

Paragon Analytics

Dissolved Gasses Case Narrative

Cordilleran Compliance Services, Inc.

Rulison Area Well monitoring

Order Number - 0811110

1. This report consists of 2 water samples. The samples were received cool and intact by Paragon on 11/14/08. The vials for samples 0811110-1 and -1D contained headspace prior to analysis because they were not received headspace free. The samples had a pH < 2 at the time of analysis. Only the aqueous phase of the samples was analyzed.
2. These samples were prepared and analyzed according to method RSK-175 procedures and PA SOP449R0.
3. The preparation batch included a method blank, laboratory control sample, laboratory control sample duplicate, and sample duplicate. Per method requirements, a matrix spike was also performed for this analysis. Since a sample from this order number was not the selected quality control (QC) sample, the results for the matrix spike are not included in this report. The following is the sample used for the matrix QC:


Sample ID	QC Type	Batch ID
0811110-1	DUP	HC081120-1

Similarity of matrix and therefore relevance of the QC results should not be automatically inferred for any sample other than the native sample selected for QC.

4. All preparation QC results were within the acceptance criteria.
5. All samples are associated with one or more of the following analytical QC: initial calibrations, initial calibration verifications (ICV), and continuing calibration verifications (CCV).
6. All analytical QC were within the acceptance criteria.
7. Sample dilutions were not required for the requested analysis.
8. The samples were prepared and analyzed within the established holding times.

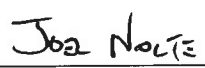
9. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in Paragon Analytics Standard Operating Procedure 939 Revision 3. Whenever manual integrations are performed, before and after chromatograms of the peak that was manually integrated are included in the report along with the reason re-integration was necessary.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, Paragon Analytics certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.



Emily Khodel
Organics Primary Data Reviewer

12-05-08
Date



Joe Noltz
Organics Final Data Reviewer

12-8-08
Date

***Paragon Analytics
Data Qualifier Flags
Chromatography and Mass Spectrometry***

U or ND:	This flag indicates that the compound was analyzed for but not detected.
J:	This flag indicates an estimated value. This flag is used as follows: (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the retention time data indicate the presence of a compound that meets the GC identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.
B:	This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.
E:	This flag identifies compounds whose concentration exceeds the upper level of the calibration range.
A:	This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.
X:	This flag indicates that the analyte was diluted below an accurate quantitation level.
*:	This flag indicates that a spike recovery is equal to or outside the control criteria used.
+: 	This flag indicates that the relative percent difference (RPD) equals or exceeds the control criteria.

ALS Paragon

Sample Number(s) Cross-Reference Table

Paragon OrderNum: 0811110

Client Name: Cordilleran Compliance Services, Inc.

Client Project Name: Rulison Area Well monitoring

Client Project Number:

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
A11-15D	0811110-1		WATER	13-Nov-08	8:40
A11-15B	0811110-2		WATER	13-Nov-08	8:30



Paragon Analytics

A Division of DataChem Laboratories, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID)

Chain-of-Custody

Date 11/13/08

Page 1 of 1

Originator: Retain pink copy!

Project Name/No.: RAISON AREA WELL MONITOR Sampler(s): TPD

Turnaround (circle one) Standard or Rush (Due

Dispose: Date _____ or Return to Client

Report To: JAMES HIX

Phone: (303) 237,2072

Fax: (303) 237 2659

E-mail: jameshix@cordcomp.com

Company: Cordilleran Compliance Services, Inc.

Address: 826 2 1/2 Road

4690 TABLE MOUNTAIN DR. # 200

GOLDEN, CO 80403

Circle method (right); provide additional information as needed (comments).

Sample ID

Date

Time *

Lab ID

Matrix

Preservative
(Indicate type... HCl, etc.)

No. of Containers

A11-15D

11/13/08

0840

1

M

NSH

17

A11-15B

11/13/08

0830

2

M

"

17

SW8260B

SW8021B

SW8270C

SW8081A

SW8082

SW8151A

SW8330

SW8260B 8270C 8081A 8151A

SW6010B 7470

SW6010B 7470 7471 E200.7

SW6010B 7470 E200.7

SW6020A E200.8

SW6020A E200.8

SW7196A Alkaline Digest? Y / N

SW9056 E300.0 (specify in comments)

Total E160.3 TDS E160.1 TSS E160.2

SW9040B SW9045C

SW8015B (RC DRO (circle one or both))

SW9310 E900.0

Actinides by Paragon SOP

Pu / U / Am / Th / Cm /

E906.0

Tritium

Total Alpha-Emitting Radium

SW9315 E903.0

E903.1

Radium 226

SW9320 E904.0

Radium 228

Strontium 90 (Total RadioSr)

D5811-00

Gamma Isotopes

E901.1

SM7510Rn

Radon 222

BSK

NH₂NO₂, T-Rho

* Time Zone: EST CST MST PST Matrix Key: O = oil, S = soil, NS = non-soil solid, W = water, L = liquid, E = extract, F = filter

Comments:

Relinquished By:

Signature

Printed Name

Date

Time

Company

Relinquished By:

Signature

Printed Name

Date

Time

Company

Relinquished By:

Signature

Printed Name

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Received By:

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Received By:

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Company

Received By:

Signature

Printed Name

Date

Time

Company

CONDITION OF SAMPLE UPON RECEIPT FORM

Paragon Analytics

Client: CordilleraWorkorder No: 0811110Project Manager: LSInitials: oo Date: 11-14-08

1. Does this project require any special handling in addition to standard Paragon procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	NONE	<input checked="" type="radio"/> YES	NO
3. Are Custody seals on sample containers intact?	NONE	<input checked="" type="radio"/> YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible ?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF:	<input checked="" type="radio"/> YES	NO
8. Are all aqueous samples requiring preservation preserved correctly ? (excluding volatiles)	N/A	<input checked="" type="radio"/> YES	NO
9. Are all aqueous non-preserved samples pH 4-9 ?	N/A	<input checked="" type="radio"/> YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact ? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: <u>✓</u> < green pea <u> </u> > green pea	N/A	<input checked="" type="radio"/> YES	NO
15. Do perchlorate LCMS-MS samples have headspace ? (at least 1/3 of container required)	<input checked="" type="radio"/> N/A	<input checked="" type="radio"/> YES	NO
16. Were samples checked for and free from the presence of residual chlorine ? (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	<input checked="" type="radio"/> N/A	<input checked="" type="radio"/> YES	NO
17. Were the samples shipped on ice ?		<input checked="" type="radio"/> YES	NO
18. Were cooler temperatures measured at 0.1-6.0°C?	IR gun used*: <u>#2</u> <u>#4</u>	RAD ONLY: <input checked="" type="radio"/> YES	NO
Cooler #: <u>1</u>			
Temperature (°C): <u>3.4</u>			
No. of custody seals on cooler: <u>1</u>			
External µR/hr reading: <u>14</u>			
Background µR/hr reading: <u>13</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> NA (If no. see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

Headspace Bottle # ① 1, 2, 3, 6, 7, 9
2 - 1, 2

Slime layer in -1-15 & -1-16 (Organic?)

If applicable, was the client contacted? ☒ YES / NO / NA Contact: J. Hix Date/Time: 11/12/08Project Manager Signature / Date: [Signature] 11/12/08

*IR Gun #2: Oakton. SN 29922500201-0066

*IR Gun #4: Oakton. SN 2372220101-0002

CONDITION OF SAMPLE UPON RECEIPT FORM

Paragon Analytics

Client: Concilliano

Workorder No: 081110

Project Manager: LS

Initials: as Date: 11-14-08

Additional Information:

Was the laboratory directed to proceed with the analysis of any samples yielding the presence of residual chlorine? YES / NO / NA

NOTE:

No pH adjustments shall be made without prior consent of Project Manager. After pH adjustments, hold metals and radchem samples ≥ 24 hrs. before analysis.

Was the pH of any sample adjusted by the laboratory? YES (See Table below) / NO

pH Excursion:

Paragon Sample ID	Client Sample ID	Initial pH	Final pH	Reagent Used	Volume Added (mL)	Lot No. of Reagent	Requested Analysis	Initials / Date / Time
-1-12		7	1.6	conc HNO ₃	1 mL			as 11/14/08 1030
-1-15		↓	↓	↓	↓			↓
-1-16		↓	↓	↓	↓			↓
-1-17		↓	↓	↓	↓			↓
-2-12		↓	↓	↓	↓			↓
-2-15		↓	↓	↓	↓			↓
-2-16		↓	↓	↓	↓			↓
-2-17		↓	↓	↓	↓			↓

If applicable, was the client contacted? YES / NO / NA Contact: 11/17/08 Date/Time: _____

Project Manager Signature / Date: 11/17/08

ORIGIN ID: GJTA (970) 270-2986
TIM DOBRANSKY
CORDILLERAN COMPLIANCE SERVICES, IN
826 21 1/2 ROAD

GRAND JUNCTION, CO 81505
UNITED STATES US

Ship Date: 13NOV08
ActWgt: 20.0 LB MAN
System#: 390082/CAFE2358
Account: S 235727234

TO

(800) 443-1511

PARAGON ANALYTICS
225 COMMERCE DRIVE

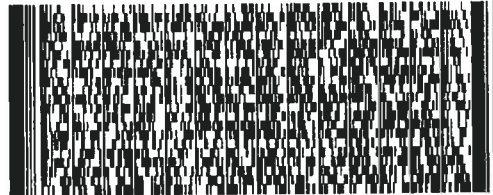
FedEx
Express

FORT COLLINS, CO 80524



CL5050107/22/23

Ref: 8360



Delivery Address
Barcode

BILL SENDER

PRIORITY OVERNIGHT

FRI

Deliver By:

14NOV08

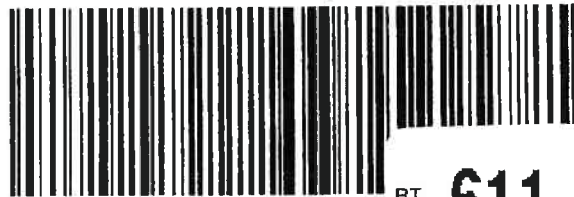
TRK# 9660 0451 2332 Form 0201

DEN

AA

80524 -CO-US

72 FTCA



RT

611 A

FZ

2332
11.14

Analytical Results

Dissolved Gasses

Method RSK175

Method Blank

Lab Name: ALS Paragon

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Lab ID: HC081120-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 20-Nov-08

Date Analyzed: 20-Nov-08

Prep Method: METHOD

Prep Batch: HC081120-1

QCBatchID: HC081120-1-1

Run ID: HC081120-1A

Cleanup: NONE

Basis: N/A

File Name: 00764.dat

Sample Aliquot: 38.5ml

Final Volume: 38.5ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
74-82-8	METHANE	1	1	1	U	

Data Package ID: HC0811110-1

Date Printed: Friday, December 05, 2008

ALS Paragon

LIMS Version: 6.213A

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METHANE
Method RSK175
Sample Results

Lab Name: ALS Paragon
Client Name: Cordilleran Compliance Services, Inc.
Client Project ID: Rulison Area Well monitoring
Work Order Number: 0811110 **Final Volume:** 38.5 ml
Reporting Basis: As Received **Matrix:** WATER
Prep Method: METHOD **Result Units:** UG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag	Sample Aliquot
A11-15D	0811110-1	11/13/2008	11/20/2008	11/20/2008	N/A	1	5700	1		38.5 ml
A11-15B	0811110-2	11/13/2008	11/20/2008	11/20/2008	N/A	1	4000	1		38.5 ml

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: HC0811110-1

Date Printed: Friday, December 05, 2008

ALS Paragon
LIMS Version: 6.213A

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Supporting QA/QC Data

Dissolved Gasses

Method RSK175

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Paragon

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Lab ID: HC081120-1LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/20/2008
Date Analyzed: 11/20/2008
Prep Method: METHOD

Prep Batch: HC081120-1
QCBatchID: HC081120-1-1
Run ID: HC081120-1A
Cleanup: NONE
Basis: N/A
File Name: 00763.dat

Sample Aliquot: 38.5 ml
Final Volume: 38.5 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
74-82-8	METHANE	140	125	1		89	80 - 120%

Lab ID: HC081120-1LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 11/20/2008
Date Analyzed: 11/20/2008
Prep Method: METHOD

Prep Batch: HC081120-1
QCBatchID: HC081120-1-1
Run ID: HC081120-1A
Cleanup: NONE
Basis: N/A
File Name: 00773.dat

Sample Aliquot: 38.5 ml
Final Volume: 38.5 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
74-82-8	METHANE	140	156	1		112	25	22

Data Package ID: HC0811110-1

Date Printed: Friday, December 05, 2008

ALS Paragon
LIMS Version: 6.213A

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Dissolved Gasses

Method RSK175

Duplicate Sample Results

Lab Name: ALS Paragon

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Field ID: A11-15D

Lab ID: 0811110-1D

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 11/13/2008

Date Extracted: 11/20/2008

Date Analyzed: 11/20/2008

Prep Batch: HC081120-1

QCBatchID: HC081120-1-1

Run ID: HC081120-1A

Cleanup: NONE

Basis: As Received

File Name: 00768.dat

Sample Aliquot: 38.5 ml

Final Volume: 38.5 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Sample Result	Samp Qual	Duplicate Result	Dup Qual	Reporting Limit	Dilution Factor	RPD	RPD Limit
74-82-8	METHANE	5700		5670		1	1	0	25

Data Package ID: HC0811110-1

Date Printed: Friday, December 05, 2008

ALS Paragon

LIMS Version: 6.213A

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Prep Batch ID: HC081120-1

Start Date: 11/20/08
Start Time: 14:00
Prep Analyst: Tyler Knaebel

End Date: 11/20/08
End Time: 15:00

Concentration Method: NONE
Extract Method: METHOD
Initial Volume Units: ml
Final Volume Units: ml

Batch Created By: twk
Date Created: 11/20/08
Time Created: 18:30
Validated By: twk
Date Validated: 11/21/08
Time Validated: 11:06

Comments:

QC Batch ID: HC081120-1-1

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
HC081120-1	MB	XXXXXX	WATER	XXXXXX	38.5	38.5	NONE	1	0811110
HC081120-1	LCS	XXXXXX	WATER	XXXXXX	38.5	38.5	NONE	1	0811110
HC081120-1	LCSD	XXXXXX	WATER	XXXXXX	38.5	38.5	NONE	1	0811110
0811129-1	MS	XXXXXX	WATER	XXXXXX	38.5	38.5	NONE	1	0811129
0811110-1	DUP	A11-15D	WATER	11/13/2008	38.5	38.5	NONE	1	0811110
0811110-1	SMP	A11-15D	WATER	11/13/2008	38.5	38.5	NONE	1	0811110
0811110-2	SMP	A11-15B	WATER	11/13/2008	38.5	38.5	NONE	1	0811110
0811129-1	SMP	XXXXXX	WATER	XXXXXX	38.5	38.5	NONE	1	0811129

QC Types

CAR	Carrier reference sample	DUP	Laboratory Duplicate
LCS	Laboratory Control Sample	LCSD	Laboratory Control Sample Duplicat
MB	Method Blank	MS	Laboratory Matrix Spike
MSD	Laboratory Matrix Spike Duplicate	REP	Sample replicate
SMP	Field Sample	SYS	Sample Yield Spike

Calibration Report

Page 1 of 2

Sequence : \\gcserver\gcdata\Projects\GC9\Sequence\2008\mee041508A.seq
 User : sheneman
 Printed : 4/21/2008 9:45:05 AM

Instrument : GC9 (Offline)
 Method Name : \\gcserver\gcdata\Projects\GC9\Method\2008\mee041508.met
 Method Created : 4/15/2008 10:48:35 AM

Methane (FID 1)

