.2007 Rev. Date	Drawn By: PSH Rev. #	Filename: Scale: 1:25,000	Site Code: DQX Project Number: 13045661

PLATES

Plate 1: Tweed Lake M47 Gas-like Probability Distribution (Colville Hills Area)



GGX-Tweed Lake
M47 Colville Hills.pdf

[[link to electronic file](#)]

Plate 2: Tweed Lake M47 Gas-like Probability Distribution (EL 437 Area)



GGX-Tweed Lake
M47 El 437 area.pdf

[[link to electronic file](#)]

Plate 3: Cluster 13 Gas-like Probability Distribution



GGX-Cluster 13
model.pdf

[[link to electronic file](#)]

Plate 4: Cluster 7 Gas-like Probability Distribution



GGX-Cluster 7
Model.pdf

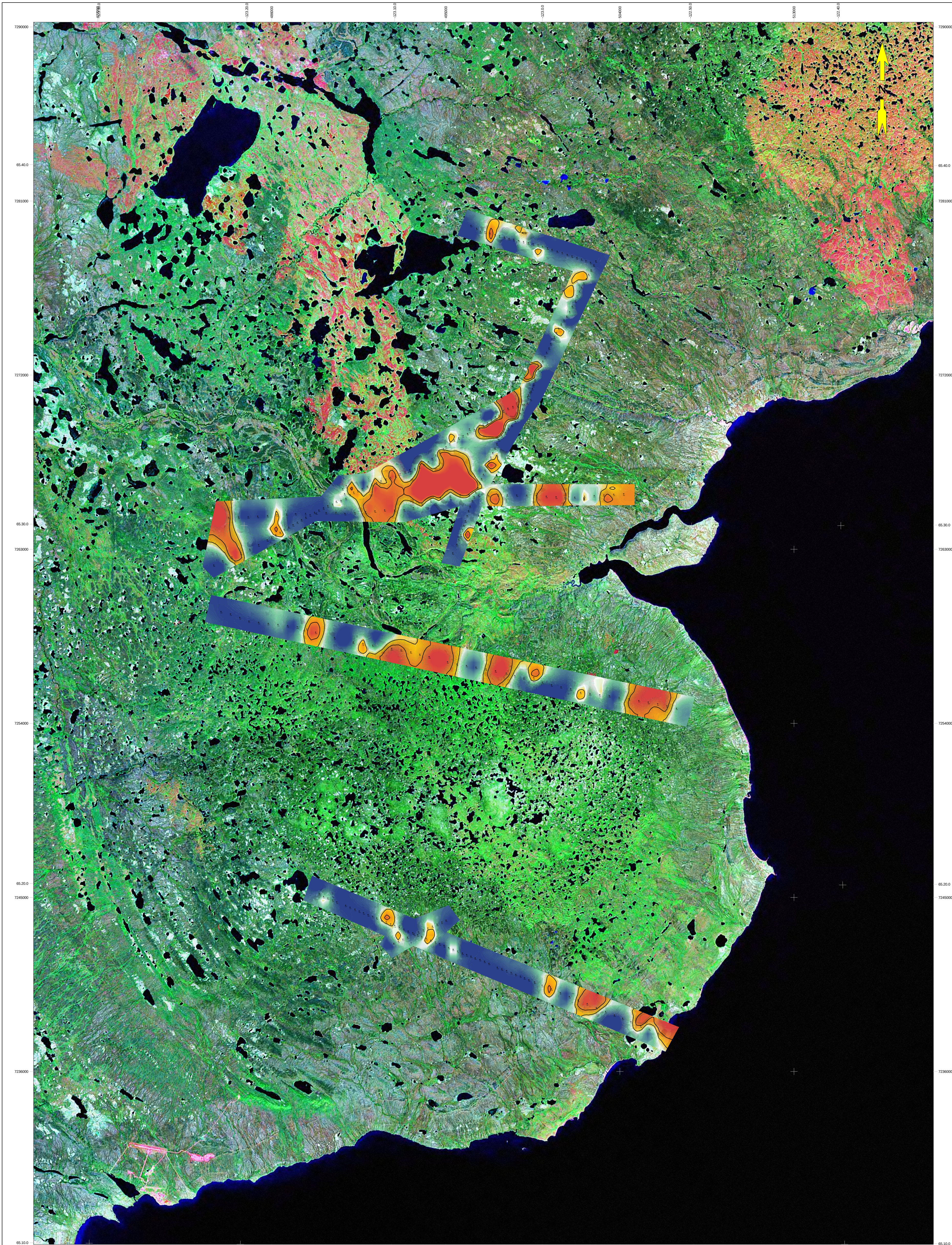
[[link to electronic file](#)]

Plate 5: Combined Cluster 7 & 13 Gas-like Probability Distribution

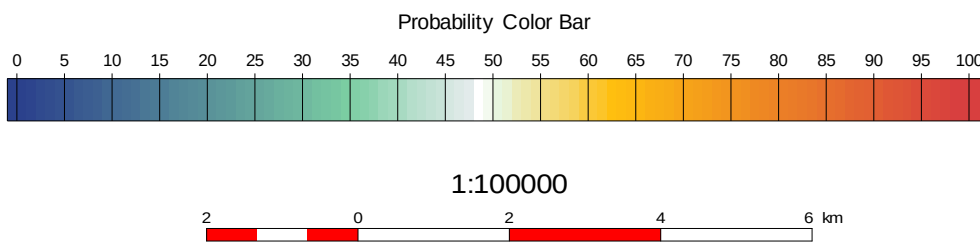


GGX-Cluster 7 and
13 Model.pdf

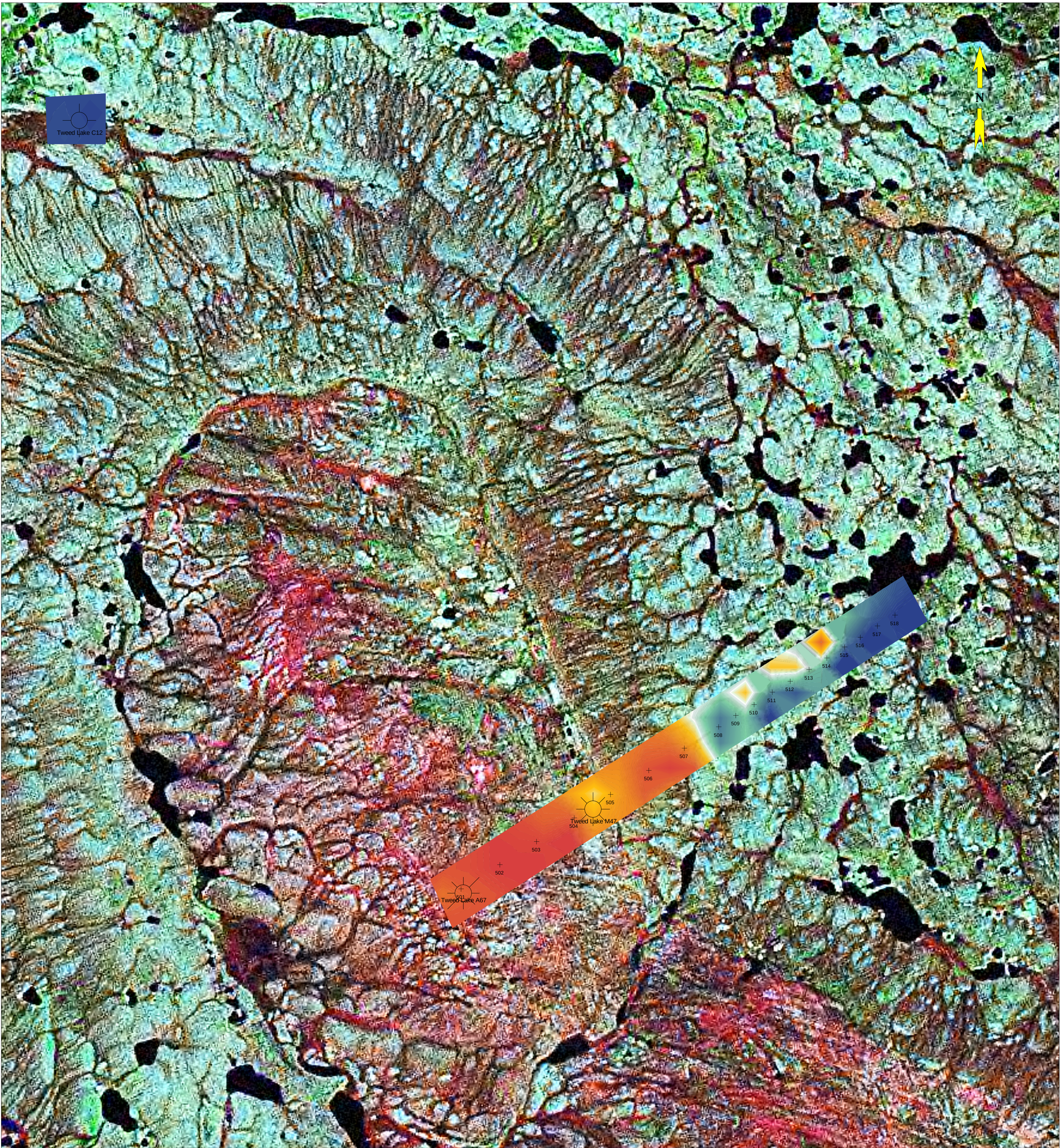
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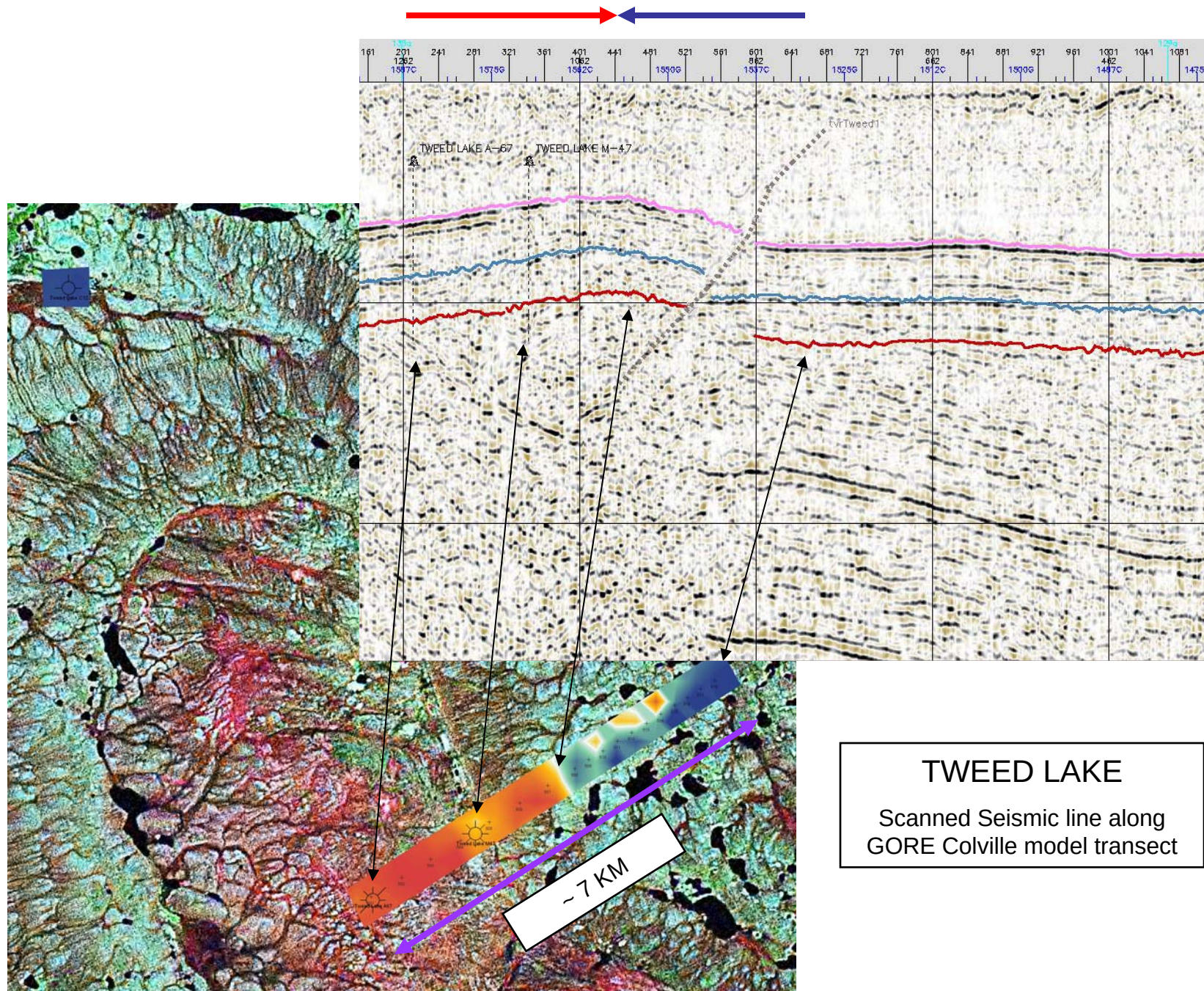
Grid Samples
+ Sample Location

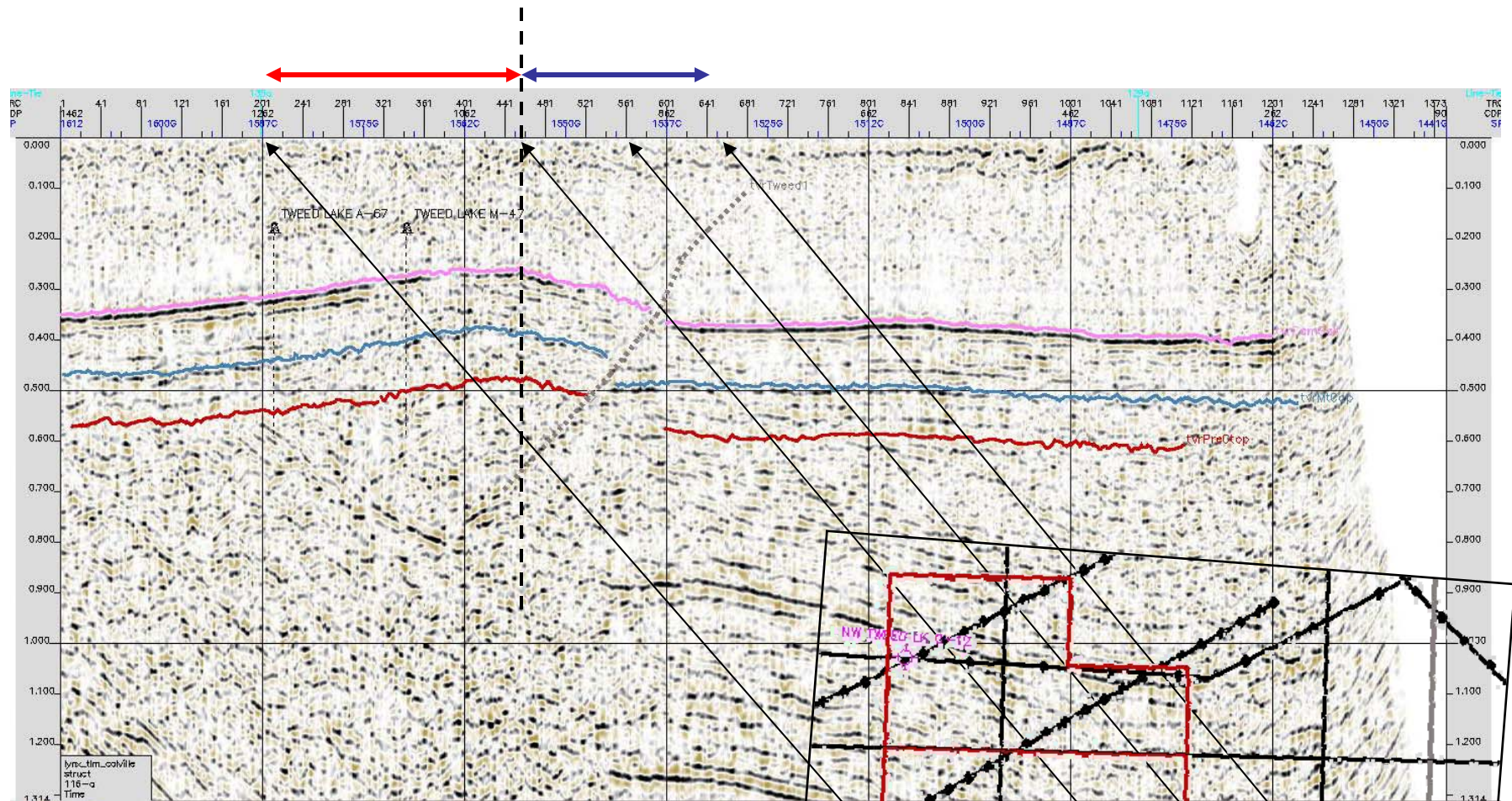


GORE™ Survey for Exploration			
W.L. Gore & Associates, Inc 100 Chesapeake Boulevard Elkton, MD 21921 USA (410) 362-7600			
Talisman Energy Inc. Suite 3400, 888 3rd Street S.W. Calgary, Alberta T2P 5C5 Canada			
Great Bear Plains Survey, NWT			
Tweed Lake M47 Gas-Like Probability Distribution (Model 8)			
Date: 1 June 2007	Drawn By: PAH	Filename:	Site Code: DGX
Rev. Date	Rev. #	Scale: 1:100,000	Project Number: 13045661

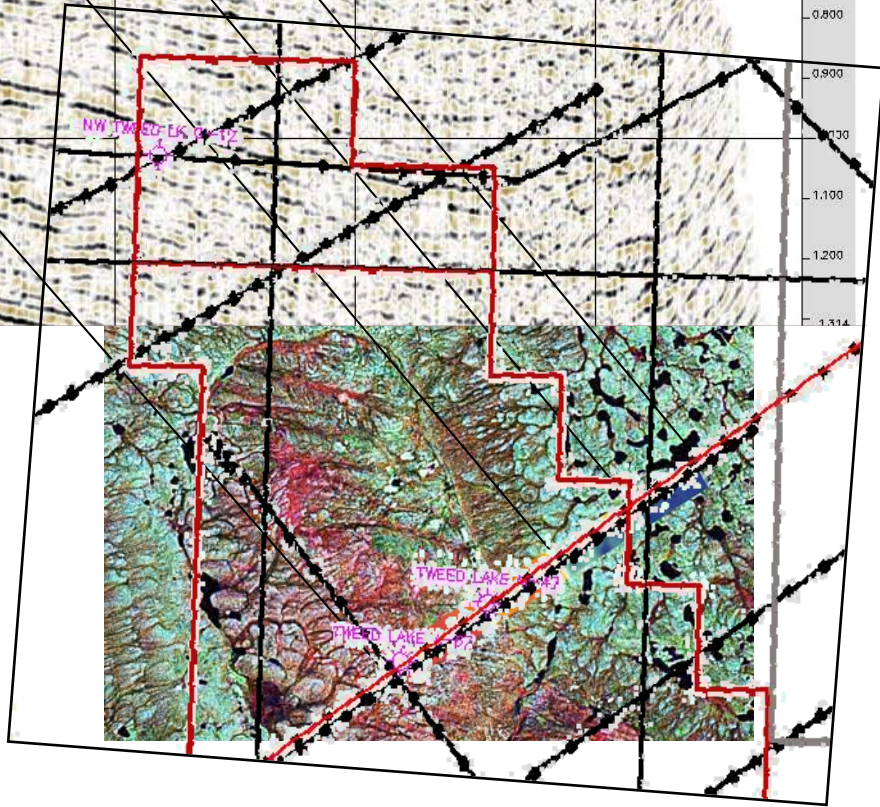


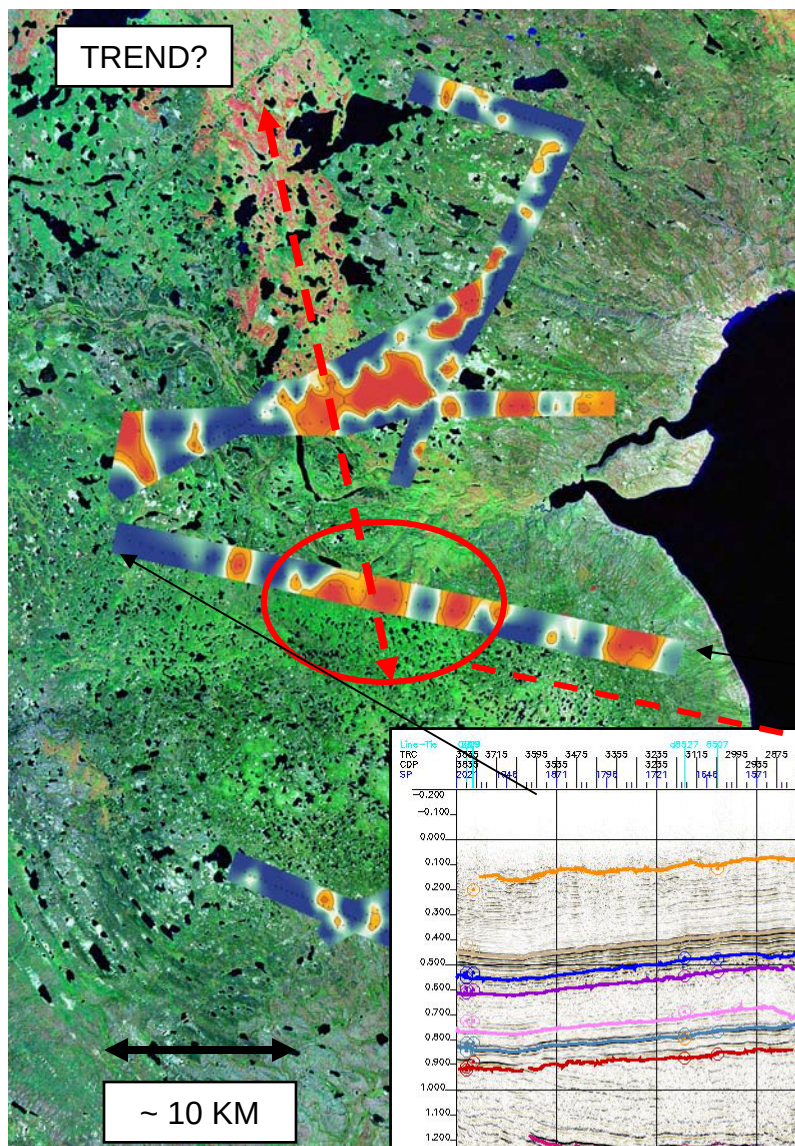
GORE™ Survey for Exploration			
GORE Geological Research & Exploration W.L. Gore & Associates, Inc. 100 Chesapeake Boulevard Elkton, MD 21921 USA (410) 362-7000			
Talisman Energy Inc. Suite 3400, 880 3rd Street S.W. Calgary, Alberta T2P 5C5 Canada Tweed Lake Area, NWT Tweed Lake M47 Gas-Like Probability Distribution (Model 8)			
Date: 13/05/2007 Rev. Date	Drawn By: PSH Rev. #	Filename: Scale: 1:25,000	Site Code: DQX Project Number: 13045661





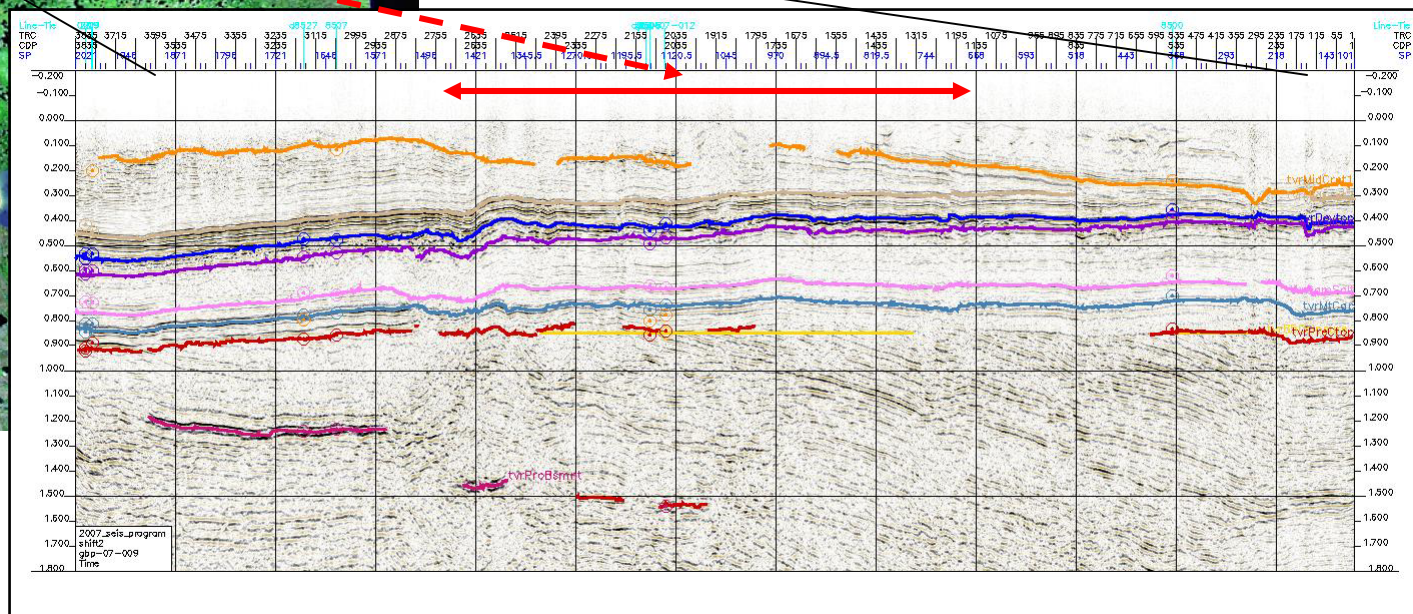
TWEED LAKE
 Alternate View, with seismic map
 Scanned Seismic line along GORE
 Colville model transect

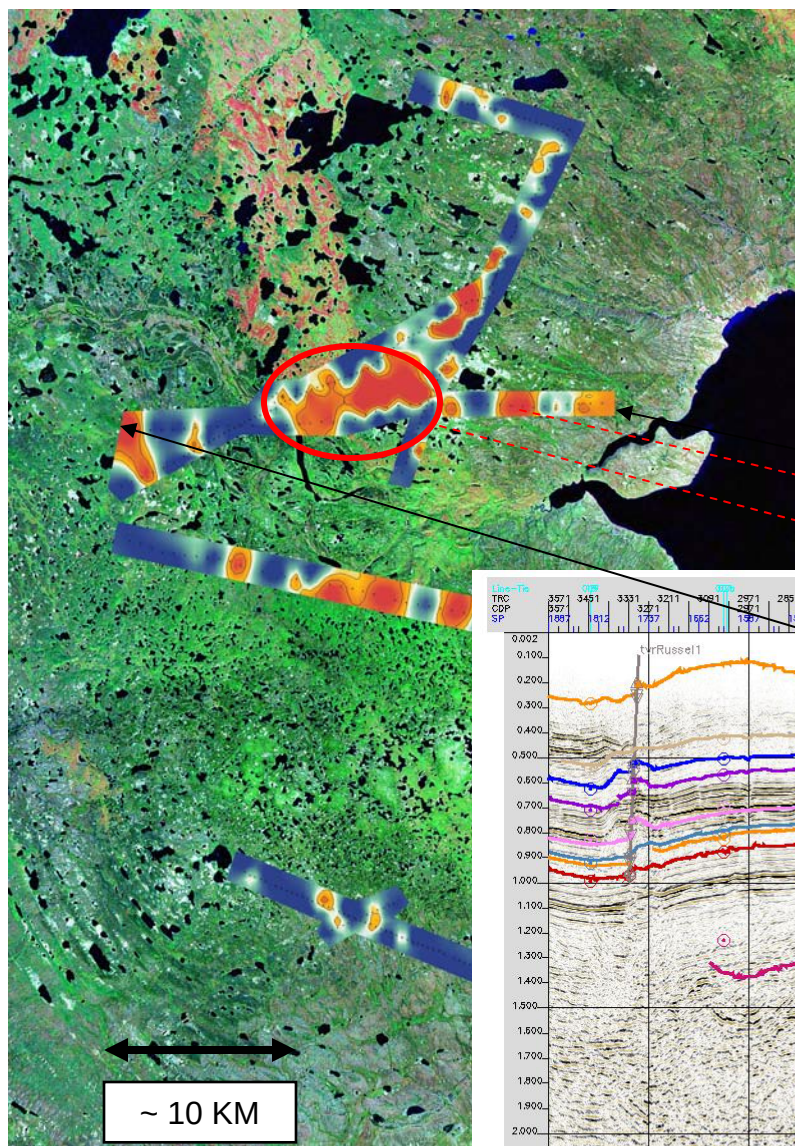




GORE HC Signatures appear to match local E-W Closures on Seismic lines

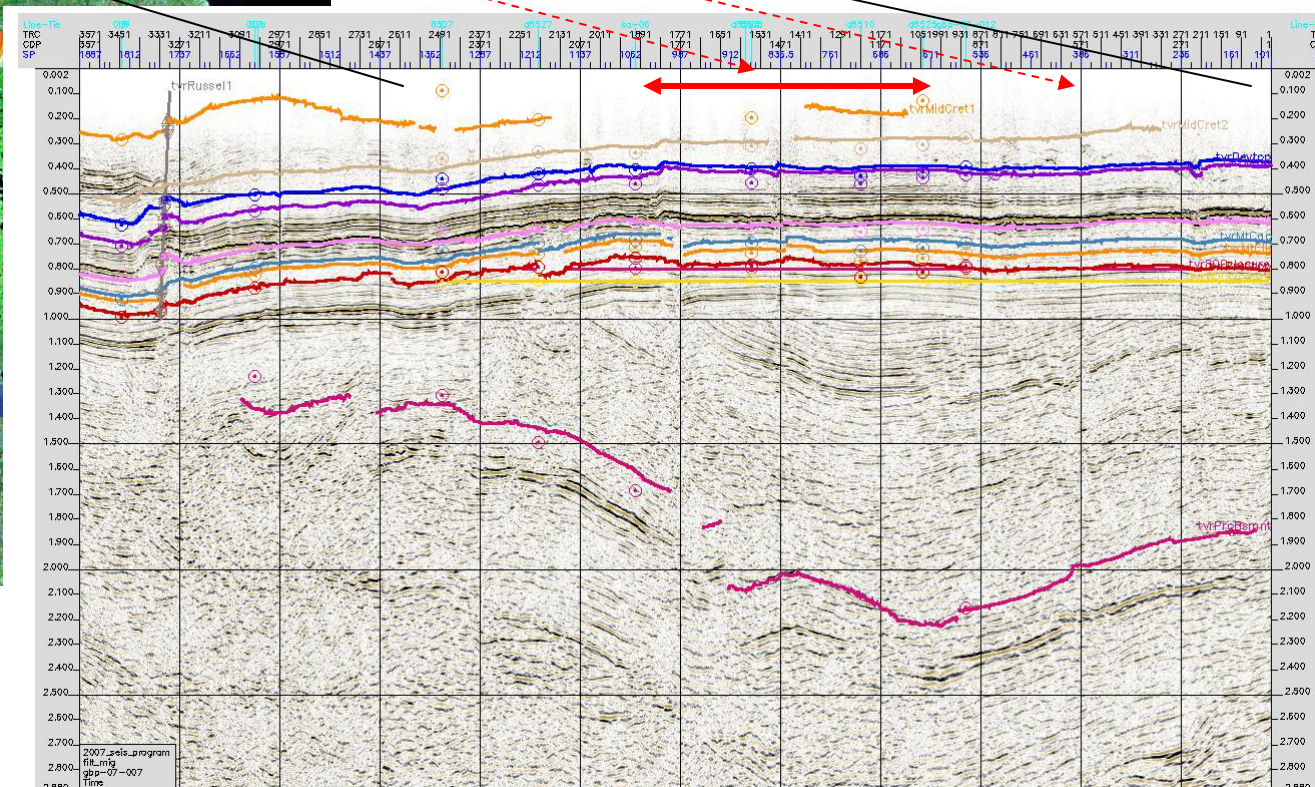
Positions are approximate, pending detailed data posting

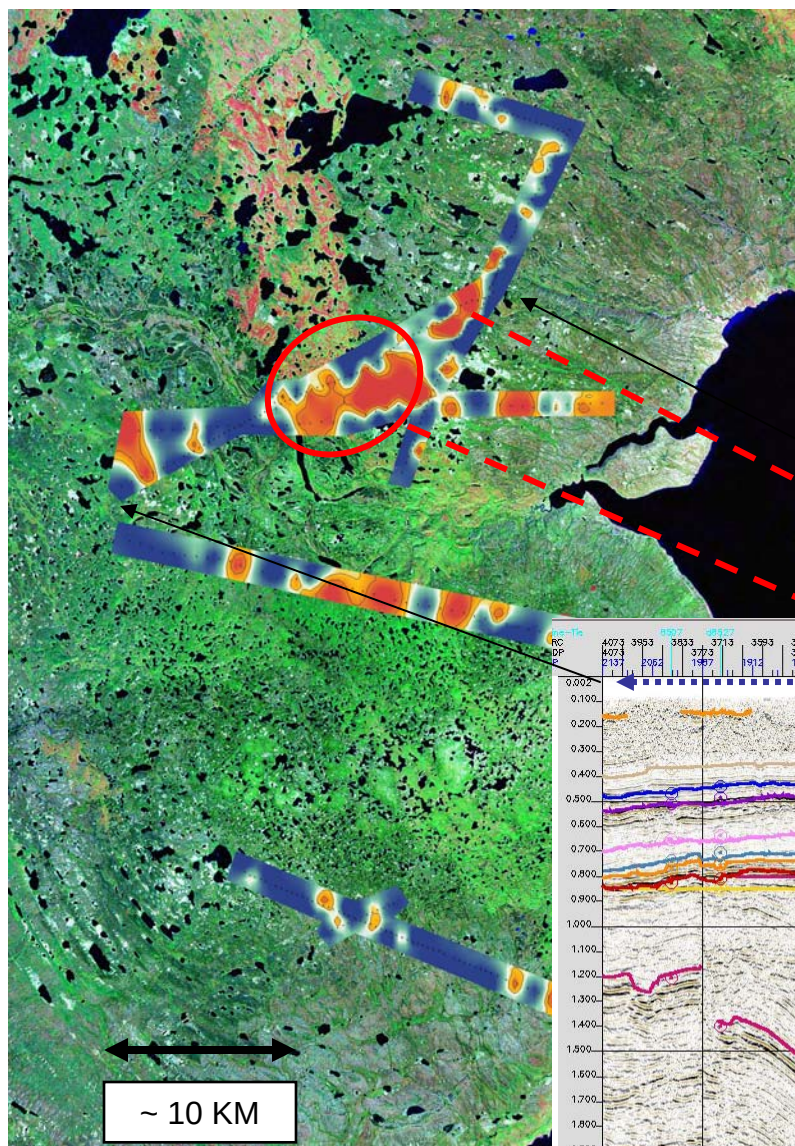




GORE HC Signatures appear to match local E-W
Closures on Seismic lines

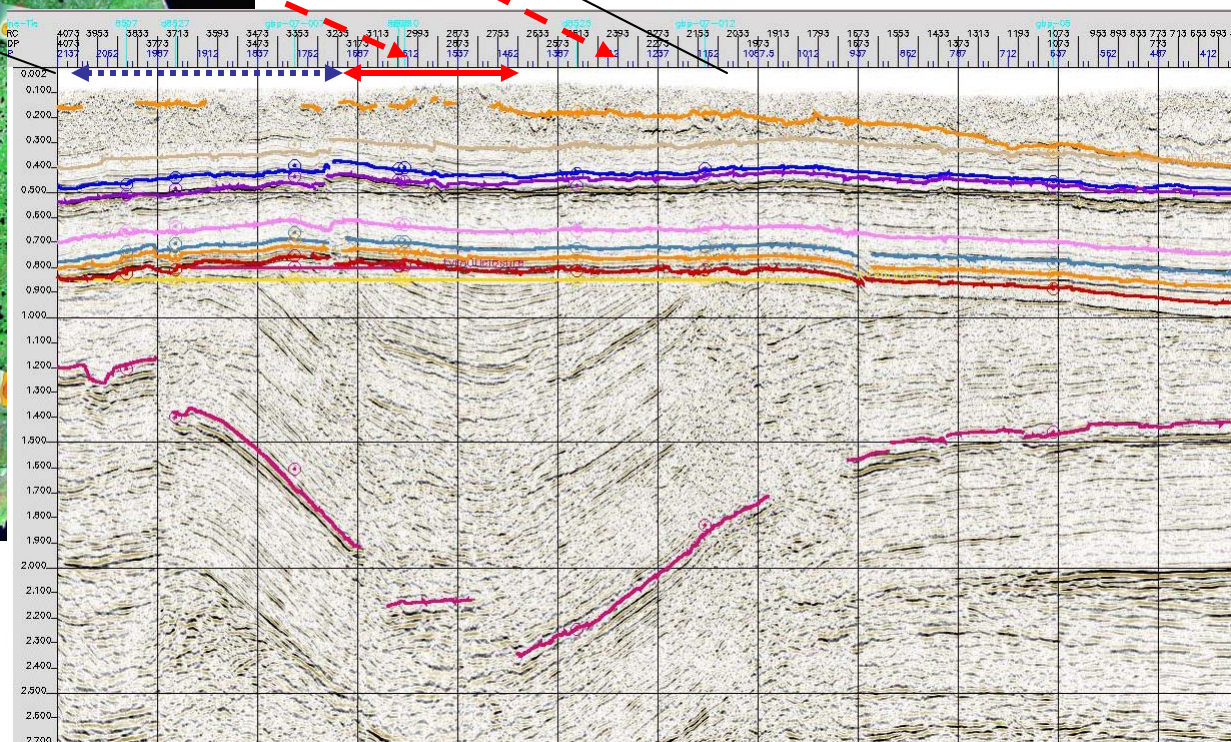
Positions are approximate, pending detailed data posting



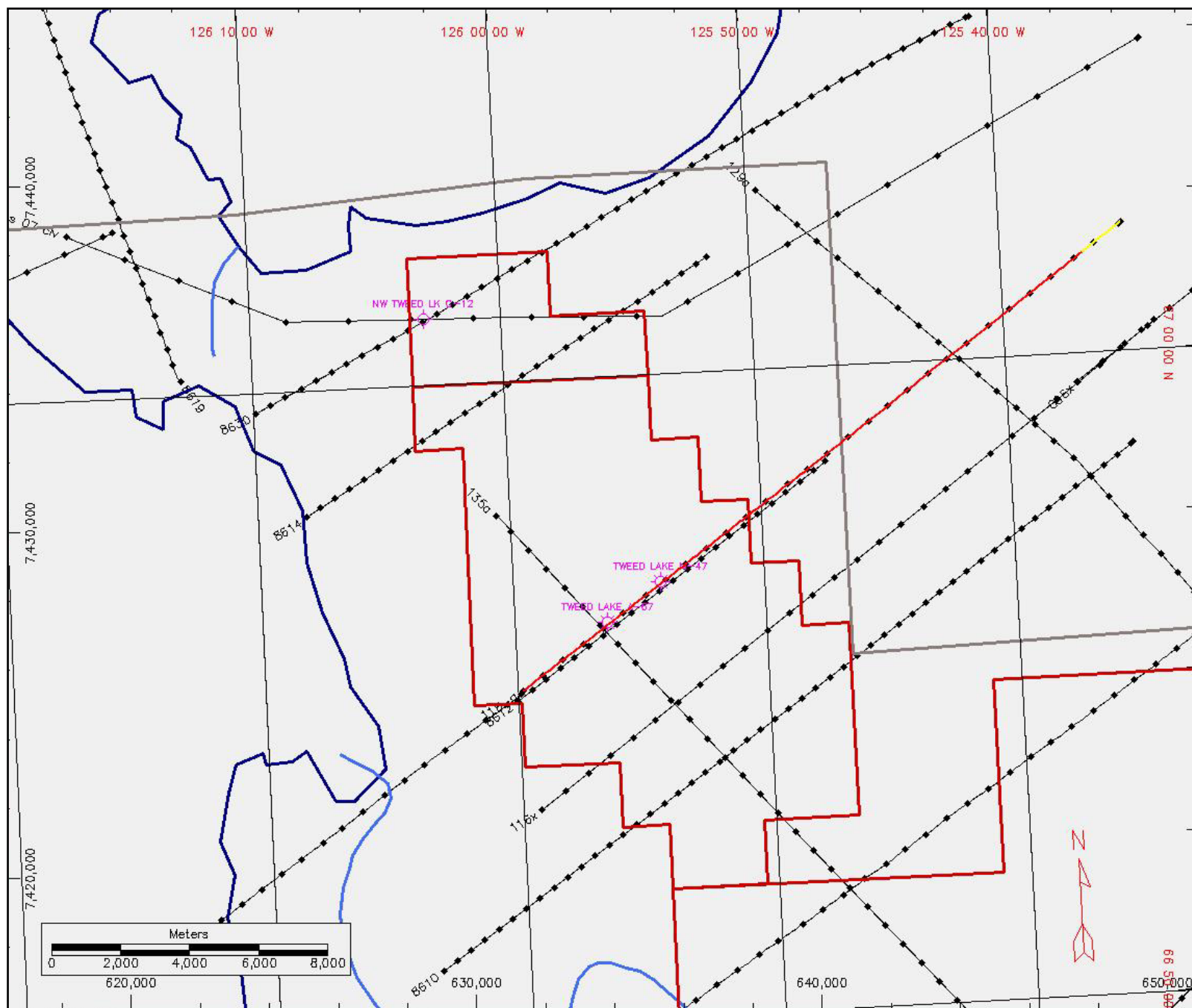


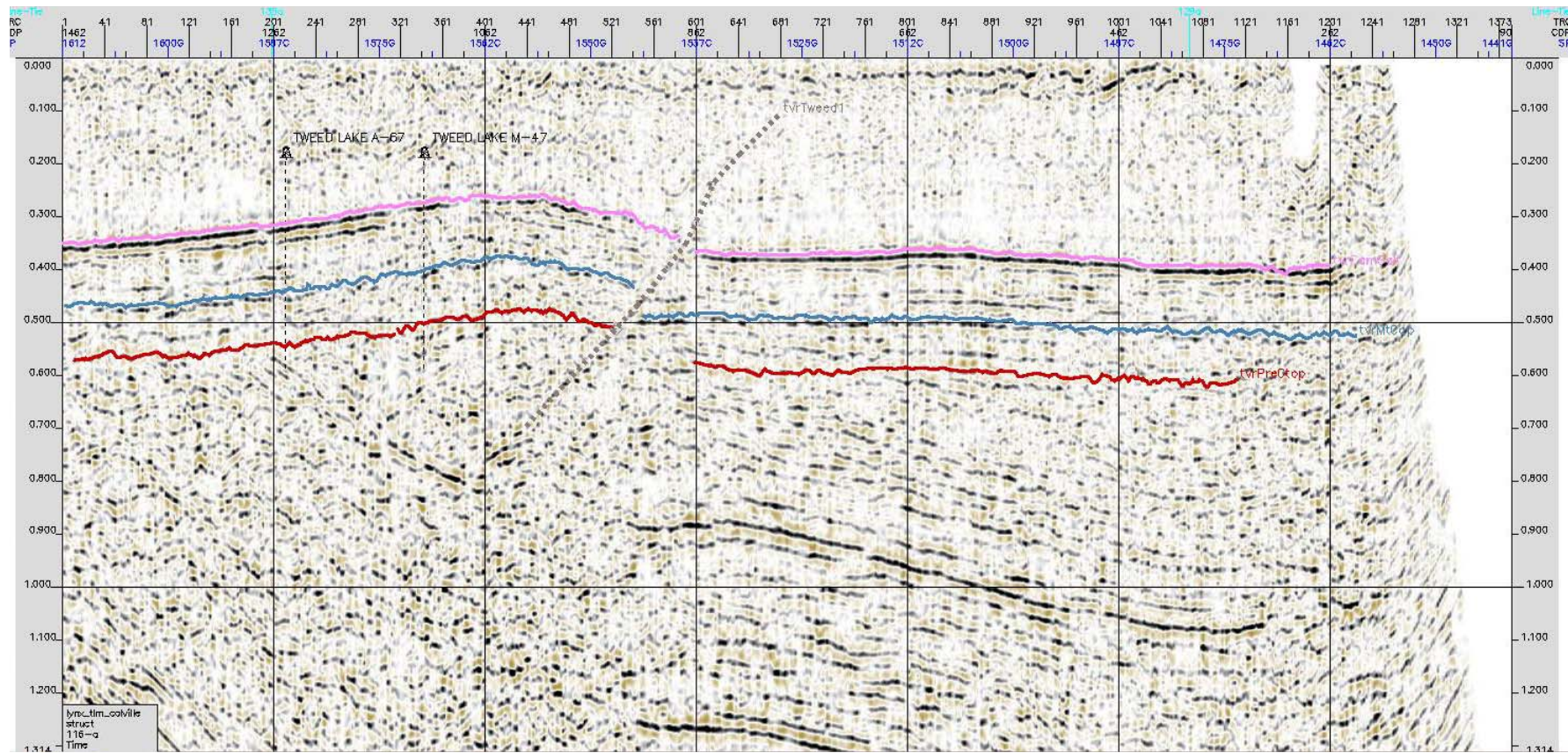
GORE HC Signatures appear to match local E-W
Closures on Seismic lines

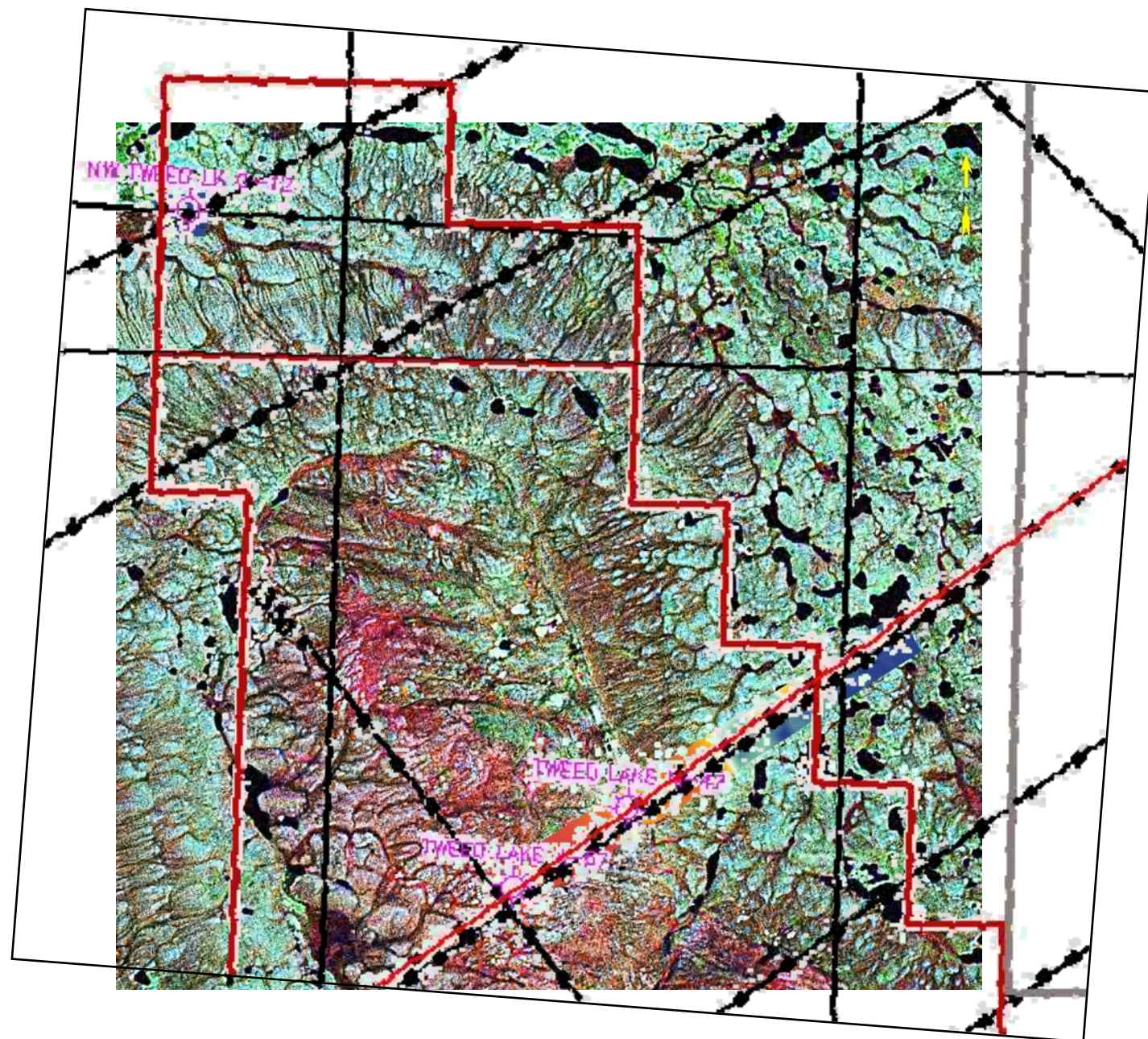
Positions are approximate, pending detailed data posting



2007 LINE KA-06







IMPORTANT NOTE:
Explanation and Disclaimer for Mass Data

PLEASE NOTE:

This file includes GORE™ Survey mass quantified data for all organic compounds analyzed for your geochemical survey.

The sheet labeled "Mass Data" contains quantified values in mass units for each field sample and quality assurance sample of this geochemical survey. These values are shown in units of nanograms (10^{-9} gm). These data are not adjusted for the significant digits of the measurement.

These data undergo an extensive quality evaluation to establish the fitness-for-use of these results. This evaluation includes both chemical and statistical criteria, in preparation for the geochemical modeling process. The sheet labeled "Low S2N Compounds" contains a list of compounds which were determined to be of low signal-to-noise content during the GORE fitness-for-use evaluation.

These data are intended for and only validated for use with the GORE™ Survey geochemical modeling process. Any other use, including comparison of results to whole petroleum fluids or to other geochemical data is solely at **user's own risk**. W. L. Gore & Associates make no warranties that the data is fit for other such uses.

Compound identification and quantification is based on the presence of specific target compound ions within well-defined chromatographic retention time ranges, as determined by the analysis of reference compound standards. Mass values are calculated using a time-weighted response factor determined from the analysis of the reference standards. Compound mass is equal to the compound-specific time-weighted response factor multiplied by the response for the compound obtained from the analytical instrument.

For example, for a reference standard of known mass, a response of **X** is obtained at time **A** and a response of **Y** is obtained at time **Z**. The difference between **X** and **Y**, divided by the difference between **A** and **Z**, yields a time-weighted correction factor. This correction factor is then used to determine the properly weighted response for a sample analyzed at any given time between **A** and **Z**.

Approximately twelve (12) field samples and quality assurance blank samples are analyzed between reference compound standards. Analytical results obtained from all field samples and quality assurance samples are included in the final mass data tables. The analytical sequence order is also included with this data.

Recommended Compounds for Deletion Compounds did not pass signal to noise
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Dimethyl Disulfide
Furan
1-Hexene
Hexane
2-Methylfuran
Benzene
1-Heptene
Toluene
Ethylbenzene
m,p-Xylenes
1-Nonene
o-Xylene
alpha-Pinene
Propylbenzene
1-Ethyl-2/3-methylbenzene
1,3,5-Trimethylbenzene
beta-Pinene
1-Ethyl-4-methylbenzene
1-Decene
1,2,4-Trimethylbenzene
Octanal
Benzofuran
Butylbenzene
Nonanal
1,2,4,5-Tetramethylbenzene
Camphor
Decanal
Benzothiazole
Caryophyllene
Acenaphthylene

Module Number	Index Number	Datum is NAD 83 Longitude	Datum is NAD 83 Latitude	Probability Value M8 Tweed Lake M-47
521630	101	489159	7244856	0
521502	102	488677	7245042	6
521938	103	489368	7244767	0
521706	104	488909	7244960	67
521574	105	488463	7245195	0
521557	106	490986	7244107	0
521882	107	491687	7243819	95
521449	108	491921	7243719	1
521454	109	492614	7243435	0
521993	110	491436	7243923	8
521487	111	490307	7244381	0
521396	112	490052	7244483	0
521625	113	492150	7243625	19
521531	114	491225	7244012	0
521932	115	490526	7244290	0
521538	116	490749	7244201	0
521290	117	492828	7243350	4
521431	118	492364	7243541	92
521985	119	489822	7244584	0
521644	120	493293	7243163	0
521620	121	498146	7241209	0
521693	122	494231	7242780	97
521482	123	496300	7241954	0
521303	124	496084	7242036	0
521641	125	498624	7241016	0
521770	126	495860	7242116	0
521547	127	493759	7242972	0
521897	128	499067	7240834	0
521708	129	495618	7242212	0
521714	130	497902	7241297	0
521432	131	495383	7242313	100
521698	132	493059	7243251	0
521267	133	494683	7242596	0
521564	134	498385	7241117	7
521507	135	497006	7241690	0
521463	136	494914	7242504	1
521859	137	498858	7240923	0
521260	138	497667	7241377	0
521442	139	497234	7241585	0
521737	140	495153	7242404	0
521348	141	496525	7241862	0
521393	142	494464	7242688	5
521611	143	496767	7241787	0
521582	144	493995	7242880	69
521337	145	493553	7243059	0
521900	146	503265	7239102	15
521981	147	502312	7239495	87
521580	148	500461	7240258	100
521650	149	501392	7239873	0
521569	150	505086	7238350	99

522013	151	506000	7237977	87
522009	152	504141	7238740	0
521870	153	501851	7239681	100
521551	154	502791	7239294	96
521887	155	499588	7240625	1
521929	156	503717	7238914	0
521689	157	500921	7240068	0
521874	158	505525	7238174	0
521752	159	499984	7240452	41
521803	160	499300	7240734	1
521281	161	504577	7238563	42
521288	162	485328	7259214	0
521903	163	489249	7258428	0
521387	164	484353	7259460	0
521808	165	490724	7258117	100
521294	166	483383	7259780	0
521885	167	485825	7259161	10
521261	168	486826	7259050	0
521600	169	490218	7258202	0
521883	170	487817	7258872	82
521627	171	484826	7259280	0
521272	172	487325	7258994	0
521832	173	486328	7259105	40
521961	174	483872	7259648	0
521423	175	487245	7264830	0
521268	176	488814	7264883	0
521428	177	489321	7264903	0
521382	178	492848	7265033	0
521606	179	484782	7264669	4
521257	180	491341	7264979	75
521849	181	487747	7264850	0
521478	182	490303	7264880	0
521810	183	484291	7264661	1
521347	184	489790	7264845	0
521613	185	490860	7264939	100
521975	186	493775	7265337	95
521778	187	492353	7265021	99
521520	188	485277	7264701	0
521755	189	483781	7264648	98
521667	190	485783	7264743	0
521486	191	486763	7264814	0
521842	192	491839	7265031	89
521573	193	493325	7265153	21
521982	194	486274	7264780	93
521302	195	488307	7264868	0
521469	196	492694	7257785	91
521366	197	494724	7265663	100
521553	198	496204	7265813	99
521453	199	496701	7265792	100
521527	200	493656	7257565	70
521692	201	493198	7257686	63
521636	202	498177	7265806	8

521661	203	491229	7258032	0
521656	204	492201	7257863	97
521818	205	497708	7265807	100
521335	206	494236	7265495	0
521331	207	495225	7265747	0
521754	208	497209	7265790	79
521889	209	494143	7257443	100
521986	210	488277	7258709	100
521614	211	495741	7265817	90
521637	212	499995	7256119	0
521447	213	499187	7265785	0
521477	214	499043	7256342	0
521433	215	498571	7256467	50
521536	216	498676	7265799	0
521787	217	502674	7265771	0
521838	218	500200	7265735	100
521680	219	501165	7265665	100
522012	220	497572	7256712	100
521715	221	501671	7265686	0
521727	222	496567	7256901	0
521277	223	499692	7265776	90
521931	224	503180	7265805	95
521472	225	499554	7256353	100
521776	226	498133	7256592	100
521467	227	495089	7257176	100
521414	228	497077	7256808	78
521797	229	496074	7256986	19
521591	230	502175	7265737	93
521960	231	495577	7257061	64
521956	232	500704	7265700	96
521322	233	483466	7262401	0
521962	234	506927	7254775	19
521906	235	503686	7265836	58
521749	236	502968	7255477	73
521771	237	503961	7255346	0
521320	238	483936	7262597	98
521360	239	503454	7255423	0
521764	240	485776	7263489	1
521934	241	500470	7255984	1
521276	242	500959	7255885	4
521596	243	505953	7255006	78
521748	244	502461	7255529	0
521844	245	504474	7255263	90
521468	246	484409	7262797	92
521628	247	485331	7263228	0
521643	248	483008	7262180	0
521408	249	505473	7255091	100
521439	250	504981	7255170	98
521738	251	484870	7262992	0
521946	252	501458	7255777	2
521963	253	504199	7265861	81
521380	254	501971	7255595	89

522007	255	506434	7254902	100
521512	256	496181	7264986	0
521473	257	496848	7266643	13
521292	258	488216	7264907	0
521352	259	487544	7264524	0
521774	260	495682	7263507	0
521270	261	489589	7265518	0
521687	262	488677	7265134	0
521401	263	495940	7264237	0
521697	264	495577	7263251	0
521930	265	497137	7267306	90
521413	266	497040	7267088	0
521726	267	488446	7265022	1
521856	268	485995	7263621	0
521798	269	496752	7266417	0
521969	270	496257	7265223	0
521772	271	496369	7265498	0
521519	272	486886	7264135	0
521604	273	489861	7266287	0
521325	274	489674	7266122	4
521621	275	486440	7263873	100
521421	276	496947	7266872	2
521338	277	496552	7265939	24
521886	278	487325	7264393	17
521601	279	496105	7264740	12
521456	280	487107	7264266	0
521266	281	490082	7266154	99
521777	282	488900	7265244	3
521444	283	487985	7264782	1
521646	284	495362	7262805	7
521559	285	489842	7265628	0
521287	286	487766	7264653	11
521724	287	489146	7265322	37
521911	288	495787	7263740	1
521734	289	497235	7267530	100
521968	290	490240	7265950	98
521970	291	496463	7265720	4
521295	292	486207	7263736	78
521504	293	486652	7264016	4
521275	294	496016	7264471	9
521386	295	489771	7265874	77
521852	296	496657	7266185	100
521830	297	495866	7264000	100
521940	298	489341	7265473	87
521739	299	498972	7270251	0
521314	300	497751	7268666	1
521707	301	491650	7266531	0
521283	302	498242	7269234	0
521558	303	499557	7271544	0
521555	304	491179	7266355	96
521651	305	497332	7267761	0
521511	306	493140	7267106	0

522005	307	498869	7270017	0
521265	308	492141	7266711	97
521364	309	492405	7266781	100
521575	310	499057	7270483	0
521807	311	490052	7265821	37
521594	312	498593	7269603	0
521543	313	497546	7268217	0
521598	314	491413	7266444	66
521474	315	497910	7268854	100
521535	316	490451	7266015	0
521443	317	499620	7271782	20
521394	318	499478	7271304	0
521339	319	493399	7267175	0
521343	320	499228	7270881	0
521732	321	499706	7272000	100
521670	322	498736	7269803	100
521602	323	492634	7266894	36
521792	324	492896	7266990	1
521618	325	497639	7268444	0
521381	326	498087	7269030	12
521873	327	490941	7266256	0
521664	328	499351	7271095	0
521665	329	498411	7269408	0
521898	330	490679	7266129	0
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521802	332	491906	7266625	41
521488	333	494096	7267526	0
521279	334	495669	7268752	0
521642	335	500966	7274640	2
521669	336	494880	7268192	2
521362	337	500018	7272727	0
521722	338	500617	7273977	0
521286	339	496480	7269173	0
521705	340	499809	7272279	0
521255	341	500344	7273403	0
521991	342	494297	7267698	0
521831	343	495891	7268869	98
521760	344	495012	7268302	0
521332	345	500131	7272959	0
521682	346	501110	7274838	0
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521298	351	500217	7273185	0
521515	352	501544	7275550	0
521743	353	500728	7274205	0
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521957	355	495210	7268469	89
521843	356	494689	7268030	100
521742	357	501409	7275281	63
521773	358	500831	7274429	100

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521815	360	493642	7267271	96
521655	361	496125	7268980	57
521936	362	500424	7273634	0
521528	363	499610	7271709	0
521671	364	501911	7276337	0
521379	365	499407	7271169	0
521631	366	502268	7276991	88
521685	367	497357	7269687	100
521820	368	502513	7277438	9
521905	369	497979	7270154	92
521306	370	499391	7270740	0
521864	371	502246	7277918	2
521262	372	496715	7269266	83
521884	373	498969	7270490	46
521350	374	502142	7276761	0
521871	375	499524	7271461	9
521733	376	497153	7269534	0
521616	377	499217	7270557	11
521928	378	496948	7269384	99
521349	379	501786	7276099	62
521341	380	501703	7275831	0
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521996	382	497572	7269847	0
521526	383	502483	7277833	0
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521539	385	502025	7276540	0
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521455	397	497781	7279197	0
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521593	404	498276	7279064	1
521300	405	499773	7278735	3
521649	406	501779	7278077	6
521415	407	499019	7278902	96
521896	408	498026	7279132	22
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521327	412	500765	7278409	0
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521493	415	495017	7243814	0
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521571	422	493838	7243307	0
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521784	424	493599	7243203	0
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521588	426	494311	7243506	85
521533	501	371548	7427402	90
521385	502	372009	7427690	100
521617	503	372445	7427965	92
521546	504	372893	7428245	100
521634	505	373326	7428526	66
521763	506	373780	7428812	95
521953	507	374204	7429076	96
521806	508	374612	7429329	0
521768	509	374817	7429466	75
521438	510	375034	7429595	54
521259	511	375250	7429743	0
521376	512	375463	7429873	36
521976	513	375689	7430012	6
521945	514	375901	7430150	70
521789	515	376111	7430280	7
521299	516	376299	7430396	3
521346	517	376501	7430530	0
521548	518	376710	7430659	0
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521902	1002	484880	7303779	0
521572	1003	484869	7303793	0
521662	1004	484929	7303760	2
521918	1005	484851	7303889	12
521758	1006	484956	7303781	0
521460	1007	484858	7303818	0
521324	1008	484978	7303815	0
521746	1009	484849	7303871	0
521836	1010	484945	7303764	2
521939	1011	484893	7303768	2
521709	1012	484852	7303851	0
521904	1013	484969	7303798	19
521291	1014	484910	7303759	1
521629	1015	484863	7303803	5
521293	2001	628260	7436359	0
521659	2002	628462	7436359	0
521922	2003	628267	7436340	49

[illegible]

[illegible]

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BLK2	#N/A	#N/A	#N/A	#N/A
BLK3	#N/A	#N/A	#N/A	#N/A
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521674	#N/A	#N/A	#N/A	#N/A

Probability Value M10 Cluster 13	Probability Value M11 Cluster 7	Probability Value Model 14 Clusters & 13	Survey Area	Analytical Sequence
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0	0	0	EL 437	298
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	0	0	0	Losh Lake	65
	10	0	0	Losh Lake	113
	0	0	0	Losh Lake	127
	0	0	0	Losh Lake	140
	0	0	0	Losh Lake	164
	0	0	0	Losh Lake	177
	0	99	100	Losh Lake	181
	0	0	0	Losh Lake	224
	17	0	0	Losh Lake	258
	0	0	0	Losh Lake	331
	0	100	100	Losh Lake	359
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#N/A	#N/A	#N/A	#N/A	147
#N/A	#N/A	#N/A	#N/A	198
#N/A	#N/A	#N/A	#N/A	239
#N/A	#N/A	#N/A	#N/A	289
#N/A	#N/A	#N/A	#N/A	479
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#N/A	#N/A	#N/A	#N/A	392
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#N/A	#N/A	#N/A	#N/A	41
#N/A	#N/A	#N/A	#N/A	43
#N/A	#N/A	#N/A	#N/A	67
#N/A	#N/A	#N/A	#N/A	92
#N/A	#N/A	#N/A	#N/A	94
#N/A	#N/A	#N/A	#N/A	119
#N/A	#N/A	#N/A	#N/A	144
#N/A	#N/A	#N/A	#N/A	146
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#N/A	#N/A	#N/A	#N/A	195
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#N/A	#N/A	#N/A	#N/A	236
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#N/A	#N/A	#N/A	#N/A	262
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#N/A	#N/A	#N/A	#N/A	440
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#N/A	#N/A	#N/A	#N/A	481
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#N/A	#N/A	#N/A	#N/A	128
#N/A	#N/A	#N/A	#N/A	209
#N/A	#N/A	#N/A	#N/A	231
#N/A	#N/A	#N/A	#N/A	310
#N/A	#N/A	#N/A	#N/A	336
#N/A	#N/A	#N/A	#N/A	387
#N/A	#N/A	#N/A	#N/A	400
#N/A	#N/A	#N/A	#N/A	418

Analytical Class	Ethene/Ethane ng	Ethane ng	Propene ng	Propane ng	1-Butene ng	Butane ng
Grid Sample	6.672008537	171.9133665	59.68780724	18.59068161	114.8533823	312.5146235
Grid Sample	6.785344683	62.29942022	3.361792791	2.624464	15.09567145	30.1228531
Grid Sample	2.766755124	46.7180622	3.414250461	2.592770317	14.79683497	18.11266624
Grid Sample	2.193459133	52.2280977	2.985642784	3.123847048	15.23042958	36.8296777
Grid Sample	1.860679092	61.99006371	5.491636822	2.326887388	11.62673003	28.13881147
Grid Sample	7.410987209	107.0727249	37.56485127	18.78457502	52.11062149	154.5779238
Grid Sample	5.834523107	43.12532537	6.90655774	1.663941658	7.911958087	20.72269131
Grid Sample	1.737893394	69.87238511	3.047827683	2.481613245	7.847144592	29.1103437
Grid Sample	6.724566612	173.0812871	30.72203087	20.44444598	53.63293843	151.1158096
Grid Sample	7.265329966	45.23939899	15.45554387	4.717844673	7.696059579	17.90410921
Grid Sample	7.570775146	118.2676396	53.4818574	17.17144453	75.20088132	198.7795941
Grid Sample	8.138030481	371.5788073	39.17052972	14.58494588	56.33541442	142.4303535
Grid Sample	1.706230259	39.81757009	1.916654716	1.13609502	15.11342606	18.98503756
Grid Sample	5.02532972	139.2837065	66.99443215	18.34025917	86.4505557	244.9962075
Grid Sample	11.6761991	275.1868721	133.2101191	20.34053392	77.68291765	206.495539
Grid Sample	11.18655915	154.3614902	69.19969016	15.33018093	82.83329073	207.451738
Grid Sample	3.660716585	59.55604566	4.757933325	3.113173481	28.67773205	27.65051396
Grid Sample	6.489346931	46.24662781	3.834607134	3.209235583	13.26092	35.73074913
Grid Sample	2.284217326	39.77317554	3.547074683	2.906817855	9.26371304	23.52849509
Grid Sample	1.838401737	49.95448205	1.686758326	1.77878873	5.158859158	10.98970266
Grid Sample	2.739526052	45.27839713	13.7255315	8.207020012	62.84278992	59.90476408
Grid Sample	3.889726272	47.5421856	1.574443413	2.483380084	8.303682743	14.15147595
Grid Sample	2.121729148	49.14390415	33.00413142	11.72551958	184.7975278	166.7557016
Grid Sample	3.412710409	72.28176982	4.018062786	4.016848011	28.07442393	28.64166223
Grid Sample	2.946783871	56.95309812	13.804145	8.188936383	88.63685111	100.6217802
Grid Sample	2.14533717	43.63265011	2.22837469	2.100601189	28.49599058	38.21941678
Grid Sample	5.353369487	191.3715065	21.34940814	11.562165	38.51453439	98.7374589
Grid Sample	7.418052556	454.608973	54.82940395	15.80351628	50.47933289	123.0433638
Grid Sample	5.618107744	334.0893219	31.2794238	15.85330223	80.57558188	159.7467963
Grid Sample	0.465420126	36.89891038	12.683213	5.603806692	176.0569341	142.9307713
Grid Sample	0.310318859	45.20750371	2.890145778	1.827916713	26.93522465	44.86455769
Grid Sample	4.317101581	98.38250104	46.98044095	13.98577268	46.47377571	134.1961334
Grid Sample	5.521644794	64.96630669	28.82695624	16.36849045	33.21108474	88.69965765
Grid Sample	2.729872499	51.00976685	2.228326742	2.758957042	8.754876278	8.39947736
Grid Sample	5.211447873	116.0228068	27.83260251	11.55910646	64.83441483	160.941479
Grid Sample	3.179658036	57.42413617	2.94181215	2.231577783	7.807336888	14.94046715
Grid Sample	5.444095564	152.4883789	59.82496871	17.175302	52.74722999	146.9076951
Grid Sample	0.9462402	54.48715389	2.333485972	3.42802028	13.9631547	34.86189427
Grid Sample	1.427045428	50.58684141	9.774499829	4.911766403	87.90565993	85.62353649
Grid Sample	4.001679878	73.23684882	27.90315237	13.04678825	38.41043615	97.98570623
Grid Sample	1.318476506	59.18632555	2.173750433	1.763233516	19.57314902	24.32683767
Grid Sample	4.870825824	63.44011702	2.223433915	3.82118675	11.75789918	26.62311942
Grid Sample	7.003643357	476.8088848	37.90596326	15.54787889	51.41733257	139.9547936
Grid Sample	2.450607346	48.57707062	2.726615705	3.412033353	11.47682245	27.73241524
Grid Sample	3.630463854	54.09245195	2.798498818	2.522569447	12.53801038	25.27848701
Grid Sample	2.607361153	1441.62198	8.804669248	6.304535778	73.96258381	63.93899595
Grid Sample	1.650263248	47.49364868	3.813342247	2.739845545	6.355161242	33.70691896
Grid Sample	3.009746917	66.9229659	8.681889774	4.845991978	25.77255018	39.2536346
Grid Sample	4.074092796	58.830994	3.670631348	3.010416505	18.30534688	32.48711776
Grid Sample	3.660788019	42.70462311	3.184426362	2.494940405	26.19056921	74.74731764

Grid Sample	2.598004307	44.43896866	1.559502037	2.384113044	4.646711231	10.0343603
Grid Sample	2.192758223	64.35655376	1.603398719	2.849686157	6.590698263	17.92377626
Grid Sample	1.098750298	27.09903106	2.22260905	1.766016878	5.27990162	14.88100278
Grid Sample	0.374944387	31.65810535	1.275667744	1.500211701	7.916401346	20.90855399
Grid Sample	2.388655886	48.19026386	3.649973039	3.19581598	30.47814138	32.84040739
Grid Sample	2.311106655	41.1180105	2.373419857	4.856667077	27.07312096	52.23765243
Grid Sample	5.257977411	118.2079216	25.0651843	13.02317425	52.26772149	111.1216089
Grid Sample	6.312646945	52.41951835	26.20330001	11.83853875	21.42614328	52.58501711
Grid Sample	3.464073834	1088.627805	25.84943013	12.31378812	27.16386265	59.27477541
Grid Sample	3.600211123	54.19602719	11.34763179	6.816901185	161.8341342	159.6629371
Grid Sample	3.615337489	54.97284146	1.422804761	2.622189405	13.07945292	31.83266288
Grid Sample	1.129517276	36.19234597	57.38446616	15.88810676	611.3029991	451.2144494
Grid Sample	1.458730227	47.03254788	6.687250398	5.704836489	70.4520903	66.85239162
Grid Sample	4.184392459	71.42235301	18.91390748	9.495521113	249.4208719	207.3859159
Grid Sample	3.020461019	68.02476822	4.263958825	3.32783953	16.49061583	20.11496
Grid Sample	4.788458143	61.8363102	16.18402206	13.7240736	54.7034122	120.2285643
Grid Sample	2.254190369	45.30081517	1.807559509	2.768737304	5.697749303	14.10017967
Grid Sample	1.722191803	44.83452115	2.610068323	1.479452489	12.52745179	26.79240759
Grid Sample	5.579703055	55.16452666	36.47901674	14.47460496	202.4441564	288.7518948
Grid Sample	1.436814695	38.88602019	1.737625732	2.257821399	5.770738604	5.814072615
Grid Sample	16.16687522	112.5041189	162.8581355	23.29985794	373.0114926	784.6940093
Grid Sample	2.667833115	59.23331726	9.348538392	7.060640098	53.64120726	55.21595971
Grid Sample	2.109387743	50.6338004	3.809623053	2.528534839	6.562226291	7.387518171
Grid Sample	2.712021529	43.32796165	10.97205623	7.263124216	58.50263364	44.24332504
Grid Sample	2.367061335	44.3089649	4.752969106	3.622497029	17.56424186	34.97417166
Grid Sample	7.56955238	47.44536331	37.237903	16.28097749	131.1163465	247.839936
Grid Sample	1.871262889	55.40516755	49.80787457	12.02889945	314.2967606	336.2133776
Grid Sample	0.943064399	64.79706266	15.47372813	7.456307933	137.7973035	163.1806981
Grid Sample	6.099722676	48.48865565	42.25322763	12.71384989	121.5816986	217.3633205
Grid Sample	0.839931233	52.08038815	2.682982017	2.514656359	10.67198941	26.86463614
Grid Sample	2.732709516	48.93566279	19.53240467	10.38045471	216.5708795	181.5324427
Grid Sample	5.679380053	139.4952951	57.61648739	15.28500242	101.7095835	236.1263317
Grid Sample	7.089752277	95.77327076	31.52794352	11.92154915	162.9563267	294.3716994
Grid Sample	4.743252911	46.6753616	10.29937745	3.832600883	53.09551786	68.46904063
Grid Sample	2.770922314	61.05804654	3.001780356	2.496442985	8.941427566	16.89479628
Grid Sample	4.319965728	50.63050757	5.711040607	4.17019922	20.63803433	29.7830065
Grid Sample	2.334572056	44.15763049	2.821774138	2.358938932	7.741864231	17.26060338
Grid Sample	8.748920841	76.34467679	29.75853794	18.48247456	60.09571707	132.2428224
Grid Sample	0.013041432	34.27850786	2.935659645	2.079157223	7.441418367	12.13508027
Grid Sample	3.94227352	91.09650381	38.94724328	12.52202362	126.8480091	198.3358118
Grid Sample	2.714388492	52.19524374	17.71502394	10.80703406	43.1729882	106.7940198
Grid Sample	2.947010345	49.31806506	3.133494796	2.219770785	11.05422153	25.20465455
Grid Sample	3.629443572	54.36967459	5.078274983	3.376856621	25.59123567	39.33249025
Grid Sample	8.022731771	179.6021484	81.3442237	14.37083427	62.45549474	130.9373813
Grid Sample	6.434936602	103.2506716	30.62678664	13.10520344	111.4323823	197.6070697
Grid Sample	4.140192531	82.31889281	17.46604259	9.97717576	114.5609601	166.215496
Grid Sample	4.272792315	68.14611053	2.159262991	2.505273477	6.145268661	41.22349414
Grid Sample	1.611967303	55.70686465	2.318319736	2.642754298	12.92486133	21.59643529
Grid Sample	2.191227323	56.10150525	1.86198478	2.135892439	18.44164257	55.60629301
Grid Sample	4.697156541	68.31459327	50.73587729	11.41468729	127.207474	409.4572732
Grid Sample	17.7430996	105.0369396	189.726504	23.54421388	105.7181138	395.2820859
Grid Sample	2.647207256	50.53960519	16.76454057	11.50804001	110.9506588	113.5615601

