

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061418\
 Data File : VD058139.D
 Acq On : 14 Jun 2018 16:52
 Operator : VA/AP
 Sample : J3239-11
 Misc : 6.78g/5ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 15 06:04:51 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	641844	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.70	114	837829	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	672430	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	344664	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	273409	42.61	ug/l	0.00
Spiked Amount			Recovery	=	85.22%	
35) Dibromofluoromethane	5.55	113	280906	43.33	ug/l	0.00
Spiked Amount			Recovery	=	86.66%	
50) Toluene-d8	8.71	98	615787	39.96	ug/l	0.00
Spiked Amount			Recovery	=	79.92%	
62) 4-Bromofluorobenzene	11.93	95	266015	39.57	ug/l	0.00
Spiked Amount			Recovery	=	79.14%	

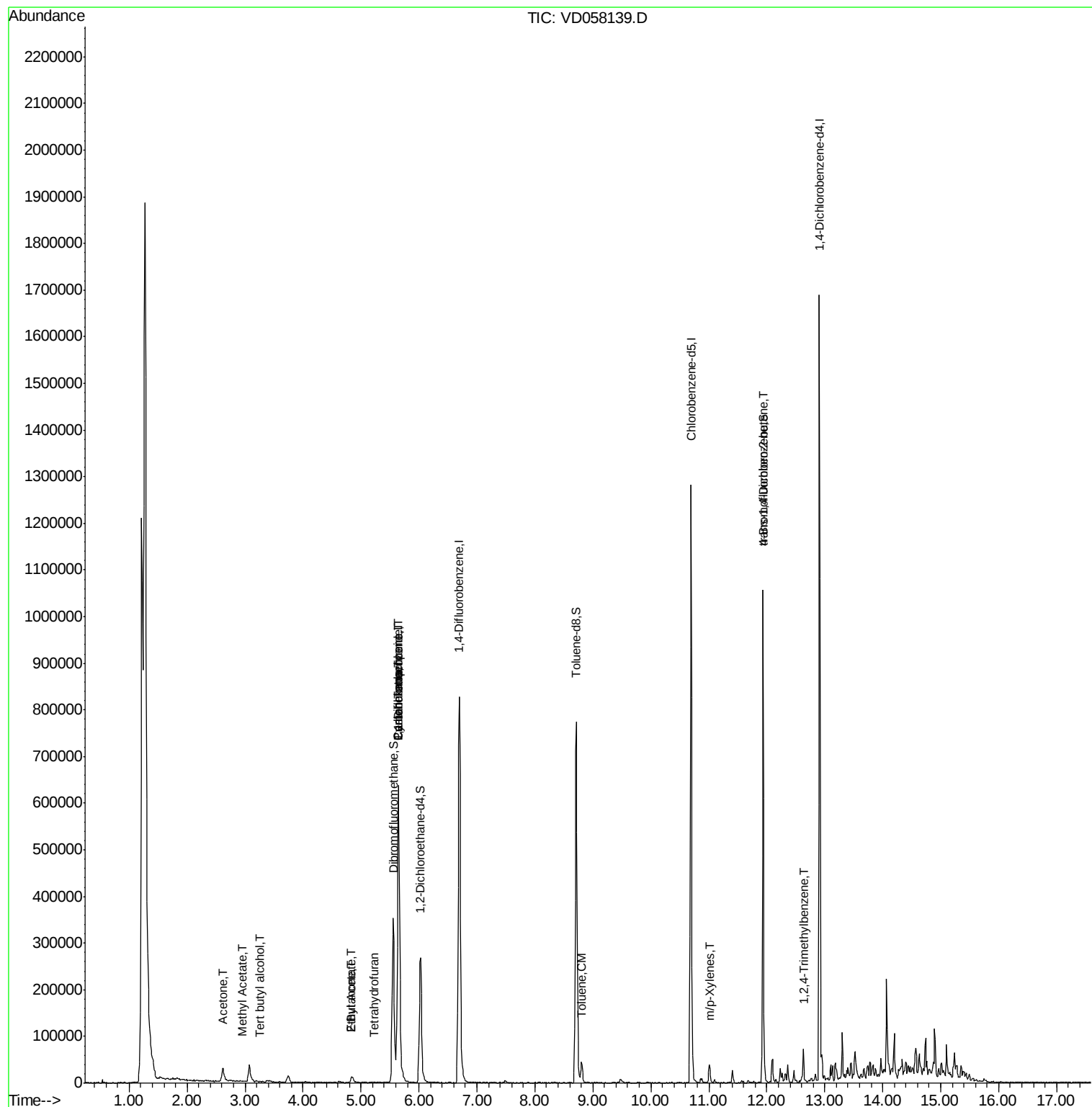
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.25	59	418	2.432	ug/l #	74
16) Acetone	2.61	43	60400	65.333	ug/l	100
18) Methyl Acetate	2.95	43	2146	1.200	ug/l #	66
20) Methylene Chloride	3.07	84	15488	Below Cal	#	87
25) 2-Butanone	4.84	43	12390	5.897	ug/l #	87
29) Tetrahydrofuran	5.22	42	1211	1.100	ug/l #	39
31) Cyclohexane	5.65	56	14274	1.279	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	53119	5.755	ug/l #	53
37) Ethyl Acetate	4.84	43	12390	2.460	ug/l #	72
38) Carbon Tetrachloride	5.64	117	52343	5.754	ug/l #	17
52) Toluene	8.81	92	19710	1.593	ug/l	88
68) m/p-Xylenes	11.01	106	11188	1.395	ug/l	82
81) trans-1,4-Dichloro-2-buten	11.93	75	129169	100.728	ug/l #	6
82) 4-Chlorotoluene	12.33	91	1616	Below Cal	#	50
84) 1,2,4-Trimethylbenzene	12.63	105	31853	1.664	ug/l	98
89) n-Butylbenzene	13.20	91	7484	Below Cal		83

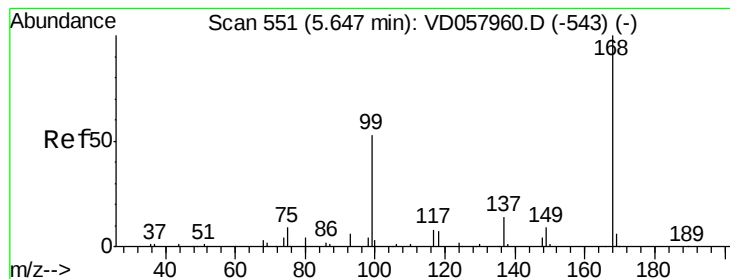
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 07 08:57:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.00 min

Lab File: VD058139.D

Acq: 14 Jun 2018 16:52

Instrument :

MSVOA_D

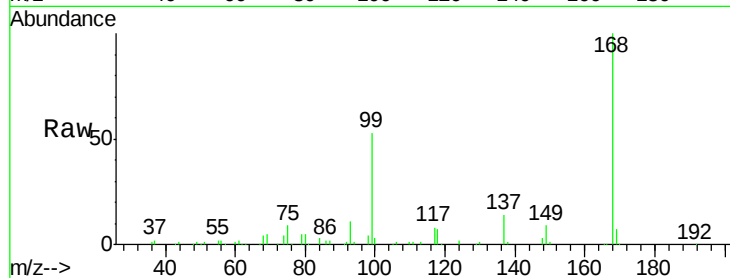
ClientSampleId :

Tot Ion:168 Resp: 641844

Ion Ratio Lower Upper

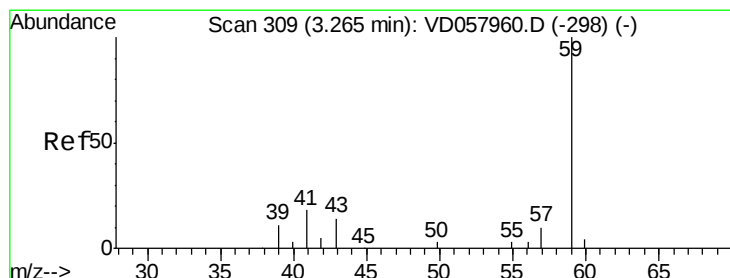
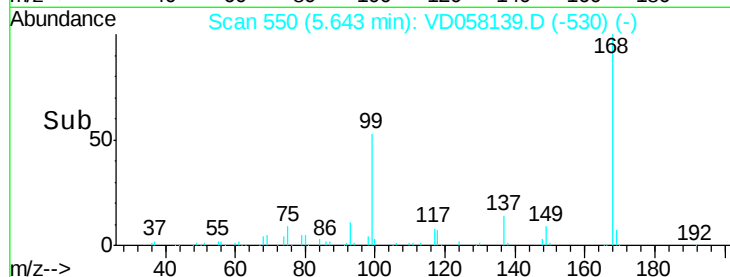
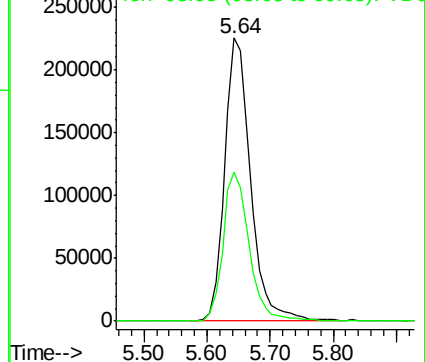
168 100