Average RF: 2157.12 RF StDev: 827.791 RF %RSD: 38.3748
 Scaling: None LSQ Weighting: 1/Amount Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Quadratic
 $y = -0.0236158x^2 + 2040.31x + 479.565$
 Goodness of fit (r^2): 0.999996 ✓

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
Amount	0.5598	3.4989	13.9955	139.955	1259.6	12596
Area	2143	6088	23923	264184	2563261	21950488
RF	3828.15291175	1739.97542084	1709.33514343	1887.63126512	2034.98338358	1742.65821317
	42	655	896	537	746	595
Last Area						
Residual	-0.255495	0.749992	2.50381	10.5138	-15.2921	1.92666
Rep StDev						
Rep %RSD						
Rep 1 Area	2143	6088	23923	264184	2563261	21950488

Ethene (FID 1)

Average RF: 1251.52 RF StDev: 262.774 RF %RSD: 20.9964
 Scaling: None LSQ Weighting: 1/Amount Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Quadratic
 $y = -0.00939698x^2 + 1350.77x - 296.915$
 Goodness of fit (r^2): 0.999996 ✓

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
Amount	0.9797	6.123	24.4922	244.922	2204.3	22043
Area	1681	5883	26811	305821	2966292	25205505
RF	1715.83137695	960.803527682	1094.67503940	1248.64803731	1345.68739665	1143.47240274
	213	509	03	152	063	101
Last Area						
Residual	-0.484604	1.54774	4.42088	17.9382	-26.5502	3.41702
Rep StDev						
Rep %RSD						
Rep 1 Area	1681	5883	26811	305821	2966292	25205505

Ethane (FID 1)

Average RF: 1778.13 RF StDev: 375.166 RF %RSD: 21.0989

DS
4-21-08

Calibration Report

Page 2 of 2

Sequence : \\gcserver\gcdata\Projects\GC9\Sequence\2008\mee041508A.seq
 User : sheneman
 Printed : 4/21/2008 9:45:05 AM

Scaling: None LSQ Weighting: 1/Amount Force Through Zero: Off

Replicate Mode: Replace

Fit Type: Quadratic

$$y = -0.0122508x^2 + 1943.13x - 582.244$$

Goodness of fit (r^2): 0.999997

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
Amount	1.0497	6.5604	26.2416	262.416	2361.74	23617.4
Area	2519	8464	41533	474270	4570623	39053286
RF	2399.73325712	1290.16523382	1582.71599292	1807.32051120	1935.27780365	1653.57828790
	108	721	726	339	324	927
Last Area						
Residual	-0.546319	1.90477	4.56474	17.6638	-26.7199	3.40456
Rep StDev						
Rep %RSD						
Rep 1 Area	2519	8464	41533	474270	4570623	39053286

DS
4-21-08

METHANE
Method RSK175
Calibration Verifications

Lab Name: ALS Paragon

Work Order Number: 0811110

Client Name: Cordilleran Compliance Services, Inc.

ClientProject ID: Rulison Area Well monitoring

Run ID: HC081120-1A

Result Units: UG/L

Lab ID	Verification Type	Date Analyzed	Time Analyzed	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
ICV	Initial Calibration	4/15/2008	15:08	140	144	1	N/A	103	80 - 120
CCV1	Continuing Calibration	11/20/2008	15:13	140	125	1	N/A	89	80 - 120
CCV2	Continuing Calibration	11/20/2008	17:11	140	156	1	N/A	112	80 - 120

Data Package ID: *HC0811110-1*

Date Printed: Friday, December 05, 2008

ALS Paragon
LIMS Version: 6.213A

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Supporting Raw Data

Dissolved Gases Sequence Log

Logbook No. / Page 3652 / 04

Analytical Method : RSK-175 SOP : 449 Rev. 0

ICV file # : DATA.SYSTEM

000101 DS
4248

Instrument : GC9

Analyst : sheneman

(1st file) Acq. Date : 4/15/2008 2:38:07 PM

(1st file) Data Path : \\gcserver\gcdata\Projects\GC9\Data\2008\mee041508\000095.dat

Sequence File : \\gcserver\gcdata\Projects\GC9\Sequence\2008\mee041508A.seq

Method Path : \\gcserver\gcdata\Projects\GC9\Method\2008\mee041508.met

QC Name	Standard ID #	Spike Volume Added (uL)	Temperature =
CCV	ST080415-1	1000	22.0 C
LCS/D	ST080415-1	1000	Atmospheric Pressure = 836 mbar
MS	ST080415-1	1000	Final Sample Volume = 38.5 mL
ICV	ST080314-3	1000	Headspace Volume = 4.0 mL

Data File	Method	Sample	RR?	Comments
000095.dat	mee041508.met	MEE 4UL 1% ST080415-1	Y/N	4ul to 4.0 mL OK
000096.dat	mee041508.met	MEE 25UL 1% ST080415-1	Y/N	25ul
000097.dat	mee041508.met	MEE 100UL 1% ST080415-1	Y/N	100ul
000098.dat	mee041508.met	MEE 1000UL 1% ST080415-1	Y/N	1000ul
000099.dat	mee041508.met	MEE 300UL 1% ST080415-2 30%	Y/N	300ul
000100.dat	mee041508.met	MEE 3000UL 1% ST080415-2 30%	Y/N	3000ul to 4.0 mL
000101.dat	mee041508.met	MEE ICS 1000UL 1% ST080314-3	Y/N	15:08 GIB command timed out PASS
000104.dat	mee041508.met	HC080415-1MB	Y/N	Data file 000102 and 000103 not acquired by EZ Chrom
000105.dat	mee041508.met	HC080415-LCSD	Y/N	
000106.dat	mee041508.met	0804118-1	Y/N	
000107.dat	mee041508.met	0804118-1DUP	Y/N	
000108.dat	mee041508.met	0804118-1MS	Y/N	Data file 000110, 000111 & 000114 not acquired by EZ Chrom
000109.dat	mee041508.met	0804118-2	Y/N	
000112.dat	mee041508.met	0804118-3 Do not use*	Y/N	GIB command timed out
000113.dat	mee041508.met	0804118-4*	Y/N	Bad injection/val inject 2X, DNU
000115.dat	mee041508.met	*MEE CCV 1000UL 1% ST080415-1	Y/N	Carry-over/water present Re-inject
000116.dat	mee041508.met	0804118-3 Interference present	Y/N	DS 4248
000117.dat	mee041508.met	0804118-3	Y/N	
000118.dat	mee041508.met	MEE CCV 1000UL 1% ST080415-1	Y/N	17:42 PASS

(0804118-3) (CCV)

* file 000112 & 000115 compromised by taking more than one aliquot from vial.

will add
to SOP
DS
4-24-08

Every time an aliquot is taken the headspace concentration is compromised.

Δ Software does not acquire injection unless sequence has been saved.

* 10A vial contained a large sediment phase.
- 20-30% of vial

DS 4-24-08

Dissolved Gases (RSK175) Sequence Log

Logbook No. / Page : 3652 / 33

ICV file # : 101

Analytical Method : RSK-175 SOP : 449r0

Instrument : GC9

Analyst : knaebelt

(1st file) Acq. Date : 11/20/2008 1:16:09 PM

(1st file) Data Path : \\gcserver\gcdata\Projects\GC9\Data\2008\mee112008\00759.dat

Sequence File : \\gcserver\gcdata\Projects\GC9\Sequence\2008\mee112008.seq

Acq. Method Path : \\gcserver\gcdata\Projects\GC9\Method\2008\mee041508E.met

QC Name	Std ID #	Spike Vol. Added (uL)	Final Std. Vol. (uL)	Temp =
CCV (LCS)	ST080314-3	1000	38500	20.0 C
MS	ST080314-3	100	38500	Atm. Pressure = 962.0 mba
ICV	ST080314-3	1000	38500	Final Sample Vol = 38.50 mL
				Headspace Vol = 4.0 mL

Data File	Acq. Method	Sample	Head Space?	pH <= 2?	RR?	Comments
00759.dat	mee041508E.met	Blank	Y/N	Y/N	Y/N	
00760.dat	mee041508E.met	Blank	Y/N	Y/N	Y/N	
00761.dat	mee041508E.met	Instrument Blank	Y/N	Y/N	Y/N	<RL
00762.dat	mee041508E.met	CCS	Y/N	Y/N	Y/N	recoveries low
00763.dat	mee041508E.met	CCS	Y/N	Y/N	Y/N	PASSES
00764.dat	mee041508E.met	HC081120-1MB	Y/N	Y/N	Y/N	<RL
00765.dat	mee041508E.met	09/12 Ref. Blank	Y/N	Y/N	Y/N	<RL
00766.dat	mee041508E.met	09/12 Ref. Blank	Y/N	Y/N	Y/N	<RL
00767.dat	mee041508E.met	0811110-1	Y/N	Y/N	Y/N	
00768.dat	mee041508E.met	0811110-1DUP	Y/N	Y/N	Y/N	
00769.dat	mee041508E.met	0811110-2	Y/N	Y/N	Y/N	
00770.dat	mee041508E.met	0811134-1	Y/N	Y/N	Y/N	pH~6
00771.dat	mee041508E.met	0811129-1	Y/N	Y/N	Y/N	pH~7
00772.dat	mee041508E.met	0811129-1MS	Y/N	Y/N	Y/N	
00773.dat	mee041508E.met	CCSD	Y/N	Y/N	Y/N	PASSES

m 11/21/08

Calibration Raw Data

MEE Quantitation Report

Paragon Analytics

Sample : MEE 4uL 1% ST080415-1

Filename : \\gcserver\gcddata\Projects\GC9\Data\2008\mee041508\000095.dat

Acquisition Date : 4/15/2008 2:38:07 PM

Quantitation Date : 4/16/2008 2:22:50 PM

Last Method Update : 4/16/2008 2:22:33 PM

Method : \\gcserver\gcddata\Projects\GC9\Method\2008\mee041508.met

Sequence : \\gcserver\gcddata\Projects\GC9\Sequence\2008\mee041508A.seq

Data Description : {Data Description}

Instrument : GC9 (Offline)

Data Acquired By : sheneman

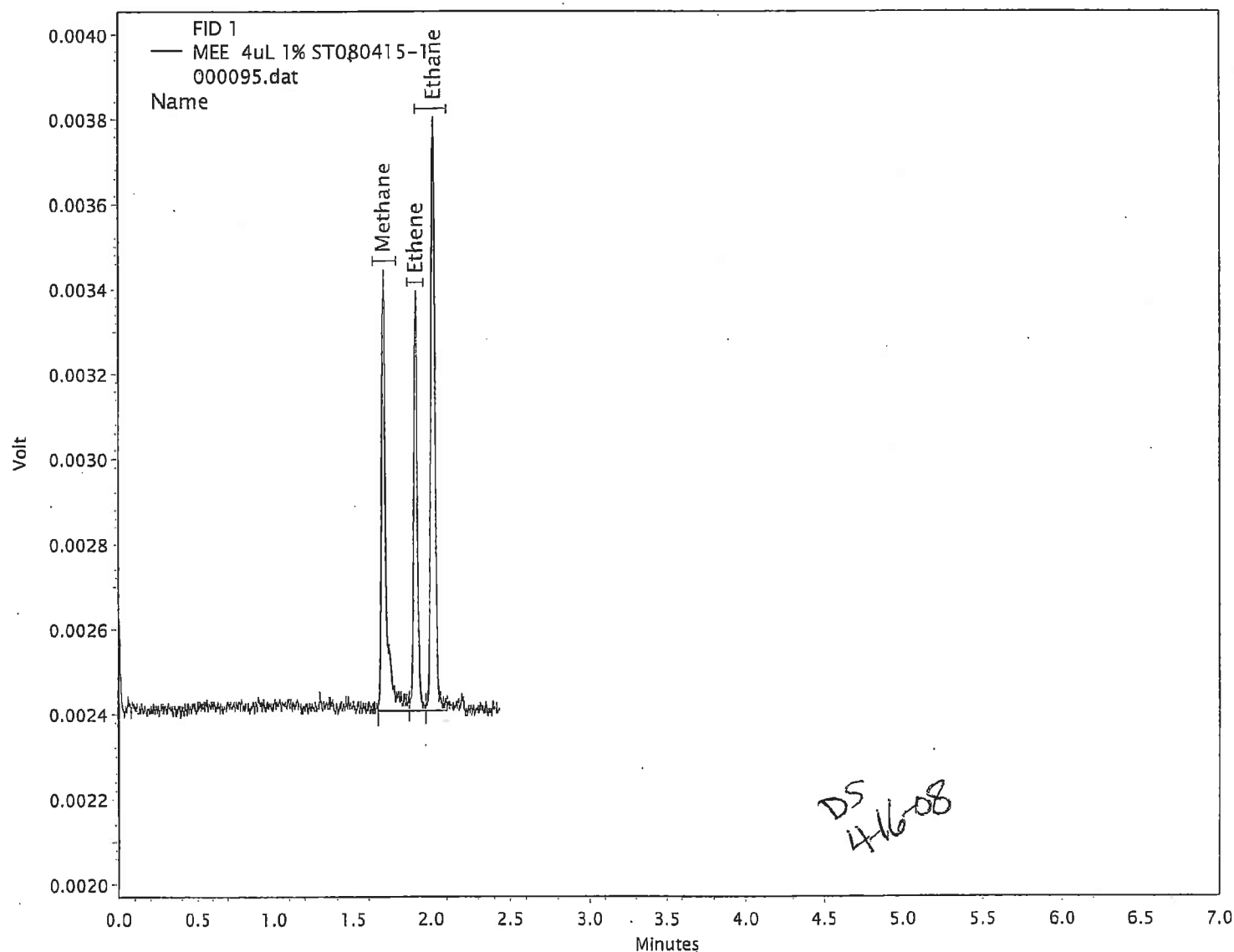
Data Processed By : sheneman

Inj. Vol. (uL) : 0

Vial : N/A

FID 1 Results

Compound Name	RT	Expected RT	Peak Area	Integration Codes	Conc.	Conc. Units
Methane	1.70	1.70	2143	BV	0.82	ug/L
Ethene	1.90	1.90	1681	VV	1.46	ug/L
Ethane	2.02	2.00	2519	VB	1.60	ug/L



MEE Quantitation Report

Paragon Analytics

Sample : MEE 25uL 1% ST080415-1

Filename : \\gcserver\gcdata\Projects\GC9\Data\2008\mee041508\000096.dat

Acquisition Date : 4/15/2008 2:42:12 PM

Quantitation Date : 4/16/2008 2:13:09 PM

Last Method Update : 4/16/2008 2:10:04 PM

Method : \\gcserver\gcdata\Projects\GC9\Method\2008\mee041508.met

Sequence : \\gcserver\gcdata\Projects\GC9\Sequence\2008\mee041508A.seq

Data Description : {Data Description}

Instrument : GC9 (Offline)

