

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062318\
 Data File : VD058359.D
 Acq On : 23 Jun 2018 23:49
 Operator : VA/AP
 Sample : J3669-05
 Misc : 6.42g/5ml/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 25 01:14:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	775276	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	6.71	114	1046329	50.00	ug/l	0.02
63) Chlorobenzene-d5	10.70	117	862280	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	444792	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	487160	62.21	ug/l	0.02
Spiked Amount	50.000		Recovery	=	124.42%	
35) Dibromofluoromethane	5.57	113	511682	60.08	ug/l	0.02
Spiked Amount	50.000		Recovery	=	120.16%	
50) Toluene-d8	8.72	98	1175585	57.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.12%	
62) 4-Bromofluorobenzene	11.94	95	525396	62.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	124.84%	

Target Compounds

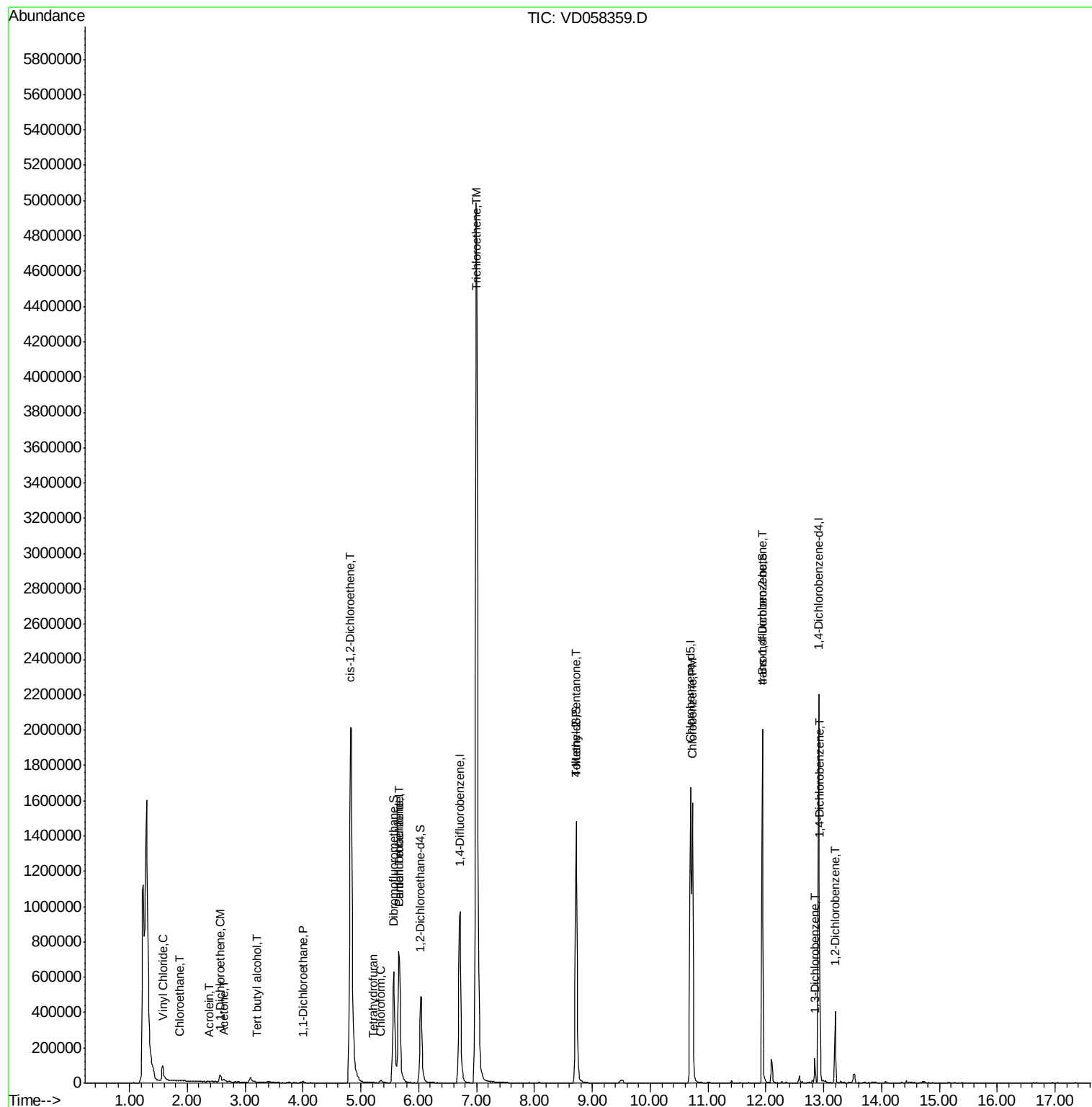
						Qvalue
2) Dichlorodifluoromethane	1.37	85	1106	Below Cal	#	43
3) Chloromethane	1.56	50	680	Below Cal	#	43
4) Vinyl Chloride	1.57	62	116676	28.73	ug/l	96
5) Bromomethane	1.90	94	280	Below Cal	#	3
6) Chloroethane	1.87	64	200	1.52	ug/l	41
11) Tert butyl alcohol	3.22	59	276	1.07	ug/l	78
12) 1,1-Dichloroethene	2.57	96	15862	5.96	ug/l	93
13) Acrolein	2.36	56	200	1.36	ug/l	11
16) Acetone	2.63	43	25087	23.43	ug/l	93
24) 1,1-Dichloroethane	4.00	63	15161	1.14	ug/l	88
27) cis-1,2-Dichloroethene	4.82	96	1323562	181.95	ug/l	90
29) Tetrahydrofuran	5.21	42	2152	1.73	ug/l	46
30) Chloroform	5.35	83	14618	1.04	ug/l	93
31) Cyclohexane	5.66	56	17846	Below Cal	#	1
38) Carbon Tetrachloride	5.66	117	63778	6.20	ug/l	14
44) Trichloroethene	7.00	130	2182229	294.74	ug/l	94
51) 4-Methyl-2-Pentanone	8.72	43	8210	1.60	ug/l	1
65) Chlorobenzene	10.73	112	812617	50.38	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.94	75	245270	154.86	ug/l	1
82) 4-Chlorotoluene	12.32	91	808	Below Cal	#	45
87) 1,3-Dichlorobenzene	12.84	146	42771	3.09	ug/l	97
88) 1,4-Dichlorobenzene	12.93	146	105671	7.81	ug/l	99
91) 1,2-Dichlorobenzene	13.20	146	121078	10.27	ug/l	98

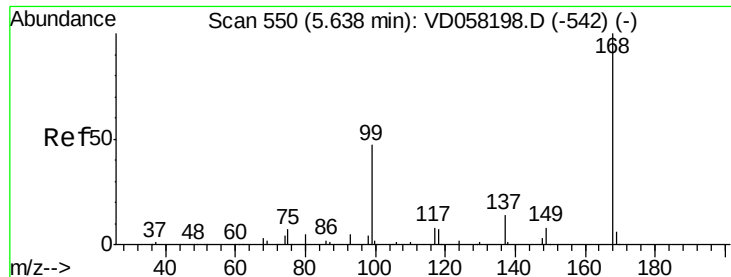
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 552

Delta R.T. 0.02 min

Lab File: VD058359.D

Acq: 23 Jun 2018 23:49

Instrument :

MSVOA_D

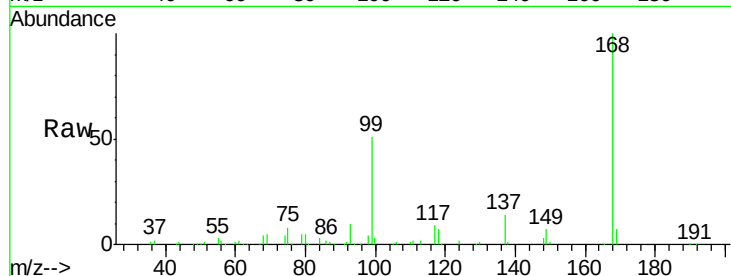
ClientSampleId :

Tot Ion:168 Resp: 775276

Ion Ratio Lower Upper

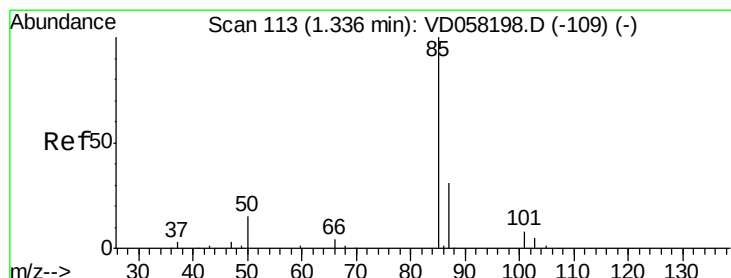
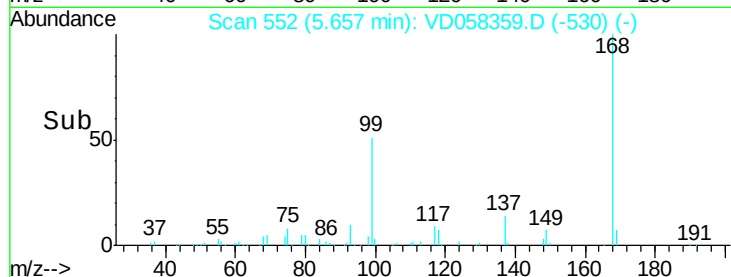
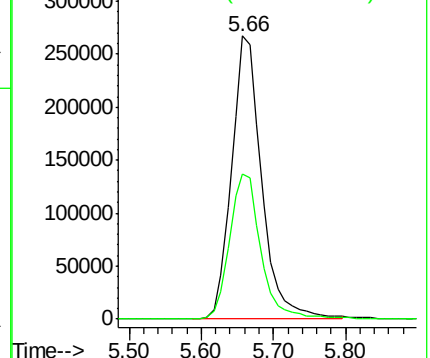
168 100

99 51.3 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.37 min Scan# 116

Delta R.T. 0.03 min

Lab File: VD058359.D

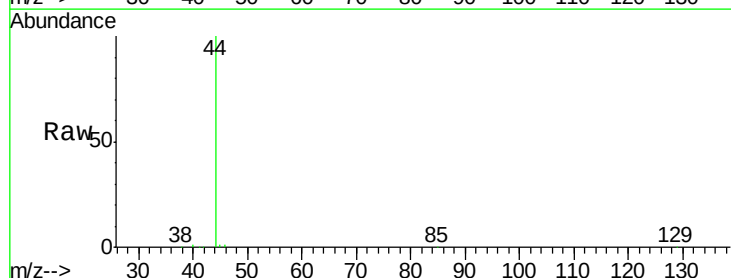
Acq: 23 Jun 2018 23:49

Tgt Ion: 85 Resp: 1106

Ion Ratio Lower Upper

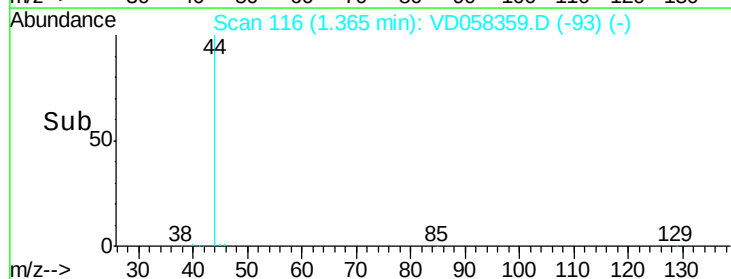
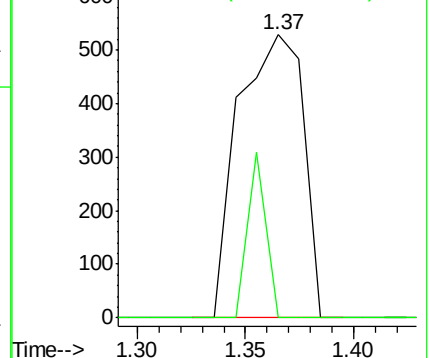
85 100

