

Data Path : W:\HPCHEM1\MSVOA D\DATA\VD092115\
 Data File : VD046814.D
 Acq On : 21 Sep 2015 18:26
 Operator : FY/SY
 Sample : G3748-04
 Misc : 10.23qm/5mL/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MGP205-10-12

Manual Integrations
 APPROVED

MMDadoda
 9/22/2015 12:41:26 PM

Quant Time: Sep 22 10:45:28 2015
 Quant Method : W:\HPCHEM1\MSVOA_D\METHOD\82D091815S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 18 15:47:18 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.29	168	110642	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.42	114	165803	50.00	ug/l	-0.02
63) Chlorobenzene-d5	11.57	117	124037	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	13.91	152	41038	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.71	65	63883	55.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.06%	
35) Dibromofluoromethane	6.19	113	68129	52.52	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	105.04%	
50) Toluene-d8	9.60	98	198474	48.50	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	97.00%	
62) 4-Bromofluorobenzene	12.84	95	57533	34.91	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	69.82%	
Target Compounds						
					Qvalue	
17) Acetone	2.94	43	10866	55.90	ug/l #	83
18) Carbon Disulfide	3.12	76	158177	47.64	ug/l	100
21) Methylene Chloride	3.49	84	1912	1.81	ug/l	97
39) Methylcyclohexane	8.07	83	60168	30.65	ug/l	100
40) Benzene	6.72	78	9682216	1957.44	ug/l	98
52) Toluene	9.70	92	1328750	435.49	ug/l	97
67) Ethyl Benzene	11.72	91	10852713	2069.02	ug/l #	83
68) m/p-Xylenes	11.87	106	2992608	1808.88	ug/l	92
69) o-Xylene	12.29	106	2726412	1830.70	ug/l	86
73) Isopropylbenzene	12.66	105	1525702	527.40	ug/l	97
78) n-propylbenzene	13.06	91	774513	189.59	ug/l	96
80) 1,3,5-Trimethylbenzene	13.24	105	1772009	768.68	ug/l	99
84) 1,2,4-Trimethylbenzene	13.59	105	5325752	2294.99	ug/l	94
85) sec-Butylbenzene	13.72	105	45555m	14.91	ug/l	
86) p-Isopropyltoluene	13.86	119	358982	149.49	ug/l	92
95) Naphthalene	15.83	128	24830305	27216.25	ug/l #	65

(#) = qualifier out of range (m) = manual integration (+) = signals summed

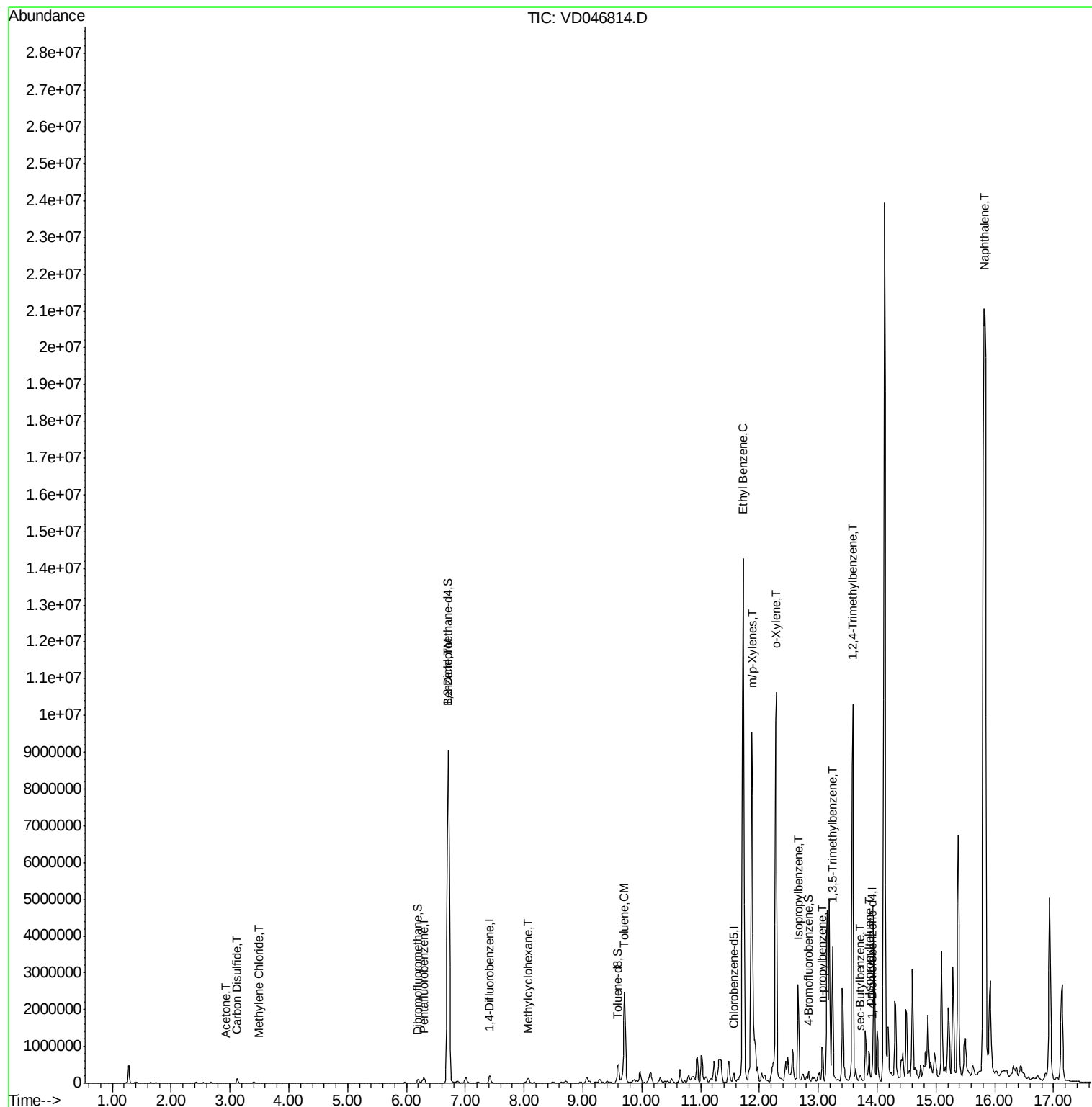
Data Path : W:\HPCHEM1\MSVOA D\DATA\VD092115\
Data File : VD046814.D
Acq On : 21 Sep 2015 18:26
Operator : FY/SY
Sample : G3748-04
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ALS Vial : 18 Sample Multiplier: 1

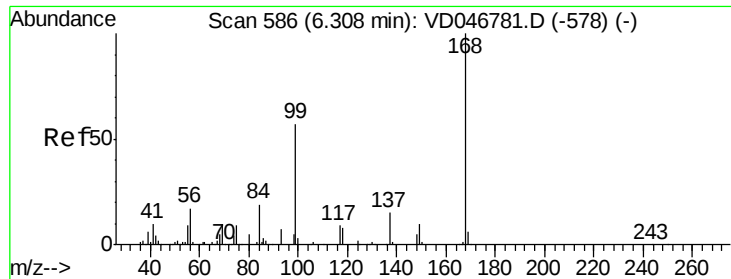
Instrument :
MSVOA_D
ClientSampleId :
MGP205-10-12

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Quant Time: Sep 22 10:45:28 2015
Quant Method : W:\HPCHEM1\MSVOA_D\METHOD\82D091815S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 18 15:47:18 2015
Response via : Initial Calibration





#1

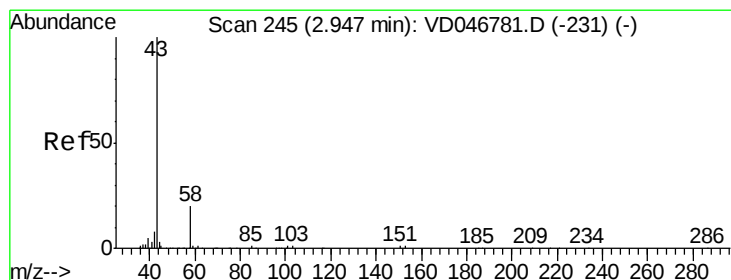
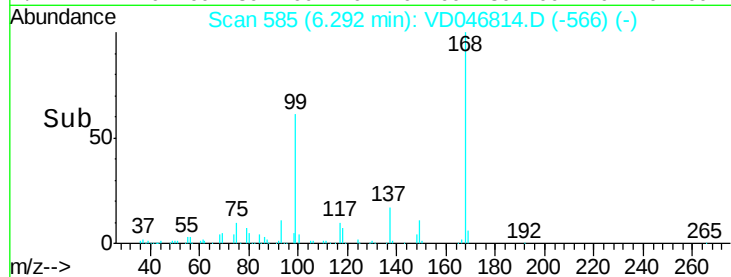
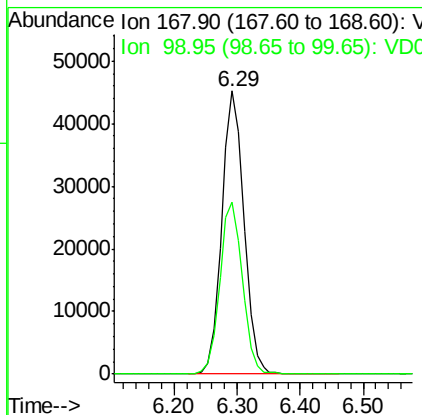
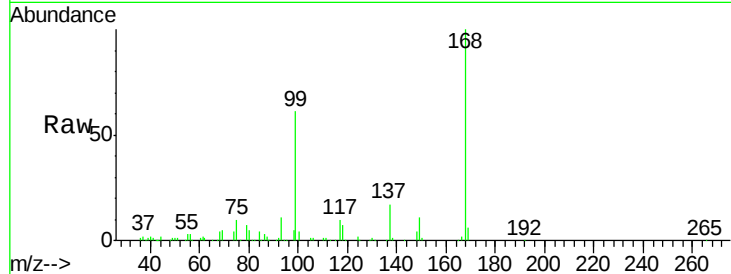
Pentafluorobenzene
 Concen: 50.00 ug/l
 RT: 6.29 min Scan# 585
 Delta R.T. -0.02 min
 Lab File: VD046814.D
 Acq: 21 Sep 2015 18:26

