

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061518\
 Data File : VD058158.D
 Acq On : 15 Jun 2018 18:03
 Operator : VA/AP
 Sample : J3523-07
 Misc : 4.96g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 AREA2(D)

Quant Time: Jun 15 23:53:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 08:57:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	616955	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	785095	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	620897	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	249291	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.01	65	396158	64.23	ug/l	0.00
Spiked Amount			Recovery	=	128.46%	
35) Dibromofluoromethane	5.55	113	396282	65.24	ug/l	0.00
Spiked Amount			Recovery	=	130.48%	
50) Toluene-d8	8.71	98	890693	61.68	ug/l	0.00
Spiked Amount			Recovery	=	123.36%	
62) 4-Bromofluorobenzene	11.93	95	331068	52.55	ug/l	0.00
Spiked Amount			Recovery	=	105.10%	

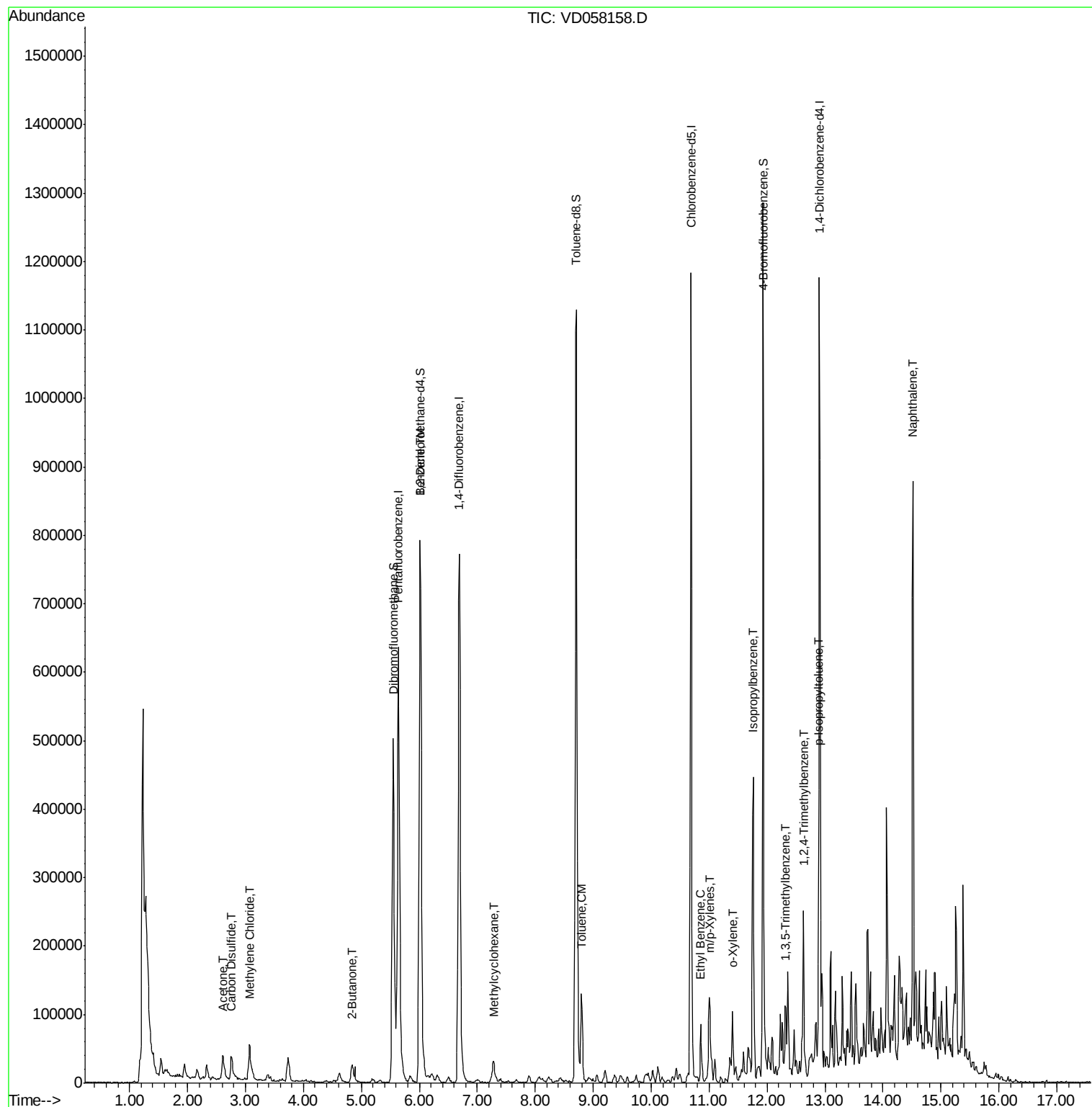
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	2.61	43	79982	90.004	ug/l	99
17) Carbon Disulfide	2.75	76	47353	5.283	ug/l	99
20) Methylene Chloride	3.07	84	22187	2.921	ug/l #	88
25) 2-Butanone	4.84	43	14851	7.354	ug/l #	88
39) Methylcyclohexane	7.28	83	14109	1.645	ug/l	89
40) Benzene	6.01	78	478139	23.663	ug/l	99
52) Toluene	8.80	92	63238	5.453	ug/l	98
67) Ethyl Benzene	10.86	91	58260	2.566	ug/l	94
68) m/p-Xylenes	11.00	106	34548	4.667	ug/l	93
69) o-Xylene	11.41	106	20927	2.848	ug/l	97
73) Isopropylbenzene	11.77	105	26554	1.608	ug/l	90
80) 1,3,5-Trimethylbenzene	12.32	105	40163	3.119	ug/l	99
84) 1,2,4-Trimethylbenzene	12.63	105	105082	7.590	ug/l	95
86) p-Isopropyltoluene	12.88	119	57296	4.051	ug/l	99
95) Naphthalene	14.52	128	500676	62.209	ug/l	98

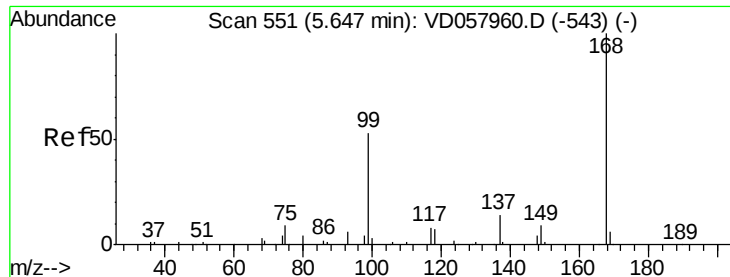
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.01 min

Lab File: VD058158.D

Acq: 15 Jun 2018 18:03

Instrument :

MSVOA_D

ClientSampleId :

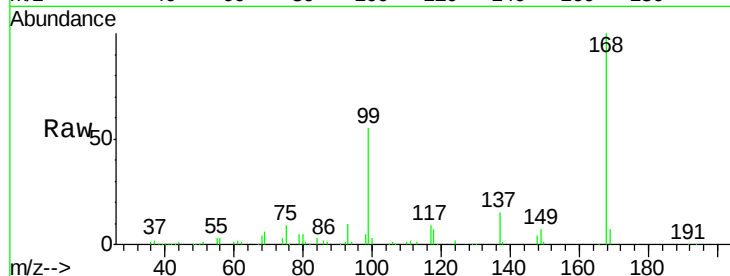
AREA2(D)

Tot Ion:168 Resp: 616955

Ion Ratio Lower Upper

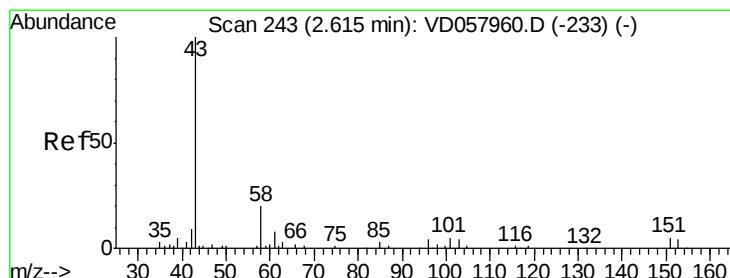
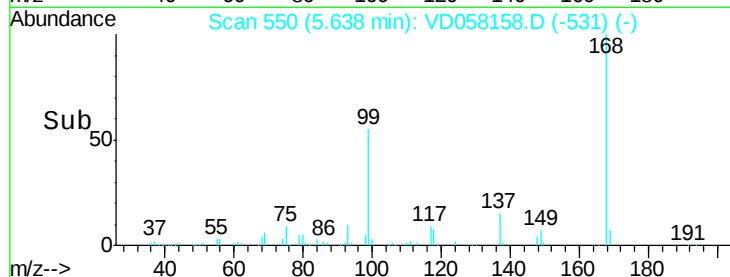
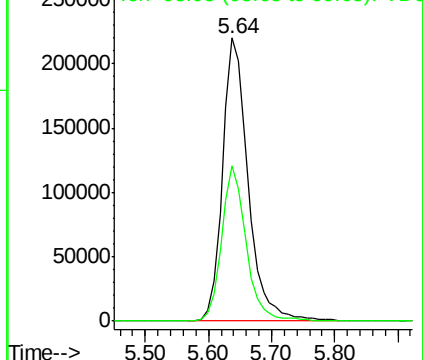
168 100