99 52.7 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 2.432 ug/l

RT: 3.25 min Scan# 307

Delta R.T. -0.01 min

Lab File: VD058139.D

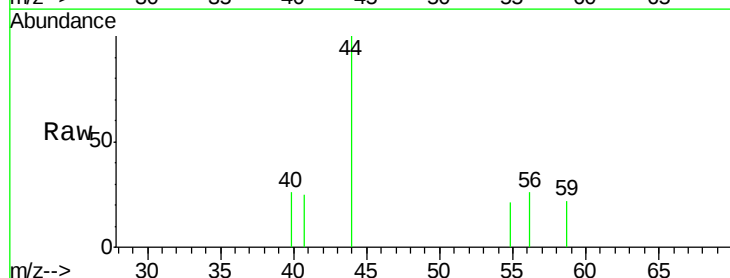
Acq: 14 Jun 2018 16:52

Tgt Ion: 59 Resp: 418

Ion Ratio Lower Upper

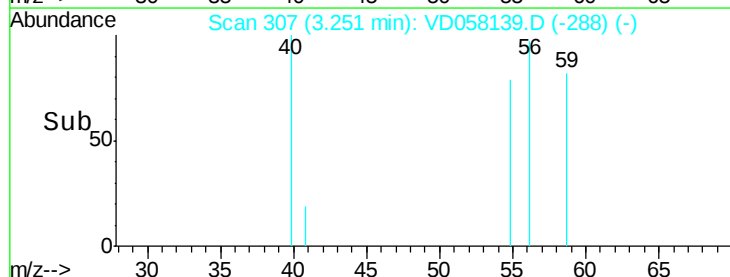
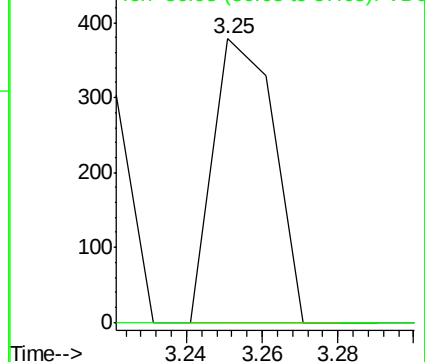
59 100

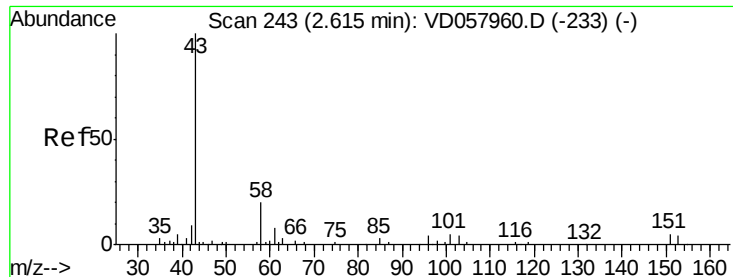
57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

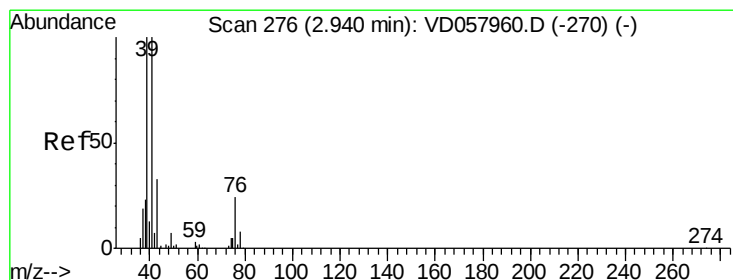
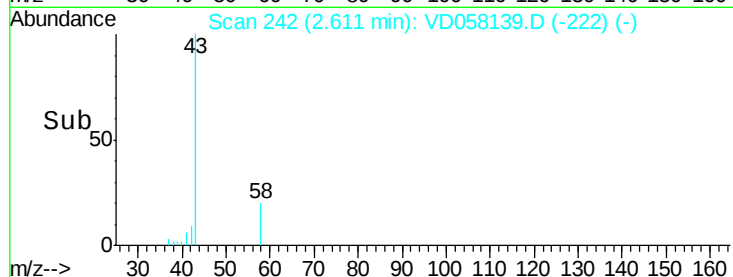
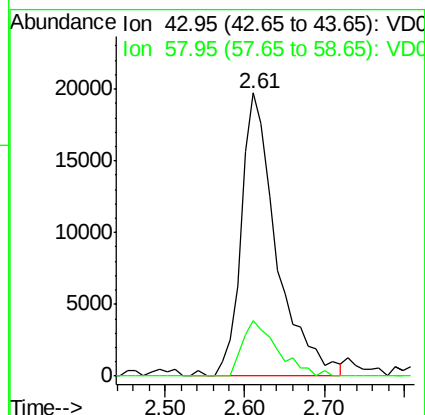
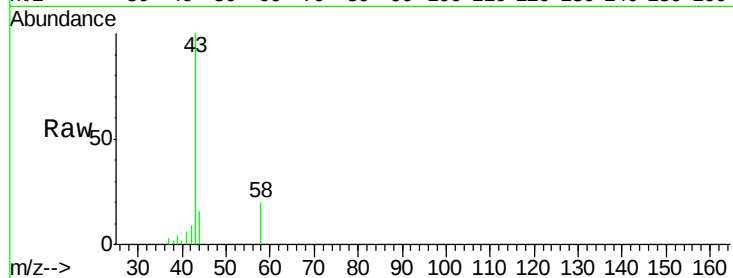




#16
Acetone
Concen: 65.333 ug/l
RT: 2.61 min Scan# 242
Delta R.T. -0.00 min
Lab File: VD058139.D
Acq: 14 Jun 2018 16:52

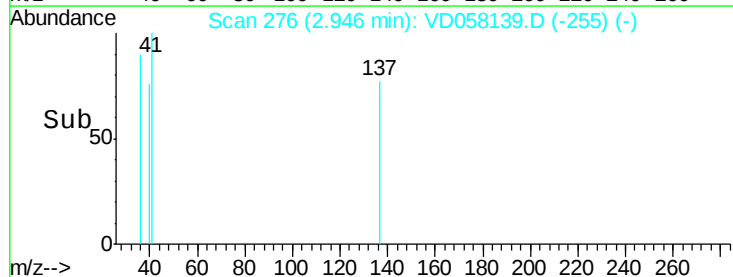
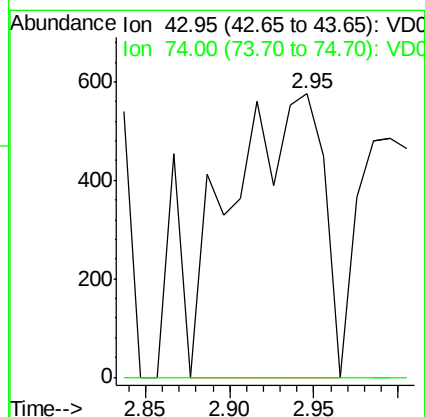
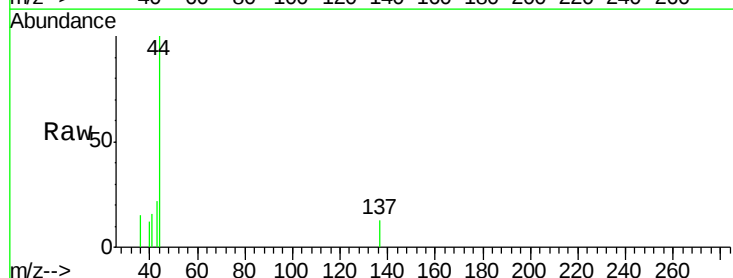
Instrument :
MSVOA_D
ClientSampleId :

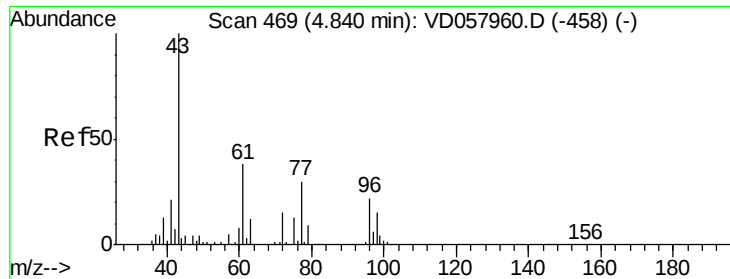
Tot Ion: 43 Resp: 60400
Ion Ratio Lower Upper
43 100
58 19.6 15.8 23.8