Grid Sample	1.810757112	45.92989729	9.371498402	5.734707691	170.6083668	172.829773
Grid Sample	3.709075367	70.82943084	1.492561557	2.769080332	14.95566478	36.88910446
Grid Sample	0.323243965	38.60323721	1.694142473	1.099683352	5.007991074	9.011079405
Grid Sample	3.179658036	52.79545209	7.945527908	4.423743806	91.31578151	77.89373184
Grid Sample	2.015226214	58.06647664	14.93303847	9.477001119	175.8641648	159.4587156
Grid Sample	8.663308624	754.6525875	93.50174954	18.71807407	221.4826985	467.902211
Grid Sample	2.068111344	46.765062	1.770400463	1.417357303	33.94477918	44.25298853
Grid Sample	6.867506068	543.1747174	30.77838082	10.57755458	73.32553772	219.7535954
Grid Sample	4.069128453	59.11585091	4.171714146	2.938838555	27.32954998	31.50194759
Grid Sample	2.655421116	44.67012593	2.403378097	2.904811919	5.373123961	37.3502862
Grid Sample	2.282956399	48.81397353	7.971722226	4.528883826	27.87779575	31.81042137
Grid Sample	2.691466089	44.55607507	6.554944088	3.149196073	7.106471278	34.50351127
Grid Sample	5.310734097	49.70737187	19.59896031	11.51084629	71.26916535	233.932642
Grid Sample	1.001997636	53.39088514	54.61299663	17.61796993	316.1790593	282.4552023
Grid Sample	1.060930874	58.26884617	6.100248657	3.918961142	60.98223091	69.49457584
Grid Sample	1.536411648	57.0154098	3.035268005	2.528490642	7.495341859	26.24000068
Grid Sample	3.274191709	55.81071744	13.70366758	4.309831745	75.68536668	92.47943263
Grid Sample	5.188268297	47.27401816	39.70429371	13.43627506	64.6417002	192.9379078
Grid Sample	2.784975515	39.90532854	25.00912305	7.902284689	162.0123361	158.5262774
Grid Sample	1.318477092	41.90537046	2.862331747	2.3558859	6.222983768	19.96164477
Grid Sample	0.387869493	34.06546701	1.824362706	1.372770862	6.92513252	15.63259056
Grid Sample	3.903498203	69.02547126	75.4089085	12.82788164	93.3318792	146.1929821
Grid Sample	1.072900087	37.19716757	1.565186514	1.423747198	2.838443214	3.11374249
Grid Sample	0.439569915	34.29981195	2.837046265	1.75145221	6.152998353	12.48231839
Grid Sample	1.460653253	32.89374231	3.460333399	1.321794527	5.073387281	13.62454905
Grid Sample	1.770406238	58.49772406	3.259892363	2.07022348	6.660009707	11.22943607
Grid Sample	2.636692306	56.82346935	2.363592327	2.52076685	4.986975645	7.006882493
Grid Sample	6.704470363	109.2327154	49.0933566	10.6344315	234.0854822	330.7434537
Grid Sample	3.163996869	44.7739089	3.148352803	2.79264647	6.372017454	12.22909863
Grid Sample	7.971730749	261.9420572	99.01776347	16.59744629	130.2282888	291.7271965
Grid Sample	1.345787112	48.7569481	1.997330141	2.08813576	6.161508557	15.47898628
Grid Sample	2.114746527	54.4404822	2.095001136	2.595464889	3.501053918	30.27837379
Grid Sample	1.562056947	31.13609155	5.61005952	2.153098637	15.4270878	23.93526457
Grid Sample	2.902594544	61.35094094	1.905041048	2.664782483	4.569390673	41.22928205
Grid Sample	1.723929795	57.24957073	3.839528198	3.330967157	4.477352215	31.36281248
Grid Sample	2.917327854	53.85198593	1.930135918	1.551347065	7.498907446	8.881577316
Grid Sample	4.369748703	48.20869327	5.221698566	2.900579984	18.63361847	25.19230782
Grid Sample	3.299376927	49.97419068	7.518026306	4.509060684	25.16906611	28.26036205
Grid Sample	2.351989558	43.84563991	2.512827326	2.427928512	13.77338325	23.01378884
Grid Sample	2.745613156	47.74031062	2.012990425	2.170190462	10.4559787	23.41692921
Grid Sample	3.709990969	43.13060271	1.90575269	2.281017824	11.45899834	26.67494244
Grid Sample	7.852879329	217.7822422	71.1304371	12.98487903	228.3174021	723.6811556
Grid Sample	16.55959045	147.0497752	13.40047289	6.749585598	36.55990416	140.5910911
Grid Sample	2.280028274	85.69044726	1.557563802	1.806551959	7.478271423	15.82018875
Grid Sample	2.740238703	43.07709516	23.46114976	9.944077525	46.41755792	80.73288498
Grid Sample	0.478345231	34.36372421	2.744754255	1.904381216	6.328535541	14.48236428
Grid Sample	0.413719704	33.08547908	2.338922267	1.518417535	7.031831595	18.53842537
Grid Sample	1.93989699	46.70183858	3.562642598	1.813879839	7.024353394	16.38974952
Grid Sample	1.337263204	56.87420434	9.288340017	4.9871034	31.06299973	31.61385958
Grid Sample	1.506753956	49.26395564	4.411139966	3.208233888	25.42638857	21.046939
Grid Sample	3.948117529	49.63871679	5.67010524	3.191446304	10.55173482	15.62035628
Grid Sample	1.860679092	50.33784964	2.139157162	2.597284415	15.05981107	35.76599779

Grid Sample	4.58342488	714.7988838	58.63680514	12.14656891	64.26105976	186.1802909
Grid Sample	1.261682176	37.73203246	1.397037622	1.265272661	5.488497316	25.22117598
Grid Sample	1.718251829	48.71893115	1.56823622	2.920279271	6.036520755	14.67093924
Grid Sample	4.974314353	35.26093068	44.05072924	12.63068254	73.14260889	116.7117916
Grid Sample	3.316245614	37.1617782	1.733947683	2.013892473	7.70394044	34.19494056
Grid Sample	3.550860156	55.69638911	19.39943866	13.65213816	37.83006904	88.47894435
Grid Sample	3.978126128	59.33665853	19.40816731	11.64732889	41.11876028	96.58588708
Grid Sample	2.018595982	64.65145189	4.580372403	2.986928124	16.67132548	38.48098602
Grid Sample	2.740528141	59.87056471	6.308645186	4.144150328	23.6168618	24.44528674
Grid Sample	4.302258934	108.8200542	23.7735836	12.43549104	40.66305767	90.06483367
Grid Sample	4.520860013	47.27401816	46.64456228	10.43905146	45.78397144	93.3479497
Grid Sample	3.739512738	44.40854154	5.025643747	2.618654669	12.29619257	30.24212393
Grid Sample	8.216981156	47.69466995	67.60522375	14.63697993	63.61512332	150.9117169
Grid Sample	1.938684781	39.00772865	2.604615557	1.69337507	11.12017669	13.85620622
Grid Sample	4.290585775	48.95739522	11.8725005	8.611064326	26.27930821	61.2125139
Grid Sample	1.643467084	34.12417671	6.721454032	2.252666638	9.649260487	23.9318964
Grid Sample	2.922743774	42.5981282	6.444271751	4.149618685	10.69082333	19.2887342
Grid Sample	2.784975515	57.91818055	2.981765219	2.538755874	12.31770505	27.17393437
Grid Sample	5.683560282	56.53589954	27.8826398	14.41899271	29.90526606	65.20729424
Grid Sample	2.618199724	59.63933375	2.365925058	1.59555436	7.525804552	22.76895032
Grid Sample	3.294542623	44.29950177	2.859275433	1.602666639	17.12836091	44.09275098
Grid Sample	3.839980445	64.9772406	1.994245553	1.939314494	10.65607718	23.50371126
Grid Sample	4.287239459	69.72992843	1.536729749	2.11237994	4.853578448	31.23128795
Grid Sample	5.066757703	197.1908494	40.26588117	12.49289429	38.76964357	107.8962724
Grid Sample	0.956574137	35.76979385	1.895162056	2.319474232	8.705745041	22.83435489
Grid Sample	0.762697554	28.78205381	2.917959808	1.857046048	5.972871957	13.34241808
Grid Sample	0.374944387	33.1919995	1.168204445	1.642217206	3.930674606	7.568442077
Grid Sample	0.814397976	37.04803897	2.470406774	2.006333887	5.448554997	11.23386028
Grid Sample	2.295596809	79.674714	24.19728787	12.59418665	27.6151186	66.47709628
Grid Sample	1.628673427	47.0389668	1.453609378	1.346052909	9.909012413	20.37791572
Grid Sample	5.583684179	56.88373143	45.58720767	13.02710992	45.06234121	96.88968916
Grid Sample	6.281627253	105.4261747	88.4003255	15.69155587	60.32116867	134.3436274
Grid Sample	2.580195388	49.89814303	1.220311836	1.53423223	8.764362398	20.48191233
Grid Sample	1.337263204	56.26538444	2.468492627	2.470274921	17.01031731	42.38361024
Grid Sample	5.423873567	61.33888358	1.184459834	2.101295437	5.394183295	8.467522518
Grid Sample	3.339643023	67.84447343	8.023809219	3.223064252	14.18331686	19.71856569
Grid Sample	5.072279597	63.02699367	20.12277117	6.326836007	16.66034104	40.23140049
Grid Sample	1.467277693	69.3014673	2.836925823	2.054465226	13.93349582	15.14708703
Grid Sample	5.823786849	71.23415354	4.347703836	4.305055115	12.30624536	27.09897623
Grid Sample	6.912885165	309.8973916	42.79277557	12.37427167	34.84465412	80.69558874
Grid Sample	5.445627712	63.98388701	2.398184241	3.19500416	5.800058746	12.46663863
Grid Sample	4.129633915	39.54013126	1.337288644	1.896386857	4.941048812	7.548414911
Grid Sample	4.509314966	60.89842912	1.480052764	2.349025563	8.306956545	22.85214169
Grid Sample	6.28611129	61.05840671	2.092311999	3.995049335	12.07592506	36.18418768
Grid Sample	2.319001372	36.34441377	1.74931166	3.028550731	10.97559916	16.3614745
Grid Sample	4.061175047	41.09653258	5.799914376	2.304678681	6.743869304	13.61195338
Grid Sample	2.222881445	82.99121203	14.90965514	11.82947373	36.4428939	84.55560173
Grid Sample	3.536126847	191.0416062	41.66295264	11.60979736	48.74785052	115.0879292
Grid Sample	3.68345994	52.32307278	2.086160544	1.882875589	5.563854987	17.77374748
Grid Sample	4.007592746	48.82841413	1.564623681	1.204180404	8.548370351	14.98397138
Grid Sample	6.913455749	57.09849203	47.15427587	11.09240519	52.07141194	112.037837
Grid Sample	6.711974002	65.80135577	50.42293199	15.63072323	54.11517455	110.3449348

Grid Sample	5.263823952	53.19362715	24.64838006	10.48885869	36.78223049	58.72995351
Grid Sample	2.833450389	50.07804347	1.392043505	1.464959688	6.684266628	11.76648135
Grid Sample	1.926782531	56.89078645	2.847919479	2.06850618	7.073729706	7.768125297
Grid Sample	5.024564378	106.6985842	22.90258486	11.52016144	42.21450559	91.74595937
Grid Sample	2.871228216	47.5024943	3.973057274	1.672978139	22.32249517	28.4298288
Grid Sample	2.312627199	49.10953079	1.932107727	2.018125013	15.57863933	38.83493414
Grid Sample	6.218089348	73.17030694	20.3632134	10.55702542	35.38799646	72.43926131
Grid Sample	0.762697554	41.92667455	1.144183237	0.95403668	3.942147625	11.46801756
Grid Sample	0.749772448	37.58064111	0.973506233	0.673666836	4.959804395	13.34812923
Grid Sample	1.96473237	37.53803294	3.027951655	2.101004224	4.396479171	8.820326884
Grid Sample	0.374944387	37.72976971	1.729542148	1.773299211	12.20616308	14.70624149
Grid Sample	2.621303577	78.52341694	21.40857158	8.233468599	25.65117423	55.09682742
Grid Sample	1.349496198	67.99727242	2.656950439	1.84981817	10.90883863	28.73097036
Grid Sample	5.924900793	93.02036152	32.5128538	9.225256458	43.71181063	83.83906017
Grid Sample	1.706222658	47.43839639	1.782398363	1.857689503	11.03254162	31.39577161
Grid Sample	0.822161431	47.01547094	1.321827559	1.771104848	4.111550679	6.258858193
Grid Sample	3.163996869	42.61767177	1.762075413	2.38482704	17.64925826	20.7229377
Grid Sample	5.254382815	68.16273991	17.97913074	8.591450358	31.63496574	57.67489129
Grid Sample	20.18840133	54.81943719	119.4641962	15.61759653	65.4117687	133.3357812
Grid Sample	3.860792184	54.69259971	7.17307193	3.798601062	14.88051414	12.19353751
Grid Sample	2.975673811	41.42539948	3.17358199	2.944122258	23.91677337	18.82897885
Grid Sample	4.628803976	74.44498587	13.26740665	7.951857129	14.34775002	34.18602878
Grid Sample	5.475880443	98.29318401	9.109340381	6.297454264	16.76895483	36.17861436
Grid Sample	7.366676129	272.014749	83.44639399	15.57634173	44.64880768	71.51435155
Grid Sample	1.981690016	59.34889519	2.343652224	3.084710636	4.494284747	7.690446245
Grid Sample	5.642270464	388.0190135	45.69660546	13.53769046	33.57931572	75.53373463
Grid Sample	3.700725321	62.17693163	21.37240219	12.61830866	28.68540923	82.31516224
Grid Sample	6.235888394	49.44125321	38.88404336	13.55253669	68.72683106	153.8111161
Grid Sample	1.105487294	41.11554105	1.682368618	2.607838771	12.48369374	38.03826682
Grid Sample	4.169309965	56.26529583	20.33094406	12.06767094	43.50127097	96.0819785
Grid Sample	5.510390301	91.17688174	26.49692253	11.68173279	38.46423646	86.76572085
Grid Sample	6.158655913	64.94267344	13.98221999	8.794932536	24.68428343	52.27841604
Grid Sample	5.746123251	67.61220435	11.21632889	7.13728992	19.42237744	40.86271396
Grid Sample	7.530493596	207.7681187	47.0946174	11.85709273	58.99081139	125.4680767
Grid Sample	3.208120882	45.64083969	4.59124004	2.894434382	8.605904935	21.14280403
Grid Sample	5.973326652	57.26399758	84.69964577	13.62664677	53.34201509	114.5510864
Grid Sample	4.047246817	55.84427705	3.890977738	2.347085134	21.43140547	26.77158803
Grid Sample	6.61080458	66.87476895	34.97288472	12.44889153	43.05379386	82.36876075
Grid Sample	10.40705182	72.12400626	20.83072955	9.976189331	33.33888647	68.53181212
Grid Sample	2.890918635	77.42644529	12.76045078	8.85244931	25.70679439	52.49058069
Grid Sample	6.599895823	74.99689965	49.68172613	13.07951357	82.2815891	138.6668671
Grid Sample	1.059974981	36.11065921	1.389452414	2.177468727	9.588020189	11.73187284
Grid Sample	0.542970759	30.95507053	2.27191574	1.507494034	15.49891949	25.16907437
Grid Sample	3.086598959	50.58684141	1.830319024	2.436232421	16.91672298	42.86633021
Grid Sample	1.458065121	54.34617874	1.775742715	1.558578878	17.07103289	43.05443383
Grid Sample	7.026099865	69.33653634	59.44959019	14.84932333	57.20946461	116.8123703
Grid Sample	2.822931576	46.12262833	2.611692036	1.672713196	11.65488243	14.95802349
Grid Sample	13.2957774	275.0854021	176.4024859	21.96404365	54.00057801	134.6238839
Grid Sample	4.877736699	246.0903546	81.95636342	14.00962278	33.27987032	80.67898388
Grid Sample	6.120668883	51.31872279	95.3145536	15.97104004	40.83866233	93.27288822
Grid Sample	2.297710801	51.09041533	2.109972613	1.677940029	9.736838562	14.44310754
Grid Sample	3.353615898	49.77304936	2.892285719	2.69157315	6.516547441	8.224666435

Grid Sample	3.046212635	47.65805825	1.626916649	2.224814939	8.235280897	19.34194078
Grid Sample	4.129633915	79.18355292	5.19171073	3.93503813	7.368171026	16.6176858
Grid Sample	2.753134656	89.07498798	13.79041826	8.417936216	12.17310375	25.69214031
Grid Sample	6.00242112	65.27114991	7.234795822	3.723612011	6.663990448	16.43134601
Grid Sample	0.733022578	38.05517654	8.088049478	3.517319038	19.74397418	23.97008384
Grid Sample	1.429263608	61.10825632	3.536207596	2.789887586	6.790660287	22.28446431
Grid Sample	1.119864111	55.74492603	4.982981403	3.324711902	26.17261264	38.8948221
Grid Sample	2.24159776	56.93232757	1.138756672	2.633964786	4.043449766	12.28547326
Grid Sample	1.536411648	59.75712344	1.077004923	1.757943422	3.458336604	7.561587699
Grid Sample	1.788263831	58.38626662	1.567878993	2.721859906	10.8645649	56.97526657
Grid Sample	2.716091386	47.67945639	1.102378471	1.567083426	6.710117142	13.07905683
Grid Sample	5.343528897	59.97201081	34.78865922	10.18584381	74.11769806	167.4790008
Grid Sample	2.765294335	39.79883363	4.478549539	3.729505663	24.51976616	39.8019072
Grid Sample	2.568482537	46.0668193	3.122628345	2.190809506	9.033465586	8.735665673
Grid Sample	8.069372307	68.88715547	25.39081668	9.30437968	48.154817	112.3211281
Grid Sample	2.046931271	49.3225206	4.557614648	2.175345223	26.13947705	34.98301714
Grid Sample	3.163637546	53.0423193	1.933410118	1.472274864	8.498937345	26.68033293
Grid Sample	4.079973086	198.6731866	52.49515665	11.82064025	56.0649077	130.2548771
Grid Sample	0.915220508	48.87164375	2.20702867	2.507074411	12.66746154	16.5757146
Grid Sample	1.752752196	40.34264718	1.391046292	1.133526939	5.935213301	13.70901547
Grid Sample	2.683342961	51.97309705	4.009378002	1.566450211	14.48347243	29.39560315
Grid Sample	1.938870349	44.14897623	4.426021533	3.900300213	24.8757988	31.21644616
Grid Sample	9.435154707	184.4219726	52.8153255	10.75871933	66.43648532	126.3368262
Grid Sample	3.051003034	54.94627467	61.73716245	12.22686927	53.49826594	87.55808473
Grid Sample	4.293935218	80.38987283	38.98176434	9.702272804	49.05112977	70.22533205
Grid Sample	6.246001146	102.1073295	30.29543466	7.127479654	15.32031157	28.67822613
Grid Sample	2.822646626	59.78400729	2.518323967	1.907964474	29.5256833	27.10333212
Grid Sample	8.970711887	485.7197176	49.54825103	13.03861467	40.45778146	90.64624707
Grid Sample	12.26761855	969.5939649	181.4267949	18.17713419	66.50967359	146.4042602
Grid Sample	8.894439043	102.9799634	63.88179365	12.65890012	50.61946916	108.7794341
Grid Sample	322.009	2933.011	1678.012	847.014	7775.016	13092.019
Grid Sample	3.180450489	92.57399189	4.558630453	3.055458598	4.608676275	8.613630417
Grid Sample	1.249667185	51.57020244	5.342287355	2.799633929	17.01621842	39.49707388
Grid Sample	2.919750915	43.47259199	34.57554532	16.22529503	98.9189394	108.1738681
Grid Sample	2.367061335	33.3220662	3.150725821	1.488002522	3.936450986	13.1208817
Grid Sample	4.582191812	84.06622214	27.73966414	10.66525383	51.63696016	74.77894427
Grid Sample	5.333590589	72.63577615	27.1352051	7.794091711	58.04822446	109.0492022
Grid Sample	3.803081292	51.78122922	29.19079683	10.25447171	47.6265727	89.94184462
Grid Sample	1.372707729	56.2261286	2.306806698	2.411297148	9.101877055	27.38743178
Grid Sample	2.53122777	60.00637013	2.278547423	2.3761391	11.26137634	35.17054517
Grid Sample	3.299376927	165.146934	31.6535403	10.62070137	50.32801354	83.51269992
Grid Sample	6.002848422	71.5951687	36.56807858	10.15491524	67.5689389	151.3693611
Grid Sample	8.640126523	54.02350985	63.13213789	11.93846255	64.97758074	147.6405476
Grid Sample	1.269524666	29.75788572	3.455247083	2.631541571	10.92208255	30.50336641
Grid Sample	4.71268096	243.4867767	75.86763066	11.87516772	61.66690305	106.9667316
Grid Sample	2.959965498	46.31531615	37.02175382	9.070197492	41.92701835	94.81202013
Grid Sample	0.090592065	36.85630221	3.225178416	1.485647033	19.06932295	23.64533866
Grid Sample	4.472202847	46.33662024	35.352912	10.33732354	47.62107759	100.5574404
Grid Sample	2.233557425	53.07740239	1.389715163	1.719941189	7.655577551	14.63323124
Grid Sample	2.481714962	35.71396309	1.336469983	1.853753837	8.293221824	18.45173468
Grid Sample	6.158333494	50.6338004	62.20589417	12.14530539	41.85668145	96.40490082
Grid Sample	6.516147305	86.90931922	33.22287062	6.583425167	27.74238208	57.39567066

Grid Sample	3.239326092	48.24925581	2.281265509	2.186743317	4.579767995	8.381912417
Grid Sample	7.62931583	186.4954749	69.13435658	12.62977536	49.91831892	115.6493992
Grid Sample	10.3163174	429.5526833	54.65224983	13.5021119	53.78725321	116.902175
Grid Sample	3.404416412	70.23045519	1.514615785	2.891900211	7.461910749	10.53494268
Grid Sample	6.620368101	54.17436355	52.3000873	14.4682039	79.37551707	208.6994822
Grid Sample	4.277444883	99.85172957	20.71723833	12.15119464	65.76695509	137.687396
Grid Sample	5.407257136	122.653078	55.4083949	13.49262916	38.51586779	107.7247338
Grid Sample	4.935791236	60.86557169	2.401483041	1.876620334	4.957748069	17.59818066
Grid Sample	7.248920806	56.23029529	31.7624809	10.39627786	35.52349549	75.26512932
Grid Sample	2.824337875	41.70052831	2.262908876	2.324833292	12.67535013	32.65156896
Grid Sample	1.434803042	41.13842338	24.33476316	8.090723621	12.13388307	28.7910878
Grid Sample	2.985815709	45.25011188	15.12199775	9.022862323	20.38757281	40.40643141
Grid Sample	2.749686141	55.3267871	4.177438031	1.899327719	21.78027271	38.6417903
Grid Sample	3.276990704	41.07025454	1.678420743	1.017660952	5.351319332	10.95680083
Grid Sample	1.732741626	58.42162158	6.983189108	2.380943045	7.648559857	16.0301871
Grid Sample	8.788554485	403.2445733	49.36636231	12.07896965	28.92823552	67.58723699
Grid Sample	3.508933842	96.89338682	2.02442035	2.523023847	6.903902055	16.89552629
Grid Sample	2.110029971	49.79654926	1.400957886	1.468462217	4.945234883	10.43517197
Grid Sample	0.480944817	44.80686026	2.691559805	3.191880313	14.14297039	32.77018204
Grid Sample	2.770922314	71.14864122	2.519263688	4.238951247	16.22782417	57.00062824
Grid Sample	2.16588466	58.62456154	2.683604636	2.42755098	10.63564229	18.81053975
Grid Sample	4.802407475	58.16794662	1.966564607	2.241119241	12.44396573	23.4756317
Grid Sample	0.80147287	23.73298556	2.155602522	0.870289843	3.313426194	7.628980302
Grid Sample	0.516752742	41.21058343	1.791013882	3.359552053	7.024061738	28.69829964
Grid Sample	7.570756431	69.12670475	10.6666503	4.750179731	17.17105717	30.77883183
Grid Sample	2.54899512	61.22959863	2.005420528	2.442720925	4.207971362	30.12323354
Grid Sample	1.869800652	49.91584934	6.217981954	4.920255453	27.42753713	41.75934636
Grid Sample	2.258926417	56.87356704	2.378137278	2.004612062	13.33388549	25.61139186
Grid Sample	7.880972556	159.6615115	36.67775353	12.09675893	19.89137211	44.13029563
Grid Sample	4.164042683	499.0206617	66.03646194	13.12378952	33.88563427	69.38563399
Grid Sample	3.688106581	75.08310875	5.542442168	5.390515578	52.42391647	118.9341763
Grid Sample	4.854494793	57.3693933	2.021746503	1.951168291	18.01506983	38.17139602
Grid Sample	7.103649095	68.16174342	63.11552081	13.6332025	66.58411072	132.1189887
Grid Sample	10.13195002	57.50839173	62.20589417	13.74939514	53.75411022	98.64920254
Losh Lake	1.782863033	52.46868355	2.528048472	2.386423629	5.050908947	29.7045742
Losh Lake	2.932061163	52.10465661	2.15817191	3.984641321	3.400951224	16.98659074
Losh Lake	5.011971769	86.19804359	39.62893564	13.52124034	55.61148435	127.5970027
Losh Lake	7.341604459	70.53704296	29.32267344	11.85709273	58.95498813	127.1133163
Losh Lake	1.586782085	47.8971349	2.389491243	1.839978867	4.448528109	10.29865219
Losh Lake	2.371670738	42.84154512	1.657651828	2.018125013	8.446354	14.97447439
Losh Lake	3.57222271	44.04341616	2.222921923	1.765541724	11.82112518	24.80301791
Losh Lake	5.432094206	72.17328388	24.6619636	10.58276041	67.34485051	155.3246474
Losh Lake	10.98521591	55.52506668	28.64766623	13.56789003	34.77870817	77.26083492
Losh Lake	1.228001354	34.87502226	17.52791138	8.389299299	27.74292518	67.48300929
Losh Lake	4.156778339	41.54093595	5.775786837	4.833053081	16.54178814	36.43444051
Losh Lake	6.064171965	126.457245	31.35856655	11.01506297	54.95698019	129.0328858
Losh Lake	1.341521813	47.14106042	2.543179431	2.146454071	3.5372329	7.378400289
Losh Lake	6.413715103	135.99457	16.52693401	7.798869337	17.31434231	40.38979158
Losh Lake	5.05234221	58.49439949	4.983497576	4.283707981	12.34470849	12.79424375
Tweed Lake C12	3.664680349	39.59486304	2.955383831	3.037831142	7.725916318	27.55286595
Tweed Lake C12	6.031633549	130.4553747	18.64200405	11.27574255	66.92755611	126.8502005
Tweed Lake C12	1.851226876	46.73398366	1.594044988	1.50597741	15.17897074	26.98406561

Tweed Lake C12	1.964560359	52.07201703	2.4041442	1.722785374	5.22469863	16.39415923
Tweed Lake C12	2.791939125	69.04677535	29.66747134	8.203599792	17.24626025	43.45047613
Tweed Lake C12	4.885806225	64.61552557	45.53411137	9.71104285	23.67688731	54.55524264
Tweed Lake C12	0.323243965	30.35855614	2.617062571	1.380053196	6.17594439	14.45723521
Tweed Lake C12	1.752752196	36.53631813	2.860613251	1.716005523	35.32933902	94.69640098
Tweed Lake C12	3.107499951	50.93821035	1.775353933	1.794459866	14.33801711	25.85822666
Tweed Lake C12	3.860792184	60.57785871	16.3485286	7.562191798	18.14621233	31.81142135
Tweed Lake C12	3.902738433	54.89516003	4.31176228	2.639978683	8.248878112	17.81095635
Tweed Lake C12	6.262451449	758.4817397	19.56213648	9.844636321	18.88541329	31.46669893
Tweed Lake C12	6.232198718	385.3260574	22.81670638	10.63092241	51.06327452	146.1170874
Tweed Lake M47	6.482788719	262.2695446	8.846500297	6.417935577	14.34342595	32.77602894
Tweed Lake M47	5.30412397	85.74074607	18.91063423	7.234246375	25.56313846	46.1490117
Tweed Lake M47	4.684563932	60.21407571	3.675811568	2.10073439	22.2719752	49.28394766
Tweed Lake M47	3.677155201	58.15779048	4.280769378	1.974751385	17.44685834	31.5243622
Tweed Lake M47	8.305546466	343.2940912	29.30408522	8.861070234	33.89024634	87.41193959
Tweed Lake M47	2.145683848	126.780847	58.20213791	9.874895356	21.88135986	53.44270997
Tweed Lake M47	0.791141739	48.21375972	2.694222064	2.731407379	15.84675589	35.87012966
Tweed Lake M47	4.10561216	56.82346935	1.345129915	1.876023752	10.60751281	20.0130324
Tweed Lake M47	5.649861237	119.6841236	21.16199176	8.401134624	20.20100357	48.85705092
Tweed Lake M47	2.543189114	1225.21461	42.00461774	10.22443742	20.22227709	55.00093336
Tweed Lake M47	6.427648529	532.0615228	23.14609941	9.553259555	18.53355747	43.89551404
Tweed Lake M47	1.565087822	42.08858165	1.581724896	2.609805288	12.20416925	32.52928425
Tweed Lake M47	4.553172149	102.9799634	52.44989998	12.1394532	23.42899397	54.53175822
Tweed Lake M47	4.129633915	67.47955123	5.950201507	3.742913926	11.3772128	26.60653182
Tweed Lake M47	1.343929919	60.04521531	1.440552168	1.7365516	8.078826311	19.60506923
Duplicate	2.254328932	65.79206964	14.83544557	7.259267395	52.76723732	60.17217049
Duplicate	4.734934368	63.99431724	5.062609315	1.834119193	13.44016507	24.16579831
Duplicate	2.253583659	51.45241864	14.5652582	6.469261133	124.0114266	141.4600016
Duplicate	3.556352777	58.18515315	3.192620281	1.891899303	8.150649143	31.33198324
Duplicate	5.428660658	55.79563419	51.13990276	10.63589922	57.17810228	101.9977932
Duplicate	3.412305727	59.18632555	3.940159268	2.247320447	8.906635615	24.63783565
Duplicate	3.19538155	59.08534977	3.336580769	2.526503813	7.654696863	20.74034035
Duplicate	5.706358155	31.98869109	2.885438126	3.243189839	0.926954635	2.221936406
Duplicate	5.337764233	44.29757237	4.733849635	5.015143224	2.649176476	6.387138111
Instrument Blank	1.417877057	32.10552379	4.53128887	2.044827176	0.517828583	0.559532352
Instrument Blank	1.513996984	14.52268418	0.138288959	1.002327685	0.233515672	0.231751012
Instrument Blank	1.117502285	10.0556925	0.238154808	0.662045953	0.332407119	0.207737727
Instrument Blank	0.014865909	32.30159096	3.43910136	0.688121854	0.590410994	0.370445031
Instrument Blank	1.782863033	23.88043436	0.259690443	0.738163895	0.198686338	0.288449537
Instrument Blank	0.412665262	32.76269175	2.883740977	0.247126365	0.441129105	0.430253509
Instrument Blank	1.196411201	19.12991226	0.362149934	0.673903606	0.458368649	0.173014074
Instrument Blank	2.052708623	24.26024006	2.885598513	0.837974497	0.579616589	0.22950299
Instrument Blank	1.737893394	11.75636422	0.255392673	0.354551336	0.391314865	0.145652256
Instrument Blank	1.889481832	14.27048424	0.27991957	0.422726485	0.481356207	0.367448825
Instrument Blank	0.76765458	19.23010396	1.99935851	0.636649066	0.472392671	0.286632806
Instrument Blank	0.009929155	16.12653824	0.314453756	0.646958588	0.496594218	0.340196911
Instrument Blank	2.978188686	24.04737677	0.193350012	0.727856369	0.388057011	0.365822049
Instrument Blank	1.080065066	13.77944299	0.340855107	0.56901548	0.570411379	0.218712526
Instrument Blank	3.283633866	28.09070821	2.64176792	1.119031693	0.625722657	0.371328822
Instrument Blank	0.013041432	15.87177802	0.271834104	0.524378996	0.354534639	0.196485376
Instrument Blank	0.013041432	17.85305797	0.175749272	0.112927147	0.291433035	0.211334375
Instrument Blank	0.426644809	14.95570234	0.121385485	0.415143992	0.117043149	0.038857545

Instrument Blank	0.651553124	21.78091911	0.291533332	0.472335032	0.294612059	0.12291819
Instrument Blank	1.690712812	14.89663263	0.212996692	0.739960328	0.432343222	0.18687342
Instrument Blank	1.349496198	17.99808592	0.294195591	0.125996415	0.284409751	0.168063058
Instrument Blank	0.019001797	15.01783648	0.322683947	0.159298153	0.466167031	0.30558723
Instrument Blank	0.54630636	38.76181243	2.722112342	1.192440708	0.525104981	0.655930103
Instrument Blank	1.205437063	14.05387165	0.260274908	0.147646169	0.448753546	0.441246312
Instrument Blank	0.014098631	17.88368335	0.370585928	0.592864696	0.451104415	0.373906464
Instrument Blank	1.425359066	15.55719313	0.274553454	0.316898163	0.296621439	0.203376541
Instrument Blank	2.057321843	17.29734928	0.525505215	1.939081125	0.679531101	0.589916261
Instrument Blank	0.620317122	21.46625254	0.542856311	1.231067856	0.691365911	0.853244428
Instrument Blank	0.665696219	14.63028695	0.469733834	0.914418705	0.288982382	0.257127514
Instrument Blank	4.718349828	21.99721188	1.338097497	6.490184738	1.315246842	1.60056697
Instrument Blank	0.448066226	27.35646114	0.767807645	1.047518393	0.907182902	0.52222362
Inventory Blank	2.547286198	38.16922739	3.594086291	3.560627623	1.788308986	2.970466159
Inventory Blank	3.550860156	40.8198214	3.091046424	3.071374068	1.597221931	1.492336321
Inventory Blank	2.581598206	33.85623779	4.728731216	4.529569545	1.445804519	1.947119078
Inventory Blank	2.952265544	29.84916706	2.946322238	4.657362643	1.32661762	1.658625686
Inventory Blank	1.987887731	22.10546632	3.513409922	2.610922527	0.873959069	1.191584274
Inventory Blank	1.783780892	28.73944564	3.164493259	3.699476452	1.403168559	2.934412276
Inventory Blank	1.021199665	23.43472836	2.94324529	1.871610715	0.768710618	0.628248567
Inventory Blank	2.326616501	40.06069688	4.177100318	1.692391526	0.981992586	0.881602781
Inventory Blank	3.912530922	45.16706871	4.850218398	2.732457081	0.616180509	1.470039986
Inventory Blank	5.617221745	36.19010643	2.801902214	6.095160399	1.048732843	1.946064693
Inventory Blank	3.796853874	49.06905299	5.072731785	4.884985581	1.364963827	2.725569899
Inventory Blank	2.042195478	33.14436042	3.485106482	2.575937282	0.782099451	0.952770034
Inventory Blank	8.839322814	57.56556267	3.494583152	4.391765424	1.833627279	3.749590314
Inventory Blank	2.13527618	68.92397154	4.430253516	5.905550501	0.851489136	2.332964635
Inventory Blank	3.643313396	72.20351213	3.590865854	3.807131188	1.19850414	2.76539674
Method Blank	2.162806491	48.6809142	0.647495045	0.924990928	0.726599417	0.854895756
Method Blank	2.114746527	24.73023539	3.851981615	0.974486453	0.789780064	1.08782462
Method Blank	1.261682176	25.22445575	1.020620193	0.767223943	0.712864494	1.164667132
Method Blank	1.547130083	31.622074	0.333883972	0.534868103	0.359192429	0.862417995
Method Blank	0.471598499	26.54996527	0.894699761	0.806971702	0.654388947	1.032196901
Method Blank	0.736798068	44.53289621	0.71794459	0.675611344	0.535412403	0.610643596
Method Blank	4.495674795	43.76379388	1.933156287	1.341906519	0.675145268	1.024761004
Method Blank	2.077893841	43.36915329	2.661617593	1.233502538	0.649426008	0.886186633
Method Blank	1.120855547	25.69340855	2.483688826	1.406362941	0.840483367	0.815575488
Method Blank	1.751713573	36.7713357	1.282319755	0.698506198	0.411440629	0.868320198
Method Blank	1.968206551	30.79240762	0.571642561	0.742321667	0.216035551	0.568549151
Method Blank	1.751713573	24.15929658	3.895103556	1.350583464	0.482252561	0.345835238
Method Blank	1.178243874	34.49264965	0.508360893	0.410174591	0.495222611	0.409089556
Method Blank	1.243696413	36.9399292	0.852539449	0.865360422	0.356080178	0.475170838
Method Blank	1.472780298	24.31338542	0.711701251	0.656733583	0.445961004	0.302887494
Method Blank	0.749772448	21.6238811	0.910292528	0.848442842	0.32470479	0.671653332
Method Blank	1.021199665	19.7065134	0.637209321	0.393296991	0.579405807	1.181088208
Method Blank	0.879023504	25.41600831	0.823057614	0.564431831	0.530071827	0.847556854
Method Blank	0.511964509	37.96956549	0.942455654	0.861965977	0.637664678	1.358131945
Method Blank	0.449925125	36.93574772	0.806680445	1.275210919	0.757541801	1.202632954
Method Blank	1.876830965	28.52423045	1.537470536	1.12171994	0.701429105	2.240964923
Method Blank	0.565138665	43.20112417	1.229606799	0.687521414	0.634943886	1.310518104
Method Blank	2.448369248	34.77911561	1.987810238	0.955517039	0.542518466	0.778418401
Method Blank	1.977561602	24.15013492	1.716928449	1.324496523	0.614851403	0.371441153

Method Blank	2.906483879	63.73199071	0.741158299	1.06984389	0.632952947	1.25482575
Method Blank	1.03411855	37.05960278	0.849618505	0.633748627	0.474938931	0.862698118
Method Blank	4.522919418	53.44510672	1.539304979	2.686230806	0.89847508	2.153297662
Method Blank	1.512772686	54.01477052	1.34844292	2.696904373	1.043451498	1.97083405
Method Blank	2.692629194	63.36243559	1.571528443	1.99956467	0.721939169	2.032000829
Method Blank	4.195762674	61.27171017	1.551647594	3.591373315	0.85791534	4.223623482
Method Blank	1.209550365	42.71430976	0.852980804	1.604312904	0.719751959	1.472479486
Trip Blank	4.042340866	57.0154098	3.88723281	3.720934439	2.448855654	3.433483668
Trip Blank	6.334195728	37.96880824	5.955393072	7.520933469	3.595199808	7.47155849
Trip Blank	4.898129819	33.80102716	3.553466079	5.419589497	2.211600698	3.263171632
Trip Blank	5.672651526	44.61871215	3.957646707	3.546689461	1.438107048	1.744875489
Trip Blank	5.10287895	36.20737612	4.676273877	5.478502323	3.345102263	6.311527206
Trip Blank	3.474345111	44.05499279	2.014014894	3.077745996	1.393910786	1.58511031
Trip Blank	7.401265679	46.01691619	3.866720685	4.983219405	3.327336572	5.409266307
Trip Blank	3.647046286	35.08561107	3.347592626	4.636966863	1.601340518	3.879345113
Trip Blank	4.326276666	52.87544292	4.192783334	7.73127008	2.526747642	4.231931421

2-Methylbutane ng	1-Pentene ng	Pentane ng	Furan ng	Carbon Disulfide ng	Cyclopentane ng
178.9590887	18.51871814	123.5774892	39.20015242	5.251262603	33.35828257
67.20514128	4.102202768	42.99046177	10.36356446	1.144783259	4.794920104
16.84779011	5.100958633	28.4010855	8.179951812	1.992108672	2.243678751
37.19722624	1.704949758	30.8787011	9.028003199	2.36509469	9.692721401
53.2814603	2.72523596	111.4149203	14.72445525	1.595117397	14.83671269
74.64728024	6.35966017	49.61072955	15.74283614	2.777317837	15.60663274
7.729965756	1.301095291	12.28335388	4.270240606	1.29878077	2.134618463
41.69848964	1.636963091	25.24914665	6.039967584	1.066970046	5.003286296
118.0939332	9.609256834	52.19627495	12.77911357	2.543415309	20.15468097
10.64630052	0.972073897	12.6187354	4.701777804	0.972954998	1.243047481
90.79659826	17.07522041	41.11044894	15.45181625	3.773373808	10.67320654
113.2521862	9.117112697	53.4629067	11.42709761	2.612578446	10.82783223
22.93377307	4.097920564	14.49201982	6.341647386	1.957748686	2.100597965
103.2377579	10.4000844	37.07674544	17.6374288	3.465048013	15.73219696
81.44775843	6.113908522	71.43751449	22.2762947	4.988919916	16.09046078
138.1173616	13.38056183	96.89331162	25.62098831	4.294776367	33.14295693
12.44411005	5.65481996	8.232067535	3.39243507	1.804538624	3.021346076
35.62985732	3.820298839	18.37597163	5.67938743	1.950976023	6.913291748
36.51663415	1.329404673	19.07884429	3.30491443	1.691167734	11.01360162
11.09444865	1.126061861	3.919416879	1.254733647	0.662650109	1.808542624
18.17206799	8.89550023	19.43835745	3.961660307	1.522000171	1.253301422
8.025028108	1.535121424	5.370194119	1.853584466	0.52507565	1.120467716
59.49839039	41.14609015	53.38439303	16.01749103	1.138673005	5.037016585
15.15868839	4.014796832	11.88118131	3.573386878	1.122156786	1.558242182
61.62430806	15.42960351	35.14840207	9.437509366	1.470073194	6.073063153
30.15152208	5.097518471	20.26711527	4.240644858	1.035648993	2.681936456
67.67898144	6.660069783	30.25256408	8.789704026	2.211818677	9.965985004
57.01522266	5.803920276	26.25775258	9.988273165	2.355981577	7.322146505
55.56605973	10.06208159	20.61920142	9.121736779	3.545796822	7.445646245
56.10686487	28.69928075	45.51735749	16.4135425	4.449966088	2.838331733
50.5333917	2.060705927	13.63715143	5.876707515	3.372566474	6.070356563
47.77717043	6.055397714	19.66379623	17.67320517	3.691610391	8.067413036
46.37951063	3.976472469	53.27180987	11.93462102	2.439461356	7.197777193
4.783238456	1.357431234	3.528589051	1.494819349	0.747301845	0.700003894
79.20078723	14.25033605	37.56420574	13.1982112	4.31522076	11.81030443
19.64486891	1.640218079	12.33009313	3.824135203	1.878136847	1.705883259
53.5717484	7.050147937	23.61096383	9.105746258	3.087323395	8.855922662
46.00942461	1.688074314	20.92374611	4.533312949	1.346047988	3.752899616
43.35597767	10.64371614	21.75515049	5.99084953	1.577594349	3.86696841
52.06580088	3.708912608	29.92072919	8.03806153	2.348246123	6.866977691
21.06935095	2.495104462	10.96174009	3.383347931	1.349556267	1.55448286
59.2170262	2.798350933	29.99820029	8.510489853	2.28479031	13.15305551
66.22730722	7.690407253	32.76385142	12.03604952	5.704812152	18.60215153
50.51165119	1.513853808	16.09354546	5.022982635	1.338458299	11.42102806
48.88041974	2.211769451	30.11470907	8.185141389	1.932080875	10.93918584
31.08872327	8.931532408	11.19448843	2.50640447	1.353885903	4.006321533
43.08797646	1.302731837	17.01748568	6.769753529	0.852446834	6.473316272
31.42777778	2.903434387	9.819892421	3.093921946	0.761443453	4.230417847
45.51369197	3.365807028	21.41173986	4.096133902	0.965376936	3.92520082
180.4730675	2.563604345	51.39009832	6.999711176	0.555101693	15.39086106

11.19921221	1.17544492	3.814137281	1.323709427	0.673641426	1.371509868
18.66319003	0.746467409	6.324262044	2.317867632	1.058487288	1.920287929
16.54327716	1.47909131	8.754469527	3.451992025	1.665430961	3.106229553
30.48385064	0.869334051	14.29869896	4.368356073	1.525118453	3.609552729
20.34314442	3.852481314	8.274522371	2.517445822	1.063046881	2.061570498
37.37175655	3.637128256	17.53131932	4.625388512	0.940257145	3.90948496
74.64570331	7.839775818	27.18897195	8.545456658	3.724660598	8.748075802
32.01132821	2.37981444	17.63029603	4.997608876	2.624230674	4.56589902
40.50165595	5.018387361	16.08590554	6.331986981	2.812279867	13.08050012
133.4052137	26.57234882	64.20403317	16.32456085	4.545909723	26.59440708
45.11982911	1.068517159	22.05841318	5.626113997	1.744703988	8.835079453
245.191304	144.8201355	220.4988944	31.37928349	4.469365212	11.60031273
27.87194667	10.95999206	19.99290964	7.187106208	3.365870401	2.641197191
83.14578272	32.74242446	58.33790243	15.81341784	3.964261991	6.046200874
9.017992431	2.276476937	6.041231492	2.287815379	0.652088514	1.461166743
104.3602358	3.922842601	35.08572002	8.417682859	2.154775914	14.36303163
7.81000496	0.798170569	3.460309316	1.783384465	1.229331036	1.366724927
27.65372399	1.90440301	12.17870162	2.880541743	0.787212428	2.430841321
228.7727259	50.34872545	110.7364822	29.34790548	9.716022596	25.38811084
4.461917781	1.142310461	2.521431884	1.247203627	1.007966062	0.560220723
801.209743	52.00297226	522.9291819	146.5805907	31.22923883	135.5926922
21.55581623	6.066919833	17.24923569	4.991731712	1.579933201	1.524410177
5.799184437	2.333840082	5.580748367	2.313107206	0.970308996	0.838742631
16.01139541	4.677012941	12.79224234	3.724828534	1.047799863	1.800817617
29.94435495	2.335391833	13.89829046	3.115651474	0.991724846	3.918459189
205.4072704	30.18826538	142.7431582	35.52789365	8.046264534	27.39967061
161.4998553	75.10770076	139.0319901	37.61242342	2.763006528	8.685376716
109.0883008	25.30104804	59.17485564	14.68564498	1.618996299	14.08590327
178.1823627	29.90956267	69.45241981	21.65788974	5.356931206	29.42828568
29.4815383	2.68234044	11.54041964	3.174689823	1.009871228	3.010701674
79.54060291	30.97361863	41.6042913	13.08543839	2.222692367	6.590953008
226.4035632	11.73108568	71.52846143	22.70936506	8.470791174	42.09983862
257.8631747	17.75021263	75.29115844	23.35264717	7.77415855	49.72539844
83.65136838	23.98067205	102.3599113	16.52164736	1.814320172	5.452378224
15.28991639	0.888277202	5.571661968	1.765528612	0.549111955	1.192844335
63.43703155	2.115576495	14.52700793	3.453716045	1.188313085	7.099746565
25.78740661	0.584030738	7.302939613	2.639545887	0.726285984	2.828964883
110.0348442	10.13556484	60.73754498	14.47680696	4.347662039	13.07743523
14.11780244	1.738629016	3.942731055	2.181516797	0.987253839	2.496356108
89.66189019	21.61984262	35.16493675	25.5231202	8.156554839	13.44769424
81.70822308	5.134507905	26.80780012	11.56140838	4.4098768	12.05848169
27.84727858	1.024612872	10.09074503	3.134548003	1.03381123	2.643321347
73.78915202	3.06067815	32.01903548	6.65888713	1.41972183	8.824812991
88.9299479	11.6032253	34.54455036	11.145415	5.246495194	13.98295064
178.971762	18.94741201	64.35956899	23.8547535	6.965552828	31.80890257
434.1127328	20.55342698	313.1661887	33.14276035	5.082332973	215.7042369
148.3068578	1.510573228	40.17011859	8.485195792	0.664610909	18.78218606
29.76547573	1.986334483	12.13123931	2.860848715	0.627875544	6.534291098
105.1796411	2.004405417	44.75704955	8.273475059	1.559651672	29.60248781
1413.350968	29.11833606	705.1855625	52.83041756	11.71161252	657.8754096
1283.238511	33.44331295	1611.96851	60.20352274	14.51253956	1141.647996
90.24633813	13.47879259	39.66169842	7.15636591	1.534651581	11.58703688

136.5587882	35.96662648	86.01899446	13.54520742	2.101796769	14.2658938
75.84146569	2.681526485	24.94442083	5.714191538	0.972191317	8.216766577
23.8039515	0.936563698	7.470393355	3.603367797	1.379794784	5.242308758
33.47305161	11.94236034	23.04432215	7.424877458	1.933099871	3.633645877
81.77446998	27.0944623	51.29995985	12.33089894	2.179603102	6.237681078
1334.513371	26.63255121	661.7397994	80.05378968	11.96372723	785.9408298
82.88744349	4.229656629	29.38253976	7.534260476	2.100214305	35.94359894
594.027388	9.458460217	219.6191106	16.9181791	8.318641	542.580453
35.33608969	4.028011828	15.82805823	5.287447175	2.2517238	9.538308643
47.14894454	1.70708073	28.07701792	5.391279513	0.824504803	4.462717597
20.07475266	4.492818487	11.10617982	2.942227203	1.02749384	3.228983851
56.61640937	1.477375596	24.60441147	4.685518133	1.006926669	8.065073699
859.7400715	9.188261676	562.8376328	22.81514059	4.776978554	375.9434875
110.547711	49.80178399	75.6742636	22.17037428	2.402540443	5.950844878
52.49640176	15.05299457	42.67544768	13.49956549	2.341717382	3.394112241
59.98045739	0.712333632	14.48651531	3.497471597	0.602281693	15.58886428
173.5587966	8.223818556	43.86157159	8.549167395	2.503424917	49.08285239
499.4136107	5.303856795	267.6398245	30.01987342	4.820468215	292.9817765
73.58723462	28.52532464	58.08975416	9.322815872	2.26150599	5.633258306
22.62074508	1.203918804	10.33118737	6.141615116	1.306297756	3.376156901
36.24435311	1.905921392	23.04247732	7.887842771	2.557417618	4.187968476
149.1135831	19.70301596	75.49805308	30.85100675	7.52681894	41.96359056
1.935304395	0.775525242	2.351824527	0.984026315	0.566316315	0.517565395
8.573860214	3.086348906	56.47102384	11.64250254	0.861974814	1.5769795
20.49254851	0.65044683	7.177751686	4.165620665	0.614757538	3.319330091
21.86745241	2.066183062	13.08680763	3.489541646	0.793498847	4.278443667
8.494554712	1.089469725	6.145778158	2.602691068	0.971400416	1.352603859
811.2421549	43.20084087	350.9665891	49.7921913	6.094529058	212.0402345
22.89708881	1.465128701	9.104820429	2.257000332	0.858984087	4.056600494
399.5951819	14.47846774	298.8278936	35.501094	12.06932794	368.2186823
13.51416721	1.006705272	7.202419537	1.391965026	0.666227008	2.034300035
41.7235357	1.731852853	16.76052854	2.835156566	0.512420337	5.259580245
25.7667212	2.375928033	9.417926868	3.186529219	0.86832182	6.455484371
63.07094174	1.171808126	26.30692889	5.399547857	1.001821117	7.486473727
47.55631591	1.556396527	26.99824486	5.56833019	0.807723995	7.18848624
6.224617709	0.759398437	4.892725218	2.049985727	0.685183415	1.468119784
30.64778741	3.499775211	22.99524552	7.27192609	1.515662241	4.887696
11.75860135	2.519427038	11.46047563	3.873052461	0.760643645	2.376440159
29.17303992	2.825192176	19.97295475	4.989915949	1.129345069	4.837233303
22.46065232	1.130103029	11.686433	2.774890876	0.455017248	2.869685403
46.14169961	1.503301669	22.58437974	4.035415013	0.84328811	4.976136994
3137.020955	36.76359741	1994.106191	113.0889685	10.1397844	1077.335535
141.1682429	18.63383894	125.8255527	17.78585382	3.639729605	49.16998343
11.08119245	0.560825499	4.819061893	1.630872598	0.496417955	1.156196038
78.20191587	6.449394712	30.78417965	21.17106676	4.408206413	23.20566937
11.55254792	1.016301186	5.737599958	3.095177706	1.745609537	1.513049338
48.129573	1.604169723	19.04658835	5.430689616	1.204404149	6.382904019
42.79679221	0.986163507	13.95979205	2.55563369	0.723647923	8.089392461
12.9868385	3.730821896	11.05966283	4.97184904	1.702652268	2.764024455
20.77841392	3.986739573	14.70156101	4.381821921	1.938399133	2.948516481
28.00102209	2.027320317	9.536583916	4.431267007	1.344756682	10.99313728
85.82398037	1.646790121	37.64194049	8.520002966	1.147932221	25.32003672

428.1672773	4.629548645	220.1481751	20.18878735	9.381493091	376.2593081
31.79188935	1.801665197	21.41750937	3.18049707	0.630458015	2.883636027
21.63274809	1.017965327	8.038754074	1.672459934	0.487382042	2.650556753
94.78499935	12.97614438	119.7283746	29.50479333	6.534130346	43.29299238
40.91696285	1.394051184	23.72132531	3.577110837	1.004243994	5.303511417
116.7828908	2.265021112	47.10355695	10.27275414	2.561753751	17.05981839
85.23595495	2.405764101	35.24794884	11.80253584	3.20755155	23.72480518
44.99086361	2.359940802	22.28254815	5.00521095	1.786259718	10.67493984
19.54659456	2.405764101	8.738285553	4.481985716	0.943681426	2.734566603
68.94745301	8.213867225	30.90279749	9.84466077	2.229910284	12.58503963
62.88571183	3.060049149	39.06485097	12.4288378	9.437758846	17.13006823
42.67787277	1.555619235	23.11466911	3.978339257	1.073269388	3.629839673
131.3034495	21.75019981	84.06192654	22.05435253	4.014048506	40.79344613
11.03553883	1.08301722	6.819777386	1.844677495	0.95756893	2.520899759
60.9167802	6.381042763	28.82978771	5.991777618	2.413407204	7.249730941
27.6021313	1.808487472	30.16851822	5.299582283	0.792181159	3.186416348
22.54248901	0.917344926	11.64441007	2.842896031	0.925627086	2.051527393
37.30155807	2.335150972	27.30095346	7.745339134	0.885167416	4.07249979
51.31584939	1.686279578	31.29095151	7.645507886	1.689287925	12.11755107
30.21643765	1.718509077	21.73322802	9.974558201	1.28377323	2.020192191
50.20429993	2.039514879	33.64542961	6.988436411	1.029467404	9.788125067
23.54857148	1.592169444	14.90182061	7.245280289	0.988992302	2.050314079
41.01005495	1.017195195	23.62067762	5.585769599	1.350213491	2.437882371
67.11600014	5.253332396	33.32395462	23.82014277	6.446078552	27.35910033
50.89760666	1.68390721	26.31474325	6.036192704	1.119214412	5.062695447
20.98866834	1.624494965	15.49054867	6.041598981	0.948834938	2.121908019
3.82134724	0.941254138	3.000956957	1.808483644	0.890371393	0.821994736
6.813816056	0.930309777	4.627335202	2.614019002	0.721662306	0.751975987
62.61674385	8.890437708	35.90634582	10.02454284	1.765871945	22.03812729
37.97925624	1.416163887	12.23111642	2.292154549	0.919207476	4.341909388
93.48750418	9.201503237	54.0413538	14.54408168	3.912938194	16.86251501
124.2651611	10.97435922	68.56866064	23.09927288	5.089380813	40.14084489
25.09991667	1.63417524	20.13495175	4.61529891	1.107828	6.457260545
49.40280072	1.652958189	25.5040737	5.520248479	1.472362505	4.785513777
5.982340911	1.009642193	4.544414106	1.404537838	0.55556914	0.895335278
10.71417772	3.127135322	10.33836161	4.305803801	1.476354714	7.239983764
32.17690107	1.870937771	22.86925239	7.436636057	2.856953737	10.27076124
8.409973065	1.378891817	6.701693547	3.014421131	1.023662375	1.90744942
29.65597391	1.972484088	15.71345943	3.498981935	1.289645833	8.528114331
94.8559666	7.64221784	33.33684543	13.36027485	4.462456151	26.77858615
8.335012482	1.656760344	5.922901643	2.157633005	1.010942396	3.54783777
3.804422219	0.689648667	2.404718374	1.497422964	1.143208434	1.719069799
43.1774735	1.739557975	17.91696173	4.389064684	1.118103018	11.57375367
34.12471335	1.936553937	12.00625298	3.167608652	3.024395741	9.055214844
10.58430856	1.993086143	10.03608718	1.940890544	0.692159528	1.512007213
16.84156747	1.540431907	6.95048025	1.467366883	0.659967434	2.390630653
79.37968765	5.443167181	40.11815742	6.431825137	3.796013915	15.41012159
90.22197864	5.294268473	33.03758123	11.85163616	4.60737642	19.25499288
15.96520901	0.882139416	6.566631634	2.652998973	0.606471218	2.467371157
10.6858898	1.314187662	5.373881137	2.051520112	0.720961686	1.709489648
95.67550041	4.543371653	52.52405368	15.3708879	8.49078637	22.15711286
92.68302124	4.248213063	45.662665	13.59020842	2.926523262	27.7598425

39.72922364	3.004330435	25.28462785	9.007322775	4.913245924	10.39410039
13.97612235	1.317709923	9.159266227	3.135209204	0.379935115	4.582854926
3.059612018	1.156577428	2.816578933	1.525006141	0.462315322	1.238669011
89.64022011	6.10801336	40.16476823	9.580016999	3.508783366	14.81032964
9.197213634	3.701567308	19.21396311	6.807111475	3.778318606	5.461114527
40.05198247	1.43877667	21.80795607	3.379651011	0.508963474	3.106279603
64.77461036	5.832282235	26.39458896	6.872482621	2.714911722	6.685068574
20.41576806	1.322743295	13.17779269	5.490158669	1.100840155	1.804286741
12.78300385	1.083530832	5.056542983	2.746472803	1.013980031	1.912866539
8.032459606	1.394663382	5.432543188	2.230173295	1.511755357	1.220797172
12.56053742	1.760517738	8.312846645	4.552169511	0.887030619	1.484635933
47.65269965	5.57530578	28.63650636	8.043938694	2.614875266	5.50126313
34.25744777	1.594537127	23.37589414	5.56377564	0.69818595	3.133817161
79.75475247	26.26442636	49.68637849	17.24757695	8.804647411	9.760177101
85.02673257	1.794663201	38.323852	7.148650767	0.556685397	8.665116679
5.630479409	0.82013623	4.157091169	1.955197167	0.602293013	0.874218052
8.323773675	2.2352296	5.816400602	2.182794468	1.990787325	1.22923189
32.69596017	5.31328533	19.18163135	6.057788523	1.524750698	6.905474303
90.03631201	97.86156966	118.6322303	27.96480769	13.92219813	16.01802219
8.101015801	3.075766558	6.35465173	2.352924987	0.983406044	0.890807866
6.972375906	3.153246222	9.182478552	2.883225434	1.383957431	0.788941103
31.42952756	4.715957249	20.14843313	7.35750056	3.829468683	9.062047604
38.91056666	3.360006855	21.93617446	6.495612524	1.982467937	12.9465517
39.46160905	9.847298933	27.32995815	14.39339892	7.18178291	30.27612815
6.93186149	2.64879758	2.878393429	1.006546335	0.733813554	2.541364248
70.80533822	2.755146631	24.78968467	11.50521782	5.136383107	29.84823737
71.96427285	4.934212667	27.16795864	7.7785023	1.506798349	17.57983336
125.940312	10.57775254	78.37916387	19.96645844	3.377516694	28.46012029
82.32333388	2.743005846	34.54952	5.279684765	0.793206934	9.579478822
86.73765425	3.058287403	39.65583584	8.006215908	2.050487046	18.86726076
95.87410118	5.62157775	61.67465421	16.62664181	9.338158359	15.576834
73.40165774	6.47749151	50.54170173	8.698475286	3.754959103	14.14848064
39.53132668	2.904910749	19.35136841	5.947323248	1.540284102	7.454688395
146.9518994	9.576126789	115.8917913	29.34862252	11.19093762	36.54697147
40.44159627	1.87301247	26.94676019	4.640175148	1.03777845	3.20168049
83.48057877	15.05006349	53.66734095	12.71092988	3.810330522	18.00102934
12.65338403	2.383725921	8.281617181	3.307838697	0.932479897	1.329396893
59.84631194	14.94420598	29.8556569	9.588045568	2.681309751	8.857358728
79.68253427	5.241837827	30.67221311	8.77387541	5.902516879	7.521955028
67.52558797	5.188981449	37.40396793	11.12910884	5.239641633	6.926545709
111.2479638	13.71046079	40.81000385	19.23839323	5.235823227	16.44355621
9.412538974	1.258640609	4.529787979	3.168162453	2.019553005	2.147277131
43.81018052	1.116363915	8.536318465	4.054791974	1.473336456	6.554399215
81.38406199	2.249297435	23.73468472	4.027876876	0.697016524	9.100652074
77.93458097	1.394411052	27.45620907	5.747926767	0.954290258	7.909151672
98.75250153	13.58252404	45.50461243	20.70922633	14.0448456	11.10722586
18.75107626	1.812065469	18.22910514	5.708745676	0.637375795	1.573148662
92.75395807	17.50576695	58.27044585	14.34169688	4.874320745	21.08645958
64.67161543	1.76800375	26.58057596	7.228793265	3.01999702	14.54548154
58.90466158	2.993591157	67.79829418	13.12182486	4.438843896	11.42496303
20.65713463	2.495843015	12.94220285	3.033447063	0.753116282	1.757807205
8.072132383	1.181509486	6.118438742	2.344751868	0.61488795	1.641922518

15.19466677	1.445155886	15.87680384	5.246081103	1.23649534	3.203660626
18.41616882	1.831239255	7.915010845	2.920584666	0.943234781	8.371841178
21.09657039	4.229078002	13.38519374	10.25138953	2.16039725	10.4964119
15.72761338	2.648341234	10.29229611	10.42474973	3.326024336	5.027873957
13.7807269	2.846598358	10.94514646	2.783883304	2.178361196	1.873219071
26.25705452	2.201195803	17.34931735	5.31515669	0.884647278	2.497169905
21.31873551	3.682270282	18.39274359	5.790815994	0.830085414	2.477304073
7.40407449	0.739440033	4.134452159	1.590266645	0.490308596	1.409787978
5.287197409	0.870454305	2.149194415	0.997594715	0.635873622	0.937227651
95.62182365	1.362887258	43.81088416	8.534517078	1.350901827	9.369653063
9.619408285	0.985357763	5.921287101	1.729311606	0.466374349	2.050764186
179.3291329	11.9092656	99.28823516	16.79973987	6.01360795	27.38847665
26.85314768	3.360575271	20.1590563	5.046991704	1.24362589	1.83401337
3.999362579	1.259153026	3.353886134	1.278777449	1.269179365	0.811315858
138.2720215	11.02161089	45.58893277	5.297153527	5.294561547	19.13286546
44.81274293	4.025008362	32.24565166	6.885559665	1.543879225	3.737451874
26.00485258	1.66178516	12.78383147	3.516056792	0.770579491	1.83142836
101.3341443	8.286880822	45.0906027	17.0664416	4.672990213	16.75682385
8.467805568	1.522752774	6.745332177	2.119757749	1.126195889	0.996582758
11.39357996	1.139902893	6.285090468	2.397943494	1.434924369	1.042210276
50.12459496	2.036119661	21.31470412	4.972141167	1.163617523	4.023553754
34.92313709	3.343464994	17.93712384	15.28068618	1.417382978	3.846228629
124.0514394	11.8497515	60.03248188	19.89989713	12.10498271	14.23422198
58.01363009	3.284726863	23.34571346	10.13730118	2.7918901	11.48721494
58.07550728	12.38036981	46.12900001	25.06896907	6.71336458	7.537048234
20.87891825	4.238115871	26.37539034	10.75757902	3.353563989	5.34358749
21.59395969	3.569835693	17.16392989	15.45725283	1.978595468	5.461424872
99.30715665	4.228246755	53.68427257	16.66642546	8.055032929	24.26984226
52.33082094	23.75742239	70.97682246	28.18170487	19.58487317	21.81319275
130.4803098	4.684384874	54.40583547	21.97915521	14.64694108	30.21473513
5920.022	1409.025	2936.028	2.518913531	1.224678455	4.572912105
11.17463651	1.406894983	6.73270292	4.501881227	1.172396166	10.32028734
27.26497049	2.743005846	20.23313499	3.895306673	0.676063481	2.372325998
25.60127036	13.75759224	25.89787296	5.941713068	0.895148565	2.208804413
8.504683397	1.966062009	11.81784337	2.453623171	0.539247082	1.232556147
70.0481946	5.227170071	30.55068722	8.538899262	5.085016343	8.43705381
111.1272346	6.222190274	42.97409619	21.30651561	7.037615507	14.71565016
117.1260742	4.776787884	56.70745638	13.42106384	3.981469796	16.71870276
34.87818678	2.030005907	22.70970632	4.822659395	0.795835189	3.53120988
31.29526329	1.742376873	23.65756129	5.888137022	0.828627311	3.991304588
72.0443084	4.550901209	22.55764402	8.278802447	4.261402538	11.71432289
186.5289825	4.964980636	67.48688194	18.71481363	9.664915646	14.22925986
224.2307896	12.48127099	121.8605523	27.10980723	12.00731755	19.21910787
29.27444626	2.277601649	15.22036138	3.446441789	0.941952917	2.326281948
95.71631329	12.69200864	88.96450987	21.06622394	11.65532705	8.842297784
115.9798659	4.681098661	41.70946862	24.7770539	9.811908355	11.84233686
14.79504538	3.799295855	11.1559048	6.247037529	2.336926534	1.594230496
91.76449328	8.528823314	27.68572513	20.14117088	9.404333927	10.59722085
10.01099445	1.394411052	5.352234962	1.827858622	0.798756591	1.191536697
11.35866618	1.729404699	7.532197034	2.834812658	0.773029218	1.142798212
79.56669194	3.796562217	46.50657916	10.52823939	6.176385608	9.345749207
62.52571458	7.029577274	50.43233117	10.5209998	3.29394361	6.800211981

5.479898151	1.206863155	5.958327516	1.339381469	0.667985469	0.591998694
123.3955253	6.636311195	54.47241008	29.39014145	9.426623149	25.79230124
136.7881031	9.185940775	55.66069237	29.09115847	17.35209648	29.84451658
11.28102368	2.538692538	5.602808183	3.423615423	2.256248251	3.254451227
209.7388653	8.174856671	105.2535535	21.19098459	4.588297115	32.60185356
128.8311059	9.602631722	51.37490862	16.68496963	3.049336181	19.33830055
109.5883166	10.88471093	58.80246677	22.09365504	3.838143584	18.98779743
19.95296786	0.9345089	12.07319382	3.608920736	0.658349711	1.821731602
67.14527577	9.015774955	53.77152997	21.16995536	4.125264212	18.89740789
33.35204827	1.916610442	25.56200456	4.19571288	0.883747779	2.576613877
21.56156862	4.116682326	9.774281404	6.076739785	2.336926534	4.158540306
28.21981173	2.484409048	12.93481143	7.157995299	2.443831302	4.441659592
65.26811152	3.845867458	26.64484475	5.185417138	0.693088145	7.189569387
12.39776768	1.145818572	8.521045574	2.235281543	0.663619786	1.284692683
17.74643174	3.843519589	24.14907335	5.397175337	1.049982705	1.889102145
57.0657713	10.22284402	33.6558121	24.05111122	4.673451974	16.6896658
19.67969975	3.594293542	9.693366949	4.1590925	1.771631642	4.368643518
9.236534735	0.767006591	7.656711331	3.795416486	1.265773949	1.920018741
34.56003382	1.572784293	20.59712296	5.630383494	0.882955268	4.637451263
38.18325736	1.182210226	13.13038447	3.45995012	1.131036998	6.284949496
16.85045007	1.678784743	14.42841865	3.525739628	0.891726707	1.835905057
40.47516015	2.481755803	15.86107712	2.935712509	1.020514347	2.79684819
5.786139265	1.208609244	2.557560489	1.689545538	1.515096131	0.821994736
42.55308783	1.457107496	20.02794732	3.283043596	1.367299275	3.919679499
39.24504167	3.125071799	22.85298606	6.028830137	2.120666386	3.249589359
43.4784482	1.181627404	14.98962548	3.794581303	0.914164352	4.046704837
22.58162829	2.122392869	12.34479225	3.038410854	1.854779841	2.918530657
17.44132677	1.934533854	11.46720622	2.801979749	1.227800202	2.042842208
46.36606075	2.112067216	15.08125603	7.058788812	6.25749524	10.02573205
69.00481545	3.43871743	26.36051982	14.549517	9.310634814	13.50107668
83.61641909	6.227720695	60.26252802	12.91105277	3.694011223	33.37478283
29.69571178	2.137492554	13.48586158	3.531018572	2.639307287	2.943930089
144.4383406	17.90046162	71.32268764	21.97281651	13.2285862	10.5171791
116.8241839	9.574666833	58.61856847	14.88104682	10.78436369	9.082027475
32.25547778	1.53675797	22.54616998	4.327012846	1.285363918	2.945144427
8.668158025	0.805221736	6.131563447	1.950250712	0.721856143	1.531690448
119.7394613	8.415069275	52.50546829	26.88470551	2.959315383	24.9709433
124.2566958	5.421317866	37.02045788	10.12207874	2.842543439	24.93354644
5.610935346	0.897560706	3.110566037	1.301255839	0.641472277	1.762225057
10.25631122	1.060346274	6.079373365	1.883537584	0.741074208	1.233369383
19.32950941	1.219042892	9.845428409	1.780315473	0.667253057	1.714189855
164.9258755	10.21068861	55.67243509	12.50934317	2.800968247	20.29446667
68.02056366	7.055713989	22.39212492	7.11935198	1.540370099	6.725733123
48.25950915	3.825875018	11.81567874	7.46885626	2.560758392	7.588444207
34.02468926	2.397216708	13.32975791	3.073817312	1.563561236	3.107892435
114.8490641	10.91764767	39.87886004	9.864006411	2.450275429	14.35872581
4.008204175	0.486441706	2.392547562	1.313700983	0.87726933	1.139149687
37.80483259	4.225754594	13.90852827	5.350233721	1.974594959	11.86752278
6.247620109	2.170226853	4.435027177	3.240225262	1.876970026	2.572990957
29.11939867	1.558447996	16.27223384	3.182005108	0.718092048	3.252169747
97.05994842	5.353086736	48.14644952	10.51257363	17.14679063	8.639839866
25.83365332	1.691175894	12.0788623	4.893247288	1.65642842	3.388421868

26.70757801	1.138506494	20.75486103	4.858619265	0.851821738	3.722727135
32.03127201	5.259586317	12.83194345	9.731383422	7.112562964	4.097654438
46.23171778	8.27710301	30.17406611	47.94295328	10.14097459	6.111961907
15.19863493	1.003793344	7.479261285	4.790045724	1.117544025	1.679470711
64.61846698	2.501630312	84.27873918	13.27853244	5.477630265	12.17739854
28.82739843	2.50288662	29.33074466	7.268611047	0.965943313	3.119426273
37.46545376	4.216830696	20.70801514	6.425198048	3.01999702	2.642916192
18.94714014	1.982454311	11.36443483	4.360869971	3.164989301	4.879880362
28.73087956	4.285575935	13.55518196	8.173725653	6.819625901	6.585862284
150.7703476	5.146338562	81.56957187	11.89715807	22.33411725	36.05265363
26.40370227	5.883425172	10.70162292	4.17664313	2.414168382	3.447749988
65.27419176	8.254780885	26.926348	10.57502796	5.464266021	6.269691489
73.22351964	2.242339382	30.21482538	6.994901907	1.570049174	10.19125076
50.77992586	3.316054048	20.40342817	5.021104603	1.909167696	6.813067694
80.98278068	15.75809456	32.07755994	10.66348894	5.821956885	6.083550494
44.05233424	5.172031429	17.10096464	11.29920392	10.10255569	4.996735756
42.22011618	1.616289961	13.86423216	4.153256367	0.770690366	3.944742587
26.52309198	1.300777899	19.24590014	4.396301114	0.809870157	2.093967524
45.12832463	3.897520567	27.05991403	6.90482132	3.849476732	4.117720552
48.99349503	6.144265241	16.77564411	9.140781623	6.255524578	8.765585074
46.41376982	8.218189592	19.46059895	9.010615731	4.753306718	8.822147018
22.38608129	1.150492263	7.478265101	2.55370238	1.246630243	4.969650197
60.70046151	8.524582618	25.35503877	9.185920874	7.586454003	13.16607827
32.78523782	2.706957217	13.32789433	3.721588779	4.037315315	8.751361693
29.57567674	2.26178312	11.96165187	4.310960923	1.761577355	7.077523527
18.33454202	8.500262843	19.52097127	6.648537125	1.308619794	1.465139909
21.31306399	6.141143406	17.64941105	4.200686831	0.950198102	4.085363358
68.08104866	24.2161011	55.4463117	11.42368943	1.420370761	5.305079254
39.53800297	2.258675468	28.75204177	10.10422695	1.308211027	3.157795493
81.29478989	8.944709034	39.52263724	38.68470295	6.856993754	18.90002373
30.94296668	1.235615363	15.37362701	3.681124221	0.76367381	4.435238401
29.03192009	2.233906333	16.05858222	5.276410185	1.256852172	9.10628199
2.197932141	0.873465815	1.756755279	1.162011354	0.725830765	0.651986899
7.321010866	1.495911342	3.27321275	0.921490596	0.905421839	3.184806645
0.811219264	0.403166291	0.839004575	0.722396538	0.554448904	0.471082499
0.581426428	0.490994725	0.477978175	0.380072108	0.267402734	0.208715778
0.344739808	0.175713168	0.220844264	0.346895291	0.238787539	0.102548779
0.85695648	0.245522872	0.508860176	0.455759867	0.429368774	0.326827709
0.563660968	0.389538954	0.32450925	0.495653873	0.188759899	0.05168593
0.413479531	0.281526892	0.695054613	0.997397719	0.464252589	0.289082627
0.318742644	0.046720894	0.383582209	0.323680116	0.371137229	0.147360629
0.855510208	0.521082913	0.581263192	0.363635527	0.411127621	0.368342077
0.431128353	0.253030725	0.160557509	0.454201126	0.323948567	0.19042368
0.425234114	0.270351024	0.288213271	0.381352269	0.411718304	0.090848357
0.565779733	0.680171959	0.444298443	0.293917069	0.419526311	0.316757658
0.519524212	0.495316559	0.24619034	0.398353558	0.141987176	0.114507777
0.393437007	0.288808534	0.307923495	0.639654717	0.478089607	0.087371046
0.509312819	0.413858987	0.376341684	0.450138846	0.391029955	0.167194049
0.731050484	0.400967188	0.484918374	0.455126106	0.499472679	0.147112791
0.57884978	0.120427059	0.255446026	0.846166237	0.606405603	0.062950914
0.206759908	0.043816531	0.058577994	0.151459569	0.441037291	0.025404628
0.200853719	0.106355737	0.175634662	0.300132202	0.539590123	0.035552273

0.353844132	0.36767728	0.37370637	0.340936222	0.500552946	0.106846165
0.249102806	0.29806821	0.319269178	0.52116924	0.661933742	0.172176475
0.377119983	0.004404949	0.064404146	0.223392949	0.473656146	0.001073284
0.611401062	0.471980285	0.166102691	0.450720992	0.515186575	0.134730113
0.695554036	0.300585877	0.838247135	0.754784048	0.44315281	0.281870993
0.351516875	0.007102303	0.372298397	0.248012289	0.396221721	0.121147878
0.523197137	0.221385432	0.201624412	1.013976888	0.423450891	0.128890529
0.53467716	0.300338365	0.185101613	0.45049559	0.594618143	0.075470915
1.182409248	0.598254951	0.754495603	1.42131806	0.672404322	0.636320095
0.317528143	0.358969588	0.628436919	0.804868339	0.513370157	0.470744968
0.392338534	0.234341794	0.191051485	0.667879512	0.324418674	0.426095496
2.40163521	1.180163781	1.231899595	1.674959008	0.621421265	1.511204538
0.85311084	0.659797089	0.788012377	0.804969898	0.472617824	0.580389728
2.093463286	2.495284623	2.296096735	0.892804734	0.479334019	0.844497461
1.568993173	0.924689622	1.414023227	0.816340307	0.49734749	0.495687285
2.113559186	1.078270047	1.297645561	0.772512567	0.411927429	0.704913821
1.853818065	1.51725302	1.620940508	0.878032782	0.472762717	0.438870794
1.220473249	1.428313157	1.374806198	0.62179907	0.495476918	0.534271681
1.468715507	1.68547069	1.520012753	1.289480998	0.686584179	0.519594924
0.547350109	0.877151452	0.665144363	0.656946522	0.861974814	0.224298464
0.928757636	1.137727609	1.40306417	0.707279422	0.585921048	0.431423734
1.06931824	1.308398128	0.984805086	0.852982232	0.872764929	0.680369478
1.400598909	0.89671498	0.690699263	1.135579235	0.536060926	0.989889003
1.03461311	1.751477467	1.818354496	1.063625012	0.699172449	1.010259426
1.122196007	1.09011931	1.159411375	1.023669938	0.42834199	1.549773883
2.043071043	3.332251744	1.735254957	2.390910146	0.888865286	2.038124643
1.670715946	2.665067306	1.414551752	1.53176878	0.54299783	1.007496773
1.04421372	2.23204788	1.488886932	1.549125172	0.559084688	1.478707263
1.075481025	0.477482658	0.818226077	0.582149084	0.41852673	0.369796742
0.90083847	0.50225478	1.220809473	0.793274283	0.437305452	0.424710707
0.820410977	0.527026903	1.028608368	0.545956193	0.41852673	0.624841601
0.650236149	0.276617253	0.392719093	0.609198352	0.525970107	0.169887633
0.763313937	0.466456634	0.997390133	0.715070907	0.222749257	0.330800876
0.621966702	0.346988748	0.320822231	0.764171222	0.461569218	0.224518672
0.652544973	0.376515441	1.415916235	0.719238685	0.327147798	0.47939942
0.899122573	0.213877034	1.133756199	0.586053982	0.435921664	0.347943789
0.947767133	0.412657309	0.993520971	0.458196667	0.41512666	0.588190287
0.832638503	0.699355067	0.828508097	0.694661737	0.371258635	0.371708569
0.958951654	0.535426693	0.702439304	0.629085336	0.252009083	0.201513386
0.765034281	0.422071966	0.810498269	0.760238137	0.243491258	0.380867054
0.54793809	0.251422316	0.676786773	0.599756639	0.488017462	0.192295623
0.809731591	0.332640652	0.633653567	0.521207298	0.391793636	0.264588154
0.829759509	0.468004544	0.700584404	0.6882805	0.539947781	0.251535336
0.925346169	0.96157938	1.028729466	1.319215524	0.414311099	0.153264951
0.259915604	0.465956172	0.587106584	0.770478351	0.629791021	0.260829985
0.177228966	0.317425558	0.505521634	0.546117832	0.631461408	0.164427361
1.073067908	0.382904264	1.239752596	1.069704512	0.533296875	0.3495016
0.83798182	0.994158904	1.155622391	0.84441324	0.605801291	0.360908479
0.623843997	0.404657098	0.997259653	0.646548731	0.69233882	0.264468499
0.655952636	0.483719628	1.057832172	0.676958385	0.613414435	0.416561491
0.769806661	0.533024868	0.594561301	0.743924653	0.661436945	0.296585081
0.995039622	0.518937657	0.771300477	0.676958385	0.486809637	0.262629493

