

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062318\
 Data File : VD058340.D
 Acq On : 23 Jun 2018 14:45
 Operator : VA/AP
 Sample : VD0623SBL01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 25 01:06:30 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	5.67	168	998294	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	6.71	114	1275366	50.00	ug/l	0.02
63) Chlorobenzene-d5	10.70	117	1011404	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	531061	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	560230	55.56	ug/l	0.03
Spiked Amount 50.000			Recovery	=	111.12%	
35) Dibromofluoromethane	5.57	113	574533	55.35	ug/l	0.02
Spiked Amount 50.000			Recovery	=	110.70%	
50) Toluene-d8	8.72	98	1294891	51.56	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.12%	
62) 4-Bromofluorobenzene	11.94	95	547849	53.40	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.80%	

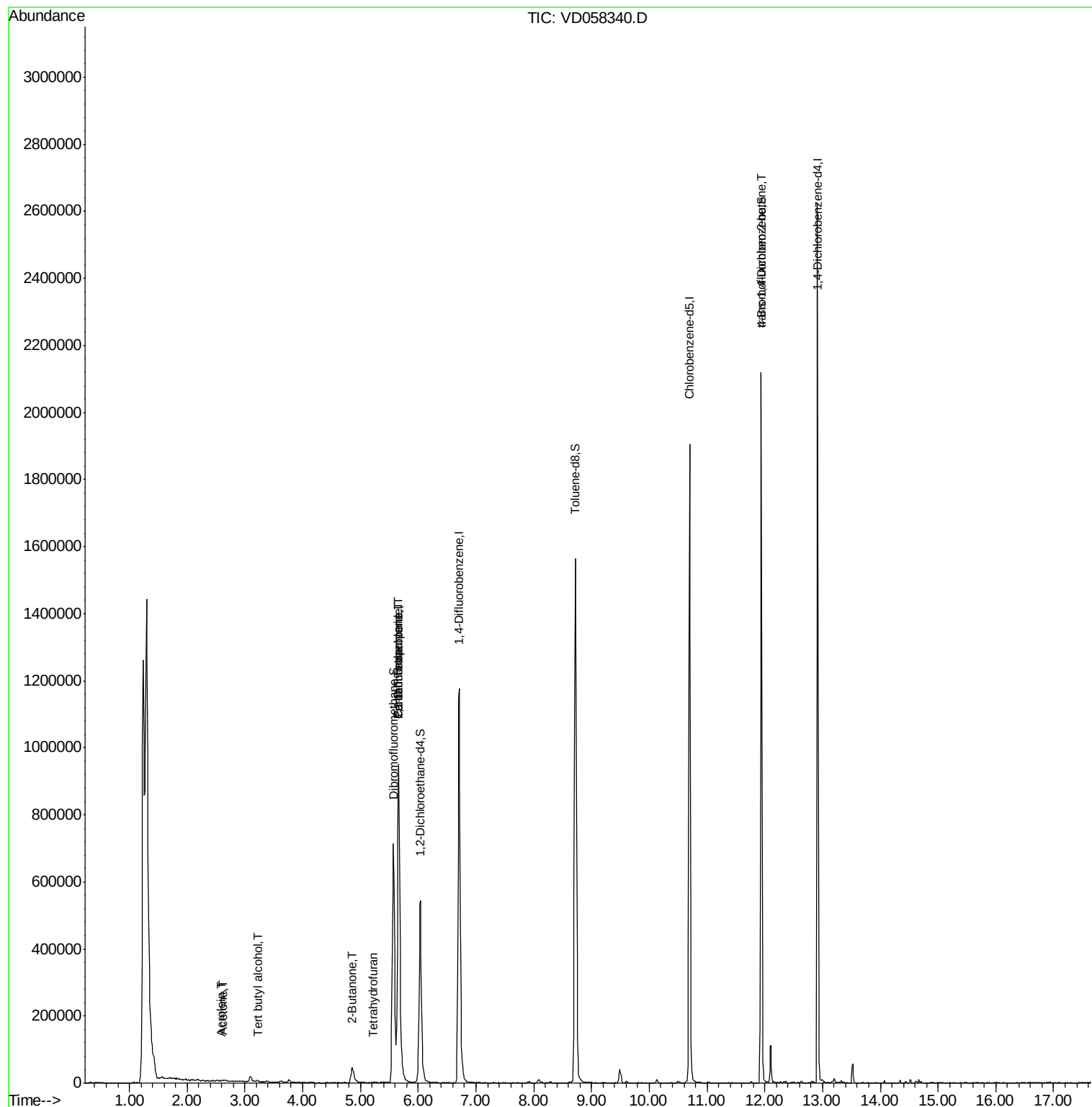
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.37	85	894	Below Cal		77
3) Chloromethane	1.52	50	177	Below Cal	#	43
5) Bromomethane	1.86	94	450	Below Cal		87
11) Tert butyl alcohol	3.24	59	3899	11.72	ug/l #	78
13) Acrolein	2.59	56	255	1.34	ug/l #	11
16) Acetone	2.63	43	11783	8.54	ug/l	96
20) Methylene Chloride	3.10	84	6816	Below Cal		88
25) 2-Butanone	4.86	43	6010	2.00	ug/l #	60
29) Tetrahydrofuran	5.22	42	2164	1.35	ug/l #	53
31) Cyclohexane	5.66	56	24040	Below Cal	#	1
36) 1,1-Dichloropropene	5.67	75	84598	6.71	ug/l #	51
38) Carbon Tetrachloride	5.66	117	82640	6.59	ug/l #	15
81) trans-1,4-Dichloro-2-buten	11.94	75	267269	141.33	ug/l #	1
82) 4-Chlorotoluene	12.33	91	2632	Below Cal		77

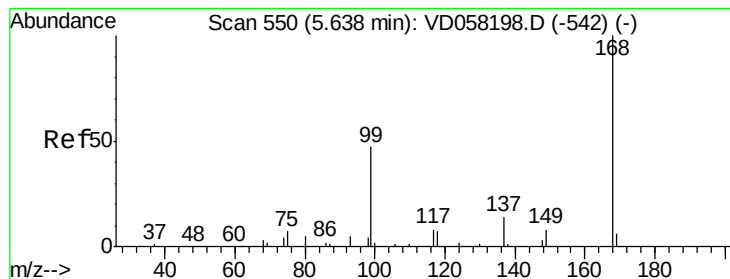
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 553

Delta R.T. 0.03 min

Lab File: VD058340.D

Acq: 23 Jun 2018 14:45

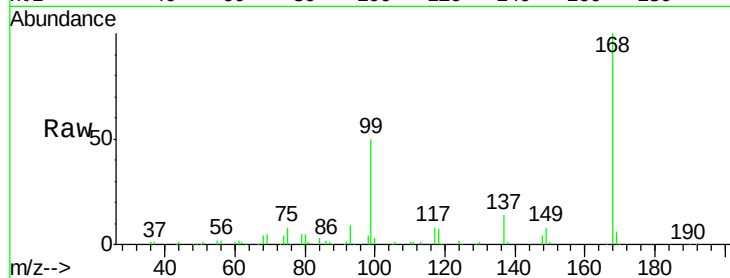
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 998294