Data Acquired By : sheneman

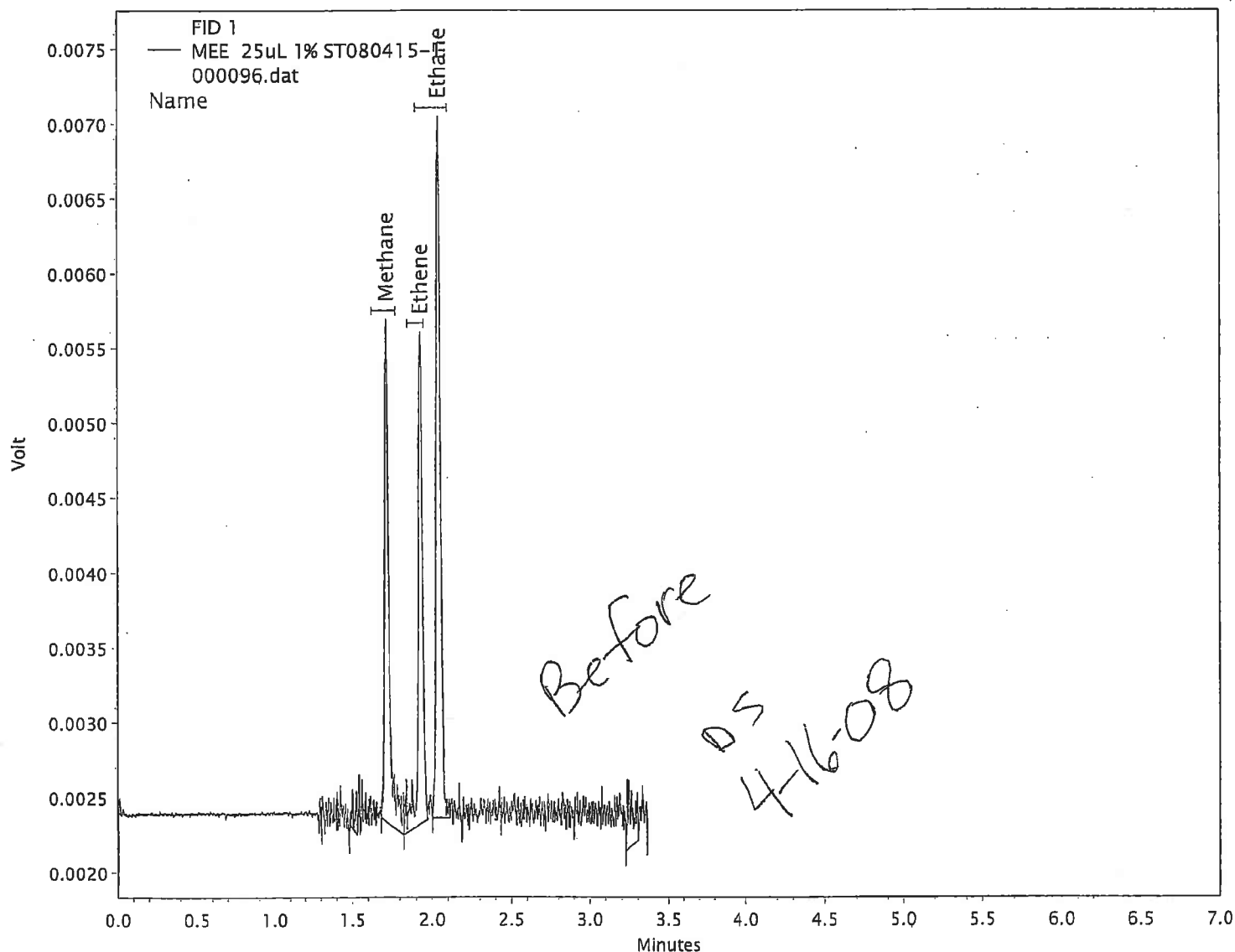
Data Processed By : sheneman

Ini. Vol. (uL) : 0

Vial : N/A

FID 1 Results

Compound Name	RT	Expected RT	Peak Area	Integration Codes	Conc.	Conc. Units
Methane	1.72	1.70	6588	BB	2.96	ug/L
Ethene	1.93	1.90	6358	BB	4.88	ug/L
Ethane	2.04	2.00	8464	BB	4.66	ug/L



MEE Quantitation Report

Paragon Analytics

Sample : MEE 25uL 1% ST080415-1

Filename : \\gcserver\gcdata\Projects\GC9\Data\2008\mee041508\000096.dat

Acquisition Date : 4/15/2008 2:42:12 PM

Quantitation Date : 4/16/2008 2:23:23 PM

Last Method Update : 4/16/2008 2:22:33 PM

Method : \\gcserver\gcdata\Projects\GC9\Method\2008\mee041508.met

Sequence : \\gcserver\gcdata\Projects\GC9\Sequence\2008\mee041508A.seq

Data Description : {Data Description}

Instrument : GC9 (Offline)

Data Acquired By : sheneman

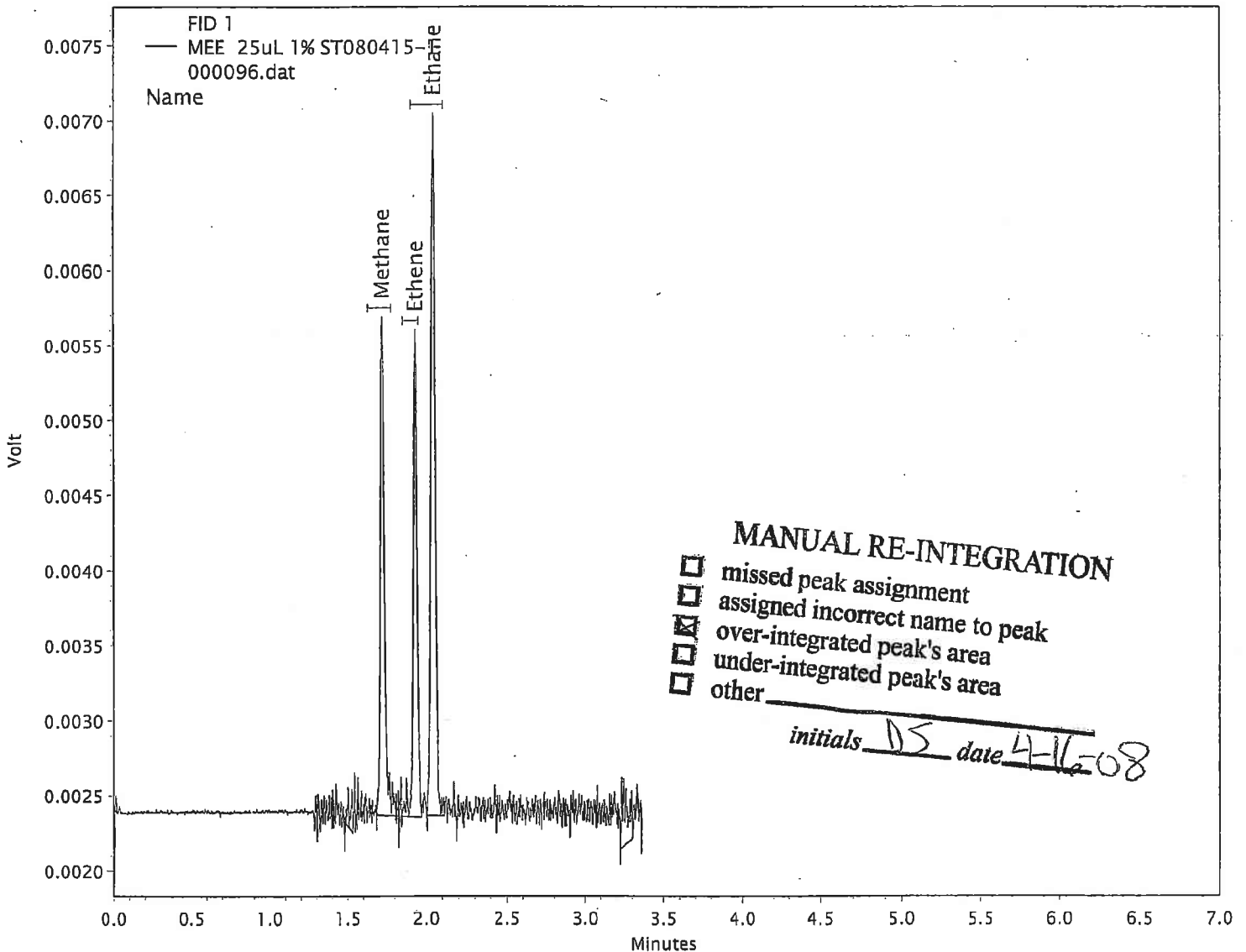
Data Processed By : sheneman

Inj. Vol. (uL) : 0

Vial : N/A

FID 1 Results

Compound Name	RT	Expected RT	Peak Area	Integration Codes	Conc.	Conc. Units
Methane	1.72	1.70	6088	mm ✓	2.75	ug/L
Ethene	1.93	1.90	5883	mm ✓	4.58	ug/L
Ethane	2.04	2.00	8464	BB	4.66	ug/L



MEE Quantitation Report

Paragon Analytics

Sample : MEE 100uL 1% ST080415-1

Filename : \\gcserver\gcdata\Projects\GC9\Data\2008\mee041508\000097.dat

Acquisition Date : 4/15/2008 2:48:26 PM

Quantitation Date : 4/16/2008 2:23:36 PM

Last Method Update : 4/16/2008 2:22:33 PM

Method : \\gcserver\gcdata\Projects\GC9\Method\2008\mee041508.met

Sequence : \\gcserver\gcdata\Projects\GC9\Sequence\2008\mee041508A.seq

Data Description : {Data Description}

Instrument : GC9 (Offline)

Data Acquired By : sheneman

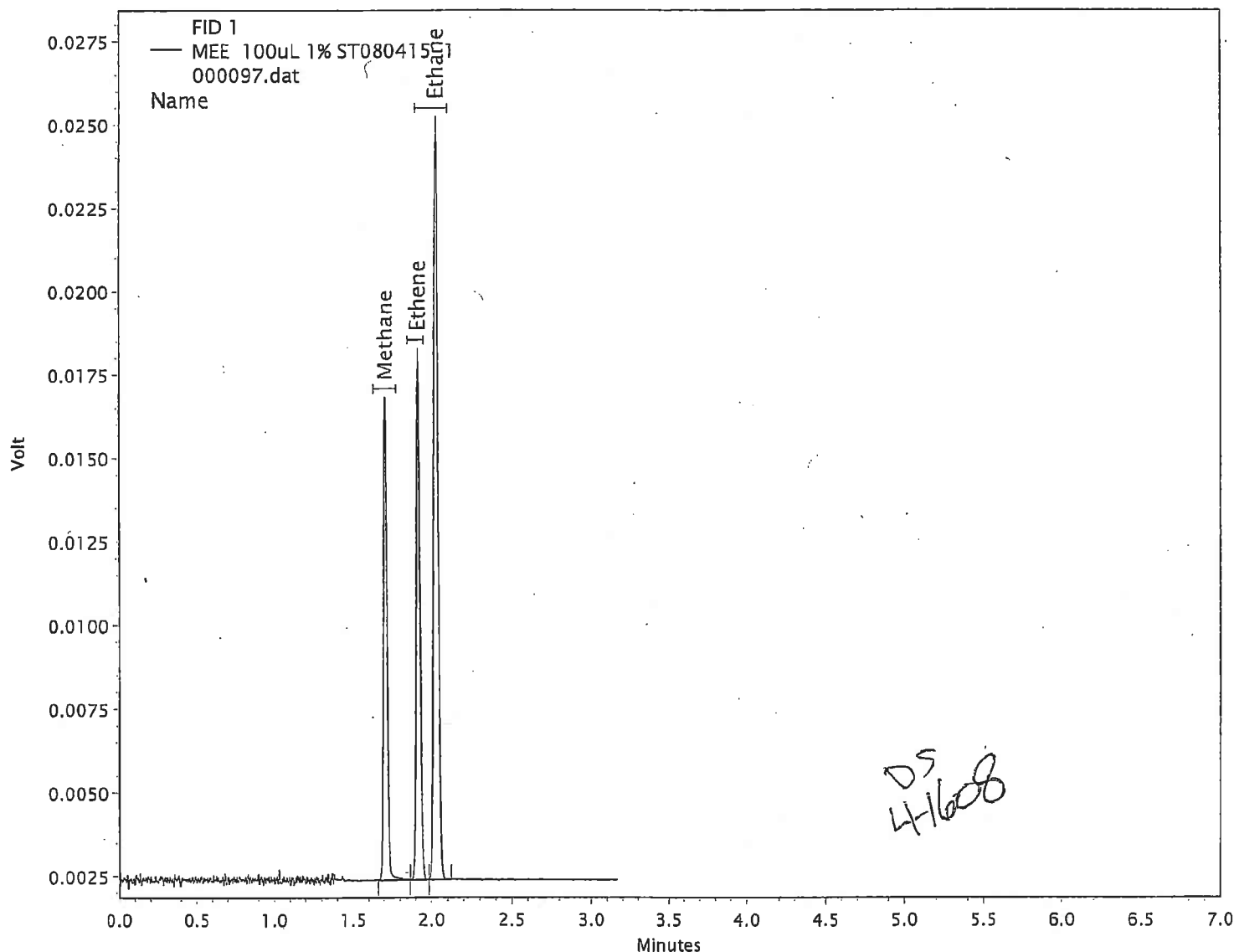
Data Processed By : sheneman

Inj. Vol. (uL) : 0

Vial : N/A

FID 1 Results

Compound Name	RT	Expected RT	Peak Area	Integration Codes	Conc.	Conc. Units
Methane	1.71	1.70	23923	BB	11.49	ug/L
Ethene	1.92	1.90	26811	BV	20.07	ug/L
Ethane	2.03	2.00	41533	VB	21.68	ug/L



MEE Quantitation Report

Paragon Analytics

Sample : MEE 1000uL 1% ST080415-1

Filename : \\gcserver\gcdata\Projects\GC9\Data\2008\mee041508\000098.dat

Acquisition Date : 4/15/2008 2:53:06 PM

Quantitation Date : 4/16/2008 2:23:48 PM

Last Method Update : 4/16/2008 2:22:33 PM

Method : \\gcserver\gcdata\Projects\GC9\Method\2008\mee041508.met

Sequence : \\gcserver\gcdata\Projects\GC9\Sequence\2008\mee041508A.seq

Data Description : {Data Description}

Instrument : GC9 (Offline)

Data Acquired By : sheneman

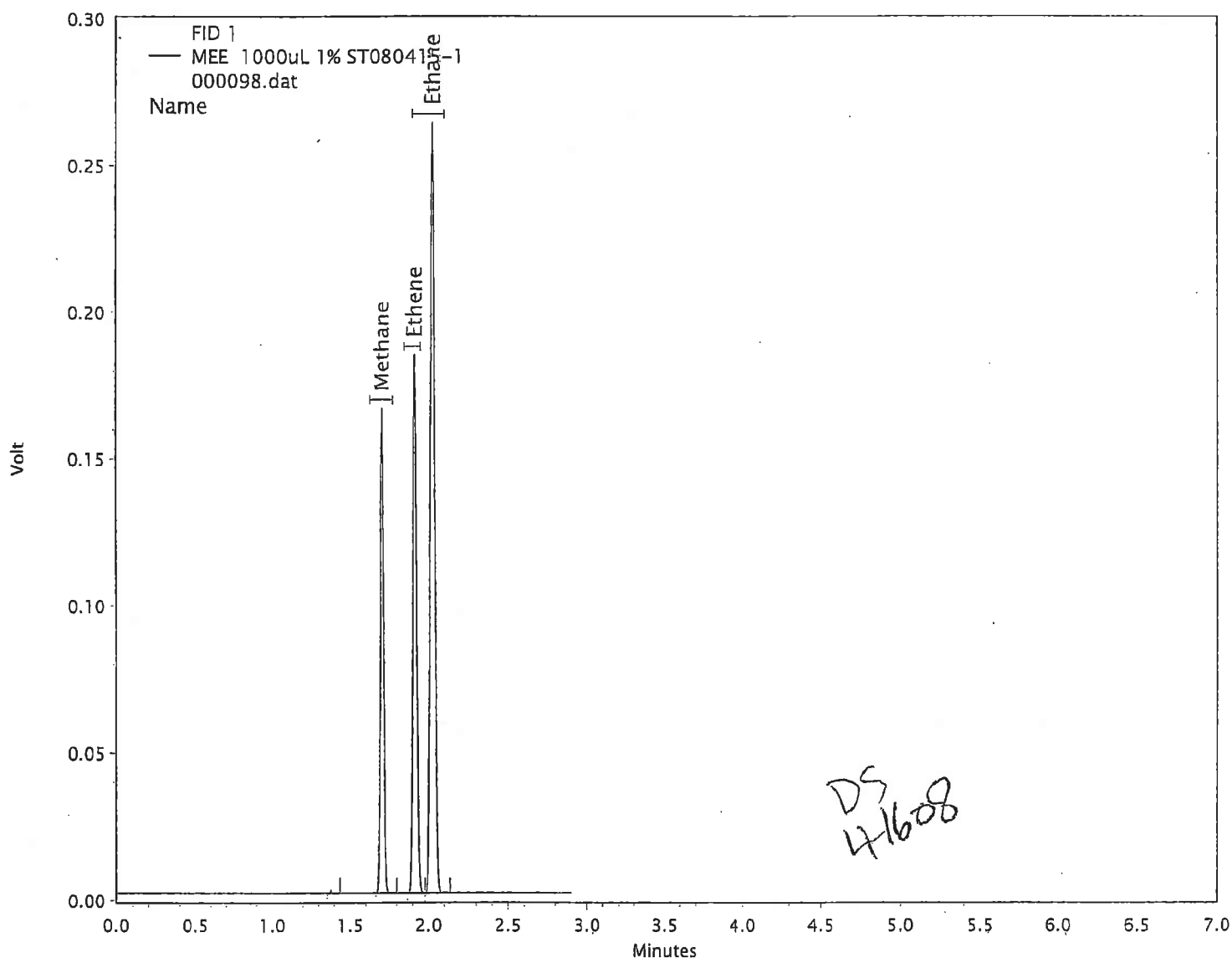
Data Processed By : sheneman

Inj. Vol. (uL) : 0

Vial : N/A

FID 1 Results

Compound Name	RT	Expected RT	Peak Area	Integration Codes	Conc.	Conc. Units
Methane	1.71	1.70	264184	BB	129.44	ug/L
Ethene	1.92	1.90	305821	BB	226.98	ug/L
Ethane	2.03	2.00	474270	BR	244.75	ug/L