#18
Methyl Acetate
Concen: 1.200 ug/l
RT: 2.95 min Scan# 276
Delta R.T. 0.01 min
Lab File: VD058139.D
Acq: 14 Jun 2018 16:52

Tgt Ion: 43 Resp: 2146
Ion Ratio Lower Upper
43 100
74 0.0 11.2 16.8#





#25

2-Butanone

Concen: 5.897 ug/l

RT: 4.84 min Scan# 468

Delta R.T. -0.00 min

Lab File: VD058139.D

Acq: 14 Jun 2018 16:52

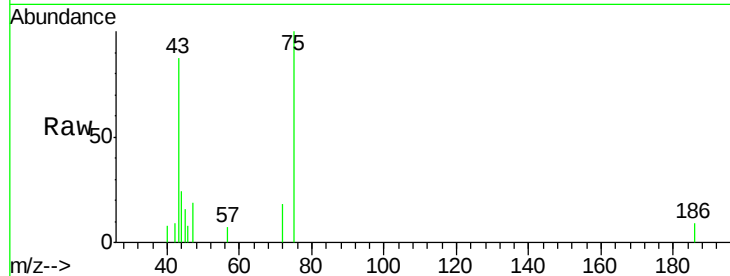
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 12390

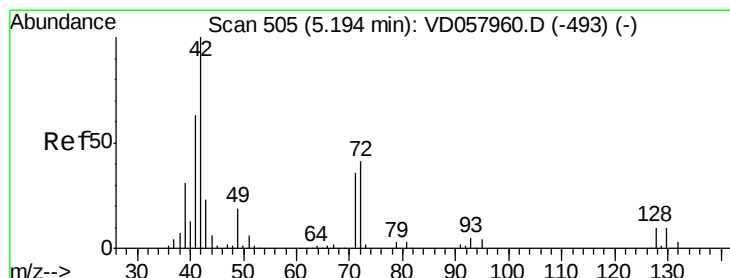
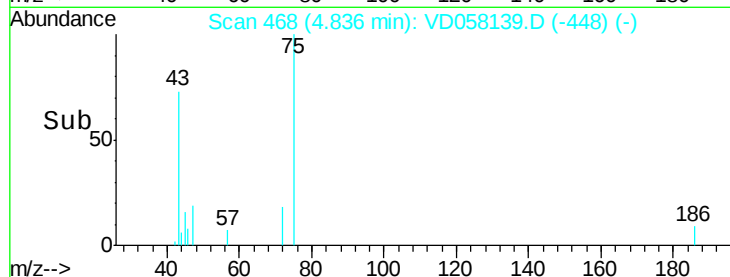
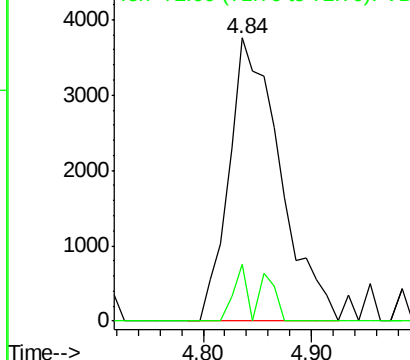
Ion Ratio Lower Upper

43 100

72 20.3 12.0 18.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.100 ug/l

RT: 5.22 min Scan# 507

Delta R.T. 0.03 min

Lab File: VD058139.D

Acq: 14 Jun 2018 16:52

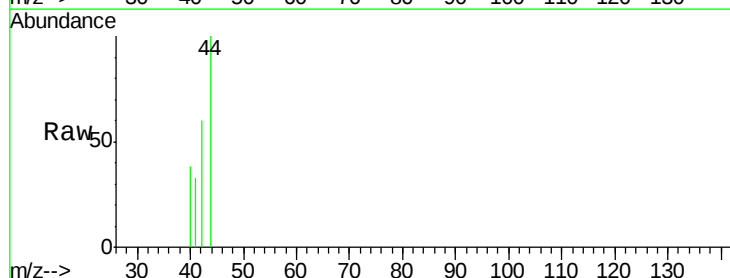
Tgt Ion: 42 Resp: 1211

Ion Ratio Lower Upper

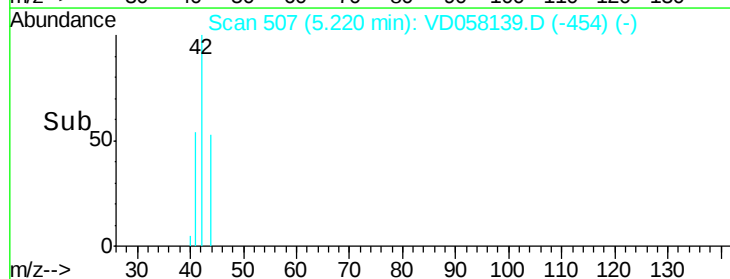
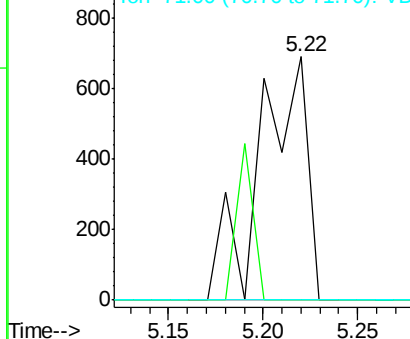
42 100

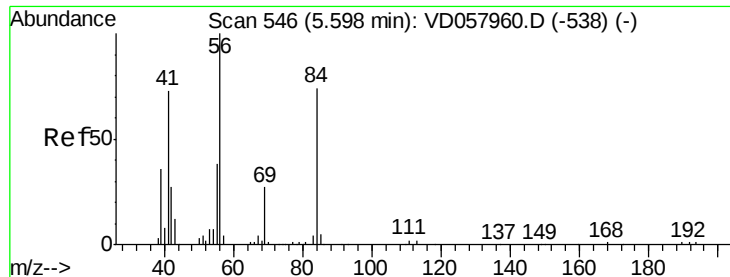
72 0.0 28.5 42.7#

71 0.0 27.9 41.9#



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

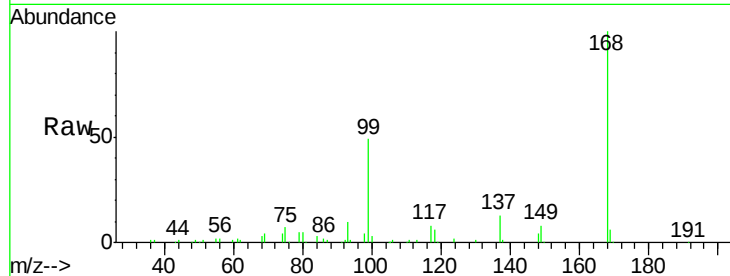




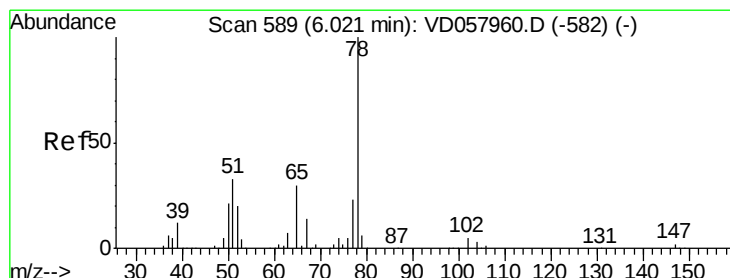
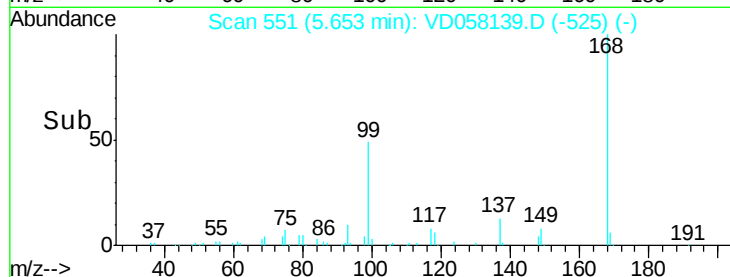
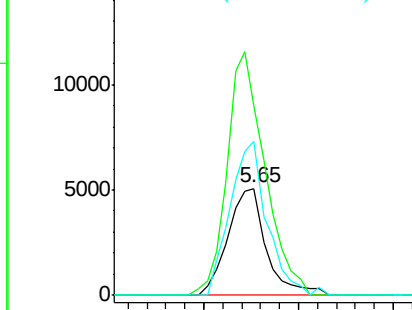
#31
Cyclohexane
Concen: 1.279 ug/l
RT: 5.65 min Scan# 551
Delta R.T. 0.05 min
Lab File: VD058139.D
Acq: 14 Jun 2018 16:52

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 14274
Ion Ratio Lower Upper
56 100
69 177.2 21.5 32.3#
84 144.1 61.0 91.6#