99 54.9 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 90.004 ug/l

RT: 2.61 min Scan# 242

Delta R.T. -0.01 min

Lab File: VD058158.D

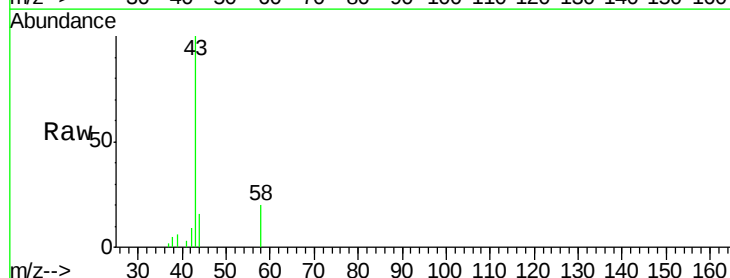
Acq: 15 Jun 2018 18:03

Tgt Ion: 43 Resp: 79982

Ion Ratio Lower Upper

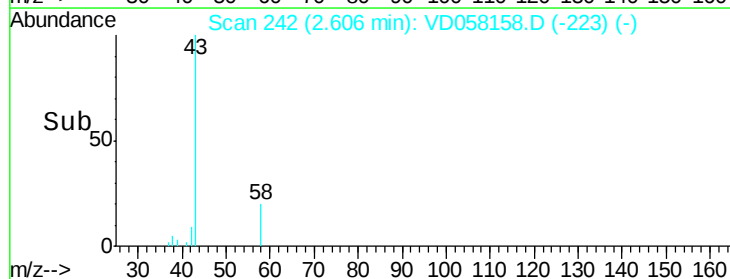
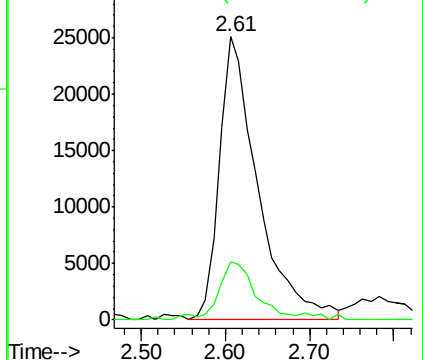
43 100

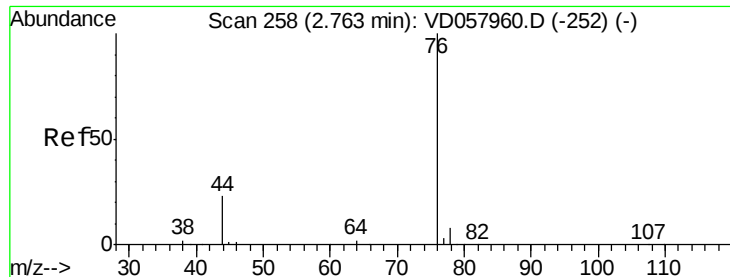
58 20.4 15.8 23.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 5.283 ug/l

RT: 2.75 min Scan# 257

Delta R.T. -0.01 min

Lab File: VD058158.D

Acq: 15 Jun 2018 18:03

Instrument :

MSVOA_D

ClientSampleId :

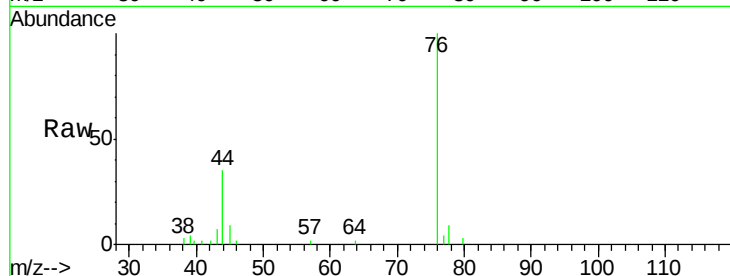
AREA2(D)

Tot Ion: 76 Resp: 47353

Ion Ratio Lower Upper

76 100

78 8.8 6.7 10.1



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

2.75

25000

20000

15000

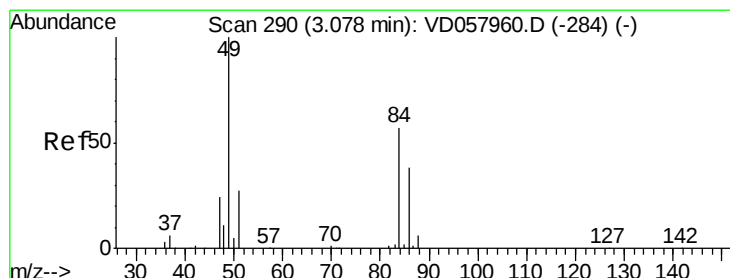
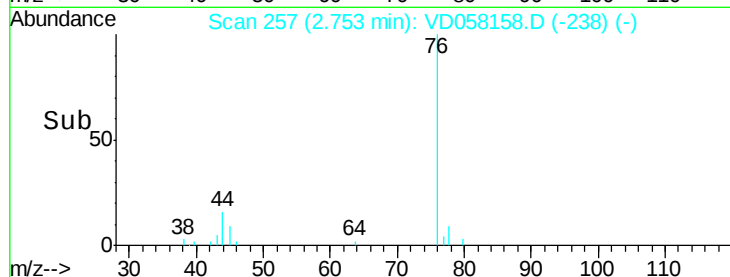
10000

5000

0

Time-->

2.70 2.80 2.90



#20

Methylene Chloride

Concen: 2.921 ug/l

RT: 3.07 min Scan# 289

Delta R.T. -0.01 min

Lab File: VD058158.D

Acq: 15 Jun 2018 18:03

Tgt Ion: 84 Resp: 22187

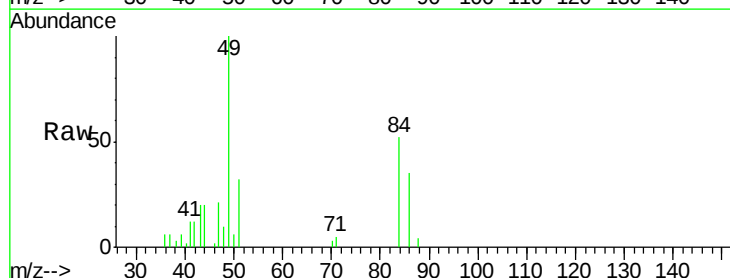
Ion Ratio Lower Upper

84 100

49 194.0 141.4 212.0

51 62.5 38.3 57.5#

86 67.6 52.9 79.3



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

25000

20000

15000

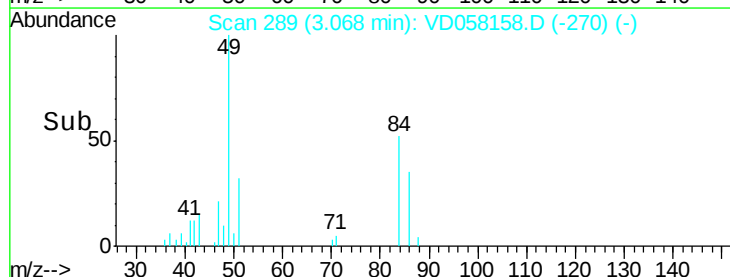
10000

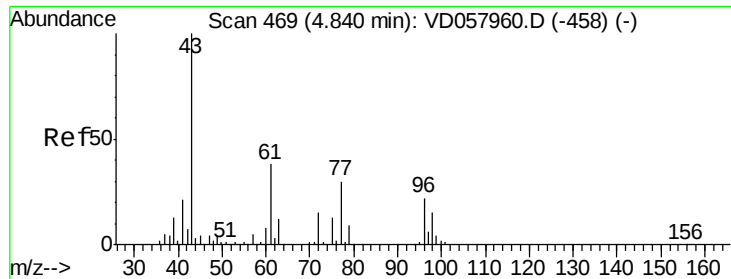
5000

0

Time-->

3.00 3.10 3.20





#25

2-Butanone

Concen: 7.354 ug/l

RT: 4.84 min Scan# 469

Delta R.T. 0.00 min

Lab File: VD058158.D

Acq: 15 Jun 2018 18:03

Instrument :

MSVOA_D

ClientSampleId :