Instrument :
 MSVOA_D
 ClientSampleId :
 MGP205-10-12

Tot Ion	Ratio	Resp	Lower	Upper
168	100			
99	60.8	42.4	63.6	

Manual Integrations
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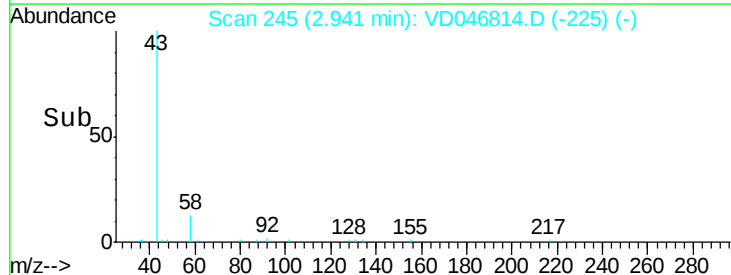
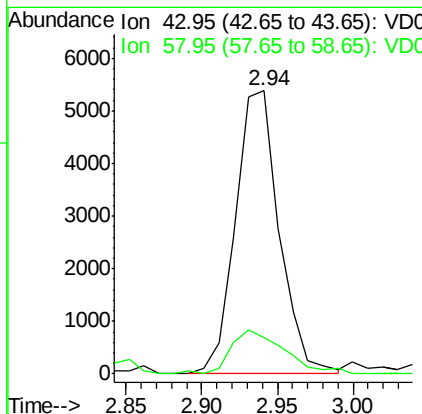
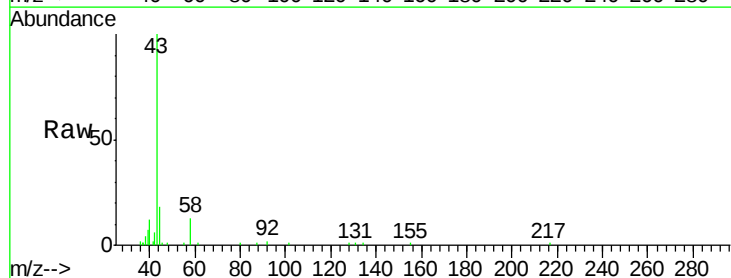
MMDadoda
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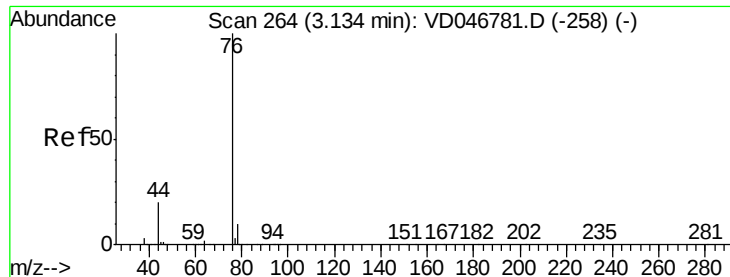


#17

Acetone
 Concen: 55.90 ug/l
 RT: 2.94 min Scan# 245
 Delta R.T. -0.01 min
 Lab File: VD046814.D
 Acq: 21 Sep 2015 18:26

Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
58	12.8	16.6	24.8	





#18

Carbon Disulfide

Concen: 47.64 ug/l

RT: 3.12 min Scan# 263

Delta R.T. -0.02 min

Lab File: VD046814.D

Acq: 21 Sep 2015 18:26

Instrument :

MSVOA_D

ClientSampleId :

MGP205-10-12

Tot Ion: 76 Resp: 158177

Ion Ratio Lower Upper

76 100

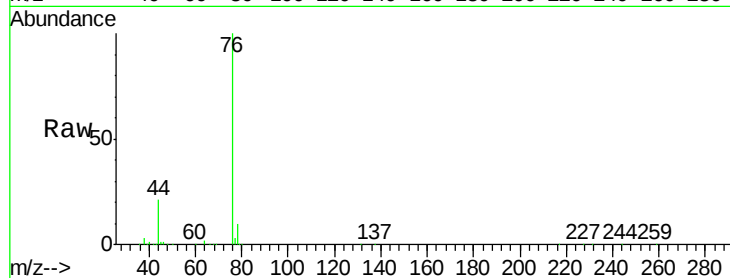
78 9.9 8.0 12.0

Manual Integrations

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Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.12

100000

80000

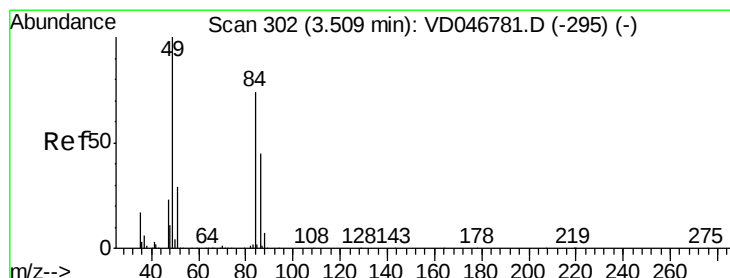
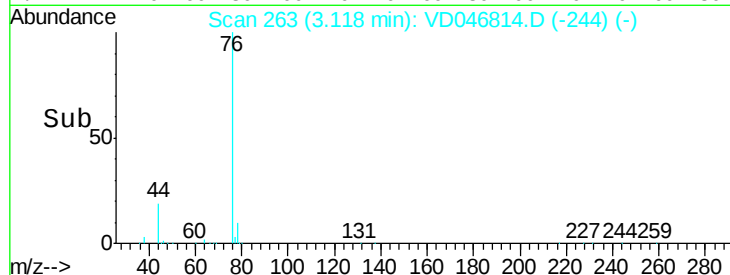
60000

40000

20000

0

Time-->



#21

Methylene Chloride

Concen: 1.81 ug/l

RT: 3.49 min Scan# 301

Delta R.T. -0.02 min

Lab File: VD046814.D

Acq: 21 Sep 2015 18:26

Tgt Ion: 84 Resp: 1912

Ion Ratio Lower Upper

84 100

49 152.6 122.1 183.1

51 34.7 33.6 50.4

86 65.5 48.3 72.5

Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

2000

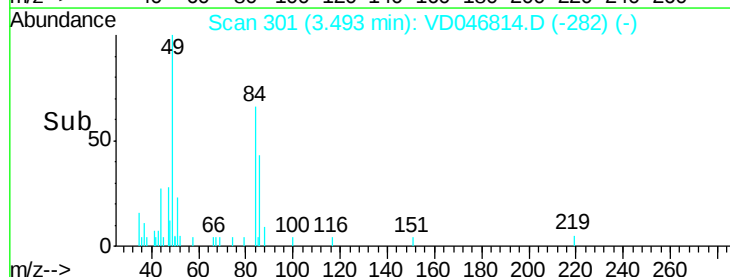
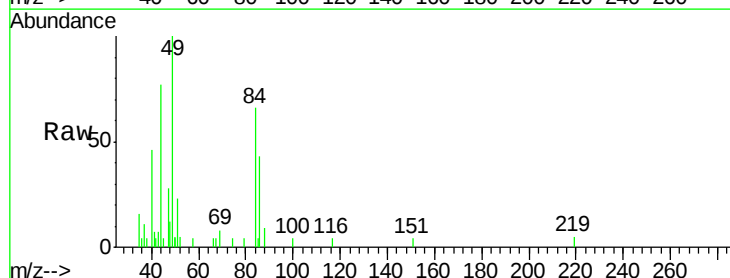
1500

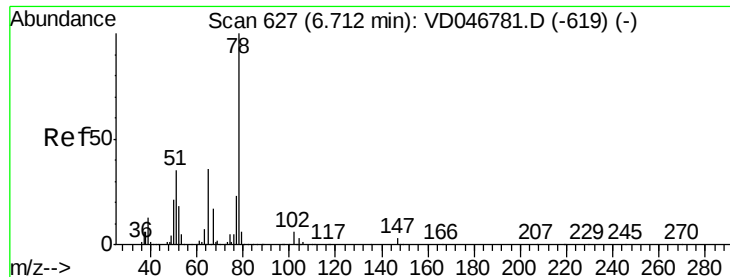
1000

500

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 6.71 min Scan# 627

Delta R.T. -0.01 min

Lab File: VD046814.D

Acq: 21 Sep 2015 18:26

Tot Ion: 65 Resp: 63883

Ion Ratio Lower Upper

65 100

67 46.7 0.0 105.4

Instrument :