0.833157763	0.472342968	0.712178902	0.810164504	0.833351417	0.604953554
0.839717776	0.372241928	0.956716327	0.815302631	0.607005247	0.433696558
0.998120236	1.889398892	2.104851505	1.244374159	0.795222786	0.980493111
1.344802536	1.301155707	0.821344905	0.660269022	0.839311465	0.755385354
0.961627363	0.63148903	1.29501996	0.976104373	0.688150279	1.177694947
1.816505772	2.614889089	2.633648705	1.757401866	0.828539567	2.061336982
1.077705977	1.055647465	1.348712021	0.833174034	0.357998958	1.239620167
3.990568262	1.064716846	2.710135326	1.020236115	0.435921664	1.69763048
7.261495606	1.46830104	3.612371612	1.057527832	0.362339343	1.593372566
2.822537361	0.672984153	1.39963981	0.932656229	0.500236361	0.40013665
1.892669735	1.09454599	1.389228347	0.573573525	0.357427984	0.259567839
8.074443697	1.764209233	3.560756482	1.195084003	0.65374776	1.912244077
1.661946923	1.300873866	1.252124685	0.961956512	0.668950298	0.527863714
9.704872493	1.169297258	3.963317117	2.063341125	0.593768863	1.323175683
2.546961224	0.83750028	1.576321291	1.025965852	0.923439444	0.878336281
2.242527227	2.349690876	1.745775254	1.130216803	1.250280941	1.028863372

2-Methylpentane ng	3-Methylpentane ng	1-Hexene ng	Hexane ng	2-Methylfuran ng	Methylcyclopentane ng
60.16882278	35.11428844	1.544251254	16.44088983	0.968815524	41.90644576
10.69131238	6.976194331	1.424550811	1.771380041	0.377318827	9.706271689
2.521490685	1.594216204	1.080219101	0.552070821	0.364306568	1.162860549
8.130050849	5.813638287	0.964612752	2.547337983	0.45900773	7.014785667
20.33450897	16.31724468	0.857441262	4.372896948	0.345385312	20.31475105
22.30248718	13.21646023	0.750171628	5.979902917	0.706356065	15.70144165
4.223895047	2.304465829	0.887551448	0.797089828	0.659734467	2.516732566
11.03622775	2.901172739	0.722414798	1.678407365	0.420652368	3.681122406
48.55954906	15.49179114	0.775721996	7.803156258	0.445722288	19.99121083
2.477483628	1.722726181	0.907990896	0.679099143	0.397563557	2.161314681
19.17030097	13.96862637	1.301248986	6.635265014	0.420262194	17.34802299
21.14893583	14.96567447	1.250807331	5.873549962	0.422102624	15.75801897
4.858774112	3.28265464	1.115089355	1.916490798	0.265129779	3.553881966
27.32912578	14.46352874	1.05473191	6.594995338	0.412816835	18.44089624
35.58767248	21.97503809	2.820828572	7.222484609	1.068948106	19.58836207
101.757715	57.82442214	1.380067149	20.25376374	0.595232171	54.14375615
1.687625081	1.229075679	1.115913678	0.915294192	0.2747068	0.926254348
5.878911632	4.064646969	1.276670912	1.978640328	0.783771021	3.630378593
12.35922474	9.06693921	0.86689757	2.340987619	0.522528925	10.2605197
1.917072132	0.740887852	0.685193009	0.431924827	0.279944667	1.061457065
1.17791782	0.903403875	1.130252959	0.762898344	0.361427012	0.636205258
1.506826422	0.650770088	0.733151119	0.836236881	0.200511724	0.73391173
7.033021802	4.942844053	5.069733592	2.638284819	0.313957613	1.644288327
2.872757085	0.759042341	1.006357221	0.526340947	0.277196714	0.775842362
14.3676212	4.436085072	2.433684649	2.355094799	0.334996808	4.238917886
3.680726248	2.185979749	0.906959758	1.048939527	0.173054467	2.240132361
15.93543566	9.596721801	0.848745631	5.267718195	0.327224756	12.20390885
10.76219669	7.920861287	1.194761047	2.966962765	0.561361828	10.2801987
10.60817647	7.958792465	1.276028159	3.299703387	0.298793813	10.11606925
7.603113776	8.687653911	5.989256145	3.603050199	0.415006859	1.701926543
12.95591432	8.198754266	1.323310536	2.907282983	0.009783643	12.91490493
14.81498313	10.32114164	1.238230913	5.072028686	0.485782147	12.61779656
20.10822849	10.19702802	0.571415816	4.626621248	0.18519853	10.51759078
1.361074281	0.370998024	0.915217986	0.480089559	0.187376695	0.519592068
21.16861118	10.57375008	1.921711296	4.089877857	0.332224708	11.07698823
4.097479327	1.78740717	0.792312862	0.878867219	0.221138262	2.086352442
12.8440923	7.503218527	0.672729499	3.204440256	0.248365332	9.809617372
7.503057917	3.734352843	0.979992308	1.537511838	0.301730389	4.741028973
8.20517539	4.760056795	1.091271271	1.653743241	0.263612491	5.02430784
12.32110743	6.27846056	1.418464641	3.20916511	0.441132987	8.304614477
3.89363877	1.792342394	1.305524798	1.233231254	0.154704211	1.709989839
19.27208493	12.68404321	1.604489586	5.363181232	0.408011842	14.32259313
12.22188314	9.229523769	1.068632139	4.855697561	0.358805283	10.99618453
11.08526306	7.040266344	0.803855517	2.258052544	0.36775193	9.970091264
11.54622565	8.412576605	1.150586807	3.165401754	0.773035044	9.958317138
3.226934026	1.985296262	0.810896964	0.529712457	0.22637757	2.272426831
9.712184138	5.954926396	0.792722899	1.273913766	0.328721119	8.177976297
9.315526714	2.498770291	0.598393969	1.242441179	0.14836518	3.980308814
7.7457743	4.272858364	0.626102128	3.253737096	0.212101964	5.708781885
27.55852854	16.12283971	0.5658454	4.211867065	0.236338341	21.9465993

1.808354102	0.992258633	0.814021415	0.319789321	0.15151102	1.145190635
4.250466481	2.525602781	0.597868126	1.008033908	0.244194389	2.981961913
8.095159672	5.056870409	1.166584916	1.665719575	0.347007073	6.473740093
8.196039375	5.044361249	0.960602672	2.475808967	0.102762942	6.236294458
4.966375436	1.94615686	0.906913586	1.018722891	0.090448326	2.510599467
8.882584916	3.929294171	0.606294297	2.236790199	0.273414236	4.124349226
19.46376289	9.833466558	1.106219192	4.718283412	0.285394147	12.60347199
9.292325024	5.177083181	0.961722628	1.786039148	0.27885965	5.121866755
10.01336718	7.449947237	1.22623727	3.237476283	0.366857265	8.589902063
26.39016819	18.88076854	3.905524507	6.529208889	0.332860006	22.89633717
9.56819098	5.713833904	0.669891156	2.74184048	0.136928434	6.187980382
18.38713981	15.67378878	9.137934656	4.794757545	0.597574919	2.12719643
2.828131344	2.035604699	1.017636765	1.02234582	0.352808945	1.088161381
8.432846893	5.803085503	2.53124629	2.472070284	0.247133322	4.037884422
1.586700387	0.619945245	0.723425114	0.370964532	0.180309031	0.584111062
16.08179444	9.306842651	0.801233154	3.317903326	0.364464344	12.35021424
2.534428654	0.424590486	0.517889221	0.360807193	0.109367527	0.503231252
3.136771795	1.306570428	0.880405946	0.766762445	0.245763599	1.54099261
40.25941548	24.7514807	4.069927327	10.24340219	0.732510845	26.28358426
0.87666352	0.408672178	0.700657063	0.879517631	0.108424127	0.502909467
381.4556314	276.1398973	9.914628682	132.5558426	2.749633115	286.2583394
3.063863576	1.516792415	1.259020157	0.874142365	0.115497231	1.443269135
1.639427742	0.567701127	0.737241298	0.395132752	0.22881087	0.535141343
3.542316197	1.549680323	1.082640263	0.582728598	0.132650584	0.93583819
3.443149232	1.954340829	0.691987817	1.063156515	0.199971255	3.075339087
26.165859	17.98925517	4.138088143	7.206852416	1.112120838	21.21133076
14.82005655	11.92181683	7.930394808	4.523119149	0.493450766	3.103076815
23.047075	12.95273657	2.942170001	4.632217493	0.384667037	13.06578567
40.24028453	24.54858583	2.527599039	8.9512284	0.73976821	30.70529662
3.920644737	1.930571901	0.916729463	1.142353998	0.277437361	2.394898975
13.28206433	4.35174923	2.427157237	1.221218902	0.259787047	2.967304215
87.4361841	28.98648977	1.266365799	13.88242884	0.689457623	38.34188201
100.1286893	32.88714297	2.479376533	14.15286128	0.491683808	40.40018162
10.94319252	7.029605104	2.660532672	3.028226723	0.346748505	6.154266116
2.033800357	1.188528757	0.641771049	0.573622541	0.260758259	1.401163879
12.70145138	8.331782382	0.51566691	1.746913818	0.228243996	10.22969733
4.867422509	3.391698012	0.477368617	1.627301177	0.264439119	4.884180114
33.77246873	24.47691735	1.212509037	10.70970655	0.387134454	30.95182903
6.067271774	3.308715389	1.67706265	1.036332976	0.274844034	7.990619949
23.87974497	17.43989574	2.75846943	7.738316836	0.371986586	20.41011144
22.96771011	15.73656521	1.77333696	6.437748435	0.36088458	19.58748887
7.55247381	3.01710036	0.837156624	1.769974645	0.199356606	3.510354586
20.52826358	9.926413268	0.790651982	2.164972422	0.234207256	11.98007947
27.88678117	16.24793731	1.213763944	6.049536843	0.604342092	17.2334119
60.60445633	18.69366164	2.353179901	8.536234311	0.534163395	25.4482909
499.4614347	290.8158625	3.171946869	73.70687129	0.491119686	291.0733248
39.36302471	21.90507013	0.651695827	6.626150166	0.266558988	33.19597384
11.38493436	3.24863641	0.75070025	1.215761746	0.22775326	4.425516477
68.98586862	23.13358231	0.786601016	6.37520025	0.284856967	37.49261553
1853.938174	623.0693685	4.92715604	265.6635129	0.674833503	642.8358739
3983.985479	1318.295018	7.974369551	428.47839	1.080130545	1173.143638
20.00048371	10.64916854	1.501356634	5.307616184	0.393201561	17.6769614

21.56041921	14.26399122	3.329484483	4.169656149	0.458505134	15.05235821
16.66222157	10.7060935	0.713697113	3.345373669	0.273641269	14.26112686
11.63830188	7.774485278	1.2673371	2.772063206	0.134681209	13.41872359
7.92926999	4.276404891	1.244072236	2.279313884	0.181931281	5.187651895
16.84020101	9.061678304	3.067085242	2.852827828	0.297641391	7.20999738
1487.793901	933.2553312	5.724699818	315.5332135	0.811709281	929.1807849
58.54689751	32.11120247	1.179139679	7.240212949	0.341540501	38.41999543
478.1587632	408.9162958	1.557208047	63.0109567	0.437535777	437.6839654
9.577662814	5.896540314	1.612369843	3.374714085	0.337333333	7.942761218
6.75551592	3.101755549	0.679530668	1.451172815	0.288998261	3.958696089
3.426807385	1.692767419	0.652351435	0.799255283	0.243730292	2.248170591
7.795108805	4.213571521	0.614979989	1.154048863	0.230149901	6.761673522
676.6719363	400.5406248	2.548102978	99.57353728	0.40895838	393.1531412
8.717144059	6.723264148	3.984068285	2.051720782	0.216829283	2.966777494
5.515416456	3.358218794	2.483832016	1.512646613	0.407977836	2.952633225
35.30454686	10.60127612	0.730030112	2.783784777	0.096832566	18.76188903
79.09836013	27.10363185	1.083598263	6.241803085	0.240984607	53.54266611
711.1705919	252.2412958	1.476330886	55.74912885	0.348924541	294.0913954
8.467300661	6.241692278	2.020177275	1.922647664	0.386469234	5.457058453
6.586081673	4.562758614	0.828505363	1.772666126	0.438598622	5.545653093
11.91623575	8.415579695	1.050160169	3.900533709	0.2110075	8.135256884
115.2644029	87.20347746	3.134610919	20.83865469	0.499659654	103.378076
0.807115854	0.262735086	0.884478799	0.271726601	0.065293672	0.426710899
2.579716342	1.583493828	1.077027418	0.826127687	0.392802847	2.50888011
8.018985203	4.770202173	1.054638044	5.918996199	0.058354919	7.389774015
8.889164743	5.359492916	0.93232775	2.125183333	0.223749802	5.647450911
4.053773305	1.655402622	0.841180801	0.551462624	0.179212407	1.720964279
537.7246475	348.9160107	3.564395789	85.78156129	0.724795503	355.2447482
10.479372	4.150829871	1.060253293	0.938023761	0.164029204	5.620480931
422.9711224	349.5109565	2.639955301	102.8908797	0.53863289	352.4519403
3.14019653	1.309435973	0.534574756	0.415000045	0.18714533	1.903670571
8.339418018	3.596526555	0.647821563	1.1402583	0.173564939	4.302582027
5.376515443	3.16160272	0.471156544	1.394130031	0.083783467	5.609962672
13.37284859	6.364782641	0.914297962	2.247456046	0.218383337	8.472112804
12.18692327	6.208945935	0.622517812	2.038885683	0.453822408	7.51962486
1.785708403	0.947601909	0.56051453	0.421663174	0.250241429	1.508953388
8.547541932	2.385037384	0.796392134	1.247898335	0.438062035	3.451660434
4.678559139	1.066988646	0.796392134	0.690661999	0.257697887	1.214191884
7.334436842	4.370517836	0.806872312	1.025232026	0.467930392	5.980378219
3.707699197	2.250928039	0.562781498	0.991116354	0.225566618	2.750479538
8.929212397	4.443525402	0.879384645	2.059688583	0.242397436	6.197876097
2271.932584	1393.787941	7.370770459	708.7820204	1.050949915	1280.762211
123.3711111	93.5220472	1.326469814	20.15801787	0.850922817	105.4471337
1.949789324	0.923462073	0.708092484	0.502398649	0.118431671	1.479546211
68.05064331	51.14686805	2.223363384	21.17916268	0.607904212	82.85047896
2.25648954	1.725264301	1.009859295	1.053542766	0.509373909	2.096062191
18.80281953	11.43966897	1.097177855	4.869199021	0.224885008	14.31125401
17.82961367	8.990244318	1.103428164	2.255931954	0.173139126	10.38517742
3.218467809	1.502057665	0.985097037	1.052665667	0.386716182	1.588254853
6.778566633	3.730798033	0.829987316	2.411314372	0.331044437	4.049800659
9.389804773	6.995193397	0.906298853	2.073423271	0.219237588	9.478194449
29.51271613	18.71174499	1.375962145	6.925125138	0.250550853	22.22215944

351.1556769	277.7942637	1.60921774	58.1355591	0.425010471	286.9245689
4.252699193	1.893461811	0.779187858	1.404159532	0.20676145	2.472924614
2.775647634	1.222244836	0.556091649	0.69269184	0.341810892	2.262601518
71.52579812	47.09561707	1.360143976	21.21681093	0.712253775	72.77487783
4.519197007	2.822640727	1.11779581	1.336460403	0.405186049	4.634493365
29.94601955	16.97994522	1.215804116	7.016337184	0.324058959	18.36795785
36.09766869	22.66427459	1.117328316	9.275956412	0.29841708	43.37856179
16.47574909	10.98565493	0.772055139	3.79151849	0.086288808	19.48149758
3.134089246	1.58008202	0.723425114	0.727138537	0.228484683	2.265671788
13.29838981	7.602913833	0.738014121	3.250519055	0.139903646	8.255448317
35.27756361	11.62342653	0.722414798	3.869758964	0.272322007	18.8573315
6.159989727	3.160204091	0.73742388	1.339211853	0.490820304	3.956102289
81.20435067	55.20322104	1.034622318	21.84735646	0.670573436	94.74048915
4.740538334	2.598899166	0.592399212	0.928667328	0.108424127	5.426973087
10.85440657	7.168983185	0.863043838	3.006253917	0.377043977	12.34301917
8.076192914	4.349658532	0.579122306	1.916287115	0.31308687	5.119495123
3.26152168	1.175725699	0.597505715	1.29121862	0.230279247	1.850678674
6.84552157	3.493478891	0.678188452	1.574552165	0.312413637	4.422011448
22.86066064	17.16161874	0.667925981	8.086383837	0.673628059	33.11812731
4.191833781	2.693583712	0.773479815	1.624039014	0.416581334	3.499074881
21.31258232	16.74527891	0.692212704	5.377701193	0.274868223	37.67666487
3.024430461	1.800846345	0.701553751	1.246171804	0.363208863	2.56479957
4.452618031	2.621785411	0.746390778	1.522911962	0.192662349	2.792581783
61.41728818	54.95799193	1.724080336	20.03839947	0.766107796	84.4643861
18.24283424	10.74853791	0.922540735	4.751189034	0.263742028	12.80582458
5.599931111	4.06656196	1.211363664	3.009312451	0.254027773	4.330702838
2.21737292	0.755804451	1.674823713	1.247767537	0.009783643	1.090835493
1.533861466	0.799586508	1.003142483	0.373756069	0.297048046	0.954635712
55.66296313	33.63522699	1.068018951	14.20956971	0.403015089	59.7360634
10.05209437	4.931144543	0.853765424	1.789819031	0.159060543	7.076625199
44.97471739	25.60479581	1.087949511	12.06259615	0.441132987	40.13074914
129.0146785	85.27493813	1.564622086	27.84455279	0.270146988	140.1161065
20.00051458	11.57901197	1.041064462	3.499938752	0.219700948	17.1242477
11.54472152	5.850006288	0.887553811	1.832420119	0.324971156	5.09948941
1.512121824	0.529603001	0.548551123	0.303229736	0.065844491	0.610057954
13.82297915	9.494692484	1.405699714	3.89565076	0.289079563	15.55571296
15.99701786	8.940898082	0.612739592	2.47138786	0.315804946	11.7772407
3.259180659	1.230687422	0.670177347	1.029444455	0.337581185	1.99456196
7.73223382	5.429713363	1.338136914	4.84681166	0.638835337	6.848203589
26.86533853	16.63114556	0.888962289	8.704279954	0.512687613	17.14663903
3.897719684	2.050047214	1.334984811	1.121644557	0.198660299	3.484292216
1.26297119	0.540908364	0.953580392	0.433480901	0.326597353	0.693824382
18.07835373	9.527582022	1.602221234	2.928210079	0.554620765	9.597566749
7.491855073	5.382350348	1.810805393	4.207160987	0.498387911	4.130257003
1.837877027	0.694454702	0.509660458	0.452610672	0.325212637	1.000662944
2.367101458	1.21605375	0.594595563	1.827905928	0.230904367	2.169875132
16.66998881	11.35292624	0.865255431	5.058658777	0.274663404	21.94638696
23.67929774	16.17222017	0.847431677	3.79151849	0.30541032	23.87843653
2.581740467	1.242721239	0.928886969	0.646919166	0.161660392	1.82527068
2.312335057	1.2176047	0.734366869	0.563491021	0.125917167	2.16923359
50.80953691	17.02284812	1.053137007	7.758286303	0.428312621	27.18825846
59.61022738	20.47097928	1.214146503	11.52251174	0.447115062	32.9259508

23.55437969	8.244691718	1.016148339	2.353882097	0.250734021	14.17979348
12.15291914	3.596100081	0.751788152	2.654025717	0.18805922	7.948029224
1.648132703	0.233750522	0.654964874	0.450547103	0.244466541	0.348351564
27.14730309	8.7892603	0.773546192	3.640558382	0.369119754	16.29781607
35.24850472	11.04223209	0.862754156	8.574434408	0.279285874	17.17908721
4.549479951	1.720912071	1.045856623	1.233395447	0.302315146	2.308031444
11.95497835	7.782231863	0.780952653	3.175741195	0.228243996	15.35400803
5.155236912	3.140884167	0.792682364	1.766519773	0.102762942	2.971115649
3.582337059	2.374698157	1.108372542	0.910947365	0.179089233	4.704950908
2.332664009	1.411492887	1.000903546	1.092879429	0.083334432	2.243109742
3.530867823	1.904562251	1.141956604	1.240391913	0.137456711	2.698716087
9.957380577	5.163100048	1.136115033	2.118668855	0.250543498	6.174428994
7.853087156	3.320616606	0.656120698	1.430730142	0.198267523	4.908848207
19.05608178	11.41685077	0.946774707	4.581262652	0.224405511	18.0860145
24.12944674	12.86451633	1.127810633	3.621172361	0.255988912	17.21738214
1.818171286	0.691787552	0.563111416	0.728616869	0.237474504	1.011861823
2.153118287	0.826768383	0.71165619	0.79685315	0.12860173	0.964948645
16.38457983	8.921667691	1.055456085	3.627845011	0.116455167	15.97181617
44.4253833	24.55237631	2.665718852	12.98774079	0.749088628	24.85478581
2.497067609	1.076311108	1.372071803	0.435873264	0.4778154	1.050995725
1.547856818	0.673423426	0.748434783	0.371446408	0.266262771	0.712800736
10.23911256	6.524342076	0.882658083	2.748751736	0.340017324	10.13100432
16.50630939	11.94436395	0.754997927	4.219861989	0.454534407	18.54078275
39.47077096	35.79680652	1.15373891	15.74685004	0.546684872	53.05074572
2.551140616	1.112368941	1.015046394	0.465075216	0.265760153	2.125034795
25.27722769	20.50580925	1.440580249	9.682716371	0.560999507	35.82258308
22.9804559	13.49762183	0.604787776	6.807552927	0.364444877	29.31997695
31.8012821	20.37953053	0.926408707	9.778165606	0.541744424	33.53687826
14.70268184	6.938165558	1.101941257	2.340664141	0.21279718	10.8413275
20.78939133	14.09867316	0.829016453	6.600694479	0.231658833	24.73738979
28.1928537	16.68710921	1.116112565	6.873225827	0.391660277	17.86294314
32.06606413	18.64905338	0.466901732	6.665297219	0.268890068	19.88171611
11.26769577	6.937325557	0.768407887	2.761501773	0.171761738	13.737317
116.9496317	34.16519242	1.610142832	17.41927275	0.527895915	37.42574866
6.509514179	3.255493188	0.709848767	1.323021365	0.136699901	4.037249975
28.8262571	19.71158826	0.850788232	7.97037328	0.458505134	30.85517988
2.319087825	1.367347168	0.917331943	1.317395695	0.33805632	2.881748261
13.06374897	9.709045392	1.177013058	4.481150073	0.211066649	16.92270678
15.75822784	11.16984731	0.516601015	5.009076778	0.296953383	14.25981172
13.69208149	10.07616501	0.834196623	3.251858331	0.386520977	13.44284688
24.37810993	20.03400235	1.468453733	7.911858118	0.590808708	43.17894674
4.597310393	3.66626886	1.350177785	1.643592702	0.101375192	8.589055268
17.72608311	10.76313193	0.732231054	2.583984788	0.07917118	14.87654337
23.20495775	11.35762808	0.863730705	2.948353181	0.345293701	16.28251713
25.05187674	11.92435625	0.775704062	5.260696627	0.046885014	15.15387683
20.59826943	11.85197297	0.752451741	4.564253178	0.283215982	12.06600292
3.93070069	1.497051521	0.970027028	0.70593757	0.088270161	2.102910606
48.00111618	32.8406236	1.122616995	9.563642871	0.624586363	40.15404217
28.96999819	20.09108576	1.103428164	5.538859262	0.160992563	27.21401693
29.14420629	17.63089928	1.57835174	7.19500845	0.270311625	21.3144408
5.250895619	2.355455686	0.820392901	0.815802225	0.270311625	2.366959517
2.890335672	1.232306704	1.155207281	0.706284114	0.354408278	1.492281221

3.419208643	1.926168989	0.754738487	1.527445345	0.177228885	1.805831366
9.039346914	5.950466876	0.840104698	2.672727917	0.144980417	11.7043764
9.246148623	8.196065484	1.04656742	3.858502021	0.421431812	13.7203684
4.555765086	3.130033535	1.647174717	1.433180708	0.79797329	2.422370756
1.395390092	0.681040681	0.731624199	0.485833392	0.2324133	0.87569725
3.410263635	1.706806374	0.959280735	0.756659265	0.294531947	1.893741802
2.577679079	1.2176047	0.784212645	1.074969727	0.348146785	1.471985412
2.038351998	0.497842189	0.627767324	0.446302648	0.228449647	0.507803346
1.70625047	0.352302621	0.778985702	0.274705387	0.036246926	0.557810625
21.60535886	5.314141672	0.591866557	3.302821016	0.197808634	6.652697814
3.463818791	1.862660527	0.597505715	0.844823728	0.298948983	3.913044334
54.57643155	33.70438907	2.019155975	19.58704864	0.604596631	59.37445104
2.50065977	1.255370317	0.904917157	0.837306715	0.373677813	1.20232523
1.05086381	0.561798437	0.778275899	0.407102312	0.228932781	0.674865276
24.86348148	16.2238177	0.807893612	3.739451745	0.279425234	31.43839436
5.08781504	2.892351657	0.890618951	1.069177637	0.286830794	4.599487508
3.607257006	2.249247056	0.612813802	0.831333414	0.234378762	2.781008553
32.27339685	26.75323959	0.889308801	13.49613741	0.546024911	45.82711224
1.995244901	0.816813214	0.744147341	0.612385465	0.275592402	1.281267634
2.419397978	0.710705909	0.785669342	0.389372366	0.066488505	0.916540498
7.844851174	4.298613397	0.785669342	2.454133474	0.059954008	5.11649654
6.969778077	3.433304209	0.875356865	1.267250201	0.468360057	5.538505975
31.64342247	18.35762103	1.583148948	7.198798265	0.555755843	16.23423835
25.99282647	16.43842794	1.165791866	5.396741197	0.382667328	21.90863656
16.90497069	9.331222545	0.946719374	3.418457728	0.437326859	9.058083161
11.3327876	6.173545353	1.167971227	2.990998256	0.439533573	6.086584372
6.12016876	2.797342639	1.338689	1.940972711	0.535546987	3.375726757
39.76702814	21.66035723	2.541690876	12.19566559	0.637499375	20.01318643
41.54510261	28.65757367	1.440580249	20.45539018	0.494794319	45.91736975
24.44528494	18.53869707	1.57296856	9.258167774	0.568156825	19.53722266
3.753075969	1.846455136	2.213588596	1.361933214	0.937585894	1.941456849
17.31591746	10.49922665	1.192245474	6.983477251	0.611823152	30.06405788
2.986834581	1.066435823	0.866387899	0.779823126	0.451962951	1.335644692
1.425559656	0.862645889	1.389588146	0.769166781	0.326721569	0.614405346
2.150886251	1.017938978	0.78371773	1.817876427	0.192426593	0.59751809
11.43692028	6.556581664	1.013989513	1.936846644	0.319396799	8.133293265
20.6955313	12.06109945	1.113681064	5.780958878	0.543957498	12.98188444
34.24804887	10.78874265	1.143432873	5.512363137	0.73611553	13.37539067
6.503041905	1.716133673	0.793128428	1.091459843	0.366334208	1.96372956
8.21336477	1.515173408	0.9410831	1.183018805	0.226360487	1.928295831
19.97183447	6.436049336	0.746348642	2.121649761	0.2256641	8.121768799
21.70539881	12.20603118	1.622891391	5.254418866	0.498225864	13.4821229
30.42552815	16.50636647	1.538123451	8.020101208	0.76617248	17.34409029
3.894262087	2.130987037	0.671039349	3.076798188	0.329244454	2.020702396
24.52512924	16.66309469	4.074605923	17.44661676	0.961962095	13.82476347
25.71204977	18.71999971	1.567354716	7.669477677	0.663414242	19.60134991
3.273521643	2.364273858	1.309876911	4.490583645	0.247089019	2.076174613
19.46368452	12.96995613	1.522575967	5.866137559	0.471904639	15.62323154
2.141433583	0.730446803	0.797295503	0.285425583	0.180842199	0.791235469
2.085840704	0.940193802	0.725877661	0.466859968	0.022925193	1.075409373
19.38185249	10.30653457	1.183381628	3.286761654	0.303714672	8.837186181
21.83639992	10.91705704	1.53517687	4.217161255	0.317885661	9.131715488

2.224588276	0.639135113	1.060253293	1.2118379	0.041551366	0.51930183
33.13172149	20.50014176	1.641832709	10.19089278	0.735492447	22.56705451
28.18823801	20.72393012	1.889754874	10.53280089	1.51471209	20.80315923
3.267673995	1.990797159	1.582441702	2.074408149	0.485783995	1.711368676
29.96470991	17.29327385	1.225380276	6.671527826	0.579467732	15.55532821
16.11939427	8.54268884	1.161962065	3.324808878	0.388587794	8.449785027
29.23527664	17.50225506	1.197567857	6.984891191	0.684599319	14.11278305
2.755026358	1.336337429	0.836489922	0.629591782	0.30074816	1.240533735
19.97666561	10.26697943	0.836489922	3.575888822	1.10263965	8.071251357
3.53462278	1.69578609	0.579122306	0.99632044	0.178440329	1.879383978
7.977809814	5.309138456	1.01433717	1.487475323	0.575985945	5.4462152
8.506913561	5.128798075	1.399434409	2.555711562	0.259578776	4.785103876
16.99207474	9.615053583	0.91153985	2.50132248	0.275372693	11.1964173
2.095048921	0.958206918	0.91153985	0.554304985	0.18022462	0.750901184
5.275463428	2.795489041	0.857171494	0.737163562	0.289543682	2.236818661
14.77612105	10.03922707	1.418515531	5.708744043	0.766772391	9.534448606
4.252684829	2.208763303	3.198968933	1.4763964	0.585645788	1.814562728
4.607709157	1.982843854	0.911096821	1.44002507	0.250476231	2.539307082
5.866156479	2.730857397	1.285594237	1.546016575	0.202623855	4.169996057
6.061954392	4.978937186	0.587592974	1.870332317	0.233765286	14.85372885
5.811488345	2.173537135	0.879558464	1.220364984	0.236908578	2.070289736
12.20135204	5.130904161	1.231353706	2.314674087	0.466681051	5.840093626
1.820030418	1.088339603	1.034487607	0.461034288	0.238762515	1.392765095
5.26589371	2.567258404	0.609317648	1.125840893	0.229395435	3.188944263
7.084547523	3.384105087	7.579658756	1.825787943	1.367551099	2.658064065
5.807836398	3.131028284	0.623733563	1.431785487	0.259565748	3.491079835
2.85355584	1.576319163	0.623038226	0.898599278	0.188538819	1.827769634
3.30110087	1.000397566	0.664808584	0.910206632	0.245239224	1.222039516
7.544375779	5.1649098	1.230965424	2.061575403	0.565472831	4.7253723
15.92481011	8.375768707	1.57801298	3.233614074	0.568211344	8.536221688
19.76897329	10.43528992	1.710109592	7.971598226	0.574011405	9.511160247
3.212580172	1.686149688	0.915463734	1.001509582	0.208612742	2.273364591
17.83097945	9.302107494	1.890154575	5.000829669	0.450934733	8.990659508
20.95865912	10.4684516	1.250542538	5.265045123	0.300678031	8.726737691
3.924706125	1.87577218	0.701541603	1.138503469	0.336491385	1.857095286
1.937333558	1.05605969	0.744092874	0.49353973	0.22459955	1.034798911
56.24147251	18.22812779	1.370804392	9.308118812	0.642799716	18.86047481
43.31442057	13.38725043	0.86492996	5.857376712	0.195719474	15.25766466
1.168661123	0.471336638	0.633206834	1.757839313	0.346835381	0.465797231
1.568969188	0.884169509	0.594441813	0.691014089	0.239704505	0.801831042
2.1601263	1.014540163	0.75887119	0.582306524	0.264614115	1.20011713
27.65405774	16.19632135	1.246031516	6.47911366	0.438308153	17.64798009
11.0378579	7.173526769	0.822053261	2.925098341	0.234992239	10.26783638
14.55557818	9.208868884	1.215841539	3.186327432	0.109701696	11.15274494
6.953306113	3.253168551	0.877017745	1.026282658	0.222227345	4.320362091
27.12741254	14.96403046	1.20097139	5.814568309	0.243994073	13.73630448
1.389585433	0.732758245	0.807389763	0.484295552	0.209893242	0.680310736
9.977058481	7.239070235	1.067056087	3.694606516	0.43037846	8.343953655
1.447671953	0.780760832	1.294007477	1.261844326	0.356121289	0.76359698
3.731017153	1.732493559	0.577608542	1.492544505	0.260328547	2.016047583
6.450049087	3.746144481	1.133650363	2.230966479	0.297297389	3.957774966
7.713136845	2.352748804	0.845347724	0.959881731	0.295999154	2.466659911

9.130795239	2.168655708	0.877984784	1.427378156	0.343353448	2.511523585
8.123982445	5.717770994	1.126284042	2.086130155	0.238762515	6.053690327
15.38732103	12.11724843	2.910717176	6.011191502	0.881291108	10.46270623
3.246757641	2.11617553	1.224797289	2.135300983	0.270680782	2.366653791
33.00783543	18.87479602	1.092932152	7.676041886	0.206980186	18.39927707
5.331299357	2.526897253	0.93232775	1.012872609	0.237920792	2.695308323
6.27827671	3.319338273	1.248943468	1.886424984	0.288531469	2.925623392
4.134515535	2.846067652	0.90314675	1.122631879	0.393697206	2.562857846
4.371311385	3.199407362	2.074152878	1.880895419	0.465270383	2.625217106
21.46639314	15.8109789	0.961460649	11.91406481	0.500162307	17.07512212
3.362880774	1.823255781	0.673579338	1.19561966	0.272775201	1.724332032
9.146297399	4.904598414	0.837705672	2.790380746	0.286761681	5.266828536
23.75779188	6.981581757	0.744172838	3.151233329	0.185273674	9.05276146
13.32772829	3.891998409	0.737645426	1.932468328	0.314801594	4.565536858
7.853666092	4.411288295	0.835468725	2.172443769	0.302315146	4.941743051
11.41389601	7.35334358	1.222558351	3.381781473	0.406680355	7.338548434
7.861323138	3.114159756	0.963383508	1.274809967	0.181931281	3.960110135
5.791387411	2.650716162	0.847577078	1.2118379	0.1113941	2.330571449
7.437430593	4.045107572	1.292118339	1.964116193	0.29460475	3.441049679
11.95338393	6.068292031	1.077028114	2.830891461	0.293038879	6.445601433
12.60325367	6.622086433	1.166375734	3.371129113	0.541485961	7.508926753
4.988263509	2.019277696	0.955770631	1.266166771	0.224740677	2.469819909
8.013231563	6.159734129	2.699845251	2.435770561	0.436641113	5.768036559
8.744141421	5.820882153	1.889754874	2.392328379	0.55205286	5.375565696
9.577899653	4.640296722	0.944102251	2.354726156	0.813485802	4.254188616
2.455837436	1.119992698	0.972653992	0.863832344	0.220714416	0.834850379
12.69465975	3.573449884	0.681074522	2.951743934	0.335693194	4.961880265
10.06994333	5.683231804	3.197736722	3.358397038	0.340016178	4.903929334
7.498893111	4.492153735	1.487135827	2.150334638	0.481609861	5.91577577
57.00122773	42.12567929	1.815876771	23.89462165	0.599577707	62.70677249
12.73908352	5.312801827	0.779025822	2.143238094	0.107873651	6.54810649
11.67341549	6.647522716	1.524901244	1.959944963	0.528443402	7.855611653
1.047566896	0.375305591	0.802803139	0.31175682	0.001062824	0.24275251
5.074132183	1.811199975	0.799412297	1.097219724	0.147534014	2.393469805
0.499102636	0.000537077	0.835811262	0.102204998	0.106417451	0.102260931
0.230090692	0.000537077	0.301286334	0.025103213	0.000792189	0.000323314
0.09558472	0.014467022	0.284299313	0.008178431	0.000792189	0.025193636
0.419728212	0.085077137	0.837705672	0.075115493	0.000815878	0.017375913
0.096170962	0.000594234	0.252929623	0.049445295	0.000815878	0.020269059
0.701317786	0.004019217	0.404898451	0.093084632	0.018687491	0.037306474
0.390298169	0.027007228	0.270935466	0.000634849	0.06479878	0.031734048
0.602012892	0.042428639	0.428681257	0.047930207	0.03972886	0.059452368
0.276138269	0.013031574	0.192606522	0.026707931	0.050871046	0.014874451
0.141650685	0.025619493	0.251284854	0.000605409	0.016864479	0.027891895
0.672118664	0.024671343	0.796659307	0.118564681	0.061297838	0.091926803
0.137155193	0.015663916	0.231880145	0.055537423	0.038407926	0.031480058
0.148802793	0.000470076	0.326977755	0.000569247	0.101254325	0.020530121
0.18205716	0.026209089	0.195268989	0.028841326	0.037452751	0.012113227
0.394710089	0.047884048	0.561438042	0.086472872	0.081623071	0.059984315
0.236836719	0.00108517	0.465797499	0.028331002	0.001457138	0.037396482
0.061841316	0.00108517	0.221753319	0.001287046	0.001457138	0.000634595
0.100957936	0.00108517	0.076222386	0.029560273	0.001457138	0.000634595

0.238921722	0.027177453	0.098065002	0.000989384	0.001143537	0.033587565
0.030963175	0.000856261	0.109691162	0.000989384	0.001143537	0.012106703
0.002137237	0.000856261	0.152874043	0.000989384	0.042528683	0.018371955
0.172059531	0.000991504	0.231935405	0.000991984	0.060783423	0.014149821
0.571844782	0.000991504	0.452606966	0.098579722	0.051673501	0.038551232
0.07155486	0.000991504	0.089618239	0.000991984	0.001062824	0.010725062
0.372822268	0.000842836	0.414898435	0.024602423	0.00103932	0.003025266
0.187423994	0.020274219	0.236203196	0.027549173	0.00103932	0.074657104
0.620465116	0.053154687	1.09384896	0.071133611	0.090405869	0.198875016
0.592049614	0.130422596	0.395658227	0.027691429	0.060881934	0.036217647
0.276321814	0.000837874	0.214412325	0.029666074	0.026884675	0.018338419
1.491813116	0.472784064	1.629193324	0.557186935	0.659330218	0.297264538
0.530480426	0.066882669	0.969276201	0.163573733	0.069854779	0.051376319
0.657492845	0.171307883	0.749743689	0.317212415	0.215815044	0.1956014
0.641750761	0.207234848	0.571456286	0.150842579	0.160883365	0.167176582
1.488308843	0.239051632	0.770282486	0.325032499	0.064102393	0.208045427
0.871044156	0.077293679	0.561760198	0.214551147	0.168341838	0.117043943
0.626039877	0.152197546	0.655719842	0.345231517	0.265287348	0.187979165
1.076814651	0.294007984	1.021053982	0.72778603	0.176313732	0.268212924
0.745352771	0.082394705	0.951646922	0.089794537	0.04170191	0.195894457
0.916331248	0.122591774	1.092932152	0.199433244	0.09589374	0.144572019
1.241266814	0.210539839	1.070646142	0.330082258	0.12179846	0.231646644
0.858760902	0.153055333	1.04990473	0.430271787	0.120808631	0.120981887
0.925142443	0.455591714	1.108033421	0.883699878	0.437535777	0.286962921
0.642566062	0.218958742	0.928363571	0.422620356	0.163768375	0.252512701
1.958272573	1.063714497	3.233133579	1.942425087	0.877474912	0.476002561
1.328433915	0.519283508	1.120319902	0.8012972	0.496448847	0.34219592
1.842249662	0.528970892	1.798218418	0.89824051	0.440215992	0.400952342
0.299229276	0.029944738	0.428122758	0.009432118	0.031725302	0.064494886
0.526758069	0.097530767	0.507395522	0.188082596	0.024935106	0.12313972
0.544356981	0.086696366	0.439447438	0.184948377	0.030970836	0.034404867
0.226135381	0.053681464	0.240772116	0.046878275	0.024126677	0.024769508
0.564584387	0.184972462	0.273597383	0.313206585	0.019464517	0.058844339
0.406190252	0.047402329	0.390309443	0.054579334	0.000815878	0.009660857
0.658055025	0.031826419	0.458054611	0.189816282	0.062013233	0.193757632
0.7286266	0.092548226	0.557053693	0.17950832	0.11702778	0.136892212
1.010912898	0.090620549	0.67454711	0.191028984	0.14836518	0.169754138
0.574341727	0.012819465	0.7813398	0.113938827	0.037734693	0.061565424
0.47656479	0.051693624	0.30745638	0.088496631	0.000706894	0.037000308
0.582208837	0.082508505	0.670018048	0.206455903	0.101018567	0.069017762
0.401711008	0.07046213	0.389562772	0.059831875	0.001257627	0.046832917
0.37895802	0.057366843	0.344725745	0.167483252	0.027023647	0.073924797
0.458593479	0.065494952	0.642705153	0.131055766	0.055243574	0.052356504
0.214190255	0.00108517	0.875523049	0.061521311	0.001457138	0.048244252
0.679472149	0.061546106	0.600133745	0.231160667	0.113864948	0.000634595
0.399479505	0.042782367	0.902390299	0.114379951	0.001457138	0.000634595
0.611599911	0.062546555	0.69598182	0.100211314	0.02945969	0.02821735
0.761906584	0.113543865	1.081305991	0.147459852	0.028370607	0.030007422
0.821617454	0.11189879	0.657781578	0.118165758	0.054508594	0.02150458
0.339567318	0.024802832	0.500579044	0.000991984	0.009160533	0.000450784
0.692450388	0.000991504	0.388644195	0.072998471	0.038514725	0.042832181
0.813055995	0.057186239	0.764425476	0.034152866	0.021307095	0.057387409

0.591397075	0.042944165	0.620717058	0.146401457	0.09210359	0.117979354
1.042207615	0.083426212	0.367033639	0.217123477	0.007968124	0.062218043
0.77201446	0.413738263	0.813311825	0.82051125	0.254129511	0.282602133
0.609414643	0.234251349	0.91417911	0.501606141	0.173609687	0.169221662
0.832002742	0.261617067	1.164771269	0.52233991	0.233552223	0.120380843
2.405789515	0.570626644	1.584239841	1.274333837	0.66029975	0.372314758
1.146112198	0.195724878	1.138301295	0.738225648	0.077611034	0.225176828
3.902271819	0.658321249	0.671283404	0.56939185	0.11911694	1.083601446
3.636590598	0.768680723	0.570108517	0.760392335	0.124688033	1.064455802
0.763133475	0.401456814	0.611879697	0.320804911	0.149718982	0.346421763
0.517226179	0.243861801	0.595065812	0.331135094	0.317198113	0.199652161
4.019237497	1.88611164	0.971687908	1.35324254	0.209158351	2.490461158
1.340484325	0.25255266	0.546502615	0.290150437	0.277770568	0.322684167
5.652914307	2.653573522	0.980299829	1.328374714	0.218688735	2.636659319
1.453986939	0.53844442	0.722828623	0.518674311	0.230679651	0.543909989
1.196668352	0.547347356	1.029230856	0.992305333	0.362383941	0.506310525

2,4-Dimethylpentane ng	Cyclohexane ng	Benzene ng	2-Methylhexane ng	3-Methylhexane ng
11.03918816	14.73961618	11.70152964	21.89314868	29.66109304
2.353906001	3.743825149	1.735584312	1.160913935	1.776269745
1.142161922	1.010818388	1.600577916	0.097934744	0.339755641
1.366061557	3.31754514	3.087126325	1.243212892	2.004846924
3.610863759	6.816430148	4.519574313	2.284309281	2.971371318
4.834371092	6.540735955	5.239835607	6.975157786	8.346418066
1.4821065	1.693857616	2.57294761	0.891381158	1.686665146
2.071001423	2.546499585	3.478862208	0.663538153	0.902476647
4.313359383	6.633348682	9.343169027	7.448267186	9.449063066
1.275799109	1.840708934	1.555802323	0.588432706	0.716003669
3.939867103	6.140293353	4.266240538	8.595597405	11.69116654
3.816803455	5.730330947	4.713448236	4.956252451	7.213215551
0.595126886	1.423225411	1.764317182	0.575529532	0.798110099
4.652124949	7.45089371	5.459284455	8.104975559	11.25479946
5.061233408	7.701535334	8.222351139	8.929616876	13.07736795
12.52329206	14.10056	7.422487952	20.58382134	27.16871945
0.305615844	0.859590091	0.638040817	0.463579067	0.537852183
1.317073576	3.021470251	4.360943255	0.773768745	1.019680368
2.887570623	3.856348091	2.935171123	1.680568453	2.624340304
0.309058929	0.504528164	0.585357679	0.245082571	0.332584998
0.428336873	0.583371029	1.106187727	0.233706379	0.624857561
0.524316617	0.564274543	0.745035823	0.52203929	0.495282205
0.599818072	1.266967515	1.30506107	0.977121234	1.242533575
0.409713282	0.678956648	0.612075668	0.290488778	0.807947698
1.137479417	1.539915589	1.114083376	1.154123631	1.567102865
0.781251639	1.191217457	1.195084451	0.398550025	0.964369596
2.903647929	4.499224095	3.609330415	6.135055991	8.122398364
2.806294906	5.957360181	3.287777062	4.412546734	5.789253554
2.320973475	3.910604317	2.511793051	4.223234158	5.232701926
0.498656326	1.143745553	1.454646823	0.816283286	1.567872003
1.262381594	3.85331269	1.803087322	1.366089731	2.142170805
2.154734277	5.106016737	4.779554407	4.818601011	8.507819639
2.869136488	4.537757007	6.759881926	4.114629934	5.789187315
0.062407708	0.424243777	0.895014047	0.142980708	0.094259409
2.673101108	4.69892219	3.419811804	4.540640729	6.024577669
0.541605304	1.417842334	1.908107139	0.307241923	0.355466769
1.91696464	11.69440338	3.878933045	3.653897256	4.762581645
0.768757412	2.292847644	2.972869825	0.623745241	1.069231067
0.806097484	1.734090995	1.332729314	0.830741081	1.184648272
1.534228898	3.596613156	4.440286267	2.851287578	3.886322071
0.389133342	1.028613213	1.555277633	0.575668787	0.759426989
3.334225747	5.032645624	4.743374442	2.571918101	3.957971887
2.24784522	5.137338772	5.471996455	2.871411582	4.343721237
1.469800811	3.130831246	1.831111678	1.435744416	1.723780483
2.219028761	4.32980118	3.383725076	2.138127939	1.996242849
0.22302238	0.814267991	0.85419867	0.577617437	0.500959409
1.734497078	3.568438084	2.323192275	1.432203178	1.976460997
0.628805182	27.22355073	1.316708361	0.884982987	0.881037091
1.878978229	2.292288497	1.604420272	1.097168249	1.850564994
4.059445379	6.765599314	3.907202779	3.418114712	4.105107801

0.487150829	0.696047067	0.784793911	0.391046966	0.393501614
0.970739925	1.088892893	1.332198474	0.62250897	0.986353906
1.109636541	2.747286017	4.072367421	0.811160866	1.060070956
1.037283621	4.288389491	6.04375543	0.971663369	1.352258066
0.258443088	1.290886742	1.210198565	0.500883193	0.756389694
0.529158614	3.709124699	1.510620342	0.878817535	1.129976965
2.445949	4.903419522	3.257421655	4.781022995	6.404239529
1.34130519	2.5741265	3.848300358	1.515830541	2.647105759
1.830006556	2.705390301	2.126756735	2.44712915	3.557882412
3.236249784	5.810175626	2.218311334	4.120489555	4.593239404
1.265203948	3.117494539	4.291005715	0.801103467	1.183157788
0.555436321	1.024984933	1.861364966	0.74388487	1.81195011
0.567460305	0.789531868	1.034337965	0.442894604	0.55190898
1.044198063	1.608149951	1.681684683	1.421838993	2.119693429
0.269768855	0.682946695	0.745301238	0.142333238	0.155521553
2.722487543	4.477708505	4.478095106	3.003790512	3.437653868
0.181095648	0.77243219	0.716465697	0.185728338	0.184251539
1.041633885	1.23531782	1.075505882	0.434397977	0.411823391
4.660759774	8.249193075	6.368707338	9.74652872	13.60928826
0.350403319	0.36289758	1.365740493	0.339359221	0.355893757
69.08560266	67.68529915	66.24585661	165.6432521	206.2922612
0.121529489	0.68499688	1.118669572	0.319261036	0.571114706
0.141226369	0.608427197	1.012742422	0.136879799	0.332249025
0.09804316	0.818068736	1.092892983	0.180805833	0.417490826
0.821367474	1.28216285	0.805486051	0.757886338	1.039969318
3.881531113	9.041614808	7.443304397	7.400707824	8.905913523
1.436805628	1.637817989	1.310634781	1.171214154	1.719975014
2.515397839	3.152536146	1.936748314	2.726784112	3.071245322
5.686458939	9.305906968	6.433406001	10.07499132	12.16705991
0.647276129	1.406517175	1.69973289	0.502253119	0.398683588
0.670718415	1.203403637	1.356100825	0.655021044	1.045731858
7.803588596	12.10215987	8.768777667	16.0054066	19.78000521
7.887415062	12.77764366	6.915608457	17.10496538	20.34717891
1.588623926	2.623999929	2.573221494	1.111340695	1.707847999
0.280890177	0.624356153	0.952858476	0.402906382	0.638509139
1.877251025	2.670675423	1.205676899	1.52287958	1.73664186
1.022738649	1.521121628	0.825437991	0.839082556	1.047997282
6.487804612	9.345334906	9.544415015	11.66549013	15.82479525
1.266401201	3.000007165	0.835796865	1.359259838	1.712958016
3.810812227	7.4122211	5.135847086	8.014991275	11.11533771
3.593753467	7.751164758	9.401053258	5.948948423	7.703801315
1.154604828	1.974318343	1.884486754	0.745271831	1.023671644
1.493777152	3.496265023	1.394363757	1.716149097	2.170250462
4.531519367	7.013826098	4.757810263	9.303615684	13.66083338
4.742017447	9.017466982	5.104293739	10.22143788	11.88927429
49.66282057	67.01793239	15.4163702	64.08275965	81.55262505
4.202316057	8.933957679	4.241875927	5.184980367	6.844143025
1.082230156	1.568450228	1.104235261	0.705271987	0.812820324
5.065892428	12.37569883	6.421233038	5.640084945	6.007039892
140.3694288	138.9691336	48.50100129	256.1342228	294.7423038
241.974726	234.6310194	95.33297787	395.2910083	486.4898914
2.575828555	15.93272277	1.992990952	3.680721801	4.404042049

2.352911381	4.458479193	2.37320784	2.159268032	2.772439641
2.138977939	4.049004831	1.285904611	2.078701302	2.78369864
1.386989401	3.940526263	1.862960197	1.567571596	2.321513239
1.213726609	1.823796144	1.964205555	0.882823906	1.303102773
1.459753709	2.231732624	1.427291638	1.460935981	1.741678112
177.0176927	206.835752	67.62193422	307.1983228	397.7278853
5.468720406	9.385310091	2.324922472	5.91878504	7.122414463
88.58772145	108.9282583	14.32767857	72.6747852	106.0424505
1.129766588	2.479333123	1.638783442	1.376321106	1.654947885
1.844029189	1.987524909	2.389831047	0.919778312	0.980667638
0.277772911	0.783294008	0.898171682	0.503234638	0.741343003
2.152978617	2.599495718	1.592260664	0.703630649	1.218933315
74.76391571	76.46634342	20.17046334	91.88994134	116.6517704
0.224467982	1.142801282	1.087155512	0.646409511	0.992709565
0.757292535	1.457612129	2.737239377	0.712363416	1.240312917
2.432979343	5.675470363	2.054332243	3.458001617	4.462417375
6.569053372	16.53683638	3.514561629	5.933073494	8.014561902
57.22119533	82.1620787	20.01335641	65.12527766	88.03770259
1.215846466	1.692140067	1.180763664	1.081328457	1.445557304
1.849244169	2.959373569	3.454498986	0.751399296	1.10238771
1.724636362	4.512369803	7.912083574	1.246566591	1.583992671
20.69316027	29.82412719	11.30471621	25.69929361	37.82325466
0.004244705	0.558027126	1.035045939	0.001818459	0.227841463
0.293656385	1.608554253	0.781813126	0.24086474	1.221277638
1.186009068	2.85531192	2.85184415	1.57952391	1.982979207
0.725639142	1.749415436	1.137567067	0.706663218	1.175848917
0.36290018	0.876145108	0.753238554	0.283718257	0.557111017
62.96128113	95.51371829	24.12369699	104.17381	134.927583
1.091256985	1.939226018	0.855069186	0.780709961	0.911305397
97.24130427	85.59769041	36.68925343	124.1805332	178.5332141
0.533927184	0.737771639	0.901858042	0.33434193	0.437421896
1.292613121	1.613959906	1.332635574	0.642374227	0.875830741
0.921091657	2.317914058	1.358176785	0.584618171	1.103506832
2.711701621	4.015656285	2.924091402	1.122219825	1.022688447
2.448525122	3.031666362	3.505615248	1.454815945	1.78659475
0.433714871	0.76865436	0.746893727	0.386362686	0.270995761
0.703105913	1.682588785	1.330741926	0.823659802	1.069120464
0.628805182	1.007596975	0.786879725	0.357773939	0.694902769
1.262677805	2.116366393	1.511573838	1.542349791	1.874672595
1.032267617	1.227648192	1.246877963	0.52360102	0.858296154
1.526806558	2.851692025	1.954802187	0.972950928	1.522701626
321.6302491	273.2094518	117.8517358	636.8497562	738.6270543
18.81496894	30.06087933	10.04735513	18.46256885	27.16717652
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12.09522159	24.31678828	9.403997826	21.10619008	27.11107068
1.109636541	1.773070766	1.435507133	0.329653358	0.602646998
2.452185171	5.256658362	5.815551441	1.781005775	2.512946173
1.557635651	2.918733612	1.123113687	1.305312316	1.79311713
0.026071143	1.051790722	1.8221317	0.257362636	0.366051808
1.007769446	1.576602816	1.320862204	0.725488661	1.446271182
2.074946463	3.005466203	1.418798087	1.442875213	2.03209316
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51.51822783	71.91489615	17.73681577	47.46979409	68.05402655
1.081432499	1.269491675	0.784421135	0.536488125	0.738166127
0.37945247	0.844303368	0.870260668	0.393848169	0.628034437
15.59618949	18.0780396	11.21892728	30.61689199	43.5116204
1.130316902	2.561012891	2.69553564	0.859396981	1.013495354
4.118185864	5.921553016	5.623360005	5.90482013	7.922272415
7.56968094	15.40488639	6.821177036	14.86701361	20.12811834
3.285512677	7.702734106	5.358210611	4.595164018	5.953659223
0.030321384	1.057643025	0.718494343	0.233726506	0.424221153
1.665467176	3.460754095	2.300897431	2.839847949	3.356599857
5.225924772	9.74952807	10.45477511	12.78849453	22.14615251
1.592370433	2.959066824	3.412419597	1.037143772	1.541987707
18.45914554	33.43002146	13.66872838	37.06266801	47.9385115
1.206480199	2.056926772	1.525417265	1.362276358	1.60756038
5.232102111	6.914677717	5.861751488	6.678610982	9.285349017
2.161839517	2.980637654	4.523235288	1.376448804	1.813921441
0.659490157	0.814926309	1.214178833	0.475247969	0.509218097
1.266424313	2.838270175	3.729147664	0.987957047	1.206409906
5.687024252	11.43618683	5.832141665	11.52009807	16.97488453
1.8252523	2.842257132	4.285342375	0.609635715	0.810229973
5.726889941	14.4019745	5.025819443	6.599485607	9.134727658
1.25673291	1.656902573	2.780342397	0.816365047	1.345646729
1.833918754	2.53707745	5.437969653	0.499834421	0.803185016
19.12551367	29.72601192	17.40635105	30.64072172	42.61512327
1.909538269	4.543092766	4.87770666	2.329104747	2.873646122
1.009146374	3.446976726	3.955075478	0.981908209	1.408680405
0.104734872	0.792909135	1.282389618	0.244279687	0.370912393
0.004244705	0.950488204	1.196997157	0.128171493	0.127087287
8.968014992	18.8008757	8.386366901	19.45769583	25.95530669
0.700300612	2.400037694	1.914381304	1.296815587	1.899931217
8.14964507	14.63186691	11.57032104	17.22881803	24.21949267
23.68622689	40.37572424	14.31360736	52.96164196	72.89518046
3.417392554	6.285746701	3.377840962	4.007390953	5.0925627
1.370508409	3.036302853	5.080383425	1.000340134	1.575603569
0.109558682	0.571598279	0.969710768	0.124329503	0.257295028
3.209501741	5.043908353	2.737037832	4.908086637	7.314587314
4.667162003	7.19851406	7.558413819	6.42864054	10.56811836
0.538672005	1.129564918	1.158564656	0.493201508	0.753895582
1.553368544	2.540681973	2.271400285	1.432179018	2.009148961
3.769354287	5.53077162	3.810344073	6.427302444	8.292991536
0.723454508	1.550431499	1.33010457	0.609760409	0.846164861
0.080847459	0.654871643	0.935275364	0.358994042	0.619590893
2.021560055	2.629293877	1.859722547	1.75206663	2.370229208
1.721292811	2.602311748	3.662300435	1.541301997	1.987147516
0.285594416	0.706797657	0.715696847	0.309839361	0.474485445
0.741197053	0.852750817	1.453758841	0.586368355	0.826059688
4.163105275	7.512157089	3.63239778	7.01391727	8.978981663
6.221440676	12.49577045	7.860276012	12.9298532	19.4397144
0.645118945	0.794476541	1.098302934	0.396726871	0.410897206
0.632175838	1.035117293	0.687175395	0.533345674	0.701803386
5.740314449	13.16187733	17.80270059	21.69568713	32.85131236
6.502373229	11.89700566	8.680883233	16.71488178	22.04382736

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2.010036721	2.663098024	1.43980981	2.865210831	3.340738816
0.379230931	0.500861142	0.681012479	0.165287276	0.18620059
4.498158637	9.161124131	8.611454016	7.539400253	11.21685186
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3.106154218	7.61467359	7.147471644	7.353706909	11.34332178
0.715715086	2.592680138	3.736686714	0.486740914	0.70138609
0.462479866	2.779000043	2.612843413	1.931263437	2.730575193
0.116793692	1.788927779	2.090673425	0.292088943	0.600631914
0.731793513	1.209155732	1.599912158	0.684807832	0.790049765
1.736487624	2.774062553	3.689969962	1.465083174	1.672134101
2.33081711	2.997565212	2.363537695	0.938913101	1.4352251
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0.093524435	0.711604339	1.002412987	0.211089016	0.558965527
0.172894057	0.868354375	1.229543121	0.21845672	0.377809298
2.38675328	6.340990079	3.02800347	5.032750101	6.697460055
6.474763809	10.86669762	19.09983351	23.75026092	36.25578936
0.501086451	0.889601829	0.683599541	0.443107011	0.768745833
0.020313382	0.807445009	0.778860455	0.364040148	0.515959803
2.319886369	5.370064304	5.571180603	3.53457572	5.644370533
4.42348792	7.681315579	6.315697511	8.564164666	13.6203478
13.09436061	16.54289036	9.212701175	29.79967867	41.9908502
0.720572862	1.186339406	1.169566125	0.74405709	1.233348223
5.870074191	12.27781155	5.346108882	12.4302452	16.58588556
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8.10079152	11.31450544	23.73569802	12.96905724	19.09783754
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3.319348989	4.44717918	3.989151547	5.10391626	6.574766294
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6.668066858	17.05123103	6.061363701	12.00549552	16.06608503
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2.993603397	5.418844022	3.918792446	3.832848499	5.098202729
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8.337399592	14.84209612	8.615220286	17.11617468	24.2190592
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1.668634383	6.380319838	1.621299057	2.260539957	3.328440419
2.498548419	4.472503942	2.493293027	3.886361715	4.563125142
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0.342300323	0.508282586	1.083806254	0.353593949	0.477662321
0.839265543	1.766379486	1.627805477	0.297796014	0.702913715
0.640804576	1.102145082	1.280908322	0.654889299	0.886117988
0.628805182	0.668625141	0.660331436	0.347553409	0.588679517
0.77359635	0.46986662	0.99541358	0.309226418	0.370385862
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1.041633885	1.708438028	1.193652372	1.240560057	1.565131003
17.11789599	36.35838149	41.08754534	65.72268866	94.73329286
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0.30357198	0.564225328	0.669750258	0.265162298	0.512111009
5.719148038	19.19950515	8.935231001	10.84030809	19.12896449
0.947971206	2.19354203	1.808014123	0.748692811	1.374198806
1.643256764	1.610186943	1.748393779	0.664914987	1.258465382
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0.109082798	1.287085677	1.176982398	0.387369345	0.612118187
0.305118179	0.756456914	1.691094849	0.27252004	0.249161448
1.170163191	3.015810327	4.302623708	0.725239976	1.32284519
0.908782684	2.108876067	1.769706444	0.64644801	1.289434946
4.19181145	17.24164183	5.803709396	6.331705692	8.746202649
5.772316929	9.073412564	3.962874365	10.22480738	13.68434836
2.455846415	4.022892932	4.238145556	2.82515311	5.020548075
3.16307944	2.822775976	4.330799706	2.81072651	4.734406097
0.476775604	2.321322258	2.493777653	1.0764453	1.434693975
5.119005736	7.293654352	8.493402665	7.29899993	10.14652986
17.71940238	10.00056888	61.09650136	111.0527356	195.9937497
3.832750498	7.75400063	6.448896736	6.454637166	9.351292727
0.965981393	0.986382066	0.900641539	1.042053274	1.154022697
5.092334344	9.296277973	4.017070212	10.17343097	12.91120472
0.598454596	1.008559336	1.335532	0.206578534	0.667215904
0.352077204	0.551458441	0.85419867	0.254708581	0.341056666
0.600409972	0.598388717	1.197293489	0.281836425	0.433186061
1.745283	3.717327682	2.222600063	2.051227686	3.012397888
3.186282194	5.763872889	5.28415988	6.200670503	8.407486157
3.040721221	6.087746702	6.794722834	5.119689584	7.071221463
1.204159561	2.01860876	3.647757396	0.540891783	0.538004204
1.030791188	1.819358262	2.721049689	0.505971636	0.304118145
2.303429351	4.123776364	3.248662499	2.635248887	3.802663783
2.427841523	6.722937005	6.720521332	3.792434023	5.478276731
3.504962324	9.432233269	12.7996953	4.511894079	7.039484945
0.685715707	1.823961807	2.802831442	0.822056061	0.873725018
5.505028716	5.154025968	19.65175845	13.44124209	19.16234377
4.988556984	9.528141304	14.14916852	5.779908553	7.603047139
0.398166159	1.60459	2.495060709	0.339898199	0.505922989
3.207871226	7.010840452	5.919102069	5.15668075	7.830751577
0.320676542	0.716165618	0.80200878	0.156335278	0.451141558
0.476260178	1.11299687	1.530550042	0.277861868	0.39647025
2.185231634	4.052639366	4.380379955	2.816367903	4.206341908
2.968287172	3.552615967	5.723558834	2.818877962	4.675171813

0.478055406	0.631091148	1.041320696	0.306308789	0.47039953
5.96698644	10.13927902	10.36949584	9.044868765	11.99675219
4.898959503	12.60189352	8.508239404	6.546149063	9.24230778
0.863828619	0.812497239	0.946407509	0.366289172	0.750696851
3.289052146	5.251056355	3.63424096	4.028104213	5.475946738
1.76776952	3.539509162	1.939568467	1.914757633	2.331898765
3.697534902	5.712228526	6.171441585	4.130660088	5.09537496
1.154214468	1.368058607	1.86641339	0.423108433	0.374256352
1.850985037	3.840395098	4.753861092	2.299968127	2.980198349
1.298269623	1.644684241	4.340883937	0.403552065	0.71847207
1.198067888	2.493573805	2.135823461	0.819698233	1.311956396
0.972969914	1.963354925	2.577508602	1.210709649	1.328077064
1.071104821	3.096503971	1.286042697	1.738297513	2.142902451
0.325474731	0.882519344	1.293269387	0.16072536	0.367521494
1.494300277	1.19344041	1.555401142	0.50083837	0.920123514
2.466850313	3.426906135	4.859089282	2.562410371	3.734265944
1.321968332	1.0355495	1.7842254	0.949843748	1.166480638
1.618764216	1.414270453	2.206689871	1.086745411	1.838405932
0.186874616	4.596293418	1.381446359	0.436781256	0.776132111
3.078421565	11.05984222	1.788170544	9.651204326	16.06432379
1.053831537	1.289762198	1.803079517	0.512133636	0.662928425
2.352206712	1.951266242	2.53100429	1.390654326	1.679951291
0.297675992	1.028782207	1.432562566	0.266476841	0.397108479
2.526455457	1.749588406	2.919350373	0.674752621	0.65556736
1.589303339	1.990219906	4.831062621	0.632616474	1.046516529
1.225401554	1.73616204	3.825174677	0.963930453	0.680707136
0.751279582	1.643725538	3.299762741	0.578623458	0.53621861
0.406827735	0.941918343	1.334478755	0.385972343	0.403535222
1.798308451	2.61270019	1.917897808	0.948473276	1.369579407
1.609479756	6.199183326	3.337374057	1.75496512	2.379171395
1.182669095	6.803728923	3.097074011	1.32395097	1.611852037
0.372754591	1.803161792	1.510856825	0.349898861	0.642912237
1.742710969	6.135725	4.131006846	2.322446591	2.704814361
2.372358877	4.735390863	3.167938467	2.521435957	3.552331539
1.477792132	2.736084799	4.027420761	0.384478289	0.445317403
0.487644482	0.616468314	0.947281908	0.432530419	0.33428451
4.353367469	6.994951437	7.284420397	10.15074587	14.03615341
3.151219744	5.771897765	4.359529973	5.061773243	6.84610613
0.160139032	0.744881504	1.570789752	0.397804352	0.449322407
0.376628869	0.67255883	1.526610664	0.303511269	0.386751486
0.685715707	1.168687923	1.376719763	0.3618684	0.393501614
4.055698872	6.580569526	4.867888889	6.957057864	8.86201955
2.09911225	4.116240412	2.819220252	2.744324317	3.504045526
2.834047805	4.896902374	3.261629808	3.976816609	5.398545771
0.99590952	2.583249058	3.144855756	1.012363238	1.233244991
2.881920752	4.719101149	3.653769125	5.370353052	6.500522101
0.501534164	0.632403243	1.376343672	0.217673536	0.344224777
2.489903481	2.53401362	2.423673384	3.476340877	3.897743363
0.432408266	0.991623488	1.105350747	0.521813911	0.467585573
0.750973934	1.194872535	2.172862412	0.396473444	0.641800898
1.243728718	2.451665346	2.124149793	1.465835565	1.823598654
0.815509583	1.58665336	1.295288709	0.919903134	0.863495637

1.368002198	3.081770058	1.982440996	0.430169366	0.626686002
1.805028496	3.795831017	3.911888487	1.606843485	1.704897682
3.762576947	4.850322398	7.536160443	3.915347565	4.477652603
0.812185647	2.233915213	2.330655684	0.35526546	0.501892822
1.994756458	19.27752933	2.024732792	3.452243244	4.958487165
0.604726155	1.670091611	1.653946915	0.338939557	0.699670581
0.688213694	1.92931054	1.854980291	0.799535405	1.321347853
0.847365284	1.540428969	2.156003343	0.689387645	0.791672388
0.697519694	1.934528653	1.90232081	0.64066053	1.12006124
2.253608512	14.94848707	2.974590464	3.099597092	3.828910766
0.757292535	1.231255988	1.426886467	0.669964477	0.785078056
1.775483582	2.543242552	2.430154443	1.745013127	1.813242644
1.749031588	3.491586513	4.796293914	1.567203418	2.101142701
1.381338227	2.245409944	1.238908246	1.034884105	1.17047109
1.416284598	2.523815407	2.274155731	1.467319194	1.845743474
1.853263776	4.45786132	3.460388121	2.334227167	2.708409274
0.407803378	2.286005725	1.198019304	0.635764354	0.826247476
0.964586237	1.570936829	2.340482463	0.423026538	0.345476201
1.327325199	2.24731409	2.725796434	1.276446636	1.587361059
1.977763346	3.602497165	2.357878111	1.686726884	2.538570581
2.414132979	3.585328992	4.251298474	2.285420843	4.002957495
0.578904666	3.176869544	1.389254128	0.614227814	0.724101342
3.210314971	3.700308623	3.551893071	1.303824668	1.560303063
1.786781867	2.972124436	1.538009804	0.973431066	1.481432378
1.473649723	1.311966414	2.062495856	1.163242938	1.325319389
0.312912544	0.579108562	1.282500811	0.195096362	0.546357336
0.996498543	1.535979777	3.076074268	2.703385759	3.113674433
0.964830489	1.526284351	2.471066549	1.580698762	2.064640487
1.995114801	3.997923253	4.928062986	1.053384392	1.896034019
12.4610058	19.52697922	16.33305615	35.46604164	49.70015692
1.232396645	2.290567004	2.112571101	1.153921684	1.389665677
1.74605712	2.709041056	2.932049274	1.194857633	1.846995677
0.374415702	0.211099822	0.807767215	0.183315892	0.048599584
0.671749269	0.56301521	1.126288515	0.78160462	1.087591074
0.305148177	0.078401251	0.382607862	0.023684358	0.027604932
0.045083152	0.000496992	0.158266507	0.000931973	0.027604932
0.048993904	0.033348185	0.159319753	0.000931973	0.037135559
0.002277987	0.04508388	0.350098588	0.062246353	0.001185831
0.002277987	0.028052229	0.176251889	0.001003442	0.032275041
0.073465073	0.072004877	0.296750212	0.001003442	0.037826686
0.139182416	0.032499478	0.162509177	0.057971702	0.001040793
0.002011835	0.076777366	0.253358046	0.000907072	0.001040793
0.095364036	0.018724135	0.109575554	0.034123797	0.001040793
0.045062988	0.036459017	0.164703846	0.065080706	0.029958997
0.163077962	0.114593357	0.323664578	0.008390922	0.064673942
0.131232652	0.015846891	0.165897244	0.000887862	0.013565829
0.001830355	0.132313947	0.202942853	0.02125223	0.063464498
0.09716135	0.058529446	0.150356622	0.000806472	0.000940502
0.126627294	0.135806705	0.293508031	0.02200948	0.021194754
0.004244705	0.034745689	0.702800562	0.001818459	0.04245378
0.152970152	0.066459716	0.48931941	0.001818459	0.098876118
0.004244705	0.001049536	0.623787998	0.001818459	0.062604615

0.077966071	0.062382329	0.392711789	0.001422262	0.001621915
0.13397618	0.025892099	0.482026372	0.001422262	0.001621915
0.003285926	0.053259771	0.40747453	0.001422262	0.001621915
0.253502715	0.05316042	0.485522539	0.001336606	0.066235819
0.003040098	0.056701662	0.659948556	0.001336606	0.001569625
0.003040098	0.006416023	0.392561027	0.001336606	0.039781467
0.083733452	0.045108659	0.535805007	0.054159272	0.08799431
0.077543812	0.025079124	0.398886219	0.045146675	0.08799431
0.077965813	0.234765382	0.459382191	0.001265716	0.035947824
0.498686123	0.160746659	0.478456066	0.199739571	0.048853936
0.077965813	0.028046427	0.333494618	0.001265716	0.144932771
1.226006635	0.585247759	0.952754614	0.476940604	0.465721445
0.024937659	0.119955947	0.525828272	0.085708755	0.001663135
0.062681537	24.97913679	0.941618071	0.197827617	0.128205995
0.461758269	0.294515162	0.358591862	0.034922593	0.097784448
0.381136078	0.390166421	0.911950797	0.393545797	0.172557236
0.397234658	0.312086291	0.619866184	0.057577646	0.019351653
0.429079969	0.291474164	0.989581161	0.06091234	0.196783594
0.165028972	0.458920793	1.871303138	0.100851918	0.121042037
0.108754478	0.312243421	0.794572918	0.051335189	0.070664949
0.003285926	0.470616778	0.831165193	0.12829068	0.123113711
0.266327838	0.427815848	1.466037369	0.530539411	0.166949047
0.00326813	0.220367091	0.853130437	0.063171869	0.028405829
2.000023668	0.368132449	1.742100263	79.33494977	0.357166614
0.18746836	0.327455493	0.818924729	0.214001166	0.199425244
1.817254507	1.187249021	1.876425455	1.453044307	2.662990827
0.52951045	0.51809224	1.308860624	0.528314483	0.640132622
0.4211666	0.526486679	0.575268881	0.28066604	0.769383762
0.052904656	0.045550057	0.426317563	0.027184725	0.093260363
0.05094928	0.052120296	0.408675696	0.033310368	0.048784103
0.129164325	0.042264938	0.404726024	0.000931973	0.02866389
0.002277987	0.005526496	0.441666697	0.085801319	0.001185831
0.198581769	0.125297464	0.588971916	0.025500606	0.061143593
0.095036917	0.032447494	0.310551782	0.001003442	0.001185831
0.038209627	0.118103396	0.419791205	0.02731011	0.065359459
0.002011835	0.077269343	0.426684886	0.000907072	0.064384934
0.102984624	0.091536663	0.415851959	0.028161821	0.080951863
0.076908298	0.120345579	0.338224045	0.111766411	0.030923301
0.071288538	0.060905958	0.41913649	0.025064388	0.001029877
0.001978156	0.057550495	0.415794973	0.04590622	0.051173686
0.046895916	0.035389928	0.221370507	0.001563722	0.036165288
0.111027677	0.06726134	0.29890149	0.050784992	0.000940502
0.001830355	0.105681672	0.320025874	0.093191008	0.157690802
0.004244705	0.030781436	1.182274319	0.042797822	0.002152109
0.004244705	0.032763563	0.79898977	0.001818459	0.002152109
0.004244705	0.001049536	0.776414752	0.053042662	0.002152109
0.003285926	0.066183395	0.741481542	0.038815059	0.039588102
0.003285926	0.091270428	0.709372581	0.032137774	0.001621915
0.003285926	0.024371673	0.511551853	0.010770461	0.001621915
0.106679802	0.067325389	0.596550776	0.001336606	0.001569625
0.003040098	0.000750035	0.573556762	0.001336606	0.138250444
0.003040098	0.09848832	0.697067464	0.084168557	0.091220484