Ion Ratio Lower Upper

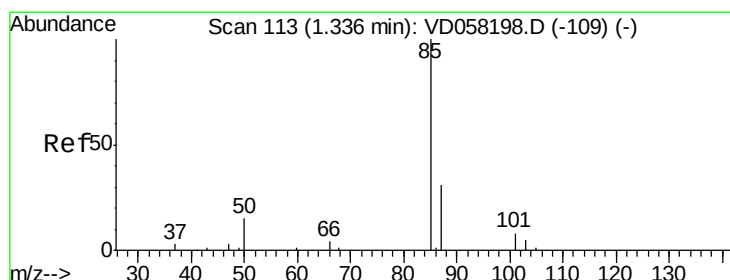
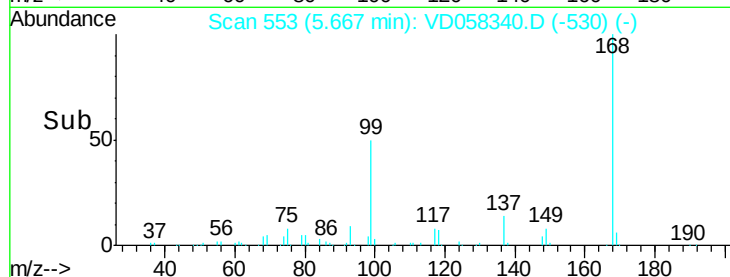
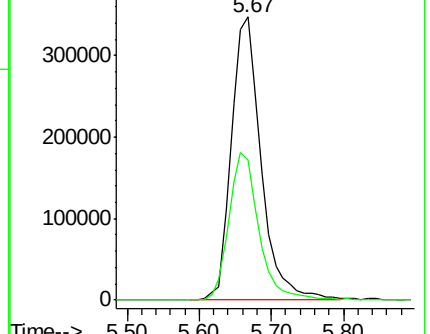
168 100

99 49.6 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: VD058340.D

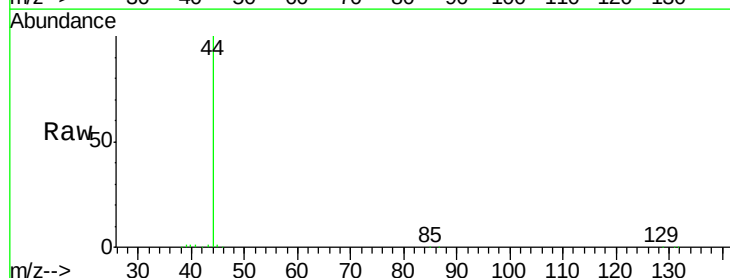
Acq: 23 Jun 2018 14:45

Tgt Ion: 85 Resp: 894

Ion Ratio Lower Upper

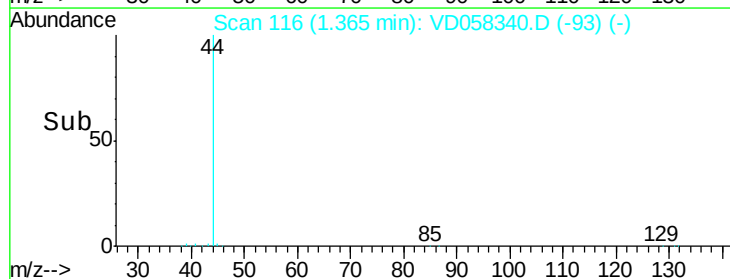
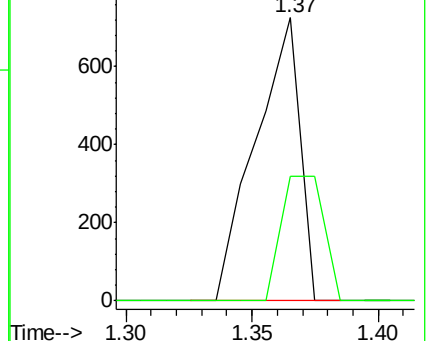
85 100

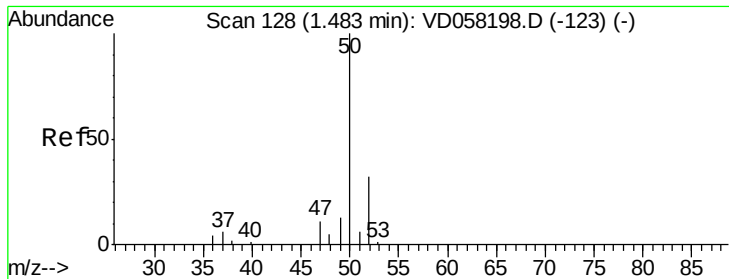
87 44.1 15.7 47.0



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: 1.52 min Scan# 132

Delta R.T. 0.04 min

Lab File: VD058340.D

Acq: 23 Jun 2018 14:45

Instrument :

MSVOA_D

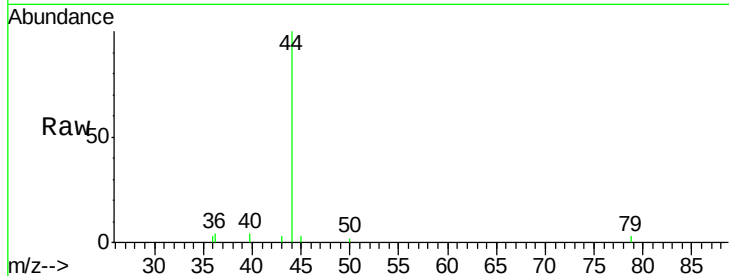
ClientSampleId :

Tot Ion: 50 Resp: 177

Ion Ratio Lower Upper

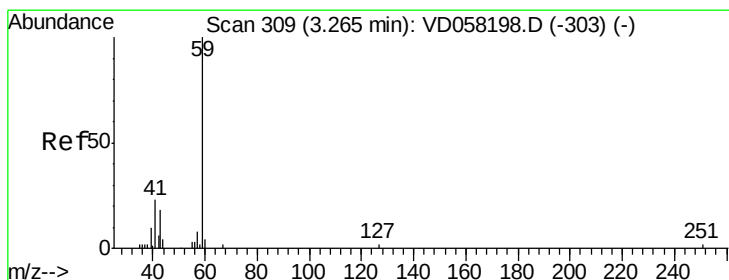
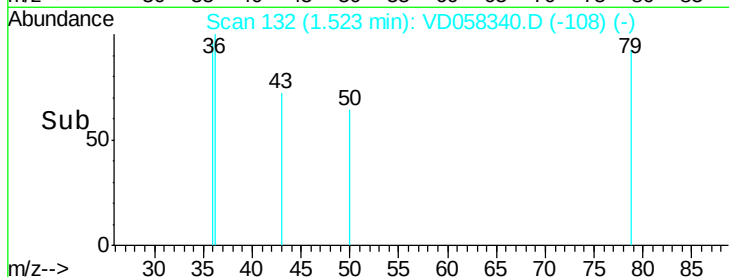
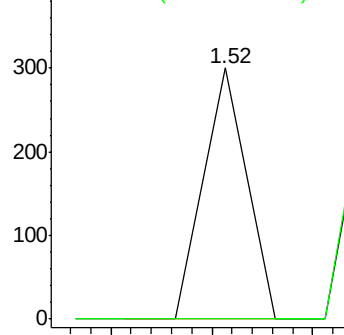
50 100

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



#11

Tert butyl alcohol

Concen: 11.72 ug/l

RT: 3.24 min Scan# 306

Delta R.T. -0.03 min

Lab File: VD058340.D

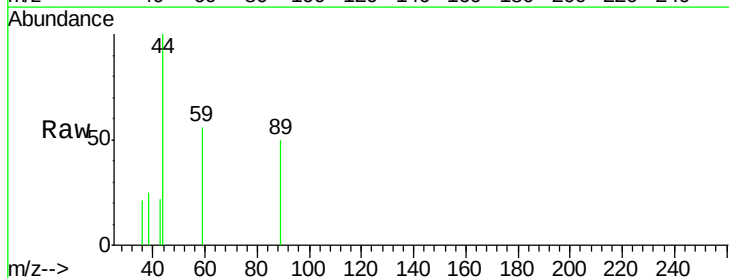
Acq: 23 Jun 2018 14:45

Tgt Ion: 59 Resp: 3899

Ion Ratio Lower Upper

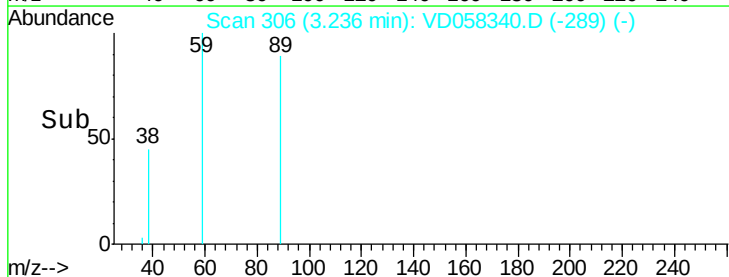
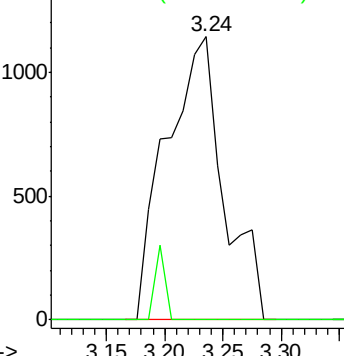
59 100