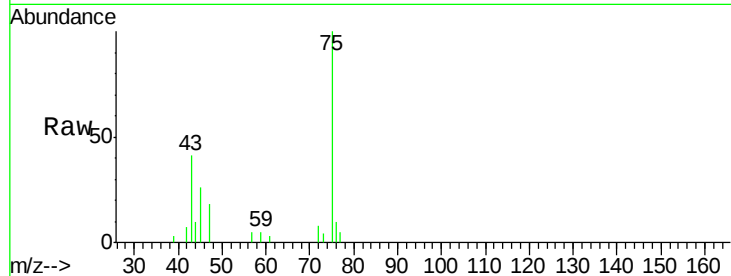
AREA2(D)

Tot Ion: 43 Resp: 14851

Ion Ratio Lower Upper

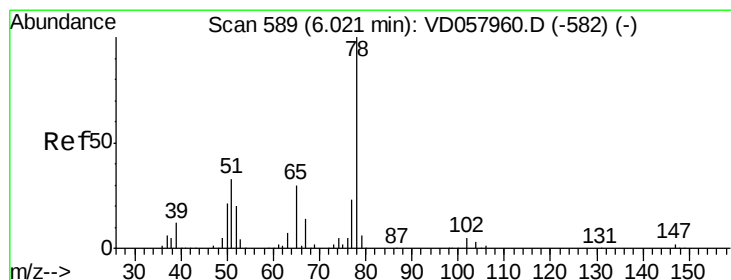
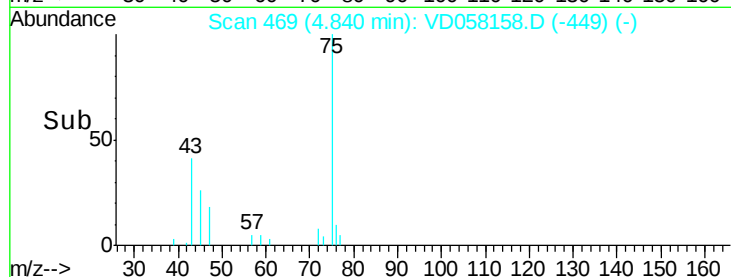
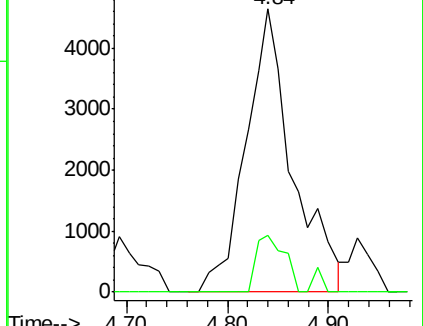
43 100

72 20.0 12.0 18.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.01 min Scan# 588

Delta R.T. -0.01 min

Lab File: VD058158.D

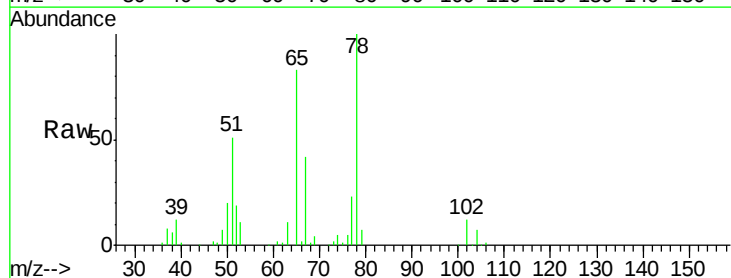
Acq: 15 Jun 2018 18:03

Tgt Ion: 65 Resp: 396158

Ion Ratio Lower Upper

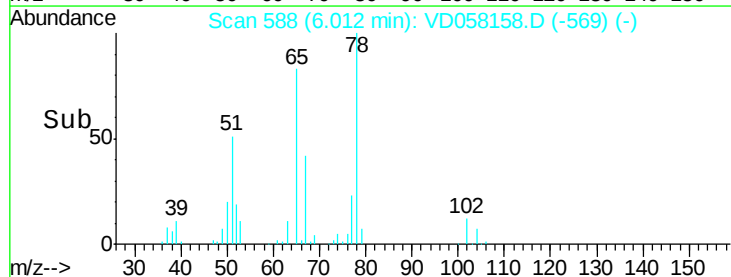
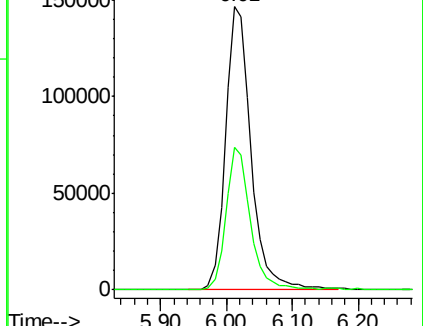
65 100

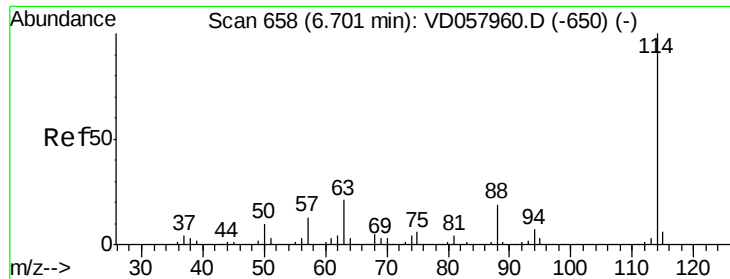
67 50.2 0.0 94.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

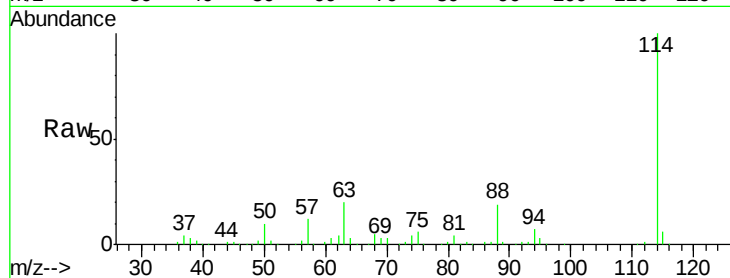




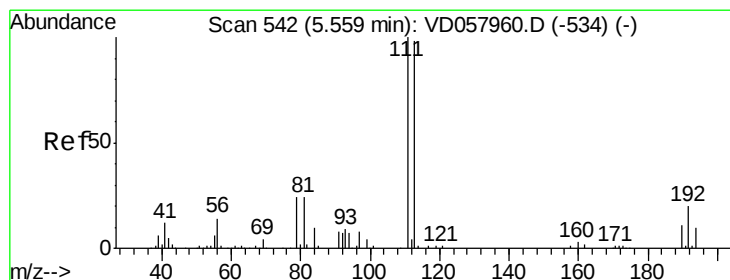
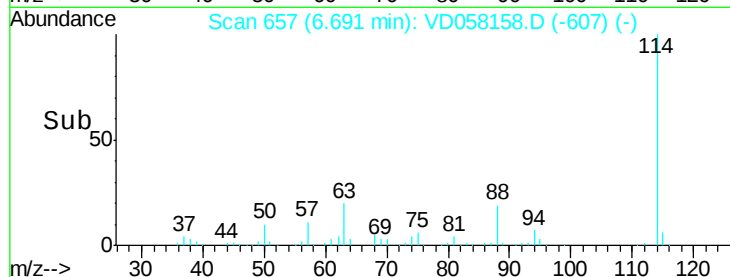
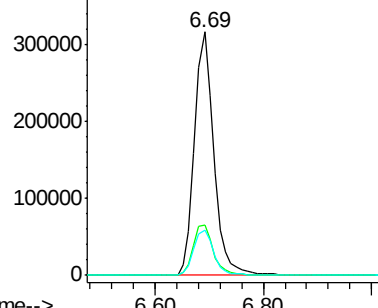
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.69 min Scan# 657
 Delta R.T. -0.01 min
 Lab File: VD058158.D
 Acq: 15 Jun 2018 18:03

Instrument :
 MSVOA_D
 ClientSampleId :
 AREA2(D)

Tot Ion:114 Resp: 785095
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 42.8
 88 18.8 0.0 37.8