MSVOA_D

ClientSampleId :

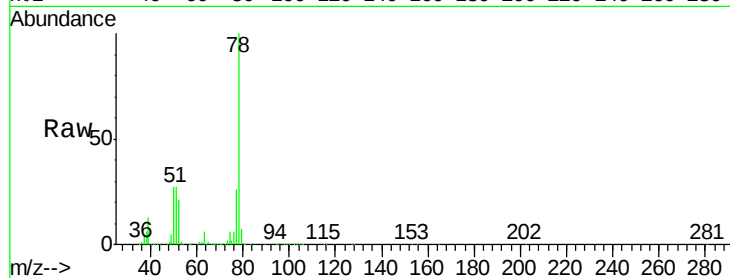
MGP205-10-12

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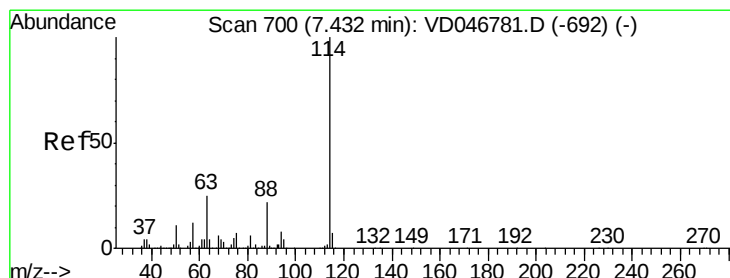
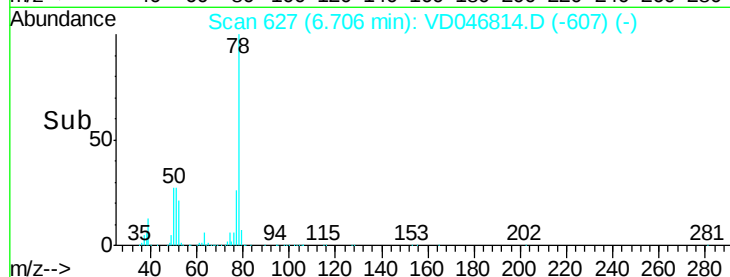
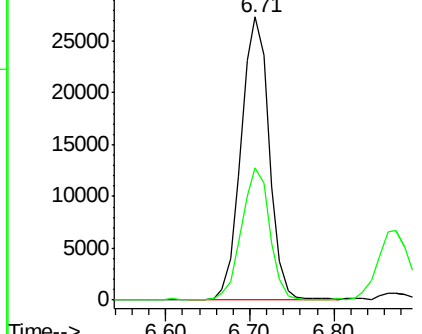
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Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 7.42 min Scan# 699

Delta R.T. -0.02 min

Lab File: VD046814.D

Acq: 21 Sep 2015 18:26

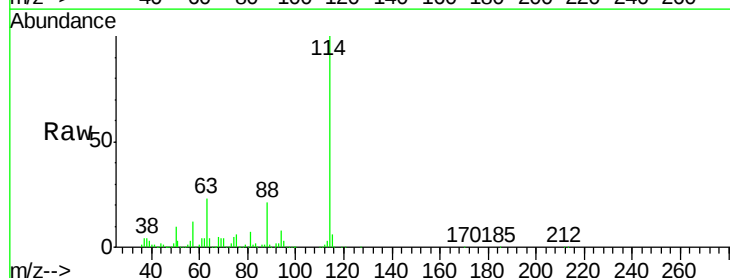
Tgt Ion: 114 Resp: 165803

Ion Ratio Lower Upper

114 100

63 23.4 0.0 49.8

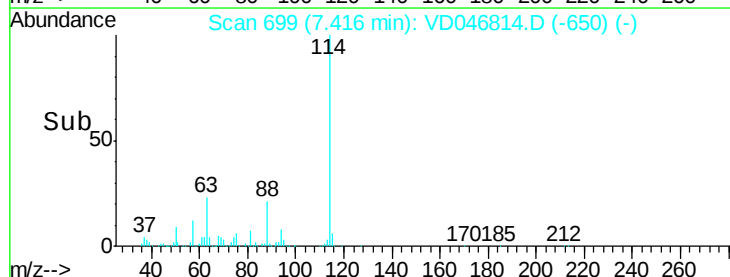
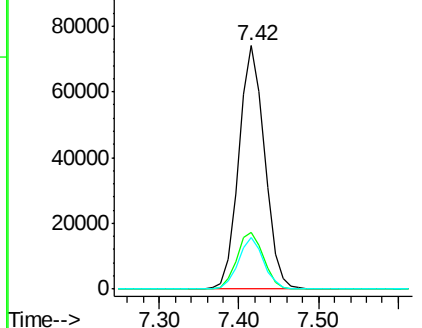
88 21.3 0.0 43.6

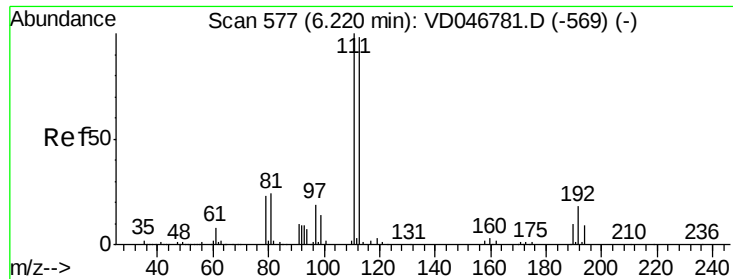


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





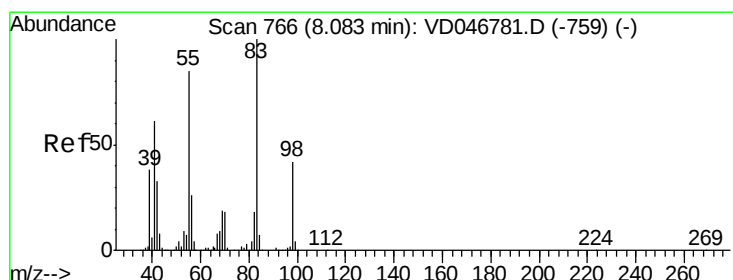
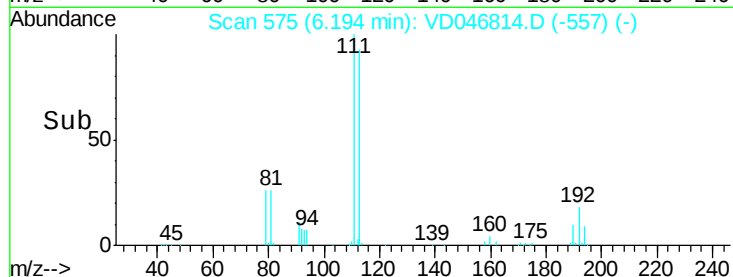
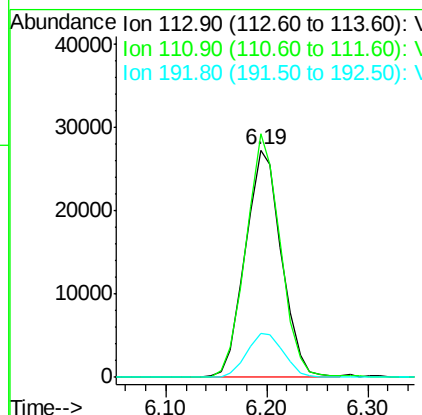
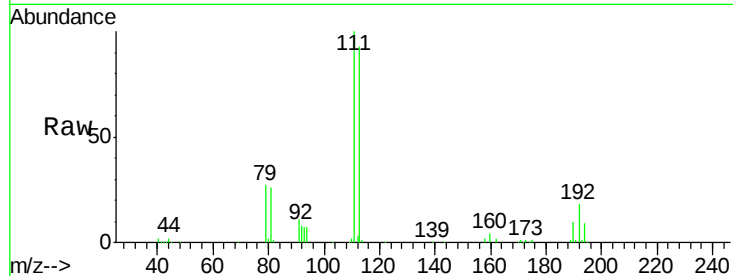
#35
Dibromofluoromethane
Concen: 50.00 ug/l
RT: 6.19 min Scan# 575
Delta R.T. -0.03 min
Lab File: VD046814.D
Acq: 21 Sep 2015 18:26

Instrument :
MSVOA_D
ClientSampleId :
MGP205-10-12

Tot Ion	Ratio	Resp	Lower	Upper
113	100	68129		
111	107.1	79.4	119.0	
192	19.3	14.6	22.0	