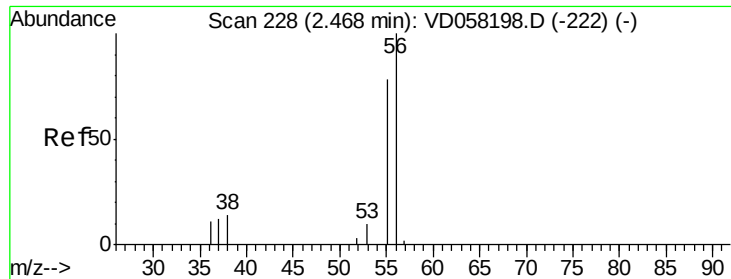
57 0.0 6.2 9.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 1.34 ug/l

RT: 2.59 min Scan# 240

Delta R.T. 0.12 min

Lab File: VD058340.D

Acq: 23 Jun 2018 14:45

Instrument :

MSVOA_D

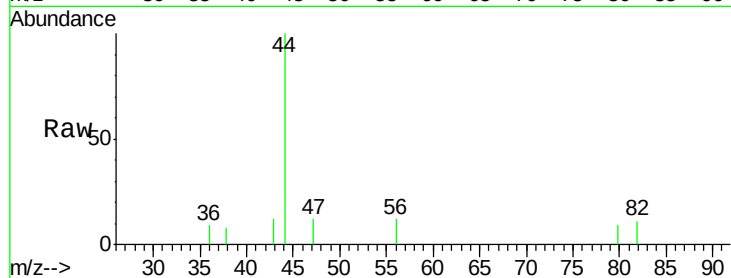
ClientSampleId :

Tot Ion: 56 Resp: 255

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

2.59

400

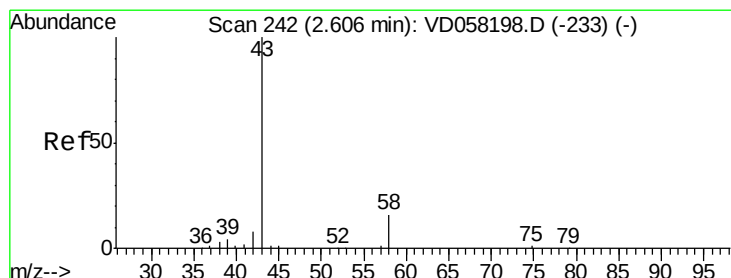
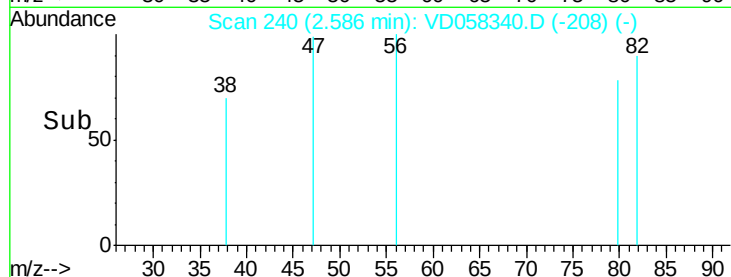
300