0.065164532	0.028655827	0.704320439	0.037421591	0.043302949
0.00326813	0.024363783	0.605113773	0.0567343	0.037344101
0.345958887	0.258771454	0.713382622	0.1284316	0.192255182
3.815460622	0.144742611	0.536949282	0.392271095	0.078968198
0.003043018	0.104732491	0.491171982	0.033354304	0.106214434
1.50150957	0.494108126	1.001193049	0.503286183	0.563827732
0.003268889	0.146338472	0.629052247	0.083074197	0.001663135
0.600227978	0.491513588	0.636942161	0.627766295	0.384029215
0.362084609	0.465930808	0.86369503	0.430169366	0.602322871
0.49755153	0.639200372	0.324969879	0.142412278	0.037045908
0.60328227	0.391651188	0.689253134	0.243883819	0.29418685
0.868330939	0.678915175	1.102430557	0.590358815	0.630341956
0.199321307	0.382432055	1.140444614	0.097575168	0.038069454
0.420477793	0.891726574	0.893830523	0.779454932	1.034759039
0.275612298	0.354135772	0.744410803	0.18934823	0.119278262
0.184586714	0.555513178	0.9451302	0.261539814	0.433169274

cis-1,3-Dimethylcyclopentane ng	trans-1,3-Dimethylcyclopentane ng	trans-1,2-Dimethylcyclopentane ng
7.237457494	11.39311252	8.016945764
0.715705596	0.940544811	0.91044365
0.139696068	0.161229742	0.348796649
0.790752599	0.661099714	0.791593723
1.722257603	2.700708931	1.992535847
2.000532668	3.133920399	2.994102902
0.564421064	0.96407579	0.945440002
0.530451799	0.445260755	0.491469271
2.619331955	3.325579687	2.926288668
0.337529102	0.500550462	0.524854279
2.90996699	4.596641352	3.18152061
2.067447207	2.994509462	2.527845415
0.4108778	0.444334163	0.397951388
3.308719271	4.205720043	3.251382666
3.260360768	5.684547779	4.101299424
5.803014745	9.148987679	6.880567563
0.415867031	0.24340614	0.188641375
0.3559234	0.389982096	0.450003435
1.302652183	1.046220853	0.785804057
0.263033092	0.064658992	0.234549882
0.224493002	0.109441771	0.15787391
0.192798895	0.168277394	0.152267169
0.254127505	0.490963938	0.283099801
0.349721102	0.155035725	0.314645045
0.231198434	0.549800249	0.408914112
0.396795586	0.397526776	0.358771463
2.23176089	3.075471267	2.130399513
1.799971111	2.835348577	2.535251101
1.635416466	2.086897801	1.513760181
0.399960036	0.305143792	0.570245816
0.851682559	1.051441099	0.702867184
1.854752212	2.680264585	2.319260963
1.564796381	2.509128312	2.011829588
0.181270873	0.169629588	0.228061169
1.772024876	2.652502261	1.868569049
0.265363596	0.206042019	0.403642683
1.617854885	2.474991658	2.264282611
0.549677087	0.526926572	0.56524756
0.424539107	0.516685576	0.42984888
1.460681582	1.939046181	1.5191531
0.374483915	0.377863181	0.345115512
1.038139015	1.051010917	1.104235681
1.016254832	1.520437181	1.880878005
0.694652492	0.740614775	0.632791458
0.888755679	0.982033997	0.671664929
0.356738408	0.269485145	0.247968177
0.650573159	0.773213573	0.75673909
0.42568038	0.287354945	0.466925846
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1.729951388	2.029600261	1.742823098

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0.655162791	0.853020783	0.713068828
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0.411903635	0.455223557	0.35659247
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0.084743726	0.08416862	0.260455692
0.121843266	0.040992641	0.212566706
0.060733306	0.033652312	0.058779975
0.15992062	0.022929095	0.136924611
0.038309072	0.001590324	0.053362531
0.125651192	0.16743417	0.403618967
0.172260939	0.166215922	0.350356751
0.1318298	0.022490671	0.115777848
0.034484735	0.001146198	0.199791429
0.274095585	0.132276657	0.298645027
0.304543144	0.155268964	0.232477417
1.725299322	0.471933668	0.637711787
0.306224073	0.432521381	0.572400376
0.520631085	0.45332231	0.497635998
0.027258423	0.000788471	0.078003105
0.022724295	0.066127279	0.126564554
0.023479983	0.000788471	0.074808273
0.021954912	0.000868585	0.000677436
0.017574297	0.021895778	0.093769886
0.00078194	0.085786097	0.018289521
0.028858632	0.030758005	0.113277393
0.019036312	0.024178596	0.077020059
0.009213991	0.019061278	0.170731321
0.096623452	0.00577195	0.044095077
0.0281059	0.017210047	0.055108751
0.040504314	0.050094576	0.050388605
0.020985803	0.022410116	0.009418551
0.026371228	0.017148599	0.026698485
0.014403618	0.000706359	0.068170325
0.008285219	0.001590324	0.001220797
0.042403234	0.001590324	0.059030111
0.035579631	0.001590324	0.03409276
0.001072182	0.001222092	0.071697532
0.025098674	0.008049423	0.024526379
0.001072182	0.077460621	0.000940802
0.024612694	0.001101809	0.000842463
0.00596002	0.020593772	0.000842463
0.001051422	0.001101809	0.056380892

0.001053097	0.04596959	0.039690076
0.001053097	0.038499025	0.047615886
0.167529129	0.09204012	0.244056749
0.076186453	0.001028906	0.231650322
0.082846856	0.008693008	0.134053097
0.326168911	0.31209495	0.24326524
0.071872222	0.004460157	0.103189451
0.201076652	0.266154628	0.233763301
0.141487907	0.239105948	0.208104265
0.114931546	0.093440594	0.105198753
0.1532279	0.086863698	0.162963102
0.273372427	0.249281782	0.273485242
0.051127374	0.009187312	0.174775237
0.143400776	0.32323214	0.530413116
0.045300853	0.067314063	0.231494667
0.140887515	0.061383711	0.163828521

1-Heptene ng	Heptane ng	Methylcyclohexane ng	2,5-Dimethylhexane ng	Toluene ng	3-Methylheptane ng
1.781498266	11.78776474	32.63803482	9.910691154	40.01600124	19.6887591
0.613280627	1.45025261	1.819317514	0.580774475	1.032785898	0.543407257
0.548521444	1.191013254	0.406267946	0.3489114	0.880182261	0.456329222
0.85571362	0.875402838	1.671686693	0.532212146	3.070147561	0.767643293
1.052104208	0.759350436	4.881093678	0.767777688	1.876306331	0.571818932
0.791832953	3.973684076	11.42670513	2.676953059	16.87873317	5.954892018
0.789400585	0.520859087	1.960242206	0.789633631	4.601582573	0.563995948
0.70219626	0.686684936	0.966965725	0.442175746	1.532612241	0.499665415
0.903737584	4.404726903	8.848685895	2.24150622	12.6158601	5.650451786
0.707619882	0.567187706	0.9403769	0.322828822	2.481427017	0.421206839
0.819883595	4.36392304	11.43411536	3.601798987	14.13484959	7.46464255
1.119882426	4.165122499	7.165436864	2.325915263	12.09006824	5.957867751
0.812808976	0.732674609	0.896482653	0.381542177	1.352785639	0.754873353
0.891030513	5.961420334	13.19370786	3.787741515	19.60096351	8.594471268
1.474897908	5.161707165	14.50482634	4.606947662	20.88590975	9.19021917
1.976178377	7.891874455	22.95309395	6.778579728	18.86252009	10.94772961
1.032877158	0.851633069	0.4756344	0.317180162	0.623271067	0.584402023
1.623422283	0.862818842	1.137734776	0.33600259	1.848132247	0.514408577
0.701897215	0.690837573	2.76308441	0.588679431	1.772432184	0.740117781
0.433945747	0.187937553	0.286074422	0.162341448	0.374746498	0.539855515
0.992851515	0.389281055	0.245987187	0.186082582	0.674949546	0.417493491
0.630080507	0.412548037	0.261725499	0.299003945	0.524756426	0.442214699
0.728591395	0.721070422	0.731792514	0.255443366	0.69588767	0.541853903
0.383454275	0.49275124	0.330225024	0.284673597	0.362204983	0.606068933
0.572946933	0.825768698	0.897643148	0.374559142	0.791428061	0.64398283
0.879592374	0.593037581	0.770158592	0.272627077	0.781259861	0.362211046
0.766599649	3.54816742	7.847526666	2.743436495	11.3855081	6.675413036
1.328372179	2.238354755	10.86123442	2.633409798	12.70024727	5.78220465
1.007618712	3.051306967	5.943044667	1.596890896	7.855437954	4.056123743
1.13169475	0.627463168	0.494831782	0.346492616	0.772141296	0.53417689
0.876586131	0.782302647	2.230089063	0.714105446	1.171194165	1.712037572
1.285994317	4.599691344	7.056175316	2.680141243	13.98303313	7.711079554
1.013965186	1.88336009	6.572525853	1.775417308	8.038330039	2.862470079
0.776773581	0.370997085	0.213469059	0.268488233	0.663248651	0.365342748
0.620574231	2.854616332	6.416258901	1.932774767	10.35508413	3.160823454
0.843302934	0.506273776	0.611697744	0.33328248	1.074553932	0.538930165
0.624913102	2.845496555	7.262284821	1.868597607	11.47291972	4.413003524
0.730492292	0.661309983	1.349344972	0.289469227	1.356265132	0.644709998
0.87656761	0.539712958	1.072937298	0.46780768	0.97060146	1.115746689
0.870782449	2.055115889	4.418394314	1.466256183	7.767014087	3.863310034
0.512102461	0.872584815	0.552887601	0.43263366	0.818830851	0.391561681
1.129012411	1.331223112	2.757388923	0.583546041	2.400230456	1.002003372
1.222400942	1.813609599	4.514446696	1.250886681	5.721641896	2.522984557
0.843353373	0.672660691	1.423933004	0.459774316	0.731983188	0.623724184
1.226521025	1.300462235	2.310293185	0.583546041	4.87300434	0.877745344
0.488314013	0.303139247	0.623565597	0.379033259	0.906507888	0.465291157
0.644674712	0.39394917	2.099959857	0.326974423	1.752207801	0.964628579
0.621141597	0.602451108	0.676837906	0.416262796	0.806030495	0.674558553
0.401154711	0.719548041	1.238246728	0.47011699	1.020206316	0.834401312
0.61899654	1.053690173	3.710499368	0.844433888	0.988450421	0.832587521

0.696360928	0.603660597	0.35759754	0.291303185	0.2900428	0.404532837
0.576488318	0.517487571	0.786654619	0.536326212	0.636037277	0.941104154
0.829267597	0.804138984	1.623428892	0.696173113	2.816726783	0.720732464
0.810751649	0.605626831	1.570084636	0.445120449	1.521374267	0.812181274
0.567061491	0.556432549	0.764604117	0.525813959	0.893676631	0.658271515
0.650946327	0.580751954	2.559153637	0.475829825	0.694780901	0.666408425
1.390000658	2.612942243	5.755905005	2.039531003	9.289917804	5.609129324
0.594541006	0.889304406	3.033835509	0.824484587	2.858031845	1.398730344
1.096051753	1.178816947	3.818173397	0.975965153	5.515885708	2.585113571
0.832366487	1.638831887	3.506345477	0.962276114	1.30713292	1.415672505
0.826873044	0.496484756	1.623986988	0.369084434	1.67424977	0.428686266
1.091801759	0.850087831	0.477843083	0.37169509	0.559287917	0.500980081
0.55467711	0.543834158	0.447028995	0.234809407	0.590941237	0.48649879
0.762644541	1.072260796	1.45998197	0.546152918	2.683541477	1.245555777
3.968505056	0.456310078	0.360001474	0.234809407	1.183967691	0.411769387
1.297765416	1.350149753	4.531402211	1.089513832	6.485608369	2.841858849
0.541182268	0.270413114	0.292739483	0.242565053	0.324371402	0.313153502
0.499896101	0.503224811	0.578149046	0.209446199	0.412402927	0.402114449
1.992214428	6.148874825	11.41475266	3.955396727	18.13507924	10.81025199
0.748276505	0.768800205	0.206065683	0.224943395	0.405074644	0.71952788
3.565155909	72.19928267	197.5881054	77.46643125	218.483177	179.8763397
0.896815674	0.329958089	0.531883978	0.376478646	0.929020471	0.314713084
0.778917199	0.318876392	0.248182116	0.35407163	0.37108177	0.392517714
0.758575383	0.220247312	0.312137444	0.284542321	0.436653144	0.477094732
0.668816654	0.596851675	0.873298232	0.41054422	2.03185792	0.952190045
1.350594702	4.42445391	12.39404434	3.354013267	14.31244291	6.368621525
1.142093889	1.035063062	0.812307771	0.395754285	0.655807625	0.844231208
1.193173609	1.30310556	1.979778996	0.937739602	1.19266928	1.563155738
1.307494887	4.998809873	16.2392678	3.970931539	18.80415744	11.80454359
0.542515272	0.671838127	0.41328363	0.314135515	0.373928888	0.603436466
0.827064254	0.473161978	0.414952617	0.281029588	0.515751795	0.637867685
1.230146902	11.22081069	19.55671317	6.413491188	33.59336366	17.94311564
1.140329573	9.061094531	24.35126795	7.030543312	23.61591834	17.36217689
0.578278441	1.494062463	1.240841452	0.361239251	1.347536311	0.430530509
0.534035653	0.598250291	0.486596111	0.241947558	0.43847681	0.483398123
0.643469189	0.559200184	1.244128436	0.319914182	0.479575898	0.462667695
0.541582794	0.608012817	0.706331264	0.388772555	0.554449484	0.581594888
0.876487148	4.931924586	14.65535885	3.66482808	15.5165521	8.119833185
1.129637422	0.714808515	2.401627456	0.920327277	0.722371781	1.420620695
0.993853802	4.929221518	12.05379996	3.672125308	16.18993001	8.169542925
1.421777937	3.225987247	8.097957264	2.082668507	10.91077441	4.938351613
0.838964063	0.731228273	1.241806424	0.467190592	0.5433568	0.53440966
0.556937459	0.662829946	2.03406307	0.472744385	1.00802435	0.566053199
1.04771977	4.597091417	10.42786684	4.039124976	20.738918	11.8899176
1.311201565	4.996322622	12.3985153	3.28855136	14.28098015	8.239604048
2.234226947	11.0412536	82.8212411	10.93787308	18.82419746	20.2102175
0.692105881	2.462799631	4.932794448	1.368301541	2.623685094	3.546252662
0.955218248	0.666116211	0.936155691	0.265238884	0.765320677	0.514341762
0.671526928	1.986432484	6.386450686	1.007806861	2.385084673	2.156258111
3.251036806	76.84581856	254.4195475	56.41455288	89.5388306	96.99542558
6.305921328	88.01071855	457.6065861	67.44334738	133.6671667	103.0543109
0.760491934	2.157518084	2.92222234	0.912780498	2.266458643	2.217719273

0.570134822	1.242007271	1.946087324	0.750655981	1.527634428	1.032709132
0.585922244	0.767763252	2.124915563	0.718855552	0.792905578	0.725071272
0.668796046	0.736644852	2.292847011	0.649712068	0.919207971	0.947525514
0.82450116	0.895384257	0.867941941	0.325877424	1.97894044	0.585039323
0.703361882	0.936380198	1.226005136	0.551650748	0.791857319	0.922815619
7.163512754	79.59038374	342.9688303	71.14842169	109.790462	124.3515991
0.761633278	1.347987082	6.538821997	1.070790146	1.04661357	1.001434575
2.01620346	10.26725801	94.27389965	12.06693844	13.53838494	21.80735872
0.699150494	1.047384107	1.348467799	0.553886457	0.789469703	0.964254098
0.486139282	0.702712691	1.116530235	0.261190899	0.813414382	0.508627707
0.423072094	0.279268626	0.437214129	0.219751828	0.474422373	0.479949108
0.806912048	0.527315517	1.073734404	0.312989739	0.704805292	0.416856189
0.979803132	13.92288549	116.4274597	15.93077147	20.34400878	25.6865261
0.49386792	0.628076086	0.442292803	0.293043024	0.59990651	0.746667821
0.811291894	0.885178074	0.827108369	0.410885855	0.996751692	0.833160185
0.662764262	0.976606017	4.382257982	1.054774083	0.979268469	1.558196961
0.897165584	1.702388181	8.972439531	1.460878598	2.001881389	2.081041831
2.358340182	9.428393197	80.89589615	17.00662422	22.20014593	25.8237026
0.759473982	0.949391473	1.036377233	0.453030337	0.774153647	0.562937254
1.006197768	0.579820251	1.133916893	0.467943418	1.115595788	0.832909671
0.69965596	0.506370755	1.893288072	0.601620811	1.20975433	0.700004066
0.882758114	6.019053236	47.82792264	9.504209108	18.22330615	16.1633883
0.759318459	0.270141293	0.117238124	0.34160198	0.422857942	0.692688162
0.962993889	1.209103775	0.706116876	0.389693237	0.719681537	0.934113022
0.736687856	0.883543845	1.045009799	0.67824078	0.838052275	1.063360674
0.505755668	0.623340074	1.105799942	0.42475976	1.083976238	0.690228818
0.906780044	0.233111975	0.571040938	0.275271747	0.60446614	0.346846124
3.355062913	21.09387712	140.4305547	26.46985929	41.29476693	44.863114
0.656866303	0.428940728	1.010252224	0.375509833	0.783466669	0.401821186
1.917321485	17.5086482	154.0829217	28.40366546	47.78469531	56.00584207
0.580740064	0.501369189	0.318035865	0.307378198	0.471836442	0.471664179
0.773203723	0.580246025	0.889008094	0.402774394	0.696812415	0.515638031
0.611186292	0.365410433	1.134948694	0.404501022	0.795077782	0.634176242
0.628864323	0.343622824	1.490767215	0.268740806	0.869919444	0.516252163
0.774806379	0.633546341	1.645877489	0.431061281	1.521483859	0.595133199
0.523056332	0.433335006	0.344016828	0.235267939	0.492323232	0.431835616
0.590472265	0.533888691	0.725106959	0.16968488	0.901610067	0.507003589
0.654001596	0.430065601	0.422141625	0.232442807	0.725274607	0.399988557
0.762527839	0.875996092	1.586977579	0.678335731	0.898068258	0.859189789
0.479537052	0.443349631	0.627448794	0.323092306	0.541203061	0.526661433
0.457142097	0.919453883	1.372134466	0.486806278	0.819233694	0.984341371
6.482402791	206.0856202	532.1124666	126.6824635	171.1480834	180.7987476
1.249127205	3.725808803	28.84858789	4.766562056	7.953302614	9.44276182
0.517054588	0.456249904	0.413197184	0.218630436	0.349767887	0.59468779
2.382549912	10.03495409	28.84468913	6.878752516	22.27257183	15.89879641
0.946535268	0.484534418	0.761553064	0.355458783	2.063010071	0.76584721
0.63176415	1.749056831	2.334685644	0.644821431	2.649034903	0.870708513
0.579857999	0.48897582	1.637476762	0.490233192	1.163532028	0.672467645
0.720797725	0.431799542	0.457000113	0.315251099	1.059736583	0.496547446
0.762934344	0.87920392	0.970183826	0.454309716	1.01560798	0.664009943
0.785672222	0.71320912	2.076066277	0.505404445	1.224033602	0.76921618
0.76369845	1.433293296	3.522008067	0.881282634	1.753934048	1.345679059

0.894167721	12.52538605	61.1681689	9.770602187	27.15528962	16.05295369
0.61879785	0.587510997	0.684238168	0.270255696	0.445036796	0.695994557
0.46112988	0.391356761	0.491386068	0.415724103	0.511800826	0.927335259
1.90732574	10.62043692	53.19038931	10.40383531	26.66261295	16.89303022
0.69056396	0.597889528	1.202121897	0.379033259	0.777916606	0.805610537
1.001016568	2.681609833	9.026640048	2.284907842	8.215378728	8.449331799
1.506949031	5.046948118	23.53477891	5.421269574	17.46938647	16.55678004
1.345196585	1.789958259	4.820901922	1.626913824	3.814484323	4.445773249
0.818588997	0.240782029	0.45827745	0.32835002	0.472810578	0.370253053
1.14574244	2.519690283	4.317089542	2.158352895	15.93105106	8.406431586
1.422925559	5.803400225	71.31654311	17.59452427	37.57739456	45.92540622
0.884682136	0.887584836	2.038459484	0.422830673	2.385487732	1.403931696
1.845629272	11.85922866	57.14468022	12.54561191	33.20780383	25.85141644
0.492770434	0.417274956	1.769127175	0.423228037	0.94448072	0.657858985
1.082164916	3.752901906	18.80556335	4.637670733	15.89351278	14.22320212
0.762527839	0.939734186	3.334783392	0.549192428	5.825339575	0.878536894
0.869412849	0.457835562	0.351370204	0.215406659	0.609600373	0.645767045
0.696360928	0.620077985	1.550132504	0.319118666	1.495656464	0.693530208
1.373655021	5.686301639	15.79327303	4.085264922	12.78325929	8.577539216
0.730261303	0.619550349	1.038242137	0.28712448	1.029327064	0.62851112
0.580261888	1.576277953	10.77860293	1.107595681	2.739008429	1.443544266
0.729317911	0.750013204	1.56634511	0.616843147	1.544082967	1.168593325
0.80290253	0.414537291	0.978230435	0.198592285	1.160355839	0.408659474
1.425892592	7.353054903	58.44342966	12.90320134	28.92106166	21.10284339
0.687311995	1.203148411	2.49053455	0.705139279	1.48819459	1.140177675
0.952707251	0.782302647	1.413189764	0.594284856	1.572937278	1.126765183
0.849840873	0.460712959	0.607796089	0.485875751	0.619694133	0.540273477
1.115236129	0.35748664	0.471820534	0.33345092	0.720578285	0.462237159
1.000948574	5.987259702	21.95221851	4.324608139	13.18882852	7.36851013
0.419539883	0.933383328	1.460244099	0.655402455	1.285577451	1.253170061
1.058800185	6.838438881	24.13575512	6.137612899	19.43914416	12.06802782
0.979254219	15.78494004	73.16913228	15.40627576	31.97858437	27.75147019
0.710626817	1.260855578	5.179677253	1.097455819	1.333520378	1.370228047
0.889344201	0.590463714	1.501860645	0.395209804	1.114120424	0.872915178
0.440371259	0.210241464	0.342188742	0.230657107	0.352746646	0.444955465
0.680650781	1.301196806	6.865178369	1.202201543	2.043643076	2.045507838
0.834091301	2.55547806	24.44268603	6.029065879	13.08950827	15.69193841
0.58830232	0.492177851	0.601616653	0.309429052	1.487002033	0.481106738
1.046610765	1.187206277	1.715826718	0.572708885	1.475892837	0.997284713
0.80077919	2.919602965	7.0140536	2.135540812	8.724316225	4.644021917
0.693657051	0.574785172	0.992499855	0.365091797	1.50321316	0.707873609
0.719750905	0.387423464	0.541844438	0.329728447	0.470448006	0.688212528
1.486224917	0.949069567	1.682789356	0.592452663	0.764705996	0.781882923
1.930146194	1.212833485	1.369048285	0.736549933	0.928664549	1.427935365
0.630758868	0.616570884	0.400918931	0.270687353	0.386265644	0.494607058
0.541594913	0.737999696	0.812083942	0.389824684	1.244324474	0.905666984
0.684039768	4.057053912	11.55600445	3.87933983	13.20754524	14.84792742
1.633432147	4.285488614	57.63299022	14.17969727	22.44036677	41.11645981
0.667782205	0.390667017	0.547673066	0.283872375	0.88020314	0.553616864
0.569271316	0.542740107	0.706927508	0.346232784	0.641832347	0.758430783
1.532458887	12.45591367	60.25368694	17.06816747	57.37077342	50.84381709
1.053798243	6.765233	22.3101032	6.045446318	25.55074092	15.37230881

1.141424906	3.164726605	34.20226279	9.010859546	13.92897297	24.76333651
0.91578625	1.168580786	2.383713783	0.498860325	0.978383473	0.987042447
0.956313581	0.379133519	0.247037933	0.205315187	0.350036287	0.327218335
1.19290557	3.89050877	20.70027893	4.474878608	17.51785315	14.54248368
1.2695789	7.494933017	24.1248142	14.0723875	22.44705982	43.37905997
0.626122208	0.558271347	0.6809001	0.245606324	1.491881288	0.569587821
1.107618322	5.28248804	20.28953436	4.417898229	16.65084623	13.71704877
0.685254667	0.673120963	0.897528619	0.375836434	0.798595363	0.726829051
1.039115009	1.147565008	5.099173283	1.115952729	2.157168614	2.072955544
0.662624064	0.901409939	0.905896346	0.648081856	3.951561402	1.662045555
0.69965596	0.502400512	0.534578483	0.304107102	1.13039213	0.840225576
0.636483424	0.734268199	2.03742365	0.722665055	5.911115952	1.89056136
0.56127633	0.712988719	1.652637283	0.340687537	0.974759559	0.802927696
0.400738109	5.614868811	22.13032923	5.084243558	17.53473488	12.56618755
0.609003909	1.038260762	3.47407144	0.643060693	1.278993794	1.160951745
1.165825665	0.650670244	0.414263691	0.282681258	11.68948737	0.752298033
0.550798261	0.401781996	0.414620077	0.256730598	0.831013685	0.461870869
0.879173293	1.834047768	7.237805927	1.453214114	5.051510531	4.153657723
1.874469297	18.84256116	53.68170247	19.59109304	95.97321322	80.67640668
0.770199278	0.691951608	0.839190986	0.292654074	1.11318813	0.581124465
0.626353578	0.284570625	0.484739773	0.389415695	0.613167555	0.597194098
0.960089038	2.403659157	9.982826255	2.907830749	8.522544251	6.117030065
1.032877158	4.103896746	19.43519905	5.24352299	10.82741198	10.57459023
1.369350543	10.84752001	36.33513317	10.70773097	32.92443131	28.73356414
1.049357487	0.520254525	1.218895468	0.618339015	0.718607613	1.143563152
0.568681222	4.545734804	13.40581401	4.174066836	10.69308705	7.436681785
0.964580017	4.038372557	17.89195435	3.83617413	12.37981233	10.6583027
1.652882257	5.861880454	22.46948313	5.777335636	19.78027588	13.92001541
0.638370425	0.788854498	2.078082139	0.513278584	1.006889017	1.30270626
0.984152593	3.839104761	15.7218265	4.311428481	12.2335897	11.59258774
1.300197784	3.359921459	9.678458414	2.647148452	16.19789978	10.20132113
0.667782205	2.022991125	6.493369575	1.990530031	8.210632407	5.602695111
1.302630152	1.584276669	6.939755631	1.530622017	5.648673747	4.820112201
1.098706908	6.996386294	18.26679976	3.798307676	24.44737212	8.709858674
0.614924731	0.738862615	1.355528235	0.288124273	1.387730835	0.666323343
0.678037784	4.871215747	30.99090429	7.993409803	22.03483639	17.45356395
0.413281407	0.6018003	1.059938675	0.451801648	1.191485347	0.520494679
1.261391308	2.123866943	7.501502393	2.133913343	7.413317568	5.061549505
1.341579674	2.525018035	5.741774652	2.289117931	10.77693203	7.88416095
1.083090116	1.295827189	4.692031504	1.263164599	6.523786813	3.58532481
1.156674735	7.227005832	20.3370821	4.273623541	17.64292124	12.334111
1.246905094	1.30637473	2.947621609	0.949671095	1.1102153	1.602298999
0.716114581	0.780317525	2.89741525	1.276528622	0.992292935	2.210738419
0.760864388	1.486649794	3.2413513	1.161414675	1.581841996	2.404090804
0.45858972	2.319589419	3.359811732	1.530433343	3.132119864	4.125499363
0.61623536	1.740483585	6.492712087	1.719879381	11.43133873	4.191498746
0.571400362	0.393796527	0.463832241	0.404247609	0.688197244	0.468410277
1.079685481	7.287235312	31.62327883	7.761840031	23.05535887	15.80667932
0.983788347	2.986149776	17.78350006	4.781350344	6.965510978	9.163154524
0.992506269	3.502165687	15.70687828	5.148117446	12.7323735	7.967235483
0.687379027	0.340317497	0.765989105	0.278168801	0.713233823	0.457642018
0.880975904	0.701979408	0.54657793	0.415501031	0.764553019	0.554584889

0.666443325	1.693631374	0.931848991	0.376018684	0.916959217	0.516137019
0.785672222	1.100516532	3.074200393	0.698762118	2.008923736	1.08929857
0.880434114	1.366178655	6.390397762	1.142515124	3.67660183	1.760134635
1.453886281	1.205254062	1.134301404	0.585929741	1.273390851	1.257835481
0.775378454	0.517974839	0.451840553	0.357018752	0.753467806	1.064992536
0.553460927	0.562433026	0.624636179	0.270574935	0.819028335	0.36540948
0.645890896	1.004429634	0.867958022	0.608054794	1.099852334	2.070346961
0.924548916	0.358564794	0.319441512	0.295200733	0.320167671	0.51678782
0.675908261	0.274330966	0.238308423	0.295605622	0.398047322	0.395707955
0.69562426	0.753288427	1.427575731	0.282244258	1.345435579	0.641536772
0.507021768	0.590140395	1.619671096	0.586942009	0.862537187	1.039964296
1.611500203	39.86342967	149.7311643	48.49831286	120.9073706	125.3608293
0.679055736	0.50419054	0.490447388	0.340178958	1.026424253	0.494013195
0.684145499	0.34001666	0.310892516	0.218188207	0.480134032	0.317470868
0.801210033	4.077386751	54.50377055	10.80833645	22.77765785	27.1337667
0.498878149	1.707488507	1.440635168	0.592107741	2.353731837	1.273943339
0.71045006	0.829888421	2.643324339	0.995746366	1.616108101	2.839029399
1.8066722	11.1817166	33.40670744	9.463140323	29.44202177	21.03434435
0.662516649	0.612671173	1.180475846	0.29193758	1.003173235	0.55068348
0.708797938	0.269159576	0.361334562	0.325260336	0.368370138	0.400602692
0.499085848	0.822426042	1.718168586	0.581968974	1.887115756	0.786653876
0.499085848	0.849785373	1.378750043	0.534453192	1.473384917	1.189882982
0.869002385	4.175416364	14.72366144	5.513725726	31.7070511	19.12971037
1.197377417	2.708844826	12.78188523	4.846823776	10.89047049	10.31171043
0.822506805	2.408669365	9.982491189	2.873350238	19.03437303	10.55190917
1.875497794	1.74042165	8.334944831	2.232278317	16.05597493	7.08986835
0.699120473	1.23780353	2.69851448	1.113808227	2.560702142	2.402645829
0.748846568	4.941782105	10.4388194	3.489820558	24.13786681	11.11749631
1.833546479	50.92894331	262.5556095	142.3284091	230.1327731	356.357158
0.791165665	4.154232728	13.53965795	4.31494986	20.71566165	11.05589348
1.164308494	1.090046834	0.708776104	0.576441855	0.472060647	1.231666269
2.293220881	4.343135149	13.28822805	2.520865507	6.37263962	4.440665992
0.553555931	0.560526816	0.597021347	0.17054293	0.912855172	0.620792896
0.424159459	0.427681619	0.266572524	0.259464271	0.549884533	0.490145943
0.328471312	0.386167495	0.456174308	0.383781486	1.189784844	0.461467344
0.627648139	1.07554295	3.990292323	1.396730551	7.979117411	6.895928939
1.016826957	3.968213821	13.21402543	4.573901667	30.04001792	17.50612023
1.230146902	7.520399058	11.78899013	3.623395262	26.90456361	14.02453092
0.5554216	0.436921843	0.532030746	0.377798261	1.098521685	0.337002566
0.648524929	0.597553793	0.603920825	0.231228137	0.531902973	0.429341251
0.543372934	1.344884146	6.577986397	2.68567038	13.12539657	11.35160118
1.126954825	2.088951346	6.065470502	1.789762869	14.67035564	4.41905699
0.768635554	3.089446285	8.548620981	2.42792947	17.29099422	4.633084332
0.876538516	0.618146527	0.844367687	0.375544355	0.921163455	0.500059165
0.876487148	14.85420159	19.93685021	11.62871795	146.5561109	48.33795475
1.076146905	4.180830702	13.60705919	3.434929447	25.33720819	10.21799628
0.749031822	0.657239991	1.078480705	0.591024432	1.540205975	1.158467437
1.353886127	3.158493115	11.36450849	3.535187491	24.77046344	11.48974441
0.700120196	0.229640543	0.46887311	0.275276202	0.554098555	0.748681628
0.564168911	0.34667768	0.462992096	0.440655805	0.68507867	0.603121346
0.738233567	1.358055251	7.478986861	2.293359924	11.80411903	5.078930304
0.688832014	2.498722003	7.253216849	2.2974158	16.29715661	9.059970561

0.73242162	0.101606535	0.307514167	0.284542321	0.42795173	0.378139621
1.827192445	6.259456635	21.02873482	7.227679243	48.43185117	30.20301885
3.337376507	4.004623006	16.07628553	4.518574312	26.35901602	11.54899337
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1.080928105	2.025975394	5.297520429	1.682205726	12.78086667	4.276358371
0.42633419	1.177011558	3.412878697	0.938029067	7.807416643	1.957852932
0.895208576	2.359958836	6.470872664	1.471929867	15.41238363	1.818481197
0.413599789	0.461780333	0.472486024	0.324681761	0.846978892	0.497569813
1.544650729	1.234180346	3.818605378	1.121152569	16.46263902	1.74651955
0.506003816	0.53412813	0.739540853	0.217393479	1.189423043	0.398486867
0.701713288	0.502400512	2.141181969	0.588579114	4.522789891	0.595142763
1.201643887	1.413571293	1.151698311	0.39539898	3.172287373	0.885340323
0.774558239	0.956391896	1.88173988	0.735903415	1.097960654	1.719531133
0.578405012	0.43751717	0.469328851	0.327998139	0.396875249	0.395900794
0.585669946	0.673369318	0.735937807	0.312354045	2.719531418	0.477940502
0.951848873	1.731114519	3.106949444	0.960564984	9.409885599	1.539144091
0.943817794	0.938458375	0.626801002	0.40032297	0.753408012	0.773705044
0.787206698	1.198560073	2.74347569	1.651239587	4.636106795	5.302469605
0.685657294	0.495634036	2.318032049	0.469041857	2.535432674	0.613066458
0.967052833	3.475533122	32.8809126	7.345289926	7.141493897	11.0117279
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1.02883094	0.873486292	1.543470136	0.577144828	1.677847784	1.102118898
0.533012427	0.494460025	0.664278243	0.34567751	2.207834877	0.703662019
0.667729288	0.560526816	0.842961947	0.294860145	0.856199781	0.843848669
2.242074974	0.584746087	1.199036022	0.508774341	3.903856098	0.942268333
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0.608817016	0.554408433	0.674672764	0.319913394	0.985341452	0.70138997
0.591613717	0.612419471	0.645234372	0.382486515	1.064014577	0.730408876
1.015023468	0.917349489	1.694468641	0.495137666	3.654688654	1.029528885
0.737480603	1.512507727	3.696188234	0.935253729	7.662102256	2.154016271
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0.484622945	1.387852211	4.396550546	0.91951615	8.562597007	1.726014954
1.066608599	1.72970106	3.691752705	1.443943539	10.92465462	3.098982303
0.518191596	0.551492516	0.556553425	0.336603603	1.369074214	0.501029507
0.626431955	0.136847183	0.397298983	0.279287051	0.784485664	0.475427767
0.945360249	5.787728815	14.91774907	3.960668504	21.40254325	8.292194292
0.727388926	2.555500551	7.657878085	1.76818999	10.78104207	4.824295739
0.627713597	0.763083059	0.346657042	0.227179239	0.651598687	0.600565302
0.673965974	0.784251865	0.364343822	0.331834314	0.886964798	0.688088835
0.681091641	0.269518464	0.573478543	0.286932181	0.813459895	0.440204061
0.837856322	5.54819157	10.05563644	3.855260996	21.77279473	11.79634972
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1.164611991	1.85228315	6.807235453	1.954696857	7.398212419	3.710498915
0.50776359	0.580751954	2.182768719	0.731304288	1.149399712	1.141965622
0.797806029	3.357795585	6.247654169	2.167048347	10.95759569	5.239626639
0.565570391	0.377466208	0.486112854	0.340072068	0.784499842	0.475125958
1.112532082	1.717132302	3.917132485	1.152211527	5.231583589	2.265031181
0.829619766	0.597156719	0.380946927	0.389047615	0.737674923	0.634734389
0.502449762	0.466082184	0.783372815	0.373421718	0.874771465	0.60167383
0.513323415	1.65961325	2.118711093	1.367527777	12.7698177	4.006142234
0.662764262	0.591677014	0.887373137	0.37982271	1.240121051	0.723479711

0.624427597	0.819891919	1.558518375	0.269287782	1.174852593	0.852509264
1.07203225	0.9808148	4.257170805	1.347442848	8.876053157	2.94476754
1.059688285	1.95550947	6.820833009	1.78270948	19.32899646	1.958339702
0.78400639	0.631433411	1.097308089	0.335081132	3.086199563	0.945086879
0.996609703	3.967229115	19.55864567	1.598313031	1.873255426	3.294630421
0.558063196	0.603328377	0.886194299	0.380724531	0.803044852	0.567592142
1.368829867	0.55472854	1.151262163	0.398106858	3.160817444	0.502467838
0.612628766	0.774730875	1.074372482	0.535064029	1.179068903	0.502611929
0.923008297	0.809686418	0.837297831	0.794015012	4.047133721	1.17973954
0.881807475	3.202043749	6.715040527	1.521245197	5.272564074	3.034172649
0.934126458	0.776867024	0.923016249	0.627771688	4.648518415	1.929191423
0.653187999	1.579900465	2.477671136	1.412779186	13.4455609	4.997248563
0.735056259	1.121566557	1.918482271	0.541373759	1.718461409	1.255497298
0.679194261	0.75720628	1.437845743	0.467683807	1.593013221	1.404095314
1.160547257	0.904002224	1.989678681	0.524555859	6.052072224	1.075030922
0.664681391	1.018532109	3.418306224	1.136330381	6.620731885	1.852259081
0.633590844	0.428755672	1.155271498	0.543092425	1.231868673	1.34810068
0.492678787	0.300294102	0.840732079	0.327418728	0.656985393	0.393363484
0.92712186	0.863480443	2.50665278	0.704615226	3.236022527	2.319182193
0.696278982	1.117054432	3.245800937	0.67537738	5.59137264	1.364553345
1.344138956	1.434020814	3.773707562	1.291184147	7.776484822	4.129382379
0.693437491	0.671792134	1.853553803	0.313554074	0.948749467	0.726318707
1.895347713	1.004039234	2.178585045	0.634879937	3.980540432	0.81561633
1.179826759	0.977473022	1.894522626	0.546471561	0.825612215	0.851006274
1.364220063	0.752004572	1.110454101	0.655309908	0.85481431	0.632227737
0.369817172	0.332682313	0.392562792	0.212341318	0.554289091	0.354338458
0.785441589	2.094173426	1.897428748	0.522343936	4.249328824	1.180281019
0.570134822	1.440947384	1.103840046	0.489587826	1.639335234	0.674183104
1.39535305	0.92130117	1.903795524	0.335216042	1.989051805	0.5788672
2.991518873	19.15460238	46.25165216	14.03375344	45.60012646	36.98689215
0.448465688	0.3253982	1.553500184	0.404864697	1.812616484	0.52627275
1.168718308	0.808092301	1.816185203	0.624474278	1.895331109	0.929084745
0.539174366	0.117330011	0.080203063	0.018013306	0.428573259	0.024607684
0.392239433	0.548024309	0.614794939	0.208660672	0.460052291	0.317916891
0.358917541	0.001123995	0.030382873	0.039319204	0.205955747	0.024278028
0.0718531	0.001123995	0.027132557	0.034570977	0.083006495	0.023640725
0.139269749	0.007351114	0.016839889	0.011261499	0.122265625	0.000697846
0.534001986	0.001184857	0.020771752	0.000499342	0.205961858	0.072027381
0.096175815	0.078862479	0.017219609	0.000499342	0.091522783	0.020131963
0.013475317	0.110589958	0.036164375	0.011962652	0.202797644	0.024975535
0.13481362	0.001060759	0.000557662	0.000440925	0.077457508	0.022684129
0.261872281	0.001060759	0.023665187	0.019470748	0.171045839	0.017792013
0.157815619	0.027506263	0.013908676	0.027568545	0.032101461	0.016568985
0.15379226	0.032914931	0.000563574	0.062421515	0.08018741	0.021218332
0.097804874	0.097618755	0.000563574	0.041758587	0.213206858	0.026659705
0.150738402	0.058023878	0.058166438	0.01036683	0.0442122	0.000662034
0.222716113	0.02847374	0.030045551	0.028814497	0.039897041	0.05787881
0.187810588	0.066636344	0.017581582	0.013512636	0.077537295	0.027874243
0.301017694	0.041786276	0.022659495	0.036465427	0.224842937	0.016963491
0.31905036	0.053763046	0.001135919	0.02778615	0.238576224	0.001335153
0.236757257	0.002149887	0.02833103	0.00088765	0.143520934	0.001335153
0.185324067	0.002149887	0.001135919	0.020450196	0.035911171	0.076932836

0.073876507	0.038125227	0.032837904	0.043868174	0.056512722	0.020880216
0.127389247	0.00164612	0.000912397	0.000672009	0.07071956	0.000989991
0.111480054	0.00164612	0.000912397	0.000672009	0.052354623	0.000989991
0.12943207	0.001548048	0.023953197	0.016275073	0.052237078	0.000926118
0.081483503	0.10875357	0.021641558	0.021489771	0.150438757	0.039831547
0.075671556	0.04300085	0.000836813	0.02728388	0.035455778	0.000926118
0.28142128	0.001634641	0.042702297	0.0654635	0.058622468	0.116279174
0.105248831	0.001634641	0.09774102	0.019498976	0.025585541	0.000935565
0.565934501	0.142734666	0.017859624	0.086177632	0.467602139	0.049620635
0.321476286	0.138540001	0.063423521	0.04282901	0.290304622	0.022095122
0.520613596	0.037868038	0.031386406	0.00062114	0.157971804	0.03389177
1.095221408	0.621638498	0.504583578	0.338651711	0.379196727	0.495657158
0.363192282	0.001641703	0.025401848	0.065874986	0.233976295	0.054869479
0.477440359	0.030183882	0.084554812	0.043204117	0.2647269	0.105215408
0.357655334	0.001184857	0.040308543	0.044518454	0.235230838	0.031894924
0.647429596	0.223398885	0.035989201	0.068867309	0.323707655	0.074662859
0.283072224	0.151699562	0.016131916	0.012751014	0.180784756	0.048425198
0.402172663	0.065749707	0.101757794	0.096197456	0.23496964	0.08228263
0.54741372	0.053763046	0.095272842	0.00088765	1.22544742	0.097661233
1.308624921	0.002149887	0.001135919	0.01963509	0.312557936	0.001335153
0.98070051	0.00164612	0.061402831	0.000672009	0.230806367	0.022688418
0.287104262	0.071065372	0.091539474	0.001231024	0.319489519	0.151309455
0.414971362	0.083140282	0.022547272	0.070177811	0.289257615	0.086375275
0.815886158	0.349671478	0.206522634	0.188275047	0.793453917	0.289485816
1.010903386	0.120363119	0.05488029	0.021154698	0.317624945	0.052766408
1.215756324	1.264373561	0.542590216	0.43530955	0.512568054	0.491568218
2.828278315	0.398803464	0.208727984	0.228948028	0.494656616	0.258498667
1.470055599	0.333620427	0.304862422	0.195740427	0.406201665	0.230693878
0.362179637	0.073773712	0.051509929	0.02550618	0.266372492	0.098205084
0.291500892	0.001123995	0.028757715	0.019462982	0.378037682	0.121785266
0.370878559	0.071698006	0.028757715	0.019462982	0.329610252	0.077811413
0.326034555	0.078862479	0.068133668	0.017465041	0.225474512	0.020131963
0.380762826	0.043852847	0.036164375	0.026177157	0.478611637	0.022899718
0.164282109	0.030724235	0.000642938	0.045894051	0.185658151	0.016672268
0.374691609	0.001060759	0.015962679	0.03931035	0.2020207	0.034914419
0.374691609	0.125452574	0.003125164	0.015826739	0.18432078	0.091785264
0.259681614	0.123493647	0.047799714	0.01420718	0.18653327	0.000669608
0.234210505	0.084098553	0.062317995	0.01632729	0.16301922	0.042983825
0.188402644	0.084098553	0.003158298	0.048911139	0.135926778	0.000662034
0.321754418	0.102447398	0.039484428	0.044142771	0.097952946	0.036937854
0.234036823	0.000961165	0.051280461	0.050309968	0.121484835	0.031147468
0.202904869	0.035573759	0.026814152	0.013148306	0.217314886	0.138072834
0.199131299	0.107461455	0.035585093	0.049216978	0.167263522	0.04205822
0.53918441	0.002149887	0.001135919	0.026971044	0.299555089	0.096441916
0.234699929	0.047807682	0.054480175	0.020450196	0.219744515	0.111073725
0.197668033	0.002149887	0.001135919	0.00088765	0.251130696	0.001335153
0.276357146	0.00164612	0.02359631	0.000672009	0.234271449	0.005510496
0.487515526	0.051804893	0.000912397	0.026589708	0.257140993	0.022688418
0.147637311	0.00164612	0.000912397	0.019184651	0.22041112	0.000989991
0.098919346	0.050147884	0.000836813	0.049880905	0.156032524	0.044060398
0.013193121	0.035853815	0.000836813	0.000630978	0.051926313	0.000926118
0.2035344	0.124477046	0.000836813	0.044086796	0.083313559	0.040677317

0.464697456	0.063518554	0.027973625	0.015373955	0.161473276	0.028276272
0.16634089	0.098233919	0.020221692	0.003588179	0.134046394	0.045364214
0.550827532	0.455936327	0.111835161	0.155193203	0.88822129	0.2855536
0.620868931	0.092398685	0.097596443	0.070777464	0.524234893	0.08501058
0.421731621	0.03926626	0.076238367	0.03769562	0.387064101	0.022881565
0.652770069	0.833862339	0.384601839	0.463773208	0.677628849	0.503835037
0.40876036	0.038022933	0.017949566	0.064096007	0.389392469	0.164453058
0.442602272	0.282166671	0.368737567	0.106522065	0.613543857	0.354736486
0.385644942	0.367379962	0.354359551	0.173733779	0.654253675	0.442794569
0.364224995	0.088823904	0.113600305	0.09694421	0.277335831	0.089519989
0.767997005	0.188224175	0.112677048	0.054681928	0.280591205	0.14571036
0.50920988	0.462194854	0.42266514	0.123472536	0.593600495	0.171865105
0.45858972	0.077644261	0.056361961	0.092618132	0.227687793	0.045290946
0.443277233	0.478969972	0.645013365	0.217330656	0.553811477	0.293562602
0.380873469	0.077102827	0.179136315	0.117910201	0.473454063	0.123968748
0.752711563	0.611138936	0.368132081	0.123822489	1.031368403	0.526991668

cis-1,3/1,4-Dimethylcyclohexane ng	1-Octene ng	Cycloheptane ng	cis-1,2-Dimethylcyclohexane ng
16.87000395	23.31364876	1.179988194	4.302910079
0.386833002	1.773867072	0.477336531	0.139755701
0.200803995	0.926610429	0.392786574	0.111965148
0.533728635	2.259197711	0.587329818	0.343257169
0.538009507	1.190359795	0.451821467	0.32150553
5.145848323	8.141242386	0.529111409	1.45366902
0.931201677	2.260646526	0.30878648	0.412771579
0.279351513	1.06308793	0.34143876	0.167132372
3.82554585	7.142748866	0.519953958	1.142393194
0.174092225	1.597134116	0.570229426	0.194685642
5.457799527	8.88353533	0.446656309	1.767751776
3.635642537	5.521574154	0.696359228	0.859417536
0.234068043	1.439397955	0.599749164	0.107905701
5.939015308	9.99306129	0.323819957	1.467999813
8.207667863	9.767973549	0.516184406	2.204276702
9.366245335	15.64942349	0.874585916	2.660363697
0.186502365	1.124550241	0.581225838	0.280419102
0.294475465	2.791347374	0.654473595	0.336006622
0.48378513	1.304959189	0.355378586	0.173473546
0.125067511	1.4139051	0.459838299	0.143782144
0.093047593	0.960674946	0.391389305	0.16297889
0.15143507	0.883281177	0.341508004	0.124943604
0.297539565	1.054955677	0.375320246	0.13887941
0.219007672	0.914825433	0.339477055	0.115826752
0.277544811	0.867201722	0.36988349	0.114010623
0.24925549	0.777793263	0.466544607	0.165071303
4.151938016	6.775344979	0.476994513	1.028612672
5.202510594	7.61654564	0.677610203	1.292488374
2.283771598	3.791366578	0.309447538	0.646066461
0.14694898	1.684739767	0.637575818	0.186313239
0.651663553	1.446308992	0.374680573	0.228189992
4.260984742	6.954405464	0.380354571	1.085326941
2.311166033	2.901391604	0.110494012	0.615360476
0.18768274	0.802215022	0.447401884	0.137119523
2.395793579	3.731267844	0.12667736	0.573682166
0.137017565	1.027221339	0.61806264	0.147009291
3.145749529	5.033657349	0.229662299	0.70295557
0.243358757	0.807509288	0.332647238	0.197164546
0.31740786	1.269434022	0.457700378	0.18444913
2.065634797	3.281255209	0.095781878	0.592048879
0.22108835	1.1119296	0.662199043	0.176678597
0.493298179	1.72137481	0.715513393	0.328756076
1.78612147	2.625688843	0.18812954	0.612735801
0.359164195	1.578409229	0.394444057	0.23268634
0.48759035	1.279996945	0.587329818	0.262896949
0.222652021	0.913322542	0.095117539	0.084715236
0.414341765	1.064879058	0.462577643	0.196230607
0.377274752	0.836650662	0.555264656	0.128993681
0.333749117	1.531771193	0.247096579	0.195631412
0.577644586	1.378866578	0.416195059	0.237978992

0.244640291	0.848094236	0.360145563	0.194758266
0.3681376	0.931359279	0.44069071	0.114280946
0.403266224	1.994008672	0.456007879	0.234426955
0.303907292	1.156045439	0.331179921	0.142654496
0.212180188	0.680446898	0.314992677	0.176678597
0.585766263	0.660593399	0.551858037	0.279814755
3.009343288	5.790737428	0.110494012	0.654213139
1.124153348	2.240931885	0.12226372	0.293942996
1.24673162	2.525839866	0.074595516	0.338423471
0.839573144	1.884764046	0.572680266	0.309421287
0.27973024	1.039451681	0.410314404	0.148700847
0.187582588	1.484450519	0.302507775	0.151165508
0.153469952	0.948775495	0.297879305	0.17103896
0.653643834	2.502777033	0.134271684	0.198374577
0.186028056	1.110526613	0.481119841	0.209094427
1.592538177	5.531393059	0.222619799	0.475482701
0.190461783	0.894158539	0.376749459	0.227518633
0.154821436	0.863033192	0.363945529	0.130145464
5.949735189	10.79743937	0.763891934	1.702681365
0.095178876	1.000998851	0.281296272	0.112245971
131.2688271	178.8853067	6.621903238	33.57457582
0.095260552	0.749272359	0.00162422	0.07071679
0.14589962	1.148266682	0.493279046	0.165224819
0.135628543	0.401357107	0.408394478	0.156966976
0.579445388	1.217730855	0.12985285	0.160025544
5.491072023	12.28949605	0.803104895	1.607164794
0.224283829	1.344718416	0.364413071	0.250901843
0.422888268	1.790278244	0.514932082	0.178542855
7.669915386	12.39936538	0.473484818	1.874959127
0.138411828	1.119457656	0.435309707	0.115831732
0.180344253	1.189784973	0.516030547	0.14670093
11.14413359	16.81305791	0.766147994	2.687010194
12.775224	17.32344033	0.744569234	3.113346279
0.273041511	1.329655897	0.400045204	0.137130631
0.160554175	0.758661321	0.297516341	0.185530652
0.309795054	0.782064315	0.43557734	0.168016758
0.225021077	0.56013937	0.34012776	0.118261376
6.714904119	9.084478281	0.445804081	1.660678195
0.820861733	1.904165192	0.722685789	0.295905593
6.083285148	10.06091659	0.319831925	1.482710599
3.33867466	5.985132528	0.246069949	0.950786734
0.363618954	0.702947529	0.625418707	0.276282695
0.295694213	0.923983147	0.560685317	0.168908065
9.889556702	12.859315	0.936565124	2.784866553
5.792682794	10.08553479	0.485624112	1.350339868
14.76229151	21.64795691	1.134459607	3.615326785
1.198178135	2.598041496	0.537837149	0.356492366
0.209251482	0.888767176	0.673947837	0.241139595
1.231122033	1.872691019	0.493470934	0.325589554
79.36519441	106.2530831	4.21874962	17.08164199
90.05147434	124.2350776	4.926925294	21.03807718
0.7689978	1.344594854	0.522594103	0.251949327

0.596815409	1.588011971	0.423794991	0.236669273
0.54316524	1.196055214	0.302629711	0.181948264
0.314707176	1.223428049	0.397376565	0.144436486
0.216634269	0.914718181	0.266442634	0.086257855
0.346185619	0.938391265	0.314078292	0.158237414
102.77548	131.4023838	5.128751551	24.83888292
0.896473944	1.887035619	0.410267421	0.32193084
20.1410729	23.79140273	1.400379925	4.793884082
0.381519859	1.475156309	0.741150108	0.212747338
0.340058386	7.262410206	0.433276002	0.192512344
0.211216336	1.684490267	0.384237917	0.104404206
0.219221316	1.236091991	0.407735333	0.188082326
20.2270955	29.17111134	1.211755606	4.639758302
0.285330276	2.388658147	0.478938406	0.223030233
0.354923224	1.987753535	0.495299168	0.140487387
0.744396562	1.946372988	0.409117599	0.193920262
1.278096281	2.138664953	0.387538839	0.379165335
22.24992969	30.27079983	1.705804914	5.070224371
0.301087715	1.340201043	0.327845853	0.162451865
0.257107795	1.397931733	0.467355875	0.345801299
0.270067656	1.61044612	0.677293805	0.297687583
14.09391901	21.71119718	1.193627631	3.689704592
0.123189235	0.58070161	0.46357321	0.127507586
0.117429297	1.257983234	1.093386998	0.184531249
0.313987184	1.273533067	0.206351963	0.160474391
0.262476343	0.950736877	0.318120414	0.127111699
0.144872512	1.375425958	0.415131349	0.139816073
42.02313428	53.65168886	2.294718214	9.660473278
0.19263302	1.047032657	0.463636816	0.196985752
69.55565202	78.19207564	3.785815223	16.11863296
0.19330043	1.75406931	0.365848635	0.151657732
0.272969035	0.604082351	0.603887674	0.176268944
0.319474153	0.890129528	0.412843467	0.171838926
0.351260438	1.398304676	0.240071279	0.113151769
0.429806865	4.080594688	0.277155673	0.184438772
0.157132739	0.803894125	0.159358186	0.128695552
0.243217477	0.820476571	0.33064938	0.154419475
0.239965413	1.745993977	0.349285582	0.086768701
0.42747314	0.841942901	0.486494427	0.246710451
0.148786177	1.07393611	0.422844999	0.160269
0.296472516	1.803308699	0.505494257	0.181224503
141.9170217	186.6939876	6.362191617	28.70995952
6.580812963	10.27157499	0.733005049	1.426628882
0.21019369	0.738486326	0.344388902	0.146522433
10.09364203	15.23210001	0.70944646	2.89939225
0.198788422	1.264894271	0.546791848	0.186313239
0.487505318	2.876893646	0.350093248	0.301251562
0.297911558	0.993946522	0.452857824	0.209690125
0.235771543	0.82851531	0.330246781	0.151250008
0.360051573	0.863083026	0.508100162	0.203337938
0.341089403	1.2550347	0.533614796	0.205496792
0.694974807	2.467972845	0.503094897	0.238124249

14.38187334	16.57391018	0.815618662	3.270665178
0.257340265	1.662263629	0.550763082	0.096528618
0.24628577	1.226428235	0.337243085	0.209247968
15.85561437	24.4880552	1.244447663	4.199217613
0.311469173	2.003394214	0.50683313	0.297356106
3.481315223	6.826394341	0.241161996	0.798150188
9.828517724	15.04096952	0.751617774	2.194946652
2.343409466	4.488445666	0.415676792	0.653432213
0.252772171	0.692752253	0.325147242	0.115831732
3.447943166	6.433428435	0.48548271	0.866221236
43.87109174	55.98850241	2.404172061	12.28570155
0.682729097	1.783975932	0.55964377	0.279016852
20.32714235	31.24623474	1.557134804	4.629903246
0.322033614	0.671463042	0.36489552	0.140186642
9.891469392	16.24927978	0.868390995	2.421717075
0.686634264	1.19608405	0.386745324	0.249329889
0.2425102	1.375351529	0.373445443	0.110499679
0.444513871	2.454471457	0.365845512	0.213967477
5.610263751	8.584945403	0.456030821	1.474394048
0.412942097	1.755306077	0.599205191	0.181152178
0.911593586	2.890754799	0.482449902	0.295390534
0.501261753	2.287925946	0.381886951	0.213791708
0.353632547	1.590678117	0.420237229	0.187122824
21.9533545	26.23101536	1.70428746	5.937684344
0.535744799	1.391020696	0.406833229	0.271848735
0.277987571	2.562441464	0.336853919	0.110578685
0.066309847	1.708928397	0.412507227	0.043754079
0.123909228	0.756933053	0.42196389	0.124834601
5.655624381	9.433192631	0.515077701	1.583851389
0.575744579	1.051045538	0.535674689	0.162550356
10.23720383	13.85919924	0.413563976	2.272603132
21.05839452	26.29940144	1.52727253	4.564203802
0.684104048	1.97418818	0.413783975	0.413595313
0.317426604	0.960613368	0.288478184	0.223029716
0.157197805	0.682837079	0.385489119	0.068671583
2.323939135	3.646977066	0.161501516	0.699743358
16.98409954	21.39975786	1.253382141	4.110114257
0.208029054	1.641900917	0.595833341	0.13899666
0.394362474	1.518272913	0.611745737	0.430263722
3.014256031	5.334092352	0.280910033	0.594005223
0.205528462	1.393461692	0.352936994	0.259875888
0.184599755	0.902159337	0.344391422	0.210330489
0.391033067	1.358838039	0.619304086	0.362913459
0.506845371	2.433465697	1.049872701	0.318087417
0.220364884	1.377182828	0.403648826	0.151165508
0.364454513	1.007060975	0.41488672	0.252071476
6.328164153	10.59543964	0.530330546	1.865090293
32.75227223	45.43727931	1.990672824	8.576473394
0.280853536	0.934882761	0.357868766	0.152279222
0.282888418	0.979537977	0.410223205	0.090640084
39.00166899	57.38216989	2.0236012	9.060257938
11.03103406	17.15810518	0.747511792	2.759201288

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0.482063458	1.410830877	0.497394345	0.184839622
0.202024675	1.019058461	0.356151551	0.185293654
9.751166487	20.69843389	0.605288146	2.069526619
35.88330165	58.87557758	2.270776089	8.686135537
0.254935733	1.536165004	0.554893813	0.119231139
8.909679804	14.77624789	0.502051155	2.064293848
0.373746541	1.332276882	0.764295109	0.313725488
1.42565523	2.446681594	0.251743947	0.383223079
0.57102442	1.957725728	0.427637888	0.206806118
0.127509189	1.137040087	0.361441244	0.192550202
1.1625698	5.467787185	0.239960793	0.438757465
0.297921254	1.5751779	0.320877531	0.159724708
10.28564196	14.10008836	0.768126409	2.18924651
0.583539222	1.220462059	0.31646389	0.337034131
0.207726106	1.325023818	0.513606488	0.104624569
0.299965773	1.296414036	0.192814623	0.107419921
2.302312211	3.67047538	0.001487501	0.587010006
48.92067595	61.82942278	2.304149833	11.88945554
0.222419143	1.081600373	0.738501132	0.166495256
0.238339312	1.302586843	0.235930594	0.170941787
4.802233496	8.346581383	0.460367038	1.177069976
9.403695055	13.72481039	0.600758573	2.403016488
23.4463816	30.82621704	1.46508211	5.424077385
0.59366084	1.048528861	0.461587834	0.511228154
5.845339264	8.654070847	0.454263059	1.381897905
7.084825299	10.60896889	0.608995808	1.723821937
10.44882259	15.63605474	1.088138766	2.938631348
0.582113714	2.238223484	0.418973227	0.290464966
7.164493903	19.12660339	0.396497438	1.817344542
5.477534014	10.83345578	0.376410963	1.489044525
2.496025581	4.820878945	0.18771684	0.65504019
2.755676466	4.618441963	0.194261145	0.66790401
6.851410062	9.660515633	0.744569234	1.786664659
0.28724212	1.356897524	0.328795845	0.186026806
14.79280979	19.65360438	1.181888177	3.335900911
0.23307944	0.673119342	0.331605476	0.156871552
2.553243249	3.730841593	0.189283335	0.608252371
3.917685234	6.47544792	0.346093359	1.132077025
2.489743351	5.502206159	0.183317736	0.63293104
8.152838372	11.16734477	0.57363834	1.94846332
0.822301718	1.703745119	0.595966498	0.234426955
0.821581726	1.048924365	0.291461934	0.207697113
1.018925676	1.747241554	0.467998872	0.351162372
1.722113772	3.359345637	0.216421378	0.469839595
3.093970834	5.338077661	0.216421378	0.86543034
0.156504171	0.998102875	0.384139707	0.091909152
13.87113965	19.3605147	0.995849585	4.077536517
7.859478357	9.281556404	0.819343578	2.060717286
7.676653188	10.1235272	0.362583759	2.069610347
0.213688727	1.898879941	0.607805845	0.184916597
0.280795718	1.287398426	0.667101411	0.289241571

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1.268135979	2.330680501	0.119764967	0.365008807
0.472867381	1.920294496	1.258332433	0.280530462
0.255434318	1.523105543	0.396497438	0.140828799
0.207597801	2.06019422	0.244434149	0.120119672
0.568992762	2.169351416	0.350233744	0.260549708
0.169865383	1.060392248	0.432658065	0.18665575
0.116748349	0.881578691	0.358113257	0.107654175
0.347644842	1.64355807	0.536628454	0.466339486
0.550308413	0.872699576	0.473194547	0.320491286
101.5716699	137.0843488	4.979004049	22.83281396
0.245350322	1.697857241	0.510244214	0.162451865
0.198133295	0.67849314	0.321195913	0.175112481
24.59158541	29.6706142	1.506785257	6.14000921
0.630541857	2.179418902	0.286046229	0.227064667
1.249722487	3.357200684	0.497790013	0.425152568
16.70501761	22.14657708	1.117360054	3.835187377
0.419851732	0.873687617	0.350301799	0.292530172
0.167082614	1.376642914	0.281154768	0.126523342
0.497241395	1.966953605	0.532732262	0.218356908
0.451030301	0.893541116	0.381197281	0.21906332
16.0147134	23.37901168	1.239724296	4.823918437
8.863476122	9.92352827	0.660353435	2.225874137
8.749467169	13.60745913	0.778922355	2.660998916
6.440158355	11.79173466	0.540701437	2.276371969
1.179799464	2.779577353	0.669790772	0.38668074
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529.1752607	527.3127755	26.57197175	142.9246431
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2.861855078	5.088031825	0.625508245	0.740906036
0.225320348	1.334662302	0.335199832	0.141321023
0.154800291	0.932650054	0.364827008	0.219092452
0.179958798	0.78866009	0.331113325	0.161009993
4.683116261	7.73736076	0.401497465	1.359334339
14.32886174	22.91418038	0.93049544	4.703927559
12.34522896	25.06813403	1.349755371	4.083158717
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0.154689087	1.069377854	0.580766828	0.148971091
9.323339496	14.09760782	0.831865128	2.881789939
3.834909408	7.509990142	0.534943992	1.079255139
3.910172638	8.264846834	0.558693778	1.429386675
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37.44434238	56.01635878	2.141738581	10.52549496
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0.409026162	1.698561841	0.592183833	0.242445908
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0.190466541	0.839274886	0.334118451	0.16043112
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1.827840982	6.504771739	0.262664331	0.575955022
1.660117605	3.606611327	0.116571702	0.451422291
1.506666176	4.114334185	0.189898275	0.596617007
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1.139980523	4.000215298	0.144088141	0.382755998
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0.196227897	1.521104189	0.474415809	0.133463886
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14.58566821	18.57640995	1.321042639	3.941862915
0.381620834	0.981600909	0.456899946	0.247803244
0.56136468	1.692708207	0.351804766	0.325935139
0.247027904	1.161228716	0.30280993	0.09275879
0.332815785	1.523105543	0.385259544	0.216631331
0.37699885	2.669246181	0.148351278	0.163319163
0.34108603	1.184951974	0.336054417	0.157639147
0.326293797	1.006271424	0.47509453	0.130145464
0.311469173	1.538567552	0.314767296	0.149688835
0.765847018	1.513734323	0.169817601	0.283440163
1.355781254	2.7154652	0.178982363	0.333246357
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0.633826411	1.473730118	0.346343024	0.146246898
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0.00044686	0.18566746	0.054649308	0.040792781
0.02364451	0.069563896	0.001204152	0.015065141
0.021354493	0.048613026	0.001082861	0.000502613
0.010152942	0.140266206	0.0687617	0.011399382
0.000396752	0.07017848	0.001082861	0.000502613
0.008910172	0.104661452	0.110297809	0.000483286
0.000389807	0.073026014	0.090347988	0.045013731
0.041571575	0.065117155	0.006748739	0.034535979
0.010346293	0.185691461	0.00094086	0.042633197
0.036777723	0.113868479	0.00094086	0.000440634
0.041935075	0.19134046	0.030768854	0.031886035
0.01951035	0.247244076	0.002088031	0.000986331
0.000790551	0.110751095	0.002088031	0.0232612
0.000790551	0.001902263	0.002088031	0.000986331

0.030676372	0.095430473	0.00162422	0.013497415
0.000611323	0.045134944	0.00162422	0.000781998
0.014530327	0.001457247	0.00162422	0.015616651
0.003645205	0.206296425	0.045950846	0.000703187
0.000563882	0.100124154	0.001487501	0.071847676
0.000563882	0.207530986	0.001487501	0.000703187
0.029982962	0.245261669	0.048548347	0.000695904
0.019145374	0.250290073	0.001484527	0.000695904
0.05427099	0.360932495	0.033088454	0.014565743
0.028110107	0.248602395	0.045296413	0.027254199
0.049514466	0.234986626	0.035530046	0.000668863
0.276177889	1.102813895	0.548576677	0.33323135
0.08140265	0.759202544	0.049762316	0.043679344
0.040443443	0.628241741	0.001127876	0.001037116
0.02690032	0.531993473	0.107003747	0.000593344
0.047732339	0.402645898	0.041297824	0.036371145
0.052932062	0.253172256	0.092247971	0.01270733
0.063227504	0.383229055	0.001048791	0.053745191
0.027430265	2.014741783	0.002088031	0.000986331
0.000790551	0.371642741	0.002088031	0.000986331
0.080228027	0.319113224	0.00162422	0.02550642
0.04907776	0.727988466	0.087544084	0.052244368
0.085203054	0.592221554	0.098301529	0.059159405
0.121337982	0.741039397	0.086803476	0.096134387
0.047136204	0.220236208	0.001347759	0.000668863
0.236935703	1.222965577	0.66521486	0.31505863
0.097195237	0.836683535	0.296687833	0.026718139
0.124951905	0.841175186	0.115526399	0.065486608
0.028626569	0.100600666	0.001127876	0.019249413
0.012997799	0.164381455	0.062425483	0.018757189
0.08008715	0.323833429	0.064468736	0.06650294
0.010214291	0.249177101	0.001204152	0.000593344
0.013470102	0.260092821	0.035016394	0.021497051
0.023237533	0.097349365	0.001204152	0.028464954
0.010152942	0.097135298	0.001082861	0.009129222
0.000396752	0.183397115	0.082493638	0.05090017
0.000396752	0.031540375	0.001082861	0.023204215
0.025240873	0.1732049	0.092247971	0.015326768
0.018495584	0.12838803	0.001048791	0.011834184
0.009620203	0.09587383	0.03999844	0.058984067
0.009056955	0.130008475	0.00094086	0.000440634
0.020338663	0.139692473	0.104912724	0.051788187
0.021305666	0.140499473	0.059744619	0.000838677
0.000790551	0.428658796	0.002088031	0.000986331
0.000790551	0.095201262	0.002088031	0.000986331
0.000790551	0.195411298	0.002088031	0.053555021
0.017870888	0.241022796	0.00162422	0.000781998
0.015087087	0.001457247	0.00162422	0.021267947
0.020097929	0.09675404	0.00162422	0.000781998
0.000563882	0.084074858	0.045950846	0.029923245
0.000563882	0.037161529	0.033824479	0.000703187
0.015456944	0.16308678	0.074245702	0.000703187

0.060431424	0.315659327	0.05392707	0.000695904
0.000566651	0.070524625	0.001484527	0.000695904
0.04237968	0.711538563	0.046517209	0.02483735
0.000522266	0.701326735	0.001347759	0.000668863
0.025256192	0.168042425	0.001347759	0.000668863
0.208221909	1.282479961	0.592005788	0.252059867
0.012489543	0.450401492	0.001369878	0.042467829
0.156134449	0.744098921	0.001082861	0.036371145
0.204554058	0.777345663	0.086417049	0.067699355
0.082871558	0.685224339	0.063153533	0.010789753
0.082226889	0.486702388	0.055483477	0.000838677
0.108622796	0.497794711	0.106080372	0.048818017
0.02343849	0.14307887	0.00162422	0.000781998
0.155143589	0.881601446	0.043256098	0.060413741
0.090363811	1.121461089	0.010897291	0.023326937
0.174135401	0.930525524	0.031867658	0.059881656

Octane ng	trans-1,3/1,4-Dimethylcyclohexane ng	2,6-Dimethylheptane ng
11.89336398	16.97832113	5.56352337
1.072034181	0.280456972	1.067640558
1.847482515	0.15382627	0.578535786
1.259449686	0.430436444	0.899760572
0.621387001	0.550480757	0.505003612
4.030480688	5.076169395	1.253449055
0.632624186	0.946359791	0.420987159
0.935384416	0.235526581	0.510139241
7.088143392	3.778953224	1.860597997
0.338514447	0.205753135	0.388983462
5.757193183	5.596205377	1.912278912
7.94339927	3.587297759	3.491556206
0.802280575	0.290690513	0.960723238
6.343709133	5.800330923	1.755929009
5.586228039	8.096673733	2.940793006
4.116328807	9.356029868	2.652762046
0.519590816	0.370152182	0.446390324
0.554222508	0.312488975	0.429441903
0.956160021	0.427815389	0.829142154
0.6285703	0.14953609	0.372710149
0.818111541	0.225388019	0.437802866
0.594056007	0.247737999	0.461579825
0.635516799	0.191016338	0.697641788
0.790339021	0.170208043	0.549290965
0.747825715	0.246343663	0.534402282
0.603409654	0.225987871	0.390558063
8.589677191	4.096367362	3.041668696
6.093358252	5.405213794	2.599284178
3.955499501	2.104628993	0.927685947
0.489429259	0.190287177	0.543694908
1.626011435	0.320893143	1.762870077
10.50399959	4.494570022	4.480706421
1.925574506	2.000463705	0.890400693
0.563649522	0.170223629	0.330450122
3.176296441	2.55424475	1.32729428
0.456194891	0.172107238	0.406431615
3.742307467	2.922804244	1.639479112
0.871019748	0.273822124	0.439467047
1.689424211	0.354189441	1.04814488
6.389939614	2.304980493	2.819669917
0.709837801	0.18654824	0.435337618
0.51644248	0.402653263	1.173760037
2.936463124	1.534424752	1.007806753
0.753617097	0.221800477	0.549493215
1.870226795	0.334505836	1.134919907
0.744955273	0.283496807	0.377487596
1.285390602	0.38765143	0.511540029
1.068759492	0.281707203	0.682186253
1.18925235	0.334406499	0.842135846
0.65333943	0.505310672	0.605984662

0.373732689	0.171364745	0.36437964
1.040306242	0.262057012	0.943891218
1.008629316	0.29477195	0.543694908
1.291526783	0.31273027	0.629521319
0.553653743	0.153271148	0.666585642
1.098423736	0.368002573	0.702924617
9.964680329	2.617031717	2.971632904
1.544485405	1.068077251	0.715312904
3.176786076	1.455793107	1.120090039
1.86917735	0.604474487	2.489381179
0.586755309	0.257971034	0.505003612
0.76989491	0.204983407	0.40018047
0.824500872	0.206142115	0.455959302
2.523429124	0.597048895	0.442220246
0.44749693	0.173054479	0.406623601
4.861624929	1.707848091	1.348997944
0.516920115	0.147741795	0.335886499
0.626710216	0.170537122	0.427098777
19.0765943	6.938011323	6.153628638
0.663325385	0.142397936	0.412373415
55.15683888	104.1228385	45.0291026
0.39996863	0.085461224	0.091769126
0.589529022	0.117458351	0.516532425
0.442179711	0.158138983	0.43368481
1.396711121	0.551418241	0.545892607
8.099654245	5.538571693	1.899104505
0.749292925	0.197633866	0.545887669
1.966118948	0.358817919	1.146659119
12.28503504	6.875191411	2.157728743
0.672156568	0.1555653	0.464702337
0.947888329	0.244263455	0.539916609
24.40773061	10.79715964	7.987015627
15.96008673	11.47655564	4.235618765
0.584269907	0.269438084	0.390558063
0.71547258	0.203913139	0.333983755
0.623310472	0.227097089	0.32367131
0.741912529	0.18072919	0.391929875
6.524707138	6.349131735	2.695533664
2.233408937	0.683324697	1.333738023
6.837981237	5.445544707	1.87840563
5.891106774	2.999131719	2.112777752
0.88726289	0.213546636	0.369266754
0.791053511	0.161433453	0.496453167
15.95339018	9.948223639	6.775785871
8.587779403	5.404843952	2.28740693
15.22778704	13.19303909	3.258102232
4.954188557	0.628718489	2.760373701
0.727819454	0.230118039	0.553150994
2.83014409	0.949037992	2.520111542
41.74232252	60.03651976	11.53603668
28.97165899	72.86308351	10.04385971
3.007528328	0.458549966	2.470651862

1.532103472	0.455239473	0.88576655
0.714717153	0.298120934	0.559875408
0.734052363	0.333137452	0.696641973
1.410791852	0.177130195	0.581519405
0.805162162	0.355730624	1.046912015
31.59350588	78.86443574	14.75936695
1.094033585	0.768867094	0.69701267
12.26812989	19.5143369	3.900337186
1.464091501	0.259543667	0.827729785
0.814786256	0.259543566	0.579931918
0.710039781	0.173489331	0.40734664
0.499715508	0.209419192	0.342253923
17.07459831	17.82347918	3.316811939
1.539940579	0.256718929	0.578361801
2.098214959	0.154619939	0.532148613
1.102936855	0.578760933	0.791921366
1.768978641	0.943629451	1.203290183
11.10690115	19.2785845	3.910824887
0.910477772	0.275231446	0.689973767
0.47778054	0.31273027	0.474373576
0.61756517	0.367421518	0.669133508
9.26923535	14.20757241	3.322049874
0.394575402	0.164165984	0.560199987
1.755811449	0.125800482	0.62842098
0.828906219	0.241713276	0.765963305
0.606300489	0.134311756	0.451493176
0.499681881	0.158138983	0.442976131
25.20405184	36.11342496	8.123801736
0.700939478	0.121526414	0.494078398
21.02365124	61.79929079	13.30812293
1.015134674	0.172158595	0.329115944
0.589498201	0.22228297	0.564405215
0.634389548	0.177037959	0.336879295
0.565129874	0.230248821	0.377271981
1.055909942	0.215123044	0.782574134
0.595984416	0.10924261	0.42598318
0.731153831	0.253832413	0.484773336
1.046252448	0.179360959	0.287360418
1.093553614	0.400202536	0.869405036
0.590095048	0.176744295	0.56835318
1.478845046	0.303784443	0.71342527
48.6258674	100.9022015	17.12347832
9.776820892	6.786682781	2.354240841
0.889220818	0.225257093	0.535321967
22.16270343	9.508206516	9.541163645
1.557783222	0.213143221	0.614116578
1.82903197	0.343749187	0.686738926
1.154967031	0.288898157	0.544406389
0.571559594	0.176735843	0.391099587
1.104652632	0.161625894	0.656676521
0.818682699	0.372773237	0.574915846
1.990912994	0.598183955	1.185058984