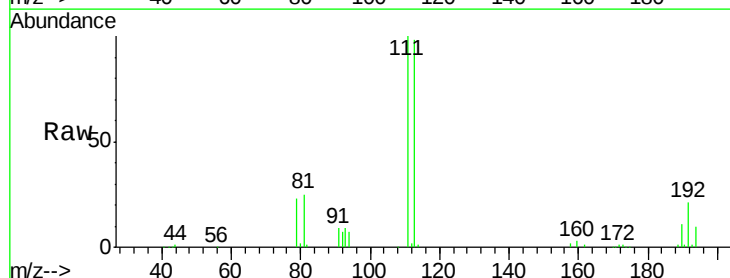


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

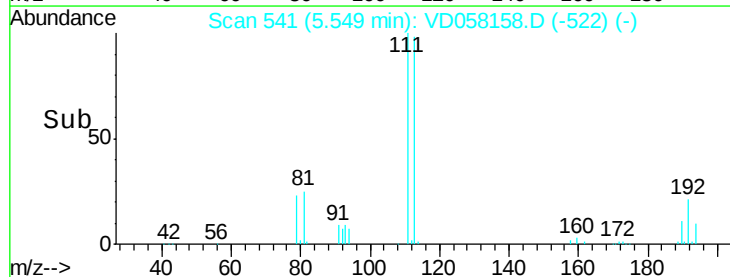
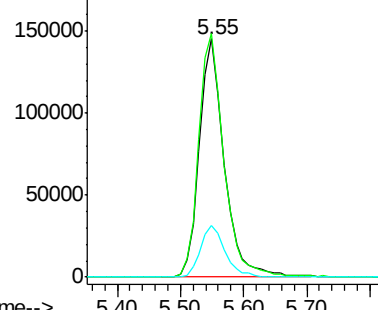


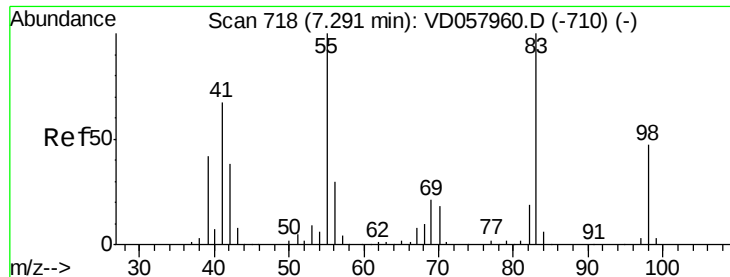
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.55 min Scan# 541
 Delta R.T. -0.01 min
 Lab File: VD058158.D
 Acq: 15 Jun 2018 18:03

Tgt Ion:113 Resp: 396282
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.5 122.3
 192 21.6 16.4 24.6



Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

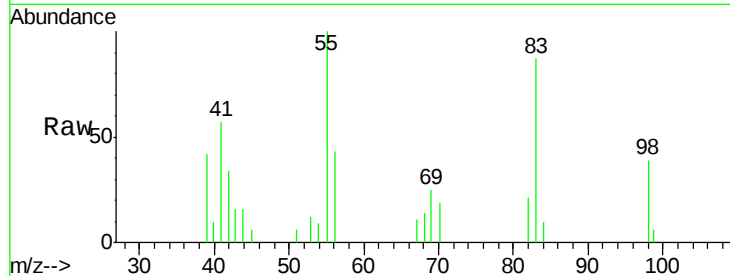




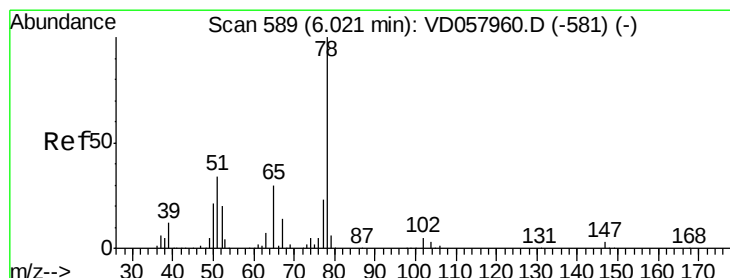
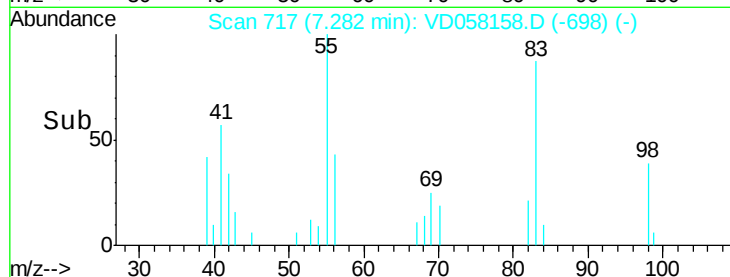
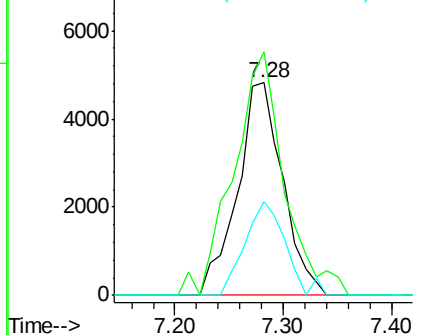
#39
Methvlcvclohexane
Concen: 1.645 ug/l
RT: 7.28 min Scan# 717
Delta R.T. -0.01 min
Lab File: VD058158.D
Acq: 15 Jun 2018 18:03

Instrument :
MSVOA_D
ClientSampleId :
AREA2(D)

Tot Ion: 83 Resp: 14109
Ion Ratio Lower Upper
83 100
55 114.5 80.3 120.5
98 44.4 38.0 57.0

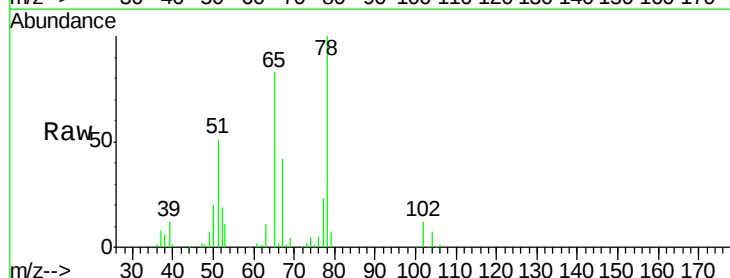


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

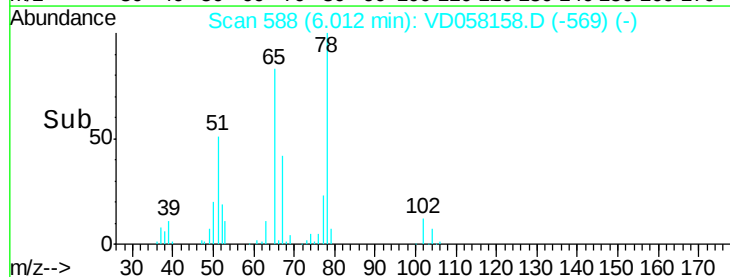
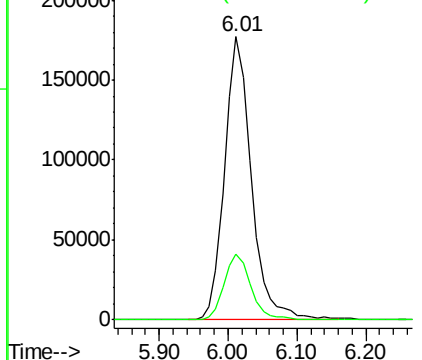


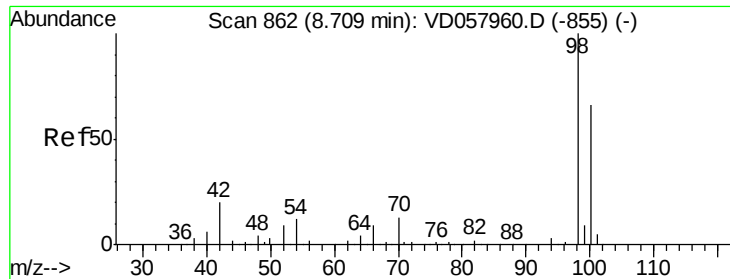
#40
Benzene
Concen: 23.663 ug/l
RT: 6.01 min Scan# 588
Delta R.T. -0.01 min
Lab File: VD058158.D
Acq: 15 Jun 2018 18:03