200

100

0

Time-->



#16

Acetone

Concen: 8.54 ug/l

RT: 2.63 min Scan# 244

Delta R.T. 0.02 min

Lab File: VD058340.D

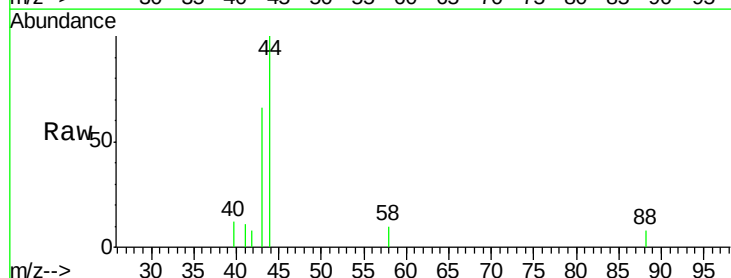
Acq: 23 Jun 2018 14:45

Tgt Ion: 43 Resp: 11783

Ion Ratio Lower Upper

43 100

58 14.4 12.7 19.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

2.63

3000

2500

2000

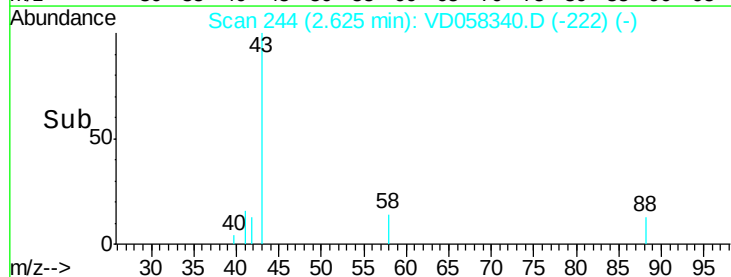
1500

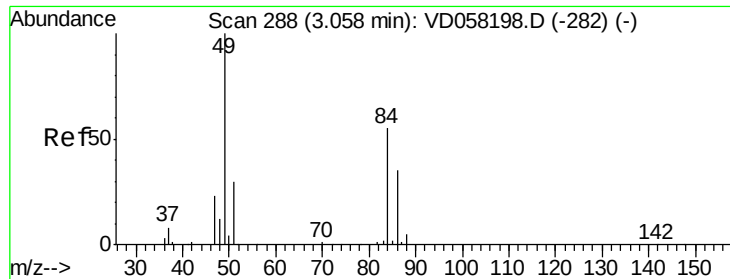
1000

500

0

Time-->

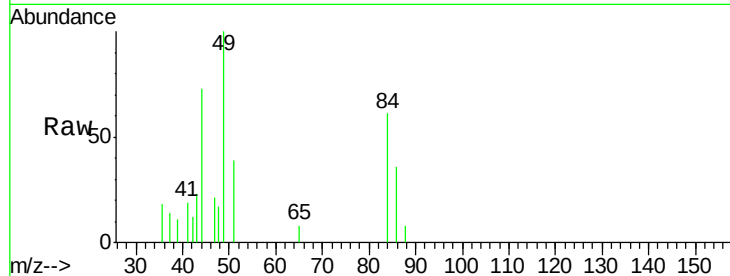




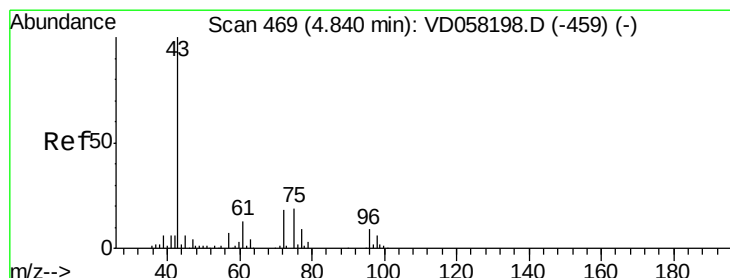
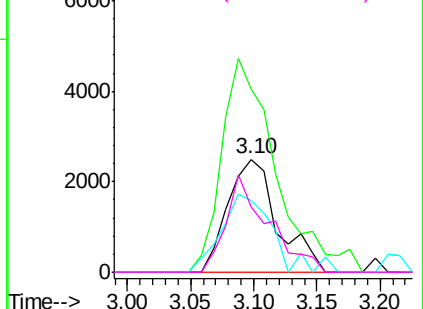
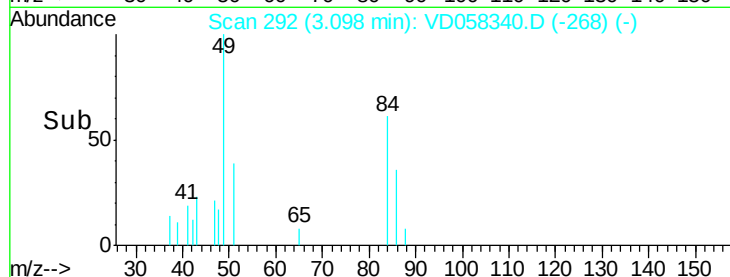
#20
Methylene Chloride
Concen: Below Cal
RT: 3.10 min Scan# 292
Delta R.T. 0.04 min
Lab File: VD058340.D
Acq: 23 Jun 2018 14:45

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 6816
Ion Ratio Lower Upper
84 100
49 162.9 145.0 217.6
51 64.1 42.9 64.3
86 57.9 50.1 75.1

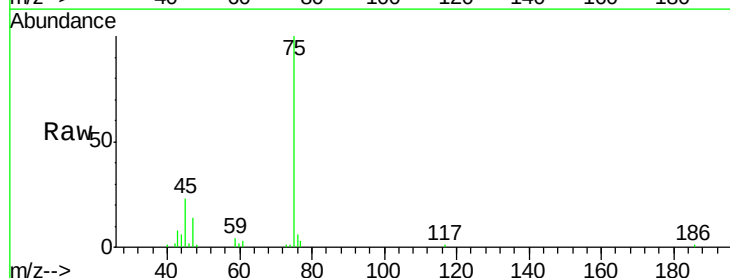


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

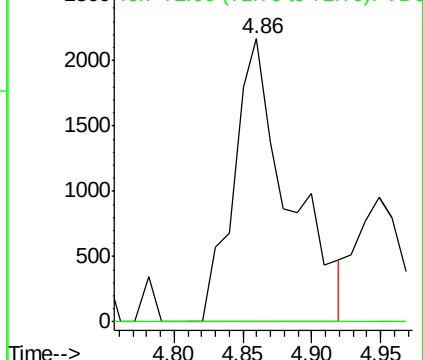
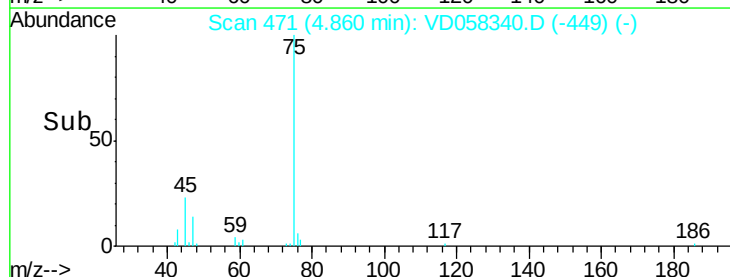


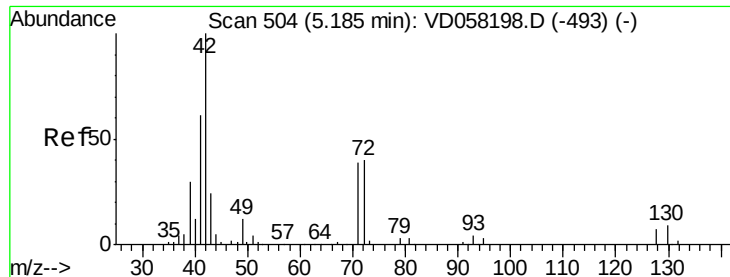
#25
2-Butanone
Concen: 2.00 ug/l
RT: 4.86 min Scan# 471
Delta R.T. 0.02 min
Lab File: VD058340.D
Acq: 23 Jun 2018 14:45

Tgt Ion: 43 Resp: 6010
Ion Ratio Lower Upper
43 100
72 0.0 14.1 21.1#



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





#29

Tetrahydrofuran

Concen: 1.35 ug/l

RT: 5.22 min Scan# 508

Delta R.T. 0.04 min

Lab File: VD058340.D

Acq: 23 Jun 2018 14:45

Instrument :

MSVOA_D

ClientSampled :

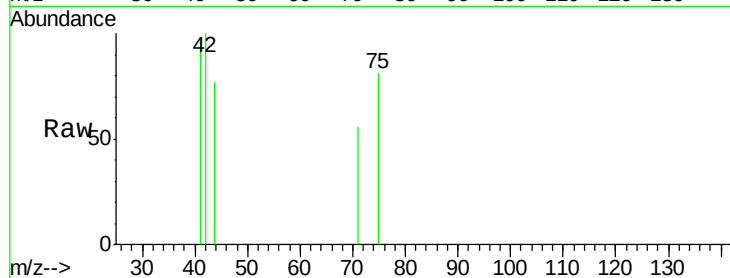
Tot Ion: 42 Resp: 2164

Ion Ratio Lower Upper

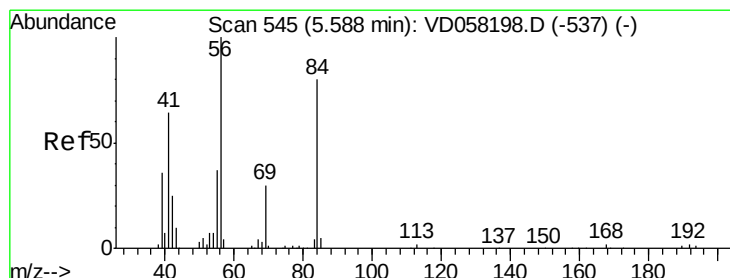
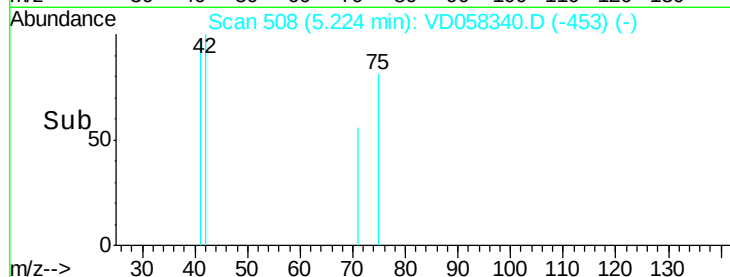
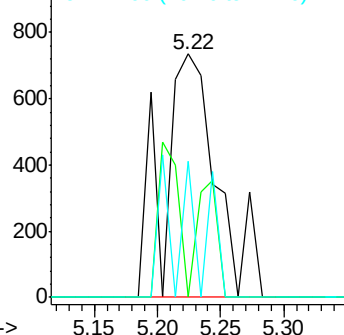
42 100