30% 4-3088

MEE Quantitation Report

Paragon Analytics

Sample : MEE 300uL 1% ST080415-2

Filename : \\gcserver\gcdata\Projects\GC9\Data\2008\mee041508\000099.dat

Acquisition Date : 4/15/2008 2:57:26 PM

Quantitation Date : 4/16/2008 2:24:07 PM

Last Method Update : 4/16/2008 2:22:33 PM

Method : \\gcserver\gcdata\Projects\GC9\Method\2008\mee041508.met

Sequence : \\gcserver\gcdata\Projects\GC9\Sequence\2008\mee041508A.seq

Data Description : {Data Description}

Instrument : GC9 (Offline)

Data Acquired By : sheneman

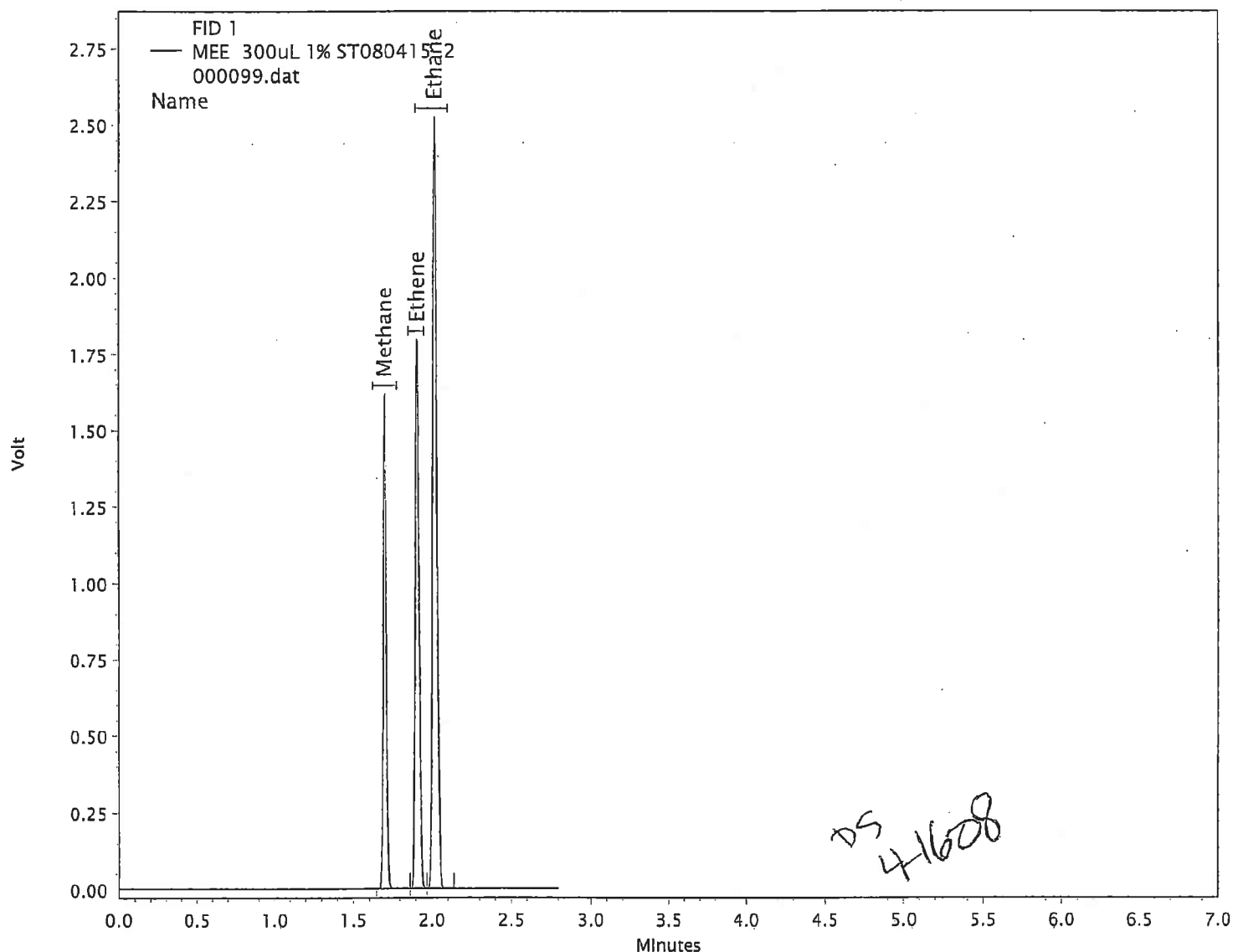
Data Processed By : sheneman

Inj. Vol. (uL) : 0

Vial : N/A

FID 1 Results

Compound Name	RT	Expected RT	Peak Area	Integration Codes	Conc.	Conc. Units
Methane	1.70	1.70	2563261	BB	1274.89	ug/L
Ethene	1.91	1.90	2966292	BV	2230.85	ug/L
Ethane	2.02	2.00	4570623	VR	2388.46	ug/L



MEE Quantitation Report

Paragon Analytics

30th 4-30-08
Sample : MEE 3000uL 1% ST080415-2

Filename : \\gcserver\gcdata\Projects\GC9\Data\2008\mee041508\000100.dat

Acquisition Date : 4/15/2008 3:01:52 PM

Quantitation Date : 4/16/2008 2:24:25 PM

Last Method Update : 4/16/2008 2:22:33 PM

Method : \\gcserver\gcdata\Projects\GC9\Method\2008\mee041508.met

Sequence : \\gcserver\gcdata\Projects\GC9\Sequence\2008\mee041508A.seq

Data Description : {Data Description}

Instrument : GC9 (Offline)

Data Acquired By : sheneman

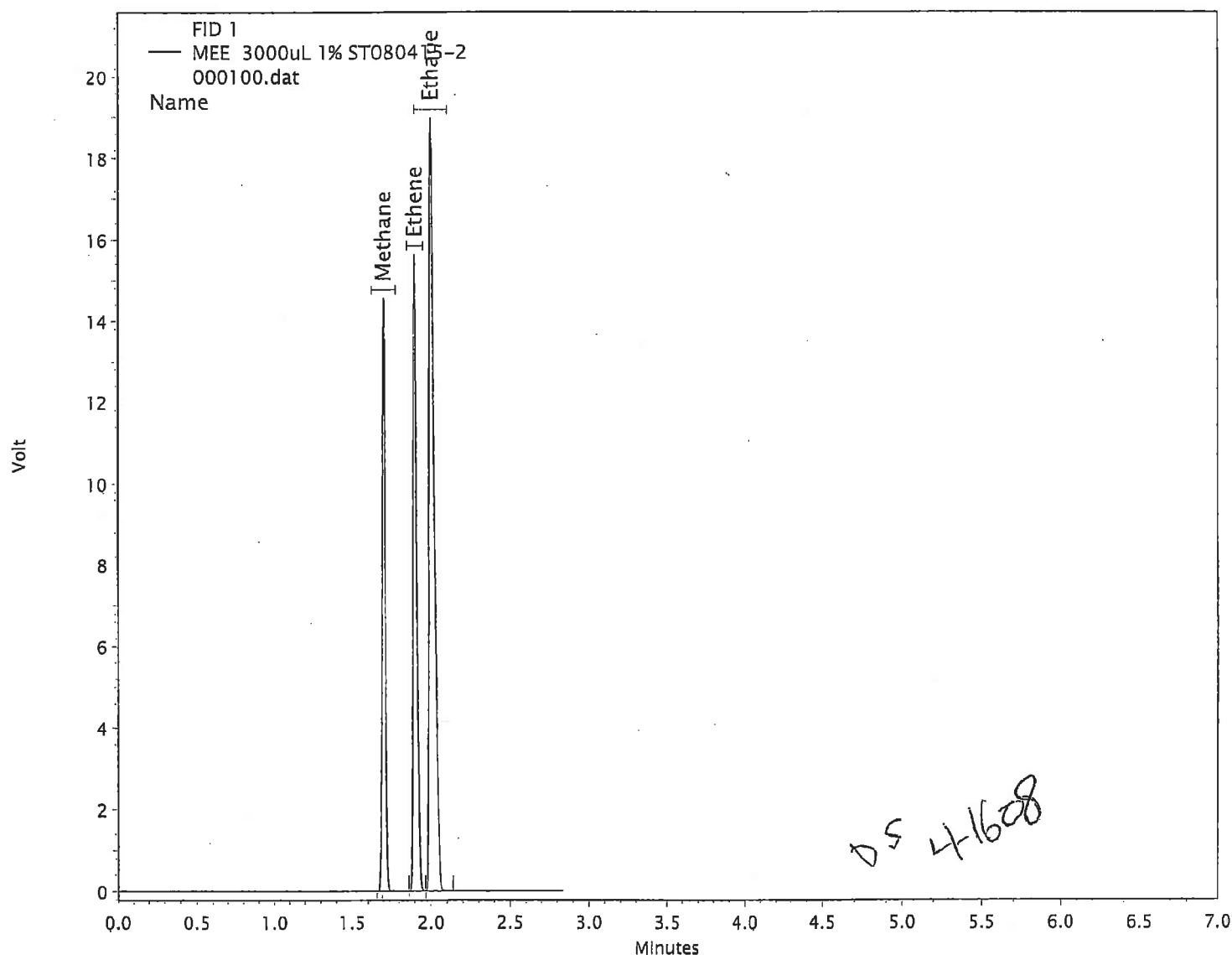
Data Processed By : sheneman

Inj. Vol. (uL) : 0

Vial : N/A

FID 1 Results

Compound Name	RT	Expected RT	Peak Area	Integration Codes	Conc.	Conc. Units
Methane	1.70	1.70	21950488	BB	12594.05	ug/L
Ethene	1.90	1.90	25205505	BV	22039.53	ug/L
Ethane	2.00	2.00	39053286	VR	23614.04	ug/L



MEE Quantitation Report

Paragon Analytics

Sample : MEE ICS 1000uL 1% ST080314-3

Filename : \\gcserver\gcdata\Projects\GC9\Data\2008\mee041508\000101.dat

Acquisition Date : 4/15/2008 3:08:30 PM

Quantitation Date : 4/16/2008 2:41:07 PM

Last Method Update : 4/16/2008 2:22:33 PM

Method : \\gcserver\gcdata\Projects\GC9\Method\2008\mee041508.met

Sequence : \\gcserver\gcdata\Projects\GC9\Sequence\2008\mee041508A.seq

Data Description : {Data Description}

Instrument : GC9 (Offline)

Data Acquired By : sheneman

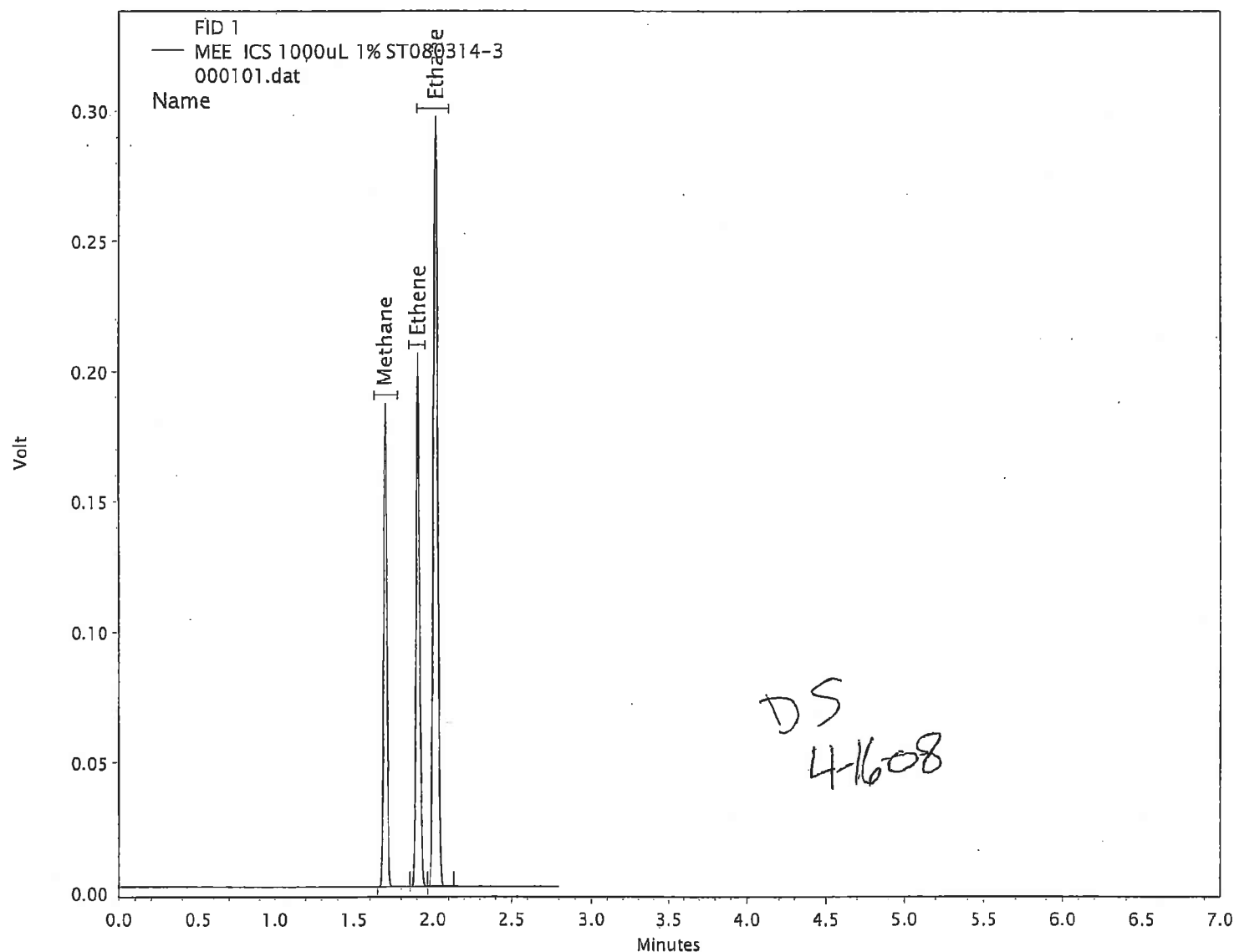
Data Processed By : sheneman

Inj. Vol. (uL) : 0

Vial : N/A

FID 1 Results

Compound Name	RT	Expected RT	Peak Area	Integration Codes	Conc.	Conc. Units
Methane	1.70	1.70	293898	BB	103% 144.05/139.955	ug/L
Ethene	1.91	1.90	339299	BV	103% 251.85/244.922	ug/L
Ethane	2.02	2.00	529639	VR	104% 273.34/262.416	ug/L