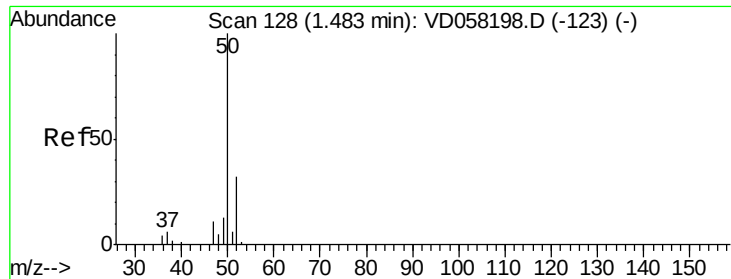
87 0.0 15.7 47.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: Below Cal

RT: 1.56 min Scan# 136

Delta R.T. 0.08 min

Lab File: VD058359.D

Acq: 23 Jun 2018 23:49

Instrument :

MSVOA_D

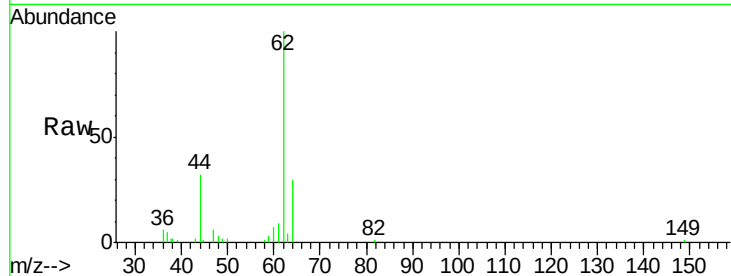
ClientSampleId :

Tot Ion: 50 Resp: 680

Ion Ratio Lower Upper

50 100

52 0.0 25.0 37.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.56

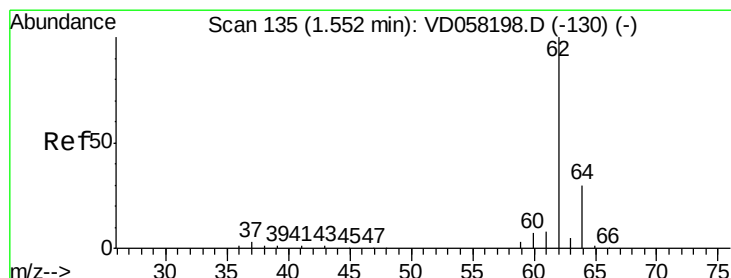
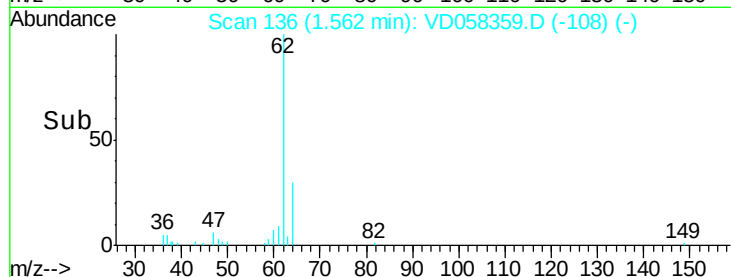
600

400

200

0

Time--> 1.52 1.54 1.56 1.58 1.60



#4

Vinyl Chloride

Concen: 28.73 ug/l

RT: 1.57 min Scan# 137

Delta R.T. 0.02 min

Lab File: VD058359.D

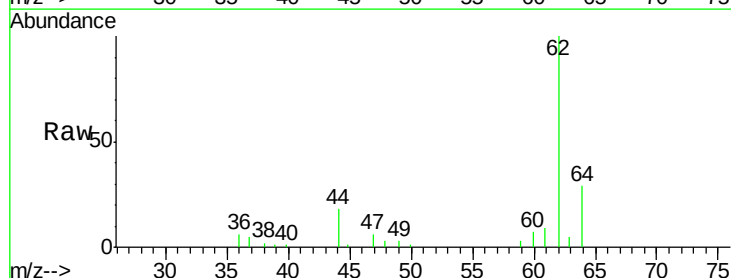
Acq: 23 Jun 2018 23:49

Tgt Ion: 62 Resp: 116676

Ion Ratio Lower Upper

62 100

64 28.6 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.57

60000

50000

40000

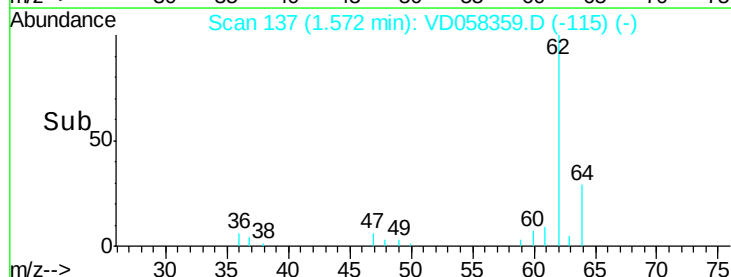
30000

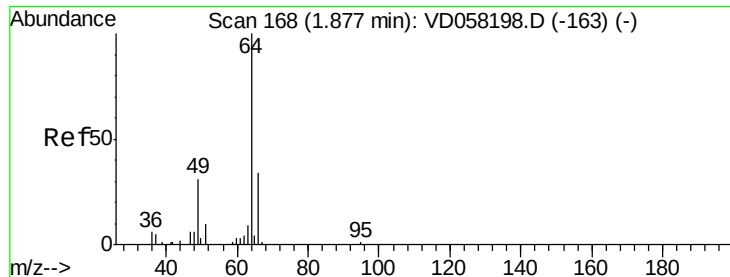
20000

10000

0

Time--> 1.50 1.55 1.60 1.65 1.70





#6

Chloroethane

Concen: 1.52 ug/l

RT: 1.87 min Scan# 167

Delta R.T. -0.01 min

Lab File: VD058359.D

Acq: 23 Jun 2018 23:49

Instrument :

MSVOA_D

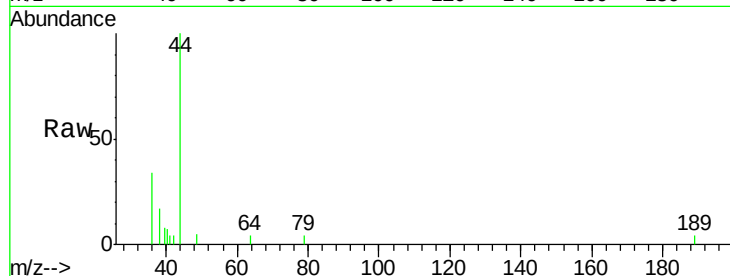
ClientSampleId :

Tot Ion: 64 Resp: 200

Ion Ratio Lower Upper

64 100

66 0.0 27.3 40.9#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

1.87

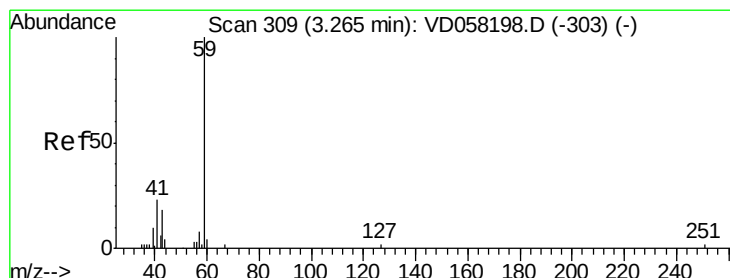
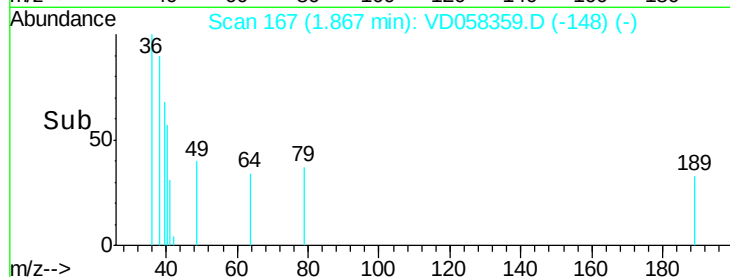
300

200

100

0

Time-->



#11

Tert butyl alcohol

Concen: 1.07 ug/l

RT: 3.22 min Scan# 304

Delta R.T. -0.05 min

Lab File: VD058359.D

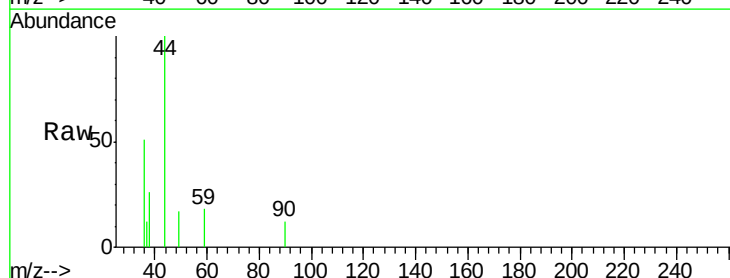
Acq: 23 Jun 2018 23:49

Tgt Ion: 59 Resp: 276

Ion Ratio Lower Upper

59 100

57 0.0 6.2 9.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

3.22

500

400

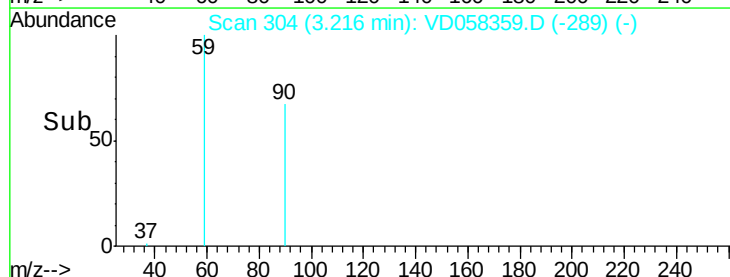
300

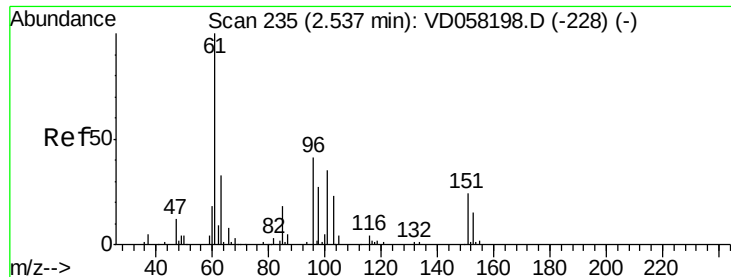
200

100

0

Time-->





#12

1,1-Dichloroethene

Concen: 5.96 ug/l

RT: 2.57 min Scan# 238

Delta R.T. 0.03 min

Lab File: VD058359.D

Acq: 23 Jun 2018 23:49

Instrument :