72 18.3 30.2 45.2#

71 0.0 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



#31

Cyclohexane

Concen: Below Cal

RT: 5.66 min Scan# 552

Delta R.T. 0.07 min

Lab File: VD058340.D

Acq: 23 Jun 2018 14:45

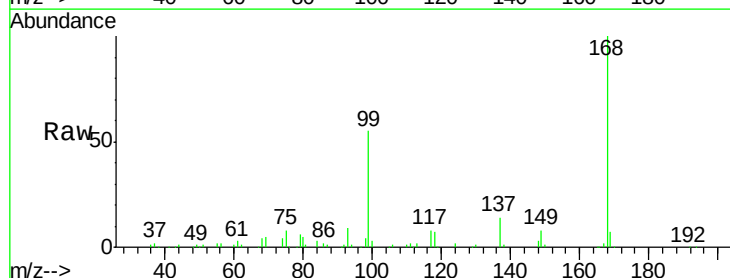
Tgt Ion: 56 Resp: 24040

Ion Ratio Lower Upper

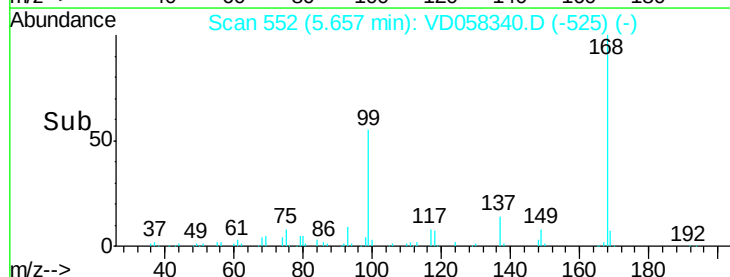
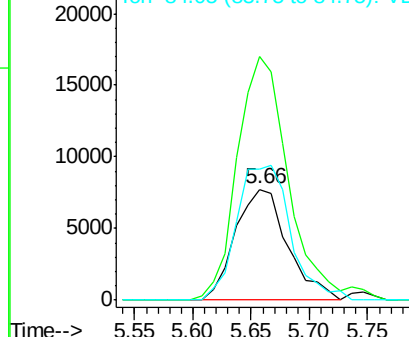
56 100

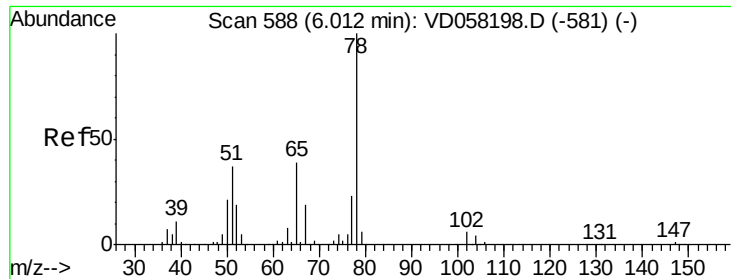
69 219.1 23.6 35.4#

84 118.2 65.2 97.8#



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

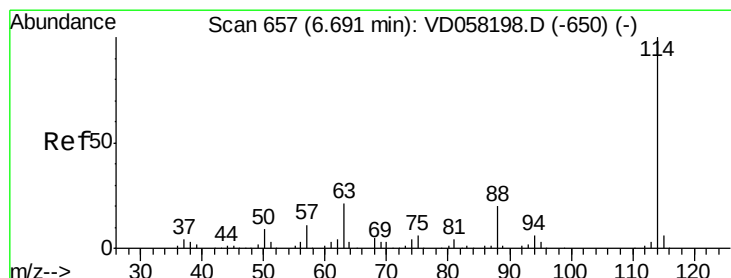
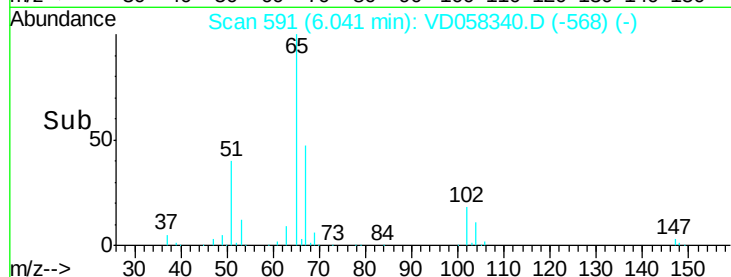
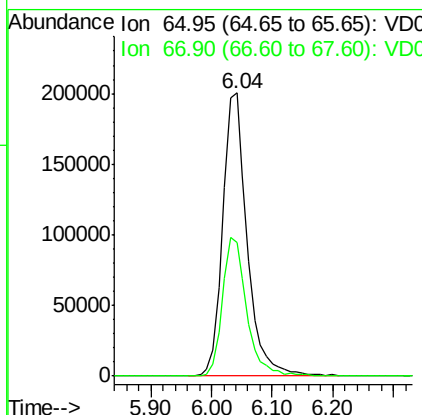
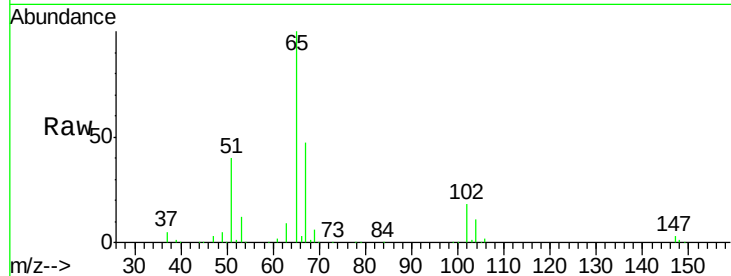




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 6.04 min Scan# 591
 Delta R.T. 0.03 min
 Lab File: VD058340.D
 Acq: 23 Jun 2018 14:45

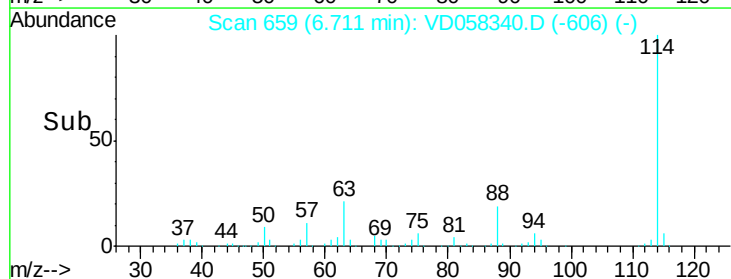
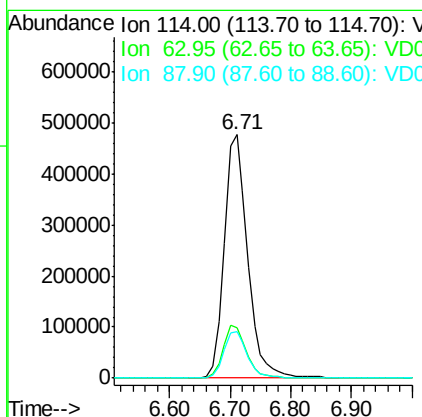
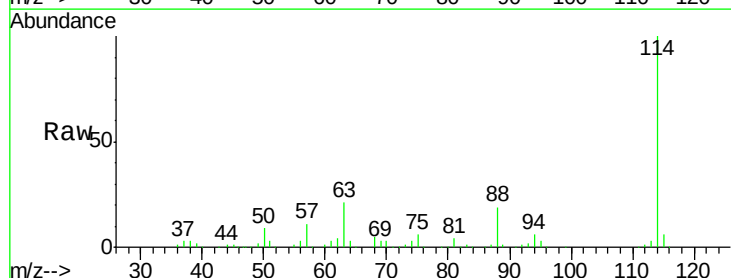
Instrument :
 MSVOA_D
 ClientSampleId :

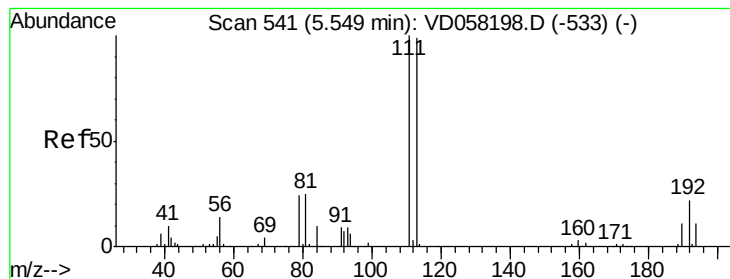
Tot Ion: 65 Resp: 560230
 Ion Ratio Lower Upper
 65 100
 67 47.2 0.0 97.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.71 min Scan# 659
 Delta R.T. 0.02 min
 Lab File: VD058340.D
 Acq: 23 Jun 2018 14:45