Tgt Ion: 78 Resp: 478139
Ion Ratio Lower Upper
78 100
77 23.3 18.1 27.1



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC

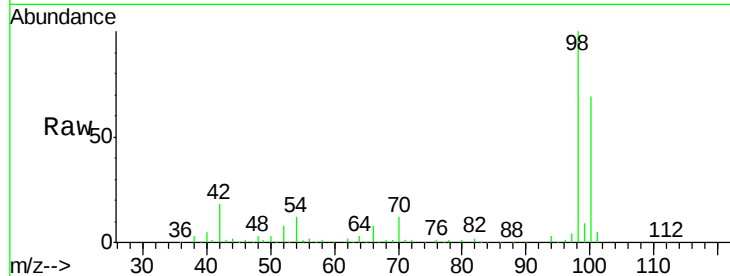




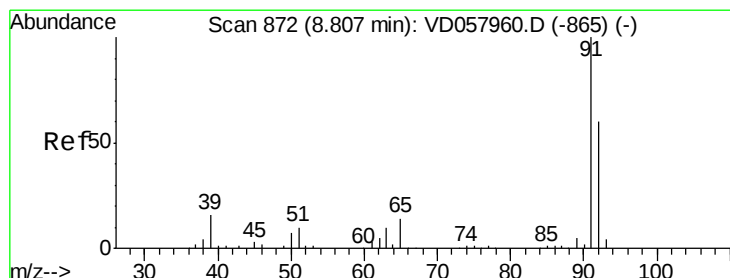
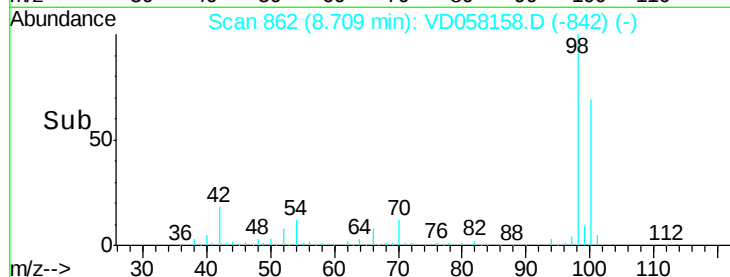
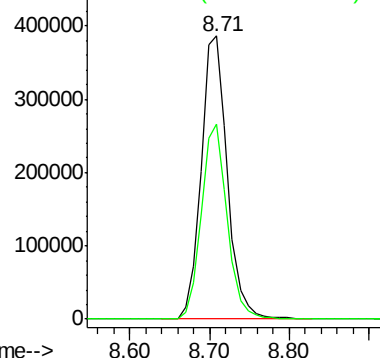
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.71 min Scan# 862
Delta R.T. 0.00 min
Lab File: VD058158.D
Acq: 15 Jun 2018 18:03

Instrument :
MSVOA_D
ClientSampleId :
AREA2(D)

Tot Ion: 98 Resp: 890693
Ion Ratio Lower Upper
98 100
100 69.1 53.4 80.0

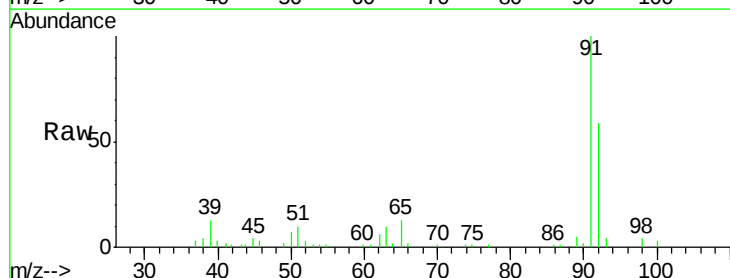


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

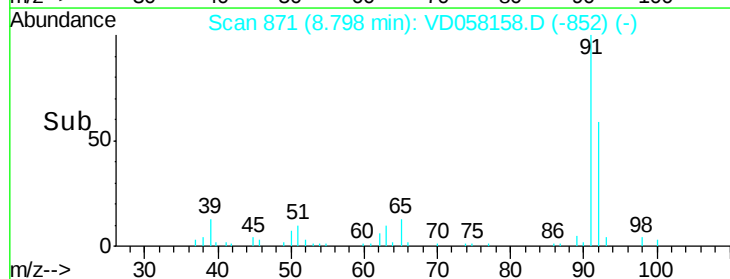
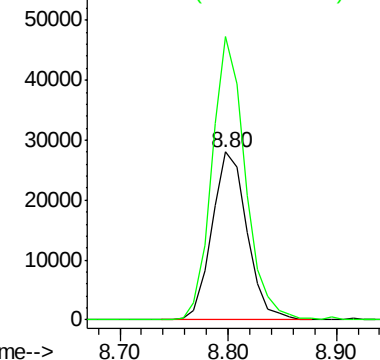


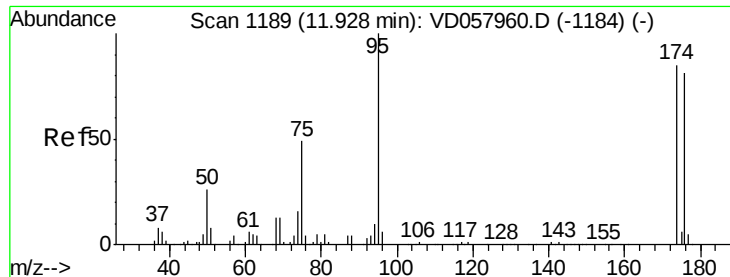
#52
Toluene
Concen: 5.453 ug/l
RT: 8.80 min Scan# 871
Delta R.T. -0.01 min
Lab File: VD058158.D
Acq: 15 Jun 2018 18:03

Tgt Ion: 92 Resp: 63238
Ion Ratio Lower Upper
92 100
91 168.6 133.0 199.6



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VD058158.D

Acq: 15 Jun 2018 18:03

Instrument :

MSVOA_D

ClientSampleId :

AREA2(D)

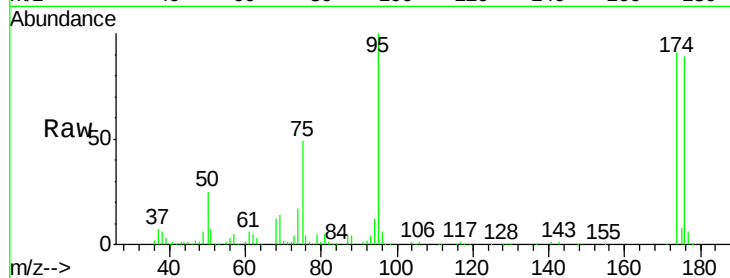
Tot Ion: 95 Resp: 331068

Ion Ratio Lower Upper

95 100

174 90.9 0.0 169.4

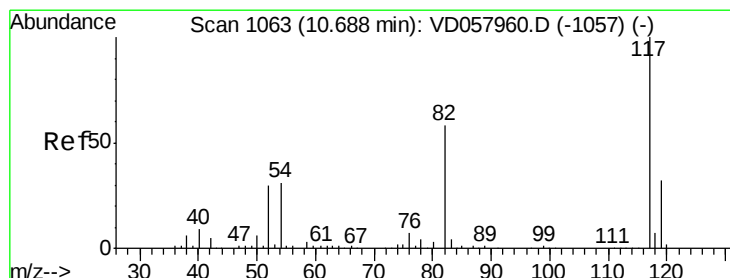
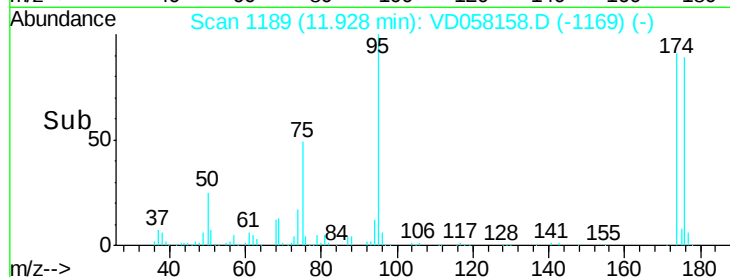
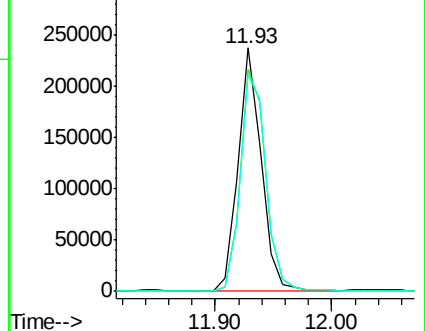
176 88.9 0.0 162.6



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.69 min Scan# 1063

Delta R.T. 0.00 min

Lab File: VD058158.D

Acq: 15 Jun 2018 18:03

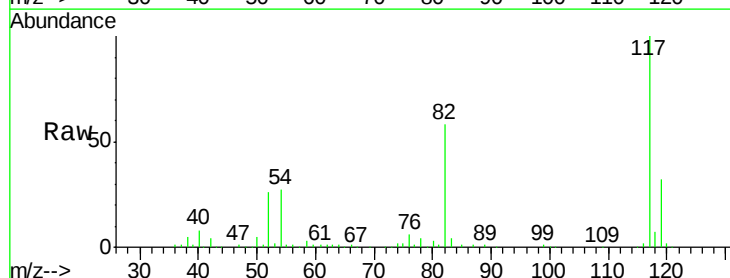
Tgt Ion: 117 Resp: 620897

Ion Ratio Lower Upper

117 100

82 58.3 46.8 70.2

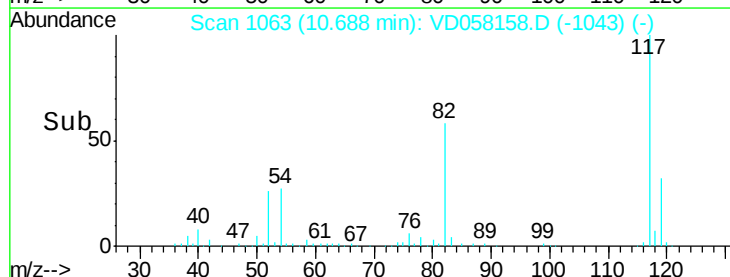
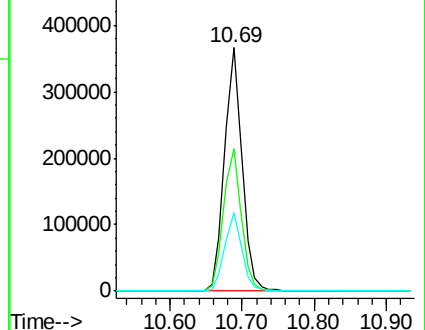
119 32.2 25.8 38.6