MSVOA_D

ClientSampled :

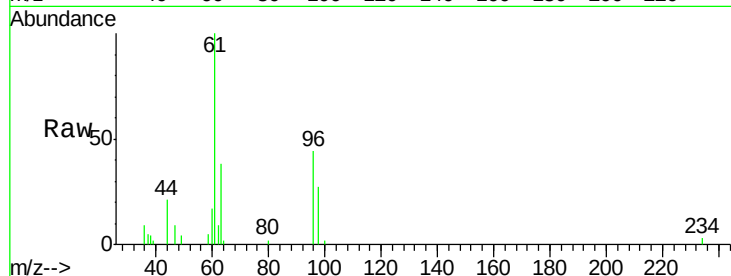
Tot Ion: 96 Resp: 15862

Ion Ratio Lower Upper

96 100

61 228.7 193.9 290.9

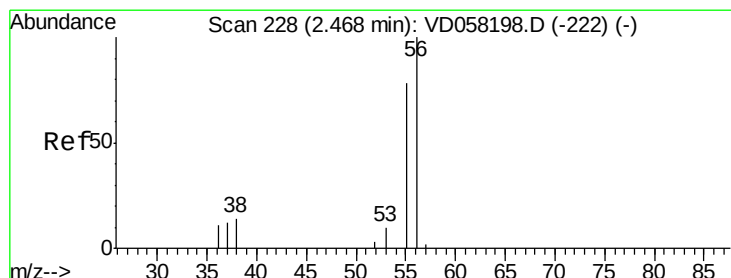
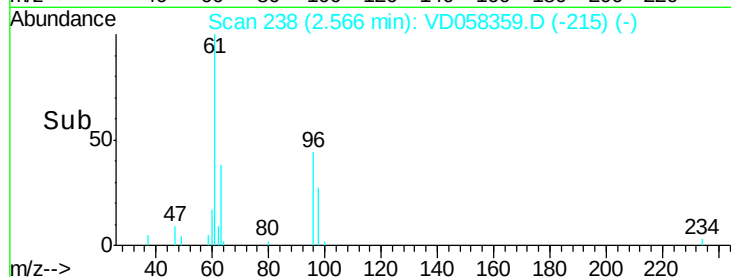
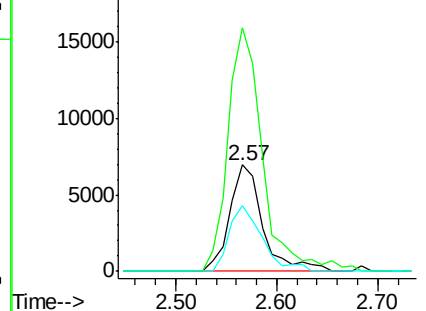
98 61.2 51.7 77.5



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#13

Acrolein

Concen: 1.36 ug/l

RT: 2.36 min Scan# 217

Delta R.T. -0.11 min

Lab File: VD058359.D

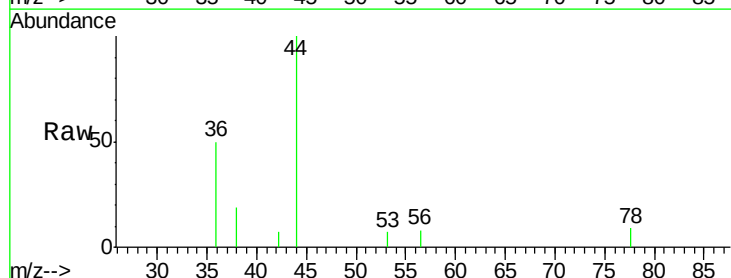
Acq: 23 Jun 2018 23:49

Tgt Ion: 56 Resp: 200

Ion Ratio Lower Upper

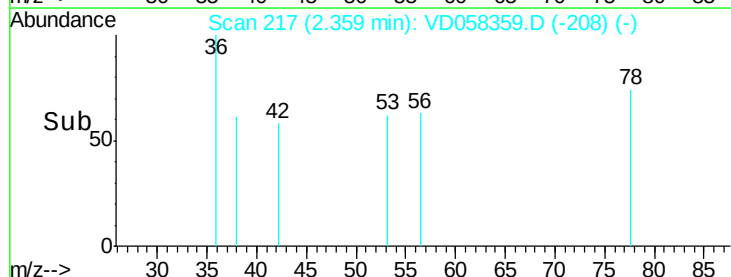
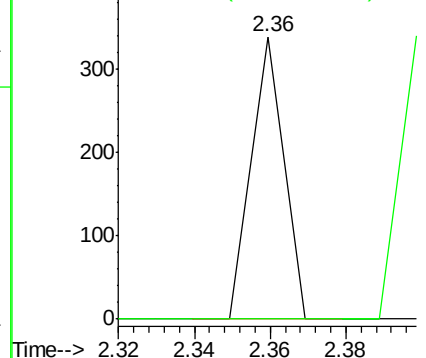
56 100

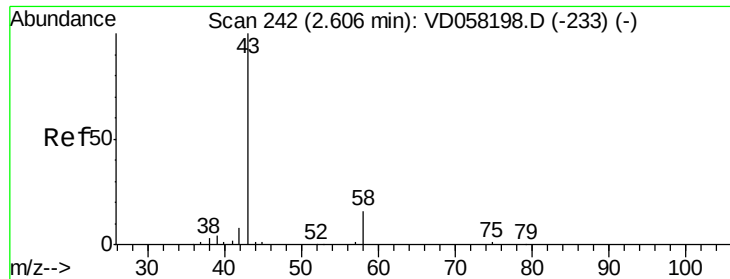
55 0.0 62.1 93.1#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 23.43 ug/l

RT: 2.63 min Scan# 245

Delta R.T. 0.03 min

Lab File: VD058359.D

Acq: 23 Jun 2018 23:49

Instrument :

MSVOA_D

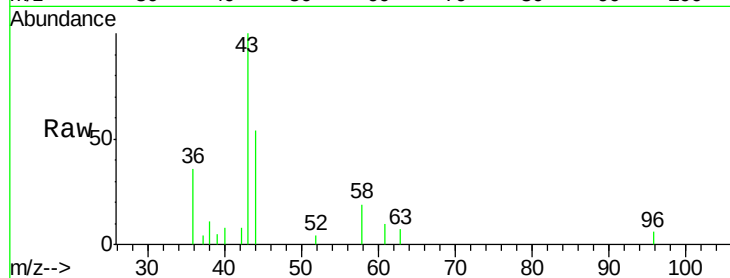
ClientSampleId :

Tot Ion: 43 Resp: 25087

Ion Ratio Lower Upper

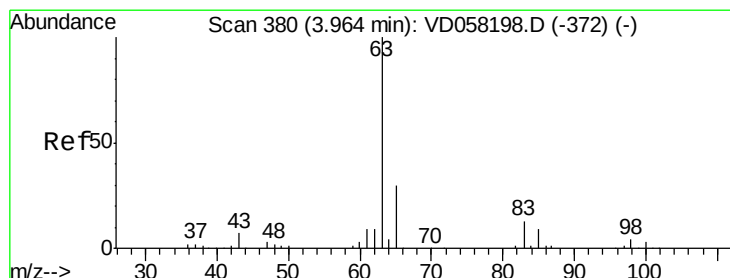
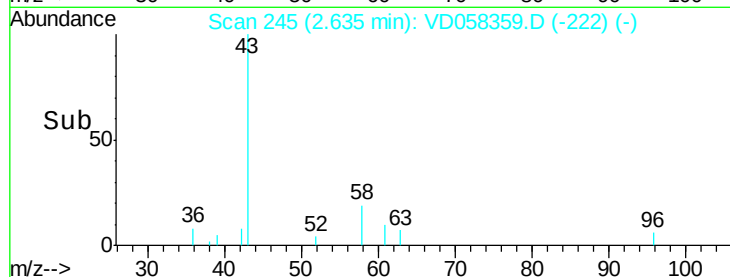
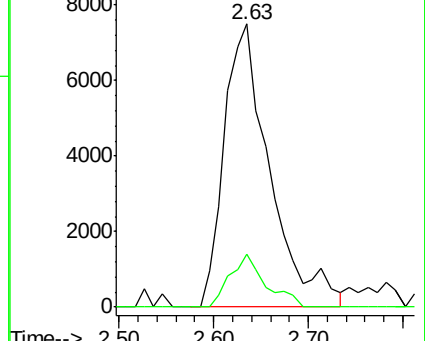
43 100

58 18.9 12.7 19.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#24

1,1-Dichloroethane

Concen: 1.14 ug/l

RT: 4.00 min Scan# 384

Delta R.T. 0.04 min

Lab File: VD058359.D

Acq: 23 Jun 2018 23:49

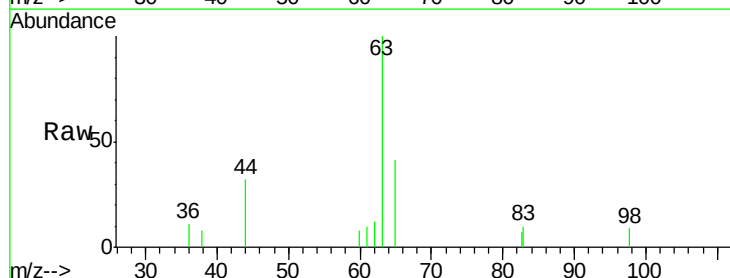
Tgt Ion: 63 Resp: 15161

Ion Ratio Lower Upper

63 100

98 9.0 1.9 5.7#

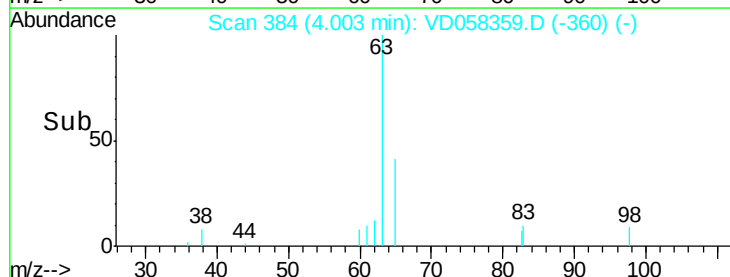
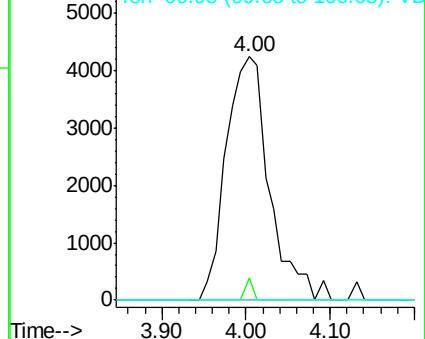
100 0.0 1.3 3.9#