Tgt Ion: 114 Resp: 1275366
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 42.6
 88 19.3 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: VD058340.D

Acq: 23 Jun 2018 14:45

Instrument :
MSVOA_D
ClientSampled :

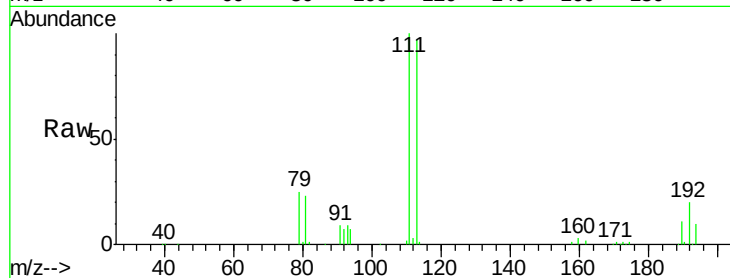
Tot Ion:113 Resp: 574533

Ion Ratio Lower Upper

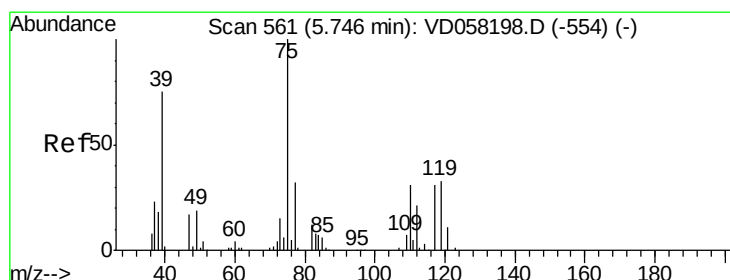
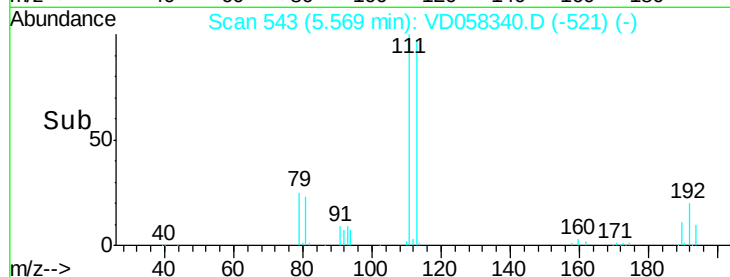
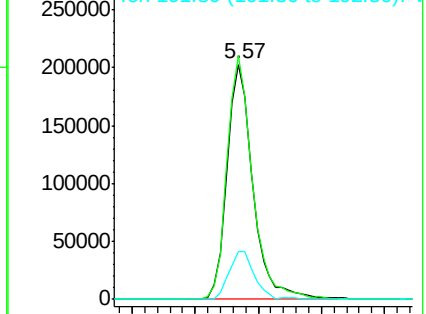
113 100

111 103.6 80.6 121.0

192 20.6 17.8 26.6



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: 6.71 ug/l

RT: 5.67 min Scan# 553

Delta R.T. -0.08 min

Lab File: VD058340.D

Acq: 23 Jun 2018 14:45

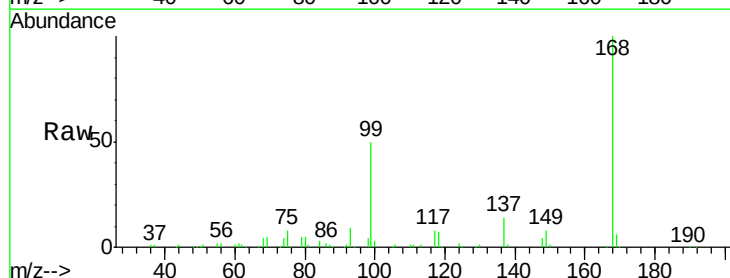
Tgt Ion: 75 Resp: 84598

Ion Ratio Lower Upper

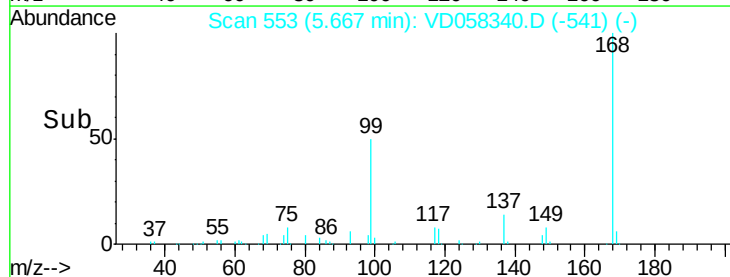
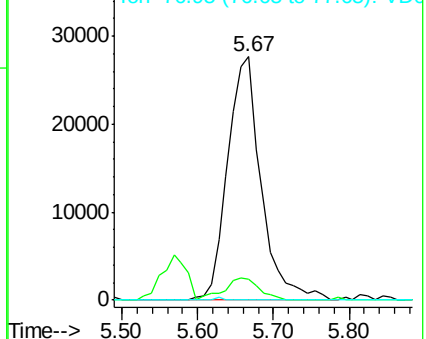
75 100

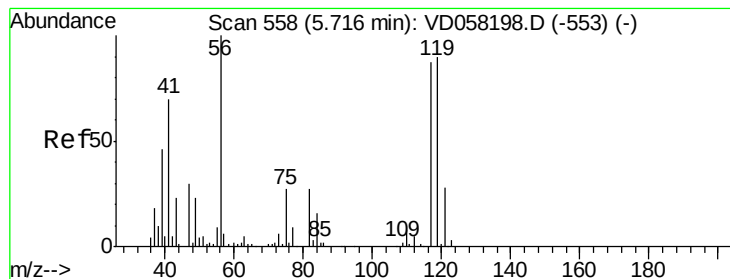
110 8.6 15.4 46.4#

77 0.0 25.4 38.2#



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





#38

Carbon Tetrachloride

Concen: 6.59 ug/l

RT: 5.66 min Scan# 552

Delta R.T. -0.06 min

Lab File: VD058340.D

Acq: 23 Jun 2018 14:45

Instrument :

MSVOA_D

ClientSampleId :