Dissolved Gases (RSK175) Quantitation Report

Paragon Analytics

Sample : CCS

Filename : \\gcserver\gcdata\Projects\GC9\Data\2008\mee112008\00763.dat

Acquisition Date : 11/20/2008 3:13:04 PM

Quantitation Date : 11/21/2008 9:23:34 AM

Last Method Update : 11/21/2008 9:20:12 AM

Method : \\gcserver\gcdata\Projects\GC9\Method\2008\mee041508E.met

Sequence : \\gcserver\gcdata\Projects\GC9\Sequence\2008\mee112008.seq

Data Description : {Data Description}

Instrument : GC9 (Offline)

Data Acquired By : knaebelt

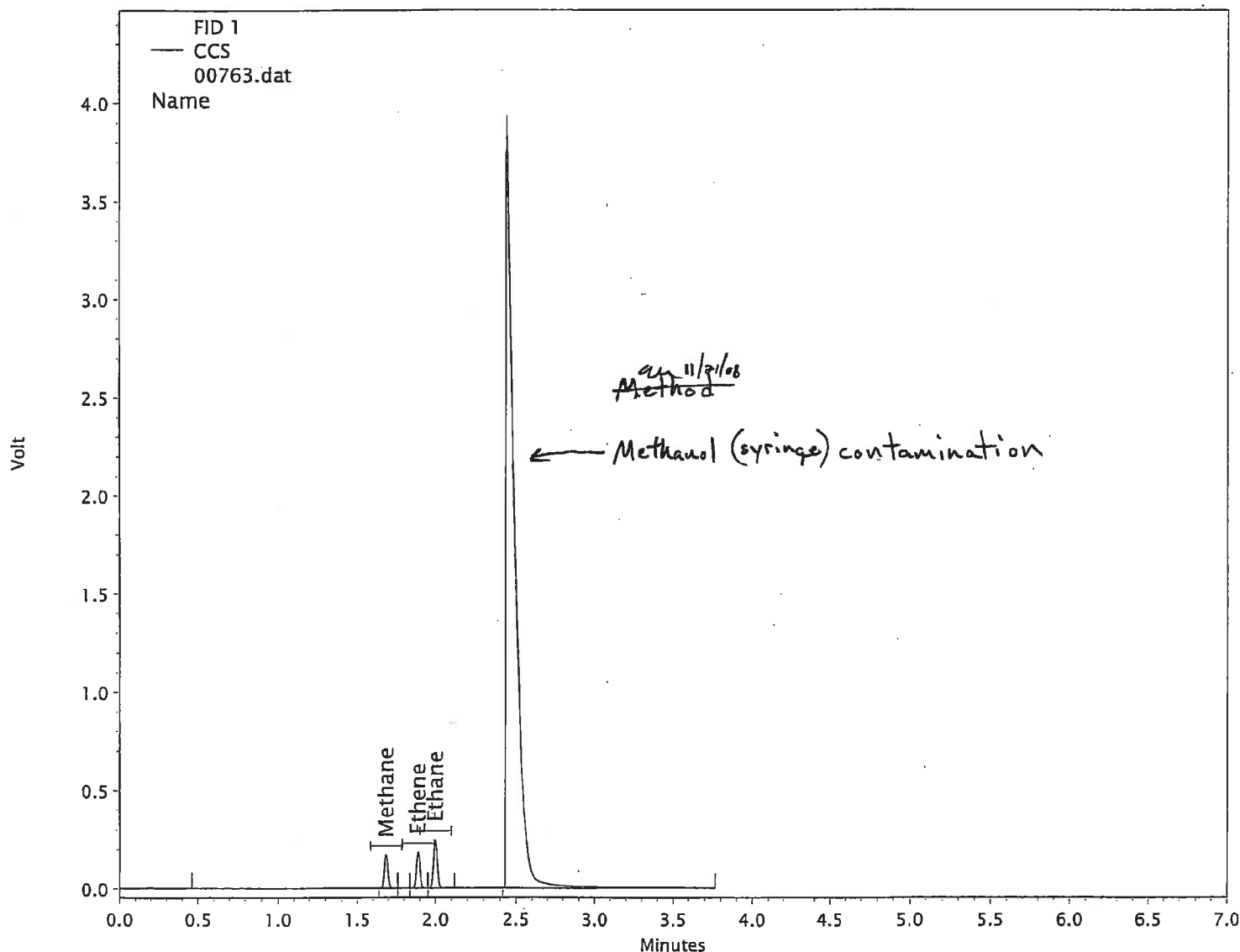
Data Processed By : knaebelt

Inj. Vol. (uL) : 300

Vial : N/A

FID 1 Results

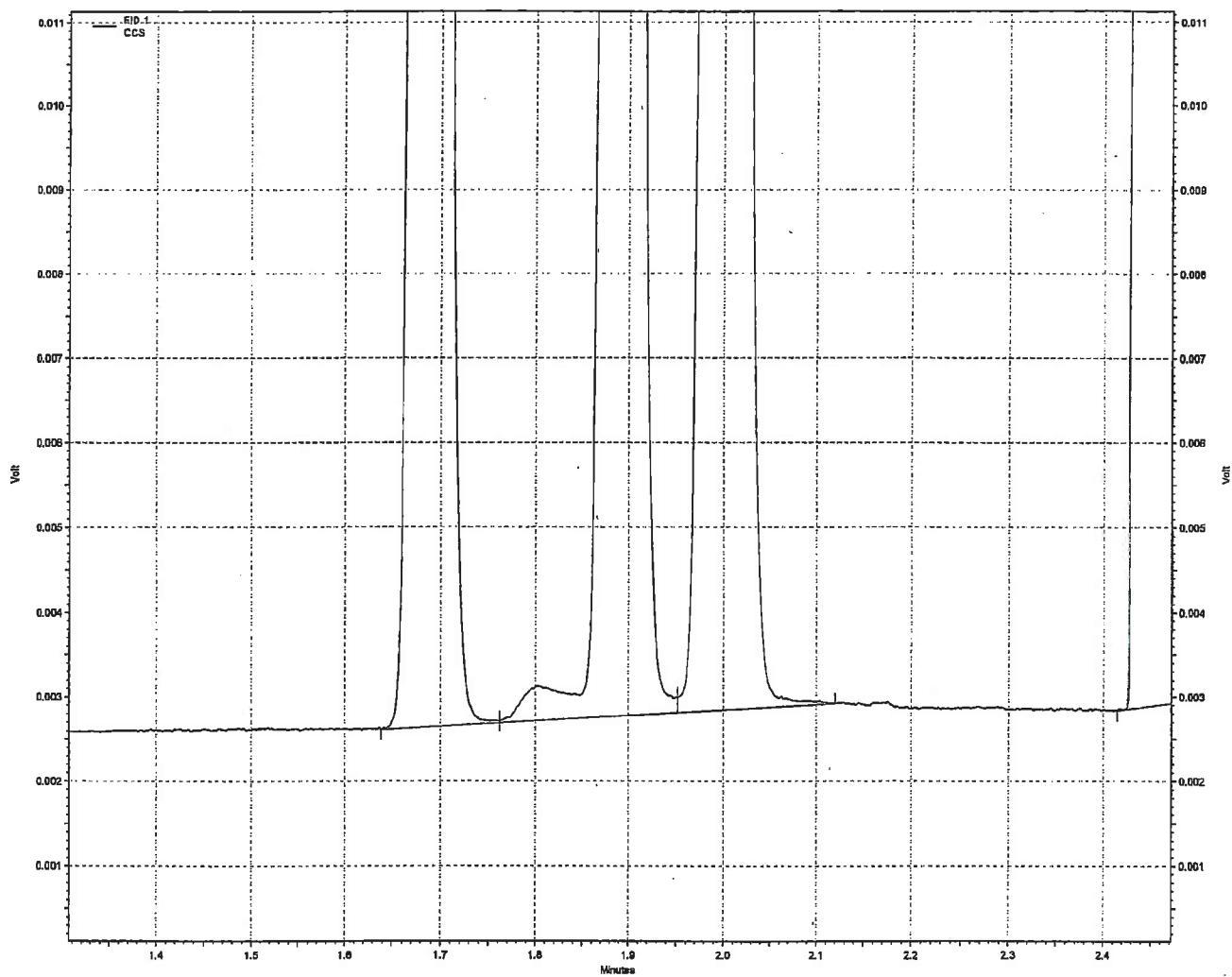
Compound Name	RT	Expected RT	Peak Area	Integration Codes	Concentration	Conc. Units
Methane	1.687	1.687	254627	BV	124.74	ug/L
Ethene	1.890	1.890	290870	xV	215.88	ug/L
Ethane	2.000	2.000	421621	VR	217.58	ug/L



Column : GS-Carbon Plot

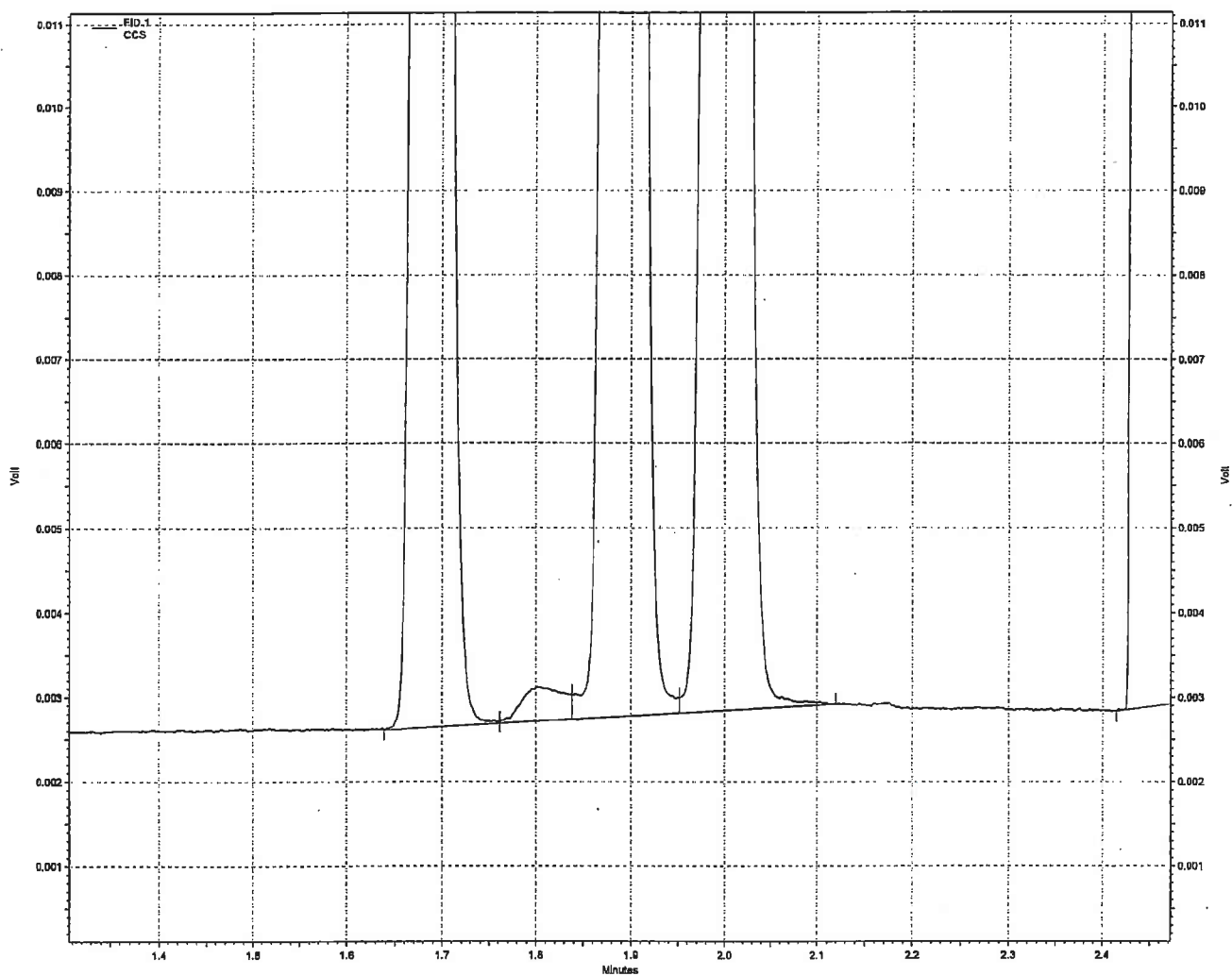
(1st int. code is for peak start, 2nd int code is for peak stop) B=baseline, f=force start or stop, l=ended by int. off event, N=begin negative peak, P=end negative peak, H=forward horiz, h=backward horiz, M=manual baseline or peak, m=move baseline start/stop, S=shoulder, T=tangent skim, V=valley, v=forced valley point, x=split peak, E=end of chromatogram encountered, R=reset baseline, L=lowest point horiz.

Printed On : 11/21/2008 9:23:37 AM



— \\gcserver\gcdata\Projects\GC9\Data\2008\mee112008\00763.dat, FID 1.