11.29424474	12.13030114	5.647436866
1.158953248	0.248897682	0.355989084
0.838063251	0.236033904	0.735198949
11.32434932	15.93560894	3.429679127
1.388397909	0.215185713	0.60143043
13.37651448	2.57143538	2.354447046
18.76738159	8.625054655	3.989394714
5.921285627	2.088828581	1.904805212
0.431105454	0.19243438	0.43597522
18.56393445	2.662190038	3.229999617
27.46118626	46.48313127	9.454378121
1.843332404	0.634006066	0.929942637
21.39000722	18.35383074	5.46862659
0.45112384	0.348889903	0.362743489
11.44898898	9.96462905	2.74334376
1.346531141	0.477171486	0.404738041
0.818107688	0.158536587	0.518723255
1.636123837	0.251230376	0.508906346
6.726406179	5.402637799	1.555271887
0.896775089	0.34117684	0.634026798
2.174957777	0.963463482	0.911971745
2.060888282	0.660232144	0.704740707
0.535680926	0.255801026	0.542196931
9.252594322	20.54685945	4.82731308
1.111803686	0.364156369	1.027843892
1.316488324	0.290690513	0.954121206
0.652511328	0.145391377	0.597611499
0.62921389	0.109474736	0.465570867
5.425346873	5.332568022	2.235768658
1.976802877	0.410697711	1.481734924
9.746022648	9.377932279	3.629863885
16.88425883	17.55091172	4.512735803
1.691653955	0.681175679	1.616005445
1.127413908	0.290641613	0.648159476
0.234932305	0.127337933	0.348514365
2.393849985	2.361425273	0.784515205
10.78474397	18.51560113	3.695329616
0.636582449	0.181888969	0.458510185
1.00233561	0.264261566	1.124327144
6.28629222	2.336991751	1.728114625
0.565766405	0.262688933	0.548080847
0.452426323	0.181960443	0.547374663
0.741562088	0.600741103	1.053723195
1.397744868	0.618283115	0.872210864
1.054206772	0.204983407	0.369127063
1.109073974	0.287045436	0.580529099
32.6901364	6.075745297	8.99062758
34.88405907	31.80436144	7.524703635
1.056874146	0.316276673	0.495927465
1.390488888	0.178726645	0.761341047
30.57049272	33.75516939	7.382645355
10.18411234	9.925968448	2.517354378

19.35781679	20.21759048	4.698270825
1.016243056	0.445211567	0.627594413
0.479408375	0.175616585	0.330372171
13.22756486	8.662033947	4.356382533
15.76502568	34.57685163	33.16653694
0.893834513	0.219780697	0.529630931
11.31789222	8.263463559	2.133259876
0.654175431	0.20742921	0.820980235
1.446288338	1.068612294	0.939816804
1.403021667	0.707813315	2.797188362
2.012083272	0.182124305	0.826481928
4.095908173	1.202441359	1.053926081
0.844780826	0.385582924	0.916003153
9.885963564	9.298820701	2.609069039
1.208377313	0.425766583	1.440440635
1.172142612	0.190943328	0.663282099
0.605102527	0.176735843	0.398842355
3.801264832	2.013756952	1.005875346
24.71049155	39.28302734	10.56587068
0.662604697	0.338296067	0.406585123
1.101058747	0.246474069	0.675259164
4.589339323	5.546211325	1.937145144
7.608593179	9.251334479	2.386278288
18.16286361	20.45477138	11.40778129
1.109379021	0.571973407	1.526852131
5.258885364	4.971151888	2.104510797
10.40241407	6.474965978	2.031678663
10.33840233	9.107604574	2.618707478
1.877214796	0.441410765	0.971085401
13.0734492	6.588078504	3.105409904
16.07050173	4.703224474	3.067628955
8.380971194	2.23725026	1.561328811
6.365783881	2.641864776	1.120430012
10.7968041	6.901345729	3.764143781
1.049448979	0.267369026	0.535630152
11.62956834	13.56065148	4.005907248
0.620288763	0.376136764	0.338894443
5.414984698	2.214292754	1.358353294
11.74168683	3.184706637	2.206429129
5.788165695	2.190004807	1.630405415
11.71600231	7.046490214	2.713212142
1.749155038	0.553535019	1.628628768
2.428108959	0.461294556	2.808191748
3.671087536	0.704540714	2.61072081
8.394093444	1.471797446	2.307620722
5.467828937	3.251807949	1.518899785
0.676102044	0.114343228	0.333753665
13.54069494	15.40582099	8.567462328
6.581734364	7.604438086	2.324468694
4.716507711	6.572312338	1.874613888
0.571559594	0.233688728	0.28966933
1.027346335	0.121086455	0.676879343

1.428639787	0.326294942	0.435279424
1.396927008	0.656371373	0.406137825
1.999308556	1.199453941	0.511359269
0.807396216	0.405121084	0.646585974
1.696818087	0.220508656	1.131727061
0.736758267	0.259555012	0.475318881
3.170410314	0.422157107	1.788023235
0.647794408	0.175616585	0.400955561
0.670301452	0.232198248	0.478707576
1.518900374	0.206403666	0.828315927
1.42309013	0.418410245	1.206997606
44.33190674	85.0958415	19.18012061
1.109364709	0.171778557	0.560717807
0.780660356	0.157708964	0.36001657
20.92233166	24.47079318	6.408868255
2.746229172	0.655938078	2.130877757
2.158338381	1.052519288	3.215575535
16.26291815	14.01713101	4.144186655
1.300838275	0.315889391	0.586474719
0.64361576	0.179641674	0.330450122
1.831864072	0.52559786	0.810289771
1.961809208	0.364863225	1.060533167
14.55656662	19.28326637	8.608498997
6.925549424	7.82760041	2.382539452
8.715304478	12.10894635	5.423898623
5.556229578	9.67468161	2.9697555
2.816202568	1.110296601	1.760207186
11.40949821	7.795650044	4.442585777
56.90628171	403.8658219	109.6281152
8.029420707	10.30604696	3.454734964
0.907766279	0.250964005	0.606812356
2.38093979	2.400126326	3.679505166
0.934496514	0.242687582	0.386445309
1.03259242	0.13755947	0.325532858
1.277832185	0.221839391	0.29985408
10.05193752	5.374430796	2.285751765
17.95937826	15.91662418	7.138136558
18.76179692	15.40523684	5.637912197
0.70531241	0.226373665	0.510139241
1.145450161	0.140253045	0.47760471
13.54349707	11.76362437	4.465566213
4.927328183	4.075676784	2.370846627
6.331187028	4.682324527	2.46028957
0.770674401	0.199917743	0.460912572
29.38015467	37.56539964	25.40157332
13.91208201	11.18649317	5.166217369
2.080311485	0.473538865	1.103767256
11.13802273	11.12200648	4.850420191
1.372058206	0.216058114	0.571608775
0.563649522	0.202244982	0.413038702
3.916269173	7.559108239	2.472355558
6.028275974	7.471935456	3.61209097

0.643437307	0.181385058	0.403488016
13.84884762	28.74387035	12.47733181
7.831075563	10.547184	3.996378236
0.991947623	0.284453301	0.564146111
6.546746177	1.478497376	1.25176042
4.367853218	0.878779199	0.598444525
1.938157019	1.501759389	0.525279085
0.508241811	0.16454623	0.378520986
2.457863221	1.296143368	0.92620972
0.763184935	0.119224489	0.409646496
1.051895987	0.447417672	0.311523463
1.506196037	0.328239728	0.486477301
3.186710386	0.40687199	2.406542032
0.517651309	0.202887678	0.364774177
1.201687545	0.20346883	0.619511236
1.954182412	0.969325324	0.515596374
1.422567572	0.399805323	0.535943
3.196436889	5.558819062	4.361278112
1.154649997	0.542550341	0.800379141
4.030286786	12.21908693	5.788285032
0.837507132	0.479515975	0.482464247
1.416122722	0.492301317	1.172344853
1.446288338	0.195184901	0.556898971
1.149808714	0.23736464	0.582917822
2.646429576	0.330741093	0.710875895
1.755922377	0.329511727	0.597096878
1.079406844	0.214401147	0.871041187
1.237097444	0.203209093	0.605610696
1.821952316	0.435678554	0.723214526
4.039972104	1.159990964	0.992817699
1.11714039	0.560872892	0.811465702
1.276754931	0.202441142	0.53826838
2.554059155	0.987082064	0.787990854
8.121115384	1.383788308	1.544771982
0.666371342	0.13713076	0.449714276
0.65962191	0.158401383	0.429105692
6.572148567	5.827126216	1.400151668
5.174211051	2.749250167	1.097966532
0.78033589	0.16687971	0.438452987
1.017826788	0.1804686	0.397648052
0.657500244	0.121293547	0.287480525
22.36280567	5.596434256	5.918568222
2.099415065	1.218854925	0.644339243
3.130360318	2.773836429	1.186292651
1.608208501	0.470973199	0.45268122
9.217250507	2.958709917	2.546686128
0.389722629	0.255553555	0.481740947
2.335131021	1.617774297	0.617993082
0.830226597	0.224945743	0.591864267
1.513096094	0.217403606	0.427650791
11.53633623	1.156459361	1.578418367
1.488890982	0.204739499	0.983819956

3.285286537	0.225957623	0.78861277
7.716627487	1.496346831	1.780475495
2.311621766	1.766537922	1.002536104
0.857195966	0.160900835	0.593210145
20.82009708	0.875321264	5.276680166
1.387371637	0.210442653	0.754235395
0.782400886	0.311563081	0.47936714
1.018077288	0.321400562	0.65824558
3.812749871	0.375394292	0.82349268
11.58074328	0.852426277	2.958993664
6.057238455	0.597521576	0.873751506
13.46136447	1.575497548	2.082788438
2.439188398	0.416920735	0.834933119
2.957684006	0.507201771	0.593405584
1.991457404	0.545450393	0.383468073
2.963950043	1.181259939	0.828682606
2.400374042	0.314005782	1.520551557
0.872248027	0.156395527	0.5273723
3.788087251	1.175735934	9.803982337
2.919158323	0.691110032	0.568469123
7.061957486	1.838172861	1.687417467
1.976177208	0.274846661	0.833299804
1.652991638	0.716131424	0.548787031
435.1179382	0.633830302	0.668132159
0.592625865	0.423194673	0.971283332
0.576700327	0.144220968	0.361034915
2.732613565	0.351602198	0.786958472
0.69328325	0.227643117	0.48927253
0.869579713	0.244393051	0.385054911
15.15849497	20.43502809	6.278659694
0.629871563	0.244312249	0.482413109
0.964966423	0.479010167	0.914877109
0.257693581	0.015175619	0.022543843
0.272727454	0.213459506	0.111597481
0.030850331	0.000493703	0.020373423
0.072416393	0.028439151	0.000666454
0.035006937	0.011583166	0.020373423
0.001070267	0.011870426	0.019432021
0.025175378	0.000526093	0.023803539
0.001070267	0.015179189	0.039416103
0.025099522	0.01710472	0.021569843
0.00092529	0.000463054	0.00888689
0.029267493	0.000463054	0.028187035
0.000923701	0.000460572	0.076416996
0.051685639	0.031082627	0.064963936
0.000923701	0.010805861	0.027877838
0.030300182	0.003721576	0.013315822
0.042387016	0.003721576	0.096306451
0.03332189	0.019913541	0.017244372
0.148288196	0.000908528	0.032037459
0.058426647	0.023764572	0.001227978
0.001847154	0.000908528	0.001227978

0.001386914	0.041510347	0.000921689
0.001386914	0.000698819	0.07525141
0.001386914	0.026441475	0.022394719
0.001329738	0.019243682	0.020221012
0.036070632	0.029123264	0.000864093
0.039664518	0.031447872	0.000864093
0.051606572	0.017605251	0.035710327
0.032887344	0.01994381	0.041130838
0.046291028	0.034132949	0.157560991
0.085120501	0.030463472	0.021267443
0.027401014	0.019455042	0.005731391
0.384331003	0.355684504	0.546067193
0.125311484	0.022917842	0.08469322
0.14474134	0.037310721	0.141003963
0.078206623	0.070010128	0.101241855
0.095121437	0.058708884	0.082778876
0.033378055	0.023220208	0.044239352
0.053349965	0.032324062	0.110776175
0.288072826	0.000908528	0.010030687
0.04178562	0.02131571	0.03093712
0.025126891	0.022046388	0.024046491
0.202530348	0.039236915	0.250982049
0.001298646	0.015851333	0.051197501
0.787199343	0.123773025	0.202050595
0.184817795	0.000583447	0.033978758
0.473908586	0.2488377	0.302363386
0.1706399	0.094149044	0.187381471
0.123152988	0.030359908	0.138206816
0.07075375	0.03464925	0.086063321
0.143078698	0.039085035	0.060981724
0.241174604	0.01956758	0.06516199
0.023246969	0.000526093	0.023179037
0.145700935	0.079936419	0.045036626
0.001070267	0.059138476	0.025052544
0.106791756	0.013776387	0.031495632
0.075115176	0.010864095	0.02101841
0.025933116	0.010864095	0.066235894
0.000923701	0.035220743	0.079143915
0.025056426	0.041014105	0.000608648
0.000923701	0.017426846	0.035513211
0.000838524	0.032425513	0.033449643
0.055984704	0.028377522	0.025101473
0.136815406	0.057817458	0.025592542
0.29639334	0.000908528	0.026535766
0.001847154	0.000908528	0.001227978
0.001847154	0.004989964	0.001227978
0.120086798	0.060346437	0.081032611
0.036372143	0.0176513	0.000921689
0.001386914	0.000698819	0.035608892
0.052842099	0.047138973	0.069000449
0.001329738	0.000646822	0.000864093
0.069613565	0.018081379	0.027189503

0.060966186	0.056191463	0.115469274
0.03054744	0.015851333	0.049648783
0.199510028	0.065585607	0.112365203
0.255130624	0.038326637	0.074937441
0.001164884	0.015785565	0.000788102
0.586150377	0.274884931	0.410113734
0.067032093	0.015475776	0.110003704
0.24766918	0.13650867	0.156670862
0.406052083	0.153982419	0.031495632
0.111130884	0.039417498	0.128716992
0.126994853	0.0386815	0.136574093
0.127583633	0.084205485	0.088465583
0.100095239	0.000698819	0.021568834
0.164252554	0.111646832	0.100745797
0.300806296	0.139794921	0.139474394
0.417794631	0.086029835	0.234535068

trans-1,2-Dimethylcyclohexane	Ethylcyclohexane	Ethylbenzene	m,p-Xylenes	1-Nonene
ng	ng	ng	ng	ng
9.339033175	11.17140467	103.4326416	497.741401	11.38782129
0.469001998	0.168905908	12.06437758	0.437108937	1.814268493
0.487930507	0.104338505	1.326616437	2.737365697	2.07215998
0.502276312	0.203236532	4.982286985	0.548560727	1.452405724
0.801222359	0.178564977	8.909652561	1.418635195	0.626147203
2.76339541	3.405908718	33.69205724	176.7414721	2.460189516
0.716670711	0.960218356	1.456680105	5.783614656	0.766097617
0.503284566	0.116496426	3.638640419	0.367203451	0.812646128
2.096335735	2.809263888	44.31135035	240.0538027	3.241364125
0.382912374	0.254011111	0.457632742	1.81918862	0.507751445
3.121773744	3.264986096	46.50346309	231.913482	4.177703541
1.67771763	2.66554945	73.88161433	365.3171925	6.491077764
0.626438008	0.144201741	3.04987953	0.560704308	1.189448456
2.553943307	3.608906558	46.98382001	222.2974085	3.079060842
4.386427359	4.729588543	54.34984236	240.3187991	3.737508241
5.801882997	5.666735835	38.44754201	211.1721334	4.21617437
0.385788389	0.191142632	1.911407296	4.27086164	0.666600496
0.507030921	0.226940575	1.129421415	2.170716468	0.520968639
0.680574153	0.188723852	23.79802969	5.862934131	1.920652597
0.364939888	0.121092559	3.224841096	0.221285123	0.982005152
0.359477689	0.149336003	1.77618233	0.24977936	0.438792881
0.399046677	0.128615294	1.619695715	0.332770208	0.935693175
0.333850165	0.126052573	2.276108648	0.209910975	0.663594807
0.300307019	0.114220527	2.811325226	0.224415648	0.626506462
0.547453275	0.163910982	6.052522309	0.362579846	0.963176467
0.351588948	0.153463458	1.513254278	0.265364893	0.75008832
1.830710885	2.98100034	72.24720231	361.4079949	7.174621875
2.255253553	3.275750391	51.49883406	269.4572984	4.985727576
0.839749778	1.577346558	29.80744932	156.8685965	2.631458595
0.432126101	0.273141558	1.110117092	1.053219817	1.819872591
0.56606926	0.163163479	16.03370517	0.424465111	2.138976165
2.102642549	3.275163896	86.48035405	526.2964111	8.096095089
0.763955905	1.363773303	12.89067353	70.00042218	1.545804932
0.36737187	0.191457894	0.475661683	0.176056517	0.847948015
1.522824815	1.764104676	27.07433828	145.3232986	2.488306359
0.395954503	0.130003516	1.445927874	0.815379158	0.616832234
1.352043582	2.186676681	32.17824022	171.7127898	2.905442158
0.345934895	0.134100475	2.608738437	0.343658182	0.61570484
0.484560666	0.17331422	24.12745814	5.595177006	0.861476743
1.404921454	1.859505281	68.68983586	351.7186578	5.301154516
0.350936855	0.209601567	1.414766519	0.16849554	0.628106175
0.741195419	0.209041604	5.791219677	0.377420455	0.655475841
0.882050714	1.157203335	18.51037854	102.6404181	2.355525503
0.414316043	0.149539618	3.643928717	0.310234528	1.11765472
0.52723801	0.202752776	9.107790876	0.408506481	1.735578779
0.233847114	0.170316848	4.457422073	22.3705256	0.806695738
0.474273422	0.201652851	13.63627494	3.183962296	1.207791544
0.367304498	0.135841565	7.025274507	0.418879038	1.05058118
0.409792996	0.144085848	13.24462745	1.87490413	1.073738265
0.467073171	0.123455107	1.353052901	0.383350211	0.488868313

0.290613277	0.091571234	1.364848183	2.592968259	0.51844039
0.33402731	0.109702288	9.363565918	0.520922283	0.853241652
0.947146982	0.185159095	2.999210942	9.747659346	0.607279008
0.631154317	0.124481534	16.30055973	0.86075492	1.902372539
0.41524778	0.176240619	2.692054059	0.793536334	0.975343543
0.636763187	0.160438065	1.976654952	0.408766598	1.76790156
1.149821453	2.389183486	84.5198042	442.8586787	6.429675961
1.289876355	0.758594005	8.698651246	46.38496959	1.23351678
0.511191204	1.044971946	22.11385402	131.1757186	2.274618916
0.912361347	0.19985024	16.3525202	0.360373279	4.96476294
0.494550072	0.172759905	1.43878137	0.200597791	0.647385182
0.324519616	0.209050715	0.99974135	0.607074737	1.926865285
0.422450553	0.135022097	0.757274044	0.326336184	1.091311078
0.453098486	0.519857413	8.342234254	43.25905108	3.417193026
0.428022905	0.194391807	0.719655057	0.319289395	0.536864059
3.692306401	1.133629164	27.50898009	134.5259978	1.774352531
0.400555098	0.11611711	0.316139292	0.175459829	0.365101626
0.318791428	0.175969721	2.171002103	8.273275331	0.708194545
4.649911755	4.92966764	200.5966	1045.807072	19.07738255
0.415336239	0.132082508	0.632253931	0.220091457	0.404259318
58.14645474	74.20101369	417.2809836	1687.627874	67.27056106
0.255185034	0.06445218	1.291433156	6.36681675	0.861476743
0.405702531	0.170407019	0.369440004	0.320393936	0.554156875
0.27157932	0.188562579	0.438865942	0.238075175	0.688227712
0.482377165	0.446295651	8.09280552	45.3656538	1.002581375
3.439065439	3.55468848	49.11684199	203.2952389	12.67341472
0.558973164	0.127761054	2.89925309	0.308259638	1.186359138
0.662618902	0.139293299	14.30036522	0.369842446	1.068014985
2.681481843	5.086626771	75.32220054	353.7607936	6.283544336
0.302087761	0.136730578	1.649125534	0.30703411	0.93942055
0.371274719	0.137738147	2.815255956	0.362579846	1.011734641
6.285415147	8.040796334	211.1079409	1082.360145	20.79433468
4.843232375	7.850758793	113.8256871	548.5083681	10.51456927
0.486474521	0.183471809	3.262601852	0.5636208	0.810875365
0.356523092	0.080100479	3.378433892	3.608087242	0.617039164
0.365607926	0.119793815	1.595714229	0.665494302	1.234691044
0.500150003	0.13224003	2.349005748	0.231057787	0.581785061
1.819614097	4.131511799	58.63795274	294.270852	7.111549972
0.992423543	0.59928345	8.280988987	47.88652495	2.190344058
2.449762849	3.658191001	48.03851868	243.4816796	4.571946345
2.124337567	2.25350546	42.21543122	208.1876182	3.432513094
0.425251702	0.151073589	2.834084235	0.554945494	0.747609944
0.38094862	0.193799013	1.975342894	0.369701549	0.779176978
3.306279748	6.592669398	132.0308135	721.7690016	13.73852788
1.934052952	4.140664619	60.66504846	320.9633558	4.992695596
3.810440253	6.131362822	67.78279258	337.9735353	6.177314151
1.303996557	0.335341479	53.7511664	1.205652892	2.655876699
0.35440128	0.094875389	2.040902175	0.323687168	0.67911115
1.070529889	0.153290121	47.14499281	0.96582432	2.646526495
24.60649614	33.61469055	210.9387126	928.7030618	20.52240891
28.56182879	34.3422195	150.0546035	634.5979907	13.78010646
0.718828779	0.191349001	27.73116407	0.2670112	2.027437723

0.45829637	0.177845243	18.40988874	0.347405846	1.588785259
0.561148179	0.144686245	8.503537342	0.491863788	0.437948322
0.361381474	0.170748174	5.600198452	1.833351407	0.817420386
0.382377752	0.162193905	3.077470819	8.242359187	0.513111982
0.457789215	0.182154734	4.595165424	0.651222162	1.684340792
29.33614248	41.28372327	166.562848	790.431412	22.90854471
0.617762214	0.234279038	7.655058358	8.096848505	0.986513579
6.031886703	7.486666645	45.63577797	247.2041433	5.66966158
0.68414011	0.152442154	4.591822413	0.248396734	0.756609075
0.383511364	0.154581215	4.504300706	1.402678516	0.929330023
0.271536286	0.110198659	3.298320627	0.305650412	0.591056927
0.332166694	0.135214281	4.33771803	0.73418138	0.873362698
6.702183074	8.277799391	71.56363952	313.1910838	5.210007332
0.3344074	0.182432441	19.50534871	26.40619572	2.063224087
0.416320966	0.1794426	6.119387182	0.246983212	1.025150173
0.482440906	0.144565843	7.451862136	0.434109737	0.380478381
0.871026285	0.154807387	9.827057369	0.580705215	1.219725486
10.54149204	10.08872583	62.45477182	331.1431743	6.50447341
0.321563049	0.184222018	6.664146765	1.632073884	1.362887455
0.402884989	0.169231235	1.727429387	2.601048468	6.4912376
0.421750222	0.233701144	3.065924583	0.581788946	0.848552442
4.972987862	7.335251206	53.90551892	301.2238518	7.425199281
0.40948782	0.09869357	1.870990386	0.389324049	0.78628833
0.758494645	0.129032351	3.73306099	3.358473526	1.913268759
0.490608325	0.107795204	2.248049127	0.355804881	1.306193666
0.304133497	0.092444908	1.988221456	0.587153316	0.574101297
0.184334124	0.157591329	0.96592452	0.373590493	0.498755703
13.45341688	19.21185162	130.3096288	636.2320434	14.43325858
0.731244306	0.191766501	2.399859412	15.62702386	0.649446891
24.7359246	27.42999089	91.93251233	476.7106016	17.54573724
0.419561877	0.163054248	17.14212593	15.66125033	1.04373382
0.30540192	0.175158581	3.793271772	0.721610393	0.653608643
0.3021246	0.16628207	6.181029471	10.98149102	4.36144392
0.407962439	0.155096747	3.977664046	0.214200325	0.589047308
0.429137375	0.135876338	11.57439618	0.868632551	1.065219454
0.253051068	0.130323775	4.429091889	0.250353416	0.589979152
0.341498061	0.099427186	3.54306162	0.328310773	0.679920453
0.346957115	0.107013515	5.723168523	0.467834856	0.773799589
0.311862375	0.155714084	18.67581873	1.748687279	1.683251613
0.401940069	0.115953019	4.721785484	0.41161181	0.495439886
0.568699288	0.164716589	11.62974609	0.449476865	0.779660396
35.86252581	45.80291736	201.4917547	900.3018163	22.62849603
3.508528137	3.388439098	57.06123368	295.2317036	3.481082471
0.38896893	0.12584873	7.664779525	0.437589242	0.886380509
5.035243134	6.877135619	145.0908208	824.7499967	20.39948364
0.430239577	0.137375515	8.905901571	16.18604265	1.03067497
0.622664962	0.228391857	14.47522385	17.43598322	0.770722302
0.39268086	0.09030896	5.850039251	0.790232145	1.357473875
0.248140312	0.132493937	1.90548888	0.317287567	0.652770962
0.582146173	0.17200898	2.19534217	0.508717515	0.687119689
0.359043712	0.222103015	25.17284541	12.4638679	0.801107697
0.955747155	0.134059426	12.59528939	0.371738063	1.548482296

3.746108375	5.623722346	92.70498757	460.1450924	7.941114015
0.40262906	0.170316848	6.576336266	1.055998639	0.591056927
0.479646065	0.104146492	7.694446163	0.177705703	0.698876332
8.696431899	9.037951532	86.55826074	398.4626007	12.30962711
0.345275972	0.121496037	5.699596817	0.312075583	0.672538768
1.339102371	2.442325509	74.65913391	398.8011112	4.968712834
4.577195816	6.260780247	126.7624543	636.3250818	8.46871788
1.335758961	1.622254692	41.95211193	227.5454503	4.217646789
0.306545642	0.108540644	8.23731055	6.882300969	0.648685307
1.690160515	3.103080484	189.1137498	972.4082002	10.7470758
21.85910322	24.00926015	178.5221904	797.0562424	16.54549446
0.863415027	0.217231204	29.94974942	5.076696383	1.157525814
10.77565692	11.0629995	129.5664832	612.828121	11.40342877
0.268902243	0.107325618	4.672245299	0.592979937	0.707373099
3.925594703	6.017470367	74.20500468	362.9530537	5.384689818
0.635218201	0.239737467	26.26061408	13.66163734	0.917663418
0.473078351	0.092321442	5.384680341	0.333137855	0.809232472
0.328030166	0.106575409	6.651708104	0.369905372	1.104131788
1.886236218	3.398530624	45.89025198	239.0176838	3.96124335
0.459051941	0.179670202	5.620103743	0.702958148	0.779208036
0.740681818	0.2755397	10.46926219	1.263474913	1.324941547
0.510532671	0.650944468	10.4046834	49.5356398	1.525184851
0.552063344	0.158141613	4.745703031	0.529567786	0.531724235
11.01929528	10.34940906	63.09764523	295.8775446	8.51326464
0.643416719	0.226874918	11.5491129	0.732084567	1.393363423
0.904700206	0.217014814	9.151644222	1.691165261	1.710910395
0.288750324	0.164680418	1.343192596	0.26173496	0.73647704
0.322707745	0.225357979	2.439323047	0.952121683	0.730250629
3.503601294	3.355480411	39.83999738	195.3849497	2.28537543
0.537438537	0.289199618	23.75713004	5.103293424	1.26959339
4.902006622	6.634217767	77.31529893	365.3200159	4.73745749
4.888429871	9.461704408	115.1658488	466.0649984	7.075672752
0.785935324	0.215261932	24.71682715	1.037188427	2.530870706
0.290460742	0.267058677	7.052265075	0.49357397	1.234483272
0.367939685	0.105260597	1.684772252	0.372813901	0.674931431
1.003978758	1.178620524	8.82631526	47.00623	1.377261797
7.768341861	9.004462907	62.31508918	317.9390986	5.569884574
0.47678334	0.187757118	1.99801131	0.408869418	0.746784266
0.614603952	0.203720288	7.600090395	0.277142952	1.373521802
1.095413798	1.656923267	34.38627703	188.4074322	3.218191989
0.520106096	0.117611723	2.259602361	0.215305158	1.186425319
0.362609669	0.21436292	1.707985293	0.17653119	0.734359763
0.515120427	0.219703765	3.860335533	0.298469746	0.803685623
1.0585413	0.390429345	4.73995144	2.36107131	1.27417694
0.475276306	0.150949915	2.915224081	0.337496911	0.65607779
0.509688159	0.121092559	6.971643061	0.702055525	1.256903484
5.023649346	5.643896433	249.9850234	1170.409739	20.59772949
12.6799521	16.93579583	145.2448929	696.1379201	13.09066278
0.339979751	0.2195919	7.520758419	0.373519032	0.895623895
0.6007658	0.114093207	18.61221766	0.594420546	0.951534519
15.16382181	22.23899029	174.6961421	838.7929815	13.68460872
3.137526187	7.079987772	79.46966007	420.5544492	5.63042628

8.608986975	11.93903147	99.77601736	481.7886589	8.007348891
0.583185264	0.209808272	7.929963014	0.199665762	0.68477627
0.352416169	0.12142754	2.894904955	0.612526497	0.669399515
16.12858551	6.794362487	66.54604096	322.5041042	4.324211403
40.79407963	8.325662986	331.293523	82.81233741	45.39876138
0.490170016	0.099448426	3.205341118	0.282651114	0.504475798
2.545535654	4.762904944	66.26553239	321.972724	4.924385437
0.324594268	0.229908796	7.568250852	1.284069567	1.682891544
0.847161243	0.308789626	20.84848773	19.54498761	0.962184447
1.050905768	0.563635382	20.01963408	69.20039039	3.479211178
0.452877858	0.141167863	10.96177952	0.572598206	1.026005162
4.043098495	1.404742888	26.91131519	160.0621638	1.70927707
0.297344418	0.17565534	5.358482005	1.077072985	0.978725725
3.127025102	5.974022169	71.81285966	325.448462	5.321447609
0.713936297	0.152829428	23.20147388	0.57216772	1.508600929
0.29877355	0.125906558	4.276362951	0.445731376	0.675456725
0.367288601	0.147979562	5.141894684	0.882258307	0.806786221
0.972796303	1.257604674	23.0349838	135.7794092	2.38128754
19.02864533	27.8870054	177.8085413	807.196072	23.64093343
0.989073392	0.174144928	3.236152689	17.61082834	0.616206188
0.539825742	0.159727278	34.39248869	6.407322671	1.483788548
4.361830254	3.253801775	28.74514712	151.374616	3.063458141
2.516447595	4.678946907	33.91946316	181.1864492	3.753186797
10.39958949	13.26126184	139.1927273	790.7232515	17.65293847
0.444626676	0.144702058	10.11274841	0.321265053	2.610381253
1.64754278	3.392639742	36.93935526	210.2351705	3.719812829
2.518138702	4.661428035	55.6610991	292.2975453	3.822346893
3.571250653	6.561808386	64.06850931	329.4640864	8.501379868
0.681201205	0.194525515	19.8072307	1.429775977	1.136738345
3.669024014	4.60776549	81.28256123	396.486721	6.390259449
4.76275512	4.8273648	118.4931868	631.1677515	8.601971533
0.981357407	2.138643034	52.80736488	268.5828853	3.276484623
1.045439449	2.0322901	37.79278272	191.6307244	3.328667871
3.765317379	5.072645131	112.8872771	574.6700855	12.58314748
0.332187598	0.166592111	20.51609721	12.57150788	0.567727183
6.208024901	8.226460112	89.25342566	444.2185965	8.027283406
0.391131986	0.147377319	1.92895614	0.527886716	1.216358911
1.147336326	1.50704226	42.56358173	224.911105	2.357181675
1.466603375	3.246148581	79.03680345	412.1085749	5.025212171
3.242904873	2.705242785	57.32069863	292.9867547	3.974639909
2.574953214	4.934124503	81.62589571	394.3639205	5.82759555
0.784905972	0.122964595	15.63680123	0.780200791	1.376240792
0.95186329	0.201845424	38.6479404	4.384592555	3.773409107
0.780390919	0.230671639	41.73821592	1.933143643	2.452229749
0.856134897	1.483755659	46.46686953	257.6966442	3.439826938
1.441364311	2.644950752	67.5844278	355.1723442	4.528889591
0.369515567	0.206089888	6.072241041	14.12563967	0.559335138
9.146499196	8.770268631	155.0539009	604.0217219	11.42608295
2.871355937	4.631334924	54.25582807	226.0065954	4.514232678
2.853776681	4.353661652	39.0741111	215.9136164	4.14858494
0.463648967	0.212591997	2.706201363	1.517898925	0.492107562
0.515470566	0.21182018	5.133348733	1.181685973	0.7541768

0.369245966	0.169041404	2.68738471	0.409642234	1.527224627
1.255287529	0.465916032	5.59176044	31.20172212	0.826391006
0.533181271	0.683122469	10.51906404	59.13569189	1.427122416
0.82168135	0.265197974	3.636201455	5.469299513	0.806415747
0.591621143	0.15175687	14.6298673	0.210390268	1.104639438
0.229089957	0.103842321	5.149482691	8.157157005	0.399883031
0.95572459	0.187985004	24.07157716	0.590743961	0.917056301
0.410480651	0.168083463	3.166125315	0.192322389	0.605464586
0.35638639	0.147979691	5.126318228	0.239102393	0.429845857
0.500306901	0.140772679	7.184986267	0.252429255	0.789176344
0.411640744	0.146336474	16.96228593	0.413258117	1.021165685
39.7912991	49.95344742	276.2493952	1272.491439	31.32268643
0.372838045	0.153838562	8.506569838	1.425736771	1.096738769
0.389467773	0.149337309	2.80065571	0.252194439	0.703265866
10.17975832	12.19018819	136.0787657	627.1166917	13.01921416
0.863415027	0.147086683	44.16821145	1.474851589	6.222565311
1.812692318	0.295386368	36.86991661	0.964484608	1.534350917
5.584629182	9.359595054	110.4975993	552.1140874	8.602093436
0.393810805	0.128832957	5.730122165	1.330785781	0.87162329
0.365228172	0.161023345	2.35354334	0.439430562	0.686730666
0.428109965	0.248230033	25.4050737	14.406656	0.755501703
0.377375791	0.232427479	27.40628872	14.45748257	0.914464264
12.25477207	15.53748665	230.5534513	853.8812933	24.38441717
2.478752556	4.961872914	45.46910781	264.1978407	5.924746527
7.714115385	10.70543774	145.5393654	812.6279454	20.09969049
4.917290022	7.282082427	62.65579703	360.5885258	8.012588978
1.046600278	0.367427979	35.45369442	3.114886584	3.477797491
7.422123975	7.146259813	122.6000415	616.771804	11.24840666
179.1828638	237.6451867	323.9561771	1406.760376	122.2732463
4.892563496	7.728544638	103.1598218	500.1912475	9.812078843
0.904952426	0.210409249	1.624880109	0.255653138	0.73452249
2.665364652	0.496093314	50.69381329	2.253224966	2.955933137
0.377502945	0.18443857	3.996485193	0.624953473	0.651139496
0.346914632	0.14086297	3.267576966	1.164667835	0.809164884
0.273174946	0.131986459	14.31763381	0.616572816	0.58118034
2.358285457	4.701364336	94.79731971	534.5489217	7.654286461
10.45602663	13.71616363	257.3579187	1259.002639	21.46234684
11.95886093	13.8655797	158.4748475	828.6838769	23.29103412
0.324624622	0.118393008	2.677059769	0.365843568	0.447650521
0.245220203	0.122944806	3.257566504	0.145814361	0.488115666
7.104273224	9.951792597	143.9133553	760.1498108	15.29350288
3.92467083	3.685821486	91.57924084	512.3707572	5.571158188
4.116836578	4.282237465	122.0063507	519.7569125	5.963809644
0.380229035	0.2254835	3.62053505	0.451946325	0.787053415
37.5870411	40.10006528	503.5001898	2259.094888	73.70584498
6.392596701	9.430902474	146.2194636	787.2139355	13.62047843
0.488721802	0.205637772	26.66819728	19.99695574	0.95284483
6.170930205	9.163921205	175.6173783	956.0197066	14.37076098
0.428824531	0.133515195	12.00569105	0.807818181	0.873878078
0.486704363	0.107177605	1.922532598	0.323075522	0.37895209
5.678828206	5.822126069	85.2675267	416.4386226	6.168511685
6.240062227	6.906119802	67.10714773	356.405725	8.955190656

0.420026369	0.201378268	0.656111272	0.282340924	0.656095032
20.83544422	25.62615642	244.6191334	1336.434423	40.56508381
10.13333138	9.378636303	92.2976152	462.533034	12.59728811
0.459606376	0.214811915	4.237979385	0.268852243	0.849187685
5.261254999	1.613556873	45.36524315	234.150586	3.0717263
1.21158072	1.024075834	27.18483727	135.2959784	1.568839015
1.93645845	1.473189737	19.84519915	100.229276	1.029809392
0.441396548	0.147408583	4.010164804	0.909994138	0.788461866
3.654414411	1.028984711	16.24606016	85.68102697	3.163731531
0.439356958	0.111451766	3.840356218	0.423410342	0.978450464
0.581161447	0.360365553	6.248334138	39.20668247	1.418269068
0.436842409	0.251145943	8.62426867	55.88409017	1.164542811
0.845835011	0.419778976	47.97162359	118.456358	2.058852717
0.457138131	0.125552106	1.521332023	0.297096173	1.464952149
0.857554515	0.17200898	1.119529408	3.454331281	0.822298549
2.918212064	0.795353858	8.203487609	46.81426083	0.898195602
1.708672514	0.336129805	3.227414246	18.16233127	0.86738851
7.891616412	4.363500417	185.8314093	428.2864832	22.95184384
0.556017248	0.250571152	9.741736603	0.695663683	1.806232958
12.01279868	1.27964654	38.64305485	0.755071317	3.455699517
0.358824515	0.133561912	4.637110261	0.529685502	0.701523994
0.559358249	0.305505745	12.33471112	2.103837651	0.855539253
0.261395735	0.220048692	11.41737458	11.33495411	1.542797292
0.617839698	0.139249059	16.41583418	0.746473011	0.915338192
4.331085257	0.593324771	12.93119564	70.63537078	1.379634344
0.380657917	0.132459376	14.25123021	0.510778225	1.256247418
0.476311909	0.147086683	16.73474421	0.379508828	1.181347765
0.500402421	0.14812557	11.16913402	1.829253998	0.813280129
0.38400541	0.567504789	14.57033211	83.71805325	2.299902225
0.809231197	1.168995299	23.70634727	122.5540715	2.817749824
1.164017996	0.241227907	2.520925975	0.147162935	1.241415456
0.370799261	0.148050087	8.029065248	0.469049266	0.813051975
0.461694559	1.310512843	25.21908961	134.3317378	1.712659252
0.963681134	1.689600206	82.83327976	481.0693337	6.405628703
0.31713311	0.209768135	1.56672204	0.463595377	0.512636122
0.612467739	0.107686403	0.951766765	0.244532155	1.505981538
2.393606031	4.12131948	47.23271015	227.6070578	2.659475341
1.047701118	1.877662692	47.57178732	249.6306487	2.529986878
0.456138192	0.131669084	1.618038395	0.263308326	1.398581426
0.451367317	0.154963875	3.881961395	0.270303813	0.59237058
0.341888273	0.13395803	1.398089432	0.133660353	0.593192027
3.630878964	4.555688564	240.9793569	1222.653069	15.03668691
0.908102344	0.734031366	14.87633376	80.06699278	1.485700256
0.866026477	1.476832678	21.04482851	124.6075742	1.707797189
0.668204084	0.369968228	6.917533797	34.12820525	0.873878078
1.312661917	2.249218646	83.51770379	469.4977234	6.907563325
0.331214456	0.217167527	0.570634064	0.727269838	0.797475927
0.444626676	1.140755631	11.03105345	64.36282387	1.202606636
0.533181271	0.240485743	1.037749422	0.169846024	0.631203864
0.382418924	0.119882125	6.49609749	0.307605898	0.81245708
0.924815277	1.965389498	142.4942812	652.7798072	6.090669651
0.693855173	0.145703792	25.99849374	0.465931019	1.58957691

0.775740981	0.208291006	7.042031829	0.450972296	2.419921684
1.77344422	1.658106892	64.64557059	381.2751925	4.357135158
1.579132312	1.583776879	22.05693355	104.1527726	2.718032408
0.280260969	0.27010768	5.945589326	5.245818906	0.851665648
2.336000729	4.527795821	12.54002628	21.17667111	5.12979062
0.538523575	0.128222041	9.348817246	0.585600131	1.112600693
0.51182915	0.316719473	6.603889227	36.38338872	0.790165869
0.761996834	0.225973063	6.854561964	12.55812875	0.670645826
0.561114599	0.528320554	24.92768227	153.3571023	2.522395339
1.000915942	2.30128624	30.89640085	174.0964955	5.059828179
0.5595304	0.860272225	53.51342464	280.596435	2.889769475
0.837033503	2.457274716	148.0847425	769.7698179	9.166668833
0.642242301	0.332327485	44.55919321	99.3904094	1.280423203
0.388148158	0.495812874	13.00598342	75.02645844	1.23753015
0.380229035	0.651602086	20.20899095	109.6363822	1.210919841
0.802827944	1.049814341	21.37586328	126.158106	1.726476423
0.608180554	0.161023345	16.61691556	1.262736984	2.002399523
0.354918014	0.178950812	3.042917162	0.29049514	0.741412838
4.863020518	12.7415304	7.049661603	32.17503623	30.48297822
0.46760332	0.818209334	15.54085344	86.84878748	1.526168551
4.074695355	2.687107122	61.24669304	322.6362776	5.619520159
0.371868829	0.185083445	5.879015558	0.811506843	1.552570457
1.192883284	0.528320554	11.30739035	64.49853275	0.929546905
0.318629535	0.670544814	4.856535202	25.15799701	1.226878612
0.579886819	0.224595615	3.415255279	0.346115295	0.807325788
0.269768123	0.168764594	1.190788083	0.283136304	0.788461866
0.540505388	0.146462425	17.3419922	0.572545912	0.647548337
0.467073171	0.117828541	5.29310606	0.448928096	0.996522288
0.369934038	0.109702288	3.724898167	0.6232274	0.776387708
8.474375245	15.18389374	96.39197431	494.7100021	11.8817531
0.258043298	0.156926387	2.682213632	0.740609493	1.721678404
0.772952351	0.228509096	13.80119687	28.08902383	0.759093603
0.02416757	0.005939004	0.096075373	0.463286879	0.128675871
0.093845374	0.027336708	0.302429791	1.243897705	0.250428421
0.088552623	0.010943124	0.037094081	0.086635888	0.102165883
0.059602968	0.000452702	0.052356891	0.135523058	0.051136851
0.018636476	0.010136169	0.03622192	0.057582941	0.057721242
0.049660239	0.000479229	0.058379805	0.123817597	0.165990255
0.022355717	0.02140812	0.034580038	0.048447593	0.111943319
0.042416182	0.000479229	0.058635717	0.117383572	0.055100852
0.047205431	0.008770555	0.059400569	0.065581214	0.149827055
0.012962275	0.017115517	0.024644642	0.091690984	0.021957197
0.076982089	0.010667137	0.043057008	0.021520978	0.031668832
0.021304068	0.002671493	0.062434573	0.075216463	0.12907472
0.088746854	0.021051609	0.027048727	0.070277543	0.162754029
0.029618932	0.011298894	0.042918743	0.037077023	0.029679686
0.038986487	0.000377423	0.029917995	0.063911399	0.098098771
0.021249428	0.013496407	0.065560891	0.13883909	0.066370079
0.050234377	0.000377423	0.064986005	0.186149203	0.115020741
0.034069669	0.037257539	0.079433567	0.094679754	0.197892471
0.00105551	0.000851003	0.024964835	0.017369416	0.076477452
0.053878164	0.000851003	0.025387074	0.000609833	0.104496303

0.000799599	0.000656684	0.008897387	0.074823432	0.029459934
0.000799599	0.025238435	0.032842428	0.041639142	0.041861269
0.023665706	0.000656684	0.015457672	0.029877622	0.030587328
0.02221432	0.003269069	0.01045005	0.012086879	0.02230562
0.006588314	0.017152732	0.010160775	0.036937826	0.099867261
0.063232583	0.000599133	0.020285391	0.013640063	0.001253175
0.000733746	0.016107279	0.030099298	0.04950972	0.03287671
0.022372364	0.005412585	0.01035239	0.066125276	0.034988863
0.199169981	0.000542774	0.114160692	0.205611666	0.344996812
0.079116101	0.030535645	0.07875998	0.088955504	0.085084401
0.028598379	0.026665597	0.04705785	0.071908329	0.107333713
0.486129756	0.195733698	0.18517423	0.253399632	0.443309295
0.188204351	0.012778492	0.082916122	0.105634045	0.2248994
0.106031659	0.000452702	0.127144663	0.350347253	0.168832843
0.111513341	0.000479229	0.132338222	0.289570328	0.189286349
0.179215279	0.000425593	0.177943106	0.564386609	0.198385229
0.077660369	0.010548686	0.080020266	0.117197285	0.129896166
0.097061718	0.029303905	0.174168064	0.316949171	0.180004406
0.131225623	0.000851003	0.178237314	0.412571213	0.23058113
0.067083828	0.000851003	0.070566565	0.188209044	0.09204348
0.142283633	0.072060818	0.150927563	0.221422382	0.139944551
0.150236924	0.025732503	0.1146868	0.159249671	0.286335014
0.083353923	0.000599972	0.336913197	0.7628194	0.0867366
0.179557219	0.098745239	0.186811407	0.492405325	0.723235107
0.126067866	0.01312043	0.066871681	0.196252433	0.071937081
0.384970819	0.202093103	0.234464109	0.566314994	0.54978412
0.314036199	0.071480697	0.200623296	0.320360944	0.477890862
0.212877262	0.047021445	0.171441726	0.507723846	0.443309295
0.04977101	0.049676991	0.109919491	0.188041847	0.093935394
0.055779429	0.040397002	0.130633306	0.230224491	0.061013438
0.073258466	0.014574424	0.181654701	0.270451649	0.0519599
0.055789826	0.013719956	0.081923661	0.06529861	0.058828226
0.065820058	0.000479229	0.111353481	0.344106347	0.148285224
0.059690472	0.000479229	0.025623136	0.068362432	0.094238288
0.039264989	0.037977921	0.046573977	0.122152382	0.233994556
0.055145873	0.083495895	0.072227161	0.126232034	0.116645636
0.08095231	0.000425593	0.069330834	0.142278663	0.158729387
0.013913077	0.012424208	0.035412654	0.132014046	0.07650214
0.117848879	0.000420867	0.053856186	0.070003158	0.156182456
0.032390553	0.027803488	0.069511742	0.083996766	0.129896166
0.087006328	0.006432339	0.051188755	0.117225333	0.08399713
0.092630273	0.011478102	0.090855849	0.21953045	0.021949909
0.027738596	0.030652001	0.081657682	0.116264722	0.212322064
0.108587342	0.000851003	0.062966276	0.125495763	0.127845345
0.034069669	0.000851003	0.022853644	0.048726057	0.043788793
0.008601603	0.000851003	0.024120359	0.051969847	0.001760518
0.050104641	0.000656684	0.050555198	0.151273314	0.06440915
0.047246378	0.000656684	0.011193487	0.101286853	0.072300908
0.045817246	0.000656684	0.023986043	0.103387124	0.001275083
0.045002244	0.015016784	0.02144249	0.045480339	0.028953761
0.063232583	0.011812862	0.030988557	0.010921991	0.027845737
0.019609985	0.013414823	0.046898667	0.149543678	0.076598769

0.04728956	0.000599972	0.118813019	0.064193234	0.097297362
0.123352581	0.014503075	0.035109708	0.086604914	0.033932787
0.175991262	0.019893014	0.26051886	0.325610412	0.380393444
0.123096235	0.016990478	0.115481614	0.218313483	0.147787006
0.066635252	0.01553921	0.138465659	0.130737797	0.082050404
0.412111022	0.141434158	0.234709332	0.410501172	0.659899109
0.143176288	0.003483976	0.076295093	0.096298093	0.203968451
0.114699188	0.12142754	1.07725272	4.723455363	0.19595732
0.141498179	0.12142754	1.104147187	5.880716516	0.189482897
0.137621835	0.042089064	0.313911389	1.4138106	0.23488469
0.112530387	0.027624543	0.187436598	0.727934045	0.287765844
0.203736295	0.03928515	0.633764558	2.333875442	0.3011619
0.057964865	0.000656684	0.158143877	0.69440352	0.001275083
0.141362609	0.080163206	0.418327435	1.420048323	0.273826943
0.192202729	0.074393361	0.594212461	3.343253876	0.221914362
0.221754374	0.089553875	1.022162541	5.805775954	0.362189462

o-Xylene ng	Nonane ng	Cyclooctane ng	Propylcyclohexane ng	alpha-Pinene ng	Propylbenzene ng
296.1616392	41.57694303	639.1754109	6.941265524	4041.078051	817.6416193
0.560552626	0.508125919	12.65111435	0.45801538	81.53621382	19.43822997
2.924238487	5.582250995	24.8502438	0.275456206	257.4796786	19.14476448
3.546560981	2.112902147	59.29210459	0.969897171	856.8123995	19.40114046
4.424105902	0.990076906	47.08769769	1.217758365	1970.646303	38.17079484
98.25948961	7.500158915	400.6077519	1.638301148	3761.720729	581.6872354
5.123415646	0.678090542	1107.315174	1.220353055	8771.248892	1310.019803
0.442320172	0.392704785	61.36453887	0.474863733	3.631344698	5.170252262
127.2344464	12.5124805	14.93747793	1.713505911	92.03478623	56.79474501
2.145263563	0.355471047	1537.386748	1.254377135	7299.031354	1767.435091
136.5342921	16.02959164	11.70499056	2.086111876	245.4342449	74.75985089
214.6105569	41.83642213	18.85277587	4.428554883	42.67425724	173.6146377
2.833569144	1.076300554	4.888377426	0.275638089	42.10763397	7.585808866
125.3126183	7.467350403	32.24614164	1.873404786	304.205938	82.27809315
129.4890435	14.53823293	74.84783981	2.73822076	689.2452892	143.4762789
129.6865455	13.70598882	408.2893456	2.560213874	2303.381978	536.9982231
3.402481684	1.393618609	8.74892606	0.302171463	294.0032422	10.62990447
3.048339873	1.376171199	48.7596601	0.559735409	723.913271	64.10376973
17.06770172	5.407085676	32.50549078	0.816417286	422.1174803	40.23575912
0.220504326	0.271654335	1.482411826	0.145595769	0.564155017	4.667540834
0.198567253	0.416945107	2.300460458	0.120235967	2.871579775	2.077217277
1.229096409	0.619724065	4.224327067	0.305232666	96.2847252	3.368624374
0.254161688	0.284116823	2.438153988	0.242580873	3.403011763	3.037828851
0.250867704	0.421600853	1.875306442	0.138864246	0.18270433	1.185186202
0.335010931	0.313240599	3.418092258	0.310779238	10.11570183	10.67255045
0.292957768	0.384312218	5.080328005	0.208279933	26.43575193	1.752537674
213.8785925	38.21230814	12.15000173	4.672661243	15.91090733	169.2835951
162.1660356	26.69134972	42.92284237	3.809371097	740.6192151	182.9196865
88.03242908	8.409277956	6.417703705	1.465362914	157.4601605	38.80987468
2.411391881	1.792893172	3.440501205	0.33453167	7.877108357	2.996392848
0.550781444	0.5097526	3.388875148	0.458628861	3.215495222	12.9358112
280.5812734	53.02969653	19.81769431	6.284185665	12.37686552	237.4086195
43.95416201	5.095745961	92.80879143	1.43227164	3549.687683	205.8782459
0.35198363	0.430857733	2.529947764	0.082891354	10.30421151	0.720889325
88.59800923	20.89590788	20.71445936	2.735102907	448.1518493	173.7421854
2.079466838	0.808033527	143.4298169	1.099392027	1401.866535	66.9518322
88.17820296	10.53559647	7.831812997	1.73808787	6.007495816	47.05204182
0.566594875	0.827270179	4.068174195	0.259344612	35.79897434	5.545183302
12.86181831	3.813760477	1.720706902	0.457448577	10.63285372	9.188675133
208.9968798	26.27598737	21.90324088	3.463649183	73.99269695	126.9178193
0.240950755	0.454903549	1.648811536	0.096964313	1.949451838	1.800086356
0.536196203	0.294431794	27.44060833	0.475056851	58.5074725	11.9319228
61.3768669	5.942890001	8.62337577	1.026790577	85.9961645	32.95109447
0.995209893	0.713169628	21.08041435	0.579581945	634.3757549	11.48840364
0.837105177	1.325517429	8.715241836	0.5015189	243.6440934	16.94001083
13.30048394	1.726461282	1.541393389	0.259163578	4.408597218	7.092706278
23.12417918	4.669384786	333.0909642	1.534420432	2185.050146	268.6474949
0.185630076	0.227827222	1.822572109	0.193677721	0.464153692	7.619063074
13.05969601	2.178477537	18.79293693	0.695798291	610.1905644	23.09533458
0.430894021	0.212463711	3.186167067	0.230198815	20.59821627	1.991120995

1.700314739	0.419434541	0.726897341	0.092321977	16.31093201	1.354898806
0.244572119	0.29565209	1.481773782	0.180666121	1.061264995	6.284401136
6.474848035	1.342759181	61.70519926	0.340841697	342.1555965	49.71826996
3.872814906	0.865030769	2.119343486	0.323313845	9.543983325	12.27404658
2.337235738	1.252537604	1.135512064	0.238776441	1.739520694	4.313708529
1.149223212	1.918950208	2.225646448	0.273958839	16.59402348	3.758388506
257.338161	35.404466	12.1054073	4.927778214	13.60750305	158.177893
29.02082885	3.550630552	6.800198097	0.546216474	63.64234183	23.20316468
70.65181225	8.584765532	4.233708906	1.253041098	11.96006647	34.38418138
2.053810213	1.878206345	4.183182569	0.932409268	21.26151251	29.88514678
0.206598874	0.263476712	7.461270032	0.128404007	7.046216632	2.078948245
2.540349767	2.482353142	4.773839472	0.399561322	90.75370585	4.409226557
0.997255849	3.251565785	1.599151882	0.211861284	17.99778413	1.171715011
23.97897834	3.459739552	5.199233647	0.489145995	55.37805219	13.77498413
0.461011643	0.307949801	40.42622786	0.405475536	76.23228724	2.703608527
70.97185562	6.445671232	8.470648471	0.893351114	41.38744425	26.43405737
0.205068227	0.214229072	1.112498192	0.077644	4.043481037	0.409301579
5.604775978	1.076723723	3.341978955	0.247875333	65.65603263	7.76183373
571.983246	82.08385231	36.92525471	9.815820832	417.3749295	380.2248707
0.173599646	0.284798971	2.104786053	0.140755636	0.613182589	0.521393128
1438.465572	80.90402787	85.83918675	29.98444218	186.1770164	416.832573
3.333392873	0.7276518	1.125480152	0.083973889	3.182172511	1.284005137
0.42855601	0.986586831	1.138720161	0.051845369	2.14946512	0.502373292
0.390819026	0.57917286	1.542554684	0.040997303	16.39278855	1.028430526
26.99991165	3.346500871	29.19092426	0.557968202	269.9025185	53.57782569
119.1537152	18.50849507	91.96525798	2.601453698	3695.970091	212.4034554
0.344790271	0.867781591	2.259259324	0.30159482	30.8861558	4.121274844
0.307153816	0.324000582	2.759887027	0.31978405	1.181639527	6.44288727
187.0342512	10.50943719	42.35107898	2.614052305	350.7276113	100.3857938
0.879529019	0.780231876	3.940037097	0.26602477	47.03992589	2.960871549
0.36190481	0.263947306	1.181175462	0.275186072	1.059330525	2.308842962
628.6702947	100.1869746	36.53770574	12.07111722	27.94148417	496.0126691
325.868379	23.50743428	11.73049469	4.598332017	51.62810505	102.8220087
2.55389074	0.98222795	48.85532913	1.608613665	1919.100398	24.1906334
3.337059609	0.734194966	0.623489227	0.088007678	0.72503938	1.354789798
1.810965345	0.814212533	1.18333205	0.186926827	1.113800248	1.491296436
0.297693479	0.564060529	1.932611292	0.125884947	49.43173994	2.715705639
190.4105715	44.97031401	36.06820727	4.826109689	156.6072779	216.4303752
26.97343513	13.14282343	6.326867092	1.149927333	82.39688772	20.79179553
128.6638158	9.25114775	6.359720037	2.06768565	43.87033411	44.76423594
114.91693	7.357480615	5.439837575	1.389007231	12.9864425	33.31795706
0.690575046	0.638338771	1.670547344	0.224703482	9.063993298	2.907608087
1.189242128	0.924140465	10.2344558	0.261509683	197.6621339	5.171245298
412.9678615	77.22587	28.50627512	9.82644511	77.87695795	382.3475272
179.7262397	16.4130247	143.9636727	2.604046925	1013.83144	264.7333016
169.6085727	12.66607851	16.573606	2.40912031	415.5262412	75.55598372
3.006440344	0.633342909	5.794162413	1.190441876	3.553700793	44.10804713
0.221577341	0.141139018	4.363631101	0.189406541	5.357042607	1.623826045
2.271370245	0.527836396	9.13670137	1.111625473	11.62529386	54.78642094
529.49765	28.33562725	16.2460252	7.162819629	27.22546124	118.2166973
365.3451323	17.71759717	71.82065323	4.435315317	678.7728624	160.063123
0.317898272	0.281035865	4.715216566	0.489690095	0.54422714	35.9633038

1.066876855	0.875606613	1.819906108	0.413327539	7.58806776	16.96964809
0.696103685	0.307693568	1.113483985	0.215726073	2.641307999	7.222269378
7.68181521	1.072851252	2.206169126	0.237777929	97.19986479	5.643110565
5.820843144	1.862614297	1.382965881	0.145678403	3.495194841	3.868828847
1.606514223	1.153284456	1.345297052	0.398490358	0.359755305	8.893838633
464.8537854	24.681611	19.18535886	8.332333163	33.34305065	106.7719228
7.857007492	2.207193036	1.652085877	0.328125368	5.339186349	3.202946451
121.9102534	14.31258131	4.987010649	1.931351626	2.592652721	44.33714857
0.367572425	1.080690873	0.981650162	0.328192478	1.124995341	6.075905631
5.328825925	1.50235264	8.533272995	0.502470664	267.7891723	9.866236956
0.699555151	0.561761073	1.131086865	0.209914107	18.70247972	4.025539611
4.817966344	1.046063646	61.52307833	1.075455176	1181.780413	36.85842926
159.5491894	10.30716335	4.808459084	1.860873972	9.480375061	37.7513699
20.72297337	4.761798374	1.664330558	0.480253483	3.561681209	11.16206213
0.357135028	0.571571721	4.908009775	0.649615427	2.522349397	3.941372042
0.310513536	0.252473868	3.117629202	0.208982783	1.307320873	3.854886804
3.067535585	1.414690711	1.157874246	0.353135105	1.584046609	4.631140809
161.8521947	10.89217599	7.949565702	2.144539151	25.90402696	45.94381109
6.622246714	1.5220246	16.90575264	1.016096792	1094.559806	19.36759819
6.069913161	1.329824296	21.11538564	0.467743344	350.9215873	21.19526067
2.999723066	0.676181451	6.347986842	0.295269283	108.7858537	5.194664509
157.1440612	11.89331355	26.23340516	3.166331397	612.1273368	89.32839236
0.701260468	0.724471688	1.218234135	0.000801373	1.680681846	2.150956173
4.421436349	4.948142739	9.318831731	0.562393743	610.8228259	11.7625591
1.098357894	0.48991911	3.710364682	0.136116389	24.6714776	5.432518116
1.794493782	0.498934078	12.22087139	0.400955827	558.2310376	9.884180292
0.893038335	0.680559848	7.777138431	0.375314946	334.9743928	7.228443727
343.6795835	34.88902731	15.32107796	5.802306055	115.1225196	137.5478189
8.755027698	1.267733572	74.83230771	0.316143682	842.336087	186.2509834
251.2405479	25.74851419	14.64213421	6.040025799	15.1012203	92.71582862
55.52496155	2.677023784	2.595368272	0.383757388	13.29148639	27.19949368
1.152829917	0.286848141	5.420072246	0.211751774	21.63897201	6.03654828
9.116535747	1.496180156	31.82970809	1.023265439	1522.598737	49.25906716
0.340574988	0.306004251	4.662549655	0.299169589	31.08801338	5.992223698
1.400417551	0.321082258	13.67384831	0.536033789	207.2824522	16.65624939
0.243322389	0.291412632	8.408243355	0.201756156	7.024712272	5.835891588
1.704202294	0.865240481	76.90154484	0.751778565	538.1501328	17.35631352
1.652278468	0.516787899	108.4293173	1.327675991	1600.976535	31.14234823
17.43675433	2.609144113	3.958249856	0.277925413	13.57389918	17.09525419
0.268526255	0.300269517	3.159423236	0.210047585	24.64872578	6.878495198
0.535745933	0.248840402	3.314072348	0.447619983	110.7923585	11.79744159
477.1413833	25.70207129	19.55920584	6.683188366	99.40017068	109.9915441
154.1522662	17.59148793	8.376624435	1.543934769	28.77306715	66.40773528
0.306394392	0.277784089	1.684968153	0.148110452	0.13954305	3.199935267
475.3460656	97.91202215	31.17542675	10.72013438	29.43535794	439.0375993
11.46678067	1.976568537	37.09834341	0.694203188	746.6489782	33.61339986
14.26266004	2.280969492	1.652362338	0.241283499	10.99585558	6.927111126
1.885838446	0.413097241	16.51549622	1.343751302	1340.553834	18.1582773
0.213067248	0.298026119	1.115422016	0.046421336	3.506301483	1.856433245
0.784412249	0.607163133	10.68474699	0.407366047	443.2192702	8.19135826
19.77173861	4.696244432	21.09878756	0.98886164	666.8680723	44.31347166
0.236243508	0.508303268	1.777822735	0.21264153	0.864100518	10.19737816

256.5338683	58.74606862	40.08444125	6.133525039	147.9165252	284.6344718
1.468449551	0.643427781	1.293927267	0.277172713	2.389758771	5.619092224
0.231747075	0.329105915	2.220963569	0.228658309	0.191186743	3.103487672
245.4679285	16.39370717	913.6553601	3.472875301	5721.855276	1059.491465
0.641147695	0.534697105	5.01745897	0.340388451	33.09508911	6.349397727
193.936777	17.4103003	11.51047098	2.332725542	235.7030604	85.60334371
347.4769519	22.74888739	12.94024151	4.07687063	35.51761364	106.135431
128.4044832	17.78481853	10.03493669	2.194487392	133.4190087	84.99111009
8.639262694	2.102232578	46.00247161	0.5922183	558.4151184	60.23946606
550.1628094	56.73325494	18.09906438	7.612452805	22.02507754	344.1871304
401.749859	23.27881539	60.85927038	5.90246562	700.1925366	172.1767856
41.71786125	2.873815902	76.29566306	2.799657428	4031.011386	96.00574886
313.0830072	24.21271756	31.62416219	4.652156482	690.9943038	129.5579363
1.426732688	0.513512191	70.94689675	0.30479372	168.7685212	11.20132461
169.090284	11.5268691	10.11863331	2.106737934	318.0620523	53.80739065
22.02682492	5.488756452	280.0313345	2.49279308	4824.3297	337.7645486
0.331640998	0.349189895	1.226890713	0.158432153	0.453255795	3.912928415
0.324769635	0.319921293	4.934981094	0.233734119	31.91230997	5.299373978
127.7378986	9.273156926	4.924436741	1.379591247	4.45359305	32.89474075
0.746935331	0.458406266	35.39935913	0.522187613	190.0754945	8.493103136
5.480002776	2.876412826	9.499484994	0.314958257	240.8198382	9.09462394
25.600863	2.280942295	2.024683742	0.447998251	32.41683979	8.004108073
0.291969195	0.273899742	2.398265059	0.162510075	2.369936247	2.002120263
179.6035781	13.99393885	86.38480091	3.545634109	375.131537	158.0868269
3.015920461	0.425244686	4.606780754	0.434089868	12.72070881	10.75151089
9.894065867	2.261998328	23.06074932	0.727155549	364.1639828	13.32564577
0.548168961	0.41058515	1.797853952	0.055488271	4.334797737	1.319490841
3.757343154	0.908147052	30.97126916	0.638114063	813.3199506	16.31619485
101.3616894	7.602693993	9.702764494	1.252029508	60.52211525	40.63350903
20.9711416	5.459868311	1.558524333	0.643644654	0.441821334	15.94060782
208.2804627	13.12086516	12.65214648	2.616024021	77.39283172	70.42953359
260.365082	17.82697479	10.5186933	3.376505089	21.70297277	75.76159328
8.061302008	2.743131954	2.584758395	0.714563527	13.23010328	25.76646343
0.523780177	0.436111465	5.259385503	0.221469659	19.20617779	5.048110693
0.311112871	0.329748428	1.096783499	0.042969679	2.790417557	0.970858268
26.38542948	2.775147689	2.326924299	0.521245629	3.383485402	9.525539283
169.1162812	16.43558797	49.29160755	2.790534096	187.0698977	121.901237
0.414940212	0.358827341	7.709974175	0.293514205	35.30045665	5.52501355
0.703544944	0.535318612	11.24002756	0.341864537	53.67595829	10.87428394
99.70801629	12.13503201	5.065096805	1.504871599	39.13627988	44.18684251
0.498582582	0.400241892	7.396963786	0.204261881	67.16164146	5.406610286
0.16420386	0.265727991	1.041363105	0.176917763	0.256007261	1.294650795
0.255538607	0.349485636	4.402490628	0.365736132	4.501936102	5.652086184
13.82099728	3.617779784	2.753650699	0.5084488	2.376390692	7.801519479
0.350755695	0.600220395	1.150319984	0.221675175	1.430757769	2.62218083
4.519073728	2.099659147	170.4197119	0.789881754	857.7768828	42.73949428
682.1988505	89.68910324	35.30320926	11.22746172	18.83791277	417.7186683
333.2654267	19.65351856	9.961437337	4.591019541	24.4023026	72.57459338
0.393868208	0.25931107	1.497916917	0.215903335	5.10518753	4.19561318
1.135758002	0.539956546	1.208079826	0.380819023	0.756330303	21.85509791
433.4321803	25.34785883	15.7113236	5.262144564	29.98366499	98.02430458
234.2952523	11.14374176	8.460966088	2.563114784	15.6017994	63.16342615

248.5362271	14.61424449	20.77381951	2.897690544	72.59194937	83.02559231
0.24447708	0.449647036	1.988133385	0.201508218	0.17837434	5.447472643
3.397185314	0.709711646	0.885617925	0.139576109	0.350786676	3.971057104
149.8583233	9.063224881	2.592738638	1.545862099	4.041119224	29.76566554
833.6474549	164.1165499	120.5631193	25.32387666	369.6099883	928.4251192
0.409007457	0.402709625	2.397805424	0.108937904	14.56087596	2.289606136
157.9108314	9.291024926	4.621761793	1.714852033	3.326440153	46.23027099
8.537664661	0.846059605	2.13107668	0.39132191	8.406159978	11.90193177
17.65627554	1.294468945	1.854173286	0.248995754	0.859323166	3.894988782
52.82447753	16.95688979	68.24058869	3.539324082	3664.400069	150.6799701
0.884134283	0.774486576	0.699626931	0.203423339	0.525142919	7.423264209
85.91595717	6.542617037	10.19934411	1.284505568	143.7954269	41.13711699
2.547531219	0.822461016	8.493919157	0.53322605	510.1721319	10.54176421
175.6650462	12.19132263	6.166515686	2.264741307	24.59015078	50.87327764
0.673311985	0.510552436	3.949463243	0.363809271	11.39385411	17.30643002
1.136668257	0.634903654	1.088696477	0.160833897	5.609501357	2.69634221
3.469381072	0.750846533	1.012910176	0.07502078	0.311338035	4.287316789
72.2064169	5.223070128	2.148306468	1.077480614	1.595548492	22.0586124
500.7194	22.07321438	13.49450335	6.288003515	24.55859175	93.37309551
9.295689356	1.103523971	127.4643717	0.758448881	6769.535095	257.2780994
39.76001643	4.366567779	3.319426584	0.988723717	9.40686811	60.947066
82.22150729	8.163776419	25.34912423	1.355802055	638.6051278	64.26781686
88.88485601	7.955533141	9.050552978	1.395936163	22.49952292	36.7975344
474.8506604	117.0040955	42.76846148	12.66347671	11.1332382	556.0233754
1.975714134	1.041856315	2.952177282	0.382880713	2.642748495	6.477144596
125.836733	11.47428172	5.950073243	2.121437346	13.89842572	53.24748637
153.753689	8.599759377	9.029487448	1.678944958	221.3398554	50.27835084
199.4697259	9.870341423	20.43985543	2.762433311	659.0354224	83.81825695
2.014134235	0.970569422	6.51635999	0.618611207	96.7030561	18.66852398
221.2982102	15.97730192	9.815480882	2.633061567	18.6716803	67.99587674
333.2569961	23.16280299	20.52454319	4.027557606	121.1061658	125.2272885
134.5630116	11.67044369	10.48009318	1.714695915	168.677425	59.18845495
100.8428559	6.4967419	4.830350076	1.299173053	79.70376815	32.24896721
348.3825502	85.49544881	28.93169808	9.135748822	46.26049175	422.3736276
15.88942515	1.216376768	59.96680974	1.414525501	3017.787085	64.00179312
235.8532118	15.86447595	12.84069025	4.012266542	55.44439531	80.56592654
3.146555418	0.683698444	110.5643434	0.919429384	1308.420585	56.70085278
119.4498214	7.882560383	4.040752889	1.175805279	3.726795007	31.79607753
220.3197293	19.28700578	7.300329252	2.67618338	5.670599345	68.63780488
159.8861675	11.6767914	13.7718583	2.254211822	160.4466991	70.26958186
226.6077415	16.78820478	4.320145149	2.930994099	4.971699332	72.10181454
2.818939238	0.771899599	2.440833019	0.514016872	0.531584948	13.45445474
42.32804308	3.809010551	4.297024415	0.91505412	17.8203799	30.43031885
13.99686463	5.241394901	3.504715166	1.132950622	11.30388362	34.18899028
126.1946038	17.60300519	5.711735698	2.015758182	2.145012695	53.82580272
203.7602869	18.88361663	24.98303771	3.079349141	601.3447277	127.0305984
8.783419957	1.375514775	7.067715737	0.593306761	601.4359478	13.72088689
376.461032	79.68030593	270.3705368	9.636603971	1129.74158	707.2781808
134.1818315	12.81403212	7.876543852	2.446309191	10.11007132	54.33292789
115.9174836	7.294350318	5.380535859	2.317118597	19.22923364	39.43975096
4.582445778	1.622277028	5.402280795	0.403421296	211.6648275	6.547707382
5.197778111	1.846566963	7.263735311	0.531779461	367.8776046	14.03128668

0.524628528	0.465004704	2.026300223	0.128985775	3.210706242	3.440425039
19.73284995	2.344783851	4.706819147	0.350244186	47.03008427	15.94452385
34.53954778	2.988649554	2.502033557	0.698220133	7.863124947	15.35894327
5.166402678	0.973227438	64.0174425	1.78331972	4806.829934	118.349443
0.160725802	0.446383107	1.960675368	0.312823449	0.170935072	6.370551939
5.925824859	1.17323282	38.74961043	0.723584964	1229.222121	45.33352165
0.552844592	0.791905171	2.913819645	0.394157792	6.954296837	12.95464347
0.203204294	0.338737129	1.26334291	0.118932073	0.665695054	2.479127566
0.166990754	0.244399967	1.117403711	0.096508378	0.543274422	3.318361017
0.269507027	0.365508486	7.47740947	0.280169115	0.554689851	5.758860759
0.485610432	0.321593785	1.6838614	0.351106196	0.633121514	15.85421134
813.8628637	33.09908333	35.97991841	11.81256027	238.3217222	180.9296354
1.837996497	0.59880926	92.28731154	1.525887562	1365.425531	33.66638469
0.576465122	0.610098578	0.804803285	0.123432648	0.504764684	2.390807788
370.6579046	41.20564991	17.64876605	5.525022926	133.56178	176.0270725
16.64782004	3.20789609	50.80646605	3.916813346	3773.269212	104.414531
0.725412021	0.275841916	3.128494829	0.716895557	2.775001159	23.08870647
313.790656	20.69547032	13.33795365	4.189395928	48.57958192	101.4329098
4.859996817	2.271393162	1.249207061	0.277747713	4.501114903	5.31624697
0.543446679	0.538720392	1.240847135	0.034177264	1.777008399	1.55373943
17.96383776	2.889027111	3.951135228	0.438504209	36.00390712	9.214920956
20.19038039	4.774219055	7.557607416	0.703184097	393.5522577	21.45716785
714.6355533	59.75247567	38.98578099	14.98913791	54.61073035	321.676746
141.1769283	12.21130825	4.057201193	2.484277418	10.07606395	54.33885808
624.1627197	52.66409458	35.64793334	11.89300151	787.3121648	331.6157437
246.6901369	13.94513195	260.6178075	3.993899045	6667.035194	529.8538175
15.21467175	4.988537337	6.462071106	1.63582542	167.2582663	31.2869251
414.6863387	27.53080829	32.58818228	6.103173581	180.6082981	171.3102071
1052.417066	102.4979813	154.4791291	41.98122206	709.4222003	509.7117737
349.9970244	21.92415453	21.35295035	5.807159766	203.6403858	119.0563845
0.296606158	0.65317169	1.590367724	0.282884704	1.516315487	2.321750146
3.256604789	1.048866716	49.17494925	2.727652483	449.7420929	88.9380206
1.637365011	1.661887605	33.68762732	0.542899334	259.5024416	15.4181502
5.516662111	1.536538704	1.835018995	0.170220504	9.43607453	4.678797204
0.992415072	0.319609786	6.945899632	0.442562726	57.23508088	15.18448349
300.8613425	22.97359832	12.61712169	4.17953873	24.03520347	107.159648
849.5093195	45.37611132	30.05311091	11.81012296	52.39713213	266.5769003
588.3843285	38.89331554	44.68209414	7.70953066	656.6414952	180.6880608
0.384271997	0.386330652	7.264019381	0.243152222	21.32919551	3.000324045
0.250068876	0.41140224	4.756072645	0.150254059	0.440535564	1.486601033
496.363858	34.50068829	19.01396446	8.49008879	7.690513684	169.3070652
304.0609074	13.93233008	16.94179868	3.192783181	289.9435988	109.7032986
332.7348513	20.85895387	73.62360545	4.227920058	385.9590764	185.871109
2.779373249	0.754769098	21.5277844	0.533527859	566.7448932	9.922053811
1929.22566	57.88887821	109.0202779	38.01004071	190.0838276	394.9841322
516.8897713	36.9844031	36.03531598	7.863094549	208.116302	213.693797
26.19543768	3.207107244	73.90068179	0.760809025	390.3677405	45.2433508
629.5551933	34.61990615	24.84888819	8.481477159	31.32689867	198.1150673
0.986008809	0.931010698	1.40804566	0.219832073	3.070958988	9.025743147
1.312045272	0.746201429	3.255589363	0.083973889	58.11165587	2.635015338
272.5929795	18.9053375	27.63181806	5.024697025	95.58788017	134.6701944
269.5542706	12.72570726	25.07834131	4.50645537	112.6094327	78.34821895