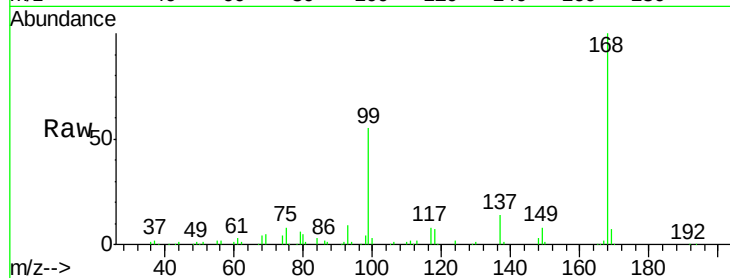
Tot Ion:117 Resp: 82640

Ion Ratio Lower Upper

117 100

119 5.6 78.8 118.2#

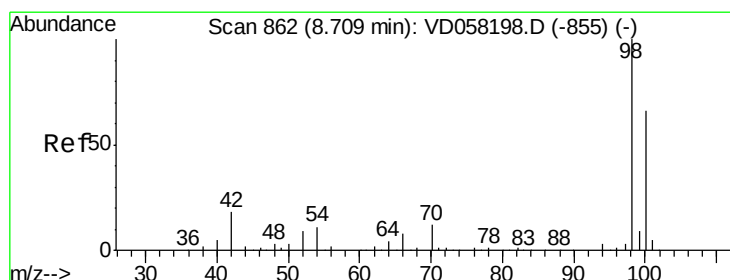
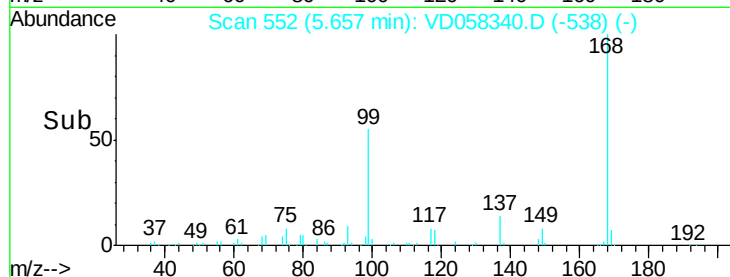
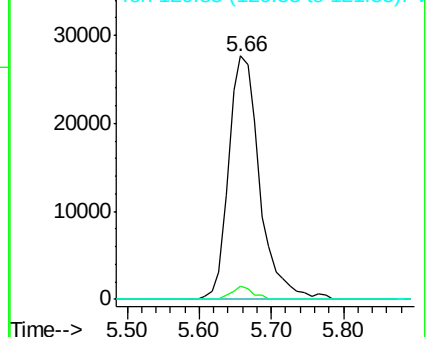
121 0.0 25.0 37.6#



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: 8.72 min Scan# 863

Delta R.T. 0.01 min

Lab File: VD058340.D

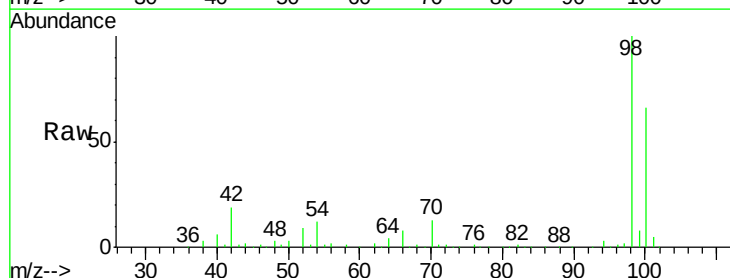
Acq: 23 Jun 2018 14:45

Tgt Ion: 98 Resp: 1294891

Ion Ratio Lower Upper

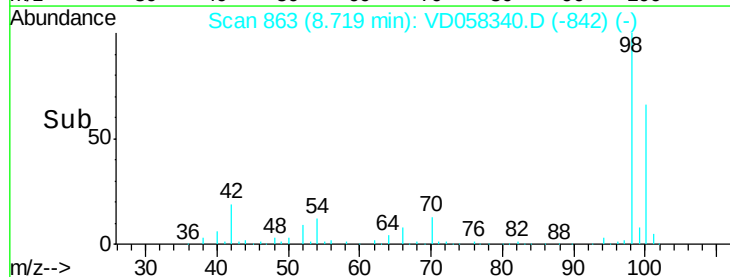
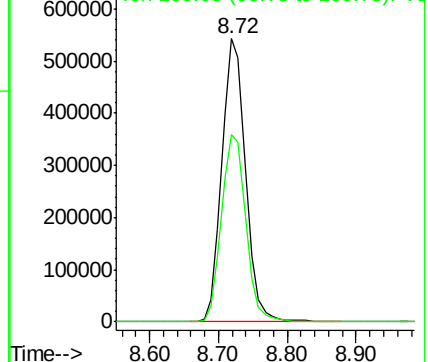
98 100

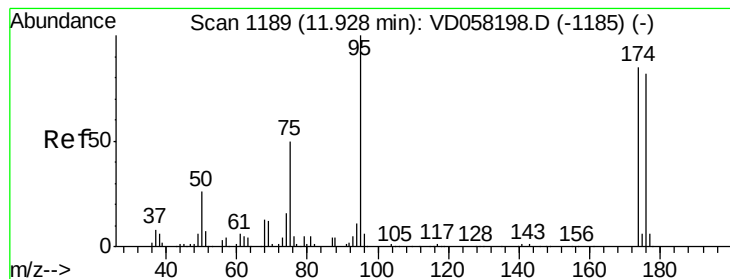
100 66.1 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058340.D

Acq: 23 Jun 2018 14:45

Instrument :

MSVOA_D

ClientSampleId :

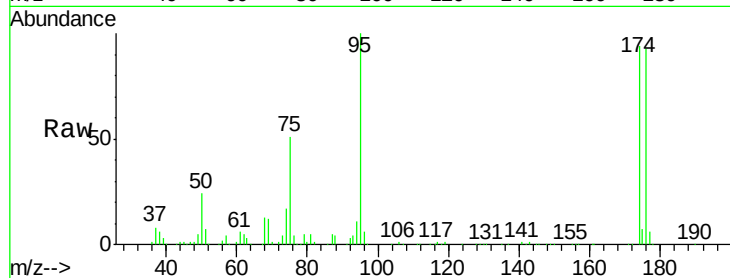
Tot Ion: 95 Resp: 547849

Ion Ratio Lower Upper

95 100

174 94.4 0.0 170.2

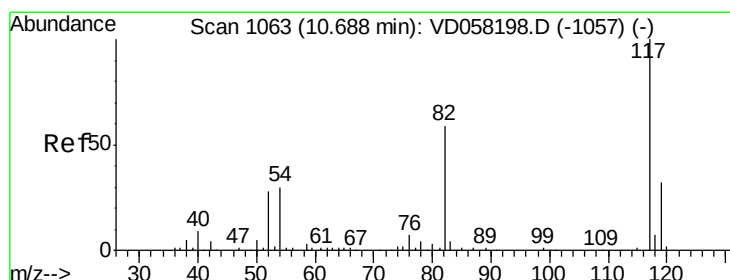
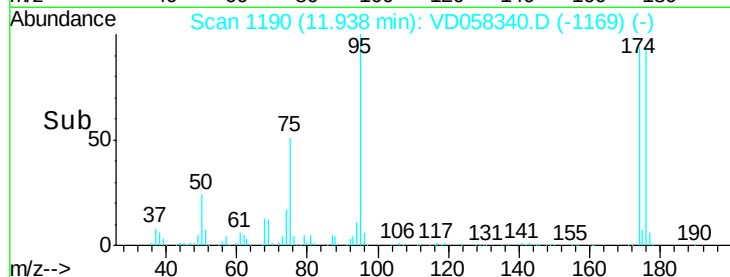
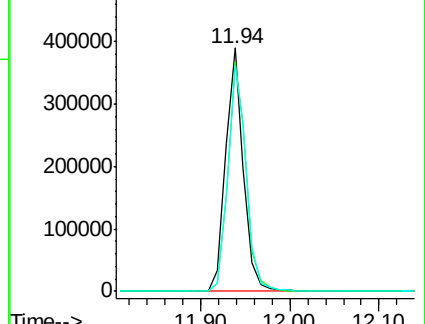
176 92.8 0.0 164.6