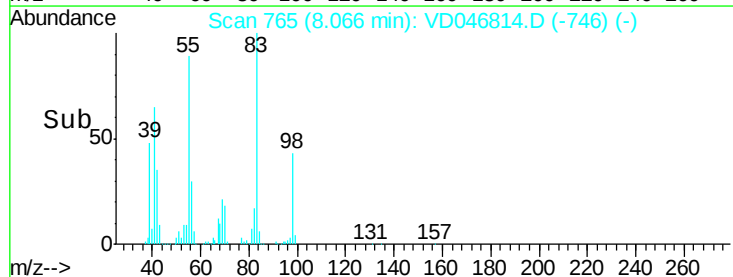
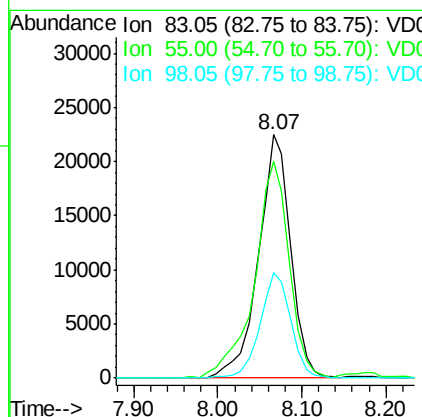
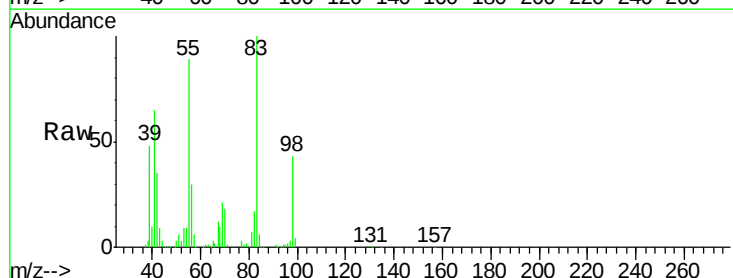
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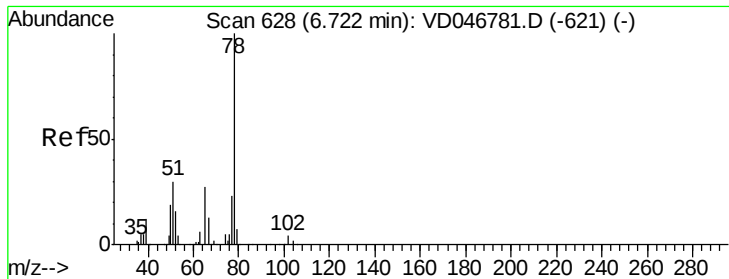
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#39
Methylcyclohexane
Concen: 30.65 ug/l
RT: 8.07 min Scan# 765
Delta R.T. -0.02 min
Lab File: VD046814.D
Acq: 21 Sep 2015 18:26

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	60168		
55	88.9	71.1	106.7	
98	43.2	34.6	51.8	





#40

Benzene

Concen: 1957.44 ug/l

RT: 6.72 min Scan# 628

Delta R.T. -0.01 min

Lab File: VD046814.D

Acq: 21 Sep 2015 18:26

Instrument :

MSVOA_D

ClientSampleId :

MGP205-10-12

Tot Ion: 78 Resp: 9682216

Ion Ratio Lower Upper

78 100

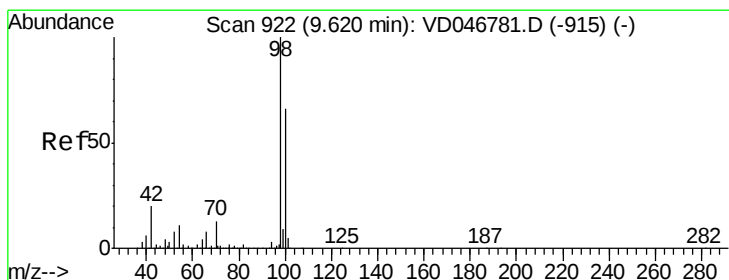
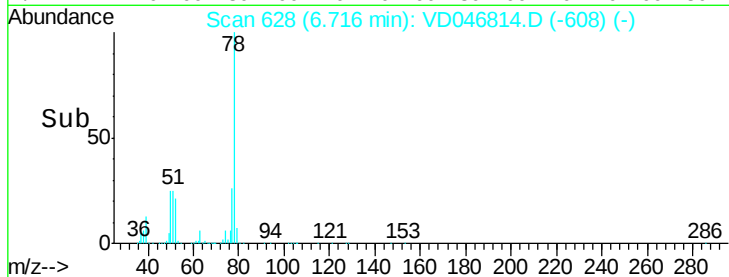
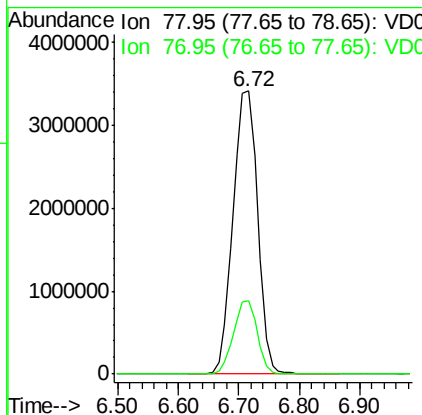
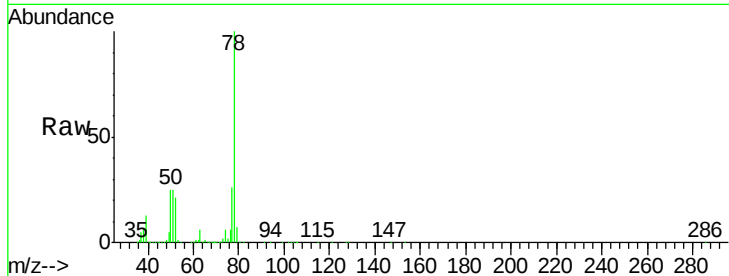
77 26.0 19.9 29.9

Manual Integrations

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#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.60 min Scan# 921

Delta R.T. -0.02 min

Lab File: VD046814.D

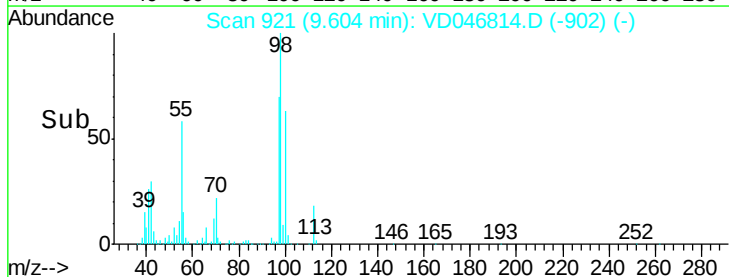
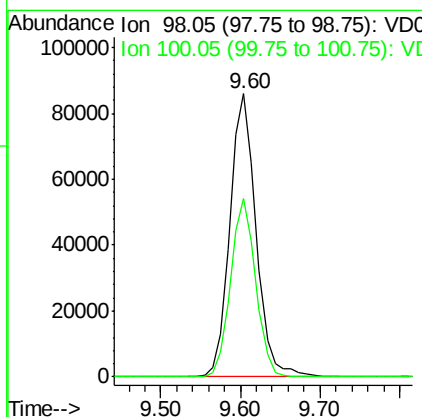
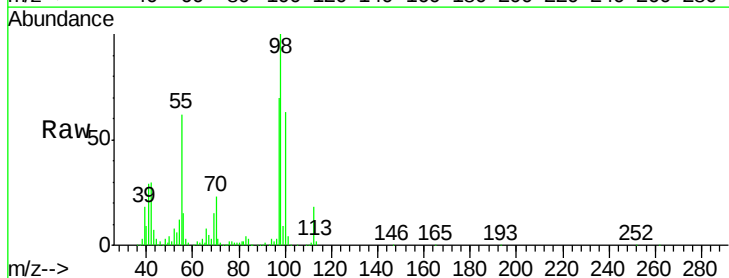
Acq: 21 Sep 2015 18:26

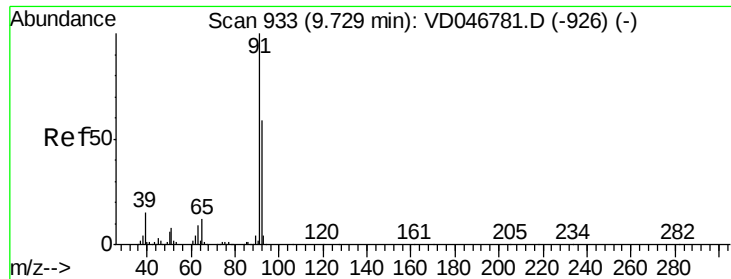
Tgt Ion: 98 Resp: 198474

Ion Ratio Lower Upper

98 100

100 63.1 49.9 74.9





#52

Toluene

Concen: 435.49 ug/l

RT: 9.70 min Scan# 931

Delta R.T. -0.03 min

Lab File: VD046814.D

Acq: 21 Sep 2015 18:26

Instrument :

MSVOA_D

ClientSampleId :