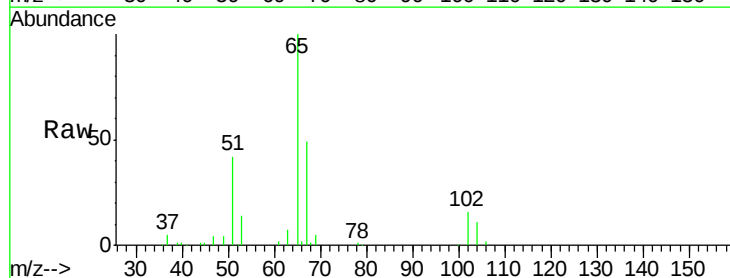


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

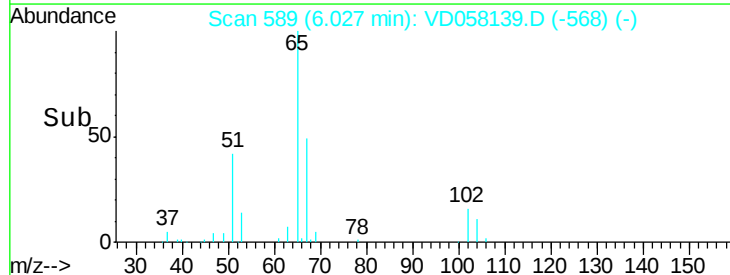
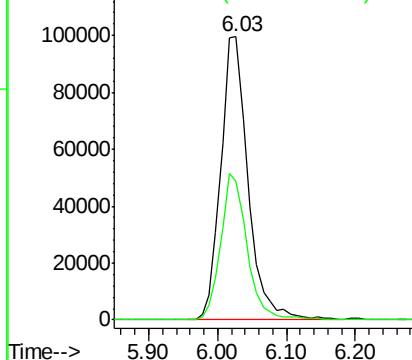


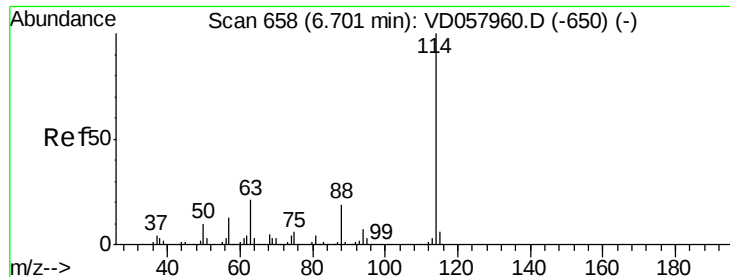
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.03 min Scan# 589
Delta R.T. 0.01 min
Lab File: VD058139.D
Acq: 14 Jun 2018 16:52

Tgt Ion: 65 Resp: 273409
Ion Ratio Lower Upper
65 100
67 49.2 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: 6.70 min Scan# 657

Delta R.T. -0.00 min

Lab File: VD058139.D

Acq: 14 Jun 2018 16:52

Instrument :

MSVOA_D

ClientSampleId :

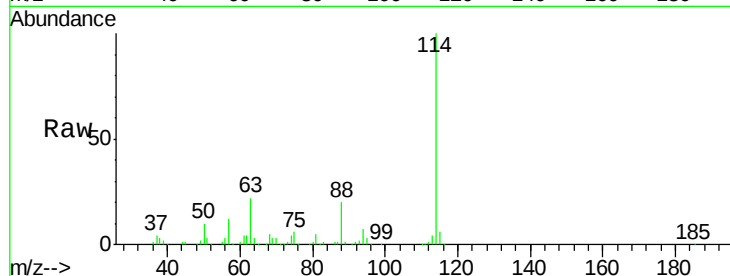
Tot Ion:114 Resp: 837829

Ion Ratio Lower Upper

114 100

63 22.1 0.0 42.8

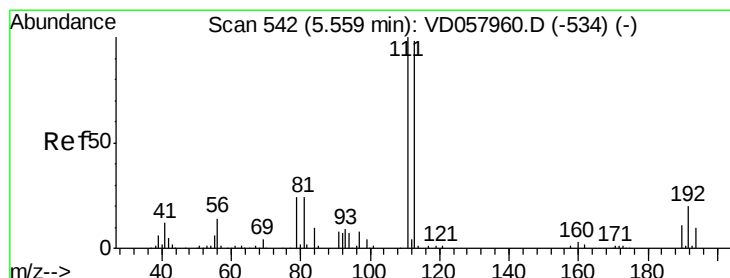
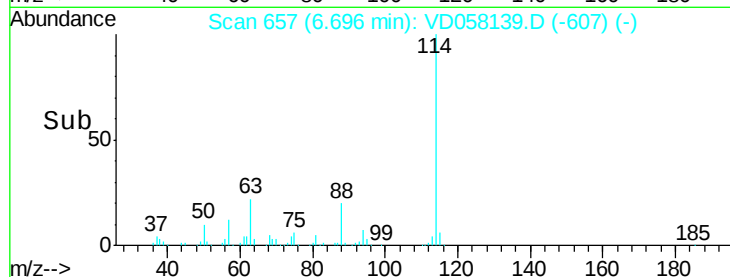
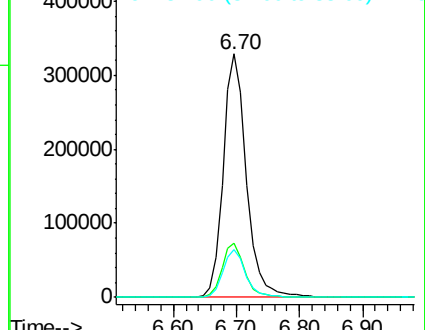
88 19.6 0.0 37.8



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: 50.000 ug/l

RT: 5.55 min Scan# 541

Delta R.T. -0.00 min

Lab File: VD058139.D

Acq: 14 Jun 2018 16:52

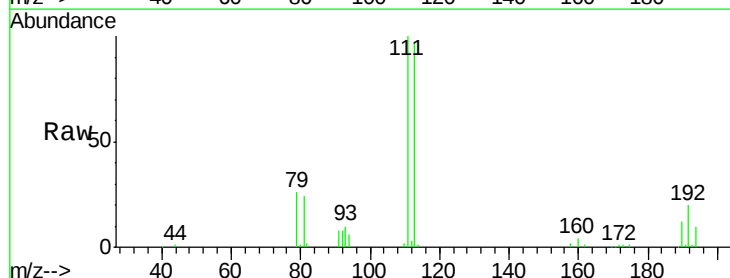
Tgt Ion:113 Resp: 280906

Ion Ratio Lower Upper

113 100

111 103.4 81.5 122.3

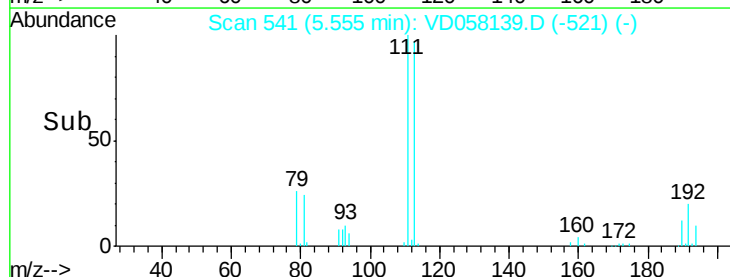
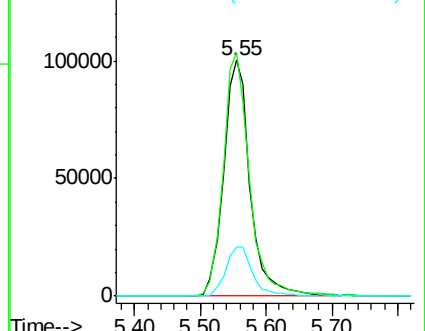
192 20.8 16.4 24.6

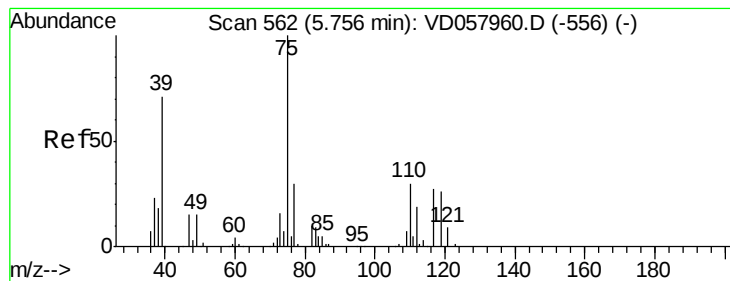


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.755 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.11 min

Lab File: VD058139.D

Acq: 14 Jun 2018 16:52

Instrument :

MSVOA_D

ClientSampleId :