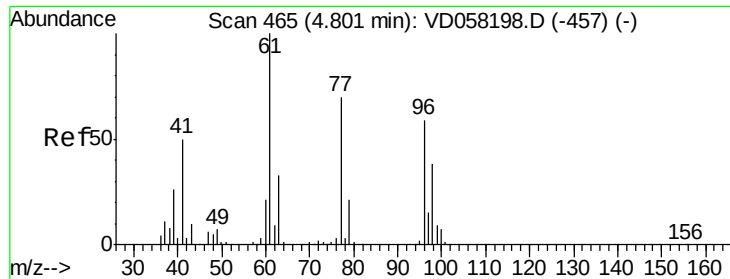


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC

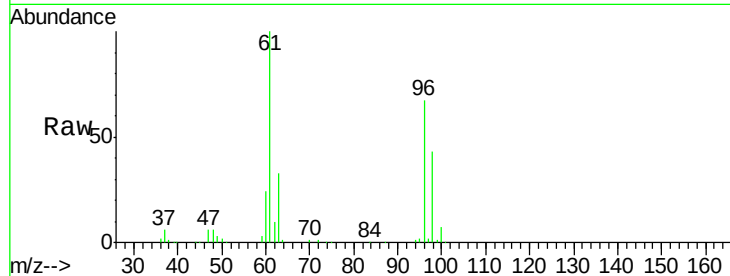




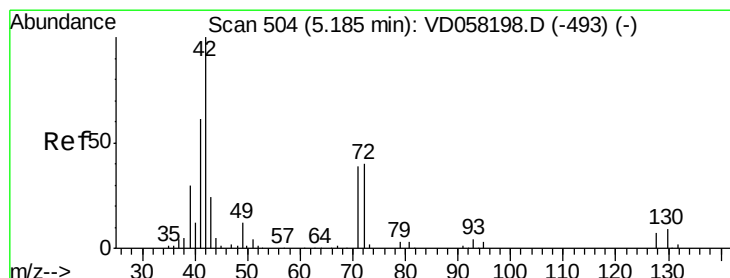
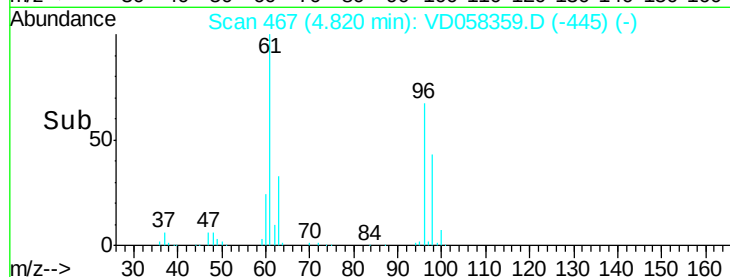
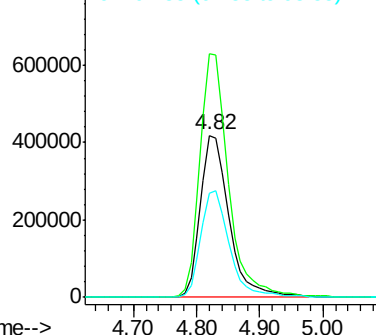
#27
 cis-1,2-Dichloroethene
 Concen: 181.95 ug/l
 RT: 4.82 min Scan# 467
 Delta R.T. 0.02 min
 Lab File: VD058359.D
 Acq: 23 Jun 2018 23:49

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion: 96 Resp: 1323562
 Ion Ratio Lower Upper
 96 100
 61 150.3 0.0 338.6
 98 64.6 0.0 130.2

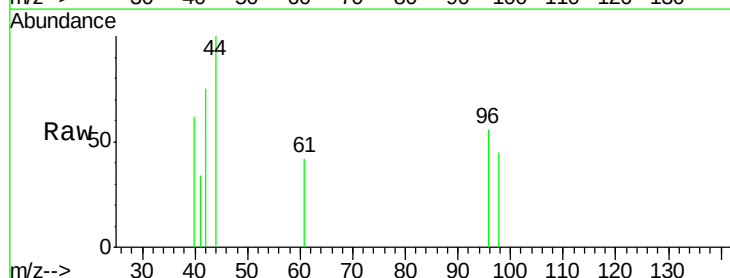


Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC

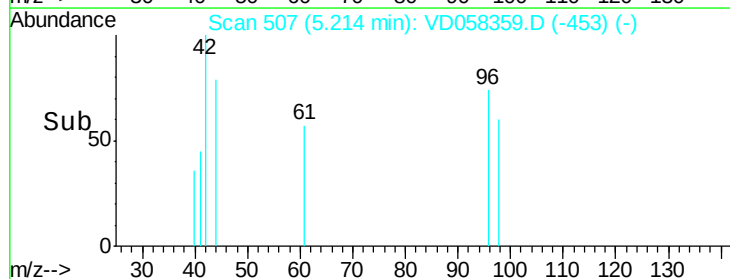
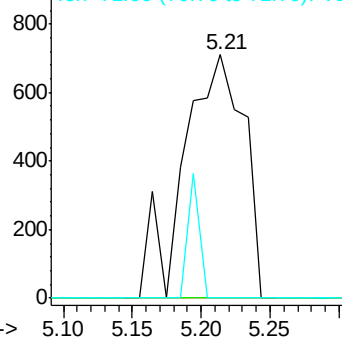


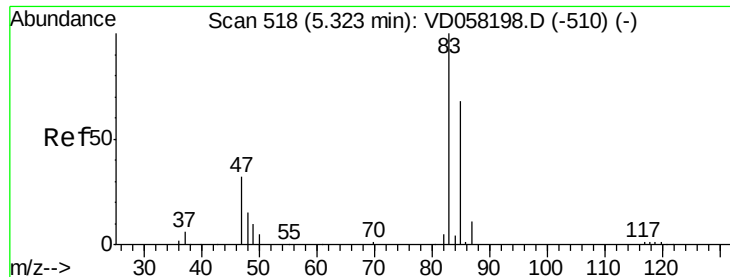
#29
 Tetrahydrofuran
 Concen: 1.73 ug/l
 RT: 5.21 min Scan# 507
 Delta R.T. 0.03 min
 Lab File: VD058359.D
 Acq: 23 Jun 2018 23:49

Tgt Ion: 42 Resp: 2152
 Ion Ratio Lower Upper
 42 100
 72 0.0 30.2 45.2#
 71 10.0 30.1 45.1#



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

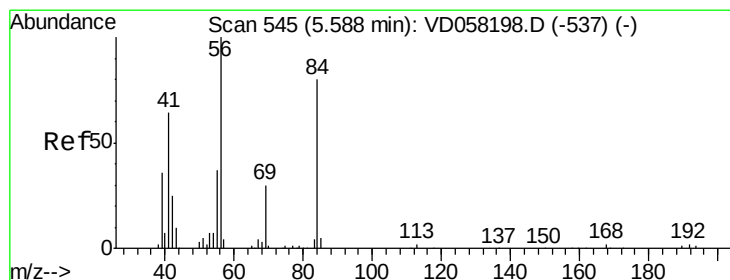
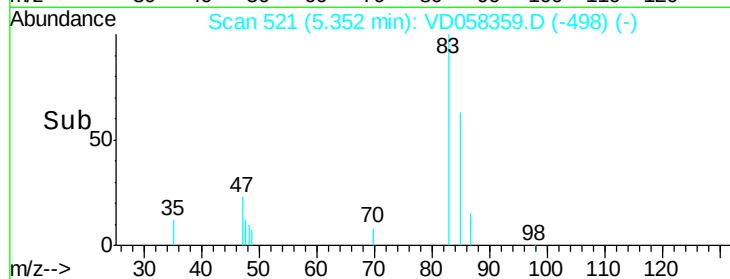
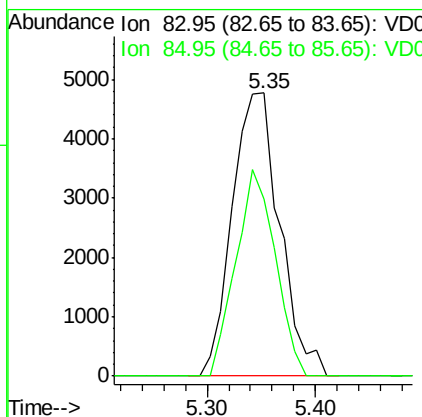
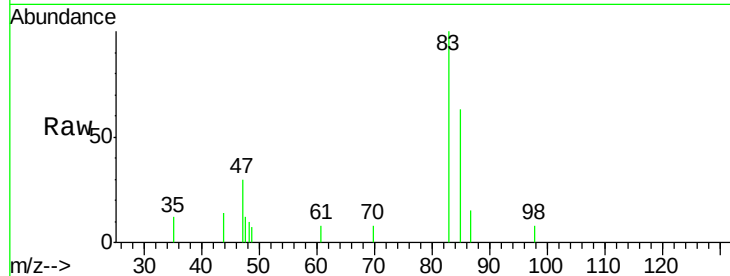




#30
Chloroform
Concen: 1.04 ua/l
RT: 5.35 min Scan# 521
Delta R.T. 0.03 min
Lab File: VD058359.D
Acq: 23 Jun 2018 23:49

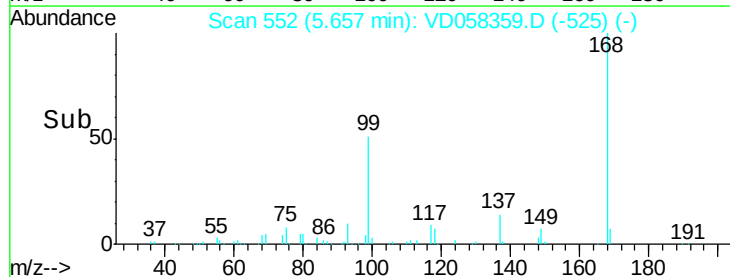
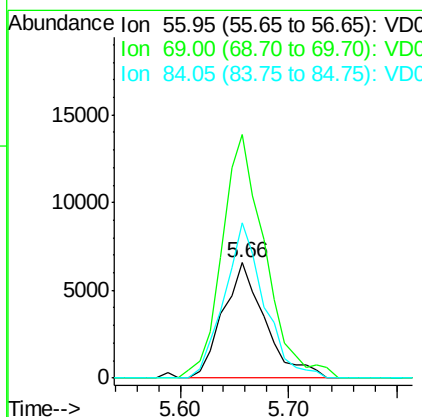
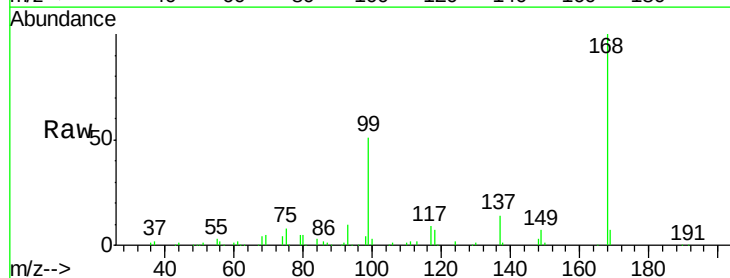
Instrument :
MSVOA_D
ClientSampleId :