MGP205-10-12

Tot Ion: 92 Resp: 1328750

Ion Ratio Lower Upper

92 100

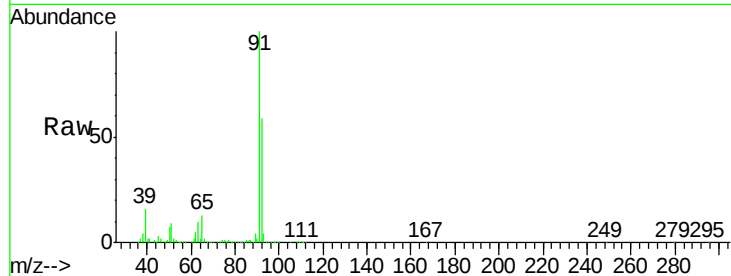
91 170.1 139.4 209.0

Manual Integrations

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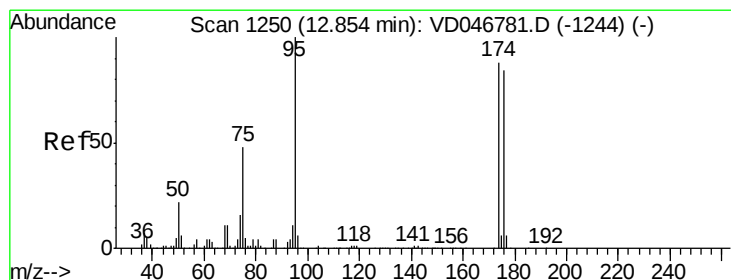
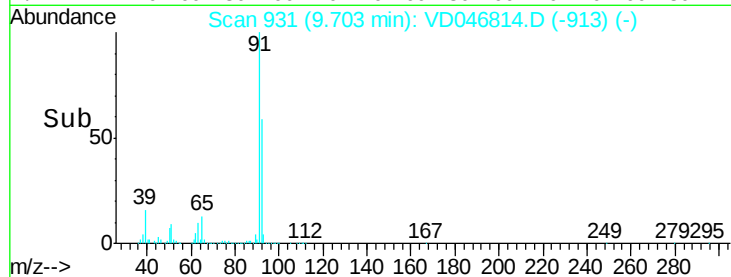
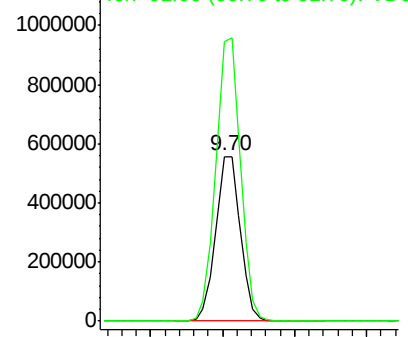
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Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.84 min Scan# 1249

Delta R.T. -0.02 min

Lab File: VD046814.D

Acq: 21 Sep 2015 18:26

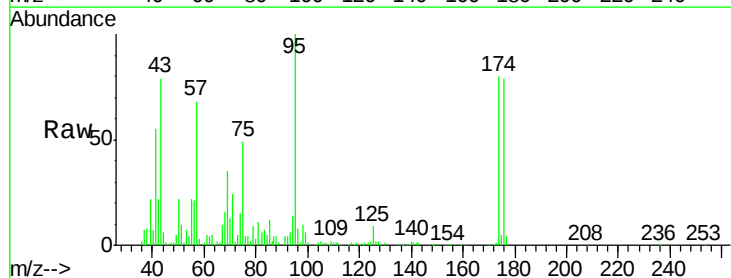
Tgt Ion: 95 Resp: 57533

Ion Ratio Lower Upper

95 100

174 80.2 0.0 149.8

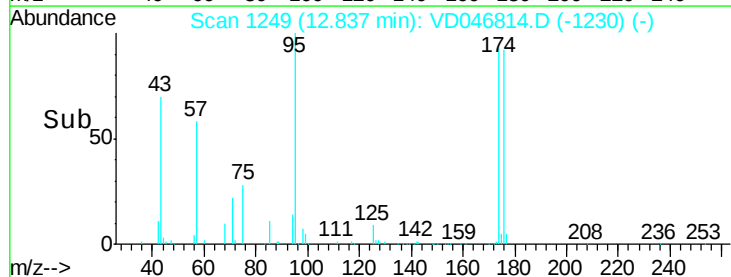
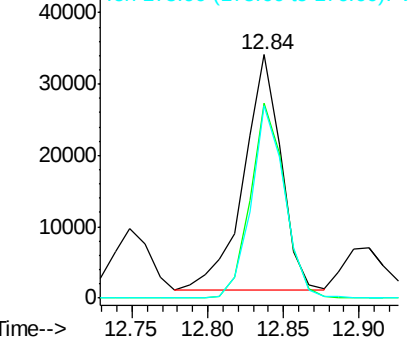
176 78.9 0.0 143.4

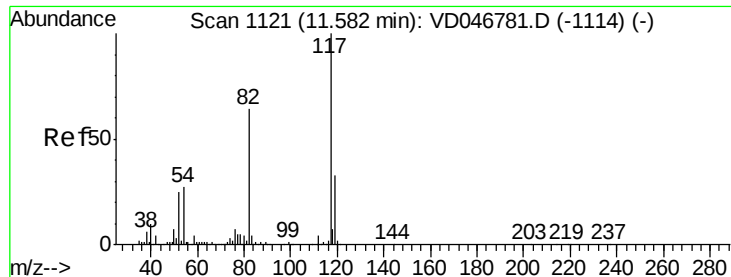


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V





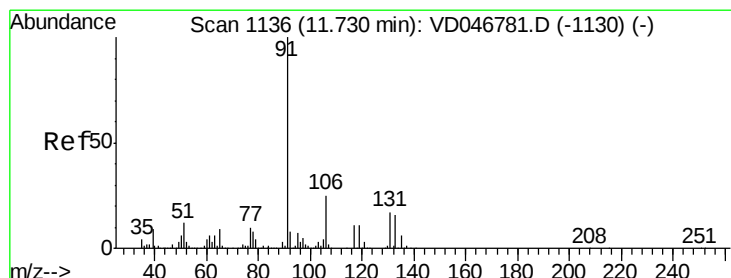
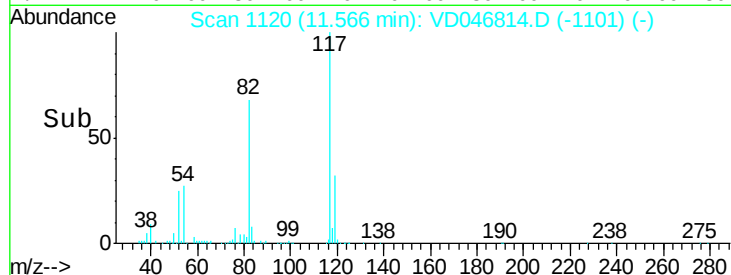
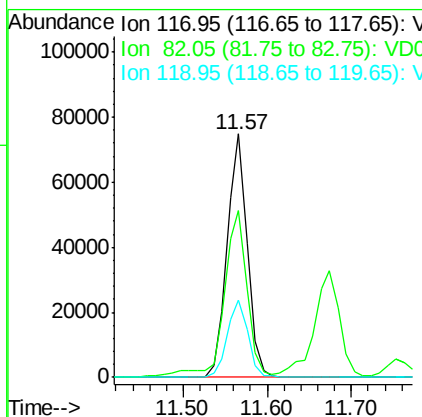
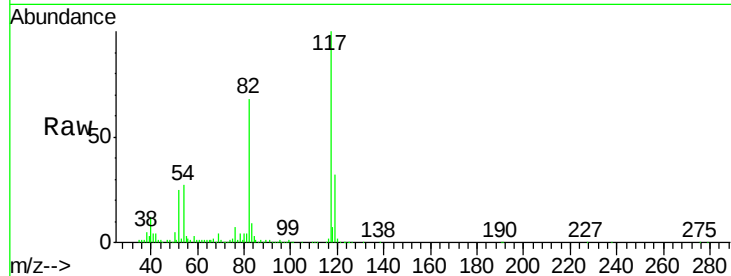
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.57 min Scan# 1120
Delta R.T. -0.02 min
Lab File: VD046814.D
Acq: 21 Sep 2015 18:26

Instrument :
MSVOA_D
ClientSampleId :
MGP205-10-12

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.4	50.6	75.8
119	32.0	25.8	38.8

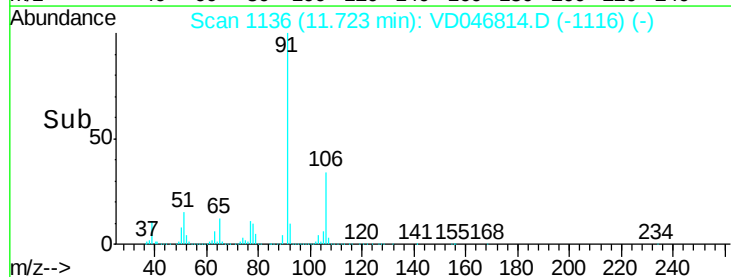
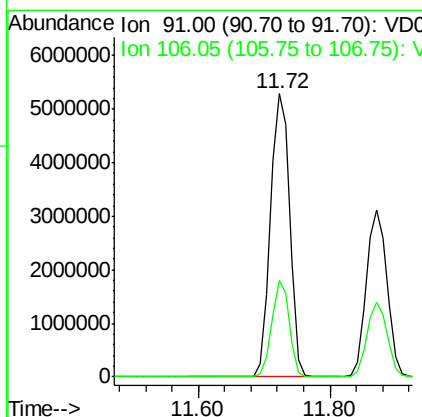
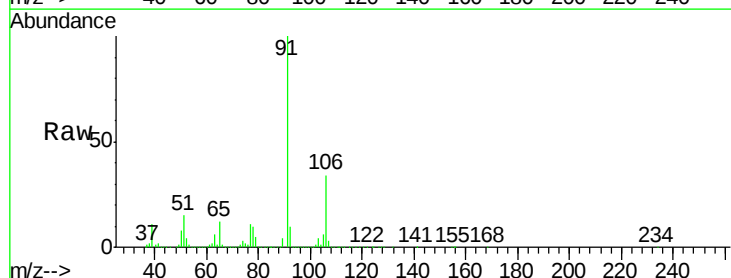
Manual Integrations
APPROVED