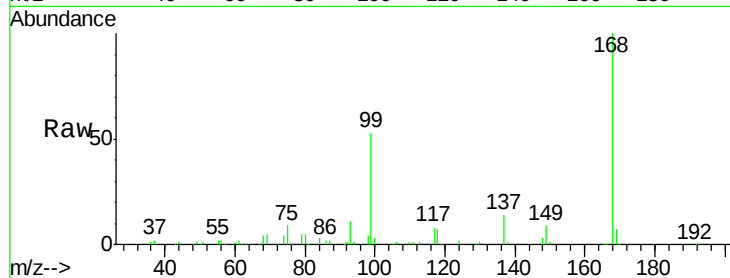
Tot Ion: 75 Resp: 53119

Ion Ratio Lower Upper

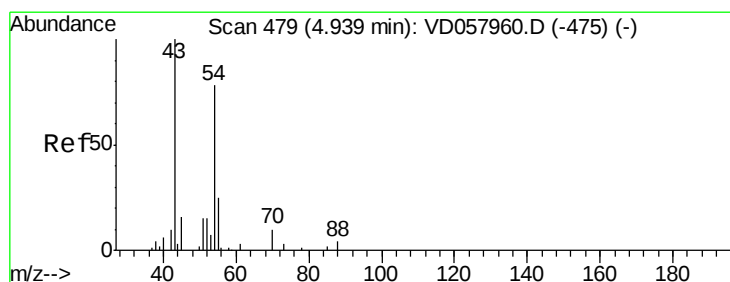
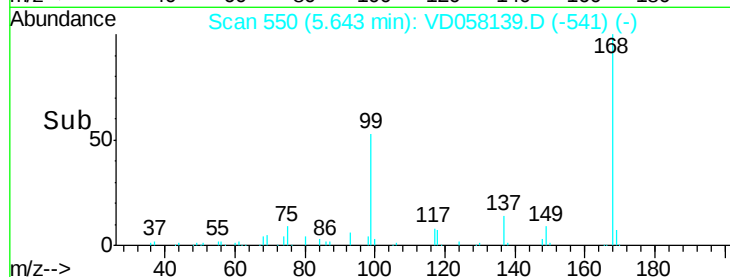
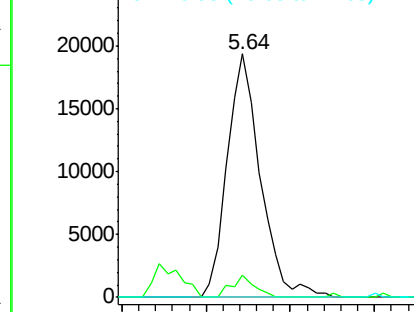
75 100

110 9.0 14.8 44.3#

77 0.0 23.9 35.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): VDC
Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 2.460 ug/l

RT: 4.84 min Scan# 468

Delta R.T. -0.10 min

Lab File: VD058139.D

Acq: 14 Jun 2018 16:52

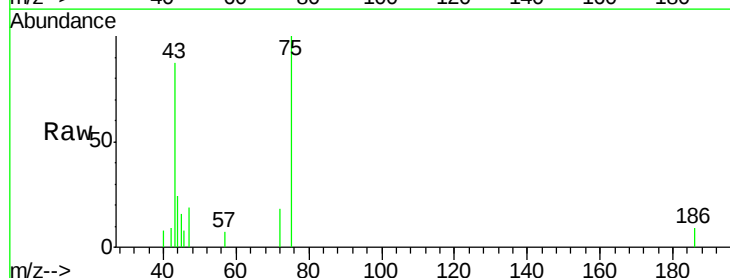
Tgt Ion: 43 Resp: 12390

Ion Ratio Lower Upper

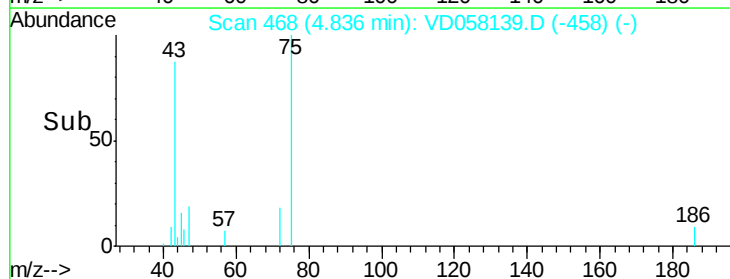
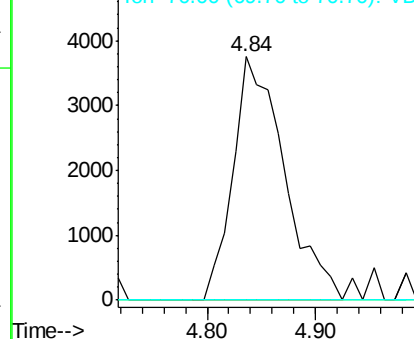
43 100

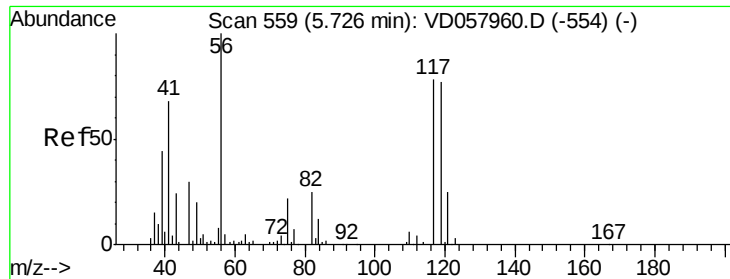
61 0.0 9.9 14.9#

70 0.0 5.7 8.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

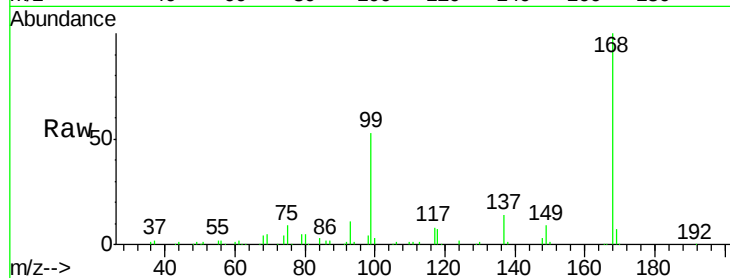




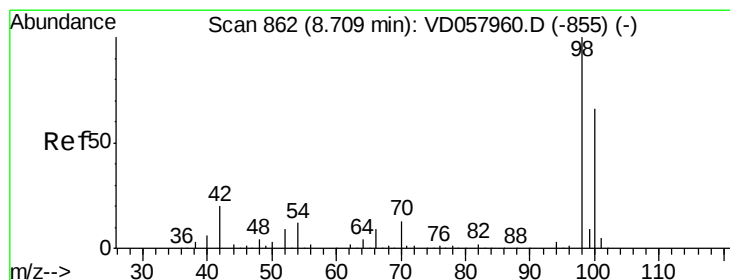
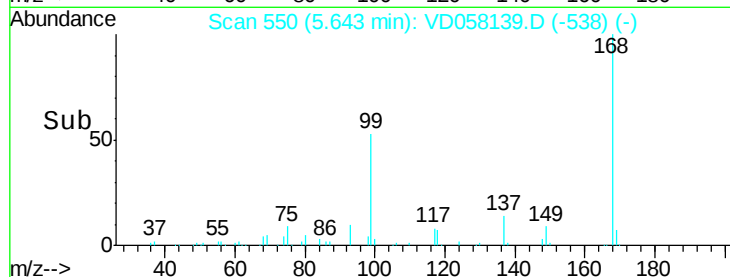
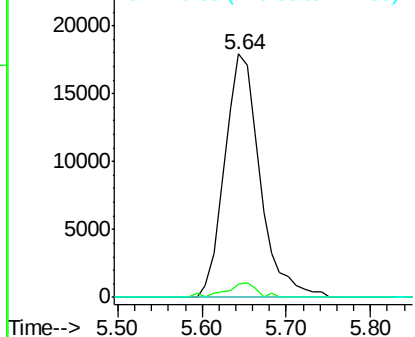
#38
Carbon Tetrachloride
Concen: 5.754 ug/l
RT: 5.64 min Scan# 550
Delta R.T. -0.08 min
Lab File: VD058139.D
Acq: 14 Jun 2018 16:52

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 52343
Ion Ratio Lower Upper
117 100
119 5.5 76.1 114.1#
121 0.0 24.9 37.3#