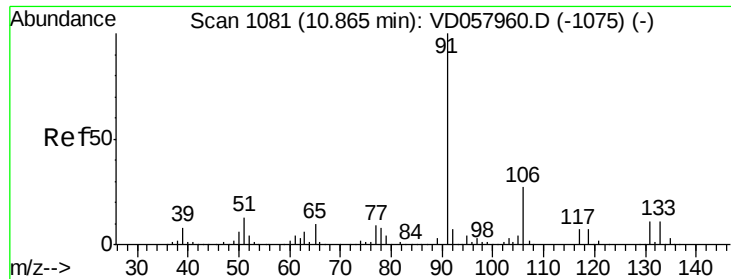


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

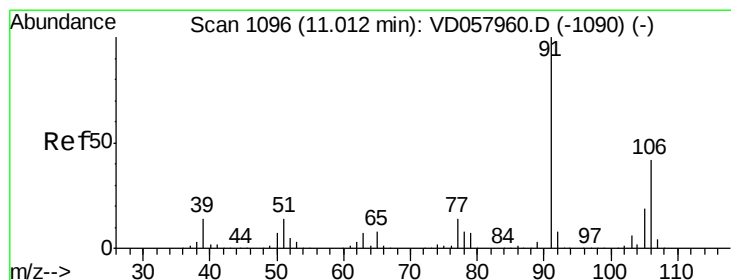
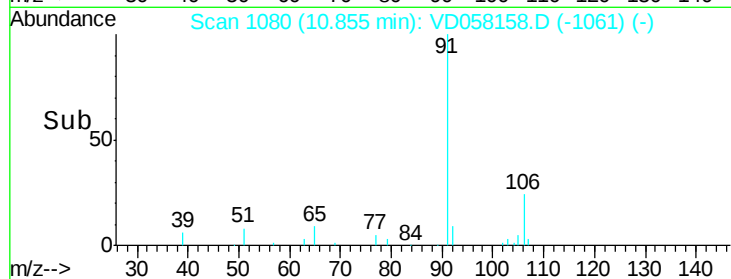
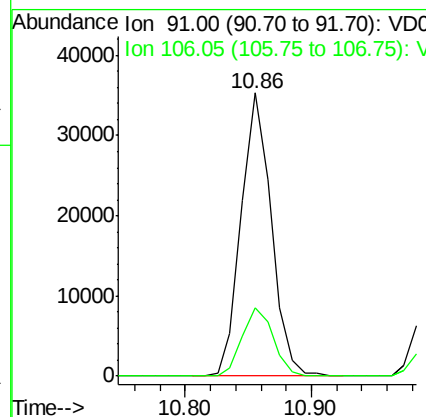
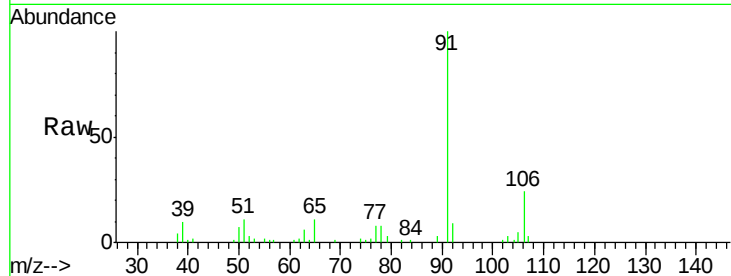




#67
Ethyl Benzene
Concen: 2.566 ug/l
RT: 10.86 min Scan# 1080
Delta R.T. -0.01 min
Lab File: VD058158.D
Acq: 15 Jun 2018 18:03

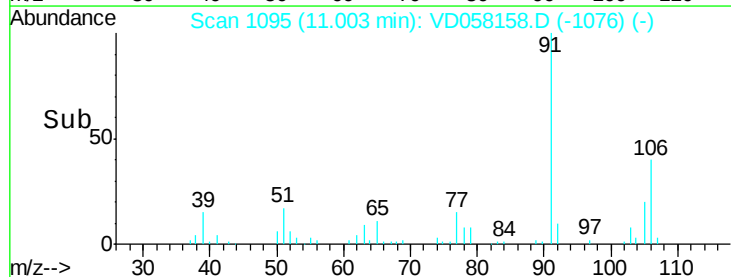
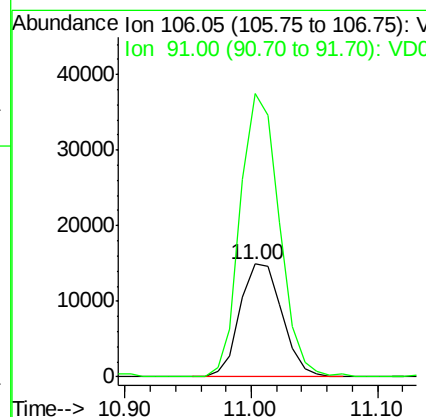
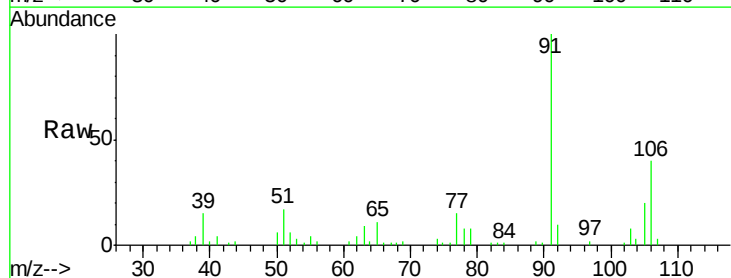
Instrument :
MSVOA_D
ClientSampleId :
AREA2(D)

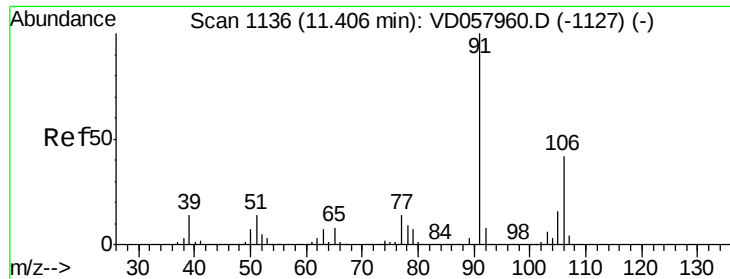
Tot Ion: 91 Resp: 58260
Ion Ratio Lower Upper
91 100
106 24.0 21.5 32.3



#68
m/p-Xylenes
Concen: 4.667 ug/l
RT: 11.00 min Scan# 1095
Delta R.T. -0.01 min
Lab File: VD058158.D
Acq: 15 Jun 2018 18:03