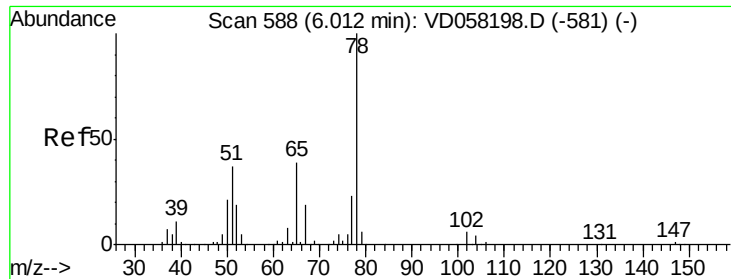
Tot Ion: 83 Resp: 14618
Ion Ratio Lower Upper
83 100
85 62.7 54.8 82.2



#31
Cyclohexane
Concen: Below Cal
RT: 5.66 min Scan# 552
Delta R.T. 0.07 min
Lab File: VD058359.D
Acq: 23 Jun 2018 23:49

Tgt Ion: 56 Resp: 17846
Ion Ratio Lower Upper
56 100
69 210.9 23.6 35.4#
84 135.1 65.2 97.8#

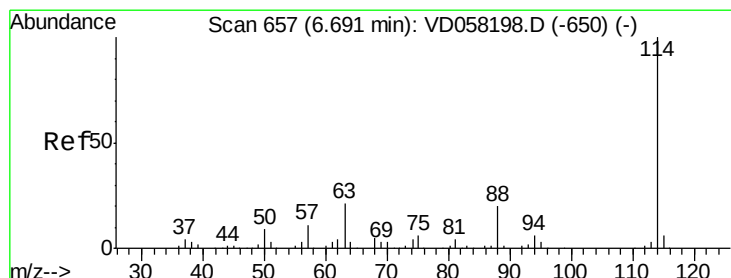
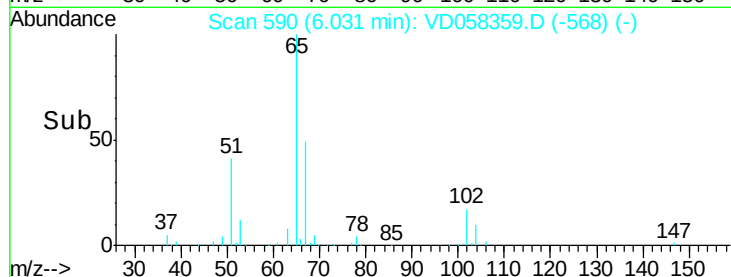
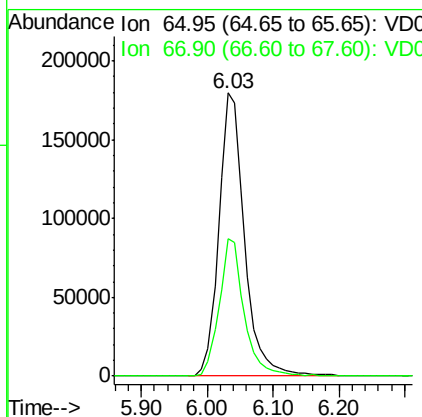
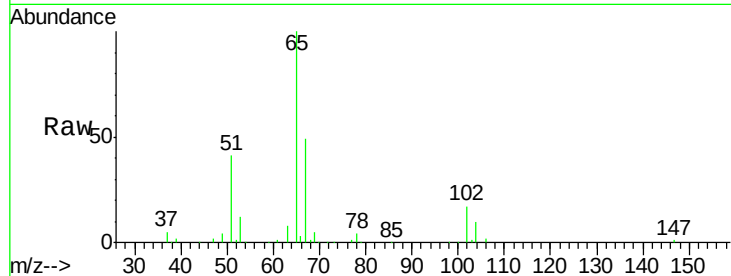




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 6.03 min Scan# 590
 Delta R.T. 0.02 min
 Lab File: VD058359.D
 Acq: 23 Jun 2018 23:49

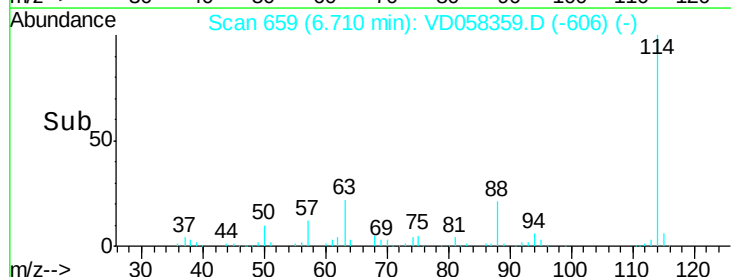
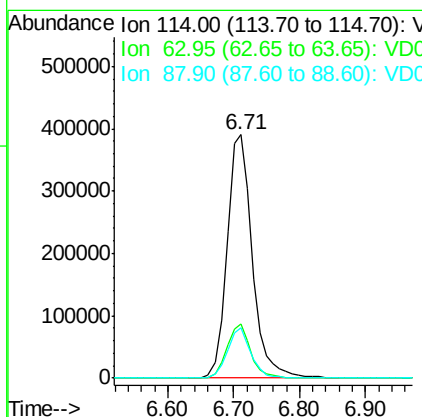
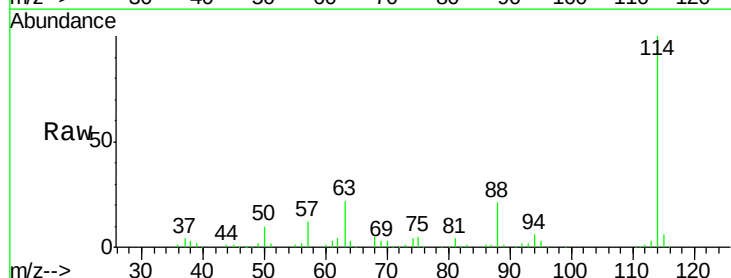
Instrument :
 MSVOA_D
 ClientSampleId :

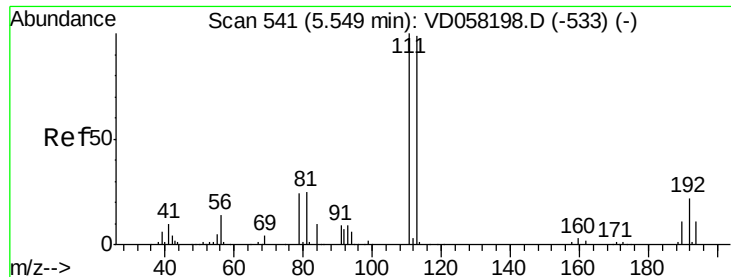
Tot Ion: 65 Resp: 487160
 Ion Ratio Lower Upper
 65 100
 67 48.8 0.0 97.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.71 min Scan# 659
 Delta R.T. 0.02 min
 Lab File: VD058359.D
 Acq: 23 Jun 2018 23:49

Tgt Ion: 114 Resp: 1046329
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 42.6
 88 20.7 0.0 40.6

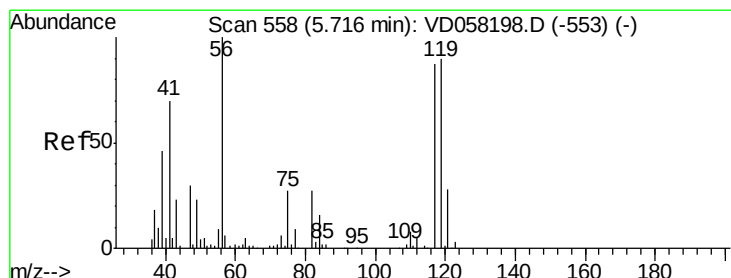
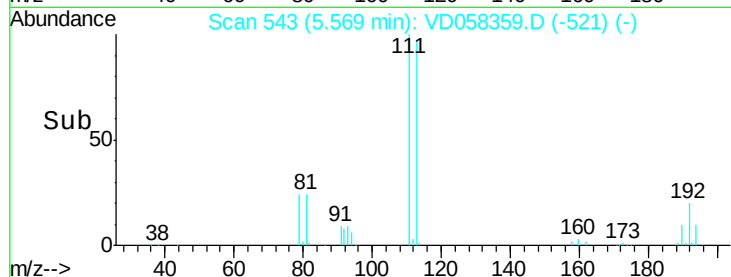
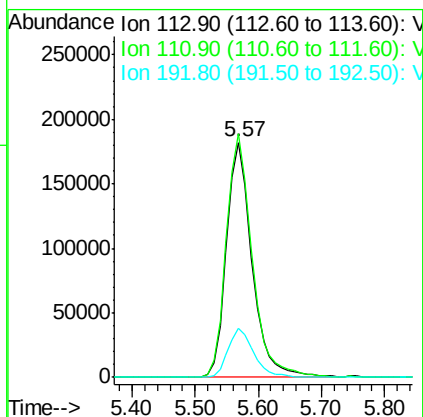
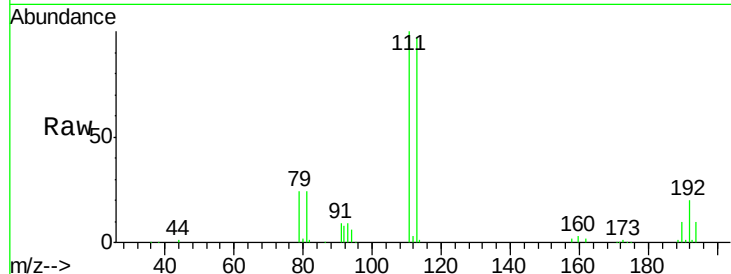




#35
Dibromofluoromethane
Concen: 50.00 ug/l
RT: 5.57 min Scan# 543
Delta R.T. 0.02 min
Lab File: VD058359.D
Acq: 23 Jun 2018 23:49

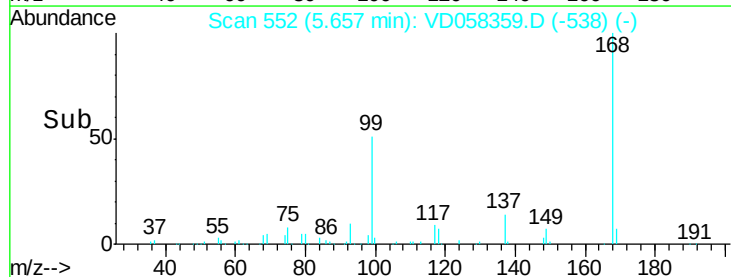
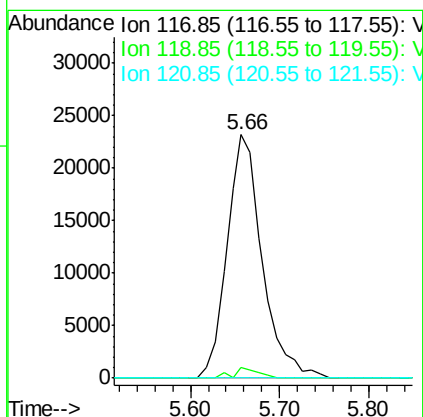
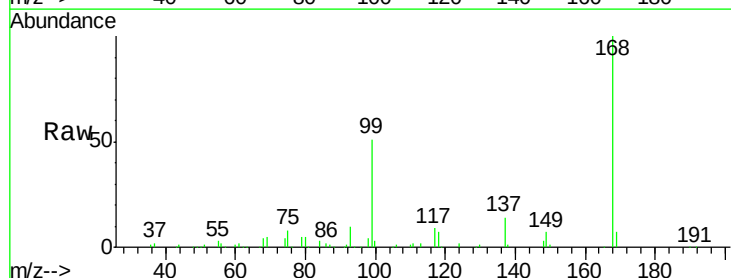
Instrument :
MSVOA_D
ClientSampleId :