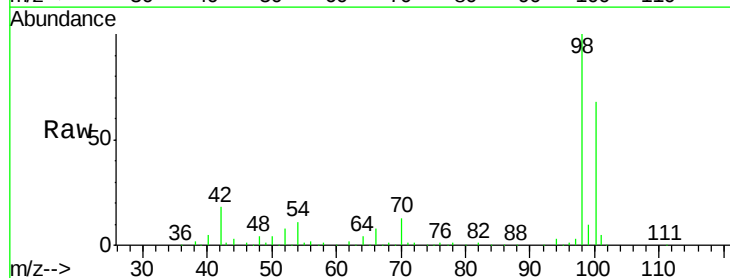


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

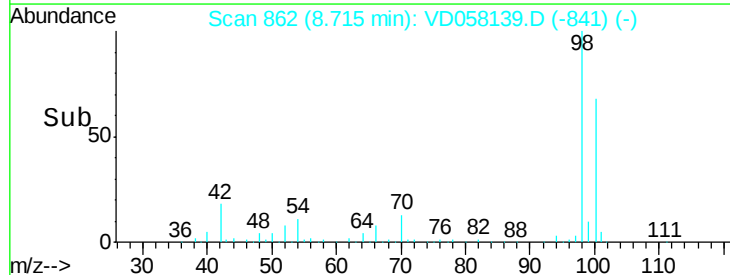
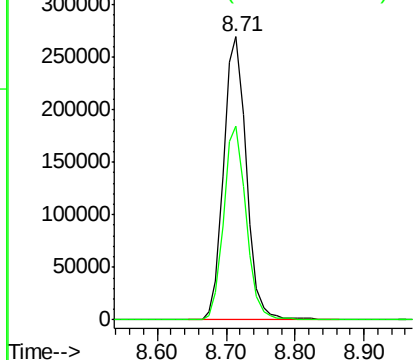


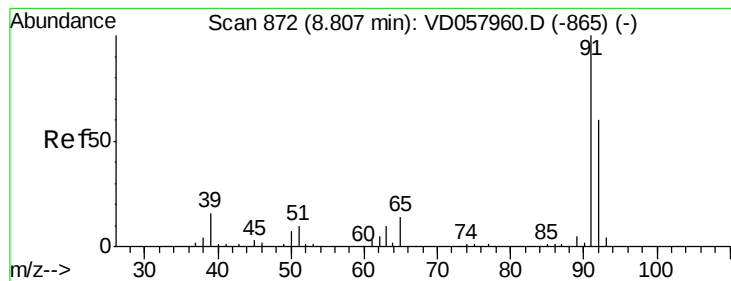
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.71 min Scan# 862
Delta R.T. 0.01 min
Lab File: VD058139.D
Acq: 14 Jun 2018 16:52

Tgt Ion: 98 Resp: 615787
Ion Ratio Lower Upper
98 100
100 68.2 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: 1.593 ug/l

RT: 8.81 min Scan# 872

Delta R.T. 0.01 min

Lab File: VD058139.D

Acq: 14 Jun 2018 16:52

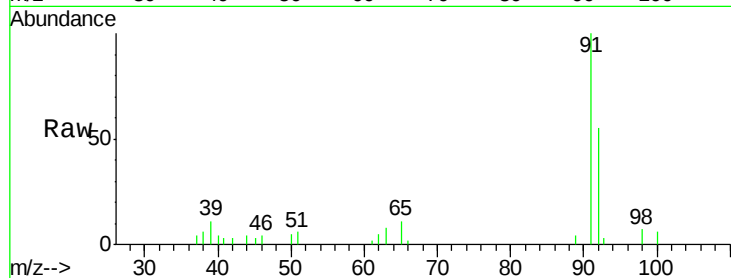
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 92 Resp: 19710

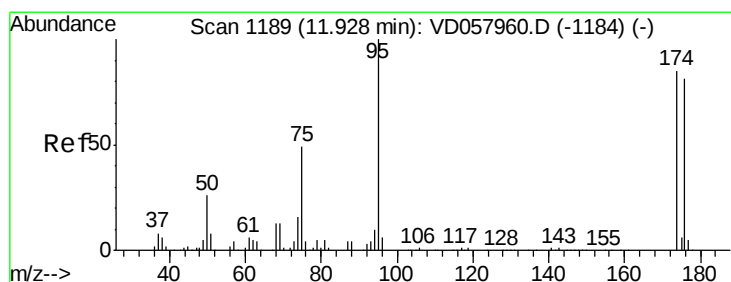
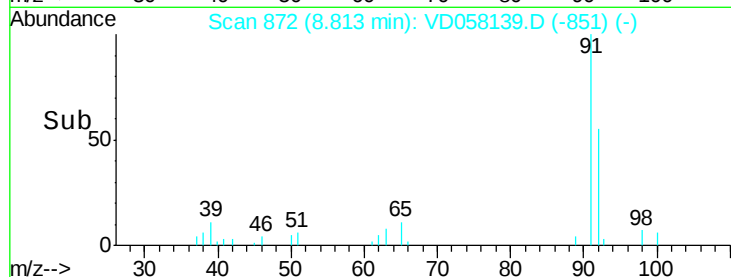
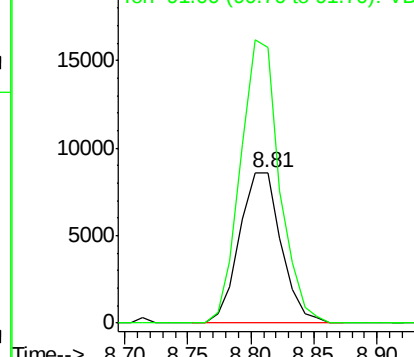
Ion Ratio Lower Upper

92 100

91 183.0 133.0 199.6



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. 0.01 min

Lab File: VD058139.D

Acq: 14 Jun 2018 16:52

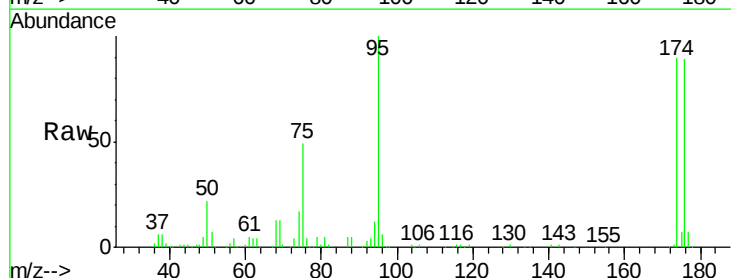
Tgt Ion: 95 Resp: 266015

Ion Ratio Lower Upper

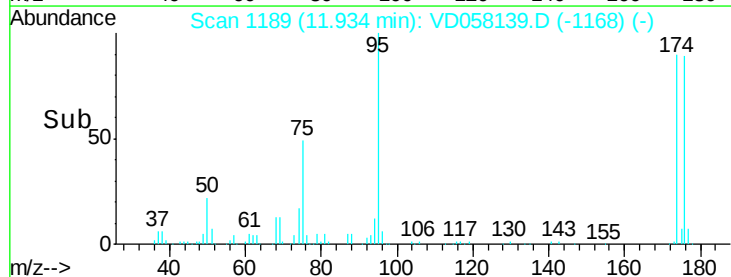
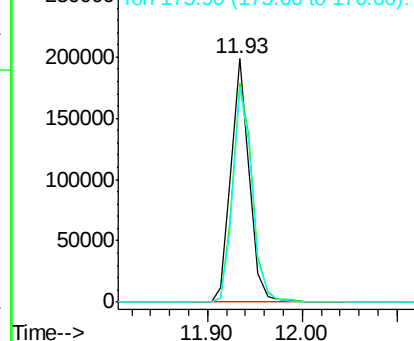
95 100

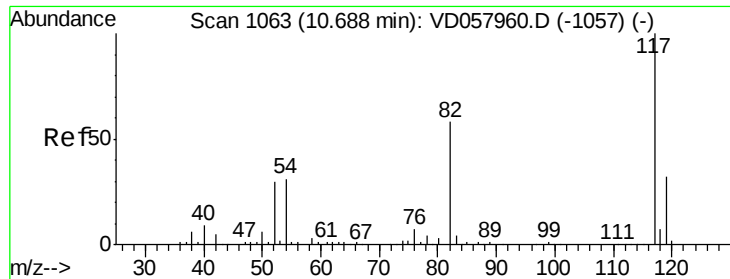
174 90.2 0.0 169.4

176 88.5 0.0 162.6



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

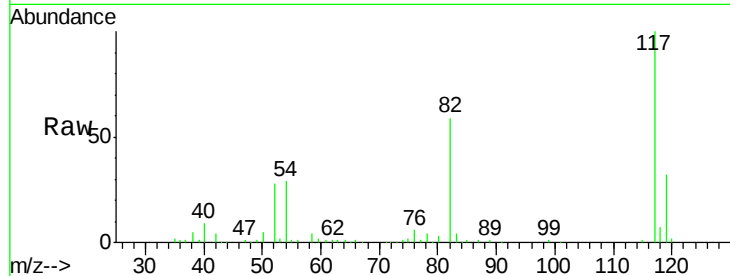




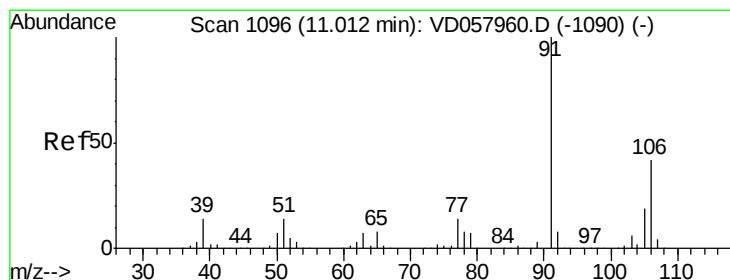
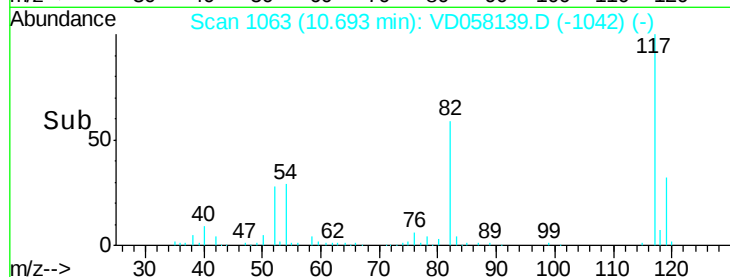
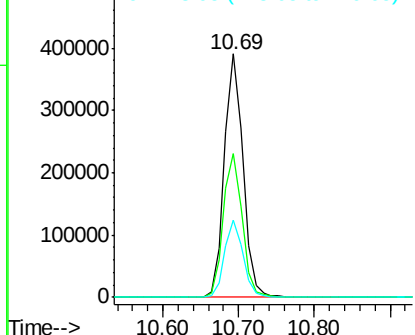
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.69 min Scan# 1063
Delta R.T. 0.01 min
Lab File: VD058139.D
Acq: 14 Jun 2018 16:52