Tgt Ion: 106 Resp: 34548
Ion Ratio Lower Upper
106 100
91 250.3 190.4 285.6

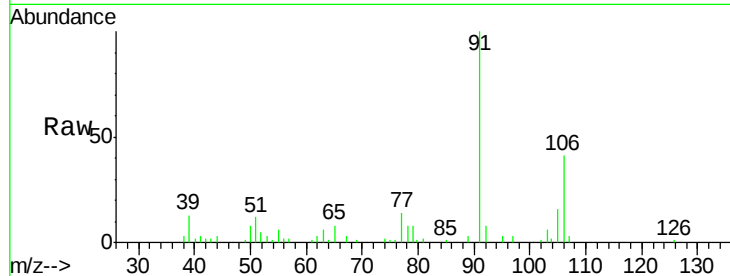




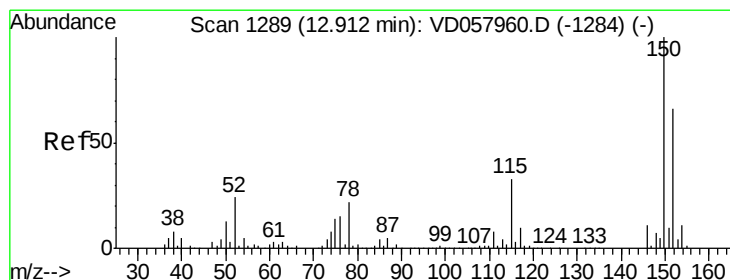
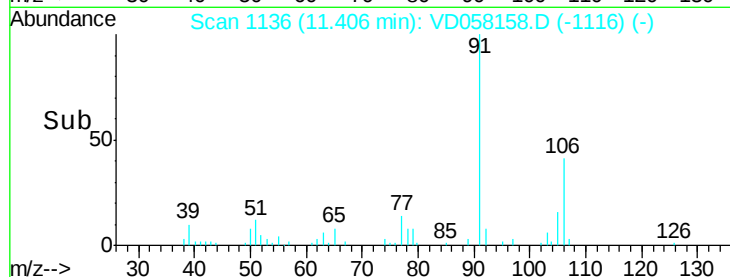
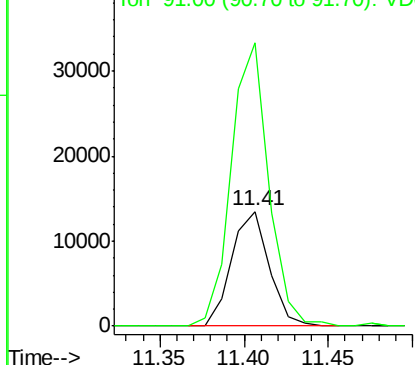
#69
o-Xylene
Concen: 2.848 ug/l
RT: 11.41 min Scan# 1136
Delta R.T. 0.00 min
Lab File: VD058158.D
Acq: 15 Jun 2018 18:03

Instrument :
MSVOA_D
ClientSampleId :
AREA2(D)

Tot Ion:106 Resp: 20927
Ion Ratio Lower Upper
106 100
91 246.6 120.6 361.7

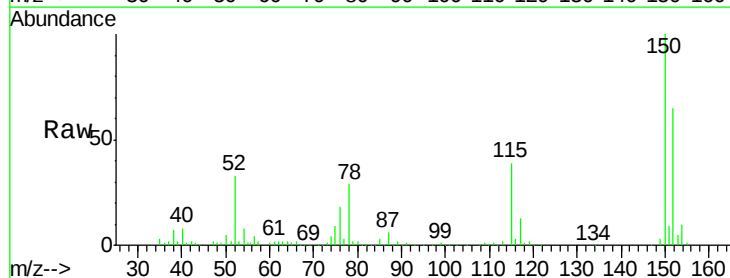


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

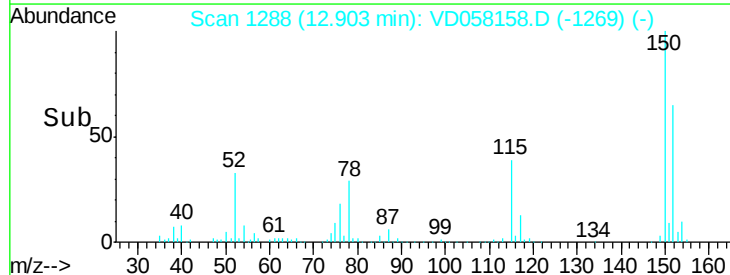
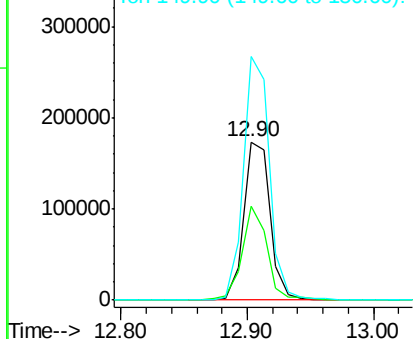


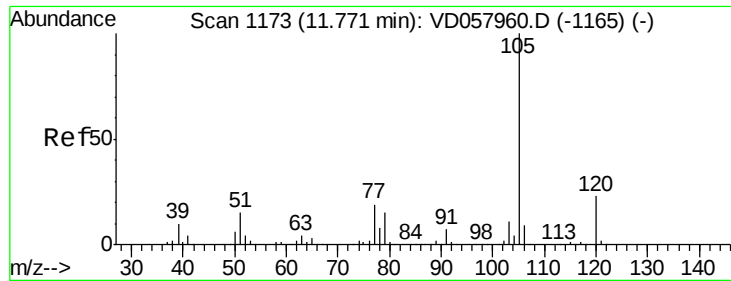
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.90 min Scan# 1288
Delta R.T. -0.01 min
Lab File: VD058158.D
Acq: 15 Jun 2018 18:03

Tgt Ion:152 Resp: 249291
Ion Ratio Lower Upper
152 100
115 59.6 25.6 76.6
150 154.1 0.0 306.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 1.608 ug/l

RT: 11.77 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VD058158.D

Acq: 15 Jun 2018 18:03

Instrument :

MSVOA_D

ClientSampleId :

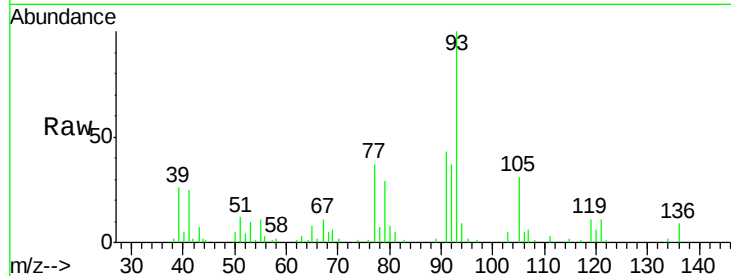
AREA2(D)

Tot Ion:105 Resp: 26554

Ion Ratio Lower Upper

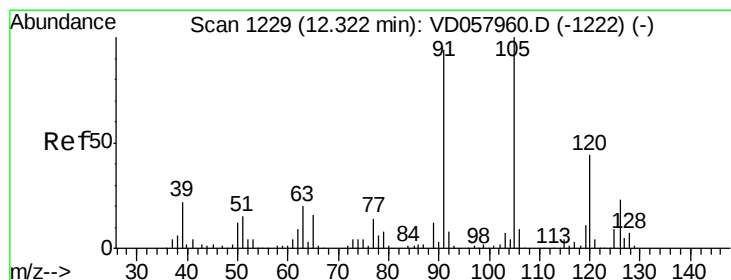
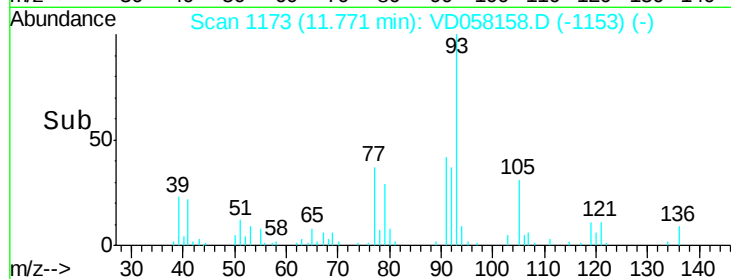
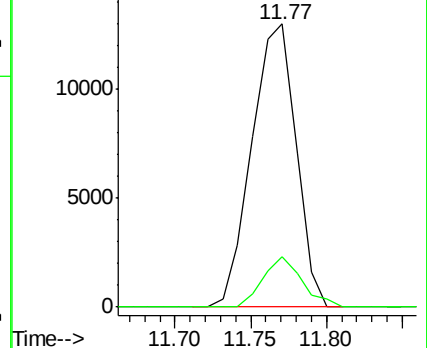
105 100

120 17.8 11.3 33.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#80

1,3,5-Trimethylbenzene

Concen: 3.119 ug/l

RT: 12.32 min Scan# 1229

Delta R.T. 0.00 min

Lab File: VD058158.D

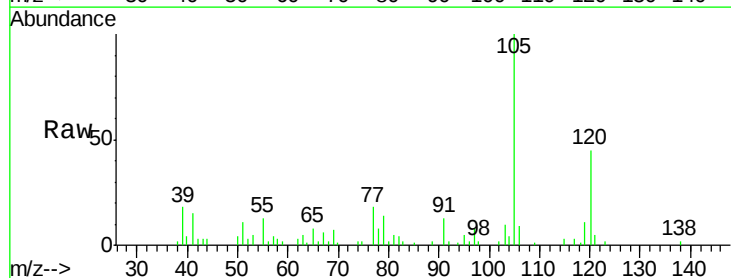
Acq: 15 Jun 2018 18:03

Tgt Ion:105 Resp: 40163

Ion Ratio Lower Upper

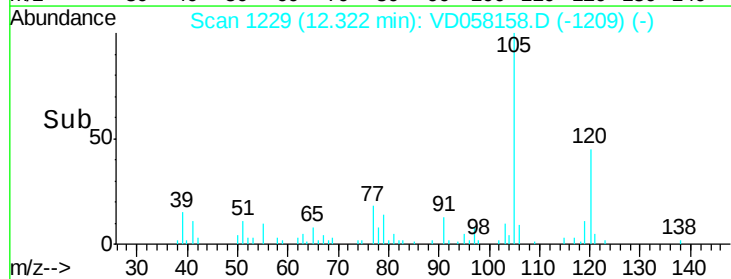
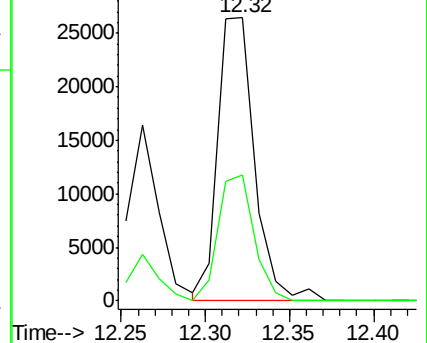
105 100