Before m 11/21/08



\\gcserver\gcdata\Projects\GC9\Data\2008\mee112008\00763.dat, FID 1

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other

initials m date 11/21/08

Dissolved Gases (RSK175) Quantitation Report

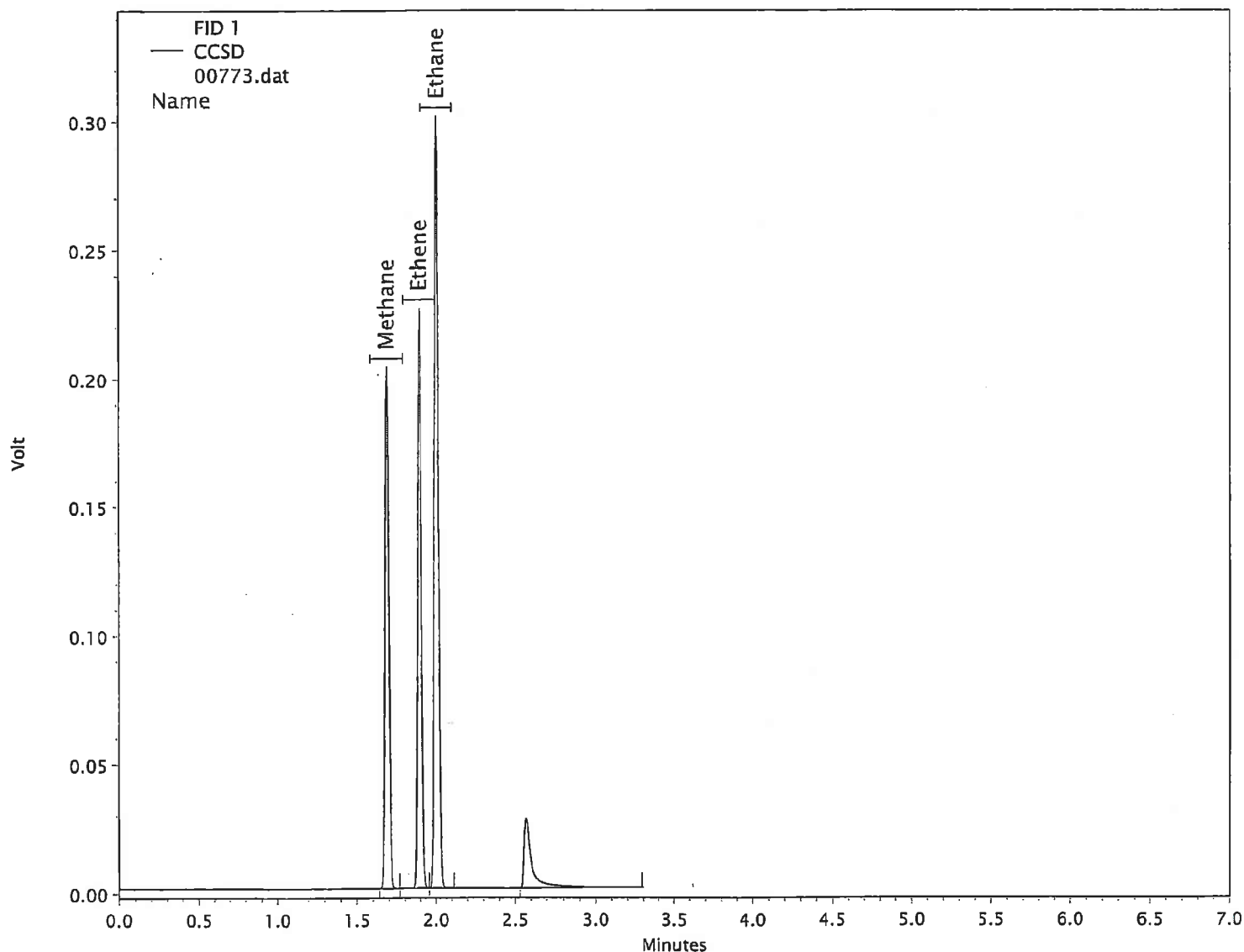
Paragon Analytics

Sample : CCSD
 Filename : \\gcserver\gcdata\Projects\GC9\Data\2008\mee112008\00773.dat
 Acquisition Date : 11/20/2008 5:11:25 PM
 Quantitation Date : 11/21/2008 9:24:40 AM
 Last Method Update : 11/21/2008 9:20:12 AM
 Method : \\gcserver\gcdata\Projects\GC9\Method\2008\mee041508E.met
 Sequence : \\gcserver\gcdata\Projects\GC9\Sequence\2008\mee112008.seq
 Data Description : {Data Description}

Instrument : GC9 (Offline)
 Data Acquired By : knaebelt
 Data Processed By : knaebelt
 Inj. Vol. (uL) : 300
 Vial : N/A

FID 1 Results

Compound Name	RT	Expected RT	Peak Area	Integration Codes	Concentration	Conc. Units
Methane	1.690	1.687	318775	BV	156.29 ✓	ug/L
Ethene	1.893	1.890	368591	VV	273.62 ✓	ug/L
Ethane	2.003	2.000	531806	VR	274.46 ✓	ug/L



Column : GS-Carbon Plot

(1st int. code is for peak start, 2nd int code is for peak stop) B=baseline, f=force start or stop, l=ended by int. off event, N=begin negative peak, P=end negative peak, H=forward horiz, h=backward horiz, M=manual baseline or peak, m=move baseline start/stop, S=shoulder, T=tangent skim, V=valley, v=forced valley point, x=split peak, E=end of chromatogram encountered, R=reset baseline, L=lowest point horiz.

Printed On : 11/21/2008 9:24:43 AM

Sample Raw Data

Dissolved Gases (RSK175) Quantitation Report

Paragon Analytics

Sample: HC081120-1MB

Filename: \\gcserver\gcdata\Projects\GC9\Data\2008\mee112008\00764.dat

Acquisition Date: 11/20/2008 3:37:31 PM

Quantitation Date: 11/21/2008 9:23:40 AM

Last Method Update: 11/21/2008 9:20:12 AM

Method: \\gcserver\gcdata\Projects\GC9\Method\2008\mee041508E.met

Sequence: \\gcserver\gcdata\Projects\GC9\Sequence\2008\mee112008.seq

Data Description: {Data Description}

Instrument: GC9 (Offline)

Data Acquired By: knaebelt

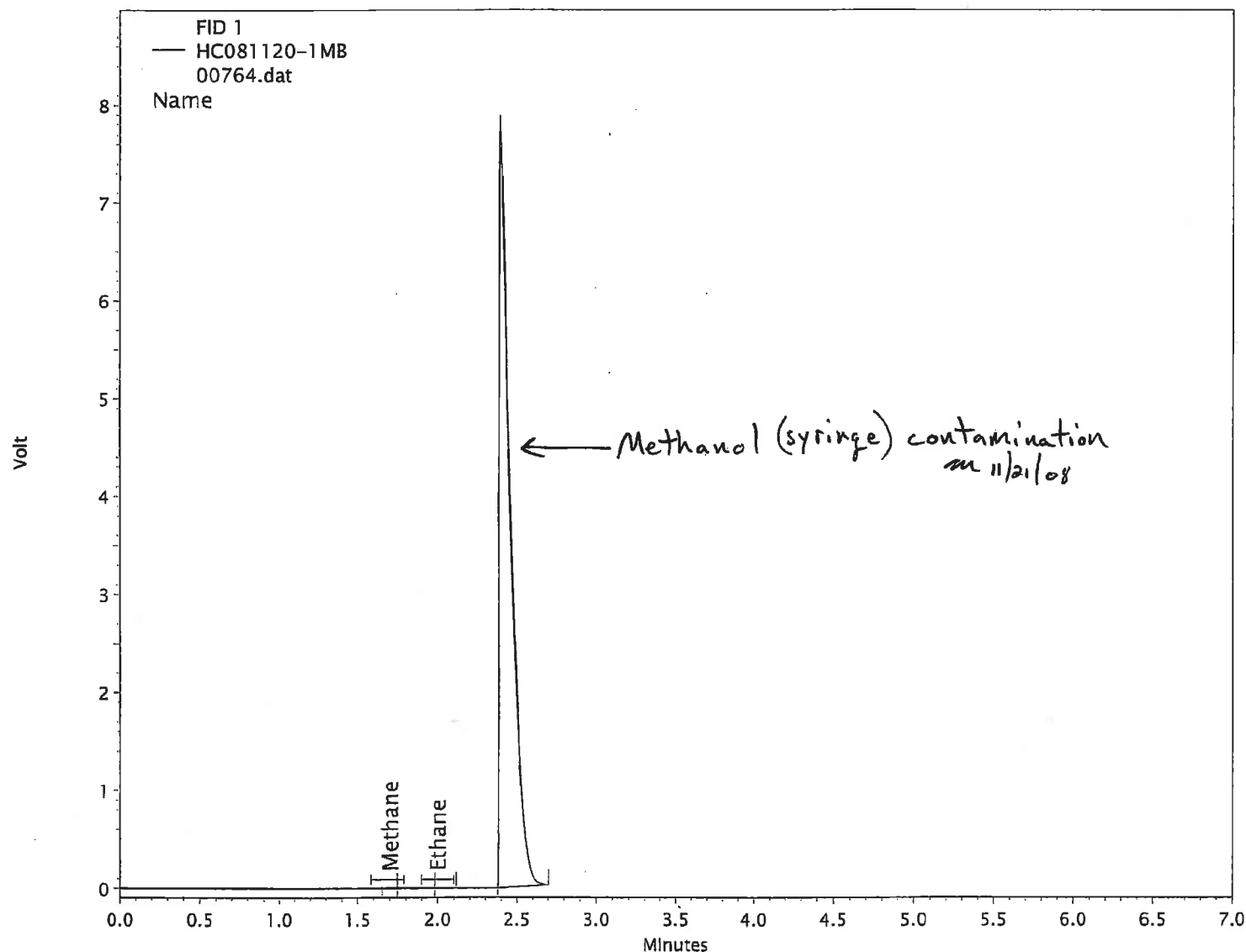
Data Processed By: knaebelt

Inj. Vol. (uL): 300

Vial: N/A

FID 1 Results

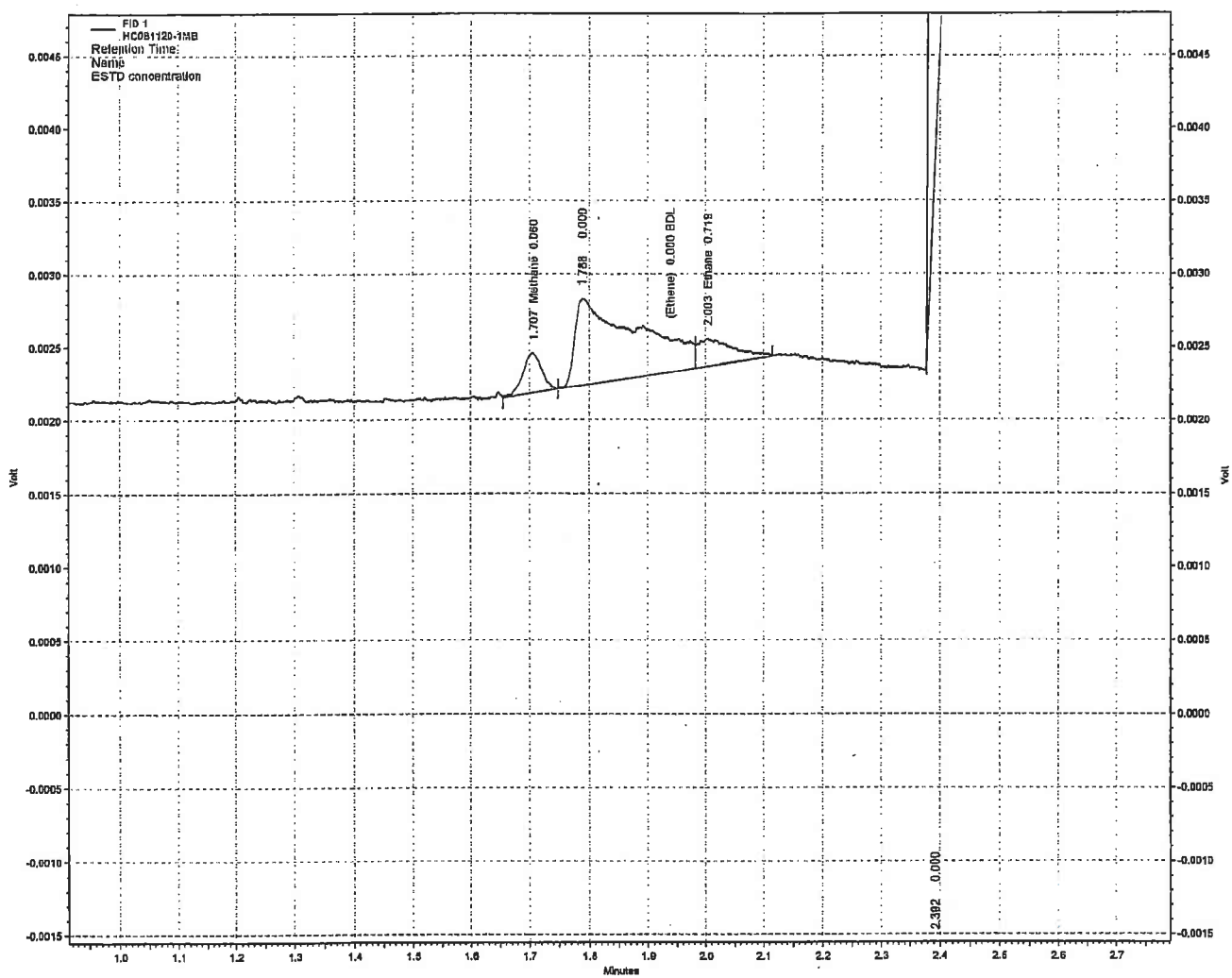
Compound Name	RT	Expected RT	Peak Area	Integration Codes	Concentration	Conc. Units
Methane	1.707	1.687	603	BB	0.06	ug/L
Ethene		1.890			0.00 BDL	ug/L
Ethane	2.003	2.000	815	VR	0.72	ug/L



Column: GS-Carbon Plot

(1st int. code is for peak start, 2nd int code is for peak stop) B=baseline, f=force start or stop, f=ended by int. off event, N=begin negative peak, P=end negative peak, H=forward horiz, h=backward horiz, M=manual baseline or peak, m=move baseline start/stop, S=shoulder, T=tangent skim, V=valley, v=forced valley point, x=split peak, E=end of chromatogram encountered, R=reset baseline, L=lowest point horiz.

Printed On: 11/21/2008 9:23:44 AM



\\gcserver\gcdata\Projects\GC9\Data\2008\mee112008\00764.dat, FID 1

Dissolved Gases (RSK175) Quantitation Report

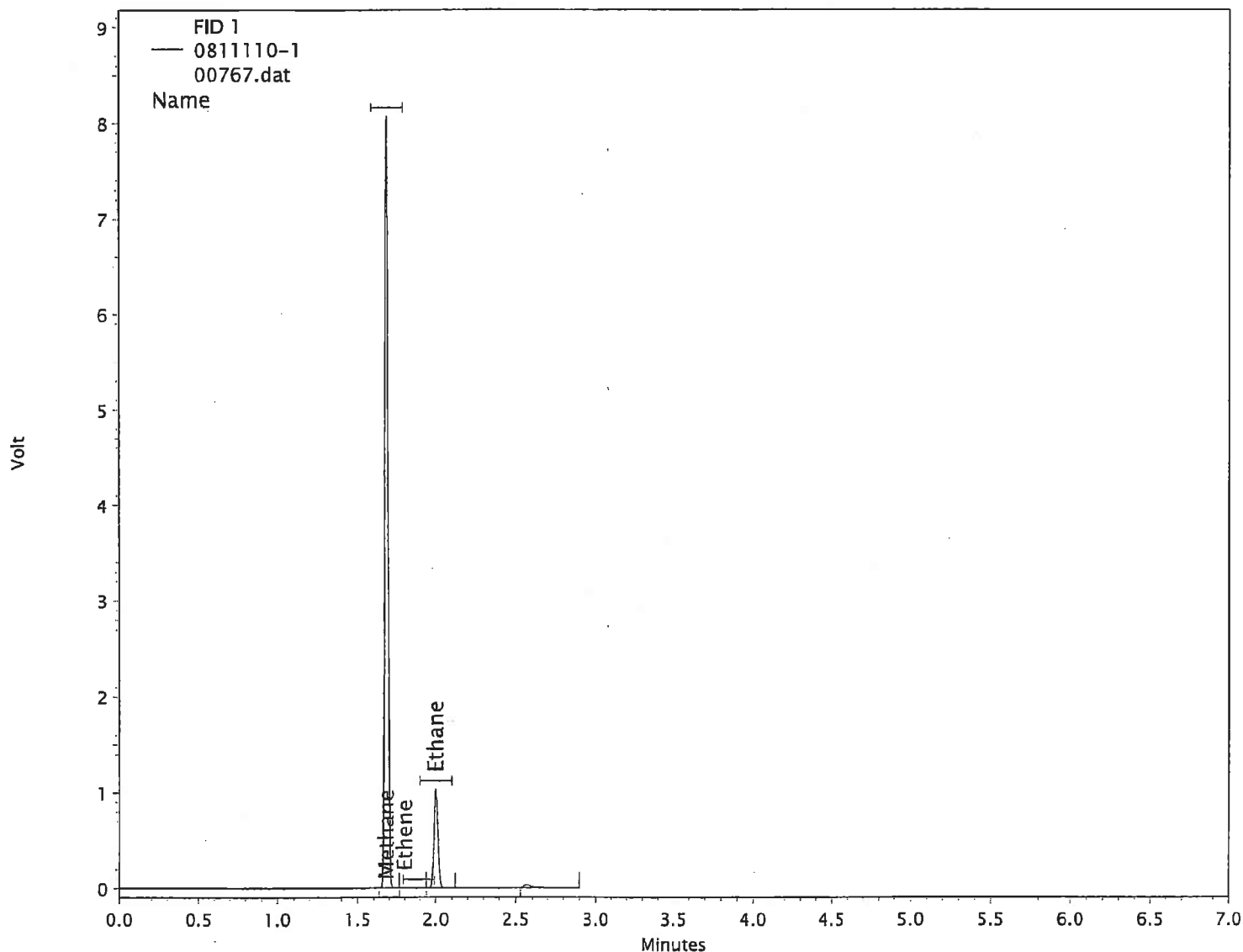
Paragon Analytics

Sample: 0811110-1
 Filename: \\gcserver\gcdata\Projects\GC9\Data\2008\mee112008\00767.dat
 Acquisition Date: 11/20/2008 4:20:17 PM
 Quantitation Date: 11/21/2008 9:24:00 AM
 Last Method Update: 11/21/2008 9:20:12 AM
 Method: \\gcserver\gcdata\Projects\GC9\Method\2008\mee041508E.met
 Sequence: \\gcserver\gcdata\Projects\GC9\Sequence\2008\mee112008.seq
 Data Description: {Data Description}

Instrument: GC9 (Offline)
 Data Acquired By: knaebelt
 Data Processed By: knaebelt
 Inj. Vol. (uL): 300
 Vial: N/A

FID 1 Results

Compound Name	RT	Expected RT	Peak Area	Integration Codes	Concentration	Conc. Units
Methane	1.683	1.687	10845426	BV	5690.11	ug/L
Ethene	1.802	1.890	1755	VV	1.52	ug/L
Ethane	2.000	2.000	1855524	VR	961.04	ug/L



Column: GS-Carbon Plot

(1st int. code is for peak start, 2nd int code is for peak stop) B=baseline, f=force start or stop, l=ended by Int. off event, N=begin negative peak, P=end negative peak, H=forward horiz, h=backward horiz, M=manual baseline or peak, m=move baseline start/stop, S=shoulder, T=tangent skim, V=valley, v=forced valley point, x=split peak, E=end of chromatogram encountered, R=reset baseline, L=lowest point horiz.