0.597138054	0.808071091	1.315786068	0.106085694	3.883840912	1.104534625
1095.045208	68.07862392	99.42067235	22.00675246	1885.02526	477.1477269
351.4993379	31.03901909	35.22931965	6.551184383	956.2827668	209.1489075
0.22074091	0.290780525	3.453380811	0.264232289	6.022529738	4.104137895
132.7291985	5.78130832	9.818045298	1.180202185	187.7507715	59.6281244
78.91097793	5.940368479	14.64940462	1.040171974	112.6487155	48.63724977
61.89273839	2.951951204	622.4329748	1.139916236	5381.77567	749.3761888
6.15405232	1.105138597	13.87770502	0.279767744	69.50151058	7.506791749
51.02062046	3.970932613	299.3187026	1.022696752	3056.191407	375.7885787
0.21457333	0.40480024	5.096606859	0.161613927	2.058754645	2.528189457
24.12373861	2.061938776	1610.672279	1.656832806	8224.954681	1638.537429
31.8828133	2.886322101	2.030171206	0.246892412	9.030231523	14.74015913
66.28453177	10.39940459	10.29644457	1.288524789	369.662485	50.54254839
0.419738958	0.48276192	1.054846837	0.098689286	2.951232062	1.207077487
3.583297391	0.909458079	2476.709579	2.91277599	9517.625583	1472.576064
29.54681763	3.655028043	66.26933232	0.739236309	616.4791636	110.2578778
12.02625123	2.155232265	2.395717476	0.487627499	24.04062211	11.33430756
476.0964816	74.09115271	47.42366732	20.26114594	6.183189809	536.2086273
6.6679102	3.394676262	13.69044932	1.305073739	873.036239	29.0016724
0.593066562	0.500357223	11.77695523	1.130415163	1.099307764	33.71024493
0.721282153	0.482139914	7.085960113	0.439910243	300.3514333	6.515832613
3.734245329	1.994236654	2.688823445	0.673636736	59.00459764	14.34467122
11.86492309	3.340767721	9.567575457	0.59113942	486.3894017	12.41444155
1.234819726	0.526150589	6.312488936	0.673741211	24.44003124	21.2945574
38.26887651	3.664322933	42.67465403	0.703715462	434.7981236	75.89905065
0.581147206	0.393553967	2.059562955	0.363842408	14.38312516	10.4341911
0.484337957	0.364660442	1.885021524	0.391408657	0.701246174	10.8504467
2.472070628	0.486741654	2.353030981	0.529300599	54.26483581	10.28427524
45.27377416	5.980598919	3.235430986	1.056339865	3.48842468	22.62563884
61.72785934	7.260355948	6.51843812	1.206947957	52.39820486	32.55510469
0.245506838	0.451090636	1.497950539	0.298934457	1.751145009	3.29331748
0.369361522	0.317016003	1.598187224	0.279272235	0.430479655	7.990580388
63.82747724	6.206662642	7.723133956	1.142152172	136.1385634	30.93398859
249.278224	34.50089552	23.21138325	4.663752314	186.3985055	181.4297393
2.031204531	0.786068524	52.08905053	0.468127329	504.5121034	21.81762655
0.246935489	0.213104276	2.813971461	0.124957183	19.90745071	1.483371938
127.5332081	5.621618223	52.14952088	1.701760166	1261.912717	123.7153017
141.6386484	8.451733094	5.430581547	1.479302878	7.844031518	45.75357992
0.332348171	0.326413806	1.703613267	0.150254059	10.68726053	1.703797014
0.320188726	0.408981469	1.230379039	0.202976978	4.563997481	2.540818331
0.183779443	0.298178903	9.240737972	0.170452185	32.01948169	1.879850376
677.3578903	78.81036821	29.56372439	10.95171386	24.73305082	503.2019436
46.35711881	3.810986927	18.50247724	0.73066911	207.1237273	49.74869884
62.53716706	3.974577076	5.087841735	0.919260804	25.67079733	25.30181342
18.82424446	2.190324412	1.214095371	0.319966591	3.164678249	4.920740618
273.6365659	42.59132839	13.58614272	5.205169381	18.64880279	244.084663
1.224069602	0.858929005	53.6115129	0.622069453	881.5670963	58.79026494
33.2508031	2.676284637	2.874091126	0.642208795	31.14129194	13.54364349
0.62863646	0.38560858	2.898588743	0.242190818	21.61367092	2.087827084
0.662810555	0.4900653	10.22194078	0.535548667	126.5198444	10.68290598
320.3180433	30.54104	12.16833235	3.962797273	79.20730004	127.5841868
0.272702339	0.342561608	5.110496413	0.34993172	0.359053021	13.58197927

0.839604014	0.442847961	5.948113832	1.113761063	393.0529488	10.25792037
194.6321481	22.48525956	188.817937	3.519692888	7159.348893	478.7407505
61.95824081	4.597176198	262.9482608	1.722036414	8949.338279	465.4795599
6.236067084	1.537644779	40.65584804	0.720144409	678.7507992	22.08704132
15.38144065	78.18678112	95.63946246	5.374865304	823.5580926	208.5093246
0.788291752	1.185006765	5.018637999	0.664267952	109.5280193	12.84556871
19.45046505	1.595530767	12.42123544	0.464071842	178.5969846	36.46452543
8.743615972	2.093766279	54.66511706	1.272005566	2330.093402	85.35675084
81.61427043	10.32894369	16.07065154	1.555149493	170.5022793	72.88430737
93.76028266	37.60656181	10.48672581	3.773551284	248.4999115	76.92164233
142.2282025	12.16947707	5.53760805	1.891737758	40.19179017	53.26677189
394.7004654	42.77783032	12.20663471	5.411555933	22.83814109	177.3761349
58.01306251	4.719041047	12.75452185	1.082439077	423.8832662	34.50297584
35.11279109	3.324805778	1.284191367	0.514372147	3.029869697	11.14886715
53.74707317	3.719260384	4.111736193	0.650899936	77.21562434	20.94586611
63.13960565	6.177819121	10.31615328	1.29225349	241.5407687	39.45853299
4.702667549	2.554446763	2.643642761	0.647433527	2.181875604	9.23259141
0.418328229	0.360226725	0.790801188	0.181529056	2.122950901	2.326153678
18.14025105	148.0723606	70.28140329	47.20937051	483.6465382	40.30185227
38.83184808	3.466871221	3.7000874	0.778572106	15.54736557	16.4622083
161.1279091	16.75600487	7.539307381	2.647574941	93.43155018	79.71840111
3.752955076	1.940807226	1.318581042	0.413900861	1.043009814	2.955949194
32.49661811	3.380934864	7.031030622	0.615746746	80.21630257	19.73282852
14.15168976	3.180008242	1.35370773	0.572525399	4.082134002	6.130658472
0.295038694	0.669541384	2.303300291	0.32105709	1.679633138	4.620795498
0.362253586	0.397445065	2.564350999	0.152443131	12.45233395	1.694903788
0.461758323	0.577979572	2.390385967	0.260236942	0.26261233	10.25939789
0.345638219	0.489261063	3.376862214	0.177169262	3.071485873	6.662780379
0.582075936	0.431604266	6.761652509	0.300558634	68.71978612	4.437564707
307.3822146	17.78558474	14.07077557	5.5683482	25.51135711	91.0635651
1.173548435	1.716965356	6.041116793	0.215501932	33.58220143	3.740718051
23.9164046	6.505055185	28.131703	0.941792131	424.581994	40.22461839
0.216594069	0.052333724	0.422690488	0.01634261	2.158687458	0.050690519
0.497918711	0.075478283	0.545100344	0.032174839	0.102954782	0.143792675
0.159354735	0.029028242	0.468185388	0.009608425	0.036767752	0.128894943
0.109173681	0.013359629	0.272007581	0.009240891	0.129587911	0.061356725
0.166210071	0.0038635	0.40022837	0.009240891	0.069676718	0.047965526
0.091271112	0.01173993	0.470312685	0.000462006	0.0695451	0.105191566
0.090066746	0.013199092	0.337181772	0.025522724	0.052175959	0.015139435
0.107831152	0.067674471	0.355209916	0.000462006	0.097711273	0.11546597
0.049030471	0.011106714	0.22827834	0.018915276	0.047293727	0.018127184
0.064740757	0.013656367	0.238089379	0.010016985	0.071699127	0.084246369
0.063143101	0.000908101	0.245447658	0.01749155	0.041389195	0.044168539
0.08299945	0.028071516	0.158300227	0.000404085	0.000476042	0.042007901
0.066202785	0.009674109	0.339693172	0.011009996	0.053646508	0.063340458
0.050678594	0.050650152	0.31294934	0.000404085	0.069846885	0.044397148
0.061623984	0.015202172	0.319755975	0.025400622	0.025777056	0.038607551
0.090932321	0.00121852	0.24990791	0.010374928	0.040631851	0.051520341
0.090245407	0.058706869	0.510250697	0.008183681	0.010559948	0.067046434
0.152639025	0.030299536	0.324164702	0.018329225	0.026690936	0.008569886
0.051274683	0.000980464	0.166939894	0.000801373	0.000922821	0.000391538
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0.026731851	0.022765891	0.140680839	0.017397967	0.016960687	0.024465524
0.046741309	0.019330775	0.11560106	0.000618669	0.033205359	0.021607068
0.016923293	0.000781145	0.001906063	0.000618669	0.015711097	0.015630297
0.009569676	0.004439257	0.135346693	0.000563606	0.00066055	0.026228487
0.023324278	0.000707221	0.105835709	0.000563606	0.033515126	0.040559779
0.022266232	0.015635366	0.152432	0.000563606	0.038126295	0.029934856
0.070917769	0.034012568	0.361907547	0.00910073	0.026795547	0.022246594
0.048837654	0.016421052	0.170885999	0.033679672	0.034184129	0.036646632
0.269394497	0.050730877	0.983181263	0.000504102	0.104727944	0.125603651
0.100770718	0.06142445	0.494760011	0.031817527	0.100263964	0.063663179
0.102045756	0.003454024	0.193133093	0.000504102	0.014456351	0.046539703
0.260867984	0.380531608	1.59916936	0.238639439	0.244080646	0.142556401
0.165566185	0.047492999	0.670596695	0.000495807	0.071582417	0.050845627
0.266023752	0.119241466	0.655387739	0.011813625	0.184014277	0.099589566
0.227063441	0.005416895	0.568774089	0.017034416	0.172351634	0.104990107
0.339537623	0.124141332	0.614587984	0.033152543	0.861725519	0.167911147
0.118883235	0.074065034	0.358297576	0.012777648	0.103078426	0.057196682
0.234678429	0.039360834	0.51759779	0.01525236	0.310775561	0.113685294
0.305730533	0.171720944	0.659734069	0.101060685	0.225588577	0.074337431
0.069039567	0.000980464	0.561175234	0.000801373	0.152310499	0.033786457
0.11814761	0.054368963	0.548645241	0.120238823	0.185655356	0.155694636
0.185948048	0.058515036	0.545100344	0.01411684	0.935022839	0.217013206
0.450197171	0.106891704	0.60773036	0.000573341	0.615040383	0.265094688
0.362153513	0.279798482	1.208253125	0.05651544	0.479206254	0.144206933
0.135515504	0.119394876	0.851506568	0.011529956	0.067032114	0.070428008
0.402566711	0.449961691	1.459810113	0.202202162	0.32912179	0.198433163
0.271213245	0.395207886	0.471092931	0.087685006	0.15662356	0.147212798
0.302876013	0.27666872	0.829026155	0.066863705	0.223303548	0.166040837
0.185953436	0.077933305	0.383559667	0.022104559	0.110601969	0.075136074
0.163467936	0.104522466	0.588712929	0.008873358	0.179795178	0.076300526
0.153596254	0.047545693	0.44254123	0.002625291	0.075583455	0.063297478
0.140047958	0.014171867	0.29003124	0.000462006	0.02588753	0.058251641
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0.140650141	0.000553022	0.577094771	0.000462006	0.141368843	0.035486785
0.100954298	0.025554747	0.260164216	0.037423723	0.129563541	0.106963295
0.114001823	0.000483159	0.276107153	0.00894919	0.226004232	0.054880586
0.083380079	0.015781077	0.328841486	0.039915244	0.086657275	0.058943776
0.117356266	0.01552783	0.361785902	0.013838239	0.114709466	0.048322338
0.078673036	0.033088991	0.309461014	0.020555315	0.110555523	0.060439231
0.064675815	0.000475406	0.248996699	0.000404085	0.051154143	0.04900498
0.07582021	0.037342955	0.42135316	0.008183681	0.006212203	0.05105917
0.142679853	0.02879739	0.55046625	0.014757422	0.051138902	0.047216078
0.151380766	0.041615738	0.42664468	0.01225314	0.087007798	0.053826197
0.116064262	0.050995352	0.415683621	0.000801373	0.04762753	0.04843933
0.075832023	0.029437211	0.551788679	0.019731453	0.054874812	0.014022118
0.046572213	0.000980464	0.169286533	0.000801373	0.149894738	0.00891065
0.122071034	0.005590309	0.359710907	0.017397967	0.023208638	0.017189454
0.136587699	0.046124683	0.120617016	0.003866275	0.094435276	0.032261313
0.083621487	0.042002544	0.118945031	0.000618669	0.353100435	0.022386647
0.070936361	0.000707221	0.289114454	0.03162852	0.01968162	0.016097747
0.047306661	0.01501336	0.199028291	0.000563606	0.00066055	0.018568659
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0.081245565	0.01704932	0.41201156	0.000573341	0.068853632	0.045677164
0.337290271	0.14753586	0.915812814	0.067541293	0.14539976	0.12539225
0.204367557	0.104198745	0.811697939	0.024319946	0.153335724	0.086917281
0.150178441	0.046791139	0.482511202	0.012412024	0.138951789	0.059857962
0.205693258	0.455606413	1.379128444	0.23256656	0.228135431	0.104697869
0.133903416	0.122567804	0.909707824	0.04213841	0.17401834	0.081820789
1.771570131	0.217203667	0.391386857	0.026389841	1.020754249	0.453073218
2.978333114	0.494690906	0.517703978	0.108254123	0.277176843	1.423806277
0.688318658	0.224568523	0.521892042	0.061086644	0.267801529	0.415230596
0.443777221	0.126294522	0.657354955	0.040426315	0.20367229	0.24259889
1.203366451	0.181468274	0.455014066	0.024434446	0.258756379	0.49403187
0.22996517	0.000781145	0.346335025	0.013067825	0.704860059	0.123731902
0.705058776	0.161184785	0.630820589	0.013384047	2.114881356	0.834216817
1.867598127	0.435476089	0.856684674	0.034682894	0.348483061	0.850370797
2.276623108	0.347899662	0.738205086	0.072833703	0.23418336	0.647763949

1-Ethyl-2/3-methylbenzene	1,3,5-Trimethylbenzene	beta-Pinene	1-Ethyl-4-methylbenzene
ng	ng	ng	ng
1218.046194	450.5992766	625.9709829	288.3998116
85.74512431	4.474007742	1314.628493	26.29218219
17.9093469	7.244174398	324.5930005	8.068047525
44.65284785	9.800690864	319.8905116	13.04791232
14.50633821	3.97302115	549.1486362	9.451750875
211.9919152	85.61692423	1544.923554	68.03957636
23.88019429	18.20136248	4527.063774	65.70568595
14.32372461	2.131767784	197.8324478	3.650970903
264.730689	99.34386648	80.05605786	65.76078883
14.39299839	6.882689403	3681.385169	52.9531487
386.8044517	133.9121808	146.2372359	94.36450142
1066.927546	362.9644694	22.94523348	247.1342805
39.44634174	6.38228736	134.4059578	10.5256768
207.1656477	78.38435951	324.9922944	57.35542917
349.7131142	130.7071908	459.8848393	86.32135963
407.1474645	151.5751939	607.0366925	106.5774014
17.08088318	6.033598399	391.3840097	9.946878003
14.53412647	6.695326134	330.2958075	13.97815117
172.3361588	37.9380385	257.8980349	42.16991348
21.71253535	0.555985221	18.18400238	4.316356633
6.200297784	0.286262341	27.31836216	1.61812477
10.85009827	2.631799916	895.986591	11.39115763
15.25869593	1.346424674	3.436796804	3.622883396
5.148783253	0.221602593	1.817648108	0.946402635
37.67152121	1.287810078	126.3459297	11.45054176
4.800625493	0.698054937	226.4480892	3.455487849
1049.005475	374.3822695	20.26503434	242.0090877
772.1941589	277.0645113	319.3674951	177.0048405
206.928304	69.6039636	10.3372843	46.64909179
14.84281683	3.934202489	6.408773045	3.567758007
66.39197785	2.151035117	19.84693387	13.59435316
1477.877412	517.9834058	21.57729165	340.9477921
137.7208503	50.54844288	971.226548	46.64947078
2.226377507	0.394330587	15.66682005	0.823332137
895.2220621	318.2212505	330.5645976	221.6624811
10.57546776	2.48242466	1269.120448	15.2084261
281.3354851	99.46421717	5.529297015	65.86161432
21.37777624	2.052920647	196.8697394	7.486095454
60.5196539	15.59635289	11.63242404	12.0890172
681.8784097	222.7788402	57.54329817	149.8517434
6.54788292	0.296473418	6.060794501	1.551747615
44.46358725	2.092809654	57.41928075	12.06003963
140.4502542	51.80996285	50.26155803	33.4136176
22.60624121	3.062493066	979.7881149	13.65354401
73.75542005	7.415339265	125.7651225	17.07132632
47.4129771	15.24966476	3.283492056	10.56641195
113.1035673	33.32762899	1457.430805	39.70593782
30.42377048	0.637894399	2.759060292	7.657319774
70.91775499	11.58266015	159.8282233	14.82407618
5.635412538	0.545224593	204.4541273	3.073373432

6.447583839	2.446957539	11.10111077	2.153482842
31.87890453	1.022426641	6.014627067	7.062112132
28.65067289	9.211225449	140.3510901	7.915243687
70.1158842	3.953110096	16.34730473	17.29330815
27.36968173	6.214163333	4.829390946	6.28600353
17.60919072	3.308695013	10.36801241	4.157974915
999.0526562	336.4237515	20.93127234	221.046426
85.88315604	30.26567634	142.3942784	24.1160254
214.1477304	80.46230981	5.129333625	47.75563338
165.5257814	22.10325917	28.35969678	34.12880123
5.413568104	0.314670096	37.66200118	2.192982355
9.068042488	1.747016345	126.6624308	3.238336638
3.659137502	0.974087417	9.974888386	1.110633961
47.03165064	18.81904432	8.143379251	12.15230763
1.537522445	0.286494143	80.23314235	0.922277736
115.4548194	40.87780114	70.85803746	28.92282794
1.096470952	0.167234428	11.86070963	0.411204115
23.85106452	8.60831056	69.25137922	7.255903184
2115.018555	851.8798843	105.6217091	515.0732513
1.755481992	0.331402321	5.280222138	0.359265969
2170.685414	1296.021456	31.60964306	697.0434123
6.582804176	2.81051306	2.007536738	2.174917879
1.556618117	0.585385817	4.030368669	0.545179584
2.688455217	0.51783501	6.789408398	0.629295552
96.03532232	29.96866614	488.8106925	32.11153883
242.3068988	71.05087467	1039.946246	67.0084588
13.78771912	1.262373859	73.54023913	4.506726238
31.05599035	0.892131326	19.00642459	6.634083701
283.4032539	106.5170366	174.863686	71.39727032
8.667102248	1.828996801	227.0820121	4.475598611
7.636261436	0.494125863	1.800337841	2.217424702
2667.047026	1130.13652	18.61526438	711.3165681
576.3963797	228.6729918	24.17319147	145.120192
24.52488068	1.643079272	778.0547624	12.2529194
8.213730519	2.927872993	2.775617753	1.92676095
8.723724452	2.291065337	3.132457762	2.02521749
10.93724367	1.15261489	15.82792623	2.252288428
1164.398527	414.5550465	102.4135433	279.4572964
129.4308601	51.17035571	60.27556289	28.43289071
229.7024962	88.36296839	28.87661697	57.9480273
191.6722131	68.88768344	8.8880013	48.022401
13.68539961	1.815216687	3.870809294	3.400505827
8.347297632	1.575021816	321.9771071	5.8184776
2142.001842	874.864302	57.59758208	555.3129053
443.5902359	168.7904391	180.9345207	112.262932
283.2516068	99.38685672	293.6782765	68.84571374
231.692317	29.43301271	4.033413091	46.62263288
4.248476233	0.339665679	154.7795958	2.793899192
219.188556	10.98422442	19.24020938	55.03241006
645.3558023	271.1529546	7.073755172	160.7058396
376.850247	151.6592351	285.7526227	102.3457848
202.6770833	1.818109744	2.990490849	37.70791906

96.0631372	3.71096264	12.11942548	20.68075205
37.01523201	3.589961853	3.721223887	9.080205094
27.68657107	6.300804579	156.7838681	8.249217576
26.87011376	9.281184943	0.929048175	6.114350065
52.92330035	7.395179602	0.506258329	10.01550526
595.8625875	292.6570788	4.64661287	150.3939267
18.41773077	6.134813399	7.20657828	5.007563365
275.3690279	96.51051228	1.879527673	54.8429293
31.5841031	2.20010118	2.038054792	7.052563432
28.97352387	6.123852247	335.8090204	9.53230186
19.0197459	1.829990609	7.775507118	4.234264201
51.31454826	7.126778228	1168.630721	22.09201966
234.2181575	66.10836681	4.37796527	49.86174683
75.81715759	24.82042964	12.32432218	15.98009693
16.93909016	0.801010816	25.34598696	4.248844072
13.29063626	0.304178509	18.90687579	3.413832515
18.30530293	3.155663643	2.297453186	4.666201019
245.1814311	96.64342931	12.46923207	61.26825666
28.51190342	4.853451259	237.0415612	8.603668055
28.4538144	12.50610099	809.6726746	17.57136083
14.57276737	2.647134699	46.07988412	3.801151387
291.0567241	107.1832398	126.3871634	71.45649442
11.48360345	1.14172907	5.052850511	2.958838173
28.45760014	6.732528263	333.7983442	11.92875548
25.18798261	3.023035925	191.9141952	7.777382373
17.24830555	2.430959446	170.6599257	6.061245953
9.502454963	1.324165456	315.6595193	5.784903429
806.9965778	294.8904967	28.83411742	178.288421
53.69260918	19.70104152	303.0741997	17.72613567
505.1599339	199.6774039	3.897399283	113.4384505
191.7821745	50.09614257	9.087225014	36.07509719
26.59399421	3.770729252	220.2958059	7.431626534
34.25814047	10.22689569	1204.23685	21.54452465
23.66788836	1.189058506	158.0319061	7.293216884
73.00518719	8.708595313	361.7187637	21.09888752
20.1850601	0.689204903	55.46996619	5.052254944
21.20105267	1.879035436	1015.497975	14.71630447
20.32184175	1.628122943	339.516535	8.029200392
108.3108933	15.71679108	23.68668082	22.55182202
32.39382948	0.823076703	77.5405791	8.319722235
60.07749644	2.000384467	88.60844673	15.14165745
566.6143025	264.9971049	40.06832454	138.2401882
376.7439676	118.8963399	21.7004705	78.87063529
16.81309035	0.667693524	0.620654175	1.681063099
2244.822927	1169.770922	13.91217855	599.1239768
44.04475404	12.40616078	758.2358225	18.16901876
48.04880516	13.8116262	8.09675824	10.7843124
31.44988264	2.338344538	757.7623518	12.25859774
6.342672141	0.409325795	4.564138863	1.392000916
15.88159098	1.915005771	695.4449884	9.263314391
142.8730902	45.02710858	424.4553346	34.25288071
44.16467567	1.644795039	4.389726465	12.14625224

1551.307656	581.2707345	92.54531802	355.261255
29.17544851	3.736363889	3.039206368	5.453347418
17.57169733	0.732107705	0.354355411	1.676459185
463.1156342	160.6967668	1898.57469	126.0696148
19.54876077	0.975152211	42.51036534	4.677817882
432.5358946	146.0057331	76.78974059	94.84250815
586.8743634	223.6110816	10.82403795	137.2008468
498.4388331	168.7036427	76.39782541	107.9749586
25.624858	7.526123406	1139.320144	22.49894911
1961.301081	800.5515885	17.8867404	511.7089158
523.1851945	194.9660945	63.17189026	118.4995724
88.55470997	16.77094657	1526.840516	33.83905948
527.413235	203.9958308	206.8365566	124.1461502
26.22704805	1.873259532	103.5237354	6.61037622
228.6160121	78.40550847	68.40164763	49.23549358
79.98001691	24.41667016	1813.98936	37.32228465
22.98834038	0.690109629	2.358872176	4.594400008
9.730192659	0.589157475	124.5012002	3.832322281
211.9756204	73.19210302	5.450923284	47.77167374
23.08920668	2.332868903	291.693896	8.316146867
30.28678297	5.473312034	260.580391	10.54587704
35.28539529	13.03298929	9.095703846	8.820670108
7.510599477	0.520982913	110.576706	3.265415089
314.1711912	144.5023534	178.003018	85.16922929
53.56462848	5.22532191	8.85341144	10.88333954
34.77600037	6.047802796	512.2266809	12.90116317
6.451092941	0.584855039	6.719217043	1.554982814
14.35319444	3.047345705	1085.762024	14.20133129
170.1112851	55.17690907	83.59880042	41.15063061
113.576682	23.93734216	1.152694773	21.14722092
359.0711706	129.4287941	49.42398359	85.70345037
433.8569802	150.1940855	6.34372092	96.16008136
126.3020867	11.18505496	17.42615996	26.34451756
15.08845401	1.071384835	20.97051676	3.820849495
3.978579311	0.519057649	2.3149417	1.185215828
54.82811376	22.38109193	1.82681736	12.61431219
302.4650298	98.29943432	90.32604467	62.81307167
15.45099751	1.310375459	198.0721714	4.922186222
35.56007774	1.609417834	92.77417759	9.841136567
287.3345035	104.0902236	5.714321024	64.47587884
18.33360809	1.701920527	54.93196792	4.99608303
5.208535789	0.196069464	1.440228929	1.274889483
30.23497164	1.271580953	6.929206453	6.841065656
58.24329179	18.71849834	2.038434468	12.26444562
12.0457393	0.821638518	4.141471058	2.960452697
31.5923204	4.042713011	204.0377454	8.538495548
2348.866963	824.872741	21.05034889	593.0548519
382.4085866	140.3709245	5.2590481	84.31205463
19.42176973	1.69441076	9.44873454	4.517632268
119.3095441	12.19526403	1.482364141	25.66260662
507.3488498	196.8723925	7.48520689	117.1840993
352.3489902	151.8610115	4.515830412	90.68214814

338.8890589	128.5632292	25.53626399	82.00982864
27.1991698	0.559413157	0.852267863	6.566086308
19.85090237	3.13701013	0.531362153	4.997004109
169.8602939	58.64986376	2.922398191	39.80614117
4074.688531	1969.828259	202.2372448	1291.540226
8.602731271	1.354243942	15.6455844	2.709250073
304.7301372	102.050299	2.17412155	68.86762827
84.24426625	11.80246791	5.744647722	19.21404635
24.51285896	6.541651473	4.468281867	5.558009379
523.3850702	180.3268657	1225.426368	123.6422446
41.96638273	3.157189895	3.229100113	8.977746663
165.7470982	59.00579322	57.18020927	40.12901085
21.65326615	3.929643234	1039.074324	15.94306735
293.0040347	96.26944747	19.51125117	67.24788652
85.66489819	4.130339392	322.6372688	20.7541078
14.27033064	2.198105102	4.557916311	3.51879552
25.74218984	4.366702703	0.278025556	5.745811072
158.0148006	57.42098416	1.076840261	35.84611713
500.5895527	248.3476851	5.490567591	129.6726267
32.6063989	10.98148556	3104.851128	49.55567191
433.6086245	100.9224812	8.204206177	89.07346156
163.0766591	56.55688793	75.63092091	34.64631506
173.3883576	61.67759348	26.15259738	36.91070598
2874.602741	1364.79233	10.0280449	743.7783915
33.05237481	4.646347968	13.33534484	6.629359532
334.9568261	128.9232822	5.96941572	78.85337993
234.3011403	79.14278715	128.9027093	53.89021549
306.0023646	130.9019974	158.4456946	82.97342158
85.83397921	15.84291944	255.9537248	20.22637899
426.6502583	132.4943345	8.934145428	94.21626646
622.9324317	234.1897015	25.06156557	143.5377046
278.0580549	93.50827462	79.25078278	61.01745634
174.8102141	64.02843304	29.90650128	41.51929251
2267.113398	891.526701	19.51584209	552.4336502
34.21838794	8.447768592	348.3182305	11.5784503
471.4798423	204.9726363	32.048585	110.9872561
12.09886542	2.862181675	2461.215512	30.46709427
210.1422174	68.83517611	2.291079145	45.35709363
444.0956362	149.8246087	2.132350981	93.73349257
310.8707776	102.2917644	55.81071548	69.32123795
443.7300752	161.0313485	3.144790026	104.711308
74.17924524	6.982378778	1.747789335	15.95780094
191.5233073	31.20662425	20.97629282	36.02225316
198.358701	33.37824602	103.8280394	40.9955792
370.4428896	116.4290919	2.467628985	70.64923401
520.5014661	175.2590429	107.0096143	117.787232
26.48209981	8.349228847	351.76387	11.64046505
2481.893374	857.5593747	281.5939374	578.0428193
357.8700004	125.8074648	5.28503539	78.958786
231.5076217	96.56346732	6.860577757	54.30633689
16.00498676	4.814799911	206.6857326	6.618514241
43.45041315	9.268750104	563.1194661	16.51683865

16.25709933	2.19864344	1.207971432	3.71845034
66.7858234	28.16204063	295.4315632	22.34601398
99.14112439	37.77565132	5.623893583	23.60657574
12.27812777	4.410932405	2389.808398	33.27585477
33.17383285	0.666768298	2.705547867	4.418176703
11.41408104	4.352354145	501.6165394	8.852097537
54.99673371	3.275142138	3.217694616	12.12436093
11.11835861	0.341713016	8.485207669	3.070329128
13.36323166	0.538484826	1.299671673	3.269366619
30.8022593	3.100158068	16.98676777	5.785216389
82.94534013	1.602885359	2.097591071	18.832562
895.2682993	473.4597985	73.10425313	232.9081548
29.18704992	2.331984252	1742.637807	19.4913867
15.75396276	1.033160006	1.028383347	3.210261913
1028.280141	366.758045	98.82930918	228.9378022
387.1956181	28.08670161	1026.572627	86.60194217
105.4910145	5.931160615	6.785194623	23.93259583
571.6181916	211.1775128	25.98891565	133.2979425
35.54416571	7.440402626	5.035523051	7.49410002
6.419838315	1.00211257	25.60494732	2.378886071
35.51991484	9.834166911	64.61915317	8.575902251
84.20984586	20.44223992	180.7105991	20.2014963
1856.475934	782.2414476	48.52655642	482.6722964
312.8467119	118.7204376	3.238916312	70.5590517
1773.604184	789.6063196	260.1185832	459.5323171
384.9685933	176.0783995	3984.254319	130.0834409
144.8050942	25.72540789	300.2778929	35.45774414
765.5766179	308.5121429	33.61006273	179.1679332
1916.956879	1129.92538	66.06682349	521.9485774
639.8376256	268.6061197	100.1428977	145.3118724
13.62131421	1.295608715	0.74058047	2.850955795
415.2006054	54.13542028	468.2158409	97.5740132
12.20893867	2.173192061	494.6579661	7.204440502
20.11235179	4.126139451	9.254054265	3.982471652
54.2258589	2.523628325	71.24578707	10.70980855
635.9054796	240.2633548	9.361299395	142.0803863
1392.034499	606.034698	15.75023691	359.180135
757.7005921	374.2563786	167.3575017	203.6584478
6.34443565	0.253450053	27.28060623	2.212265206
6.678870856	0.651543311	16.93483697	1.078168232
979.1413726	413.4203383	4.032918363	238.4493282
537.1200456	227.5321713	45.3771022	134.521906
621.4062653	222.9909601	262.1336354	147.0483753
18.08937098	1.966967435	231.2642952	6.381576902
2135.336845	1622.59171	35.72782341	802.173886
1148.025877	439.2296229	64.39953902	271.8338375
51.98471295	13.32588079	110.1973791	12.91825021
1126.693232	417.1829035	13.79457302	263.5299263
50.30033638	4.92849805	3.91055372	9.647031728
8.758592424	2.267494731	38.40871503	3.115306116
669.8366434	255.550863	22.53010737	157.0623496
356.3994631	221.6012335	49.47813983	112.2395923

5.357207959	1.2425543	5.66849099	1.322713084
2165.919983	1158.77128	435.0049719	602.3057816
1000.870242	440.2296444	224.8892278	242.2172299
20.5927864	1.221039797	5.957173543	4.862650333
293.1116897	96.53098243	106.5727975	69.9786351
182.479811	56.06169823	270.955066	47.80455716
136.4117257	55.43665919	2080.629947	62.6297311
14.3047635	4.898291684	131.4053327	5.156543855
110.8981853	46.19892472	646.9872408	40.10173582
7.289022574	0.552001473	27.2028429	2.127669585
87.31071573	32.45047466	1880.264313	45.70594257
87.8558623	31.99804264	19.14130072	23.50289243
248.0094662	72.40564822	235.5516566	52.03655377
6.133324828	0.491548271	233.6613739	3.826780749
19.09498714	9.77626913	5490.557258	78.64847357
87.67884163	34.16398658	168.8867318	26.67903129
50.12865192	20.64651915	7.872606601	12.01700221
3351.442436	1487.106748	14.29014313	858.2558176
124.5943382	22.86162499	226.7811245	35.64734345
244.5088668	10.42086361	2.301820149	52.90720232
17.86783744	1.308882468	217.1457879	6.454326342
81.78259339	16.29690878	248.3633684	18.75466906
37.88156916	12.56102308	179.5941516	10.20956663
93.85287662	5.508214861	211.1316551	22.42569251
126.7326954	48.13993122	134.3715284	31.89644106
50.80549689	3.478854083	107.6569186	12.78962876
57.37025877	1.055593818	12.00537059	12.6029628
52.48529622	7.511353768	166.3050022	12.28526201
157.3883267	59.40504297	1.961582203	34.71156991
149.7235341	51.39070349	7.906963397	33.88167663
14.33881921	0.373439761	1.697309663	3.474658074
41.5100084	2.055173786	19.95167599	9.935269095
122.6659088	39.90300623	21.70864635	28.13313152
929.4264609	316.2493894	40.10096323	204.8687973
7.668397815	2.216520809	463.2129662	6.303949086
4.287389749	0.722196812	78.48803971	2.006973296
205.0312126	76.93713061	917.2497853	62.33289887
271.7879544	97.83133959	3.031142172	65.06108176
6.140920348	0.599904929	18.36848212	1.699689093
12.11681889	0.526296064	12.42750998	2.65957911
3.775600125	0.550365674	364.7348631	4.532213527
2731.932833	1145.961222	26.38128422	734.7565786
117.9519969	40.35699442	226.9156988	34.01099749
129.0724767	42.86856588	10.01476601	30.21227252
29.75014734	10.42985019	7.899142588	7.914487952
1559.32189	533.6874896	24.06638388	366.9893849
4.549471522	1.473354452	1288.502429	14.76783469
68.9735858	24.94416479	20.26644077	16.98368477
6.435725544	0.638864491	68.84607183	1.91576832
21.61295608	1.075535244	138.0347775	5.682654701
802.4900885	230.9856902	122.9550632	178.3344933
60.64020851	0.688622854	26.07288225	12.88686615

24.21779473	1.764612059	86.11509498	8.326665197
607.0246881	197.4760649	725.105654	139.0893136
105.8040561	49.29265031	1040.614473	42.76192391
19.53082498	5.259085493	473.2240189	9.883359581
39.84239028	11.94147657	484.9770796	18.94596535
47.95002515	3.31615011	828.8850829	19.02669794
43.14865303	15.9450944	191.0481065	15.64777029
33.72755448	12.03264458	1221.047971	21.12641512
276.9139051	96.91764012	95.3396376	66.7281238
396.0579581	130.9339834	54.29785944	90.46659983
319.4945401	101.3545884	21.68862625	71.25503752
1073.86662	371.1239282	36.22497635	241.9618981
115.5030941	35.35663107	142.9593469	26.98499133
64.93946925	23.81465638	2.82563824	15.366401
92.99072177	31.67377469	19.87879271	22.38442697
129.824577	42.92573888	76.42124505	31.6553504
55.75872268	7.789841682	11.95037945	11.53195872
10.11262579	0.831136264	20.48092065	3.040889573
41.39302902	16.9910621	95.66214575	11.36163035
76.39525474	28.96680684	4.841941821	17.73421305
491.1920945	164.6718179	135.9034084	110.5841744
17.48540351	3.473580707	1.979551213	3.94348594
74.22256327	27.80884853	20.55279434	18.08611069
36.97878119	14.179635	1.92976514	8.593911569
21.99861217	1.892988604	7.912100066	5.625129199
5.411744631	0.998176748	21.09869619	1.39623562
42.97781041	0.918834498	0.800780916	12.09567724
32.2734339	0.617900796	23.11822402	7.422124911
6.922790882	0.7341811	159.9224679	2.907246164
509.9444309	290.8179665	3.43318029	140.894326
15.06672928	2.684544195	65.46860606	4.592593186
154.2878846	53.80013633	90.29151894	36.10277686
0.088633908	0.165409307	0.038135733	0.075262493
0.337023684	0.499051743	0.029912712	0.284816239
0.000796634	0.042087395	0.000530737	0.077884081
0.061650633	0.047287417	0.051862814	0.077671956
0.019467748	0.042087395	0.030779997	0.06176257
0.03982686	0.013656294	0.016539644	0.039570939
0.018885118	0.044815319	0.017053968	0.087966447
0.035494086	0.067071765	0.062828838	0.029346536
0.003817153	0.016868917	0.05377634	0.075836856
0.029256566	0.038479694	0.020931219	0.051825354
0.031738459	0.038707176	0.012498012	0.044681436
0.013404485	0.071076626	0.027790313	0.021933641
0.034689892	0.054484953	0.015067059	0.03444916
0.038680905	0.043034361	0.047329595	0.020760311
0.031994702	0.051986716	0.025523011	0.031605614
0.046549962	0.067513754	0.035468385	0.057683292
0.117646811	0.073684757	0.053767873	0.069569036
0.001453724	0.077050748	0.043373956	0.070352376
0.001453724	0.023479196	0.022620039	0.031518203
0.001453724	0.01312503	0.001001376	0.016761217

0.00111748	0.010018795	0.000780069	0.028508409
0.005967655	0.000411	0.000780069	0.045703402
0.00111748	0.008595418	0.02435727	0.01042402
0.000980358	0.000353037	0.000710467	0.013793132
0.000980358	0.000353037	0.000710467	0.012984324
0.043530625	0.037643528	0.012367517	0.024038025
0.001002839	0.041606719	0.000704645	0.048869822
0.001002839	0.039009444	0.056686774	0.020774468
0.049682409	0.154892716	0.024648734	0.069580008
0.045927239	0.093707549	0.017392211	0.071247103
0.067707228	0.062679999	0.049767468	0.035999958
0.11755693	0.088973147	0.285911953	0.175488088
0.023597942	0.046717427	0.090419301	0.015883694
0.33065297	0.463967441	0.161860122	0.252887327
0.214582082	0.261881132	0.117861547	0.131590567
0.526255823	0.451814237	0.571308922	0.211769739
0.10586297	0.215961663	0.092315386	0.047551343
0.205638314	0.232319651	0.113217874	0.122840007
0.265193618	0.370568831	0.063263125	0.132875395
0.055715999	0.202201096	0.03732073	0.051323632
0.117521666	0.244164313	0.0896998	0.100253035
0.183812107	0.325358991	0.300087336	0.154159206
0.92114282	0.719170782	0.272704773	0.331459982
0.148818913	0.216077884	0.196014318	0.165318876
0.220918189	0.155762647	0.043069139	0.064340568
0.400145705	0.191160183	0.300722003	0.195636728
0.253512739	0.194750539	0.113621712	0.098968534
0.469903135	0.235349172	0.192114974	0.177978369
0.072023474	0.227027308	0.116486232	0.164855391
0.11420636	0.260262231	0.119236165	0.13388512
0.150857064	0.275410121	0.066987444	0.092096466
0.000831893	0.115512266	0.064371811	0.11568594
0.050658795	0.332054398	0.121461818	0.169080044
0.021773634	0.068904649	0.055113972	0.082059014
0.06028024	0.197716997	0.082626784	0.159182566
0.018088043	0.253450053	0.038241486	0.150649553
0.132875637	0.273240975	0.046674692	0.106198508
0.000766275	0.104493659	0.061416055	0.086662337
0.063292157	0.119449534	0.053691222	0.044031353
0.06794834	0.09865152	0.102312228	0.064173515
0.084057749	0.049398876	0.055359133	0.083406171
0.121565535	0.310372567	0.010406043	0.141060902
0.095813921	0.18894316	0.061724172	0.136980721
0.075906613	0.067146763	0.007919349	0.088216096
0.001453724	0.131522662	0.041644463	0.021032977
0.001453724	0.136474654	0.042509209	0.047828556
0.00111748	0.130294152	0.000780069	0.113593978
0.04088891	0.117127915	0.000780069	0.07416408
0.00111748	0.045247376	0.01964183	0.057265552
0.010341417	0.030919013	0.035681617	0.035630931
0.000980358	0.030307693	0.035681617	0.022150808
0.000980358	0.030307693	0.035681617	0.029430074

0.094148514	0.053619115	0.018959687	0.240081889
0.100242156	0.059787643	0.019568188	0.141884537
0.173603039	0.371795585	0.151358791	0.127213854
0.105258934	0.242755776	0.069862455	0.062673473
0.000865191	0.151702968	0.043627333	0.047193308
0.151012024	0.100020395	0.312570042	0.128625521
0.071289247	0.104715475	0.069685232	0.034673998
2.257376834	1.031665502	0.05377634	0.53165851
8.916298227	3.434556405	0.075081283	1.899718796
1.947131084	0.78653509	0.089969033	0.445832676
1.033508583	0.655749648	0.152823795	0.412659031
2.853020043	1.140535984	0.206238539	0.592089127
0.368760702	0.189008454	0.293811002	0.070013564
1.004315652	0.685642218	0.654118808	0.312782262
4.530320075	2.770043896	0.252015725	1.235421168
3.177739525	1.334229569	0.204945423	0.586617524

1-Decene ng	Decane ng	1,2,4-Trimethylbenzene ng	Octanal ng	Benzofuran ng	Indane ng
20.34330651	48.85971353	1749.75101	34.4626392	10.56845954	113.4988462
18.35054407	15.51442301	157.4574376	15.40150156	0.506785214	9.690708002
11.2796307	3.430526474	35.85000745	73.79259885	0.509946722	2.314880604
4.74103303	4.018489547	68.41744993	13.77514805	0.39277168	3.64193907
4.451370132	1.268776474	18.0437934	2.931684686	0.326465295	0.90103788
41.18410944	14.72936485	316.9040327	7.980062383	4.75928547	17.99149764
87.57322636	7.961517737	47.90637594	7.092662894	1.040089622	9.792288471
2.142463809	4.090368025	15.0759532	2.296935866	0.252925947	1.964200218
8.505450876	9.623019676	367.9974131	27.29373425	3.699694525	18.52118452
91.96504404	10.60232658	32.55412464	7.816020736	0.778280695	2.611237661
6.495489136	15.48783341	580.9147032	21.24703196	3.990447988	30.93553895
20.87302719	49.04656897	1593.961468	73.03604107	7.077716776	90.06737029
5.422575823	4.75701687	70.21733872	8.296036123	0.432254722	3.894637211
11.84919318	4.94438924	282.811803	7.969135664	2.68404314	16.55117619
10.79852439	10.39573104	509.4372713	20.01476911	3.520230832	26.62871755
50.52387097	27.19814426	607.0304158	16.08748527	10.02175046	34.9799786
5.19527712	1.71710956	29.28537132	8.239673746	0.699695048	1.841733523
43.13923583	6.914171533	32.33562484	12.36690606	0.629287238	2.097350945
14.51339398	21.43760434	297.8490331	6.933258479	1.315934283	13.24362362
2.407507231	1.528136027	42.13441521	3.873922356	0.163937787	2.543508952
0.936884635	1.880469361	11.25782723	4.286092539	0.181867342	0.835174625
8.407033517	1.320413944	19.47725106	5.94874949	0.388712966	1.137888564
0.688710026	1.312620666	21.34040518	3.321215067	0.146682867	1.282009378
0.881577415	2.402209654	4.958815882	2.12889365	0.051915725	0.624614713
3.007517756	2.22106542	71.26754814	4.554095518	0.653188285	3.841813969
3.753835447	2.415521229	7.005677679	3.547872516	0.157377615	0.571362554
10.61549238	56.15941035	1556.362966	21.91029004	8.770937701	102.0803684
14.51448145	37.96369086	1191.646219	22.07658408	7.464055374	71.70572971
2.448706477	5.942498984	281.8029241	6.137583715	1.780114896	13.51805602
5.332901115	3.450080141	25.20552847	9.018406269	0.597846125	1.616172847
2.931113503	5.699469252	96.13906514	2.850476564	0.300704757	5.91317498
14.76668046	57.3178912	2172.276774	58.35390578	13.65071832	136.4006745
11.97297849	6.424798488	201.8722835	8.764791552	1.898048229	10.45081606
0.804792503	0.50636238	3.568028534	2.345295186	0.082600588	0.32216683
21.86892654	62.02256808	1575.244454	34.33126464	9.859210136	110.2939426
5.635858178	0.798709864	16.30301865	2.791344699	0.342015382	1.04901511
6.069106773	18.03174048	431.497254	8.951650132	2.391802573	23.41085296
4.92409263	3.540801229	30.45081435	9.195771824	0.284570278	1.641193531
1.408818982	3.377556101	91.01075418	8.635196085	0.671184944	3.891102572
6.714395023	23.090739	969.2206496	17.09506759	4.224119014	53.87133027
0.997347434	1.133735813	8.726460922	1.905273369	0.070746837	0.677842841
1.733429304	2.408092266	68.4072522	1.646934681	0.358934917	3.89255592
4.491810083	8.511772837	203.395134	6.684107972	2.038468804	11.27398696
8.401318741	1.817581668	37.87922267	5.143707882	0.278273541	1.808494434
2.308993244	3.853563634	118.6395569	10.37586853	0.865119224	5.107988815
0.802592488	2.510245796	76.08861768	4.317636175	0.713462926	4.260787437
20.68553753	9.237154374	180.1760446	14.11097604	2.190960279	7.500657503
1.168107016	3.119223156	56.74785521	2.359173724	0.220987005	3.39837338
2.963896391	3.937823507	93.91863074	4.840750684	0.432047296	4.529166568
1.468118255	1.240700993	8.861814171	2.680698135	0.11333775	0.780213093

3.36186949	2.20298724	12.67619289	3.843500146	0.248644439	0.685281029
1.090656844	2.605504045	48.88553128	1.692801279	0.41919749	2.741776229
2.533555628	1.821058265	41.14741331	6.470265426	0.408598807	2.164047866
1.157048852	2.53961312	106.9547935	4.870731532	0.246469245	4.566677909
1.733182348	1.510373265	45.64164691	3.077660264	0.350221825	1.75593963
1.403088181	2.137213217	30.10889284	3.59604213	0.340647641	1.384767361
9.27950178	38.77187393	1392.717938	19.12941503	12.60563319	80.11793235
5.024954737	5.007339976	138.1458684	10.22048016	1.133937168	7.710930107
2.587370575	6.998056264	338.9195296	11.07565647	3.364596497	17.8918014
2.532823665	7.74543605	251.575996	5.273699451	1.408216365	10.53919718
1.860391938	1.421854261	9.959545144	1.326288811	0.157623264	0.68160106
5.141135115	5.481797203	11.09825638	14.52515692	0.487298888	1.126498654
2.07117599	2.10876559	4.654429932	34.19994415	0.176848938	0.521799586
3.429622276	3.272835293	75.02175902	25.20115871	1.948228644	3.998026638
1.015199736	0.85363758	2.173994913	2.958398088	0.152295159	0.282790067
4.647508958	8.059959149	162.056211	24.14506088	1.974185495	9.447663698
0.566941367	0.45424734	1.879270526	2.375770487	0.073013008	0.126323035
1.665603019	2.130181479	38.41686767	8.402078199	0.649059524	1.929014345
26.22429766	101.2129391	2507.31794	84.22071102	40.1841095	208.0866882
0.426630165	0.442779267	2.595302281	1.60067186	0.093925442	0.290265016
32.13355057	81.58060778	2422.050949	37.39166282	47.7692266	210.3856244
2.399101484	1.340726367	11.04306729	10.27171558	0.315116484	0.729865992
3.312238946	1.86317897	2.935229686	14.32493108	0.14415462	0.20496809
0.586221105	0.457343862	3.657046485	3.155789843	0.098951926	0.286461803
13.1063896	5.066602635	137.5087977	9.871419095	1.627241134	7.794241249
41.2154662	34.9381057	306.1356005	48.9708079	4.947668934	20.32679653
6.376036222	5.318365811	21.01345099	16.86792289	0.300319365	1.595279622
1.089927626	2.902859651	40.18470901	2.496210854	0.180005852	3.091495712
5.894753026	10.84010871	382.9409693	17.11981493	4.291360612	21.19901088
2.430581556	1.163317857	12.5551945	5.25546864	0.249808735	0.960487943
1.759123116	1.490437738	12.65195347	4.489783064	0.190513152	1.086582781
33.91836241	137.7290538	2961.016903	75.65669913	75.41990742	298.8646171
9.203427616	19.52582324	836.1670661	23.38934595	8.640267934	49.49717953
6.978168437	4.734274409	34.19657304	8.756831355	0.426252577	2.012110722
1.091341	0.773480528	13.17948491	5.432815918	0.380828246	0.680764838
0.727370015	0.661804203	13.34009941	2.975795022	0.245609736	0.699382634
0.527596467	0.987526817	15.98509088	3.274574387	0.160403552	0.900968423
11.28731766	45.89570124	1710.660056	26.8693566	22.94855933	97.71307842
2.98342375	8.046302138	222.5634766	14.4917493	0.671121764	7.934128423
3.377992467	7.951833746	338.0322295	10.8759295	2.612060722	19.26992346
13.07780678	10.72340247	265.5497623	10.16943562	2.811116591	14.17961376
1.827167493	2.174023393	21.08886233	7.197590561	0.272716526	1.079269708
5.786005178	1.547716922	12.87992606	7.553224632	0.226213347	0.997729876
21.9099209	90.9102404	3058.877277	60.41045973	49.76904437	245.8300365
13.28979256	17.11838234	680.9562975	28.49492491	7.808976387	37.57377152
6.258606681	8.402043058	381.4018069	20.8750862	2.667654343	22.9620155
2.191274385	6.511557765	323.7065113	5.193073363	2.028203807	15.20369501
1.617810151	0.645980381	6.364558108	1.249265256	0.17469019	0.644848671
3.426772241	7.748044496	376.2519128	7.82780685	0.405002194	18.31226281
6.971307368	16.86500731	852.5725336	32.9241858	4.114900772	51.86211474
14.53037986	18.73430992	514.0123139	41.11053873	3.462936129	29.78077246
2.121394851	4.66661653	279.5404848	2.546680276	0.473479537	18.13379424

3.491023023	6.095521519	146.4189865	6.939706857	0.413504196	8.850671344
3.004925294	2.615475145	62.01947374	4.049643211	0.213326648	3.83016829
1.905832668	1.560712303	43.51006345	5.172380603	0.237814642	2.511421886
0.661522465	1.193485664	45.75338827	13.29761903	0.416785199	2.550307319
0.845890726	2.68582991	82.48103786	3.868369178	0.576808977	3.217887905
5.187226999	9.637624587	823.8218377	10.15789304	7.691946033	45.85349568
2.379820796	1.745046796	29.92825861	19.15229376	0.381549287	1.898458011
2.628750989	5.117047786	395.0427214	12.5943913	2.586009156	19.52492905
1.243447584	3.891951562	59.97118236	11.73644695	0.279640683	3.086581542
10.70478463	7.747129812	46.08880348	11.70305292	0.295735745	2.904852967
1.281265725	1.79277406	29.27869499	7.648644182	0.338829588	1.735212546
11.38860354	9.421877249	105.4862684	8.496116547	0.39922388	5.681886493
4.426832711	10.07260743	288.4756845	7.922022364	1.39447147	15.8976491
1.323007473	4.444288102	122.767036	13.18660157	1.617454176	6.947002542
3.225899814	5.123123676	24.21350841	13.91223553	0.271556367	2.535640433
0.945597652	0.965157277	20.75571269	1.606095642	0.128686393	1.791845905
1.093156494	1.557374125	25.89607848	8.964685057	0.194908419	1.558789719
33.76377696	16.12076545	361.2627043	12.35249913	1.824966534	19.43951365
7.301052272	3.917599685	40.99526552	9.119467914	0.356426213	2.531648014
17.21928374	4.349389478	58.57311264	5.481967809	0.441486299	3.328403065
1.928251345	1.469963139	22.20141605	6.442481959	0.175501501	1.463019072
6.944056712	9.76904856	414.9005623	23.48565452	2.122210195	24.61774408
1.979067014	1.542860008	22.43140037	3.799083513	0.062991662	1.347066687
16.41968425	4.83140143	59.91653509	36.86140941	0.20319623	3.841009233
2.763720714	2.219015664	47.24938679	3.775269113	0.15415348	3.242888181
2.435725679	1.166454522	32.97686159	3.449998735	0.178863832	2.008226087
4.323205652	2.575386183	19.65902226	3.887263327	0.253932591	1.295239942
6.769026629	12.38268595	1058.958317	15.02671376	11.5368479	56.1213928
9.706475071	7.450909041	108.0902036	12.85928495	0.876680421	6.174466388
5.183051089	8.867690541	667.1118519	10.11371886	6.285837063	32.01988513
0.969015885	4.906733324	276.885893	4.09893363	1.449203796	15.38604322
2.769189763	1.925093077	42.00477936	3.72671872	0.35204084	2.732614023
8.491023896	2.332526999	55.73306761	9.741038732	0.872941601	3.301973616
2.381652581	2.982022953	42.25281547	2.094107961	0.226307262	3.420168181
37.40323405	24.69737821	138.6671361	8.682586978	0.597770848	7.695935706
1.542743054	1.493096589	30.65213599	3.434450939	0.336097727	2.676735811
8.558540829	4.643255019	44.47968689	10.02272864	0.305083118	2.975898097
3.316688661	3.064388262	35.6418568	6.298830138	0.255563107	2.001742742
3.337840925	4.936144929	150.8195615	15.85386532	0.591981541	7.784719892
1.735436034	2.49016552	51.92969631	1.898270341	0.219381108	4.186178257
2.005757384	2.696080804	100.5003485	3.908538225	0.420168122	7.074825321
8.639142954	14.59541028	757.6747723	37.04445384	3.876718017	44.91844435
4.464914169	9.502181832	537.5343721	22.99577	2.854718354	27.46856298
0.572066606	1.401992224	8.94626306	1.33426604	0.121240461	1.642684286
22.33522586	89.22737999	3344.993134	61.09653089	38.88984846	262.3747275
7.399903147	2.437706272	65.03391707	11.15773324	1.192128862	3.653069743
4.328544378	4.630563117	78.68704231	4.930267533	0.759975688	4.283077701
3.844920896	2.009233058	64.37110152	2.775207699	0.406491684	3.190387969
1.089138553	1.203613159	14.08410535	1.58487631	0.172406304	1.004478424
6.473434333	2.609448267	29.33520002	11.21819315	0.326983374	1.683257331
5.795293123	6.128403819	230.384269	9.188612198	0.726012531	10.47448391
2.905247391	4.207111712	85.68050251	3.447317909	0.291603175	3.767247495

17.54827116	70.93149181	2348.553058	29.02099255	22.46459492	157.5727501
1.423796654	1.811399611	38.69263283	7.261708908	0.17903636	2.230718942
1.614936398	1.708959082	16.08329915	0.974010714	0.10480171	1.810854574
40.62062613	33.49190929	629.8034184	42.72096207	4.280815302	40.51401844
2.036762039	3.999125758	28.86059463	6.960992908	0.161735912	1.546874117
5.789778133	15.63461567	611.4143506	5.833202682	5.474151181	34.01586195
5.897421879	16.90122851	809.3716482	8.386787149	5.159512053	43.58476893
6.332444953	22.56530129	747.3346487	7.196655022	2.995622665	41.09098377
15.74193176	3.097691613	41.85556882	16.07989365	0.549715597	2.34091231
18.94455562	89.84836606	2880.933752	57.32317146	32.66816197	269.6492682
5.000733214	8.167815059	679.7982837	5.962745704	3.141495585	37.53452251
4.287720113	3.632259934	108.9240721	2.664931328	1.061643518	6.494136987
20.56707252	24.88271724	700.2175019	45.07172941	3.035614552	43.9151234
1.960703826	3.467160001	34.5361658	3.262099141	0.212717182	1.581094498
3.455731069	3.548422997	266.313689	5.567994654	1.245625847	13.97675618
10.95489585	7.013683062	85.24602443	5.130465762	0.402494229	4.003218281
2.858771422	5.917551881	39.21228962	2.288498813	0.146657385	2.258440933
3.374634664	5.159342389	14.37552414	5.589674013	0.249513647	1.303202459
1.787127638	7.05560616	286.1065692	5.545297562	1.832244145	13.41255517
3.520094751	2.97942031	35.22382603	5.007494705	0.259369741	2.486691028
4.033895897	5.958452745	48.69423529	31.52504211	0.54092061	2.632209431
1.946535983	2.867411615	49.81215344	6.882774602	1.129954666	2.993651466
3.318268735	3.303148704	10.46345241	1.930067245	0.085252756	0.854530932
15.63652513	25.29533788	476.4250619	16.68267413	2.125672036	30.29506273
1.741429036	5.165388107	77.40227048	3.0013011	0.309936334	3.551611406
20.00069428	14.21352605	46.71183308	12.630257	0.343400798	2.536061767
0.741556035	0.917285854	10.21729346	2.961610432	0.101071915	0.641206543
9.547612418	1.873127457	25.75739847	7.633201979	0.288011339	1.496355382
9.570626497	13.1215831	216.725072	15.21744025	1.359158447	11.59901497
1.569281425	7.682746239	169.6414222	5.931774376	1.102023221	6.817312577
10.11734496	7.583518808	488.8688638	8.671362262	2.071295367	26.01717593
3.922348526	12.85164181	582.8972798	12.40552001	2.881909608	31.25343521
3.798734599	7.207829622	190.7123566	3.86297085	0.368150113	8.334217458
1.604372347	2.228056144	22.60058541	2.572770388	0.149804957	1.357953211
1.160983902	1.045172859	9.458090076	2.078823349	0.117517318	0.624174431
1.545074277	3.137221218	71.82310457	19.00827466	0.800595579	4.048954096
4.614117449	8.535166021	357.5166996	6.481329839	1.443821316	18.5784963
1.780755197	2.180902508	28.89932658	5.788407728	0.40673335	1.649761185
1.313041916	3.062582744	58.11972832	2.962016052	0.544866222	3.131880832
4.671438698	11.62782997	448.1808119	9.15394778	5.700016737	26.23863679
1.464456613	2.818985275	36.9141211	2.879688058	0.262209623	2.040285606
1.469158933	2.207621975	10.23403397	1.425949014	0.064315826	0.7983791
1.08224608	2.607331218	53.65977199	1.871887174	0.362726188	2.647610106
1.076812954	5.958574496	90.46578108	6.247750416	0.496023391	3.895398067
2.375375981	5.969165781	20.49636083	11.95750492	0.138144392	1.272416216
1.77476877	1.738449537	48.17930528	2.978083082	0.44640692	2.729547455
20.03767694	73.58961577	2780.912459	28.6693235	19.71375857	222.3050678
3.625338178	7.924192035	497.8879908	10.94037162	3.974616875	27.43278619
1.239383406	1.343383607	26.87277175	2.29978128	0.131249064	1.512492666
1.080141831	3.593180056	192.5943789	5.59286532	0.542700231	11.21919455
4.451096049	13.05757486	665.3552464	7.767643587	4.02523732	35.9579803
4.565083302	14.77863416	552.5495159	9.987460524	2.568352735	31.91338283

4.45968413	10.6187457	482.7854388	35.42199851	2.664755597	27.67887869
1.033820663	2.914632278	43.1171803	1.950478457	0.135132785	4.122895331
1.172791424	1.17542073	35.19945114	4.742883687	0.190513152	2.155325793
14.87156088	15.54972622	227.6639078	9.302844085	1.210215154	13.27205711
43.09121334	195.5666303	4005.418407	31.80597895	42.45217984	597.6543492
1.601777145	2.635777042	13.55799448	3.811966532	0.135067947	0.986351287
2.331715803	8.644002457	442.1649783	3.017975639	2.499339767	19.96409331
2.697959261	3.893412122	140.7333938	3.906248315	0.339361984	7.843299055
1.088298242	1.396322424	36.58605768	3.485527241	0.352055401	1.894941706
6.663075958	14.85918404	835.064362	7.907067584	1.967004315	39.19295887
2.552985148	3.03724583	66.70707607	6.228152355	0.294935022	3.240955641
14.82920997	18.76260919	224.7327328	15.2897726	1.643192571	13.31577895
13.49164089	3.116683984	34.41745639	5.94081592	0.45189054	1.917543461
12.97930724	10.23225103	391.6094658	18.06251281	2.507148694	21.60627685
4.307458388	3.05480021	143.7301165	2.164464302	0.686686004	7.361895349
1.230017975	0.964088915	25.37521862	3.529737473	0.287761673	1.712033566
0.689883681	1.660870834	50.52946593	2.343341435	0.196622033	2.581029632
1.150720281	4.598983635	229.25929	4.570151857	1.23951276	11.43399683
4.356049241	9.145755771	657.2017935	10.17901495	5.184255006	36.64540155
35.10483256	3.296366963	51.46623083	3.671330196	1.130541979	3.187034319
3.560618583	18.96337738	743.3758601	8.683678017	0.889191881	34.91994825
10.27002062	7.730744374	205.6882063	6.051482338	1.464269185	10.10914808
4.111862645	6.363470638	246.399233	5.382025758	3.274365129	11.97671426
27.73913857	139.7032281	3538.541428	50.54976287	49.03021376	332.4818388
0.777917926	1.575879899	44.26328318	3.956451553	0.308350664	2.134414
4.6244155	13.12069384	514.1921166	7.55721801	3.212843741	26.8357638
2.645608032	4.697971943	306.276864	4.361797266	2.632554439	16.61829275
8.55363864	10.74118709	447.4023115	25.78833804	3.747961504	28.93363275
5.328155468	6.827105212	116.1884007	5.211372541	0.734852571	6.365986866
7.789079666	14.94357698	560.2859455	22.1040413	2.42998192	32.22431653
10.52521335	25.69942976	852.819659	10.47587345	6.700787782	47.67240928
4.514955915	12.416812	379.0479521	6.794552128	2.83742618	18.49977104
1.74112781	3.747815108	247.8372487	9.123975786	1.760216857	13.82877144
32.2803812	87.00337394	2681.377031	47.41315915	29.88376663	233.5128346
5.767729504	3.694402225	40.50388165	5.432005944	0.366277236	1.970685822
3.48726856	14.47222881	665.0976856	8.837636241	2.492359644	37.47503086
21.28215247	1.348813022	24.85780691	4.297454331	0.526102144	1.507223772
1.485414848	2.996038811	294.788607	3.067186358	1.432410157	14.63769173
2.491124148	14.6156945	599.2391711	3.28160449	5.439217733	27.49595468
9.647395765	12.55865648	416.1573712	4.977616768	2.943893771	22.07175618
3.8970647	10.99053475	638.7040088	34.16660321	3.252435419	36.29639414
1.381235623	1.965364312	99.24108254	2.449600824	0.207812019	5.237269202
2.073225458	6.040150539	262.3249019	2.695682961	1.474845893	11.35520691
4.306312227	10.57101135	273.2390581	5.142146185	1.667811901	12.73024178
2.643233628	8.891613755	514.9084782	2.818469331	5.767386283	22.83269496
9.049123559	15.51424453	721.4396468	8.828082361	3.950114988	39.70074048
11.81595453	3.88436287	46.88243426	8.64423763	0.622402197	2.59974776
33.89680432	118.6156171	3434.558648	64.81819478	21.82449675	295.0230623
3.269131736	11.17038541	529.6746509	6.168057032	1.73351363	27.89941581
2.165792436	7.568061966	354.3134116	4.648427617	1.777505538	18.04102413
7.443346555	4.796646941	25.81905792	8.726864643	0.358867417	1.275788768
5.951373067	3.191574989	62.04890354	6.402526932	0.339025377	3.493723972

0.874369984	1.092801542	30.07067587	2.307493127	0.260996068	1.611657157
8.075918213	5.514670894	136.2190223	6.647277028	1.763331487	7.952137088
2.803677284	5.421307661	163.6322127	6.02765055	1.028834473	8.195400158
5.951232407	3.371162427	19.67315502	4.5892238	0.282238854	1.102819125
0.792705949	4.813217538	41.13518009	2.202109626	0.123045819	2.701437241
3.338881266	2.091948515	14.33943794	11.86705702	0.189125827	0.873025311
1.814076464	5.276118038	67.67713976	13.12420629	0.241390297	3.706209492
1.120482205	1.649269843	21.36919121	2.16831096	0.13308166	1.538311978
0.820680115	1.177311589	24.91264319	2.348800748	0.1008497	1.985165524
1.134535428	4.75632835	14.72936704	1.898613575	0.234465825	3.226750415
1.338213828	4.656320766	129.6453836	2.85019131	0.195912496	8.845739809
8.640644739	22.13301279	1152.056143	23.4160201	4.159500305	64.06439216
6.930111308	5.07477004	45.05807116	8.547921163	0.379315353	2.93874629
0.880169319	1.129653822	26.11084683	4.718557931	0.194174081	1.631889316
7.502291499	31.08076729	1413.105649	14.27718463	4.849651341	72.86373139
10.25881838	9.841708864	528.4451064	9.838828481	0.655723451	24.47426975
1.49020394	2.156472156	125.3388604	2.842223071	0.294298984	5.998178508
4.898669064	13.10673463	784.8094663	6.506664107	2.405930503	45.21538831
1.446642272	3.227114512	65.77377408	13.53571303	0.238067099	3.61549056
3.831801862	2.153217641	13.76962699	4.38868417	0.117705929	0.88962503
2.784211345	2.963574992	43.13152002	4.054147035	0.425447556	2.484263744
3.97736422	3.968652838	127.9812821	9.307284203	0.905524494	5.561377782
13.54712219	38.56455851	2286.853968	17.40197821	7.175998713	156.9914933
2.574284568	8.648242906	450.6999084	17.57472472	3.111792203	25.42743986
21.85244462	17.18440762	2265.943319	24.60064899	17.7732053	138.6332739
38.83768649	8.774630277	478.990129	33.21725393	3.878418346	26.1193515
6.075962099	5.249839494	174.6705776	17.0843968	0.928580161	8.349265835
12.32306385	10.02169039	991.5495184	13.09805666	3.840022972	52.01852329
26.56543956	45.97744283	2502.77442	20.25522776	25.4042919	150.0204172
7.861492431	15.83533646	839.9185717	15.5192016	3.528653532	43.60061918
0.777085509	1.510095624	25.03757517	5.033841284	0.229747116	1.320478378
9.699183756	12.77395989	599.0235717	3.418742422	0.510021188	27.34550208
5.520119089	2.708142272	17.53922851	13.46949656	0.276862529	1.117554495
0.864383353	1.066765614	25.40594762	7.701216909	0.38789995	1.589294984
1.025863481	3.544351894	77.61431291	5.284974359	0.153872072	3.952597281
6.275509418	7.804831822	859.7468326	16.32254195	7.086983634	44.95281651
10.21740561	38.35858524	1754.290002	20.6832785	7.502293253	105.1414092
25.49423598	23.7057548	979.7112259	377.9314534	3.211233825	55.83235852
2.504724668	3.526892225	12.01113133	3.962835866	0.177913386	0.96469147
0.848005826	2.74823674	2.518456725	1.645512952	0.105244967	0.842068812
7.942541222	9.075048915	1270.755021	9.109906726	5.049041572	67.09657832
12.96878991	17.90954323	766.4314791	15.62918832	2.361398994	46.93593562
9.097187464	22.55256518	823.5573616	16.74468992	2.027623178	49.96932326
3.220701674	3.027751493	24.40855269	5.12652406	0.246616288	1.406271556
35.06652728	40.63129259	2408.87294	39.62196291	17.65095745	188.4084935
15.68883538	23.675986	1463.430471	30.09415063	5.357877757	89.47667688
2.624724915	3.424045545	66.36717957	13.88448209	0.303012651	3.325504255
8.580620144	11.30211435	1379.553158	11.67371191	3.621187428	77.86549493
0.927431655	2.059325019	82.31466788	7.477878431	0.429550778	4.209513773
3.462738245	1.69122326	22.42200374	4.635819711	0.190652093	2.072506038
6.643810449	7.642895333	898.1899134	9.164129235	2.531421899	45.59428316
7.500822835	8.669918778	527.3840004	15.06450206	3.027037152	28.7512431

0.880787039	0.57501288	10.22685691	7.110065319	0.204290347	0.737192461
22.20297414	38.29231742	2894.015124	30.58414991	26.34260244	166.5316743
27.59054527	28.79576449	1429.849727	23.63717507	12.21786599	87.22295289
1.101262021	1.742508469	35.73375945	2.442651944	0.216385582	1.858729339
8.99441348	18.21158507	465.5216432	15.55347947	5.47077157	31.26908038
17.16646139	11.57312836	289.6035659	8.367839092	1.731672929	21.19284665
46.13038406	15.68178551	233.9330773	12.48407698	2.287772319	19.16096654
6.096696253	3.562417115	20.46753983	7.887624936	0.272608672	1.008344855
35.75477239	16.94593732	189.1645917	24.1589265	1.954893241	14.65774116
3.278520407	3.965769153	8.921527796	2.119005638	0.146947121	1.187557945
49.05231071	10.6081064	134.9242116	12.05474232	1.808336594	10.42952037
3.832344324	7.341880349	163.632997	7.093408903	1.050770347	10.18988545
5.257195199	14.69323065	374.0119837	17.28051583	1.738356776	16.20188207
3.798734599	1.666547848	13.11380471	3.177383157	0.110656195	0.864966553
108.7483688	25.56109985	102.5695826	46.8768507	0.844796378	4.904438857
13.65380993	10.17240617	153.014679	8.997957897	1.518271292	12.17203068
8.18334163	4.778869829	76.14799086	5.495002675	0.543425022	4.257538031
28.35248114	69.25909662	4088.309928	18.83979948	27.99195213	445.5021507
5.618665774	7.513099341	223.6678412	4.587598142	0.506600163	16.21653082
8.034840105	20.41920731	438.0454221	5.511904574	0.30276668	28.63506419
2.631760848	2.431396464	31.23204514	7.523037433	0.205097538	2.513621252
4.767620459	6.986426075	121.2949796	9.92259436	0.617975717	6.852574566
3.548374414	4.048132008	57.42503831	22.92601611	0.606500728	3.423097512
4.145890243	7.434375773	158.5783346	9.040770003	0.37217227	10.19050916
7.036907148	7.548966555	199.6418053	11.42602879	6.024137205	12.0151845
2.844253804	2.886862921	74.03847256	7.494765787	0.695985961	5.296489167
1.889369025	3.619390229	85.973072	2.743765363	0.326293674	6.713836905
3.209140724	3.096950644	70.36237451	5.833833633	0.639857384	4.51735702
2.52906181	7.922684015	264.1534761	5.61167753	3.308201892	17.58411921
3.81155643	4.729376496	219.0789575	8.573682878	3.368544286	15.15695871
1.650007737	2.85076934	29.36235618	2.384748272	0.222111954	1.86864731
0.979823574	1.715749517	61.66468041	2.497748038	0.226822037	4.653845255
3.994556625	3.773932343	177.6748153	6.489336267	1.930418089	11.71376107
28.92407976	41.94496231	1435.143681	30.62788253	16.56484042	109.2895007
4.81208824	2.530422973	11.39011721	7.189722213	0.228061103	0.910155674
1.681523421	1.044777989	8.550140306	3.36743379	0.116867565	0.777311488
8.127575325	9.000170922	307.1560015	12.6719868	1.716549942	21.24301749
2.617150451	8.162520655	421.7241098	10.44802067	1.63216081	25.53944241
1.846565392	1.802051201	11.14992433	3.682765505	0.098505558	0.923492207
1.100931755	1.548470801	17.88905559	3.106401922	0.076541285	1.386298836
4.007637159	1.697391676	6.196352939	2.773328126	0.298189287	0.5570611
27.81769184	121.8393995	2999.281629	73.39088551	33.70184707	415.780782
7.129017579	5.510750336	187.8798845	9.134164993	1.282108566	11.92634148
2.671056848	4.172354224	192.8105255	4.477793925	0.746705297	12.42824961
3.10513623	2.489844032	45.60851225	8.234354293	0.363443317	2.703794062
16.1222648	78.22830718	2437.262064	39.57831084	19.40695981	199.9527653
7.192072184	1.671720482	6.379107493	6.076445939	0.216407891	0.569920247
1.859451474	2.679651313	104.4287407	5.273699451	0.894512776	6.334011155
1.705215385	1.619954927	11.24644167	3.321659392	0.116609006	1.002225904
1.502888962	2.921560041	34.42009245	4.998978722	0.191618504	2.903830777
29.25852181	44.60049818	1132.571329	18.89710493	5.843203033	86.65054489
3.742969758	4.591067327	86.62320782	2.182833127	0.242084288	10.9156543

5.996950576	6.801858957	45.43016962	4.481484683	0.184945814	3.415925729
32.61045289	23.98542577	896.5620762	23.11653131	6.784733299	69.6135502
22.46824335	10.27783895	159.7080237	15.21015037	1.428111037	14.82846398
4.179086531	2.538125428	30.65449427	3.497434442	0.387250787	1.981905994
14.2160142	43.39075079	59.39006419	6.850998034	0.655227971	4.228330658
8.798144578	4.312552473	96.18757234	9.728254542	0.49084314	5.405474276
8.875121739	3.041417425	66.80451842	3.817085059	1.0930076	5.226724692
4.092112902	2.672542438	52.06596086	7.412060758	0.675428278	3.255424349
21.18410481	18.27320686	484.7161525	13.19018599	5.627216428	38.34266588
18.3326181	33.36440186	660.0816521	17.30658567	6.993674808	51.04676349
8.156161315	16.10713445	499.7904656	19.6733994	3.649454699	34.32390644
29.70893024	37.92667354	1624.050196	32.20098437	19.04256896	128.1237284
3.004394818	3.459577666	155.0116907	7.068504982	1.813538839	9.523411744
2.502382464	2.334138752	96.45498998	6.958551433	1.123188863	6.076081694
3.144110624	4.503355127	142.7306445	9.438745755	1.051213024	9.747717697
4.28819076	5.005461302	194.8526754	10.78861003	1.357143292	14.13999669
2.056399553	3.532799016	77.70612988	7.24581213	0.551279688	4.10067101
3.234235423	2.49900454	20.39010131	3.139594859	0.126800014	1.164112199
79.72695291	224.8088091	61.98942547	40.27199603	0.776588741	4.601268831
1.80878773	2.97262159	115.2718012	4.160720104	1.792682515	8.861288712
18.43934711	25.67198708	694.6755152	23.11146049	8.465220619	59.55631656
1.369611389	2.685982363	25.75275443	5.272112823	0.199893751	1.28335013
6.885290847	4.6687147	123.2310836	7.806368517	1.586628389	8.700751976
2.107733958	3.344568142	60.22697535	6.846597433	0.968338442	4.298190471
2.675963011	3.355286028	39.62785577	4.847722337	0.276194351	2.231323381
0.979615026	0.759297893	6.960615064	7.885314	0.192633509	0.527850459
0.943255449	3.848716323	78.86509994	5.402604982	0.246772573	6.103385348
1.519178954	2.084218246	47.14645263	3.658240165	0.428860201	2.867485598
4.254194125	3.564391535	9.746658688	5.492571791	0.171252787	0.816011355
4.897978778	15.65063576	788.0487325	16.75411733	6.326039342	51.58053867
2.00826082	1.020637881	24.94411551	3.28561578	0.192475747	1.580684334
8.521100957	12.36293756	243.9672677	8.135823734	1.725920741	11.85979675
0.139753574	0.068210356	0.120463558	0.753533752	0.028322717	0.009114887
0.181862611	0.304159089	0.459645171	2.149887313	0.035578062	0.061979944
0.078403545	0.047792775	0.05100577	0.347343804	0.050069384	0.027133767
0.058630469	0.038091967	0.093063203	0.002466712	0.038430901	0.007712165
0.01661268	0.010153641	0.108649193	0.149670349	0.0296234	0.017422966
0.001035515	0.020166954	0.043136946	0.201451239	0.03934778	0.033879118
0.073094552	0.014834711	0.067106405	0.187585622	0.043907768	0.029203443
0.100672702	0.028780577	0.098616818	0.187585622	0.009883246	0.008300424
0.072736359	0.012920992	0.047014657	0.249310337	0.022613943	0.012476551
0.039164771	0.035233121	0.074591978	0.187072479	0.02700921	0.031491595
0.048533586	0.01708088	0.111517542	0.199520051	0.000344589	0.024665682
0.227643616	0.018814406	0.108981924	0.219105403	0.020911982	0.010400362
0.134532929	0.000429113	0.09393956	0.341298157	0.042642178	0.01977028
0.080468659	0.028742464	0.083683403	0.087058395	0.013378847	0.007934594
0.040477405	0.017671117	0.055220503	0.263932903	0.016717347	0.018870099
0.096578196	0.030965917	0.09331497	0.286780737	0.025978889	0.021010076
0.133522619	0.020662447	0.168886154	0.161996414	0.04291428	0.02336405
0.134757174	0.021695745	0.035176517	0.663520793	0.034719959	0.000569616
0.001739689	0.000868068	0.066118182	0.135634918	0.000678521	0.01168172
0.083941506	0.014257289	0.021783856	0.004655715	0.000678521	0.000569616