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 672430
Ion Ratio Lower Upper
117 100
82 59.1 46.8 70.2
119 31.6 25.8 38.6

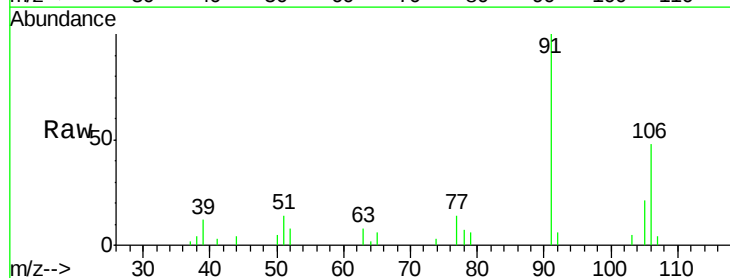


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): VDC
Ion 118.95 (118.65 to 119.65): V

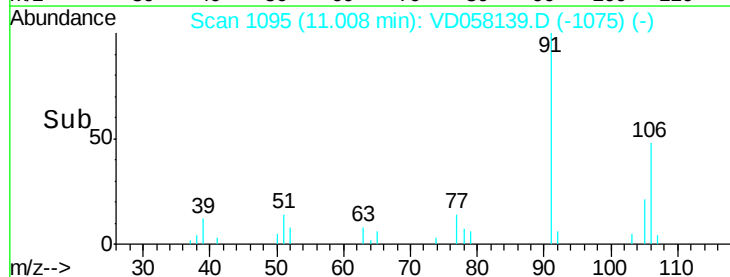
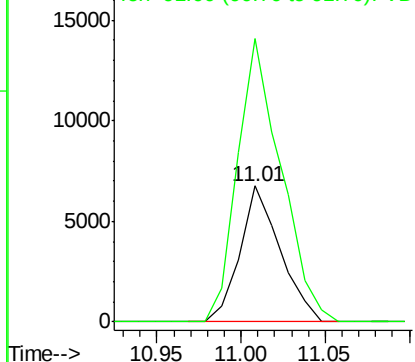


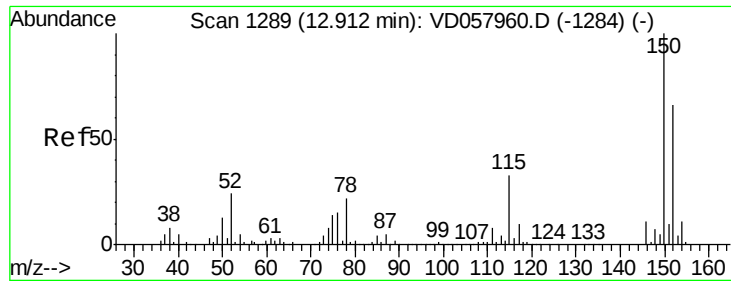
#68
m/p-Xylenes
Concen: 1.395 ug/l
RT: 11.01 min Scan# 1095
Delta R.T. -0.00 min
Lab File: VD058139.D
Acq: 14 Jun 2018 16:52

Tgt Ion:106 Resp: 11188
Ion Ratio Lower Upper
106 100
91 208.0 190.4 285.6



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: 50.000 ug/l

RT: 12.91 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VD058139.D

Acq: 14 Jun 2018 16:52

Instrument :

MSVOA_D

ClientSampleId :

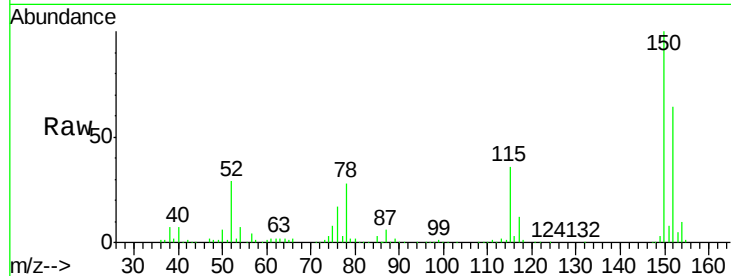
Tot Ion:152 Resp: 344664

Ion Ratio Lower Upper

152 100

115 56.7 25.6 76.6

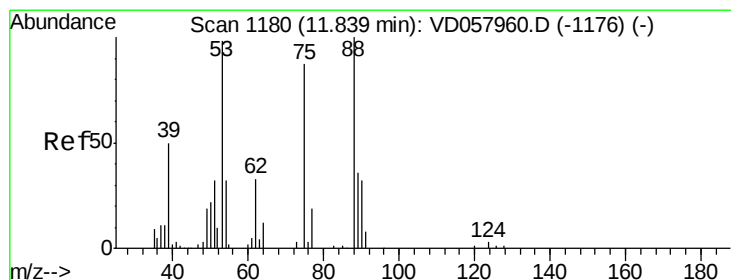
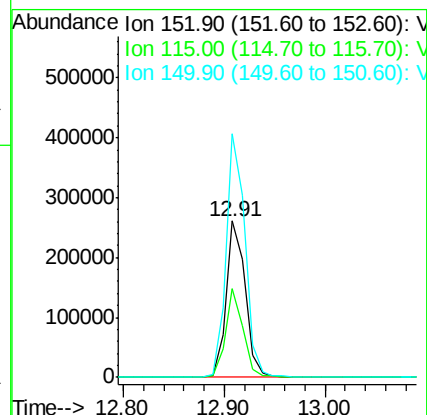
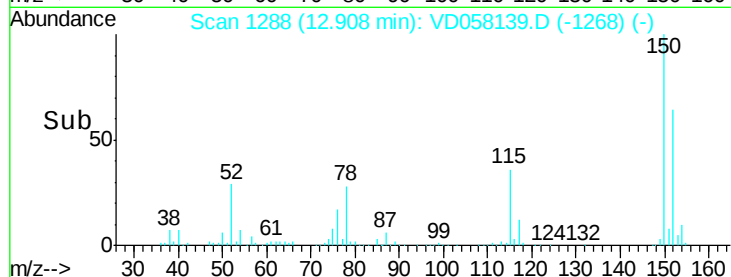
150 155.6 0.0 306.8



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



#81

trans-1,4-Dichloro-2-butene

Concen: 100.728 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058139.D

Acq: 14 Jun 2018 16:52

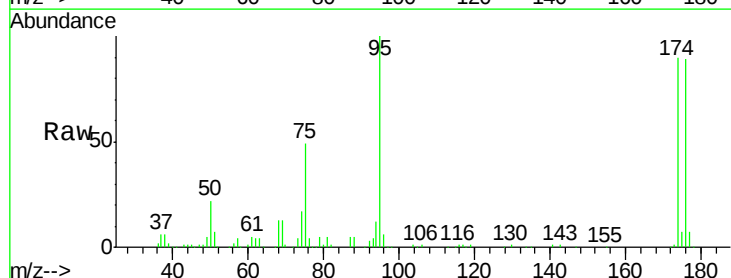
Tgt Ion: 75 Resp: 129169

Ion Ratio Lower Upper

75 100

53 0.0 89.3 133.9#

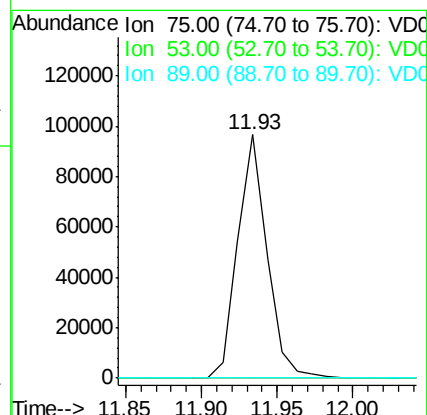
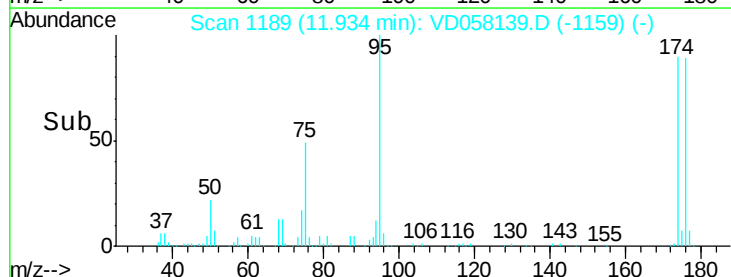
89 0.0 33.3 49.9#