Printed On: 11/21/2008 9:24:04 AM

Dissolved Gases (RSK175) Quantitation Report

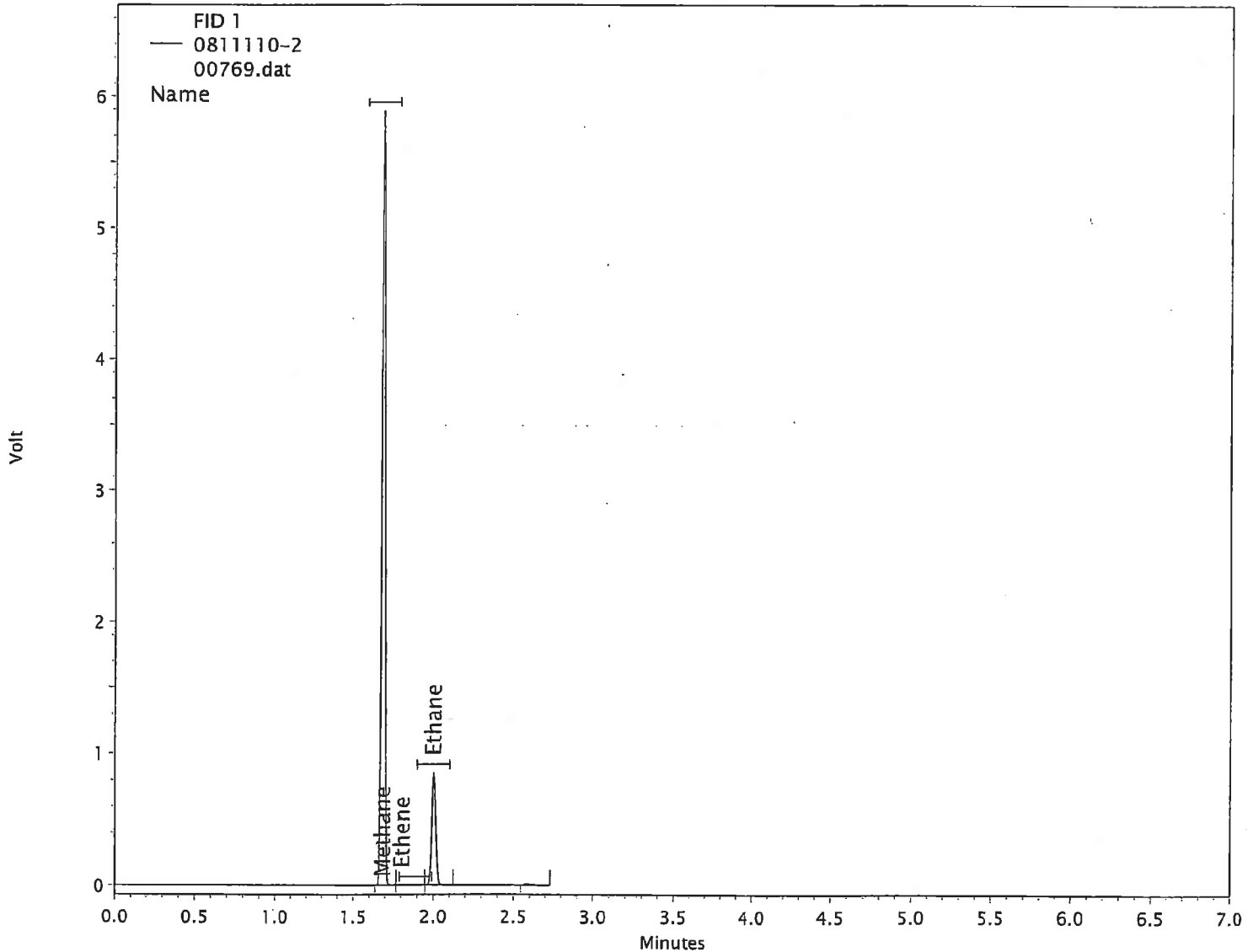
Paragon Analytics

Sample: 0811110-2
 Filename: \\gcserver\gcdata\Projects\GC9\Data\2008\mee112008\00769.dat
 Acquisition Date: 11/20/2008 4:33:13 PM
 Quantitation Date: 11/21/2008 9:24:14 AM
 Last Method Update: 11/21/2008 9:20:12 AM
 Method: \\gcserver\gcdata\Projects\GC9\Method\2008\mee041508E.met
 Sequence: \\gcserver\gcdata\Projects\GC9\Sequence\2008\mee112008.seq
 Data Description: {Data Description}

Instrument: GC9 (Offline)
 Data Acquired By: knaebelt
 Data Processed By: knaebelt
 Inj. Vol. (uL): 300
 Vial: N/A

FID 1 Results

Compound Name	RT	Expected RT	Peak Area	Integration Codes	Concentration	Conc. Units
Methane	1.685	1.687	7862739	BV	4042.63	ug/L
Ethene	1.808	1.890	1383	VV	1.24	ug/L
Ethane	2.002	2.000	1512388	VR	782.48	ug/L



Column: GS-Carbon Plot

(1st int. code is for peak start, 2nd int code is for peak stop) B=baseline, f=force start or stop, l=ended by int. off event, N=begin negative peak, P=end negative peak, H=forward horiz, h=backward horiz, M=manual baseline or peak, m=move baseline start/stop, S=shoulder, T=tangent skim, V=valley, v=forced valley point, x=split peak, E=end of chromatogram encountered, R=reset baseline, L=lowest point horiz.

Printed On: 11/21/2008 9:24:17 AM

Raw Data Quality Control Samples

Dissolved Gases (RSK175) Quantitation Report

Paragon Analytics

Sample : CCS

Filename : \\gcserver\gcdata\Projects\GC9\Data\2008\mee112008\00763.dat

Acquisition Date : 11/20/2008 3:13:04 PM

Quantitation Date : 11/21/2008 9:23:34 AM

Last Method Update : 11/21/2008 9:20:12 AM

Method : \\gcserver\gcdata\Projects\GC9\Method\2008\mee041508E.met

Sequence : \\gcserver\gcdata\Projects\GC9\Sequence\2008\mee112008.seq

Data Description : {Data Description}

Instrument : GC9 (Offline)

Data Acquired By : knaebelt

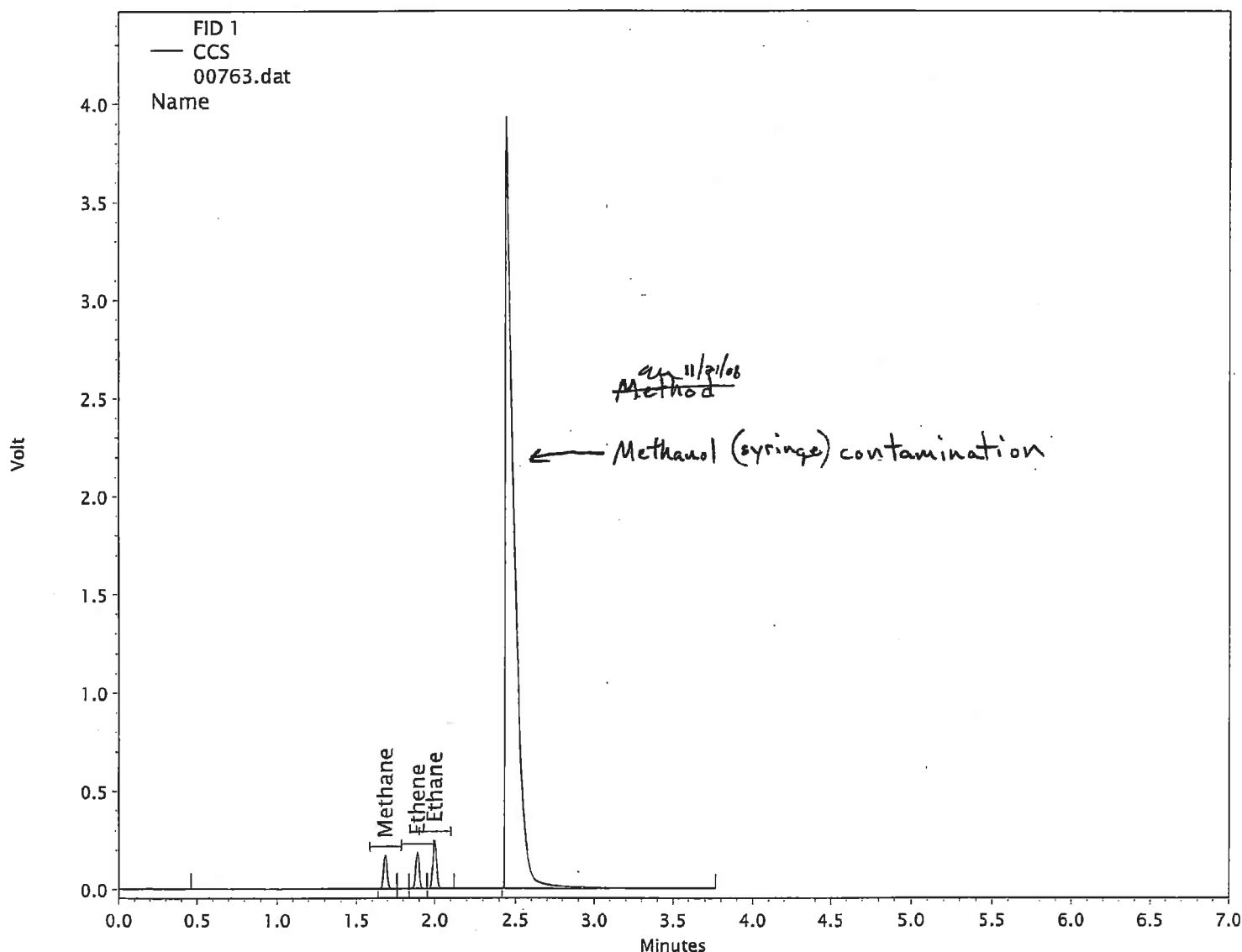
Data Processed By : knaebelt

Inj. Vol. (uL) : 300

Vial : N/A

FID 1 Results

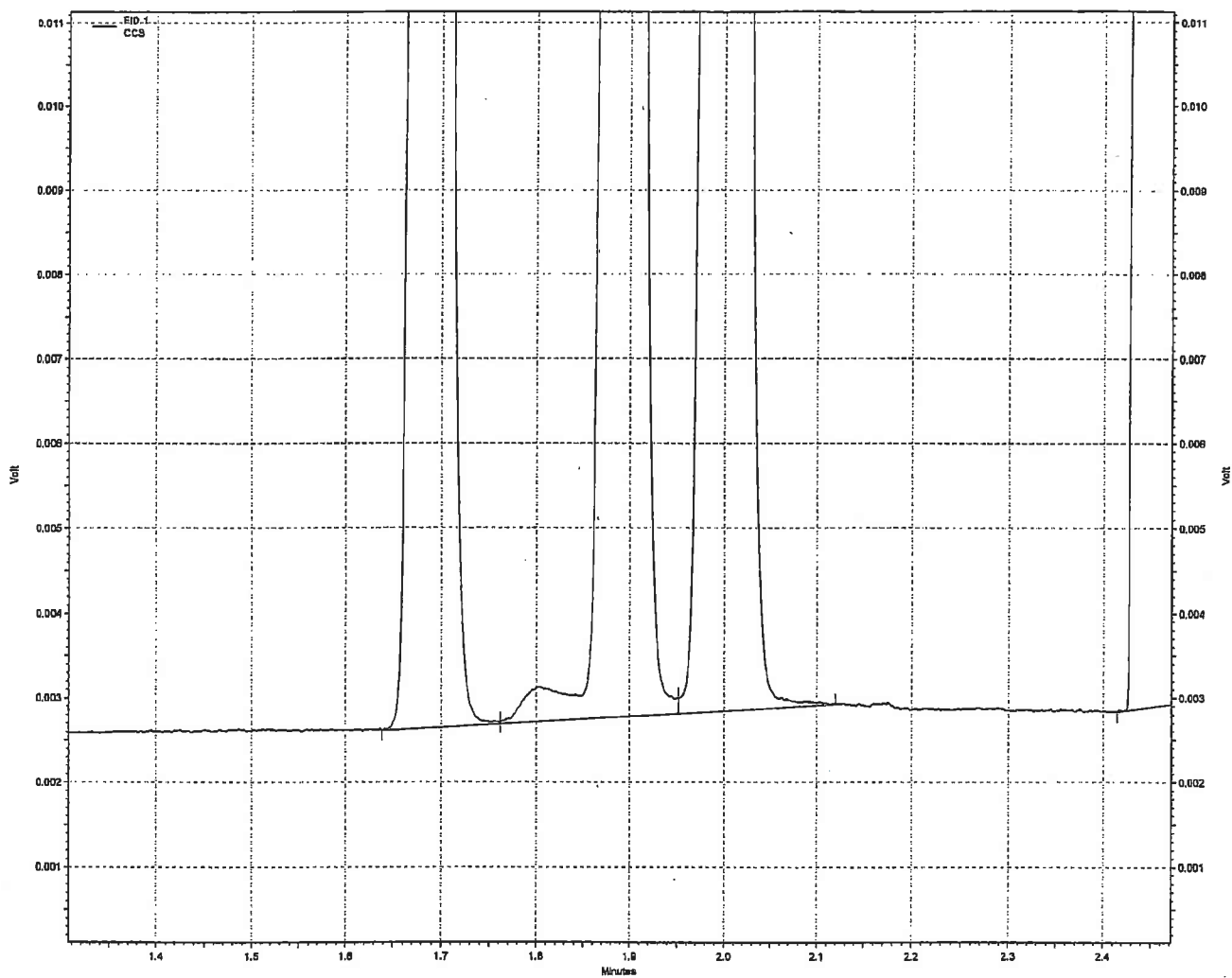
Compound Name	RT	Expected RT	Peak Area	Integration Codes	Concentration	Conc. Units
Methane	1.687	1.687	254627	BV	124.74	ug/L
Ethene	1.890	1.890	290870	xV	215.88	ug/L
Ethane	2.000	2.000	421621	VR	217.58	ug/L