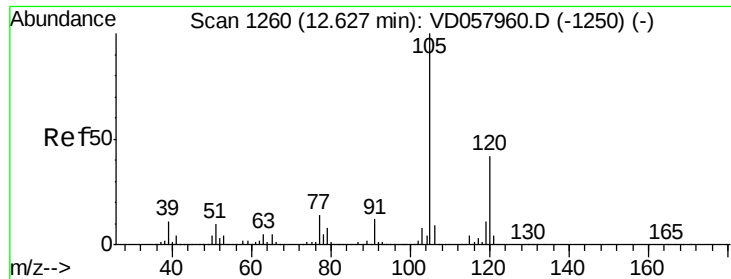
120 44.7 22.0 66.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#84

1,2,4-Trimethylbenzene

Concen: 7.590 ug/l

RT: 12.63 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VD058158.D

Acq: 15 Jun 2018 18:03

Instrument :

MSVOA_D

ClientSampleId :

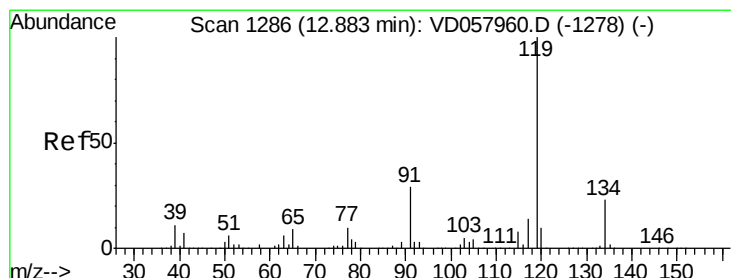
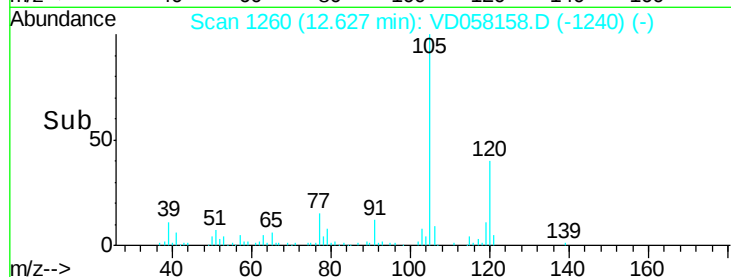
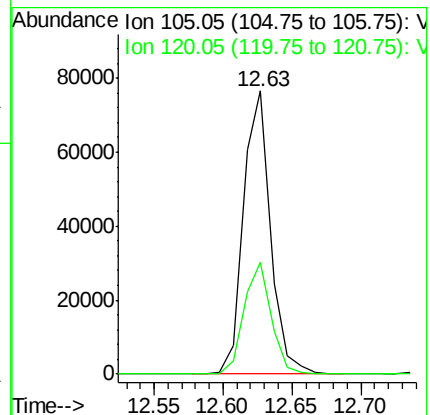
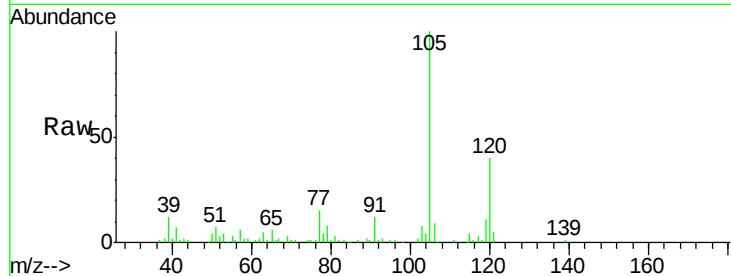
AREA2(D)

Tot Ion:105 Resp: 105082

Ion Ratio Lower Upper

105 100

120 39.5 21.2 63.6



#86

p-Isopropyltoluene

Concen: 4.051 ug/l

RT: 12.88 min Scan# 1286

Delta R.T. 0.00 min

Lab File: VD058158.D

Acq: 15 Jun 2018 18:03

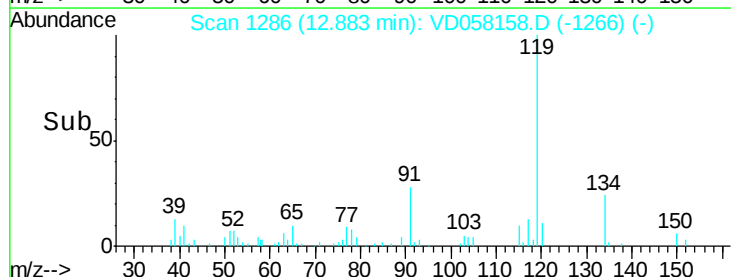
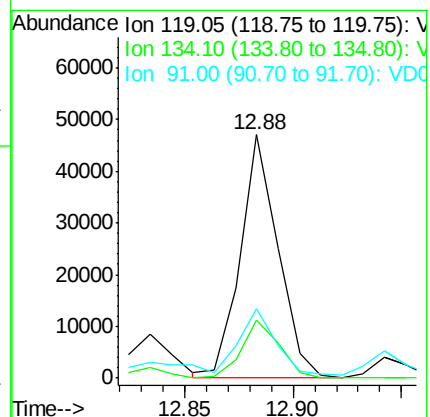
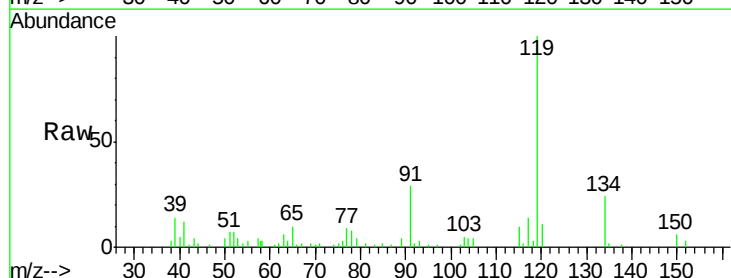
Tgt Ion:119 Resp: 57296

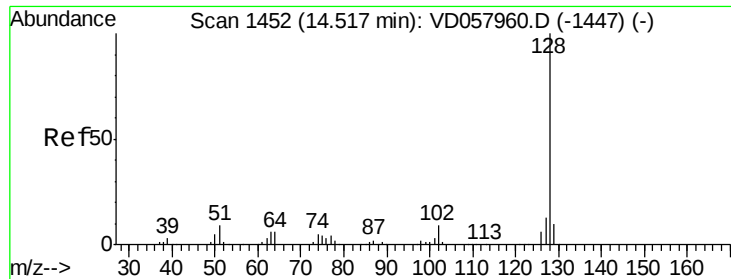
Ion Ratio Lower Upper

119 100

134 23.7 11.5 34.4

91 28.6 14.5 43.6





#95

Naphthalene

Concen: 62.209 ug/l

RT: 14.52 min Scan# 1452

Delta R.T. 0.00 min

Lab File: VD058158.D

Acq: 15 Jun 2018 18:03

Instrument :

MSVOA_D

ClientSampleId :

AREA2(D)

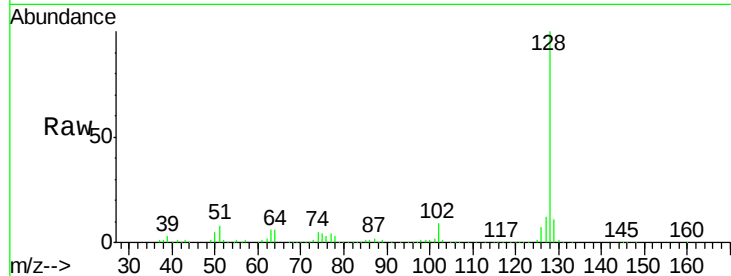
Tot Ion:128 Resp: 500676

Ion Ratio Lower Upper

128 100

127 11.6 10.2 15.2

129 10.6 8.2 12.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