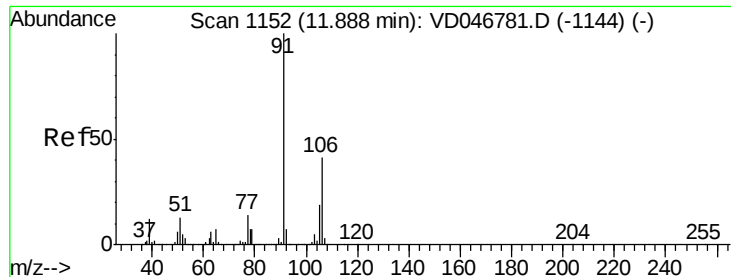
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#67
Ethyl Benzene
Concen: 2069.02 ug/l
RT: 11.72 min Scan# 1136
Delta R.T. -0.01 min
Lab File: VD046814.D
Acq: 21 Sep 2015 18:26

Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.9	20.2	30.2





#68

m/p-Xylenes

Concen: 1808.88 ug/l

RT: 11.87 min Scan# 1151

Delta R.T. -0.02 min

Lab File: VD046814.D

Acq: 21 Sep 2015 18:26

Instrument :

MSVOA_D

ClientSampleId :

MGP205-10-12

Tot Ion:106 Resp: 2992608

Ion Ratio Lower Upper

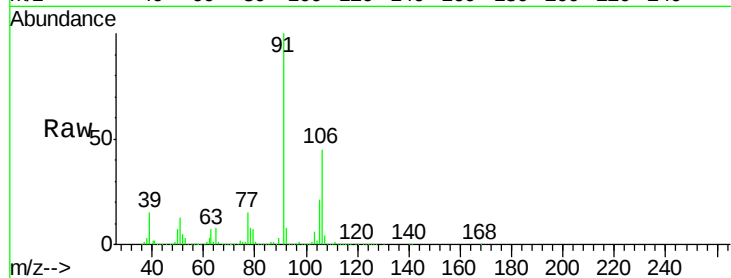
106 100

91 222.1 187.9 281.9

Manual Integrations
APPROVED

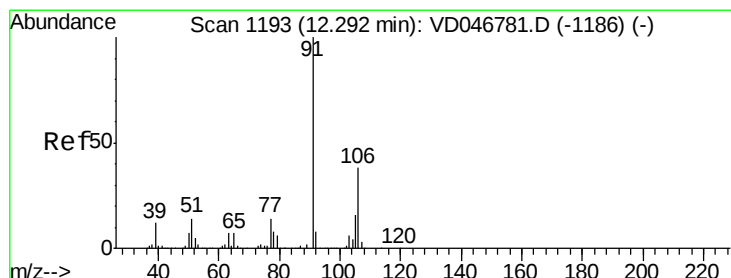
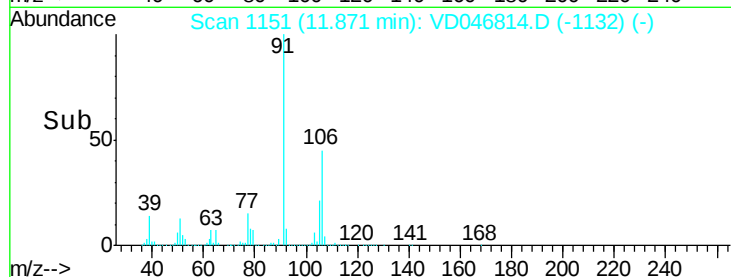
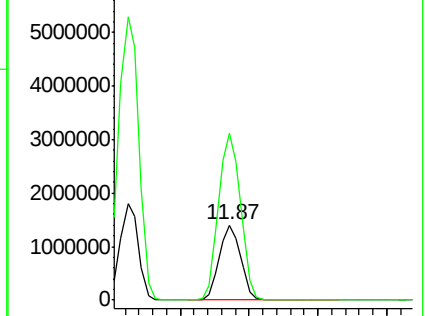
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Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VDC



#69

o-Xylene

Concen: 1830.70 ug/l

RT: 12.29 min Scan# 1193

Delta R.T. -0.01 min

Lab File: VD046814.D

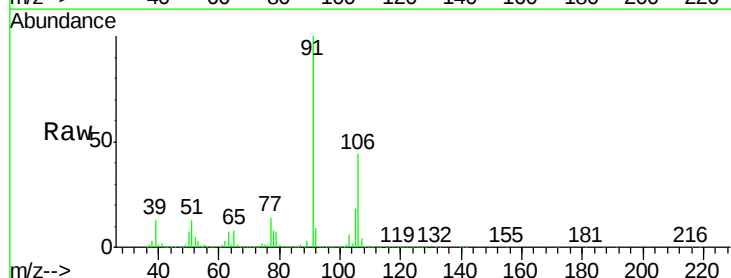
Acq: 21 Sep 2015 18:26

Tgt Ion:106 Resp: 2726412

Ion Ratio Lower Upper

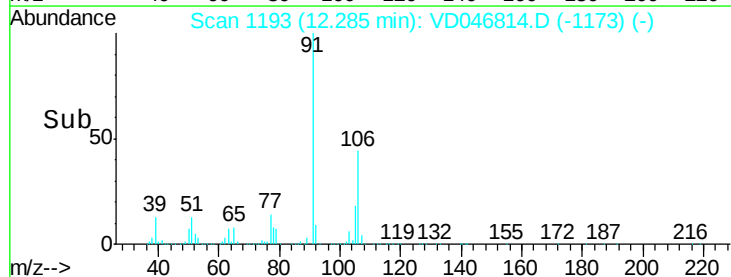
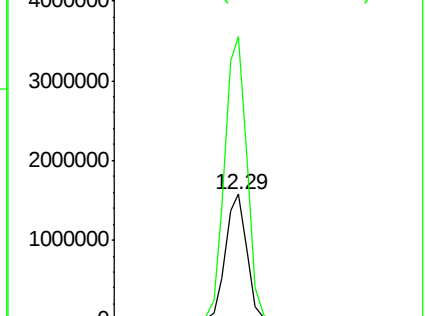
106 100

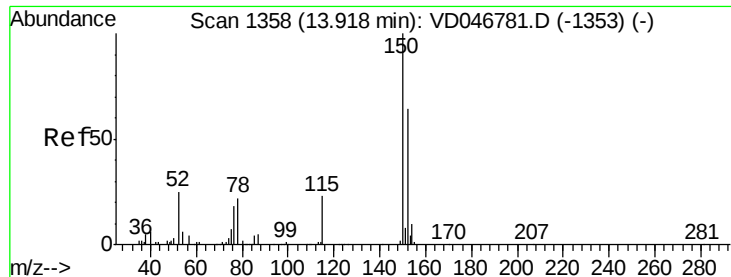
91 225.9 124.8 374.5



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VDC





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.91 min Scan# 1358

Delta R.T. -0.01 min

Lab File: VD046814.D

Acq: 21 Sep 2015 18:26

Instrument :

MSVOA_D

ClientSampleId :

MGP205-10-12

Tot Ion:152 Resp: 41038

Ion Ratio Lower Upper

152 100

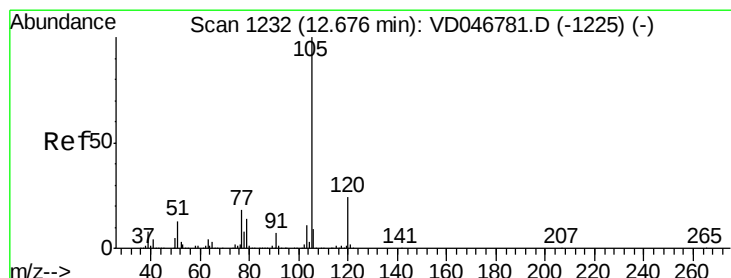
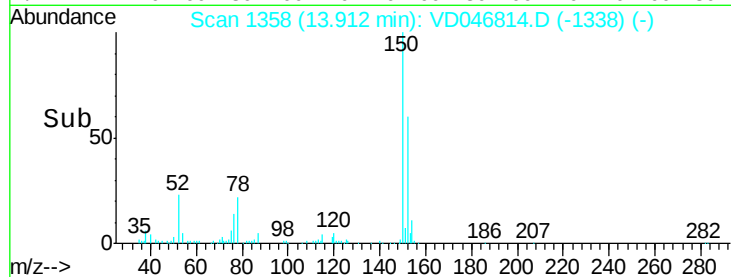
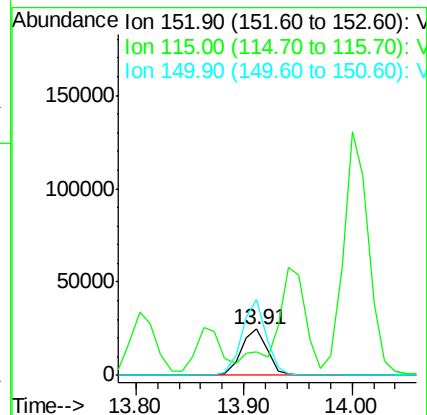
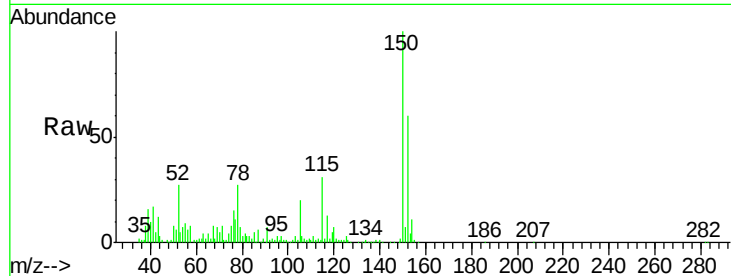
115 50.6 26.2 78.6