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0.001334131	0.011292188	0.010987313	0.090936837	0.000536154	0.000435002
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0.027880101	0.026922981	0.000373684	0.2379934	0.000474628	0.000395395
0.001194686	0.00060228	0.031993092	0.251489221	0.028726312	0.000395395
0.048407344	0.029503442	0.008358383	0.148920983	0.023883166	0.000395395
0.093612046	0.018545404	0.072244095	0.446114124	0.027733846	0.014690123
0.040661707	0.000598404	0.104581958	0.003187442	0.000485516	0.009246691
0.390446777	0.128986756	0.111939885	1.376118912	0.128229712	0.070354798
0.148747541	0.015244747	0.057268736	0.559338555	0.019883713	0.015348517
0.139342901	0.017140447	0.082479784	0.171530375	0.039365485	0.035350801
0.680194764	0.303489279	0.103367004	2.318572646	0.10885705	0.109145661
0.18849687	0.043292736	0.025742043	0.434635305	0.050957071	0.00648126
0.29673127	0.277895933	0.463416008	1.306270351	0.076491886	0.097664847
0.209206066	0.148961135	0.353662633	0.977925791	0.016197075	0.029203443
0.261674135	0.193308882	0.765427226	1.332249067	0.047813475	0.111208512
0.093233834	0.126184518	0.111716899	0.366919218	0.025258021	0.011386669
0.236654328	0.125081401	0.322993732	0.960145329	0.017145415	0.037277232
0.418727084	0.246337118	0.388927496	1.905838681	0.112611386	0.04984938
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0.250386579	0.223653975	0.25418541	1.717829997	0.036403769	0.024556345
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0.439350903	0.210027938	0.396626437	1.358786703	0.060556186	0.073884613
0.141223829	0.055528375	0.297765137	0.555005503	0.034922274	0.024173054
0.729998418	0.249244915	0.69358438	2.198629325	0.140988357	0.19519076
0.496374004	0.207789873	0.371306956	1.859479244	0.067818054	0.066257139
0.487318794	0.252773004	0.786734333	1.538941057	0.05254773	0.1163831
0.127836238	0.077283231	0.096526756	0.435665986	0.088130369	0.016911871
0.102296013	0.128891527	0.147243072	0.452489259	0.062651528	0.046044274
0.207752424	0.026839031	0.238037648	0.990833987	0.060449653	0.03173362
0.137147029	0.058723174	0.069260963	0.407124558	0.060744644	0.038829833
0.184296769	0.144039065	0.162714921	0.783807153	0.054430815	0.047631104
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0.164863043	0.06435234	0.098430001	0.145580574	0.030818442	0.011013855
0.089912521	0.042040211	0.133953329	0.409054173	0.018511694	0.0356359
0.118013291	0.044553816	0.057701139	0.292026885	0.03105274	0.006208557
0.093233834	0.016975877	0.124024287	0.311735394	0.040903763	0.021989471
0.103746331	0.014401936	0.046305409	0.278230929	0.00961228	0.016071628
0.074685204	0.000387876	0.088784817	0.248115172	0.008514268	0.032993944
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0.128733527	0.060214478	0.222836156	0.402777432	0.064083518	0.026574014
0.17809995	0.000868068	0.031943806	0.381717055	0.000678521	0.000569616
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0.029988138	0.014493073	0.033194586	0.154227647	0.041112458	0.000435002
0.031134298	0.000622572	0.046941946	0.19642152	0.000536154	0.000435002
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0.072013673	0.051695406	0.023369617	0.2379934	0.029533503	0.000395395
0.036090998	0.001118372	0.063931889	0.078742716	0.000474628	0.023535585
0.12333178	0.014020676	0.041255343	0.308171668	0.018636425	0.011127078

0.130988756	0.077001347	0.064077967	0.530351714	0.024431018	0.000401113
0.159021288	0.01341769	0.12646718	0.32111641	0.021953897	0.000401113
0.301102702	0.219032513	0.14621558	1.109636196	0.121394002	0.019172483
0.1628545	0.069272201	0.110240264	0.949313261	0.044834053	0.009759644
0.144985685	0.036097448	0.110523534	0.323187205	0.019541927	0.016230971
0.643973924	0.213523017	0.148068275	2.83763771	0.107266391	0.125764964
0.341529916	0.058728124	0.051706254	1.154295233	0.030914771	0.015058965
0.288219111	0.401681477	2.438762943	1.691154048	0.071547918	0.191412995
0.362388899	0.579800337	14.02965096	1.294906352	0.223624165	0.832805072
0.242303421	0.296197188	2.936191748	1.20420914	0.096895837	0.240999662
0.193728346	0.190835894	1.492308511	0.796463183	0.075197368	0.103185174
0.26380484	0.226818436	4.181019782	1.163866747	0.117250016	0.226606574
0.110219359	0.123856639	0.303911825	0.422460124	0.011022165	0.022572513
0.303971517	0.36702773	1.358411307	1.598372131	0.06464631	0.141248726
0.532788386	0.64258823	6.909905764	3.380843062	0.117323053	0.466495028
0.452517398	0.423294205	4.397251482	1.670766468	0.143951845	0.319795043

Indene ng	Butylbenzene ng	1-Undecene ng	Undecane ng	Nonanal ng	1,2,4,5-Tetramethylbenzene ng
21.43235785	73.42709427	77.91469706	49.15774089	175.483216	445.2947341
5.569577279	9.595754052	27.73102709	10.47675999	78.09463806	68.39241452
1.617913057	2.340987113	13.57105729	5.633808086	103.4982346	21.10889741
1.11889769	2.824951639	10.03305187	2.529886127	36.56526465	22.68329166
0.416370286	2.573054695	11.37798613	1.21062094	11.64157042	4.250113858
3.759229144	15.30049878	17.23066837	14.21644304	37.60737649	57.90711258
0.737160451	31.21950486	49.16215441	5.50825572	92.0187373	17.92916942
1.156390878	3.374552164	10.06554865	5.131631109	54.59491663	9.267659211
3.447556383	14.91074826	12.18444158	6.995389761	63.62981857	50.05157607
0.593934063	39.84863642	116.7963705	10.33177031	42.69210975	18.37861069
6.675404755	18.73517327	20.83257098	16.584001	66.26754583	114.8809606
18.45990843	57.04303462	61.7755236	53.81339704	184.0933686	330.4043225
2.211179811	3.399206744	6.293851864	2.989763673	15.83166404	22.88951734
2.939263739	8.887801039	20.01348974	9.402449761	33.92299787	58.24288827
6.947980315	22.75514463	29.64678248	22.51894893	323.4898661	106.6071455
7.368345376	33.26463382	47.20819232	17.92063746	47.6636276	110.1298932
1.301034425	2.104746823	13.70451115	4.094992243	26.3458924	12.46801118
0.734633604	5.860887802	32.59696469	9.281992451	214.0137839	19.57828589
5.823038957	19.625967	40.53982253	32.52369657	60.38270051	105.0233051
1.195758821	2.105302778	193.1307565	2.314877307	17.49370997	17.4494343
0.533953472	0.707853325	4.908608282	1.981752379	19.64799819	3.039691429
0.664427885	0.950750256	3.128053833	1.395796747	27.03163467	6.64265894
1.077292159	0.930165663	1.980790709	1.588793213	24.43072623	4.788930971
0.560601773	0.431445837	1.4362809	1.379528626	13.86718478	2.32154295
2.044022501	2.510846138	5.390139813	1.141759633	10.04333109	13.90796702
0.520019993	0.543506804	3.809249021	1.035396902	10.78618468	1.851121243
16.90125364	59.46827424	64.93363113	40.6169076	145.5697368	367.6153463
12.1750565	44.55852834	52.14369822	30.06085184	112.4620247	285.3360424
2.082842651	6.318858534	6.184769726	3.40342039	22.30541203	33.54226163
3.296589796	1.49622125	2.579847249	1.109110725	24.99046634	8.869320534
2.744363664	4.055846106	8.298055574	4.517710534	25.19625492	28.66259247
24.25071519	83.97817455	93.6522226	62.03758132	228.9148432	498.5681472
2.484423006	31.06761938	50.51616398	7.430530139	33.63304516	36.12834384
0.263873474	0.327977029	1.060371761	0.496376839	5.808526095	0.894846934
24.10785226	82.1917187	92.23186896	61.05102757	208.4526493	575.9204658
0.607747701	2.334832105	18.19120398	1.46466901	9.587029405	3.91810556
4.233872976	13.70011675	14.38341758	8.913029753	37.39148884	83.04071097
1.179652001	1.853467099	4.565285179	2.248373893	22.33765447	13.8021467
1.765376306	2.684430529	3.530469168	2.435598141	21.63374411	18.80868267
8.761956773	26.83007283	25.66543605	24.29864386	267.3513461	146.7024723
0.427274702	1.062200437	1.169742559	0.901414087	7.767074625	2.012176381
1.480315357	2.617949881	5.378593502	1.374109215	11.7614029	16.16924269
1.363227456	6.465494234	5.441967368	4.546106292	37.73582338	27.4506739
0.874250613	1.513313231	9.106385117	4.584240033	48.08525771	9.311300196
1.703702571	3.744093208	12.18072176	8.920127584	390.4188838	23.12009299
1.241458222	2.5982495	3.364972377	2.107962997	18.41822233	21.79698341
3.120527195	9.49767659	29.42788685	6.263899142	156.3826902	57.25810608
1.650236835	2.823350682	4.974808639	2.348117329	17.30077274	21.35863999
1.477651952	6.146663016	27.92753693	2.645027015	14.35310022	24.89149002
0.392957282	2.072074568	2.377769925	0.773898632	14.81666142	3.0041959

0.324231539	0.579983989	2.089002164	0.909811109	7.181683108	3.599947393
1.266067287	1.851533643	3.179354259	0.97544235	9.938494023	13.04292754
0.515872787	1.787574892	2.711196193	1.40760582	19.62543702	11.32582383
1.333058651	2.754379016	12.04150047	4.40527292	41.55523646	12.25426602
1.004463122	1.358758642	2.115379304	0.681491519	5.93253103	7.181143507
0.747167157	1.304384078	2.554545124	1.529538256	76.62628551	7.753871533
15.27158532	44.13752993	47.99222249	24.89670667	77.92651373	290.248367
1.673107453	11.00073655	3.989826519	3.303158392	92.67945377	27.38835243
2.832061852	12.05561702	13.43270769	6.382611058	51.83952159	70.0261468
4.300578937	8.720469222	8.621927121	2.17451211	21.85363581	63.06263949
0.349734896	0.670789195	1.584611406	0.703117635	6.339713913	2.352640252
3.348367798	1.382717977	4.013206186	2.259060217	35.27250616	3.138648271
1.124660007	0.530163818	1.768781851	1.927704346	43.4264084	1.25368616
3.780926674	3.147202572	5.800975638	5.517205153	49.92645398	13.71440926
0.47617889	0.435627168	5.982122447	2.306693374	20.51675219	1.112740303
1.770390732	5.881649746	4.838884808	8.200478602	255.6682529	22.33328618
0.141801035	0.200152094	0.98575217	0.577310861	5.943039165	0.43735652
0.98778125	1.426341538	1.860909341	1.747604928	16.20609216	6.120711069
45.32147934	115.6414026	124.451251	72.8261658	297.3246405	689.2332846
0.162006821	0.264716888	1.306969628	0.673629869	10.24243992	0.514894015
31.75398386	102.321045	96.671902	41.57135501	118.2380465	579.7825804
0.340696439	0.482427478	1.001479793	0.935694583	12.84762975	1.275259288
0.173846745	0.46387666	4.342651716	1.783193396	49.73055167	1.045447373
0.267505105	0.24828511	1.03680354	0.752955323	35.44312768	0.788458227
1.681175629	5.589358158	9.597810406	3.275144577	28.38725648	24.95750227
8.981376274	14.88170665	25.50752005	8.746641537	58.09251122	49.74641711
1.969946891	1.034613413	4.901950734	1.801244968	26.59097876	6.833528373
2.197923759	1.987603831	3.541336924	3.01681142	22.07907769	9.996111332
4.305945788	10.33656229	12.10220094	4.267397392	56.6727921	60.06744191
0.63478478	0.647826368	2.644995676	1.342878361	20.65325166	3.741040133
2.525495412	0.84310832	0.941168597	0.937668967	13.96850377	3.142596352
57.66732368	192.1681265	200.7318886	114.6114547	377.19833	999.7974213
9.199409301	25.70460586	25.83170771	9.397328089	65.64118813	168.2942491
1.965924381	1.930074097	33.93885024	3.839924204	26.91936744	7.929089895
0.254500981	0.58141759	1.69302887	1.332823942	23.11115623	3.286021721
0.533105426	0.619799683	1.342545996	1.976889677	11.08433988	3.376358033
0.481795774	0.772353889	1.739693728	0.651012958	12.24958751	3.016375616
21.16840798	63.85381032	66.84015006	36.2360942	147.177502	344.4911413
2.839031001	10.85191039	13.87585641	4.466845899	58.5872677	86.62275541
4.450551991	8.728878529	11.50478151	4.478892786	32.95327384	54.48579056
2.963621921	6.781271307	9.255997008	4.759317549	38.84609033	35.0973626
0.730095387	0.950115446	5.748172425	3.892255535	37.85833095	7.728206005
0.469954128	1.230995096	3.143464805	1.876562357	31.8386208	2.924181599
42.53010835	158.2176035	147.5059396	99.96581412	362.7614233	762.3616911
8.50140807	24.37158217	27.90249732	13.00932873	73.19007823	136.0324317
3.95359012	9.656508327	8.181378892	5.385298294	43.06438806	42.75253344
6.147179873	8.778232357	11.39505747	10.40087178	24.54497035	70.89707602
0.208507896	0.820225719	3.676018783	1.211136988	10.03082257	2.235470194
4.840600072	10.34163122	13.84811278	7.674008063	135.8752611	73.91659263
7.265448279	21.62477267	20.45117449	9.366680811	108.1413769	111.8847648
3.74746828	10.86456596	12.76637453	5.016788012	66.28037336	52.29103677
7.213587691	11.25781148	11.45878566	3.951519007	17.7922232	101.5805056

3.930468387	4.361669324	8.787964777	3.690686975	28.93147363	38.88839158
1.388188902	1.825620859	3.849541058	1.431680543	9.301659374	12.02391836
0.731322589	1.69920637	3.481172759	1.503311646	11.08400046	10.51883483
1.26419791	1.530221991	2.626898113	0.716826799	18.69774491	11.83820639
2.452744888	2.610210313	3.130216633	1.249427517	7.942811994	13.76086471
6.4316862	23.02424316	21.16495832	7.296416875	26.04378735	114.5657736
0.914293623	0.906095189	2.830869548	1.132278362	23.27524062	5.064418612
2.970409616	11.28702218	13.07218081	7.411816402	56.31570309	75.64585716
1.291197772	2.619831716	4.794145629	2.866598951	107.3000387	22.15977638
0.921283761	2.362071095	4.184591744	3.023789909	27.36680416	15.98903013
1.094885753	1.212669525	5.708407551	2.879447624	38.01613986	10.27890405
3.178945629	10.62783079	11.87828762	3.169909808	44.16377322	32.63953547
2.614390835	6.722045564	6.833489612	2.806920958	22.32808724	36.74963334
3.972537259	5.402104968	12.52085134	13.24951518	57.28407235	53.4951795
4.235046815	1.580994586	9.258866948	7.823045997	36.9723572	8.832740705
0.583465012	0.952585863	5.671720269	0.924197636	10.38731531	6.784101556
0.97644374	0.8372755	2.000615066	1.605510205	25.15612151	5.959685937
2.624210807	9.174842894	10.61697704	5.096268865	27.76789989	46.62771839
2.159049046	1.775480312	6.166582728	3.28461514	25.57503995	13.53176077
1.554493169	5.912897467	1061.628263	8.300433117	20.14838212	23.55166216
0.669299161	0.974322011	3.245650516	3.266842079	31.1399133	7.015135112
7.659992343	11.96001666	14.8496503	6.445881759	57.31379955	76.13594688
0.715544699	1.117811491	1.671727828	1.068285163	11.72799766	7.534235058
1.304767262	3.194471753	37.52998945	6.263839907	51.84708646	22.93899827
1.648072376	5.973705509	4.735781635	2.637057586	15.03998327	25.4787195
0.774943173	1.396609546	3.432598524	1.002356848	7.324243479	7.618475553
0.689333578	1.260367664	7.558366828	1.306766559	9.404578241	7.527848062
12.55870144	31.02817092	26.11996292	11.00126021	41.78974122	142.9905978
1.429819987	5.400923154	7.168759392	3.335076901	32.83642296	25.54624118
4.637246315	16.05962244	13.79041795	6.42277319	37.0168285	81.91242128
2.622750481	8.27767399	8.290849794	2.883358375	14.64167658	58.65456624
1.026615307	3.064065984	16.55699675	3.243858565	10.77292879	14.95269444
1.349297662	2.791310206	9.351808007	4.451925275	30.433145	19.28962489
1.123437611	1.971339461	6.182054851	2.948328803	10.08492829	15.37550282
4.473108451	33.77326505	29.96059265	4.210587949	55.26328666	54.21554142
1.206866143	1.87629455	10.67181206	3.835489978	14.50632428	16.71032815
1.392823665	3.104447734	14.31506704	2.212056886	20.40163414	15.13652113
0.911888713	1.40081564	7.096048079	3.369244224	98.06076289	8.96887019
2.425161515	4.637853726	6.7497363	2.220633645	27.96676518	33.65584621
1.273339375	2.251637855	3.303624537	0.76323883	7.768025387	15.61745281
2.308221201	3.713113654	8.6890871	1.720622304	16.19606922	33.11605176
6.388612398	19.776537	19.56450795	6.724066903	69.23749386	107.0991285
4.04212841	21.45426203	14.81478996	5.877531511	280.4836567	100.128885
0.749720382	1.125001543	4.582278625	1.722558603	7.768919351	9.360749355
38.83166136	172.9582765	149.0203316	85.01568013	261.3156498	740.0220441
1.636647007	3.057544291	12.03923583	4.191106036	34.04516383	17.21945251
1.440783551	3.38520777	2.883308602	2.299075473	17.19955283	19.30754778
1.702746302	3.395322874	14.05812373	1.7589525	13.9206313	23.29164466
0.699943314	0.891167135	3.005193351	1.587401545	5.708254188	6.547740258
1.078235284	1.507100216	6.110422772	1.59812348	24.56034502	7.992076297
2.125092089	17.13414974	13.80027611	3.96314686	22.88536423	40.45157274
1.599307126	2.865007823	27.54395513	37.6973094	73.81562912	20.80036015

27.48112747	110.9304097	109.5948033	92.69387261	323.3068501	674.0871114
0.630925372	1.426077909	3.626131322	4.48356681	19.05242285	7.468574928
1.307778085	2.241438433	6.762370435	5.242252614	10.05773999	24.67305783
6.167519257	25.14711018	48.10709587	13.96145098	149.9531551	117.4654307
0.601666609	1.641181933	8.462235352	11.85355589	157.1822935	6.871219014
7.149850253	17.20063461	58.50932976	13.9709173	20.30606822	91.50567988
5.569597729	20.98565842	20.46313255	11.00359663	27.35804646	100.7917173
6.810940941	24.15517749	26.3389983	11.21254643	29.40998963	136.2369527
1.367916825	3.768552325	25.49096287	7.331994504	46.36114708	14.08454972
41.91815617	151.166945	163.441638	105.0092181	277.9280529	973.0705738
5.408953291	15.40227551	17.42653108	8.098354992	25.79905929	86.28910305
1.916910673	17.2428925	102.5397331	6.256701205	11.11193039	23.21682381
7.035380242	19.67492198	21.49037543	14.69360143	357.8995611	120.0921742
0.550120803	1.296717255	9.65988611	13.55733315	40.63827333	9.267564394
1.743231664	5.977087529	6.345236712	3.072418455	22.74230513	28.24194608
1.722720492	23.44705377	16.64312204	8.686802959	17.48401764	11.07639267
1.988033825	3.380042212	13.67342091	11.56594888	16.57944686	40.66508389
0.699292958	0.911318422	8.985720131	6.923605073	92.56464534	4.711896994
1.907786191	6.492454699	6.46178027	3.452549125	15.16784234	31.54337602
0.900166782	2.410509399	7.253097127	2.594294087	17.27350529	10.21076733
0.893201671	2.282504146	20.42350881	16.24369464	280.8112042	9.888554836
0.772473078	1.651440195	2.536967802	2.215343782	15.24544943	8.193386145
0.425378374	0.656233446	3.361049347	1.509567562	7.641095909	3.432818229
4.714423591	19.13974032	24.25015832	15.91138875	231.3818852	87.94209695
1.620325053	2.53170784	8.343348313	7.317942538	10.26568823	15.93744657
0.930994501	1.770513642	10.29320074	9.055371382	63.89661304	8.068629109
0.326538113	0.83914442	5.177385843	4.655580465	8.435380393	3.225795472
0.77158341	1.476972662	14.00494071	3.37794115	63.13640582	9.693402943
1.916176942	5.353787962	5.64384951	7.155231385	44.36311923	25.33686806
3.229483832	4.825720877	7.405560672	4.889026888	15.33502286	42.99861909
3.904225223	12.05486921	11.33954414	7.031821598	178.3012141	65.5979959
5.129327967	12.8988425	14.0317484	15.44425537	188.5170324	78.14632985
2.82884174	5.899478613	7.126600378	4.913998328	58.01668763	35.8029917
0.718601816	2.816220016	3.221803456	2.902003974	23.02314359	4.362540319
0.439456001	0.640841391	3.258147433	1.000025992	6.559833607	5.285926721
0.755601851	2.242723565	2.361159588	2.778927608	62.35920054	10.29225328
2.648120893	52.15724877	7.429407059	8.634671436	15.75134791	32.45723913
0.977991248	2.259812878	31.23215179	29.16568381	54.37786607	9.99238592
1.219485399	2.033237125	5.708137604	5.105130716	76.21812418	13.03676853
6.152090862	14.4608699	13.15667929	7.906743686	29.19702857	82.67238019
0.687036897	1.943177919	5.027924779	3.205745844	26.92605696	11.09486075
0.541708283	0.842842604	6.454540912	5.436975403	7.624259631	8.382222146
1.126646901	2.010861982	3.407315783	2.942383375	6.557203424	14.56899811
0.730862186	2.998746593	3.524619091	8.355701351	52.2890151	20.12069683
0.751582937	0.936280233	3.620301881	2.76745792	22.10381201	6.870993085
1.185727246	2.724211316	12.27585548	3.873134044	39.82155549	15.46894189
40.59087167	132.8621458	119.8255393	47.556229	121.9237348	751.2015393
4.307473783	12.17672325	11.59230621	6.504755619	30.24975813	62.06841922
0.532409109	0.882134946	6.88919832	2.382958107	9.834184693	5.213785653
3.463714893	6.002870128	9.598349487	6.750670471	95.90452123	57.4103982
4.948460764	17.71857804	16.46798428	9.80854047	21.88639513	97.36110792
4.853242099	14.82908879	15.76637964	5.752659471	30.19079967	86.36665819

4.661997831	11.3332106	12.75112225	5.349866672	33.09527735	55.8839019
1.500684356	2.352013965	4.491428855	2.133923165	14.95292407	21.24858342
0.720913424	1.292459793	2.492207613	2.471043225	13.89470352	12.75158851
1.954183422	5.453055108	5.545009064	3.400901852	22.53433632	29.88970536
148.5747888	450.568106	437.1010832	108.2843073	116.1080514	2401.778718
0.554382864	2.386907418	1.814841333	0.8335269	11.78096197	3.041275868
4.091812869	10.4360686	10.70033945	3.76619416	7.092139877	63.18561638
2.419556766	4.729546717	8.273144567	2.147820111	13.03051832	44.01652528
0.641007773	1.031192841	2.69081446	1.206155095	9.616848942	6.814962256
11.09902819	27.64280446	28.96966175	5.91983435	82.5967423	166.2078844
1.36787882	1.694394223	2.679491276	1.572246611	12.94093976	10.13603236
2.046247572	37.40575875	6.436367139	6.751248922	42.11461798	25.57172523
0.866263078	1.571253104	13.86180301	3.524663137	36.72405052	9.559951259
4.042018797	9.840523462	8.995643812	7.442132769	44.74242844	52.52826498
3.237206775	4.795698111	13.54378638	4.09952069	7.119695921	33.13039916
0.651646538	0.926097234	2.589880305	1.160363681	5.742876424	7.631520795
1.065064577	1.540037814	2.1896345	0.813557563	6.196068383	15.90962352
2.123843069	6.053686458	5.764428108	2.231183798	19.48439526	29.42009113
4.966520636	15.80860523	20.53171297	9.385511269	40.35982538	75.4157613
0.802382146	8.55155411	17.37996326	6.254240166	14.05809097	10.92321021
10.22016927	24.19930858	21.51736163	5.603465347	21.79103558	220.4099247
1.320390419	4.973199747	4.965959221	3.170046171	36.63687186	18.92362249
2.729887587	7.349418621	10.38231228	3.480389919	13.11609446	40.76503559
53.15320498	258.6729406	244.9754636	109.8650096	235.8130655	1276.583455
0.769220545	1.454976372	5.319444561	2.236175181	19.61335301	10.94270739
3.921074522	14.96735213	13.75943517	6.325410446	22.29643143	90.5453068
1.95453607	9.600999759	8.577658278	5.455210812	34.02528667	34.70859199
3.736812706	15.70942113	13.84280915	7.414141823	183.9993816	67.46556596
2.696594025	8.184656033	45.57945037	5.332555422	28.37604272	21.70887115
4.748329934	14.45174084	13.84514092	5.96787479	95.24245777	87.09539521
7.034639423	22.14169933	19.80429489	9.343282273	30.24975813	101.1500072
4.000346769	8.914446454	10.72414336	9.915267768	24.714111	46.90577162
1.92991342	6.766787247	6.070683109	3.275566763	86.04688533	36.3867731
35.92088687	148.8704312	144.9543199	98.14409962	231.7968249	750.3509526
0.588479357	1.583540837	3.901385038	1.853203592	7.538750522	6.176218658
5.54871989	16.71397332	17.28357972	7.497235672	89.61163519	103.3778728
1.089849975	1.843155826	14.88329794	4.277252833	49.01937013	9.74876718
2.516769074	6.317689536	5.901801966	1.876535249	7.278168636	37.79215681
5.378036723	14.33876758	14.89521237	7.667734691	14.04253953	76.88441728
3.112750416	10.41931297	10.6953751	7.284290904	12.43904011	46.96927483
5.47624479	16.93452708	17.8857348	6.368818863	130.1450284	102.5917177
1.845023962	2.844934877	4.595374144	1.73086396	32.86369528	19.24637136
5.112679285	6.702964547	8.712484137	4.175712791	4.428555701	44.51718233
5.065105594	7.544782666	9.086505705	6.043488522	13.98373379	50.08089862
5.596362822	13.41089744	16.75928784	48.62619356	4.386116549	78.16601847
6.29183422	17.69381173	19.66855107	7.261237227	27.21214257	100.8680574
1.052426666	1.67666637	3.16870422	2.190888138	10.22164289	10.46246375
66.9548184	182.5851379	202.1614665	116.8817639	555.2368117	1334.966147
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3.224694652	9.454343726	9.698300213	3.641817468	11.9995486	54.15315749
0.729943258	0.91272629	1.477292545	1.766877409	13.77143727	6.023938707
1.449648231	2.888150281	4.070595836	3.322960241	17.62037298	14.49417619

0.776220735	1.021753215	3.303659573	2.113320815	29.91326665	7.396265335
1.741462626	6.784061874	11.62866497	25.4223014	17.34238139	45.03287007
1.365448636	4.370206316	4.506850771	2.40939973	128.8114301	29.62633232
0.284539682	1.516919676	9.156495899	1.393909332	9.597620937	4.182636871
1.072036053	1.570691763	5.915935641	11.74227723	79.98426601	8.56478177
0.380526397	0.962440271	3.800309769	2.208638718	33.17707836	2.723153869
1.171416656	1.74236763	3.291756876	3.282570667	83.80354616	10.77270031
0.590189494	0.990499193	2.701046452	1.121215853	13.83091008	7.010714984
0.677069801	1.071709993	2.190681874	0.883783643	8.179562032	7.566377388
1.589447518	2.465305275	6.97285663	15.09603791	175.2820935	14.26413788
2.140935284	4.052916005	5.78455534	2.102376466	36.43490079	32.47468067
8.432803679	28.0638061	25.97919725	12.52699666	247.5669832	148.9093773
1.152936136	2.539329942	88.29685314	10.95067842	199.3729053	13.3005166
0.804778981	1.120410859	3.912621138	2.600055975	26.67756389	15.91633983
12.66716185	40.12125284	41.78726585	15.83320089	257.8079271	228.2402845
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1.38075945	2.281140315	11.478749	2.29532776	8.678520095	10.82871443
5.669410538	18.26562584	18.98781976	7.395130124	23.64869946	112.9801989
1.429225022	2.925279825	5.155887488	4.105849397	107.2627988	31.03602172
0.310211135	0.617529922	2.662233294	2.010519988	61.55968593	3.683248395
0.623193588	2.989995564	3.611235295	3.283117487	14.03114744	4.451456337
2.145832898	3.367281649	6.739240118	4.44654479	93.42895419	19.19472035
24.20709412	59.71352494	47.41171859	16.08951748	68.27922543	318.591503
4.044205302	12.16600633	9.368296899	7.316177872	38.19232108	55.69635988
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2.758211009	11.92412431	10.46635146	7.4001539	196.4271853	38.45364141
2.747901566	4.512245309	17.67832439	7.639547034	76.82323567	17.60844994
7.175070626	32.30679155	19.91291177	17.31619305	38.77876092	95.63223658
16.71348296	80.30866659	67.91169931	18.16147474	152.3950465	354.1602968
5.753865075	18.60628172	18.16743961	9.643045961	43.62807405	84.60082307
0.511107976	1.013073129	2.910424242	2.330357704	67.27909069	9.645594699
3.560978423	10.53663632	29.82164836	3.982745196	12.25665378	57.41810067
0.498842957	1.639970762	12.78884626	3.148933959	69.726166	5.122529616
0.870289917	1.824553269	3.50138129	5.738918062	181.3442121	6.218736458
1.063397752	2.0849551	3.095652215	1.437446866	24.9321719	11.46096386
6.276142659	19.4728179	17.02134317	5.803587006	50.66829895	68.37643967
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6.226650301	21.62320229	35.87826376	9.846260197	461.4632066	85.56667468
0.535855679	1.508498469	2.717471978	1.567790478	22.75323537	4.277008382
0.740817891	0.798689153	6.586856753	14.82256989	81.59330006	5.826542142
7.749879962	25.91884982	21.63615891	5.065621587	65.14334915	88.10223463
6.206409266	19.80454627	21.45779075	7.220080818	34.49671381	100.2267496
6.30017462	19.44780808	23.80276474	8.739435732	130.9324786	100.7618248
0.610322422	1.310179073	4.317120725	1.792909087	36.49879707	5.525858483
19.5023534	83.04816883	66.0329473	24.20614452	62.23768357	390.7450855
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9.823739466	30.39141546	27.06963134	12.10524166	55.04770413	141.5402909
1.947475187	3.059715097	5.805381766	4.074733254	95.651925	29.09177004
1.267856147	2.591359956	6.936107554	0.952571135	16.26505987	34.82080822
7.745173934	22.02902031	20.19589462	5.083684599	26.79657917	108.1351377
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0.358602495	0.671383527	1.877076295	1.668049141	36.37349495	3.451829092
15.19434392	69.68325432	48.45587702	14.32565646	218.297339	235.9008649
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0.726319464	2.297831033	2.798392992	1.789107728	35.37069654	7.648189252
4.785391034	16.5555454	16.21189386	7.024133235	35.90670669	89.01420904
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2.79842583	13.30480978	41.81027762	9.190752808	71.02897586	50.34167356
0.410169502	0.785819381	2.612791799	1.62498005	37.71568586	4.206741379
2.685659792	13.1035382	22.58053747	8.81448752	68.40729575	39.46211587
0.481927817	0.80557801	8.229530624	4.114414107	13.38212742	4.750325324
1.823805421	17.5631059	45.41998462	12.57507026	31.06001891	33.05829843
2.201386639	4.868224051	5.856776931	5.759878459	30.892967	28.92799019
5.533226885	11.56773978	15.61364596	16.73842762	92.89288804	112.2799195
0.417504823	0.729473472	5.094245167	1.842863294	6.165894309	3.426478745
0.630065397	52.61517316	49.07191147	26.19330934	91.6641327	13.25892783
1.532671735	114.1972738	19.14903038	7.080783071	114.6668134	33.93940886
0.924779661	3.774070942	3.775041884	46.87649896	67.28264396	27.77104405
85.79635003	364.5373709	352.915713	524.5447133	123.7144291	2087.343065
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14.82388826	29.03852458	149.0100159	173.5670856	170.8636424	398.3613711
0.906650242	2.002361915	17.17643698	20.62209883	43.40740685	16.19703309
2.46408633	5.519498507	45.96958957	172.7365173	99.39540096	48.86095561
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3.443474727	12.41423605	13.66706253	24.67732101	317.6545355	50.56196391
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3.394082679	8.79555944	10.11522401	10.29540263	52.54639219	47.66038838
0.963108884	1.642373403	5.712523491	4.645091161	13.99302	12.37940245
1.404672998	2.69379652	6.994951101	5.059418244	63.19179426	13.22866211
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19.57905406	60.64356293	61.18172471	73.42016849	200.8909275	341.3513617
0.235978061	1.7784542	13.03477155	2.317588336	26.60136459	4.517376969
0.194722194	0.704497532	4.181388982	0.879842484	17.10426535	2.674743128
2.629590393	8.624987447	10.04912312	5.091890683	135.4136968	48.47873094
3.546002799	9.922789878	10.33656983	5.178780768	31.47167182	55.7361885
0.383075449	0.617423057	51.43910374	119.0327456	19.66363163	3.427712357
0.592741418	0.704614372	1.946303699	1.328874578	12.50010827	2.985094098
0.38416678	1.801535444	23.1892737	2.939837166	29.4163336	1.891572118
64.25169219	207.5237412	236.8515739	173.8541068	511.8256852	1437.384348
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0.481741778	1.163944253	3.049237656	2.013156949	100.7142441	4.96652482
33.62378368	114.9456846	111.4236389	77.68516765	276.5758865	675.6758616
0.248230014	1.844481549	12.22660878	2.013338976	27.24030477	1.350725128
0.984040352	2.915279678	2.753507152	2.022382821	15.85178227	15.53854681
0.436678215	1.716820153	5.754611773	2.231712722	74.49662833	3.044736075
1.109375807	1.810019214	10.237883	12.87710623	131.4504483	13.48144568
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1.234394869	2.715443514	16.67799637	21.40803008	45.43993293	12.6910686
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2.687236822	16.2358282	77.74994187	39.93221257	144.3115267	50.10627837
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0.975064747	3.101579387	5.684471358	18.3164167	29.66646886	13.25892783
0.996415496	2.954260529	14.09742912	26.64055274	170.805407	16.12965589
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5.346816044	15.95818924	19.23938521	19.63046085	335.3409185	104.5813707
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1.246767916	4.90073193	3.449581165	5.113108029	20.80190669	17.00770699
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0.629333692	0.914223453	3.893440156	3.05677277	25.5175337	5.07932139
1.113723022	11.24794565	104.6651129	80.92831981	123.5883029	16.71354641
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9.965247533	28.62831702	30.32353252	77.55501605	273.1237813	168.5554432
0.576659389	1.131613081	5.066996965	6.249189261	96.42495615	5.661003469
1.539652585	5.532910992	8.927529985	23.53792662	105.2541184	39.52707276
1.09827245	2.784088954	7.036172169	6.212631934	59.44449988	19.07927672
0.878784594	1.547902176	5.754699961	8.722262181	22.29701968	13.86225782
0.338659331	0.64858876	2.392731971	1.0627222	17.91287636	1.709049695
1.788492185	2.76861191	4.351811879	3.097123336	29.47281078	19.79095026
1.601251738	1.950049699	3.773293502	1.153654081	13.24681767	12.68071931
0.42259233	0.72364565	7.327562327	3.71347064	48.37911164	3.038765004
6.377630771	28.65947993	28.09551188	10.09675785	69.81363996	121.3498221
0.59596005	2.23742491	3.792959083	4.047308857	6.315487447	8.044981912
2.633127313	12.10404604	17.91206754	17.06683948	46.68076542	55.53444045
0.010676321	0.056648177	0.50763523	0.292378302	1.703484047	0.054565672
0.053087	0.199024881	0.833447193	0.490141483	4.695936589	0.094873057
0.03571854	0.079255417	0.535361846	0.03170944	0.218287085	0.042970992
0.022064451	0.054789756	0.365142177	0.033842577	0.063786369	0.012696524
0.012032875	0.050671774	0.148286982	0.046996924	0.155988409	0.014729884
0.010751585	0.067645801	0.290087158	0.051047176	0.061119123	0.021733649
0.026948333	0.045536424	0.263250594	0.000463425	0.222841325	0.027532853
0.014113174	0.050364908	0.291428986	0.027700829	0.213939186	0.042661209
0.018339545	0.060613094	0.288840539	0.047887551	0.071541213	0.022683085
0.009732208	0.039525207	0.124585273	0.010167824	0.010249479	0.037028545
0.009463229	0.041319921	0.200846647	0.017577056	0.08404973	0.052046447
0.019760516	0.036517354	0.314822029	0.024381299	0.075415143	0.033303879
0.046398401	0.080811079	0.151898584	0.033042388	0.121771264	0.009932263
0.008039846	0.074948674	0.28560817	0.024714418	0.154345835	0.001617361
0.010257751	0.027702324	0.289111635	0.03151159	0.056144164	0.018728626
0.016990692	0.076995062	0.387405699	0.032410287	0.131468693	0.00938349
0.013275966	0.094530029	0.194789048	0.020727234	0.156576869	0.02145429
0.000643085	0.082324902	0.514498342	0.016190347	0.235310767	0.000538442
0.000643085	0.040327981	0.088746593	0.000797102	0.111837619	0.014483068
0.000643085	0.000518399	0.14309788	0.014182533	0.056153651	0.000538442

0.030152811	0.056771381	0.245979973	0.014340323	0.002177381	0.008507244
0.000480448	0.017741786	0.267854132	0.027525129	0.045943828	0.013077817
0.016739277	0.001062472	0.380590185	0.009593792	0.058709042	0.017999973
0.009944615	0.028800935	0.221244689	0.00055521	0.002001547	0.026997169
0.000432438	0.000354828	0.077322539	0.00055521	0.002001547	0.025729652
0.015798263	0.050958955	0.10785148	0.065352989	0.002001547	0.018441427
0.009271871	0.033319582	0.186633478	0.082234358	0.138587782	0.045735127
0.024736034	0.015925103	0.372977429	0.029661748	0.043002939	0.065894278
0.039087051	0.125863789	0.683294204	0.150178382	0.675437229	0.032638108
0.012750206	0.04333192	0.417123968	0.023201136	0.23702572	0.019173209
0.000375062	0.027201913	0.279109771	0.000483163	0.052892887	0.021058295
0.101411174	0.259588903	1.368347044	0.178449258	2.519500541	0.133159628
0.019074325	0.085121877	0.487913225	0.086399942	0.354372683	0.031426287
0.033210646	0.163795174	0.618139904	0.541884758	4.550537022	0.153902064
0.022975545	0.065104493	1.003939769	0.234705104	1.771813612	0.085777026
0.064066023	0.148105393	0.683053179	0.314619906	2.304311525	0.209174057
0.035210489	0.130967208	0.406958046	0.20693041	1.225548076	0.015999894
0.02562085	0.067783512	0.466509374	0.265559321	1.830683377	0.090609285
0.01805317	0.21793996	1.334296921	0.625896694	4.907922039	0.158427594
0.036551385	0.067013525	0.645847285	0.090479485	1.373200558	0.032476134
0.035843401	0.132829054	0.74403776	0.170975821	1.975314727	0.264459364
0.071128524	0.22954151	0.765685756	0.345097408	2.762050373	0.094873057
0.081806161	0.228015679	0.673283797	0.247931959	2.113438932	0.231892282
0.114289849	0.132584626	0.77624254	0.485268494	3.145155391	0.123660827
0.035913937	0.04413842	0.429798741	0.142470498	1.273138251	0.090537175
0.178353539	0.191782941	1.034889325	0.493462471	4.694103795	0.217733128
0.084659884	0.169942818	0.677707342	0.329001028	2.298013173	0.124579707
0.06109451	0.178069376	0.822688959	0.313454921	2.352496697	0.139533283
0.025686964	0.105416717	0.599485694	0.112768654	0.661853659	0.052685933
0.059961515	0.135211531	0.598319806	0.083615779	0.369049881	0.049071071
0.039898364	0.109534699	0.367473953	0.081127119	0.482433472	0.055623008
0.049868259	0.09026344	0.465866654	0.038595791	0.156075279	0.030054245
0.053229848	0.08670561	0.735574126	0.059607503	0.792578259	0.026776435
0.020530753	0.06408797	0.441713746	0.013693021	0.488421823	0.032575638
0.05034808	0.10817301	0.342810127	0.067757764	0.839564166	0.02626945
0.037168095	0.076541179	0.240737211	0.049908251	0.524349534	0.04868423
0.028022799	0.087309462	0.236044204	0.061022099	0.418027138	0.031648997
0.037075141	0.042814011	0.191224933	0.033708626	0.213230636	0.013303169
0.020826031	0.038254362	0.360890038	0.040037883	0.138058549	0.029258792
0.031747564	0.056058703	0.356395598	0.038705408	0.22450645	0.028359884
0.03463564	0.082060719	0.28216155	0.026718543	0.23646652	0.033719781
0.025580996	0.122196309	0.417191779	0.029414632	0.575426897	0.065843685
0.032313937	0.073098403	0.499599933	0.053080303	0.494395965	0.071295014
0.024037887	0.091074261	0.516762979	0.072409154	0.30794203	0.017182028
0.000643085	0.04689	0.220095537	0.022213791	0.184468883	0.026178561
0.000643085	0.017142181	0.249535817	0.03961485	0.058574693	0.014483068
0.009829275	0.067446143	0.2476626	0.038072974	0.042296624	0.026789538
0.000480448	0.046430207	0.257758366	0.004847262	0.107946296	0.012374652
0.015113394	0.019076132	0.274584643	0.000628124	0.097004684	0.015187313
0.009944615	0.04706633	0.166001843	0.00055521	0.243394138	0.018124548
0.000432438	0.01053554	0.099128925	0.028059303	0.144490229	0.011786961
0.018359234	0.054552148	0.263403702	0.066751502	0.047262658	0.030482842

0.053823389	0.156301599	0.540840988	0.099132697	0.251241348	0.028725844
0.012953814	0.056512221	0.705624483	0.086458943	0.002038005	0.042270273
0.149828724	0.169145975	0.683294204	0.219549338	1.081698559	0.052835457
0.000375062	0.104625947	0.783284081	0.058900809	0.806960681	0.02698285
0.038452428	0.072634766	0.518522153	0.038616904	0.264791783	0.044487219
0.114187581	0.20829001	1.218093368	0.304454543	3.135401245	0.147868063
0.025036648	0.104168496	0.605216533	0.081081537	0.449126637	0.021620664
0.071059484	0.178615528	0.741715774	0.586067227	2.829669245	0.332679496
0.149063475	0.506375139	0.910664048	0.513322039	3.427576365	1.518645521
0.106376285	0.216690293	0.681295021	0.386796224	2.314738733	0.829808535
0.039743388	0.186101519	0.551229138	0.289737015	3.020050225	0.314073854
0.089904006	0.153511403	0.791151335	0.283837762	1.698127225	0.391029093
0.002512802	0.073784282	0.451260547	0.242173775	1.989903543	0.06651837
0.024944587	0.259064688	0.714069021	0.43036494	3.037848648	0.225680516
0.11973018	0.317124237	1.02903134	1.234137793	5.943660176	0.854621037
0.093029986	0.243344007	0.884682266	0.338007343	1.761236397	0.193678303

Camphor ng	Dodecane ng	Naphthalene ng	Decanal ng	Benzothiazole ng	Tridecane ng
50.56923259	47.14493981	40.74002551	77.11776687	0.585531764	26.14477102
124.634438	7.07281327	18.84767529	37.32128784	0.331232412	11.31795411
8.586298232	4.732250722	6.075078721	34.95975952	0.487828528	13.10432044
11.64917995	2.884429011	5.491698689	19.57178356	0.431681258	4.479410649
103.3523093	1.170879271	1.439645875	11.96800923	0.290917285	3.87594686
1520.879012	7.697771683	11.17876063	31.76408093	0.527563562	29.29945405
1825.329194	3.831338077	4.796302476	110.1265309	0.921748503	63.78741482
4.691194272	1.499482401	2.533488119	27.07082992	0.39981303	3.40389467
25.86259571	3.98388003	8.390627871	18.49084565	0.375524853	3.261471054
2473.24195	8.32659869	4.952795309	188.0295903	0.787448459	84.82008534
11.96354918	11.28352574	15.61080126	29.68028003	0.43044019	8.852453935
12.41693118	38.11223707	27.59323935	59.6451181	0.431837482	16.33163168
8.12795747	1.720112849	5.193927152	9.783004652	0.376175023	5.026829752
42.72151602	4.34219886	9.273241434	18.78475512	0.484831809	9.639915099
35.62416512	13.40923322	14.86154476	221.8788934	0.683883326	9.528345109
305.6050261	12.58601654	20.68508999	42.70325993	0.7955873	34.46471226
1.677932345	3.480641484	4.080275572	17.75373157	0.461693997	10.05849653
189.6855655	4.024210966	5.906467822	94.40342627	1.143109989	7.84878409
2.246219144	30.74807815	12.24394554	59.81370775	0.350942763	18.58277908
0.669778289	1.979992229	4.171723359	15.2377923	0.495388074	4.006165722
6.209581707	1.208615306	1.005621416	9.433790916	0.280768853	3.516270043
25.07798954	2.119408212	2.045370655	17.2128582	0.603857421	2.294046652
0.95413464	1.022443444	1.245937685	8.204842788	0.496480878	2.949788773
1.086750949	0.98751402	0.74337111	7.460929168	0.270962194	2.912585686
1.785064812	1.152789625	4.028080509	7.318904112	0.259435601	2.761063756
4.894162563	0.799926418	0.68604605	4.198371819	0.400504938	1.357325034
13.84786525	46.43990015	33.21000389	69.11652156	0.401719556	26.25404133
42.98948982	37.06514947	24.22474941	52.56358747	0.612437556	19.61975547
3.185418215	2.862402991	3.166704693	11.01204604	0.315163547	1.752583907
1.309306935	1.162470952	3.010758998	11.52119461	0.517551908	2.254151229
3.693901168	3.380584997	5.250261604	18.11150676	0.339165368	8.425353205
15.30465519	59.77852152	44.35497421	110.4265416	0.766996988	21.35444384
37.63166436	7.357613634	5.287766616	32.84531694	0.838015146	6.753574853
1.120258913	0.560377176	0.315412321	3.132698262	0.231058467	2.558461701
73.98156153	87.18972873	49.02865097	100.0414599	0.49594597	47.4780651
59.25621924	0.942523518	1.301858006	8.608232692	0.263783496	6.044789526
6.482802099	9.504610095	7.497725959	19.18898921	0.307622687	6.289051136
18.15119048	1.038192243	1.832603959	7.638636249	0.212534865	3.088050737
0.94119538	1.491165154	3.028788645	9.733303782	0.203273064	2.856588862
11.49658102	32.65432723	11.72438978	62.46182402	0.445932245	35.95457033
0.473055425	1.433552497	0.505196836	4.738327357	0.123621578	3.621906352
2.564459752	1.358598461	3.371711637	7.301601628	0.264708977	4.022636235
9.950439563	4.324153585	4.077255409	17.39768712	0.426608682	5.233231046
145.0068573	2.067850533	2.219854802	16.60771349	0.249913965	13.38019593
1.164725652	3.672849611	5.832977175	153.5468603	0.271472411	6.548138302
5.67313754	4.033171418	4.232155181	11.05950247	0.277641432	2.291867773
91.84693571	4.873802482	10.02488384	71.05942363	0.260064104	16.80149216
0.897122616	6.00403217	4.068634252	14.71047284	0.33929842	4.093266962
77.42878702	4.457192669	3.75878408	27.2651803	0.505771841	4.707830214
3.695519213	1.211030235	1.007968005	17.20805946	0.593629218	2.996379719

0.458483023	1.176150751	1.443335819	6.553144443	0.23167302	1.948670254
0.401625438	0.915696394	2.808082667	9.437221385	0.328437827	0.930849294
4.226675374	1.493873519	2.052795801	10.88983413	0.298454746	3.325850559
1.266341273	2.974461184	1.940959426	25.83203211	0.439091438	2.453377387
0.892040684	0.759114416	1.492510107	3.890283821	0.3008307	0.90409595
0.847567389	1.731129801	1.478411829	17.84625361	0.295273619	1.428885086
18.11256893	30.52265891	22.48332817	51.02737035	0.452106779	17.79921285
6.915831557	4.189446035	3.233105232	56.23435766	0.675624905	7.491159583
6.927153792	11.06245635	8.600789317	33.26169274	0.335725036	7.555405341
1.051942579	2.127839057	8.824784783	11.549657	0.368274063	2.17027541
1.745252474	0.579971906	0.713296532	4.297476564	0.178897906	2.001990099
1.792241464	2.940753158	1.669057715	18.85447268	0.442612856	5.585354891
0.491658361	1.199472995	0.850995409	13.33042784	0.424896516	2.401576286
4.039585239	4.890036632	2.74981334	17.68389728	0.28643729	5.157353302
33.4273076	1.453034971	0.823337925	12.0508526	0.544046803	4.013766208
5.781977419	6.680818088	5.234541884	104.0564396	0.386278637	12.09169418
0.783496114	0.554849857	0.319857727	4.900300952	0.298543683	0.543524561
1.992715439	1.295689176	0.980696014	7.534140036	0.491196424	2.900641334
14.83676544	75.2080242	55.60129249	121.0173196	0.804163024	45.22614159
1.031781009	0.719331106	0.561916318	5.888290008	0.367710249	0.47504338
50.23199411	47.45594523	40.1089099	68.86785769	0.58519035	51.35714351
0.700103303	0.893896321	0.398483714	5.987778166	0.315032127	3.104050406
0.721790602	1.031753564	0.549672216	20.95951536	0.264147179	2.020000061
0.561782674	0.983836412	0.498801537	8.392177405	0.327897427	1.072516091
2.669050205	2.681827075	3.155476161	15.07099852	0.684987933	9.586057299
7.608776079	6.345614272	7.913971194	26.26940643	0.429712247	7.956328687
3.384268298	0.982631122	1.617502803	8.887121045	0.376388692	1.091601232
8.736023318	2.196327165	2.027590844	14.61000307	0.452211602	4.71289748
23.45761601	3.626865082	9.06839588	31.46786048	3.054679922	5.362980146
25.99440933	1.535751835	1.318209323	15.35298224	0.461159647	5.5799259
0.458418971	0.861890524	1.072115285	7.801371582	0.394873062	1.006488795
31.30613287	144.15584	100.0691235	209.3370147	1.095936877	129.9408034
15.11021771	8.204899674	17.96131129	32.15449149	0.396931382	5.25715135
15.77672555	1.413534422	2.336282656	12.72268704	0.525610604	1.562333732
0.818818812	0.846797123	1.09669975	13.33284028	0.264511689	1.508997231
1.400568002	1.178299318	1.083036765	7.801959375	0.272196798	1.947275447
1.328190755	0.61169347	0.927980684	8.363163339	0.608595001	0.619402097
4.415831407	31.730291	27.64738989	64.74775721	0.92123923	35.51245256
2.523802977	4.344350707	6.57786761	40.04933472	0.598973151	7.791264434
10.65720276	4.145785912	5.724248029	15.23141174	0.483503025	3.193262116
4.415724286	4.294536542	5.619626904	14.11678768	0.456856073	15.93137044
1.408164985	3.007065167	1.669497724	34.05519239	0.256991509	3.314712711
20.91555691	3.519764962	0.910142767	17.69643258	0.340347716	2.685392406
28.97919071	129.4593056	86.27498894	180.3815007	1.305589286	85.70086326
49.52851273	10.28014368	15.40009792	32.23594703	0.259847265	27.20893473
4.515713954	3.554970985	6.581197917	17.50665061	0.574658537	7.61959328
1.592386036	15.97912128	17.87878596	20.93261011	0.446089255	14.66976433
1.487829924	1.53422186	0.866038993	4.401124652	0.294015378	2.905237048
2.338899945	3.226980922	8.325914451	50.22926847	0.439744439	3.314311266
11.97533026	6.77075658	13.97625887	37.10865962	0.508080665	7.658756446
71.45767501	3.078899595	6.783577938	15.85920491	0.361528277	9.463022201
0.488002432	2.660391305	14.06829954	12.51575828	0.397670829	3.06674574

1.0519785	3.224558488	8.991351329	18.60674459	0.56852711	5.524143724
0.929433095	1.069208805	2.810965682	6.069997606	0.41611794	2.262871322
0.428510867	1.756089745	2.162689609	8.130555006	0.339165368	2.431393811
0.490610673	1.42403848	2.69975652	8.218132665	0.270575484	2.4699302
0.442034805	0.834334896	3.158802542	4.401270851	0.230861651	0.435144506
21.57243849	6.148620965	11.72170828	14.62591244	0.298840502	4.772123976
0.483012876	0.851976658	1.338718668	8.592129917	0.32599714	1.174478944
4.449423349	6.788988173	12.61341222	23.7619817	0.483252444	14.44043413
1.522309191	3.342300602	5.24001839	44.8865441	0.338261324	2.787593195
24.452383	3.275972976	3.642434026	18.91147815	0.506724973	6.94655059
0.600225529	2.443493549	3.067309929	26.46786992	0.425802971	5.77706785
109.9083087	2.764872468	6.553525361	83.03207549	0.389837637	9.266984941
3.886223522	2.28753025	5.411013608	12.03281809	0.533698973	3.606567183
7.30849045	11.70799348	10.64536631	55.95460857	0.351899305	17.05465843
40.36957145	3.180039404	2.647250172	20.77721578	0.823790955	5.207156501
1.462245149	0.584325761	2.016068373	7.947573845	0.564066971	0.54282469
1.040848853	1.636685717	2.075029489	15.32452234	0.404752998	1.764798317
7.537124261	3.405590865	6.126808627	11.85117428	0.639401486	4.556581132
3.598415895	3.719643975	3.479878771	19.09532638	0.342203268	6.512312709
13.97988061	6.32169629	4.659166121	18.0686366	0.515331329	7.973315923
2.32902531	4.166541814	2.177397619	18.24401451	0.30881745	7.192211988
99.52021678	6.652406993	7.094868026	34.33591212	0.664110145	8.946089161
2.178645493	1.603879798	2.251215177	12.06681477	0.33028305	5.52626912
1.117393646	1.924904414	6.339764359	29.32789845	0.433169893	2.623750101
24.58953471	3.007670627	5.896303992	29.16031512	0.440571824	4.522581478
96.01941567	1.042295338	1.815128154	10.37155992	0.49206842	5.690398149
37.63097423	1.006836645	2.084589756	9.463561715	0.388262706	4.508247777
166.2226361	8.16757591	23.04809038	25.69235555	0.336924011	13.95957185
2305.181779	2.759166911	8.466947476	28.93597155	0.577820966	16.87110092
13.1424628	6.295205085	9.598282236	22.64489223	0.388564365	7.164641146
12.40495689	3.323909748	12.20623618	13.24471216	0.477405407	5.156780404
21.53560657	1.388546991	4.277552032	8.523814707	0.419548131	5.759210579
60.0441586	4.001101042	4.377395911	25.526224	0.510243321	7.168924145
1.100045053	1.755685927	3.246495644	7.418158963	0.38015629	2.984877391
7.435628763	6.058122442	8.329875224	22.2291816	1.188777011	15.02253699
6.587471159	2.878548031	5.088187702	8.991526614	0.518144567	18.23220225
171.0900569	3.15504568	4.632216237	20.66717078	0.417102918	13.40784141
24.09197877	3.707367978	3.306597778	41.57618307	0.440567767	14.40480672
26.35554936	1.594704556	6.601256536	13.06373629	0.509010823	2.028846923
1.175493919	0.746760603	3.326508966	6.532068366	0.414675482	2.616470862
3.485776047	1.713227073	9.248888893	12.28775344	0.370544358	3.425003514
245.1510746	6.518129928	14.76724974	32.81393662	0.512654677	7.21495803
5.149163132	4.433487685	20.3067317	112.4639083	0.35533571	14.10675484
0.496535224	1.371096401	2.239752619	7.085345084	0.392014642	1.350458458
20.6653376	107.4555199	92.49595496	166.8358721	1.122289683	67.08440384
11.00379244	5.180813552	5.703434808	25.46178985	0.452414914	6.911921394
1.141740854	2.451412457	4.433273293	11.32243298	0.382096568	4.196949758
9.518097413	1.582800818	5.697364145	14.8044125	0.312665067	1.483549726
0.585525786	1.323089852	2.918983629	8.879657266	0.334103203	1.899482451
19.85667419	2.307308163	1.929109073	14.93565708	0.499966681	29.37357813
47.96532926	3.835675605	4.422728566	29.92155072	0.422804251	8.404573832
0.453930009	2.164566724	4.190511543	24.16698227	0.312053016	2.12871342

27.91529671	148.8144711	73.77659071	173.9148282	0.99093272	176.5855717
0.670518212	8.051420659	2.075439818	12.47408266	0.32728923	5.751124268
0.418944396	3.670269802	4.393452675	8.019210731	0.352308593	3.456296569
282.1934573	11.54101508	17.41432061	93.75121519	0.285850911	49.12710771
2.773379347	4.668502433	1.816925916	30.42024918	0.55011793	5.418911655
11.94690568	11.90318982	15.99708933	13.9932818	0.404645677	8.312310504
11.36326402	6.26530113	9.353860618	17.48722632	0.816255759	8.015000497
5.920208336	9.879332342	14.30109294	16.42617437	0.536982557	4.194491453
1546.322887	5.53476434	4.504581879	38.31249537	0.38062724	27.58614855
69.06272612	121.971506	105.5676599	161.4018057	0.811075311	58.42904335
86.31791441	7.046917729	10.63388263	35.2122074	1.00495913	4.722450404
18.43735645	7.664073354	7.554229869	110.4026408	0.784324262	2.658758135
32.0030783	12.94272764	14.09163536	75.58112924	0.487957442	16.48162179
4.15850783	17.58068307	1.619479142	25.49862183	0.49969875	19.73469709
4.48166767	3.279078846	4.395458548	12.80315933	0.436538609	3.073173406
10.28378509	4.127361435	2.123589242	14.63869405	0.462450462	2.040349061
0.944776437	9.044352728	5.335217617	15.96840292	0.472167407	4.817777123
22.29740752	3.067770129	2.355401165	34.10149333	0.238150983	7.040057871
2.469156596	3.287584019	4.01218025	9.316346685	0.257525225	3.378569417
55.4643228	2.348075977	4.403016838	13.88541034	0.534887815	3.276037799
1.070773567	2.711610288	2.217315239	38.79941274	0.38293224	9.513279101
1.565123817	1.529443848	3.44146858	8.216386917	0.317259486	2.523052711
20.72119602	1.871824875	1.115376675	7.506679752	0.270450182	3.439614253
66.15308379	12.01919135	8.560396311	54.16920515	0.626360296	12.94023013
1.084453305	5.647821343	3.80582405	8.454029819	0.39912101	2.89236192
5.677482556	5.12961566	2.036977753	18.3063711	0.398380817	8.260476385
0.727838312	1.477268797	1.149501999	7.086082117	0.255523546	5.213690148
161.544014	2.194039274	2.911133046	23.49365997	0.30881745	6.775211031
10.1307827	3.858041115	3.37690767	14.34100699	0.431113364	2.98405289
0.592431113	4.026650636	6.859399298	16.46111583	0.323059021	2.826722814
7.910628962	5.444767698	6.95721966	33.63965106	0.353314237	7.405294694
9.866283624	6.659390511	7.212506944	40.41269209	0.326146288	9.576983069
1.645707349	3.552674956	6.176236998	20.92201691	0.48473432	3.869406465
0.641270484	2.029388679	1.345052486	10.90189515	0.234810781	2.06360196
0.697015181	1.69971867	3.268767354	15.92668756	0.396160967	3.454453558
1.329732792	2.608163424	2.763591238	17.05778913	0.462334542	4.025323664
9.370987385	10.56202315	4.683145481	12.76068662	0.45512972	6.717236275
1.811505052	5.333716605	3.121584554	32.68790924	0.400816446	10.3957019
7.136982764	6.26500678	3.807621915	29.01586265	0.712363776	11.0017907
13.53501783	8.113224636	16.09448633	21.32085193	0.397441373	10.22026231
1.898252766	2.920748594	3.675909225	17.5401049	0.432526687	3.177134978
1.524057766	6.366619994	2.273378812	10.59056225	0.30148515	4.850616261
0.496225511	2.712413294	3.935669871	6.984103114	0.394753809	2.046868374
0.651960706	9.101056867	3.897214314	20.45592216	0.415324581	8.710260798
4.073424038	2.825974973	1.93574597	10.12630181	0.461768305	5.660490198
18.90444043	4.732643183	4.554750169	20.52874446	0.304615433	27.41300394
10.44416097	38.48992028	69.2494964	55.73701186	0.604456859	19.66530714
23.60352642	5.774411329	9.711267738	21.29924363	0.690983125	6.286225814
2.054862315	1.675674754	1.558566023	6.036606195	0.301036732	4.529153859
1.128203203	5.955306153	12.69119694	30.58891127	0.349544556	8.530765445
14.26667262	10.67596297	12.74195824	19.63122331	0.532368842	17.71519347
10.02035244	5.1829177	13.91873583	17.23559479	0.541837115	7.647208585

169.4119967	3.082057727	7.983939978	11.0825681	0.415044598	8.088826775
0.775971181	2.180586328	7.44681859	9.359469991	0.415456262	3.758728936
0.511093508	2.360248981	5.369949227	8.292193467	0.629933213	5.664475892
5.198374815	2.325158619	4.235451068	8.862382295	0.392403078	1.534890908
9.115855387	85.56581353	331.1026485	112.4968125	0.989315897	64.93684554
1.083828388	0.755565133	1.416626137	7.88476932	0.327627851	1.46219747
3.326075883	3.113220513	10.40018993	7.197585877	0.36302082	2.590320564
0.677711706	2.81464074	10.47354761	6.107863105	0.639683772	3.261960791
0.85387092	1.40254755	2.138823782	5.73762085	0.25182258	2.345520467
2.071231339	2.966850687	21.77290667	27.85472401	0.549380212	3.50103218
1.747556686	1.433681403	2.406343053	5.433632471	0.286611656	1.250463587
5.578121635	3.304642471	3.073686239	16.16995422	0.402093055	6.467180782
0.759791147	2.565191942	3.025752093	12.66188079	0.587329071	3.738703934
40.54817628	6.461710384	7.702259442	27.20865424	0.295273619	7.053835303
41.24570482	2.469523217	6.488289235	5.447857115	0.288481632	4.192561205
3.606082074	0.921909815	1.760160498	3.488876547	0.209447598	1.586748484
0.254154528	1.003003273	4.758169024	6.718139421	0.240452396	1.169518069
1.94610933	1.574654902	5.99857211	8.780554218	0.224655874	1.655997687
27.55150707	5.92984489	11.9726257	31.3358724	0.342565625	5.866275473
183.6789849	3.22396329	4.573428139	27.14675975	0.610542332	8.217838584
4.172800304	6.732936365	26.67750292	20.31400631	0.515763202	7.637296441
1.689298081	3.083574587	3.820038143	18.77290882	0.328961602	2.591192421
13.67402953	2.599585544	9.840230896	10.6461942	0.406741095	3.045929482
19.29132596	121.7408749	140.0998865	141.3367609	0.646420293	72.13092035
1.727766726	2.28046292	2.82170629	12.14603145	0.33699318	4.242670297
5.469716725	7.946317791	15.84028923	18.38125992	0.438021978	5.565319492
4.590630207	4.53313169	5.375834698	14.15468837	0.360518072	3.074892229
305.486233	4.290072003	8.528799289	57.75542777	0.416029783	18.84420963
3.748597846	5.287291886	4.555188081	17.10841625	0.497342712	10.47386687
6.978361692	5.57086152	11.93035178	28.57918363	0.502815697	8.79663118
47.10790203	7.428748611	14.11621584	14.13653595	0.370737295	7.002335449
24.04637733	14.60385678	9.941582138	21.85283595	0.566652391	17.05541302
32.63119991	2.44563734	7.286299113	47.93480402	0.331177516	6.584667712
18.19694558	86.37429547	75.70854745	128.0569106	1.461494521	38.22769347
0.733479618	2.016983353	1.605843146	4.225195918	0.313862179	3.131022395
14.30075513	4.911303228	11.54409403	21.52865529	0.380666175	6.898649231
1084.396331	2.597684739	4.201832513	35.18871278	0.347650601	14.57555548
4.572193572	1.425792752	5.081904253	4.679938559	0.285121755	0.778533538
3.017448379	4.785840975	11.22636182	7.888298447	0.215606446	5.27925669
4.044385915	5.156627842	5.614760678	10.79792515	0.299793328	23.49462089
3.439421383	9.569505277	13.90255206	54.76350701	0.567374868	28.14262211
1.141740854	1.971259261	3.989257906	8.991855411	0.409483713	8.310626418
12.22974599	2.560035011	7.437592402	7.093876691	0.25182258	1.839898219
2.325719297	6.666261745	9.286689022	13.65974535	0.401475602	20.16769715
0.597112513	3.225887554	16.35426436	5.59767814	0.323676475	3.913100323
198.7630962	5.796257763	11.55716251	17.40809778	0.348992064	6.355716423
2.284757051	3.43572448	2.607141677	9.362991439	0.375542559	2.36059913
470.5711354	172.6935148	152.7983457	251.8910464	1.232248292	118.4948806
12.88549007	5.217316833	10.2300181	26.45303841	0.333539042	4.109461866
8.322683343	4.034242338	8.272835676	11.11349355	0.269788794	7.895478474
6.747379483	2.109889495	1.993940502	7.591317634	0.347078917	2.970913393
1.393831247	3.361751028	3.71291456	13.94120929	0.446262247	2.049960083

0.587431327	0.835126252	2.437748286	7.944154142	0.244527228	1.121652078
18.43365004	18.64957633	9.868754664	18.41686437	0.488747734	8.845864367
3.685296177	2.678754072	5.977945027	26.19866092	1.00276873	4.831057677
3.571425858	2.298398912	1.296619366	24.95385522	0.377669609	1.928370092
1.464455579	2.622412485	1.678983715	32.06073993	0.387492072	6.876469227
5.467971384	1.273299728	1.349653247	12.58744867	0.428664114	11.42689693
3.035277895	2.514825745	2.856162948	38.73254569	0.415948471	4.229202774
0.709751762	1.099452275	2.342943048	8.889534144	0.347943364	1.315481554
0.794783515	0.60362546	2.869710288	7.130929773	0.386228117	0.568369958
2.422426711	2.79150953	4.763800192	113.7040255	0.499847385	2.86884379
1.643920322	1.838522306	7.578549737	16.13126352	0.566502747	3.574193011
48.82214971	10.72330885	24.04478744	133.938871	0.675413504	16.01206392
11.67818873	3.785677949	5.415346663	99.86460217	0.312242688	27.4133892
1.111794143	2.275023806	5.871098181	18.64889674	0.340583778	1.836355258
12.28955122	13.0114707	38.15227907	68.53213942	0.660028341	15.88114252
49.72093801	3.268919773	8.465873483	71.22412928	0.406173156	5.166224249
11.54294178	0.758255516	1.36043297	5.348202971	0.232024635	2.283911047
12.75901609	5.198027842	11.93671171	14.26184869	0.458735366	2.165377385
0.980987276	3.239630023	6.440788882	42.52997412	0.473717648	4.098696481
1.388269037	1.899739321	1.798768091	20.94161251	0.305152873	1.883809001
3.370841747	2.766043408	1.514850456	10.34106832	0.380482186	1.727545569
4.858356454	4.955324388	5.104922792	29.82910877	0.279219831	69.61467349
26.1775035	13.73075731	26.42181083	41.92382784	0.407444197	14.2133447
10.76822387	7.790947092	7.321400994	13.13305298	0.457090408	6.253793478
23.11257745	4.208660773	10.5721521	34.67055607	0.569358544	15.5444274
12.51594708	5.895396807	7.29146703	147.2353353	0.429635734	5.398822182
1.844588126	3.449747593	4.102072033	50.51904827	0.440720076	13.15443824
21.21059237	6.478140017	9.830556813	24.5475496	0.424093564	4.46058092
3106.555698	25.19975182	37.56130576	80.77582487	0.906812508	52.18849987
22.36794326	6.615143879	7.587021072	21.42766526	0.352633621	9.82257112
0.440768587	3.123338017	3.419850637	43.47311048	0.404864866	6.453964355
206.4047429	3.739338893	6.313101464	12.01755197	0.398589038	7.838054007
19.46308228	2.099158992	1.433169253	18.74679569	0.263177113	17.95538927
3.178117222	3.391426328	1.891662854	39.64669009	0.446131204	15.43852495
0.839960577	1.059403665	2.588818358	10.37332552	0.34800839	1.203922002
7.929676301	5.054697306	7.738202635	23.53060917	0.38062724	4.252217888
54.85736617	4.786833816	10.84110886	24.0647772	0.381098189	4.108467746
22.28223218	5.468553246	5.873275828	26.44424879	0.287840418	8.491252224
0.928727338	1.294554687	1.229584607	7.832700638	0.431922823	2.146577591
3.776914807	2.148303195	1.805677854	26.66564079	0.328183492	3.676844105
5.474539888	3.074688751	6.733532893	23.46798843	0.348355028	3.343355885
18.38530907	6.473091372	10.92752211	21.35621466	0.575005073	10.64800797
33.74705389	4.961421321	9.454553443	46.65900332	0.388358757	4.588749255
12.88382352	1.225591573	1.902742347	15.82278639	0.360827413	2.471002645
28.64035928	45.46058608	12.91530736	59.28594756	0.505893992	114.0949365
16.28713665	6.828832159	10.94004127	71.6485369	0.35174865	6.730556892
9.418359514	2.54965706	1.501384193	30.60231127	0.457596266	9.846728791
8.597715373	7.856249301	8.535142936	28.74330542	0.419106224	4.792567271
1.14717696	2.054077816	4.594782016	25.12246714	0.249582068	4.257093202
2.524678778	0.966837117	3.981615359	5.781420906	0.324293928	1.110491677
10.35839711	3.433840418	7.370741727	13.19465757	0.298561029	2.662270735
39.52629395	1.532966979	3.266854923	13.29108216	0.424933203	5.047147656

0.846700017	1.517633491	0.908826856	9.715337028	0.237631589	1.95778162
16.55828514	10.67295499	12.56767706	60.00258036	0.435732122	64.42178297
22.69842389	10.44012643	17.65658205	55.07831654	0.779152688	11.85544137
1.072065892	1.538342658	1.806231207	14.32146881	0.17928369	3.278656158
41.9264043	7.97816517	11.55141215	18.49977198	0.369900333	5.357253533
110.9249629	18.21131557	6.537176656	17.81570634	0.395310623	300.4432545
283.2293473	11.33615412	6.582350312	64.01568975	0.666493738	17.85150961
3.135111336	4.166843863	1.150288889	37.48453493	0.41830322	4.399363704
105.9430762	4.63454202	5.070243263	31.12793537	0.582664683	23.76865788
1.43573081	10.36029131	1.770459133	11.0480969	0.363661522	7.4808604
1503.292888	25.32095699	5.009105747	82.71683169	0.582688902	107.7498975
2.98210337	12.44122802	4.535119322	19.83021028	0.344346719	13.00411989
76.51806231	15.53340059	13.98565112	26.06734006	0.471758606	18.27518006
24.97589558	9.451276425	1.096818874	9.000188001	0.33297488	118.7951948
1938.901953	30.51757334	3.128586124	104.8355145	0.648905313	51.99218589
36.45009014	11.91004931	6.109825504	44.0431638	0.586817529	16.45659809
11.46682043	108.8433781	5.857690763	34.75499323	0.330600893	22.11133924
2.540366519	834.0928551	349.5157199	223.4236448	0.744431038	240.3496953
30.49721145	70.50002901	22.17923915	36.05940194	0.362576038	14.3672839
7.358717566	319.7649024	36.06090581	140.8694628	0.482140017	107.0024749
11.1976645	35.99689972	4.040433474	25.77270937	0.339744818	9.408317409
5.08329703	481.0298491	13.84527865	46.10490511	0.615619786	108.222469
2.492294825	129.7584284	5.451733586	82.03480649	0.533095964	49.63768834
68.06122419	88.53455949	12.21995742	29.55461056	0.5454268	48.40708909
29.28372193	22.42292877	17.62883317	68.9602109	0.432831464	18.94929482
5.127513755	16.14223584	10.90679538	49.45232683	0.657074743	20.1383065
6.600073643	4.040332043	7.571942605	9.605343621	0.633306743	6.059669744
2.538823759	7.792156993	5.306498671	32.45555556	0.574355438	8.568529821
7.158839949	11.40810451	21.77574961	18.06527047	0.587662958	11.83792014
18.39026034	8.986978254	13.89313991	22.58001183	0.425201998	9.305301201
1.051554427	4.379284631	4.407885953	10.81863601	0.421251752	3.42835775
0.513605329	7.040781153	3.29631503	18.04177323	0.276039353	13.78849196
10.6913803	7.483410079	6.207408152	12.65340036	0.418146843	21.31754001
267.5603023	95.38014761	65.24665689	104.4471377	0.827180344	102.129471
82.827795	2.430949299	1.802050653	22.59824315	0.678738432	27.70612898
1.645289227	1.10941211	0.953393948	11.39771078	0.365085898	1.678675306
11.86471373	3.96247491	5.50699787	43.6982045	0.284135442	7.105508937
8.926979547	3.72982581	5.952657623	17.93109984	0.578886876	12.64848209
12.06713445	1.286834808	1.317019628	13.25053881	0.347943364	14.34601761
2.510081914	1.089459996	1.009233201	7.24865499	0.353134831	1.745353047
17.3412542	2.985820274	0.631220914	15.22690821	0.260418982	12.57833738
49.05286719	245.3857024	156.1105281	283.6211711	1.409042845	203.8325074
99.63219613	3.185141682	4.04702713	32.72114212	0.992850477	7.035332894
7.512116317	2.369080713	3.292153749	10.1259659	0.335464402	2.709623444
1.491259827	2.014436079	1.05871693	23.81365329	0.372455292	23.00550507
25.93491084	89.71202764	81.23477567	131.124607	0.905598791	52.39048189
14.67565148	1.276513277	0.862183213	16.75872339	0.513322514	10.35235678
3.617101761	2.496339989	2.213814475	11.34048088	0.364046916	4.392619435
6.543341631	2.727316211	1.178737298	27.28904706	0.242305101	5.986236503
5.20032675	17.42339709	5.773896478	36.91676146	0.36560013	11.4897097
23.53561841	175.1708218	39.17649094	59.08977803	0.561063901	57.42568446
8.001412681	18.70007604	7.454728008	27.15646268	0.616348301	8.213053761