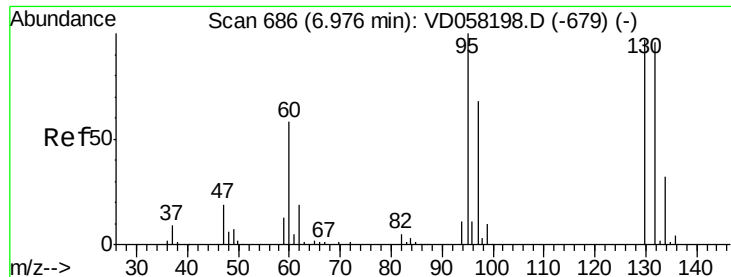
Tot Ion:113 Resp: 511682
Ion Ratio Lower Upper
113 100
111 103.5 80.6 121.0
192 21.1 17.8 26.6



#38
Carbon Tetrachloride
Concen: 6.20 ug/l
RT: 5.66 min Scan# 552
Delta R.T. -0.06 min
Lab File: VD058359.D
Acq: 23 Jun 2018 23:49

Tgt Ion:117 Resp: 63778
Ion Ratio Lower Upper
117 100
119 4.4 78.8 118.2#
121 0.0 25.0 37.6#





#44

Trichloroethene

Concen: 294.74 ug/l

RT: 7.00 min Scan# 688

Delta R.T. 0.02 min

Lab File: VD058359.D

Acq: 23 Jun 2018 23:49

Instrument :

MSVOA_D

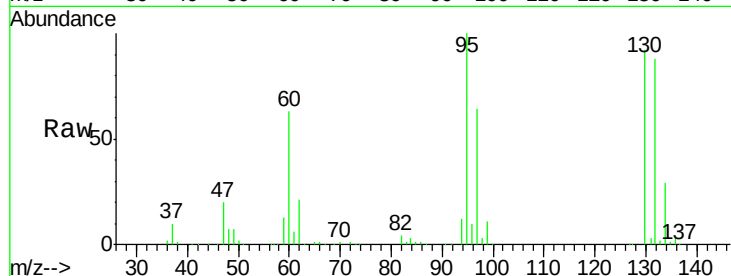
ClientSampled :

Tot Ion:130 Resp: 2182229

Ion Ratio Lower Upper

130 100

95 109.1 0.0 205.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC

7.00

800000

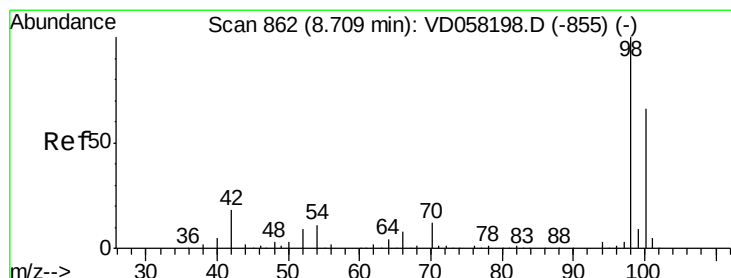
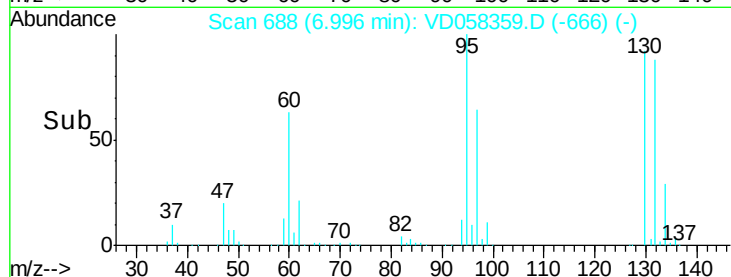
600000

400000

200000

0

Time-->



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.72 min Scan# 863

Delta R.T. 0.01 min

Lab File: VD058359.D

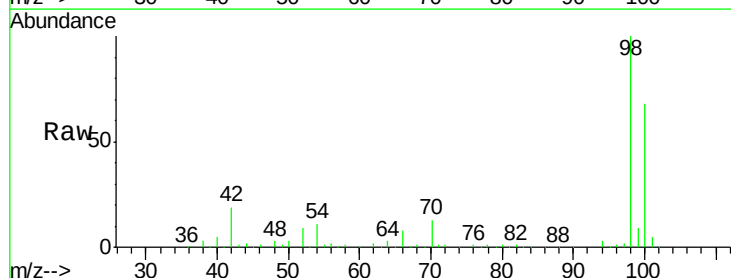
Acq: 23 Jun 2018 23:49

Tgt Ion: 98 Resp: 1175585

Ion Ratio Lower Upper

98 100

100 68.5 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

8.72

600000

500000

400000

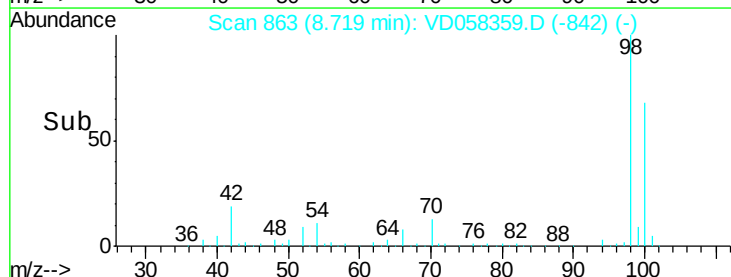
300000

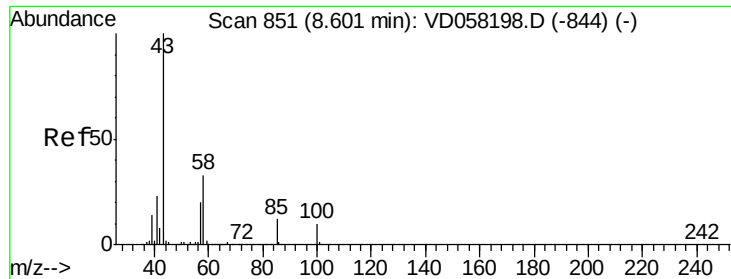
200000

100000

0

Time-->





#51

4-Methyl-2-Pentanone

Concen: 1.60 ug/l

RT: 8.72 min Scan# 863

Delta R.T. 0.12 min

Lab File: VD058359.D

Acq: 23 Jun 2018 23:49

Instrument :

MSVOA_D

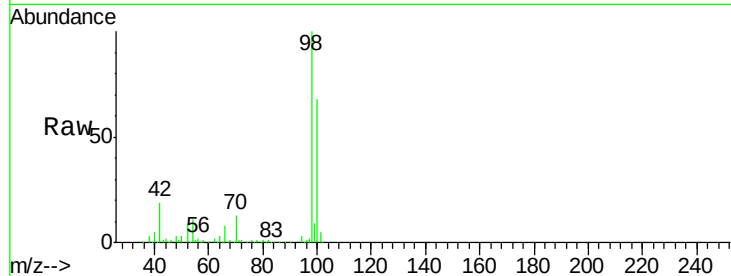
ClientSampleId :

Tot Ion: 43 Resp: 8210

Ion Ratio Lower Upper

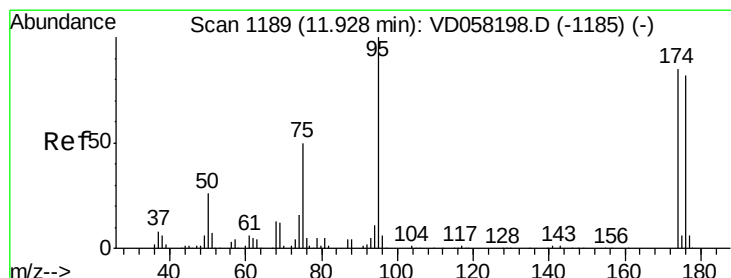
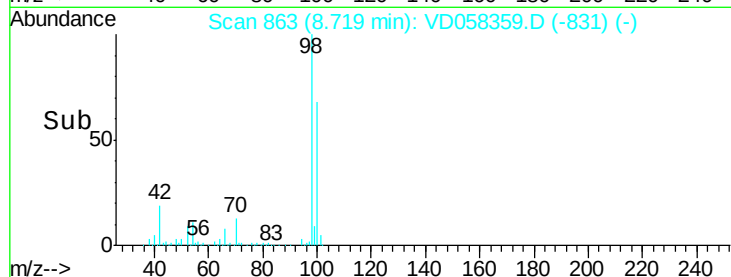
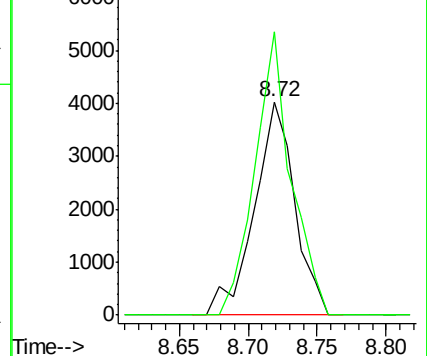
43 100

58 132.7 26.7 40.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058359.D

Acq: 23 Jun 2018 23:49

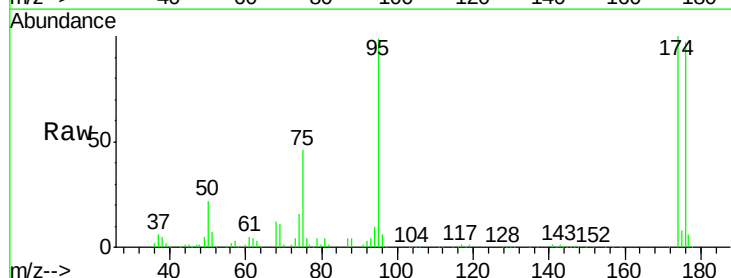
Tgt Ion: 95 Resp: 525396

Ion Ratio Lower Upper

95 100

174 101.0 0.0 170.2

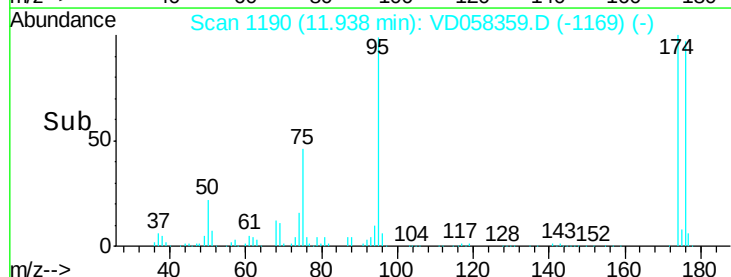
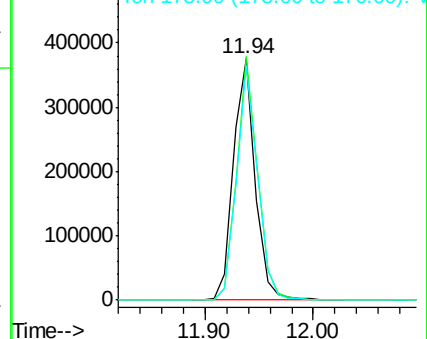
176 97.5 0.0 164.6