150 165.5 0.0 311.8

Manual Integrations
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#73

Isopropylbenzene

Concen: 527.40 ug/l

RT: 12.66 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VD046814.D

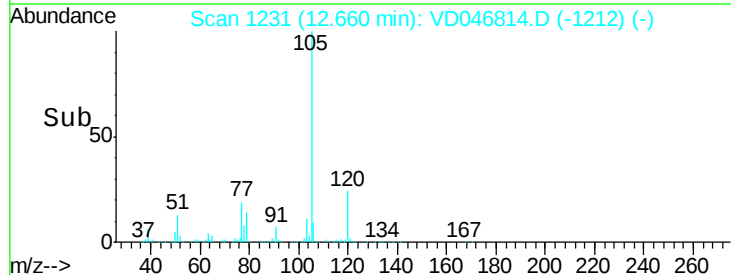
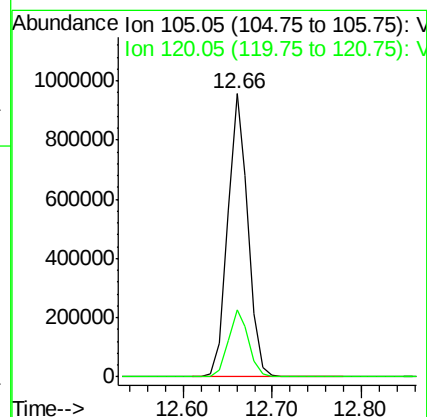
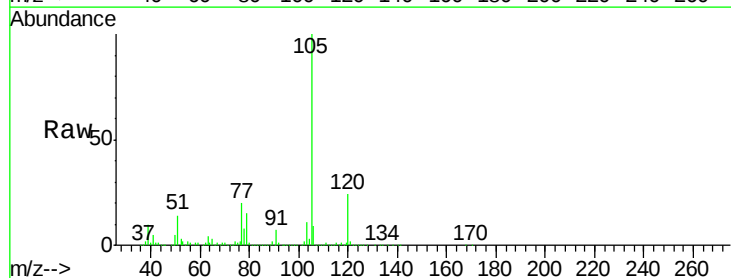
Acq: 21 Sep 2015 18:26

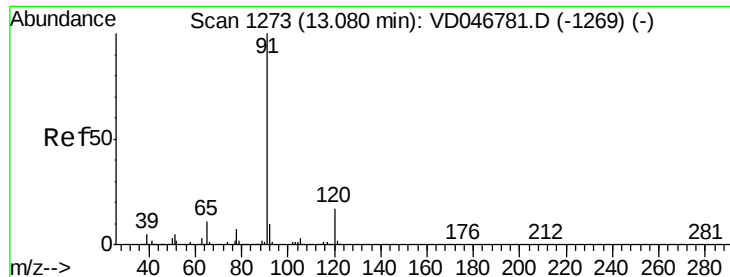
Tgt Ion:105 Resp: 1525702

Ion Ratio Lower Upper

105 100

120 23.5 12.4 37.4





#78

n-propylbenzene

Concen: 189.59 ug/l

RT: 13.06 min Scan# 1272

Delta R.T. -0.02 min

Lab File: VD046814.D

Acq: 21 Sep 2015 18:26

Instrument :

MSVOA_D

ClientSampleId :

MGP205-10-12

Tot Ion: 91 Resp: 774513

Ion Ratio Lower Upper

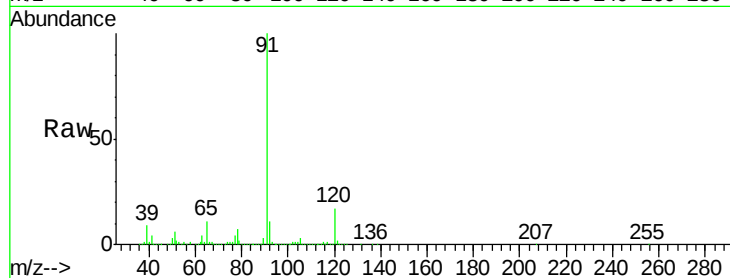
91 100

120 16.9 9.3 27.7

Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VD046814.D (-1269) (-)

Ion 120.05 (119.75 to 120.75): VD046814.D (-1269) (-)

13.06

400000

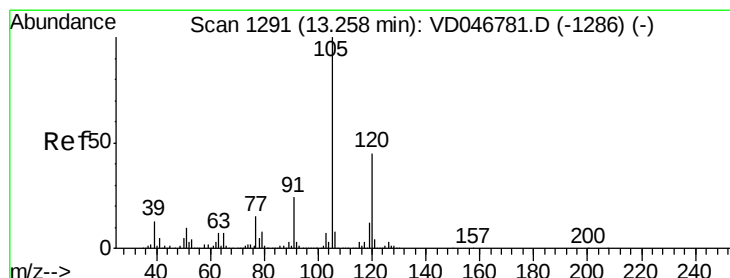
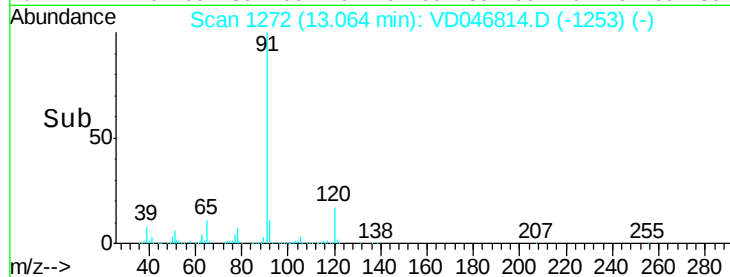
300000

200000

100000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 768.68 ug/l

RT: 13.24 min Scan# 1290

Delta R.T. -0.02 min

Lab File: VD046814.D

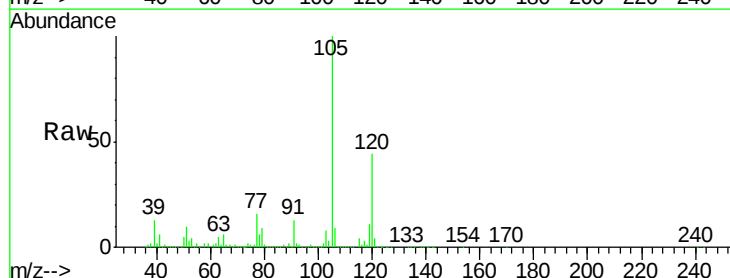
Acq: 21 Sep 2015 18:26

Tgt Ion:105 Resp: 1772009

Ion Ratio Lower Upper

105 100

120 44.0 22.3 66.8



Abundance Ion 105.05 (104.75 to 105.75): VD046814.D (-1286) (-)

Ion 120.05 (119.75 to 120.75): VD046814.D (-1286) (-)

13.24

2000000

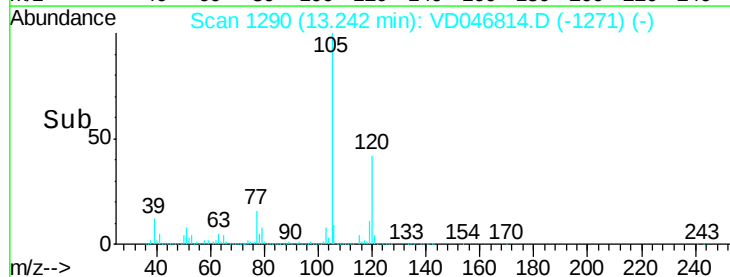
1500000

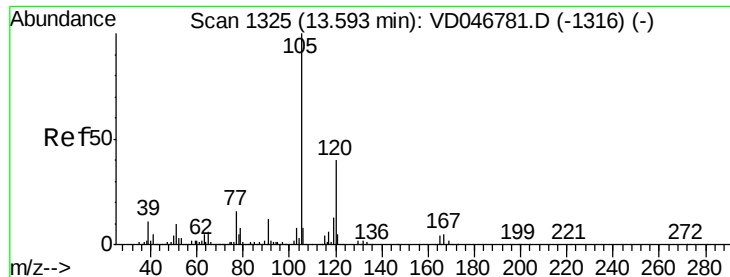
1000000

500000

0

Time-->





#84

1,2,4-Trimethylbenzene

Concen: 2294.99 ug/l

RT: 13.59 min Scan# 1325

Delta R.T. -0.01 min

Lab File: VD046814.D

Acq: 21 Sep 2015 18:26

Instrument :