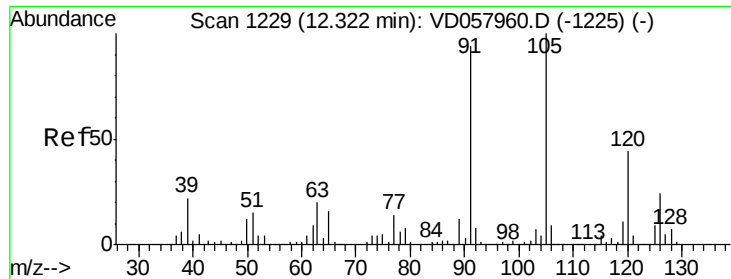


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.33 min Scan# 1229

Delta R.T. 0.01 min

Lab File: VD058139.D

Acq: 14 Jun 2018 16:52

Instrument :

MSVOA_D

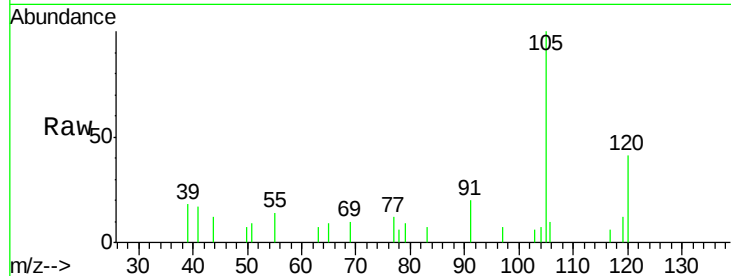
ClientSampleId :

Tot Ion: 91 Resp: 1616

Ion Ratio Lower Upper

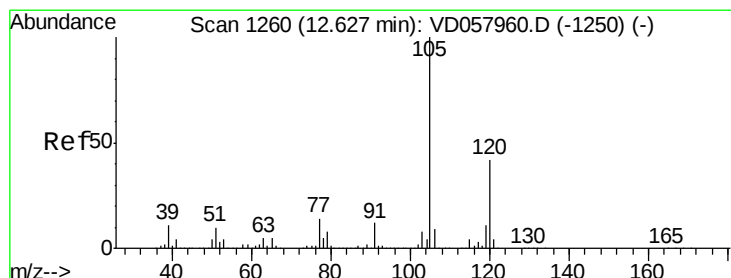
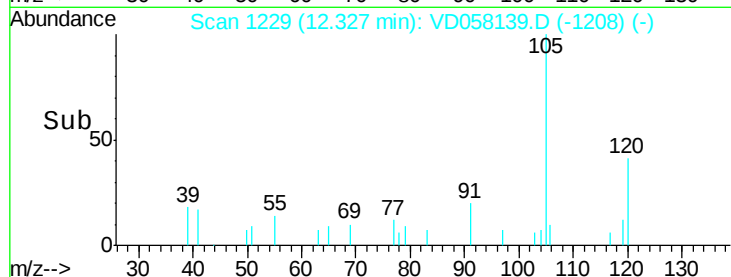
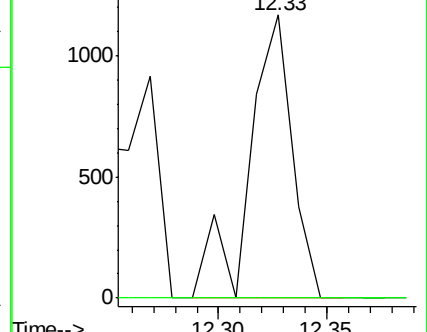
91 100

126 0.0 12.5 37.5#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#84

1,2,4-Trimethylbenzene

Concen: 1.664 ug/l

RT: 12.63 min Scan# 1260

Delta R.T. 0.01 min

Lab File: VD058139.D

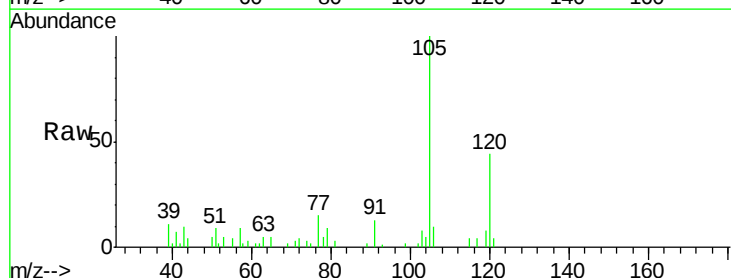
Acq: 14 Jun 2018 16:52

Tgt Ion: 105 Resp: 31853

Ion Ratio Lower Upper

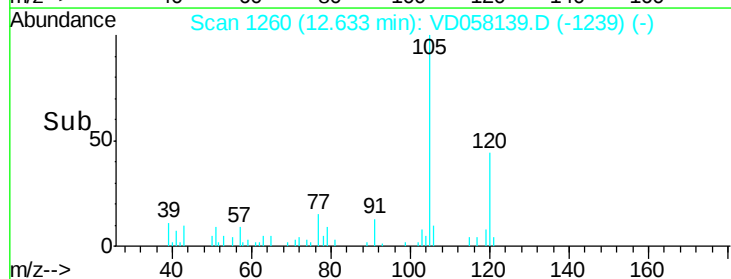
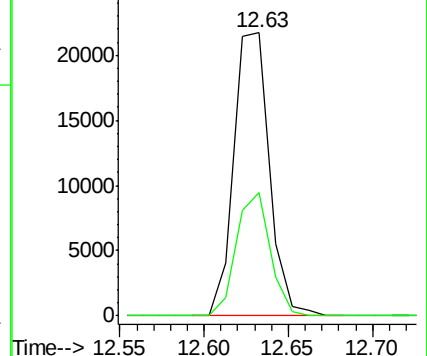
105 100

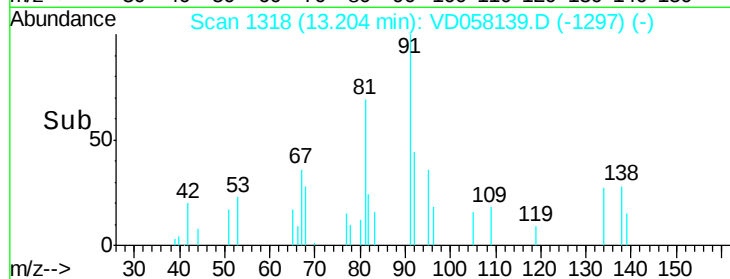
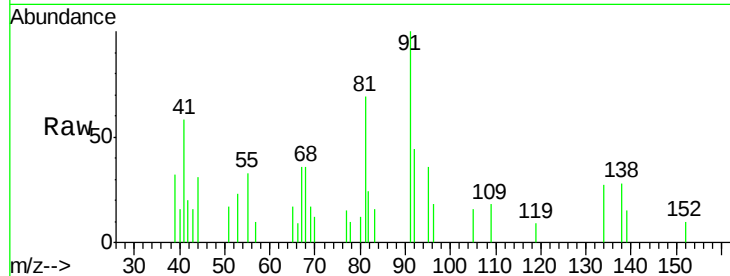
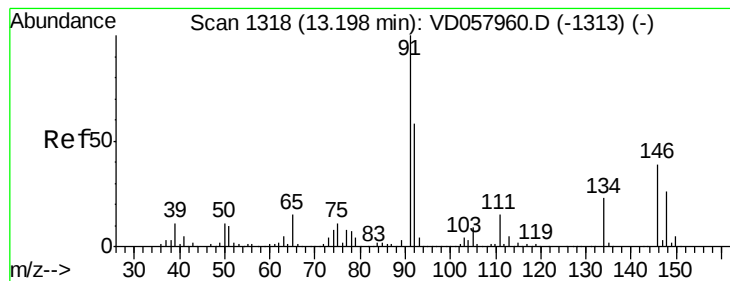
120 43.7 21.2 63.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#89

n-Butylbenzene

Concen: Below Cal

RT: 13.20 min Scan# 1318

Delta R.T. 0.01 min

Lab File: VD058139.D

Acq: 14 Jun 2018 16:52

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 91 Resp: 7484

Ion Ratio Lower Upper

91 100

92 44.0 29.2 87.6

134 27.2 11.3 33.9