0.936252272	94.10084228	4.824918422	17.66793577	0.261905585	17.90170891
88.22884084	57.8945775	36.40487872	107.4217334	0.590831027	38.28179736
40.24049313	67.49833328	7.99705179	59.67607154	0.428728734	14.242757
4.564671914	48.75644577	3.375961653	13.3100493	0.352488844	10.46982577
465.0141846	23.72595101	6.071197095	17.13672385	0.353931691	12.22546157
43.09601921	50.85648787	5.726433104	28.73508699	0.273737924	18.3045746
121.2397621	165.7071939	3.489844438	16.32577822	0.418163265	81.92121547
2.999854868	34.79791565	5.595055399	44.85316493	0.495933883	20.73381577
520.7108772	64.42204433	28.81138848	59.15725079	0.541164349	41.92757811
17.45969389	362.5111409	35.62202516	90.56037146	0.522564905	88.7011151
11.87437711	17.64660049	14.48761633	80.74728926	0.440437858	19.7036604
45.54213824	65.82685467	52.6314015	90.06123727	0.831326151	46.14085858
2.301275276	25.45426892	8.974486728	30.58595006	0.285782098	15.9406722
2.092834607	5.097999024	5.563082834	11.14522621	0.360293285	4.856825511
5.853543339	5.950237752	5.887545722	28.1139714	0.264062836	4.864462272
22.66753744	8.711392457	7.049633958	28.14702052	0.664110145	12.27522695
0.590090413	17.24320566	4.976520012	20.9133444	0.412589763	13.84622802
0.960254031	2.863626303	1.757181479	12.63753773	0.194191154	2.224292106
35.29795541	40.6400718	4.21733339	147.7417777	0.665830158	97.44545127
11.32599027	8.803027988	5.810183391	12.54819254	0.298840502	4.47683534
22.75309068	80.56750323	35.11593044	115.7153801	0.722816572	56.62959447
1.118828198	8.856387607	2.239915065	20.91416317	0.361467033	6.042677832
9.212541011	36.60736541	9.760867709	47.5858061	0.374192068	24.01150835
2.428945207	5.356201048	6.638018558	18.55038104	0.327693458	4.259376587
1.688169519	14.05918806	4.212277368	15.21066482	0.357098837	9.253718436
6.781165099	0.663746015	1.329568646	7.884341971	0.519557416	2.514765375
0.658582212	1.494920654	4.92932274	10.52491089	0.484615817	1.68991219
2.06651396	1.596397735	3.755972534	8.076370021	0.574195328	3.886442232
33.3749237	2.004184001	1.542564324	16.39097018	0.320054071	4.795935682
10.5125517	12.84112506	15.76426845	35.26736369	0.583429095	27.29894019
41.23751237	0.785013684	2.045379512	6.776458654	0.367515665	2.179802873
2.141700795	20.75988725	6.865862257	61.60871263	0.276559035	14.88851605
0.154020535	0.412663955	0.06946066	2.159399183	0.1056178	0.298949809
0.232822131	1.705730565	0.09609724	4.979730557	0.238985057	2.932665409
0.074880206	0.046654969	0.062213538	0.524047064	0.170918213	0.045894869
0.12519497	0.011883931	0.120747742	0.363587222	0.178736764	0.049601095
0.03862398	0.045642221	0.133885094	0.429037947	0.201801489	0.021972866
0.03003536	0.003170684	0.063251018	0.578380146	0.167287003	0.037056221
0.07696561	0.019404835	0.092719408	0.454550285	0.206846782	0.008004355
0.064166451	0.000464992	0.082677108	0.656077314	0.188008792	0.017059482
0.000902992	0.015861896	0.0866018	0.290752442	0.137994717	0.02807005
0.043042622	0.029898041	0.080130458	0.336701724	0.133054749	0.030519596
0.019715327	0.032003463	0.067187774	0.382651007	0.119469837	0.0375183
0.098812336	0.045784571	0.227764141	0.429586017	0.114259936	0.052170654
0.054533223	0.032239141	0.07987685	0.602026649	0.128835353	0.063672792
0.205237572	0.067795896	0.072566832	0.35102973	0.082679865	0.025445098
0.090266717	0.010637987	0.038006414	0.611641522	0.051773884	0.035031142
0.144891054	0.032697841	0.090026037	0.457957975	0.153776247	0.026141118
0.127138144	0.028467184	0.075109567	0.737696566	0.155522863	0.055181865
0.041819911	0.065175607	0.045846254	0.776374626	0.109705502	0.017322371
0.001718626	0.013977716	0.060831773	0.347673067	0.07121546	0.000834689
0.001718626	0.000832312	0.013932648	0.226857173	0.000897114	0.000834689

0.124291158	0.014906879	0.037133997	0.091048781	0.150789527	0.000647987
0.10205451	0.000635853	0.059908139	0.385037207	0.025446489	0.000647987
0.031833517	0.000635853	0.000261577	0.271964735	0.10942015	0.022514201
0.001238771	0.016868275	0.014573876	0.313939709	0.032840969	0.018721872
0.027046501	0.037472651	0.001186855	0.579107326	0.022686062	0.012353055
0.13440666	0.006326502	0.010175283	0.608570394	0.094334571	0.035868686
0.001240615	0.038476498	0.080317921	0.876758444	0.062189807	0.068275338
0.001240615	0.027710961	0.074006193	0.5619524	0.088792228	0.067823826
0.123449378	0.313900358	0.166982496	1.093076495	0.402091234	0.337065697
0.046512089	0.023343698	0.134599631	0.846070657	0.216942223	0.080766762
0.001049145	0.000490926	0.048189395	0.334256757	0.167907326	0.063653002
0.390629451	0.28896157	0.189129581	1.680898165	0.37139378	0.369690495
0.035097395	0.083499208	0.096321483	0.947561234	0.056207716	0.069915844
0.437442471	0.816006395	0.183515093	3.859922724	0.245585374	1.785799471
0.302230808	0.342541744	0.128114402	1.173249088	0.211556279	1.47568954
0.379407166	0.839783596	0.142399149	2.715621413	0.113294876	2.350239862
0.269714174	1.062030499	0.096464968	4.047007265	0.121547644	2.608690004
0.390122288	0.328206798	0.075800109	2.518033666	0.284711344	0.271049577
0.341147355	1.275936549	0.194036389	6.524872803	0.310297836	0.902848292
0.001718626	0.304560342	0.067769513	1.664956039	0.137092647	0.303108859
0.175786553	0.473165355	0.097865042	2.649313447	0.222414119	0.345174187
0.53160364	0.462545051	0.093138618	2.626555375	0.205732032	0.285000942
0.182163674	0.565051688	0.185053155	2.280268726	0.277780253	2.019708801
0.41021564	1.053758819	0.21815749	1.8452204	0.239768814	0.638593856
0.213500979	0.331448021	0.097350946	1.119779829	0.086323401	0.409595444
0.593465047	1.261045712	0.214261953	3.782997489	0.317700579	0.41983867
0.207545636	0.456189394	0.15385342	2.478177282	0.278999635	0.316942043
0.39822629	0.381651357	0.213504954	1.992616316	0.247620492	0.261964784
0.029004981	0.186076706	0.170961623	1.248227667	0.404301956	0.176623565
0.186608578	0.076024681	0.154904858	1.459359037	0.415247928	0.10014054
0.087458897	0.057457622	0.193295122	0.967422943	0.407820304	0.087674143
0.105977037	0.03950426	0.174539463	1.056703337	0.445147355	0.04837513
0.291991481	0.072359089	0.179149043	1.34563968	0.400878079	0.067617275
0.174239218	0.040277315	0.145729584	0.464262431	0.395226682	0.035547033
0.319207695	0.175873947	0.23098463	1.391446626	0.403518006	0.126401834
0.308672787	0.076217319	0.147432415	1.349674551	0.443449415	0.090358511
0.089697212	0.067093825	0.137653498	0.533030478	0.336828436	0.06866253
0.067739274	0.031561869	0.1370918	0.876015652	0.31993527	0.079572807
0.25728495	0.05865273	0.109819809	0.613522691	0.263657964	0.036270639
0.125224438	0.074907247	0.093794	0.442998066	0.285925962	0.024091905
0.090949521	0.085278864	0.087393718	0.794680353	0.323547303	0.113263359
0.194735762	0.070471565	0.122240598	1.323075469	0.38852141	0.150305129
0.187224915	0.041461345	0.154204463	1.155577671	0.387473441	0.059034209
0.001718626	0.030582438	0.06998959	1.259638202	0.157077861	0.09151694
0.116293725	0.080396602	0.117998754	1.107644013	0.100823185	0.000834689
0.001718626	0.000832312	0.072487177	0.667250593	0.148195544	0.000834689
0.134824307	0.015435435	0.065330554	0.769483609	0.164373501	0.018247622
0.00140442	0.074105206	0.04906331	0.662064762	0.0729904	0.035847258
0.034174217	0.017549661	0.033880549	0.650757514	0.087809281	0.037447225
0.001238771	0.066222942	0.051675047	0.573750404	0.153571527	0.092698128
0.047692686	0.000576443	0.021076143	0.691602678	0.077973888	0.017742054
0.251057601	0.035076793	0.057794828	0.69963806	0.047509167	0.034888868

0.153215985	0.045965567	0.091166203	0.506861342	0.28221399	0.019963589
0.006409846	0.000563084	0.030415822	0.449146901	0.112623562	0.046151266
0.288689694	0.39184463	0.281413138	1.429093447	0.625284561	0.401038563
0.026403479	0.080475625	0.186277985	1.271098721	0.261749975	0.166743035
0.049134951	0.035178168	0.119163239	0.701427598	0.309094014	0.010681839
0.433171749	0.540382617	0.207146161	3.477273918	0.435198038	0.291682221
0.057887912	0.054147443	0.084815095	1.117407662	0.152088433	0.069544376
0.532915817	2.587634527	0.334238487	5.710679213	0.387051445	7.025723717
0.373387219	0.636961304	0.443963686	2.538090093	0.211682576	0.52182858
0.522481784	0.490515366	0.30537474	1.894640121	0.164605265	1.234295469
0.192004545	0.534332885	0.217129404	1.873918743	0.21385983	1.510478902
0.237815097	0.393353325	0.172043676	1.278309731	0.140292819	0.256109365
0.095032411	0.4483232	0.063378485	1.617527145	0.135970645	0.391039905
15.3537414	1.377236234	0.139264411	3.77451103	0.262454694	3.195291707
0.467505185	0.521521472	0.316810475	5.181731102	0.225683847	0.422260492
0.36999842	1.143537562	0.216815195	2.214616519	0.369964921	0.702974193

2-Methylnaphthalene ng	Tetradecane ng	Caryophyllene ng	Acenaphthylene ng	Pentadecane ng	Hexadecane ng
13.3395666	15.45527182	11.83868529	0.910766191	32.19057995	6.208544883
12.34566155	11.58651956	17.83139621	0.833784699	5.298876666	1.838301107
4.273426418	4.700973837	29.76521821	0.47168021	4.911984045	2.038853059
3.864485202	4.621828417	13.76236692	0.378406781	5.50667451	4.183418569
0.99439695	6.063898989	5.285482889	0.212199435	3.599404649	1.162061391
4.989205905	4.533438522	37.97324833	0.455327785	5.472473408	2.572758381
2.746195999	2.691428056	47.10159362	0.394687857	3.783758932	1.275094792
1.536718791	2.733757252	2.911316997	0.175296424	2.654925224	1.070255236
2.78304403	3.497320473	4.206696356	0.24411001	2.546984308	1.038896227
2.747688014	3.694772124	91.79504111	0.463990317	6.765465908	1.899077327
5.703529589	3.882101326	9.02918935	0.502277109	7.349015252	1.646248251
7.6544882	7.970724242	10.77202305	0.425080976	20.06107474	2.986798019
2.822470349	3.445725493	6.812558295	0.326338308	3.708695144	1.526960228
4.953132288	12.72543065	11.18239124	0.308534097	6.55472676	1.170950143
7.061724284	6.12350635	7.689322851	0.382045105	7.587995438	3.23583291
9.449169075	7.279178537	118.782327	0.576766523	12.00189544	2.719098442
2.793325811	10.84259713	5.507914902	7.606228863	6.98989759	1.834268171
3.857427386	7.93106973	44.72267888	0.321472774	21.88458781	3.018512386
4.356632181	8.926376375	18.01971566	0.498068079	6.191846816	1.400844037
2.522912482	4.501730974	3.480336334	0.278927278	4.867788671	1.524171839
0.515158226	2.365072206	0.837072879	0.113310662	3.470156418	0.844111605
0.993701957	2.848356327	7.124571101	0.254034221	3.803824958	0.991166493
0.781985865	1.570169572	0.777875791	0.130235773	2.601271559	0.551469113
0.396410194	4.825602327	1.63814414	0.13261458	2.159504097	0.432261597
1.525040932	3.923712435	3.164841243	0.179651715	1.271989899	0.620415653
0.282780616	1.077194823	14.02551484	0.121399741	1.246392841	0.610728823
10.16326769	21.22155136	3.262772303	0.593999485	7.810219382	2.278786846
7.491684779	11.7865859	22.16973155	0.406093217	3.614813843	0.732173901
0.849759161	2.186507991	1.607880656	0.104934914	2.291682862	0.440448045
2.02817295	2.616184534	2.779369999	0.340020123	1.731007193	1.081527696
2.387619123	4.597250213	4.05879089	0.825198343	20.66943135	1.79660099
13.35512218	10.11805995	4.67192057	0.677504901	4.245132923	2.310669352
1.390672772	7.094893664	41.31345174	0.509675151	5.754332562	1.090074285
0.184080366	1.806119162	1.644094584	0.008891869	0.890434996	0.44842343
15.49119274	31.57096185	6.930890685	0.658944438	9.184052468	1.549084954
0.491478492	1.153566412	11.15693315	0.123671949	1.809160684	0.372903589
2.037961225	4.462254499	2.543613663	0.125603345	2.548495834	1.514806444
1.054068174	3.478619338	5.98894146	0.143813646	1.445646347	0.510017628
1.353434519	2.019720717	1.760070314	0.210032923	4.200403435	0.657843701
3.011632011	14.83207599	11.90370371	0.219138074	3.873335196	0.748360391
0.249064768	3.843343993	6.085116455	0.059384068	1.253476007	0.31720101
1.440125211	2.462810061	8.581925329	0.629515715	4.881704055	1.354600919
1.286210519	3.328951654	51.08868311	0.16145825	5.383636979	1.000210478
0.986253315	2.574807605	21.38288771	0.430945882	5.034842511	0.779925079
1.847849845	3.157276586	6.281978309	0.390392888	3.668260515	0.994745382
1.510789957	4.288891658	1.363095457	0.131308878	2.393134861	0.378882115
5.030261117	6.525189703	17.47572893	0.275926591	8.313048166	6.642122606
1.715779297	4.364974514	1.195864616	0.21815248	3.63900195	1.946144809
1.609470027	5.289811963	22.5675235	0.383466588	3.19051119	1.50390498
0.509810195	3.755389962	1.927318249	0.087805937	0.862605433	1.225352675

0.611808991	2.27525338	3.142223559	0.122806811	2.904718511	2.012896009
0.971087946	1.417619478	4.498473871	0.084546419	1.372921285	0.556443802
0.847135524	1.96875482	3.839056554	0.048492212	1.429609782	1.284633725
0.847135524	5.518885452	3.523631459	0.087081948	3.259699823	1.424006482
0.485637197	1.263037209	0.39099096	0.095252843	0.779203395	0.369154377
0.84378157	1.241143049	3.267754809	0.065178255	2.193501364	0.808883384
6.133073788	9.589225822	3.389387893	0.375581115	2.74350613	0.728007525
1.144243158	3.465803245	12.69573309	0.146848696	4.554924579	1.36965838
2.692344743	6.965193097	2.872095542	0.181634863	4.228513982	1.52443928
3.520009463	1.994791125	7.396362697	0.624521504	1.07882844	1.029217524
0.337748554	4.0749207	2.425007195	0.041197647	2.449173052	0.625641221
0.939338112	12.68399065	3.966907218	0.319381985	6.717539599	1.138970357
0.447104137	1.836109084	5.352984158	0.110087043	1.944373245	0.72949092
1.049515578	4.754655473	2.450047081	0.219548895	5.073265108	1.431688048
0.531897908	5.366396213	37.21967768	0.167627167	10.8779791	8.094731101
0.903541492	31.33902329	7.820480674	0.45668395	11.2356472	1.84624809
0.118202374	1.00571132	1.64739685	0.054393568	0.669550428	0.299256143
0.306047623	5.839194134	4.317573812	0.15710415	1.266113142	1.613155364
13.92218185	41.55350181	21.94594403	0.580808201	85.34013005	21.23119627
0.216504901	1.051426428	1.015668373	0.031874892	0.943913753	0.378843073
9.112909719	28.39426712	100.1211886	0.341036798	16.83183498	1.032582075
0.133699201	5.755611914	1.16604828	0.042277421	2.600088364	0.615531165
0.271481095	1.455729775	4.376013638	0.044287584	2.461983393	0.990930511
0.218950575	1.435321601	1.010893491	0.048133933	1.20672058	0.303095162
1.054544637	2.216635725	18.49334947	0.121566725	4.752279229	1.302227495
2.796613866	8.877335367	119.3433844	0.260929062	5.102007263	1.400750866
0.869999652	1.313414157	25.34149542	0.187775897	1.609587448	1.73333611
0.966331816	2.15715318	2.575310804	0.089550837	4.865564141	0.816853474
3.143331381	2.534899094	8.383173272	0.179445172	5.583012567	1.019188444
0.898979802	5.392750579	8.049136677	0.107374714	3.662306671	0.841166637
0.682174276	1.246399727	7.123150457	0.106308627	0.947859627	0.502549031
25.63844615	52.03580335	11.23135357	0.770054857	150.0127269	21.59094217
5.075797038	3.245565933	35.74548268	0.198466568	5.518280973	0.995642421
0.90041388	2.379701272	33.90663972	0.155521196	1.31192492	1.48654068
0.680971838	1.035194525	1.172579816	0.091238826	1.294619365	1.089885368
0.586880127	3.58666174	0.815535308	0.06618121	1.656408528	0.341122337
0.320493287	0.65867215	2.175239054	0.073029254	1.282902655	0.392521654
6.239604732	16.20202527	2.683905203	0.236604126	33.49699832	3.391741291
3.445140297	6.357428108	1.964226494	0.194782392	6.297860147	1.328756758
1.832952506	2.158482886	2.219401852	0.080065632	4.302807736	0.704030629
1.971272204	7.251365819	7.174056718	0.141458393	4.35118016	1.929670457
0.912416781	2.002098589	2.252259999	0.117325935	2.407444698	1.008127222
0.421748038	4.327151515	1.822301194	0.048623435	1.092071855	0.567862613
27.36914784	72.57204676	5.676468075	0.991691421	39.2085009	84.92547304
4.29498332	8.331837609	36.89096814	0.366580771	6.775746515	2.018234485
1.699958934	2.510541271	13.09945187	0.249965728	2.935705321	0.757512872
7.246974221	11.79007329	1.549341261	2.794324124	5.951593776	1.331138694
0.464874506	1.413774998	1.197715158	0.074253691	2.519922198	0.418925006
3.181007151	2.403848143	1.269886294	0.178606445	1.54968405	0.631950001
3.970064063	6.879407568	1.231024913	0.291669779	5.096050553	0.612846237
1.811262969	3.790573015	60.82957871	0.141325161	2.333562668	0.444516842
5.300228309	2.803333679	1.207792934	0.349345133	2.731786635	1.804162659

4.327714442	4.410937919	4.185723623	0.227281782	4.682276158	2.278063333
0.913725017	3.454941041	8.729206749	0.228044071	3.942310194	0.909987757
0.948446608	1.751329227	2.928222291	0.099711316	4.622809926	0.734146351
1.250116622	3.365944518	1.463059297	0.08449221	1.001193271	0.25453561
0.946296238	0.766123332	0.984988024	0.221460034	0.63156957	0.451644064
2.940334049	2.271020256	1.893534845	0.159147969	3.945245484	0.772254437
0.495033958	1.276748096	20.70007072	0.053556383	1.606191956	0.613173743
12.50189541	10.58671953	1.464100897	0.602946512	18.06553295	3.48178435
2.454279161	2.199983706	1.279482325	0.33485726	4.403099347	1.455494995
1.580417757	4.999733647	71.65450627	0.17770795	6.483640978	1.913285802
1.682340029	2.840688866	9.066038584	0.141216154	3.028596778	0.903510172
2.724008562	4.763130717	23.84234156	0.186954741	4.556777098	1.298315015
1.413906538	3.10449941	4.460053385	0.208090261	5.594762224	1.638700812
6.611557609	9.268040319	4.130171622	0.396818972	14.52189895	2.718225275
1.406669088	4.959101465	5.283393201	0.32513599	6.733464706	1.784022875
1.002056025	0.814820515	5.870333562	0.100385433	0.701840446	0.558418531
1.089983435	2.17837567	1.258783042	0.081919002	2.161041717	0.709806852
1.722190671	7.17680991	80.3750027	0.132440369	7.076504964	2.395984392
2.697143825	4.394789725	20.48617409	0.222181153	7.423094692	2.641990111
2.66425852	8.550379875	34.17657133	0.247404758	14.28365122	3.498489436
1.154307029	10.44696809	3.048721765	0.144966551	8.891986424	1.955583985
2.228482079	5.413634846	22.77873868	0.285292862	5.116456714	2.750498959
1.351840511	10.25585515	4.303333942	0.240739258	14.86350015	10.04690794
2.848838987	3.620912356	7.634790003	0.176189155	4.656918686	2.045931149
4.129799674	14.89311375	9.559237494	0.377908227	20.3153204	9.534940679
0.887704504	1.978273955	17.44791222	0.166889958	2.784972499	1.25567113
1.006234908	1.625165081	9.507886626	0.105107977	2.556277438	1.227236027
5.430921023	13.88857931	11.04667136	0.72701453	23.54075591	10.02937135
4.111933541	3.277752578	35.87447081	0.254394397	4.671706747	3.354966188
4.11503769	3.87177187	2.420558555	0.184032085	6.454477387	2.227334675
3.756973619	5.385117457	6.767977446	0.197192258	2.062285102	0.566325495
1.982838955	2.089896455	3.692389185	0.276615581	3.743091471	1.117629555
2.357317418	8.981688624	90.62748313	0.268854882	6.287178935	2.703251168
1.403449071	4.416441108	41.21022201	0.281157512	3.316959808	1.495149526
2.557825027	11.9905262	132.8794076	0.325523466	8.485545579	2.826192204
2.526429865	3.68650503	11.41137407	0.22787962	4.038280626	1.287869505
1.800043065	2.968566775	14.60674207	0.150384164	3.460022995	1.327254934
1.613197319	2.982053626	5.659371781	0.120942403	3.106677946	1.49522388
2.164117859	1.720717529	32.18128582	0.27776043	2.500604023	2.460026722
1.262815132	7.924029042	18.07331564	0.156928266	2.851928781	1.58276784
3.928179987	3.2379606	8.220339396	0.349872784	4.56334757	2.576150475
3.871305082	5.193266378	11.95169973	0.369395885	9.39178757	5.086738782
7.844116012	3.630775747	1.743198894	0.223686224	3.068129272	1.274297784
1.131621611	0.878310202	1.518211944	0.136218025	1.980761371	0.614094388
30.86852401	42.06646588	3.534263766	1.097080571	17.41669592	6.076535268
2.799339965	9.969878177	11.61481677	0.277925731	4.126062341	1.61450593
1.927324474	2.631418174	9.396208794	0.268804521	4.960176575	0.987678704
2.294579586	4.942679901	34.86156706	0.457289307	3.915221034	2.534270269
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1.536763007	4.782058481	12.65687982	0.149272375	4.273665369	1.352498959
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19.52062253	95.40401318	25.06191321	0.753771688	244.7010413	26.70718021
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2.407934997	1.690047837	1.346657251	0.509271426	2.567518922	0.363232193
6.854723597	9.045058259	29.3310584	0.195210803	6.491640247	1.811205631
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3.520351998	2.90562814	166.2308961	0.467623504	4.935215513	0.886787009
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4.582711432	13.44911641	23.40383041	0.21461815	5.10944823	5.604773718
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1.415578306	3.794901501	10.34689458	0.254192002	5.466233994	1.928968562
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1.128383539	1.93064405	10.76128089	0.128083325	1.74364783	0.582511836
1.335899667	3.211692675	3140.940473	0.215748719	6.716884425	16.1266168
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0.927137213	1.964384643	17.56402042	0.107736387	3.233306314	0.941244098
1.418848939	3.363295743	6.802144606	0.253879873	2.863515496	0.45399246
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2.826633818	4.809828739	158.666705	0.283889599	7.330425351	2.478056734
1.679829361	3.068346676	10.2148964	0.555771826	4.428079911	1.162069742
0.933180554	3.552360975	10.51614509	0.133389631	3.59954711	0.917642142
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0.812949533	2.055635173	4.013337101	0.162322418	1.497282774	1.072313738
2.248783748	3.363182144	4.054785848	0.364255741	6.882710112	1.328719931
1.838181282	2.537099292	12.76618124	0.11507291	3.384083326	1.056460003
1.748984104	5.485554571	2.187661927	0.198273423	5.947196545	2.000245756
1.833315982	7.606257352	41.45991209	0.172818309	6.263635278	1.222983069
2.084558155	9.638010407	3.123443717	0.238169333	5.621434287	1.812407788
4.247507478	17.97692246	17.01654728	0.895807052	8.086700045	1.4185005
2.159479592	3.861961866	1.711000432	0.123302478	2.356236446	0.898055226
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2.127697151	6.194901893	1.724467281	0.186458329	4.530805705	2.329564213
1.317939274	3.861146624	2.37733274	0.165323857	2.581277664	0.806053841
2.386405348	5.574881961	8.783301448	0.466670143	4.841231099	0.527912051
18.21733923	7.93092365	2.595960874	0.291641615	19.51221013	2.402701535
2.424731007	9.066389487	2.615077065	0.318355168	6.140988895	0.832100712
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4.574092097	5.179919108	1.43799573	0.158521491	4.526553917	0.784710648
5.033894131	5.273089107	5.936953072	0.3340032	7.25948173	1.329778072
4.343526577	6.741080898	5.468765961	0.160140014	3.480319578	1.100893349

1.780122011	2.78597557	16.40176776	0.237838392	3.367458278	0.563825257
3.605073721	5.012343333	0.814652976	0.151081011	3.140198059	1.211911451
3.416167177	5.230899472	0.918283325	0.20508661	3.677749971	0.664029907
1.318045154	2.459178811	1.706614192	0.106482839	2.750872704	0.763513661
85.51792817	43.22266535	21.96264629	14.57458273	42.41500773	25.53496839
0.697591389	3.212879362	3.500102642	0.152531172	2.121974232	0.676568458
2.866747043	3.249904104	0.923137762	0.259015906	3.678827091	0.704737779
6.146769191	3.499043234	8.644859129	0.187766076	5.196457262	1.164871204
0.81799124	3.702620064	1.563742946	0.15338613	3.662803357	0.979974682
5.18084434	4.627717494	8.031729449	0.395799832	3.341560849	1.136156214
0.778669586	1.470199319	3.247191488	0.161805708	1.672092061	0.423184017
0.744479562	3.036998123	47.97781322	0.178026939	3.436455335	0.687301795
1.382640992	1.667812155	33.33092707	0.109048526	2.040617079	0.710868271
2.200787311	2.535568473	40.84672014	0.298877119	6.019395099	0.687301795
2.348645079	1.878209687	10.97024051	0.700607399	2.12723573	0.53894012
0.617066325	1.130604245	1.457401945	0.098011979	2.575002088	0.380402013
2.585854586	1.512682819	1.192231759	0.087078216	2.452596655	1.234589933
2.444089528	1.30385499	0.863232329	0.073615995	2.079260503	0.811985463
3.904505333	4.198493458	2.901992573	0.530610335	5.338591784	2.47543902
2.456885424	2.782735703	94.35088119	0.334686933	4.984882446	1.444911647
9.54480156	5.889998869	5.736050649	0.325551854	6.545214229	3.587349621
1.494144654	5.626127565	73.25625758	0.215595499	5.106332207	2.751563477
2.558517683	4.546209637	2.324912789	0.378406781	3.287483813	0.89889601
38.73715686	32.47529072	3.281370447	0.844866098	87.41053895	8.181346322
1.566351546	4.187735745	1.541952101	0.194020507	5.514576003	1.049816732
5.378115401	4.340608306	3.16793012	0.232775585	7.649107848	1.635843155
1.818847163	2.654368364	4.185535352	0.096963658	3.403602502	0.849446806
2.560932925	8.819131735	33.73978513	0.195210803	4.81627338	1.979086609
1.836025075	3.888009839	6.049627863	0.425059587	3.677177496	0.743098474
4.048310992	14.58680169	3.329104842	0.289825281	17.93187458	16.70139477
3.086712756	5.102053935	73.61773669	0.582419775	5.033837128	1.749819611
2.774639479	9.815891686	33.26293468	1.051846441	5.370735138	0.907512728
2.140296206	16.0642723	25.15459399	0.174601727	6.94855842	1.257787116
18.70706432	12.02965533	12.72289037	0.739219402	29.26589752	2.78671044
0.732374388	7.020073761	19.63668216	0.154817661	3.745106748	1.087161791
3.513134195	3.272662038	1.413102513	0.143561098	4.011785904	1.427574413
2.000319205	2.780183122	6.440209077	0.167034223	8.342363694	3.953660857
1.393881621	1.329702125	0.884009597	0.078943474	0.675348343	0.366821996
2.500903614	3.261709261	0.952483886	0.571224462	5.192854723	0.805452658
1.345391375	2.222544786	27.54170258	0.221507301	3.723121973	0.673134145
5.22110323	80.53391749	18.02866738	0.641416914	81.37319258	80.10452813
2.275205455	5.05910649	2.269019283	0.317567914	6.697242724	3.185426006
1.911595813	1.244464467	2.708487955	0.425969989	2.726362841	0.720139038
2.751694403	4.924701865	6.294438505	1.125238513	4.642963207	0.729078729
3.519824637	6.695458756	1.202821073	0.806006415	3.11838029	0.604283529
2.591788965	5.454967725	22.85633854	0.253903194	4.498598789	0.691586609
0.919718399	1.433918453	11.29270962	0.223552692	1.514278611	0.692122211
46.55827744	72.23222693	30.88248734	1.126554032	89.35031957	16.90576381
2.663640163	3.318568926	2.593717517	0.195737575	9.583530508	5.355718905
2.878139787	21.07890113	6.715277297	0.281559237	33.10157478	39.70777528
1.042602191	2.977799879	7.08054438	0.240932176	2.383049463	0.981615563
1.658165159	2.030051328	13.11310036	0.163390489	3.166101203	0.690388349

0.918315112	0.560889762	1.415892576	0.074768978	1.361873703	0.349434698
3.921219189	6.31895909	27.01931493	0.277523717	4.823759774	1.418920892
1.984119996	3.024841534	38.81266028	0.17044783	16.58268613	2.331591886
0.77425247	2.112185924	57.22415057	0.264547546	2.57339828	1.020899914
0.729767596	6.830220648	1.611312361	0.114466511	3.357846684	0.802852721
0.743882335	1.696351082	20.9711833	0.168402118	2.224945569	0.602980053
1.236813211	3.498031381	1.666651732	0.164527362	2.62802626	0.570425139
0.848869991	2.035553383	6.109053473	0.164146881	2.480251605	0.797035361
1.218210908	1.049975855	1.362413391	0.09794647	1.172967179	1.196772619
1.345064515	1.997167731	3.338792185	0.237315757	1.958075892	0.63231045
3.994455703	2.904002207	2.021496955	0.258061446	4.666499917	2.03206909
8.608373596	15.66073182	3.97853047	0.283564595	8.752849798	3.501522938
3.844042731	6.388232727	11.23217442	0.325424937	13.52121873	7.388593738
3.164129097	8.365183957	1.454541144	0.167129526	3.391051487	1.72421453
14.27353715	12.91279023	5.975119041	0.636035711	9.415451932	3.469688389
2.417939748	2.142975621	12.23611943	0.355501066	2.833118647	0.931606608
0.492169391	1.159769997	1.298116014	0.066336848	1.66412441	0.470662509
2.839097285	2.206390361	2.763791874	0.132171453	3.403913052	1.143715734
2.824710585	4.700954236	1.669552671	0.145745042	3.474321412	1.081504657
0.709066714	2.519548356	1.612979144	0.078146196	3.652291973	1.022052867
0.542589819	2.802036412	24.99481786	0.140226769	2.156581939	0.728007525
1.884992324	5.305980641	5.165796641	0.307430443	2.4822302	0.45752866
7.039836567	4.723410682	3.173999975	0.556332794	6.371559585	1.897422001
2.093549327	1.455729775	4.065148035	0.076741153	2.738038811	1.029170823
1.819784501	9.045197513	76.27663695	0.186602496	3.875967405	5.956287902
2.456398814	4.126525057	15.21472634	0.316828263	4.613372847	0.879703677
1.811584305	9.267048687	17.6079655	0.194502295	4.207796443	1.247170777
2.321792163	3.39436718	25.94910787	0.376694921	3.942409285	1.199725657
11.89953791	32.00849803	5.378904334	0.292706118	23.72525938	7.271618072
1.552507367	11.32451358	16.80301255	0.136886732	4.268773969	0.676088259
2.057549819	5.745753112	0.92599606	0.116370056	7.055233148	4.388149427
1.848515461	2.888638033	2.50768109	0.143413248	2.172409872	0.651891209
0.76572669	3.952068274	19.89881605	0.111989692	1.897820134	0.60687302
0.845432198	6.062897028	1.220083069	0.127180847	3.031796486	0.483807726
1.221742972	1.38490927	5.426619872	0.119420148	1.727275722	0.655245505
2.049062402	3.694491201	8.985632132	0.23311054	4.310756133	0.966029155
1.660513731	1.958297509	1.294837189	0.078120308	1.908817656	0.511496624
1.098913563	7.585565221	161.2307318	0.196724452	4.767614945	1.487294016
0.658589581	5.596773516	43.7897885	0.174251155	2.978440447	1.014385736
0.814752324	2.702633751	2.792882312	0.194982336	2.778242338	0.884984767
1.250038798	1.93284583	6.009124208	0.107179685	3.386524765	0.773966665
2.291733864	12.42422146	15.63220357	0.20072333	11.10290297	6.896243495
1.609470027	2.992301905	3.260888729	0.092027148	1.172062473	0.691400464
0.928851332	1.861928331	15.76970448	0.114012622	1.555546492	0.589023448
3.358046086	187.0363157	20.18071647	0.40235792	122.9209342	48.55750241
2.240047271	3.181214102	13.40813248	0.14005513	4.474591857	1.062617824
0.76988004	7.83439878	3.293264817	0.164261419	6.633366318	1.316850543
2.316840147	3.90342714	4.618759037	0.257578416	3.991487776	1.379183083
1.437038048	2.943013439	1.711982816	0.136363977	2.774745643	0.547509748
1.070861895	0.843844157	2.122140887	0.00061446	0.990306773	0.362191554
1.47665245	3.459527711	1.82432515	0.085155042	3.051214509	1.08604103
0.839551527	2.189949435	8.41726647	0.11544504	2.28064869	1.148304101

0.472848089	4.480885635	1.718112736	0.041643219	2.107847385	0.519790261
1.983491594	15.15558921	21.95702406	0.165276053	7.031839936	0.897844458
5.097160011	11.31879107	32.5623207	0.313482036	11.97837339	3.470854159
0.715600854	1.439713366	2.022834446	0.124851057	2.852833893	0.976171586
3.127574955	5.379951455	18.42430901	0.341012869	6.413247412	3.106236652
1.688982155	23.47542615	11.62546719	0.08540517	7.586900137	1.734023062
2.145662901	8.629146595	250.1342058	0.241441265	7.058745543	2.341577285
0.691020395	5.21306172	4.752513612	0.183901141	3.283868468	1.471660538
1.458189353	3.594664057	47.90686042	0.163171198	3.395815769	0.939655554
1.367869192	10.73931204	6.832145267	0.243814859	6.529613335	2.373566981
1.931950551	20.40353692	79.5375353	0.270558599	14.86536063	7.803636877
1.423082095	20.57456915	10.8634671	0.256876784	7.118330877	1.117946708
7.782335264	10.08364135	8.751446993	0.887359204	5.182003934	3.09120609
0.601480516	16.29864229	2.596308063	0.177707814	8.563789474	5.065975005
1.609999155	24.41682412	151.2496486	0.418825817	19.17293626	8.499758887
2.218928124	7.65557212	6.370951115	0.293305424	7.752956039	2.317718951
4.281619082	4.534802261	11.60279383	0.107569017	3.896558165	1.396401439
191.9118535	51.39916626	59.30613561	0.901117422	27.72717617	11.31251326
12.2372266	2.492848162	38.6742967	0.291427451	3.37728959	1.050975359
34.15203457	28.31132036	3.104532981	0.667875267	15.74246666	4.77118784
3.410853138	3.826400237	8.318825696	0.138763531	3.669459178	1.802311483
11.76724664	16.98445186	24.03567245	0.357043836	13.36297238	3.742762169
6.0209399	10.06058758	5.894635826	0.323531782	8.758652178	2.202112681
10.74059614	8.851160953	6.072641351	0.313107378	6.250382298	1.626963371
13.57247817	14.2426374	17.19921974	0.405844389	8.735737439	5.279238281
9.261899617	13.57777779	16.55513998	0.342184916	9.674721627	2.564928719
4.490818508	10.63280268	1.486561904	0.237658926	6.505645584	1.776307428
3.289963475	5.047949673	16.77555699	0.253498605	5.280230973	1.053607148
12.13570331	11.53624616	2.320464149	0.262341315	5.520219926	1.817452492
5.052847576	7.233129962	5.106307583	0.376694921	7.033460621	3.789670986
3.262723216	3.263107343	1.661742365	0.204540463	3.256538564	1.136688568
2.462936783	23.16365059	11.87739372	0.265863951	11.35641606	2.573519723
2.145660093	4.234234839	12.18940002	0.222449037	6.257951383	1.461246273
22.4110749	44.71346522	13.76933593	0.585180411	106.0740725	14.13775356
1.226079823	3.392214609	40.67337748	0.168402118	3.473615623	1.068638946
0.450324153	1.973071926	6.577785008	0.073858076	2.23198628	0.53374935
1.331554835	5.652795817	2.585621615	0.115019208	2.185643635	0.912018395
1.27980589	2.042469716	1.027465299	0.118851863	1.538920711	1.214074141
0.893062673	3.260781867	6.606849255	0.136273024	3.299495479	1.721585466
0.455285493	2.07975716	1.73142654	0.073031699	1.368051932	0.558635924
0.534252303	5.656066744	4.330758831	0.136173979	3.147733305	2.321112326
40.16266477	92.52338622	8.836268134	0.859584008	155.7070204	18.68153829
1.544304553	3.558080833	6.355431385	0.166878586	1.268613983	0.337996703
0.87998067	1.860734462	2.315092611	0.092344185	2.16573885	0.728543426
0.351287423	3.479153342	2.569071751	0.062695032	1.933172086	1.109891548
18.23893937	24.78844274	5.627247688	0.431566848	47.14072081	6.001391859
0.453192373	1.956923645	15.38315809	0.116958474	2.719602504	0.818769259
0.683581566	12.7759854	5.917189807	0.10112818	4.542692387	1.424385988
0.809264992	3.837845606	4.722729894	0.078154809	3.830052987	1.133895128
5.903067319	8.527424776	6.370172872	0.196531773	3.969310794	1.146795318
14.10013748	27.43602832	8.073170968	0.448341684	24.27433486	17.58205855
3.488753085	5.444959995	1.3142993	0.19759551	5.389735951	1.232817457

2.292344969	3.859044717	12.03448877	0.110663918	3.304108339	1.03817533
16.98289166	17.27648602	33.93557238	0.826601606	13.67155401	4.436979361
6.05285983	6.236251423	28.37133194	0.244949048	6.380341331	1.826016346
2.245135955	4.709425201	57.16361816	0.168471208	4.492576476	0.764262072
3.492078488	3.20414134	11.99422135	0.199824118	2.629907899	1.847950711
3.216220827	2.752835355	10.32649938	0.138763531	2.880119884	1.049271499
1.800253923	10.05469022	7.031323992	0.174823053	4.844934722	4.087905495
5.931068184	18.49276517	7.11832268	0.403777373	8.397115835	2.200429588
10.34654681	16.71511071	10.07444414	0.344246377	10.83152815	2.169740973
11.42883584	21.32622129	6.602280409	0.31428111	12.13715577	3.28462051
4.333395855	10.30185022	2.67671477	0.239697625	7.890957555	1.39995731
12.39792746	22.09622766	4.748536986	0.344703507	43.20892292	5.260805251
3.003091532	16.88457565	11.72914935	0.189059142	6.935658983	3.351893505
2.411642314	7.111104741	3.636729438	0.148467837	3.471708906	0.841370512
2.774700514	3.555427221	30.06414851	0.198260957	3.325216019	1.554550853
2.404735608	4.341740519	19.78397232	0.226355812	7.424069403	2.660151794
2.842234469	22.40425111	2.085368095	0.18188973	15.72920384	5.670004547
0.938888087	2.649845267	13.63980859	0.140686705	3.302096404	3.559895038
2.716507418	236.9874168	45.41545426	2.643938711	223.0848762	176.6149547
2.207944129	4.139300375	8.520192855	0.128271858	4.170520689	1.116929273
13.70529819	28.76174336	13.62090951	0.619696988	17.38153391	6.933142706
1.313377522	8.249869061	1.463656803	0.145949021	5.033940586	1.224378513
6.011418711	28.01582645	7.340754693	0.317077868	17.32279262	7.51292307
3.604703262	3.698870551	4.862862063	0.227981142	4.765815493	1.547981231
2.862015379	11.31777069	2.765361823	0.137812587	9.295131984	4.250357321
0.552828016	1.696351082	1.593084149	0.209862005	2.161227137	1.055452146
1.619608693	1.871290461	0.857215441	0.143764123	0.904806271	0.531384902
1.721574695	4.76997755	2.970818314	0.22112585	2.846164385	0.740237557
0.758968914	1.438433834	11.66381915	0.151159212	1.156876572	1.166637052
5.625872935	74.71492683	12.90841407	0.627338245	81.76194239	117.5411238
1.530863842	4.481478639	5.68627309	0.190443054	7.138810995	4.708063867
3.122428552	7.753880518	27.30775644	0.343596877	3.390314544	0.705637345
0.024991732	0.802668202	0.16637527	0.008708855	0.222393146	0.170724852
0.03672264	4.517273576	0.025702182	0.053320687	0.923478429	1.141116981
0.079068322	0.120616178	0.115435655	0.089202959	0.068227364	0.089714243
0.084794292	0.037271333	0.098997449	0.098119507	0.042949674	0.066950721
0.088229874	0.000420513	0.046395191	0.112485056	0.012232482	0.013243035
0.095048987	0.068370014	0.0640714	0.135854169	0.021907172	0.013694904
0.053457106	0.013664739	0.052141522	0.072889388	0.047605766	0.03265093
0.070362193	0.004081333	0.103837662	0.06920837	0.010642034	0.023997092
0.05866819	0.009413476	0.12255029	0.085229023	0.000378254	0.053790794
0.033480651	0.009413476	0.12255029	0.086622716	0.000378254	0.044779584
0.061415922	0.005955309	0.002265063	0.06763365	0.029900556	0.000444433
0.177726557	0.070509543	0.085182756	0.082353539	0.080771321	0.080394175
0.023788281	0.019316332	0.070114163	0.041900268	0.015542632	0.021066151
0.016267633	0.021721382	0.104018497	0.039437895	0.000373169	0.046750844
0.072058156	0.02057235	0.059057444	0.05139566	0.008638931	0.023349529
0.061947424	0.037348099	0.233503848	0.068048859	0.030929258	0.110519993
0.066280595	0.033309493	0.148726156	0.103378541	0.101229522	0.709252584
0.000563456	0.106788511	0.004337981	0.009902477	0.078902865	0.104517662
0.000563456	0.004307658	0.004337981	0.023584292	0.022468371	0.000863551
0.000563456	0.000845467	0.117749251	0.000430451	0.016266778	0.000863551

0.030016222	0.032158248	0.0034623	0.027378084	0.000582191	0.033332102
0.000444669	0.005992058	0.071350532	0.078973937	0.037974942	0.012979236
0.000444669	0.000652019	0.0034623	0.000338546	0.0171486	0.000660397
0.015899911	0.000579497	0.003170829	0.01664195	0.024418318	0.020214907
0.000410142	0.000579497	0.003170829	0.016161156	0.024418318	0.013351262
0.000410142	0.013393932	0.003170829	0.006545284	0.01503158	0.025117511
0.095106248	0.036661198	0.003077022	0.01490232	0.047093052	0.028482421
0.051967249	0.025207464	0.073466409	0.011602583	0.07586021	0.015458271
0.08801043	0.136204138	0.211808661	0.148473302	0.08436913	0.157324553
0.075794978	0.029929096	0.002722568	0.059176807	0.03131625	0.071144196
0.026661716	0.000499084	0.065003532	0.047989774	0.032821296	0.011868927
0.080755767	0.31916398	0.67340113	0.23382392	0.245560412	0.211822178
0.026092462	0.041885178	0.107181623	0.038280839	0.030296525	0.033269579
0.088687952	2.252797744	0.577349231	0.046766797	1.134689886	0.308457467
0.009181877	2.209861912	0.449804135	0.000237716	0.342963582	0.227980413
0.055233526	2.966146059	0.3612702	0.020770727	1.07486703	0.289163588
0.0576312	4.68442648	0.405390357	0.022553051	0.625051646	0.257292976
0.04870043	0.644629373	0.273540169	0.032050775	0.417533395	0.558635924
0.090771955	1.699396362	0.326851281	0.000430451	1.636122823	0.653604305
0.032945994	0.530560687	0.036234901	0.000430451	0.349292312	0.253695538
0.169112049	0.69592508	0.11943803	0.000338546	0.504201012	0.199368633
0.052940309	0.469700424	0.332398797	0.048606777	0.40445408	0.269429203
0.077915519	7.047667588	0.631553692	0.061098639	3.667703189	0.373622406
0.108098061	1.45360591	0.881329021	0.047790006	0.876775981	0.759746264
0.016617901	0.352432974	0.140630416	0.012231223	0.46476957	0.161528473
0.118762014	0.961979141	0.810717837	0.188378556	0.943979679	0.608966443
0.085682503	0.713285783	0.386900841	0.040681122	0.493419461	0.263043328
0.038526604	1.252836029	0.373338697	0.013797949	0.421098944	0.444120913
0.203894476	0.161255401	0.075983961	0.219153385	0.099584498	0.162628651
0.193816768	0.094786164	0.039819909	0.151618793	0.071747042	0.106786885
0.179158284	0.099607767	0.105572731	0.165654099	0.071107101	0.087224483
0.157302642	0.034828093	0.002433695	0.205987249	0.06696772	0.064381669
0.181721101	0.095922306	0.229101385	0.163946149	0.103579416	0.098172845
0.15435096	0.073561025	0.066059713	0.110474519	0.04021302	0.03100258
0.158731415	0.197191931	0.146607335	0.159094745	0.073568961	0.221759741
0.066224452	0.088605495	0.133653541	0.1629274	0.03789618	0.033605684
0.085458573	0.078922628	0.048528612	0.116935536	0.059422858	0.134531232
0.152109348	0.263257134	0.124737813	0.153586474	0.084411993	0.608558285
0.083483429	0.330942117	0.002305495	0.103459594	0.047095114	0.241375701
0.036009335	0.062263656	0.019257662	0.061071601	0.031925651	0.23956692
0.084025961	0.101965801	0.063948465	0.128436157	0.022070282	0.186577092
0.112501084	0.069035626	0.001995536	0.15302686	0.067222484	0.394605411
0.144277671	0.197649704	0.10470697	0.179173938	0.341564977	1.888658546
0.012591256	0.084630489	0.139013864	0.000430451	0.029290123	0.067398284
0.013979079	0.092247309	0.096484638	0.053403633	0.054096494	0.262099926
0.000563456	0.06870441	0.004337981	0.031302239	0.000762796	0.076503037
0.026365413	0.000652019	0.221270379	0.052210313	0.036081638	0.023155669
0.023444766	0.045508345	0.060035827	0.045036558	0.008155406	0.000660397
0.000444669	0.000652019	0.110952001	0.020756156	0.000582191	0.01726405
0.000410142	1.41728647	0.124926523	0.058230599	0.17033942	1.286067275
0.000410142	0.035700541	0.070525043	0.037316076	0.01417824	0.033942199
0.026675402	0.125401586	0.018714109	0.051259091	0.041485113	0.429582346

0.054562076	0.115075218	0.214245183	0.080189975	0.080317093	0.101510693
0.054886429	0.055163382	0.003077022	0.061805725	0.024403463	0.023830939
0.273956751	0.424373002	0.405324512	0.268534137	0.254815618	0.552913408
0.122213695	0.143970391	0.058330571	0.111715908	0.085497915	0.233835894
0.020689718	0.003360335	0.236276182	0.067167545	0.035831389	0.020276766
0.094362942	0.418141079	0.770031405	0.252706149	0.391899111	0.466124364
0.038526604	0.095482885	0.113962695	0.041961273	0.058817292	0.07222651
0.140413204	12.39656682	0.746182924	0.081047944	1.890728141	0.514804277
0.142931958	0.994991003	0.377925078	0.032442905	0.668012808	0.35116071
0.170276696	4.95947723	0.564462913	0.052796397	1.419788128	0.24457497
0.078867424	2.120026318	0.68347775	0.052173847	1.063714434	0.388701435
0.044619459	0.66014682	0.263700524	0.007788215	0.34516349	0.36701197
0.000444669	0.741315411	0.190154939	0.000338546	0.407169191	0.12974041
0.068767165	5.187103382	0.87877561	0.000294967	0.819730991	0.54234224
0.118459691	0.945470886	0.380163024	0.016080797	0.646341306	0.419206932
0.123570967	1.718476015	0.380856991	0.14228048	0.515564881	0.263683724

Heptadecane ng	Pristane ng	Octadecane ng	Phytane ng	Carbonyl Sulfide ng	Dimethyl Sulfide ng
4.389513901	4.329133838	2.962584109	3.295644855	6.589323543	0.599442417
2.397144743	3.1674316	1.491162048	1.613230233	5.991069416	0.649654516
1.417276084	4.222391115	1.581145089	1.672267358	5.844174846	0.04280177
4.042591447	6.602905878	2.732089552	2.689792234	5.002017666	0.152179872
0.676553902	1.211596918	0.909695698	0.958655133	6.628787654	0.141438143
0.481392703	1.351992066	0.56874624	0.903868169	7.111532431	0.25829165
1.361370586	2.493625256	0.581222513	0.953211503	3.907193428	0.1816964
1.064657283	3.515432603	1.26609638	1.493389425	8.050795235	0.522259555
0.619328271	1.161305213	0.237029973	0.258630102	7.45806124	0.067265871
2.188317891	3.596055511	0.451062334	0.520373494	4.957663407	0.295678363
0.92140916	1.641594209	0.88655863	0.948148846	7.688920725	0.297066505
1.917501621	2.425227071	1.142946847	0.866574897	6.97312115	0.147147193
1.77050824	2.630229008	1.264392959	0.937715243	4.77009037	0.077677969
1.130867856	2.37716685	1.137762087	1.458309374	6.538343546	0.105380673
1.866484711	2.804591023	1.957141548	1.686113597	5.397314689	0.206574766
1.103359495	1.30788464	0.924403645	0.641960839	6.480147213	0.137036811
1.129230862	2.749464875	1.19491992	1.179571692	6.987882067	0.001795659
2.463346732	3.574680143	1.678280515	1.688387043	6.331148997	0.118164395
0.884529071	1.473999292	0.488079927	0.454832247	5.234585524	0.102051801
0.64222818	1.481821409	0.995294623	0.915841685	5.22584881	0.081240246
1.674774351	1.809404344	0.558110561	0.734671171	5.487030992	0.075999447
0.878430832	1.399484587	0.521240433	1.310301423	4.736119157	0.04631875
0.594010143	1.153683601	0.324499212	0.82725615	4.451405757	0.338449469
0.467686064	1.164824088	0.392186685	0.657174662	6.958005584	0.132547573
0.309517484	0.751836119	0.216901535	0.212599932	5.513852997	0.22948101
0.474433846	0.707489048	0.412921802	0.307294711	5.497326478	0.23677377
0.734341534	2.603987127	0.43762014	0.657095048	7.18427939	0.165367508
1.212759424	1.829615107	0.589257401	0.680398945	5.937344945	0.059694261
0.886927546	1.954856146	0.48606569	0.500858195	6.796936487	0.327605624
1.28680694	2.087631549	0.484961124	0.852547415	4.683248701	0.515729151
3.605881796	2.365886657	1.552987253	1.726564801	5.188791274	0.096318445
0.876371061	1.267358682	1.433307729	1.326555246	8.130552812	0.173987094
0.503434232	1.837063384	0.332612987	0.504042646	5.468331534	0.001854233
0.437418285	0.624001419	0.262799064	0.462439737	5.023144055	0.044374021
0.391150697	1.100716536	0.42302774	0.709977046	5.963728128	0.046222707
0.502305755	0.670457264	0.292555818	0.377673809	4.507663815	0.210755801
0.800788117	1.623019165	0.334901968	0.782782137	6.075303937	0.118321478
0.356167887	0.682179767	0.414444061	0.364152864	5.27195811	0.061012199
0.69922512	1.179734889	0.457934702	0.5591665	5.421469694	0.064709572
0.588070063	0.799404796	0.394987722	0.332950682	5.72830317	0.057314826
0.432340135	0.819376467	0.282827648	0.500402391	5.569865521	0.068406944
1.175779719	1.311368294	0.760402245	0.896665364	7.606054662	0.109212954
0.871290406	0.865138072	0.835970536	0.821778395	6.991497111	0.182614772
0.392136114	0.398076463	0.548442403	0.461072828	5.162284635	0.064455748
0.43398738	0.756595585	0.536922847	0.41489253	6.366094427	0.610493665
0.886574132	0.957810717	0.267470924	0.463296012	5.870539006	0.241084615
4.56151435	8.041911804	3.230031151	3.21997503	4.023810356	0.106882436
1.039703503	1.142111349	0.751143834	0.945630397	6.112697652	0.001984168
0.771583209	1.326869223	0.662551428	0.466365926	5.366220448	0.415289425
0.265488451	0.627629879	0.409393468	0.275636803	5.346305608	0.131543489

0.972688252	1.434396137	0.745026233	0.781772487	5.866580805	0.001884749
0.338321196	0.679819513	0.365599595	0.396646499	5.252357934	0.177686312
1.475203737	2.277772539	0.581916688	0.640325941	4.328128304	0.018649796
1.24195056	1.773435158	1.406796443	1.306310435	5.213603179	0.003116066
0.311593017	0.76380312	0.307434195	0.276266718	4.536673526	0.120170165
0.632080695	1.042538189	0.362941987	0.322549955	4.196367307	0.125716224
0.475222289	0.614883917	0.441911834	0.477000755	5.761775913	0.373440207
0.655778727	1.296525751	0.237620272	0.440078173	5.268610835	0.001854233
1.547316469	2.317853169	0.468727072	0.603774108	6.699883528	0.325837833
0.796556002	1.550015579	0.470109419	0.321283819	6.399834841	0.06266546
0.503170085	0.683503002	0.266443658	0.214777907	6.695063469	0.001795659
0.869870037	2.483785974	0.417689163	1.032308443	5.931150904	1.074371654
0.460842075	1.475617635	0.251561003	0.509987167	5.26772425	0.035631041
0.769923517	2.151389076	0.263077563	0.705629159	8.18629925	0.256510365
5.090898523	7.351276292	4.859624291	5.280275658	4.781295084	0.176352546
2.091328886	7.820400886	0.438705092	0.790897903	7.745046011	0.256510365
0.3287127	0.650108641	0.400154192	0.455409081	4.371159624	0.085069971
0.516379733	1.027868946	0.590661624	0.467147602	6.495557837	0.05449989
16.34644358	15.11012175	9.435753748	7.902456671	5.673240899	0.420926762
0.398774444	0.587385888	0.309718035	0.375691425	4.529797164	0.120268816
1.401052282	1.149871759	1.308871845	1.293959943	7.628085662	0.971703409
0.515847487	0.860188144	0.369236685	0.443198391	8.681714845	0.136808343
1.157114859	1.028067339	0.845808675	0.977138013	5.442245499	0.063408389
0.420113745	0.684224046	0.469600753	0.458050182	4.132512384	0.094086898
1.196182597	1.371407049	0.346662061	0.341120098	6.80726835	0.083860645
1.392747067	2.174808773	0.416464558	0.872832718	6.794043936	0.547671356
0.670869491	1.903775399	0.303865377	0.602614128	5.162663955	0.527265665
0.439880434	1.235617263	0.278912832	0.70433065	5.994741493	0.238697516
1.187923287	2.019062587	0.703106099	1.617182336	5.286635104	0.479170973
0.755127065	2.327220164	0.428148246	0.637241029	4.046923621	0.128257854
0.322954135	0.744478472	0.345639671	0.477656997	6.87958545	0.399609084
10.34324082	9.970328984	3.298229961	4.314271705	10.00111414	0.421369651
0.646585478	0.946014041	0.419024603	0.396720614	6.33166296	0.636997093
0.537940702	1.09829593	0.531562031	0.645369897	5.515581748	0.381465406
1.042675959	1.932229903	0.391965759	0.575016331	6.129330923	0.15269976
0.413483366	0.977147476	0.293774528	0.481733202	5.213644712	0.251257826
0.550247519	0.919147809	0.469245896	0.514518904	4.466242507	0.201284722
1.684266435	2.12694307	1.499344651	1.195602836	8.381808393	0.335934475
1.585101868	5.877697988	0.361494274	0.708739442	5.429156608	0.003116066
0.75824926	0.721862732	0.35391962	0.355502383	6.995408138	0.074571223
1.529031393	1.980387394	0.450117718	0.735267126	5.855611232	0.118065667
1.445148906	1.966879249	0.658792793	1.189450574	3.510176079	0.044374021
0.572271374	0.722557277	0.342341157	0.422916973	5.431511517	0.240334784
112.3990683	66.00259316	70.10107624	47.87343609	5.530983849	0.06954409
1.222058055	2.351964561	0.661823889	1.382917016	7.206505747	0.225524544
0.363432099	1.386795745	0.264996989	0.531196144	7.763956864	0.457795555
0.65936114	2.823172595	0.377763299	0.694375416	5.355974898	0.001786629
0.594758395	1.47864376	0.149387398	0.243670297	5.841791737	0.120678173
0.468453873	1.22368527	0.234933261	0.579306957	6.429433516	0.257176278
0.377084645	1.096685872	0.432024219	0.455025496	7.164749572	0.573693624
0.535637129	0.730722869	0.255481042	0.239450865	16.74626406	1.14540308
2.534486483	0.989825798	0.446440974	0.633644746	5.679049394	0.298784471

1.163600837	2.324165627	1.272071114	1.465739627	6.060750496	0.714068259
0.373577678	0.678863475	0.232405008	0.36932508	4.598973554	0.155476044
0.768715749	1.004175726	0.281960413	0.437877824	4.706509862	0.003116066
0.434032851	0.810258965	0.413871816	0.555526246	5.196086559	0.449236352
0.529131633	1.488501175	0.44183053	0.478280354	4.940143696	0.075679792
0.344564533	1.699179929	0.408130033	0.354804075	7.706944696	0.634833715
0.38076522	1.064932476	0.594831786	0.519334642	4.881776064	0.04280177
0.826876817	1.969932472	1.255282396	1.181235847	6.213057546	0.200517655
0.539469653	1.276283854	0.381178442	0.695302625	6.337174071	0.012537389
0.967375338	1.965265499	1.312467374	1.3588721	5.46719437	0.199158223
0.851612072	1.950014897	0.513616572	0.669967417	5.1553186	0.285631406
4.651599524	2.636291996	0.459733942	0.714879435	6.101966255	0.073379047
1.153062723	1.575765118	0.33482421	0.804703471	8.250933575	0.437614577
0.931040439	1.816041124	0.458379214	1.24104762	5.740495579	0.25116651
1.002556624	1.895074479	0.659919002	0.706061995	5.344418266	0.803364819
0.848903055	1.057338451	0.418185918	0.496069065	5.475152152	0.108808772
0.408948703	0.480882743	0.184612165	0.291234806	6.946802708	0.162221074
0.919157546	3.449853568	1.065650682	1.753843473	6.465079031	0.316523281
1.022082473	1.980205266	0.629032255	0.39601502	6.414238907	0.415289425
1.98058562	3.195434695	1.318930463	1.319574277	4.788699299	0.879218429
1.23372689	2.6638515	0.41906164	0.707343248	5.478780419	0.003116066
0.901789677	1.898649956	1.215915177	1.596718767	6.212282373	0.19262757
7.887423285	9.377915356	4.518464058	3.273547651	5.627651851	0.074571223
1.534264638	1.619235452	0.990190506	0.987280127	5.422953631	0.114958921
5.059228514	16.39458164	1.69008848	9.803546558	4.757684417	0.167773602
0.83960654	0.853774359	0.509422204	0.30770322	5.165921017	0.06954409
0.644680546	0.888553911	0.591684939	0.317818306	4.963732371	0.045001283
3.27266475	4.240037968	1.987007637	2.08014218	5.987031572	0.576762113
1.240511031	2.495922503	1.454657708	1.09530061	4.039280953	0.145217747
0.949441239	2.00355506	0.772382584	0.665763877	6.863765542	0.298983509
0.189275269	1.229576448	0.31114851	0.411913618	6.629840792	0.146750233
0.714871571	1.738336538	0.318904343	0.491841786	4.995523594	0.330178198
1.263775913	3.123091219	0.941411994	1.32347534	4.25385436	0.41927178
0.992692323	2.678519802	0.401276274	1.07180864	4.989314468	0.178133831
0.728411249	3.628370218	0.577863517	2.109750007	5.080716925	0.117570145
0.626069122	1.805527512	0.35185104	0.504793131	5.29609053	0.228009807
0.824333179	1.843966967	0.53098904	0.53442754	7.182063108	0.134525807
1.076942222	5.167064579	0.501635068	0.824801199	5.635047749	0.241350411
0.461497265	1.130994173	0.644909758	0.576973183	4.72313707	0.095840358
1.024434579	2.273546232	0.663874553	0.997124426	5.510603038	0.481058351
1.415276154	1.862617354	1.254870486	1.249215172	4.399520919	0.960231952
1.429388789	5.177716118	2.241480862	1.790526309	6.320473202	1.016605317
0.602938525	1.307618105	0.554708634	0.707720363	5.524140554	0.163804894
0.783870139	0.990532014	0.575165141	0.679618333	5.138588465	0.06663497
1.629210642	4.719461104	3.795842124	4.40586091	5.967264807	0.080784715
1.039349243	1.228518906	0.791734587	1.110843288	5.742406914	0.003116066
1.326430076	2.269077067	0.27590069	0.62217542	5.588883249	0.121172413
1.010920364	1.489686841	0.878294596	0.704030686	4.276290976	0.071589324
0.728076719	1.114620996	0.954269733	0.566097693	4.718859456	0.06954409
3.852921251	5.157743861	3.007170345	1.979451095	4.151607978	0.204529532
0.630859152	1.02776907	0.678383002	0.709863981	5.10082888	0.111003242
1.596854703	2.326989742	1.213811993	1.26444359	6.24920799	0.155760449

20.99107306	13.19256775	5.980604513	3.536431023	5.911803845	0.264968032
0.381178132	1.121297172	0.385033024	0.333507892	5.495847268	0.151991032
0.468971749	0.906568693	0.28298259	0.389457609	6.783023591	0.324937399
0.841123454	2.602130647	0.393605261	1.15829046	8.285096645	0.461198172
0.534234261	1.254892448	0.280533379	0.474714321	4.72883124	0.002628261
1.203952777	2.525891167	0.467016633	1.217674462	5.27823028	0.315292766
0.402478292	1.437551111	0.336495628	0.236434646	5.690066637	0.491639967
0.871443619	1.743895997	0.30482509	0.35892731	6.66292497	0.110445006
1.306294903	2.712235867	1.635947402	1.664361489	4.683589009	0.080163163
1.448505248	1.486131247	1.325960014	1.381719407	6.007348728	0.001786629
0.465766543	0.943454859	0.419863287	0.557059041	5.571904265	0.276958612
0.767271015	1.724907447	0.880426048	0.706340682	5.250050547	0.171004844
1.001305539	1.656995712	1.318380497	0.544533599	5.95868694	0.018796759
1.206330759	1.627127125	0.753847068	0.538280185	4.015330462	0.110873255
1.303159113	1.720820167	0.445999933	0.707904036	6.242473411	0.892583914
0.423863572	0.328629601	0.332211163	0.36240292	4.484988774	0.120268816
0.666522484	1.162749197	0.364848252	0.29556956	4.808604925	0.077049236
0.331347412	0.689567896	0.389105548	0.3530228	5.342986468	0.392740079
0.789681646	2.191953686	0.458790348	0.811541754	6.627862415	0.204061006
0.800917228	1.341079452	0.413331444	0.537156651	5.354276417	0.630220532
0.888089848	0.627556077	0.333323774	0.44699597	5.453034636	0.036095851
0.939231117	1.651473273	0.425605348	0.48875871	6.868042405	0.258198535
0.659891302	1.095058887	0.334232952	0.607802033	5.781701991	0.313724206
2.177953693	3.38383659	2.942936152	2.791162656	4.687900933	0.003116066
1.017668659	0.855773002	1.208340524	0.830906409	5.236864341	0.003116066
0.638632246	1.067362823	0.35240469	0.517460877	4.900352873	0.003116066
1.712194946	3.951361069	0.367553996	0.539799979	5.001151239	0.003116066
0.882351912	0.865048173	0.377401046	0.439972115	4.852279807	0.003116066
0.838592121	2.227379313	0.223886385	0.361552682	4.899294906	0.314282241
0.753392052	1.17148572	0.590695605	0.836865919	4.653828126	0.001854233
0.857776243	1.174524888	0.243342725	0.440078173	5.965959644	0.177479445
0.652393294	1.873533393	0.340624421	0.316309518	5.739460751	0.053617453
1.314864245	1.184575321	0.545051924	0.387704356	4.354919894	0.06954409
0.52360538	0.920171685	0.67761544	0.538970871	4.553738729	0.00205137
0.579872677	1.005934897	0.509422204	0.528855785	4.449274595	0.132946343
0.552718486	1.749558037	0.514367731	0.952598469	6.70868614	0.032815689
0.758742988	1.323281744	0.367898005	0.466928609	5.864527691	0.075613179
1.303882754	2.354095324	0.944347526	1.823391731	5.493330577	0.108424588
0.770932778	1.818630824	0.952548449	1.157937679	7.738606291	0.282870915
2.134088302	7.133558035	0.564569783	1.096779987	7.255395354	0.001795659
1.681411342	1.387750044	0.513883734	0.558009849	6.552871722	0.168292466
0.972502141	1.402368561	0.381639224	0.694054509	5.232175494	0.059084883
0.947108984	1.235538459	0.398887186	0.586921383	4.736589063	0.110212227
1.195585545	2.412936312	0.904751175	1.337166288	5.411110438	0.146947188
0.68884426	3.159387652	0.376460788	0.566060799	4.975686973	0.068138248
0.534622729	1.141122955	0.48504245	0.561112864	6.081027599	0.807090906
1.531429905	1.786223429	0.339314429	0.700035632	6.235312433	0.539810157
0.441935497	2.71586125	0.4175914	0.763196382	5.153208529	0.172789976
0.229030993	0.825948954	0.297147384	0.360658655	4.679386598	0.099757296
0.245882508	0.973864592	0.650801725	0.554569302	4.770789054	0.356262317
0.70455503	0.687536676	0.655533752	0.766496316	7.553794909	0.340262082
0.389753487	1.2476776	0.312092274	0.532893201	9.570312626	0.330370915

0.298768163	1.107562394	0.306640822	0.398638538	7.099569201	0.079135271
0.410100416	1.132514417	0.385057863	0.606157889	6.40906465	0.280915079
0.554832345	1.497197829	0.309995562	0.400940046	6.196210002	0.280915079
0.277269521	1.277108191	0.246255507	0.33995007	8.272815873	1.347182888
15.0683352	17.37052316	7.887933231	6.469634437	6.448783938	0.356087949
0.421903484	0.300333045	0.41248076	0.399923403	4.405329414	0.171004844
0.475860218	0.901620437	0.507885964	0.320146527	8.096594655	0.151311618
1.573887773	1.041276407	1.24469886	1.101768027	5.114355558	0.307577171
0.998978501	0.922438288	0.423606432	0.394595813	5.134515231	0.003116066
0.801610428	1.549671676	0.548588213	0.904206589	5.001151239	0.205054554
0.702178785	0.667371107	0.314531423	0.33106899	5.257024014	0.003116066
0.408642102	1.239215737	0.467090626	0.269506245	6.252709474	0.072104317
0.373095053	0.991306509	0.302283988	0.335030827	4.950619779	0.046222707
0.713895331	1.692920015	0.392126496	0.798383228	6.523838691	0.151597834
0.972880972	2.766614446	0.371525666	0.3875545	4.917147036	0.183025504
0.453781212	0.580584742	0.270238252	0.270546318	4.672796013	0.046222707
0.704464549	0.625731163	0.775073202	0.400118325	4.933404074	0.00205137
0.258847652	0.686595379	0.337561204	0.297588134	5.104141153	0.11044877
1.805695934	3.030262885	0.61683533	0.641960839	7.792126868	1.274186894
1.045082651	1.783732141	0.933311075	0.76793964	4.872747481	1.62801237
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0.646233087	1.001821203	0.639216509	0.493107809	6.511901218	0.046552865
0.704739449	1.290171445	0.280267126	0.359559381	7.727761158	0.107422666
3.170120665	3.07326502	1.103685032	0.7144440406	6.680603291	0.050133442
1.406388736	1.88075952	0.586687331	0.751883891	5.946749274	0.068036324
0.969939819	1.904514609	0.390854869	0.627072276	7.77596175	0.175453619
0.453044589	2.056159088	0.286248203	0.405443243	9.965699293	0.400928984
2.730240095	3.083439653	1.525956883	1.479906182	8.022812429	0.125787037
0.346216072	1.192975003	0.386665831	0.495647889	5.587316133	0.340659796
12.25468217	15.76553544	8.484163717	7.6789065	7.224939434	0.314455801
0.612505708	1.592717515	0.348492044	0.443330382	7.796525555	0.375856451
1.680727342	8.796354061	0.453100791	0.642002228	7.86586535	0.105101151
0.6449757	2.53821747	0.584101653	0.619061906	6.490626086	0.001786629
0.607811142	1.766871614	0.373316274	0.335730638	8.771853085	0.401587317
0.361924787	1.032899445	0.37190492	0.416729453	6.144558781	0.189795966
0.446208577	0.795208373	0.602569751	0.4773094	5.527198738	0.217982648
4.175853606	4.996651863	3.779563255	3.080000099	4.258455214	0.248481543
0.970225826	2.455182943	0.407876376	0.507103091	6.499871763	0.16796932
0.573106117	1.685253299	0.30195713	0.37322814	7.586212177	0.267915528
0.657954133	1.307936785	0.440152197	0.397817417	6.034523032	0.093009664
61.02828605	83.54540952	50.31175155	44.6686633	7.425828828	0.3400989
1.462494429	3.503834105	2.930059241	2.974762155	6.078918381	0.093211699
0.406874282	0.560706649	0.425121362	0.390407231	4.712712838	0.034183526
0.457166645	1.474099961	0.304000724	0.521203846	4.06582361	0.04992008
0.480300439	0.869739813	0.280538667	0.2788669	6.115471229	0.051768766
0.310464539	0.620093918	0.27653295	0.3589525	7.472233071	0.059163512
0.267582385	0.65482726	0.365230968	0.303828646	5.25410598	0.066558258
13.41183072	12.98156207	7.117163299	5.284785385	5.799445439	0.067498856
6.51255581	7.555161584	4.574878009	3.272802793	5.733172495	0.055227453
26.07297733	32.54743114	17.66618015	14.97411837	4.891843075	0.204529532
0.38695623	1.007911008	0.539288293	0.3021859	4.150484708	0.235208041
0.580933728	1.755586186	0.360983125	0.544928286	4.617189087	0.069906847

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2.38647706	1.342798105	1.226253114	1.503665852	5.778047201	0.388497921
1.395737201	2.009635734	0.355239629	1.043386942	5.866153818	1.065321191
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0.39261399	1.118879922	0.331697062	0.697838106	5.66275096	0.001786629
0.716491885	2.069092876	0.373444589	0.422554241	5.183676014	0.044537466
0.853509907	0.949852814	0.400154192	0.773784427	5.457838616	0.225524544
0.842760586	1.39834943	1.198162901	1.222578589	6.09640256	0.565780691
0.494943271	0.91946253	0.30118937	0.517933396	6.423322856	0.091004672
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1.194178212	4.088298704	1.732518692	1.310967634	6.904641844	2.067029016
5.323691909	7.359066196	2.856734091	3.862751323	4.045202722	0.242411106
1.14988022	1.974231548	1.081982124	1.050669282	6.054112216	0.114631479
2.701878011	3.689317261	1.366895089	1.623638326	5.110646667	1.172571627
0.635161074	1.213997405	0.728266647	0.843915787	4.994476766	0.240531994
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0.962160434	0.995648177	0.896274581	0.7651009	3.90180717	0.114624105
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0.620328594	1.220372619	0.646379072	0.56320946	6.306475168	0.253936054
6.514805523	8.672156918	3.803869098	3.567217888	5.073113539	0.735813842
0.662034075	0.794603729	0.682530042	0.600861837	6.927631326	0.111003242
4.115275295	6.784866051	4.247333289	4.480133208	4771.001	120.003
1.21505976	4.335714419	0.526845407	0.946065725	6.749811292	0.433479877
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0.431982963	1.61811917	0.663920602	0.898065887	6.474245021	0.195851042
0.844296203	1.375956589	0.53937589	0.473821149	5.668656377	0.118699939
0.335622978	0.676340255	0.384219178	0.304276688	7.240114376	0.219589843
0.200488657	1.081970576	0.186708877	0.479191336	6.517019639	1.194858916
2.44079427	6.316180896	2.014785407	1.728383008	6.444111167	1.131231159
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0.44581656	0.729811887	0.287224906	0.287361954	3.992096482	0.169125732
22.09079541	44.91890609	12.62495671	22.74712804	6.222558682	0.23876455
0.985521587	1.129970222	0.466024491	0.530026622	6.092875078	0.102531937
1.549964371	2.093428531	0.462237164	0.528630428	6.810869591	0.077677969
0.995988075	1.120115354	0.354677086	0.424613982	5.824596351	0.285829949
0.668191982	1.365558268	0.429894684	0.551885991	4.544483832	0.059163512
0.369145381	0.800707296	0.294272554	0.272626464	3.933048397	0.001854233
0.56630824	0.77947259	0.436590866	0.284714388	4.972718533	0.114539238
0.352793943	0.756549704	0.44340243	0.425865817	8.95583485	0.210665234

0.295521873	1.362820523	0.353280198	0.266783098	3.837092308	0.00205137
0.42601608	1.929110778	0.419445291	0.672287132	6.133960583	0.189739819
2.165263225	2.702320159	1.314723308	1.208694402	7.507243448	0.270338897
0.811150111	1.340623821	0.282866757	0.313477814	5.429496029	0.433479877
1.367496691	3.729455163	0.593215911	2.877887896	7.921425253	0.445475775
1.022926166	2.796728331	0.469938986	1.835776834	6.129517119	0.545050956
2.614547871	3.438400135	1.243904529	2.642138615	5.800379947	0.105101151
0.690598094	1.626796117	0.684871547	0.89218159	6.188052436	0.172789976
0.632645323	1.297611317	0.534196563	0.912524894	7.431966331	0.001786629
1.908826349	4.238270452	0.76707832	3.872913121	5.347965178	0.195433302
4.88653145	9.744864279	1.380285156	11.84059347	5.520650509	0.003116066
0.948888876	1.740392364	0.397095145	1.69235805	6.378211991	0.080784715
1.215894089	1.982924118	1.124034868	0.973000023	5.520874417	0.00205137
2.652217323	3.708859362	1.512294019	4.098101868	4.611025512	0.161579619
4.748676525	10.79874999	0.97994409	8.252643618	6.288068	0.051136985
1.229161436	4.643659177	0.558579613	2.733060261	6.667348128	0.119954684
0.825575455	0.994757285	0.322037642	0.265906622	7.425481765	0.325723994
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0.255733368	0.551929735	0.320595836	0.362592755	4.739741499	0.051768766
1.403376885	2.325480391	0.658354934	0.748702491	5.736668243	0.122160641
1.183741347	1.079446222	0.761974041	0.668627885	4.921048102	0.161579619
1.488187615	3.142505983	1.763797922	1.989566181	5.251289556	0.243388977
1.715185371	1.922997278	0.495565639	1.108748997	4.753032185	0.003116066
0.746725892	1.444609939	0.340539035	0.778821969	5.448459783	1.352134001
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0.970728164	1.510168026	0.857491877	0.614884505	5.142178497	0.325092041
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0.04590886	0.041869374	0.178053125	0.159195511	0.078504797	0.051361268
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0.876064161	1.055031472	0.677560047	0.957686169	4.447016003	0.232662095
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0.292991435	0.458337269	0.403330485	0.155047098	6.601790245	0.148535335
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Dimethyl Disulfide**ng**

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