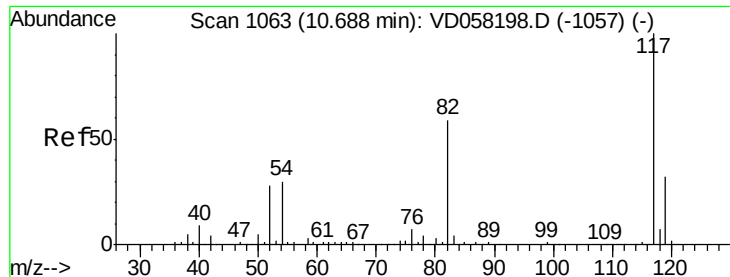


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

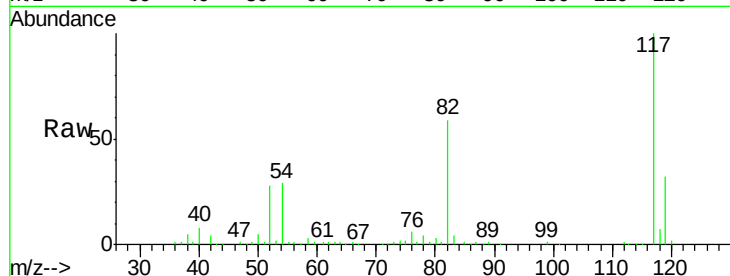




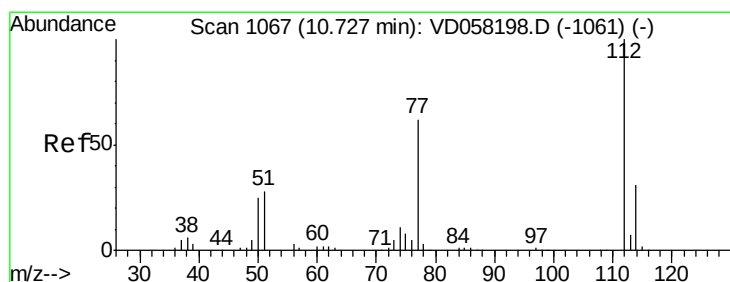
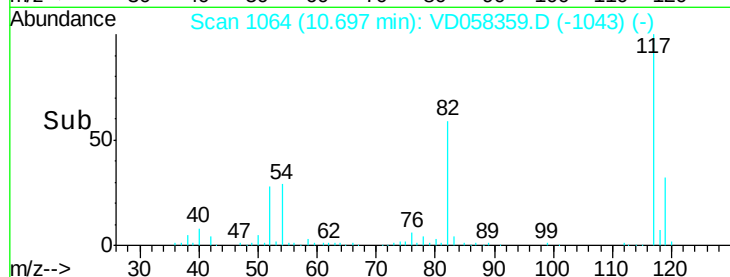
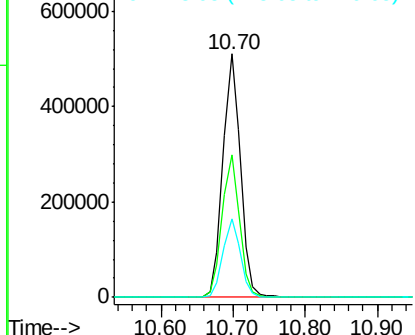
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058359.D
Acq: 23 Jun 2018 23:49

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 862280
Ion Ratio Lower Upper
117 100
82 58.7 47.0 70.6
119 32.4 25.3 37.9

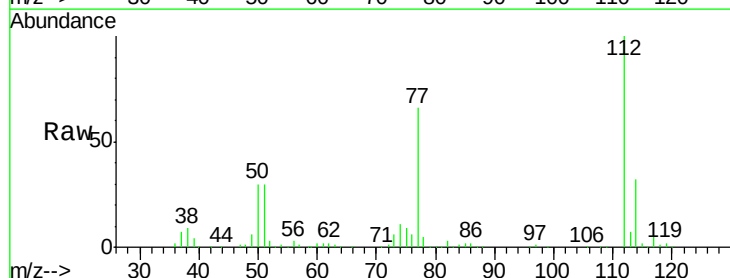


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

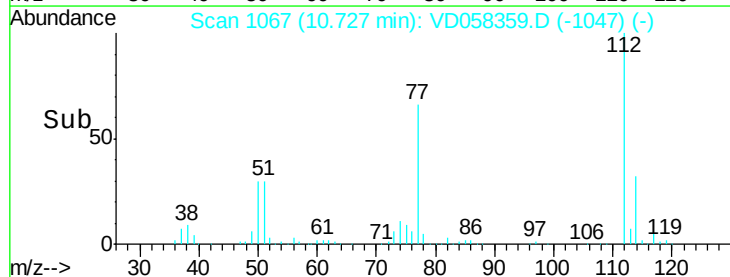
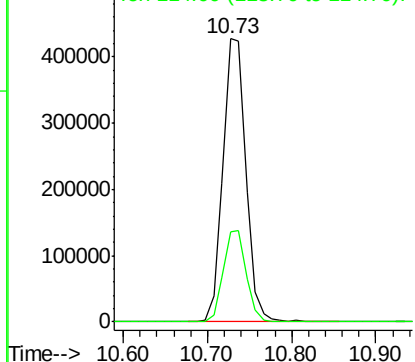


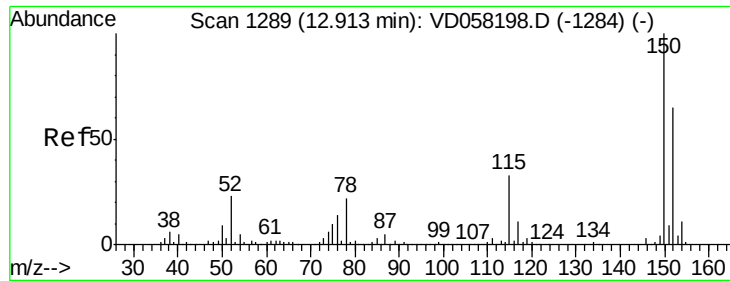
#65
Chlorobenzene
Concen: 50.38 ug/l
RT: 10.73 min Scan# 1067
Delta R.T. -0.00 min
Lab File: VD058359.D
Acq: 23 Jun 2018 23:49

Tgt Ion:112 Resp: 812617
Ion Ratio Lower Upper
112 100
114 32.0 25.0 37.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 114.00 (113.70 to 114.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.91 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VD058359.D

Acq: 23 Jun 2018 23:49

Instrument :

MSVOA_D

ClientSampleId :

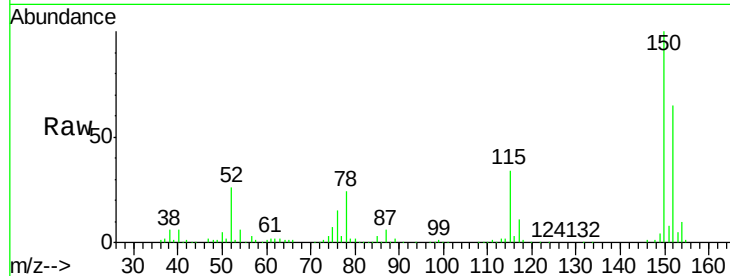
Tot Ion:152 Resp: 444792

Ion Ratio Lower Upper

152 100

115 52.2 25.1 75.3

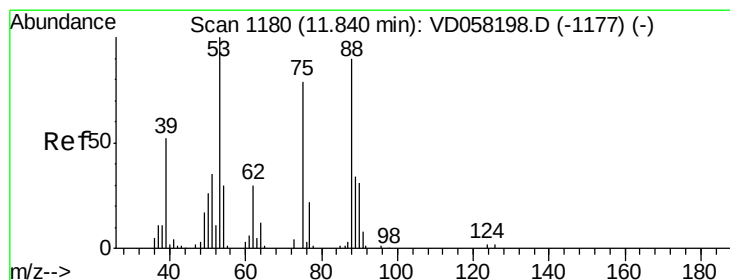
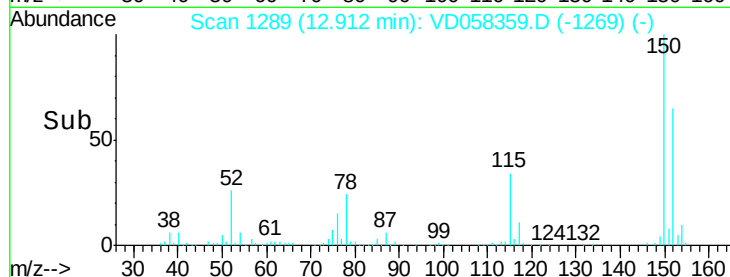
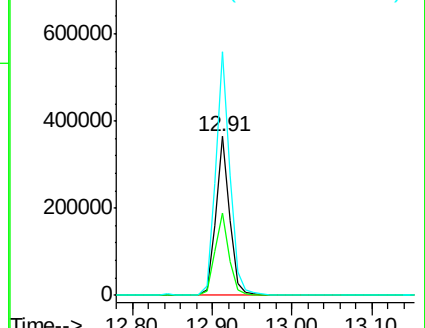
150 153.5 0.0 308.8



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: 154.86 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.10 min

Lab File: VD058359.D

Acq: 23 Jun 2018 23:49

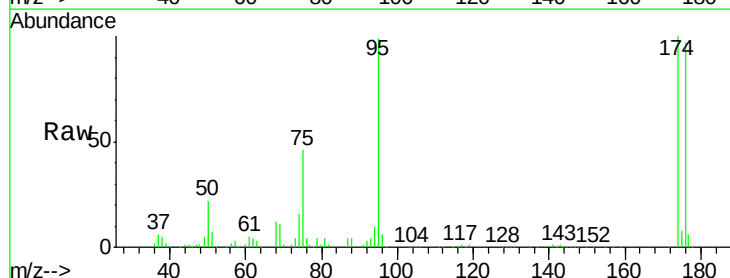
Tgt Ion: 75 Resp: 245270

Ion Ratio Lower Upper

75 100

53 0.0 100.8 151.2#

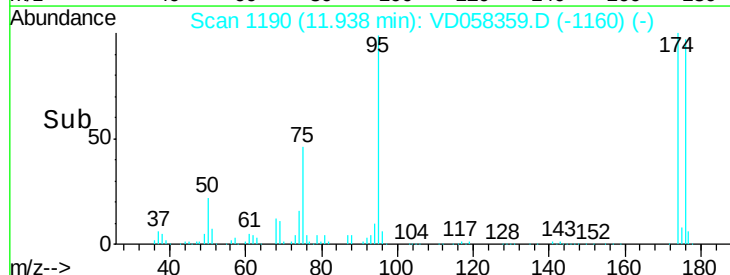
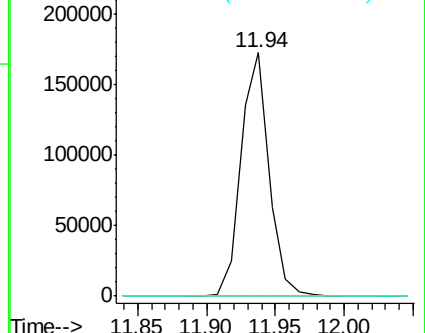
89 0.0 34.6 52.0#