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: 50.00 ug/l

RT: 10.70 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VD058340.D

Acq: 23 Jun 2018 14:45

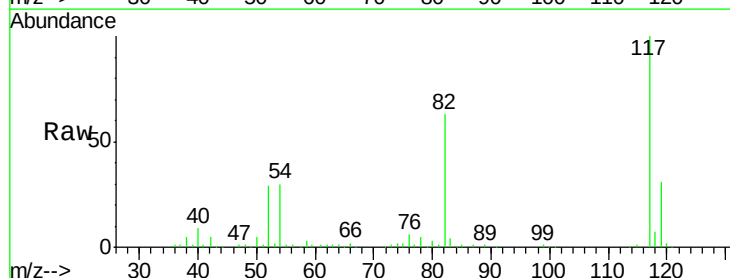
Tgt Ion: 117 Resp: 1011404

Ion Ratio Lower Upper

117 100

82 62.6 47.0 70.6

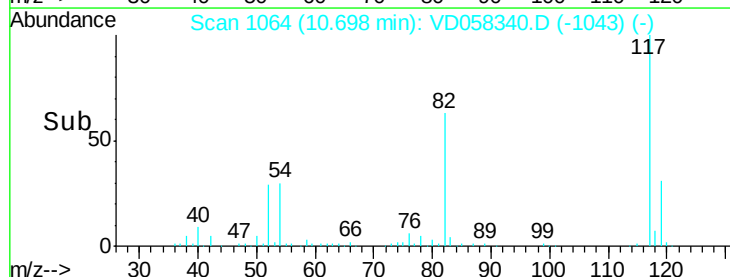
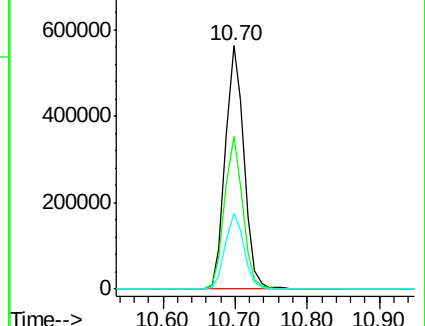
119 31.2 25.3 37.9

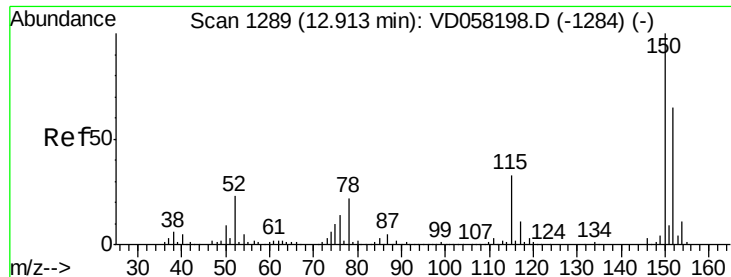


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.91 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VD058340.D

Acq: 23 Jun 2018 14:45

Instrument :

MSVOA_D

ClientSampled :

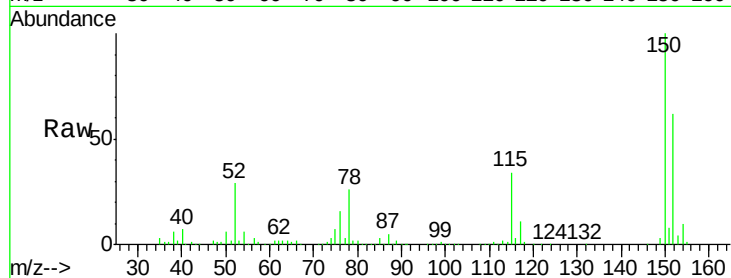
Tot Ion:152 Resp: 531061

Ion Ratio Lower Upper

152 100

115 54.1 25.1 75.3

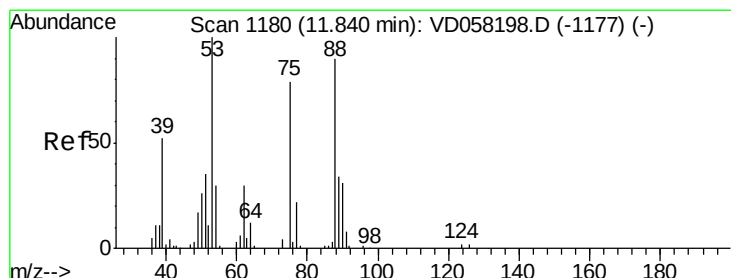
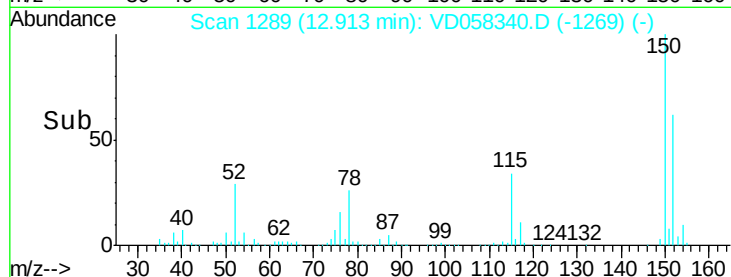
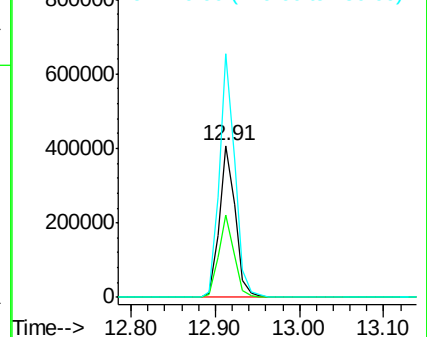
150 160.4 0.0 308.8



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: 141.33 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.10 min

Lab File: VD058340.D

Acq: 23 Jun 2018 14:45

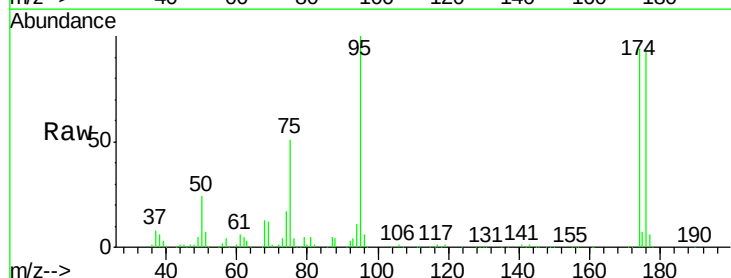
Tgt Ion: 75 Resp: 267269

Ion Ratio Lower Upper

75 100

53 0.0 100.8 151.2#

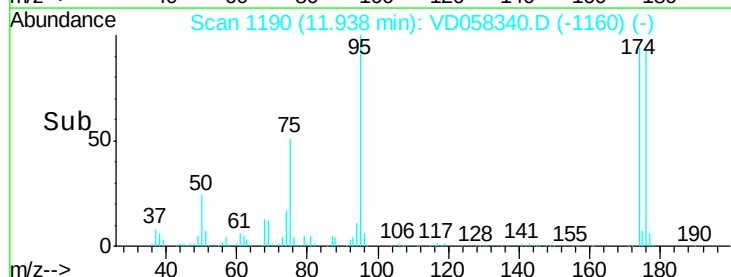
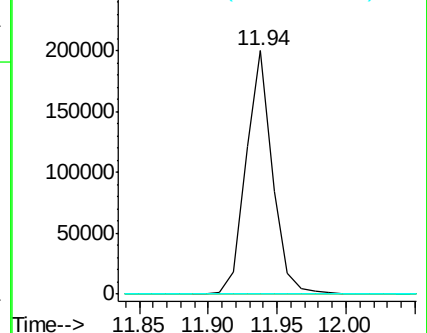
89 0.0 34.6 52.0#

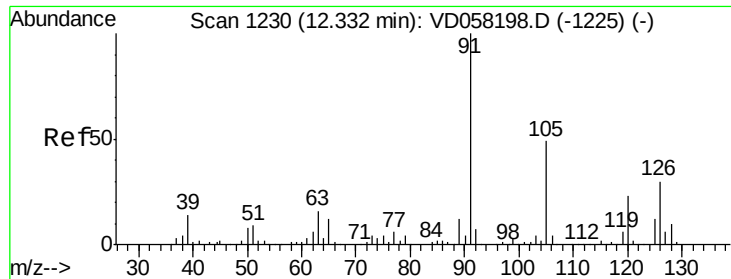


Abundance Ion 75.00 (74.70 to 75.70): VDC

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: 12.33 min Scan# 1230
 Delta R.T. 0.00 min
 Lab File: VD058340.D
 Acq: 23 Jun 2018 14:45

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 91 Resp: 2632
 Ion Ratio Lower Upper
 91 100
 126 17.3 14.9 44.9