MSVOA_D

ClientSampleId :

MGP205-10-12

Tot Ion:105 Resp: 5325752

Ion Ratio Lower Upper

105 100

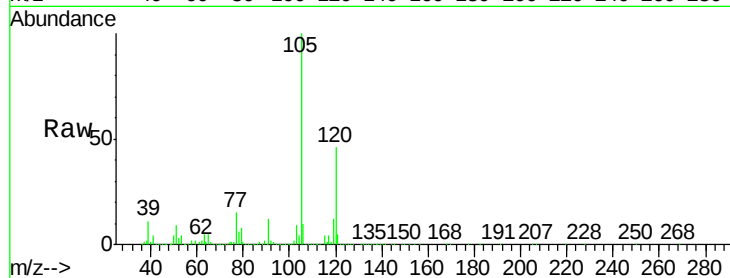
120 45.9 21.1 63.1

Manual Integrations

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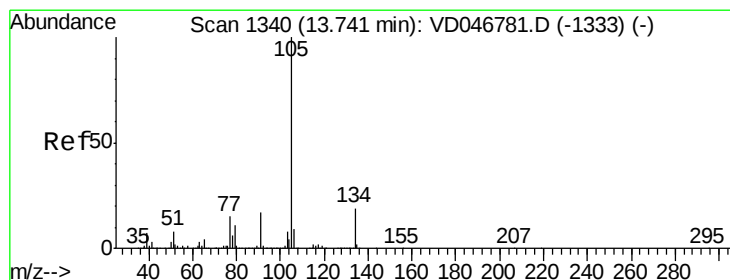
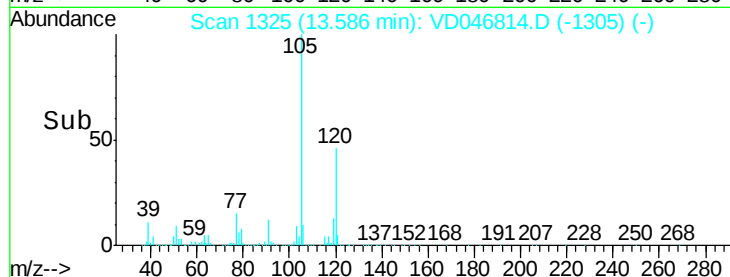
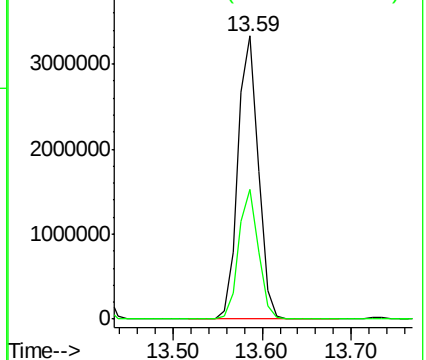
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#85

sec-Butylbenzene

Concen: 14.91 ug/l m

RT: 13.72 min Scan# 1339

Delta R.T. -0.02 min

Lab File: VD046814.D

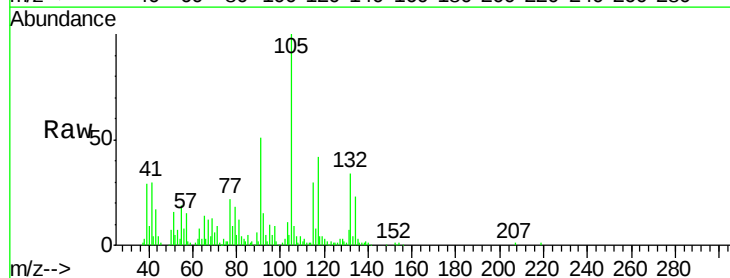
Acq: 21 Sep 2015 18:26

Tgt Ion:105 Resp: 45555

Ion Ratio Lower Upper

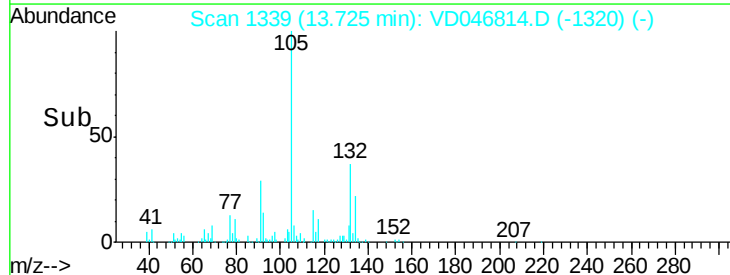
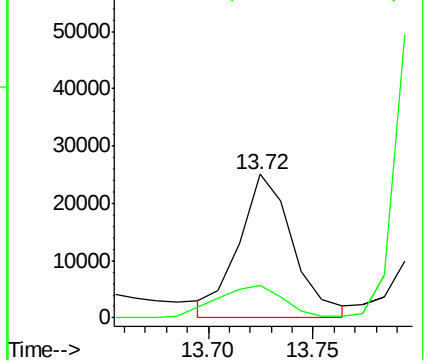
105 100

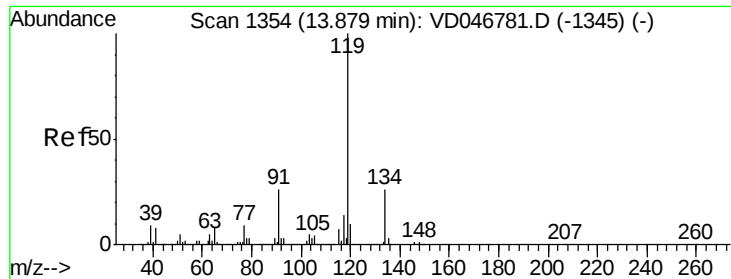
134 22.7 10.1 30.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V





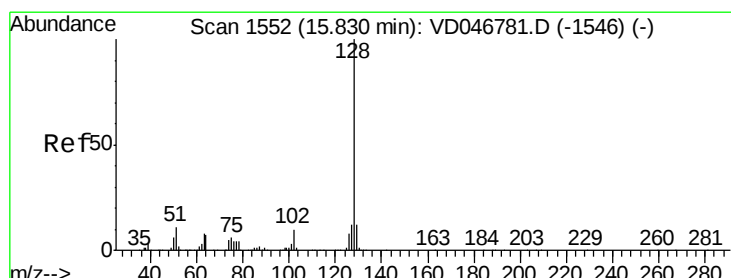
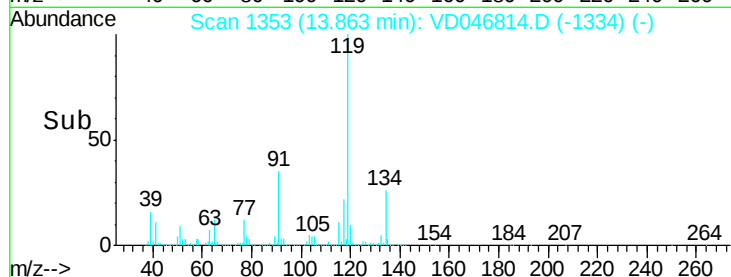
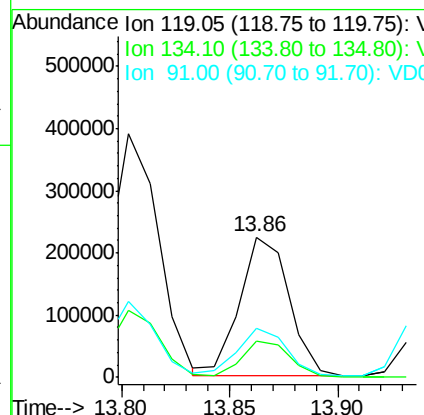
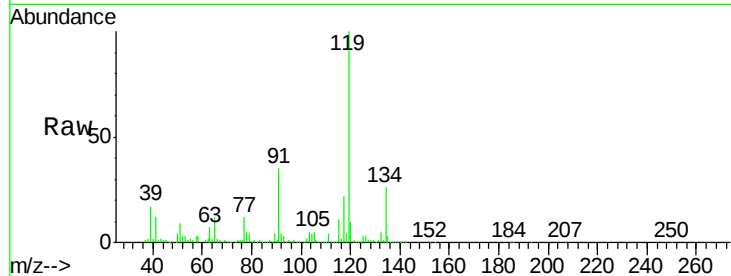
#86
p-Isopropyltoluene
Concen: 149.49 ug/l
RT: 13.86 min Scan# 1353
Delta R.T. -0.02 min
Lab File: VD046814.D
Acq: 21 Sep 2015 18:26

Instrument :
MSVOA_D
ClientSampleId :
MGP205-10-12

Tot Ion	Ratio	Resp	Lower	Upper
119	100	358982		
134	25.7	13.0	38.9	
91	35.4	13.8	41.3	

Manual Integrations
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#95
Naphthalene
Concen: 27216.25 ug/l
RT: 15.83 min Scan# 1553
Delta R.T. 0.00 min
Lab File: VD046814.D
Acq: 21 Sep 2015 18:26

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	24830305		
127	27.0	9.8	14.6#	
129	22.8	8.6	12.8#	