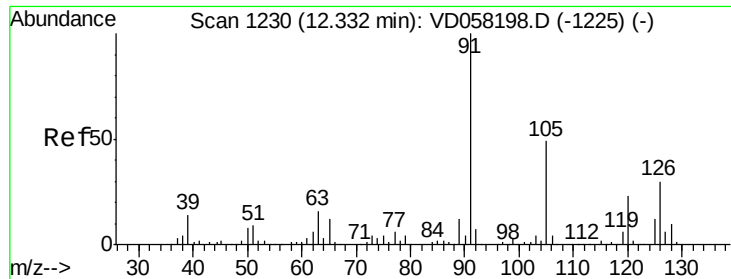


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

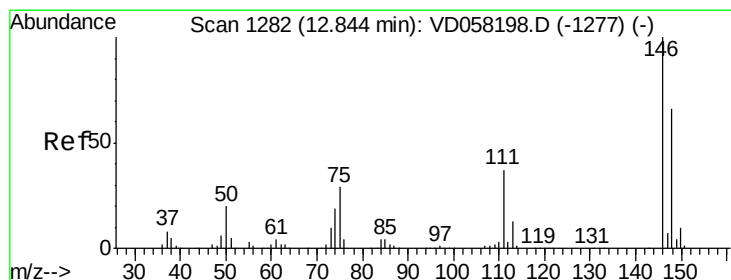
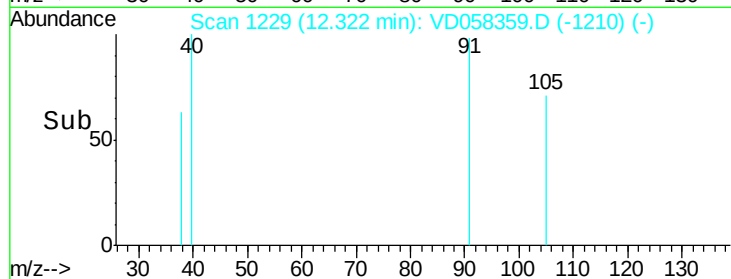
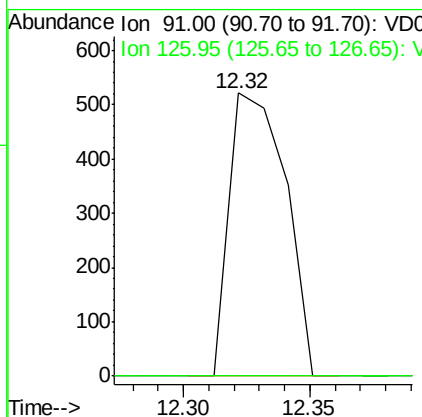
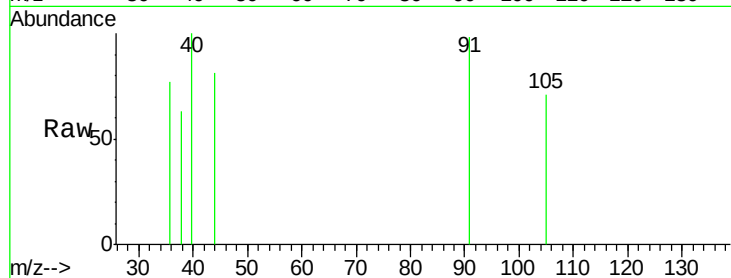




#82
 4-Chlorotoluene
 Concen: Below Cal
 RT: 12.32 min Scan# 1229
 Delta R.T. -0.01 min
 Lab File: VD058359.D
 Acq: 23 Jun 2018 23:49

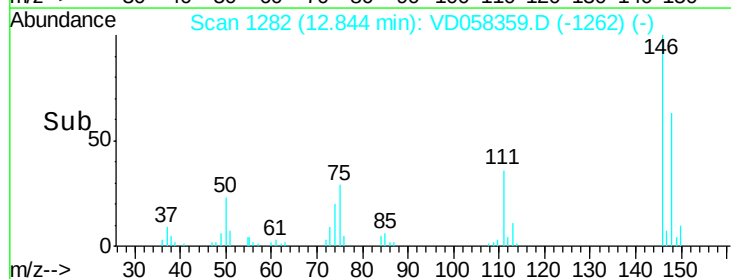
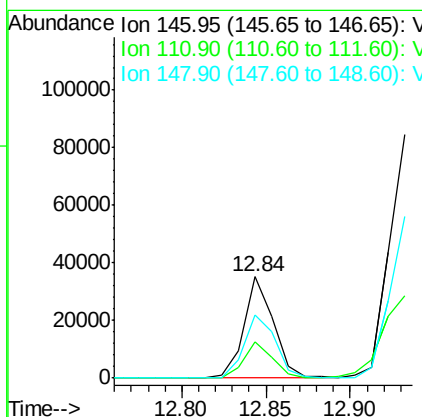
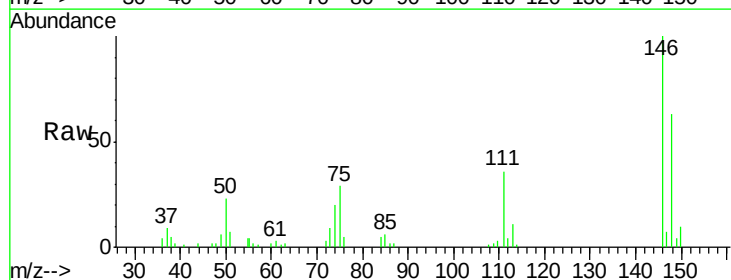
Instrument :
 MSVOA_D
 ClientSampleId :

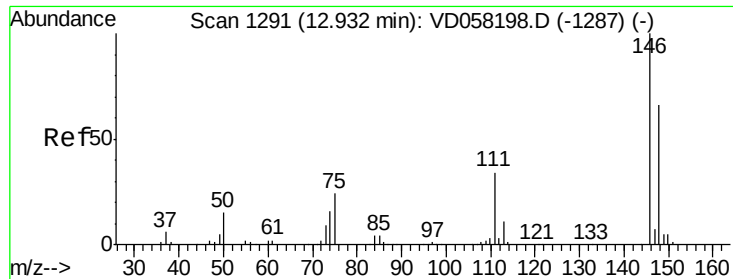
Tot Ion: 91 Resp: 808
 Ion Ratio Lower Upper
 91 100
 126 0.0 14.9 44.9#



#87
 1,3-Dichlorobenzene
 Concen: 3.09 ug/l
 RT: 12.84 min Scan# 1282
 Delta R.T. -0.00 min
 Lab File: VD058359.D
 Acq: 23 Jun 2018 23:49

Tgt Ion: 146 Resp: 42771
 Ion Ratio Lower Upper
 146 100
 111 35.8 18.4 55.0
 148 62.9 32.8 98.4





#88

1,4-Dichlorobenzene

Concen: 7.81 ug/l

RT: 12.93 min Scan# 1291

Delta R.T. -0.00 min

Lab File: VD058359.D

Acq: 23 Jun 2018 23:49

Instrument :

MSVOA_D

ClientSampled :

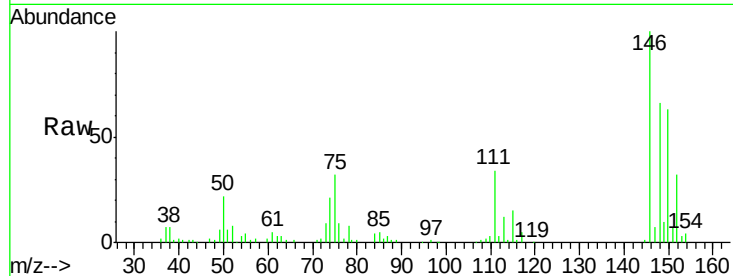
Tot Ion:146 Resp: 105671

Ion Ratio Lower Upper

146 100

111 33.8 17.2 51.5

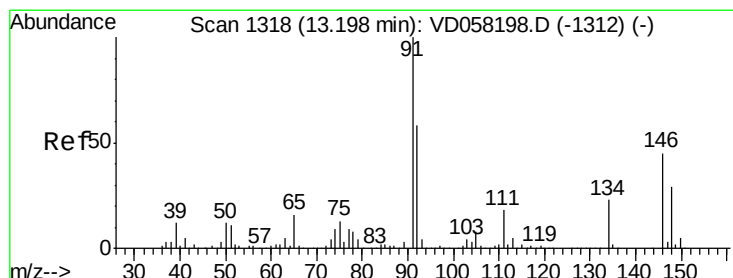
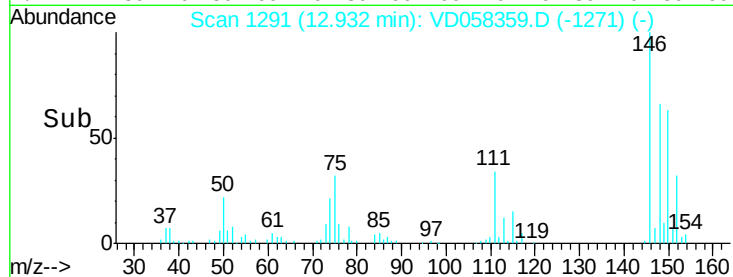
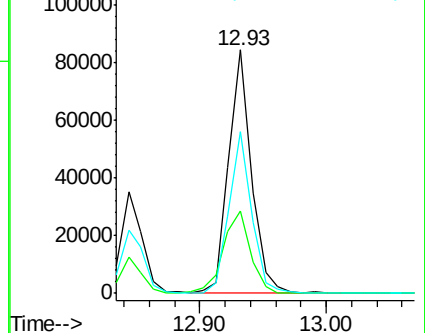
148 66.5 33.1 99.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 10.27 ug/l

RT: 13.20 min Scan# 1318

Delta R.T. -0.00 min

Lab File: VD058359.D

Acq: 23 Jun 2018 23:49

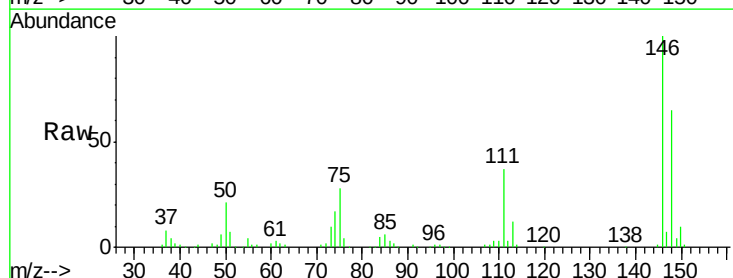
Tgt Ion:146 Resp: 121078

Ion Ratio Lower Upper

146 100

111 36.7 19.6 58.7

148 64.8 32.0 96.2



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