Column : GS-Carbon Plot

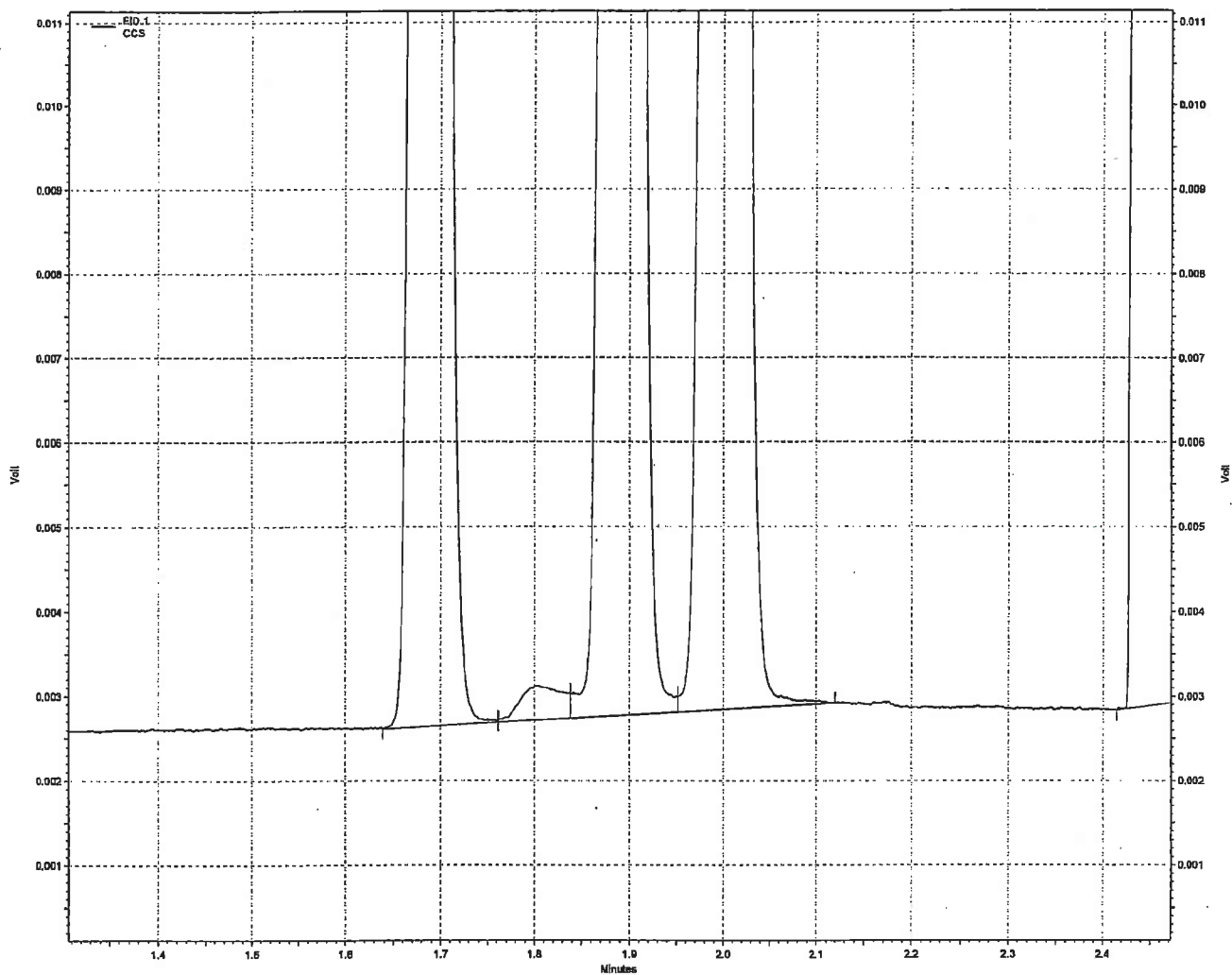
(1st int. code is for peak start, 2nd int code is for peak stop) B=baseline, f=force start or stop, l=ended by int. off event, N=begin negative peak, P=end negative peak, H=forward horiz, h=backward horiz, M=manual baseline or peak, m=move baseline start/stop, S=shoulder, T=tangent skim, V=valley, v=forced valley point, x=split peak, E=end of chromatogram encountered, R=reset baseline, L=lowest point horiz

Printed On : 11/21/2008 9:23:37 AM



\\gcserver\gcdata\Projects\GC9\Data\2008\mee112008\00763.dat, FID 1.

Before m 11/21/08



\\gcserver\gcdata\Projects\GC9\Data\2008\mee112008\00763.dat, FID 1

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other

initials m date 11/21/08

Dissolved Gases (RSK175) Quantitation Report

Paragon Analytics

Sample : CCSD

Filename : \\gcserver\gcdata\Projects\GC9\Data\2008\mee112008\00773.dat

Acquisition Date : 11/20/2008 5:11:25 PM

Quantitation Date : 11/21/2008 9:24:40 AM

Last Method Update : 11/21/2008 9:20:12 AM

Method : \\gcserver\gcdata\Projects\GC9\Method\2008\mee041508E.met

Sequence : \\gcserver\gcdata\Projects\GC9\Sequence\2008\mee112008.seq

Data Description : {Data Description}

Instrument : GC9 (Offline)

Data Acquired By : knaebelt

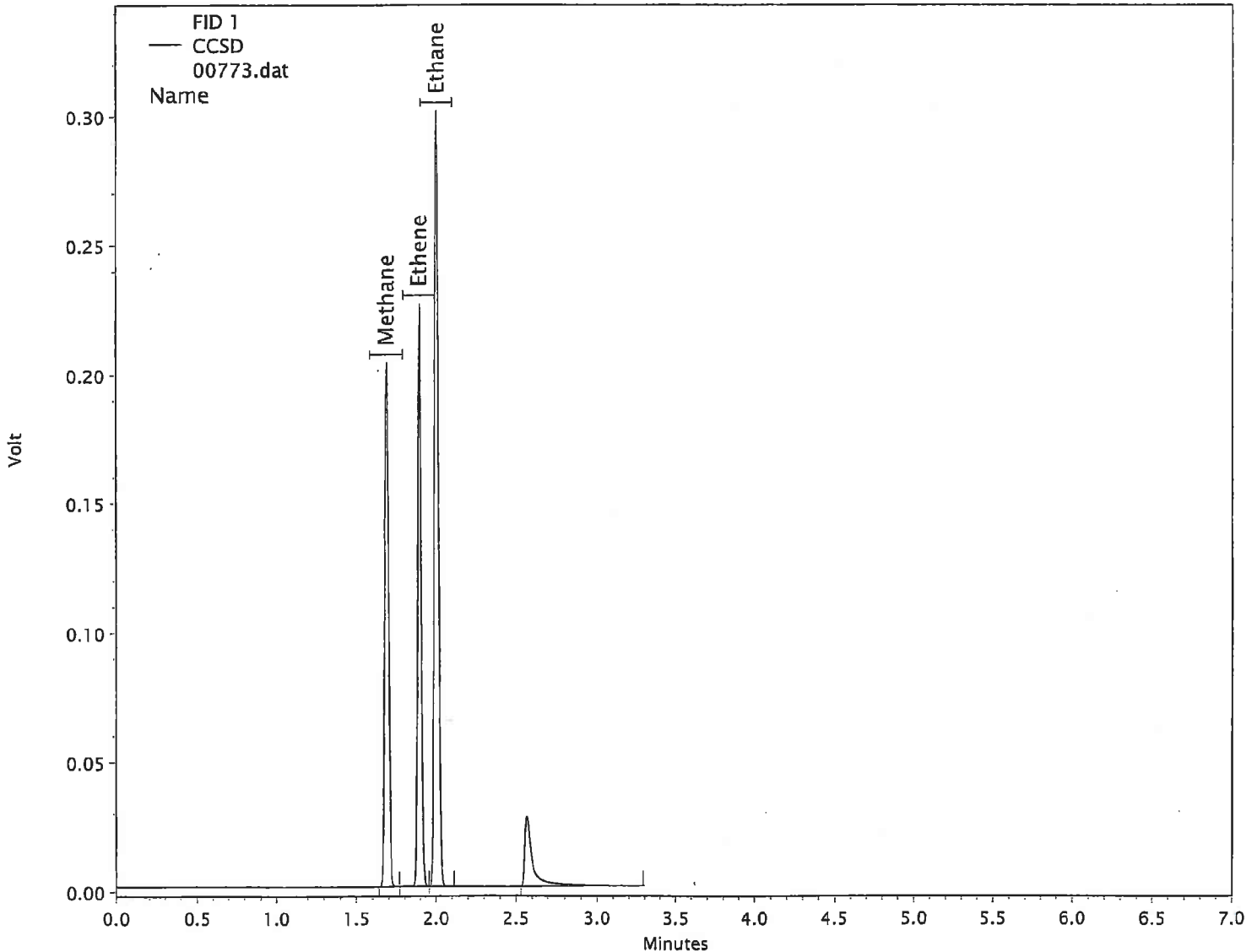
Data Processed By : knaebelt

Inj. Vol. (uL) : 300

Vial : N/A

FID 1 Results

<u>Compound Name</u>	<u>RT</u>	<u>Expected RT</u>	<u>Peak Area</u>	<u>Integration Codes</u>	<u>Concentration</u>	<u>Conc. Units</u>
Methane	1.690	1.687	318775	BV	156.29 ✓	ug/L
Ethene	1.893	1.890	368591	VV	273.62 ✓	ug/L
Ethane	2.003	2.000	531806	VR	274.46 ✓	ug/L



Column : GS-Carbon Plot

(1st int. code is for peak start, 2nd int code is for peak stop) B=baseline, f=force start or stop, l=ended by int. off event, N=begin negative peak, P=end negative peak, H=forward horiz, h=backward horiz, M=manual baseline or peak, m=move baseline start/stop, S=shoulder, T=tangent skim, V=valley, v=forced valley point, x=split peak, E=end of chromatogram encountered, R=reset baseline, L=lowest point horiz.

Printed On : 11/21/2008 9:24:43 AM

Dissolved Gases (RSK175) Quantitation Report

Paragon Analytics

Sample : 0811110-1DUP

Filename : \\gcserver\gcdata\Projects\GC9\Data\2008\mee112008\00768.dat

Acquisition Date : 11/20/2008 4:24:18 PM

Quantitation Date : 11/21/2008 9:24:07 AM

Last Method Update : 11/21/2008 9:20:12 AM

Method : \\gcserver\gcdata\Projects\GC9\Method\2008\mee041508E.met

Sequence : \\gcserver\gcdata\Projects\GC9\Sequence\2008\mee112008.seq

Data Description : {Data Description}

Instrument : GC9 (Offline)

Data Acquired By : knaebelt

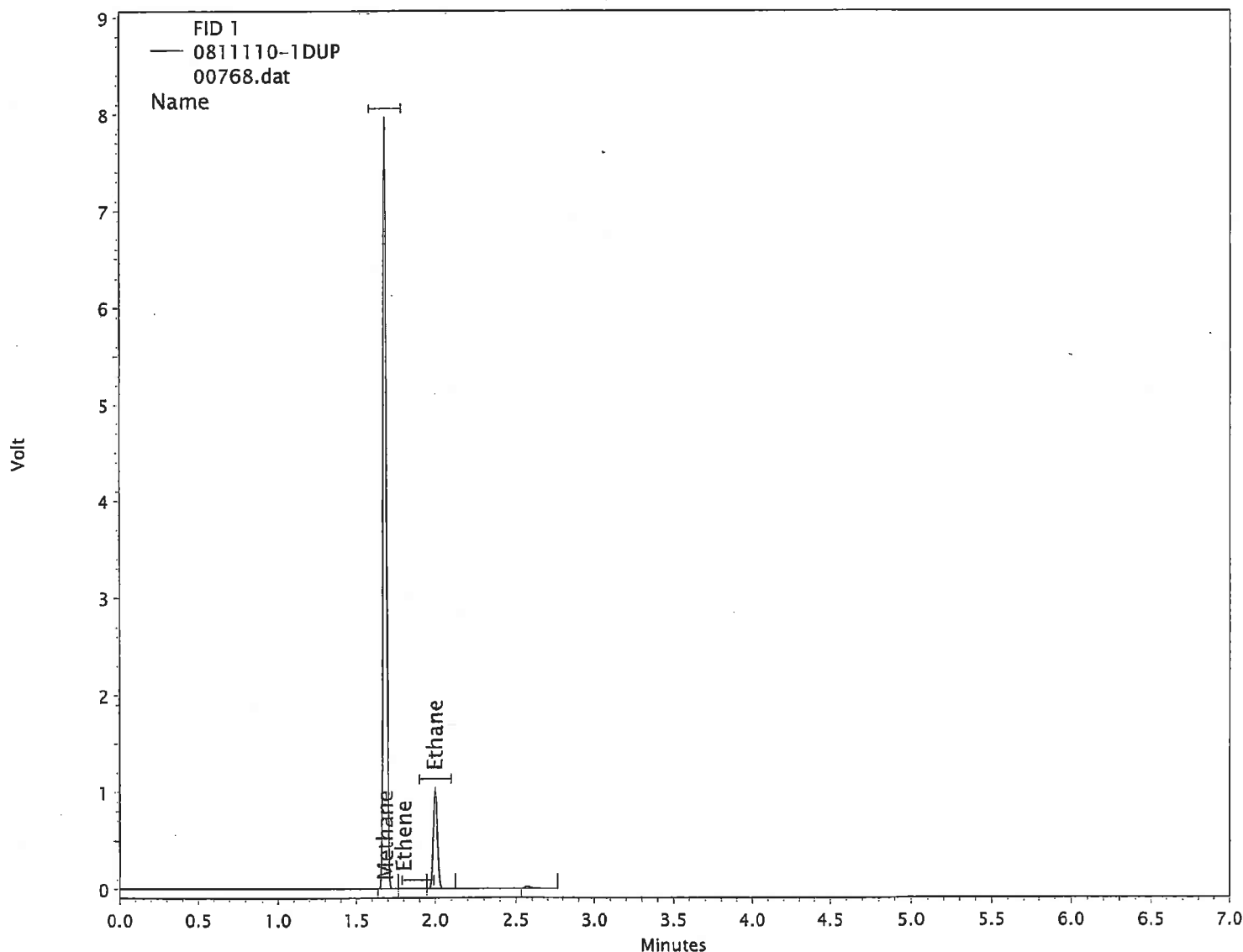
Data Processed By : knaebelt

Inj. Vol. (uL) : 300

Vial : N/A

FID 1 Results

Compound Name	RT	Expected RT	Peak Area	Integration Codes	Concentration	Conc. Units
Methane	1.685	1.687	10807144	BV	5668.51 ✓	ug/L
Ethene	1.803	1.890	1910	VV	1.63 No	ug/L
Ethane	2.002	2.000	1878831	VR	973.18 ✓ NTC	ug/L



Column : GS-Carbon Plot

(1st int. code is for peak start, 2nd int code is for peak stop) B=baseline, f=force start or stop, l=ended by Int. off event, N=begin negative peak, P=end negative peak, H=forward horiz, h=backward horiz, M=manual baseline or peak, m=move baseline start/stop, S=shoulder, T=tangent skim, V=valley, v=forced valley point, x=split peak, E=end of chromatogram encountered, R=reset baseline, L=lowest point horiz.

Printed On : 11/21/2008 9:24:10 AM