

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062118\
 Data File : VD058290.D
 Acq On : 22 Jun 2018 11:23
 Operator : VA/AP
 Sample : J3603-23
 Misc : 5.77g/5ml/MSVOA D/SOIL
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 22 11:50:46 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	5.64	168	413379	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	446149	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	194161	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	37400	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	172502	41.31	ug/l	0.00
Spiked Amount 50.000			Recovery =	82.62%		
35) Dibromofluoromethane	5.55	113	195572	53.86	ug/l	0.00
Spiked Amount 50.000			Recovery =	107.72%		
50) Toluene-d8	8.70	98	342422	38.98	ug/l	0.00
Spiked Amount 50.000			Recovery =	77.96%		
62) 4-Bromofluorobenzene	11.93	95	67398	18.78	ug/l	0.00
Spiked Amount 50.000			Recovery =	37.56%		

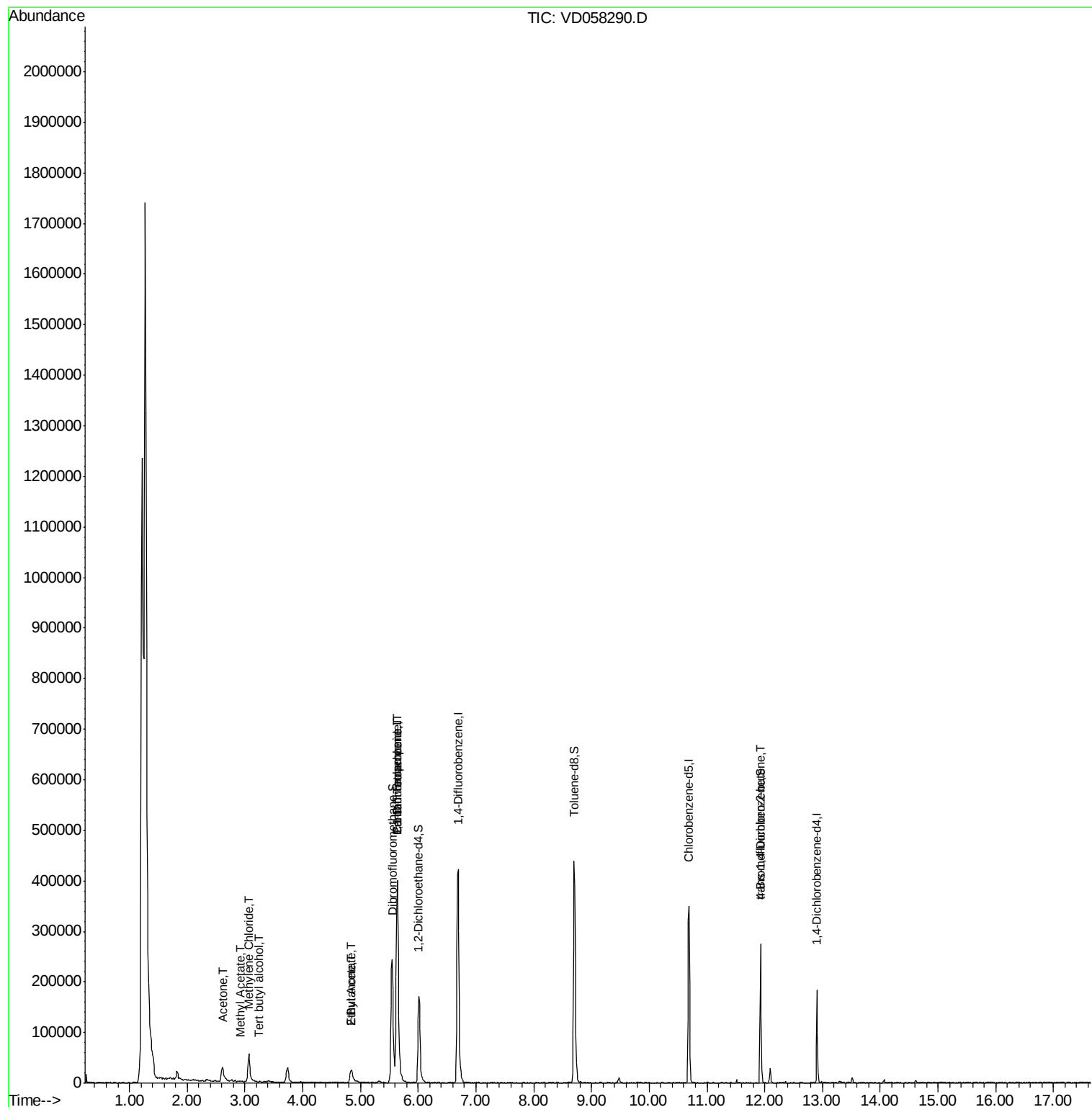
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.34	85	222	Below Cal	#	43
3) Chloromethane	1.47	50	259	Below Cal	#	43
5) Bromomethane	1.80	94	178	Below Cal	#	3
11) Tert butyl alcohol	3.26	59	178	1.29	ug/l	78
16) Acetone	2.62	43	63572	111.33	ug/l	97
18) Methyl Acetate	2.92	43	1348	1.11	ug/l	65
20) Methylene Chloride	3.07	84	23835	12.41	ug/l	90
25) 2-Butanone	4.85	43	7831	6.29	ug/l	60
31) Cyclohexane	5.65	56	9864	Below Cal	#	9
36) 1,1-Dichloropropene	5.64	75	34194	7.75	ug/l	46
37) Ethyl Acetate	4.85	43	7831	3.11	ug/l	72
38) Carbon Tetrachloride	5.64	117	33273	7.59	ug/l	15
81) trans-1,4-Dichloro-2-buten	11.93	75	31123	233.69	ug/l	1
82) 4-Chlorotoluene	12.33	91	181	Below Cal	#	45

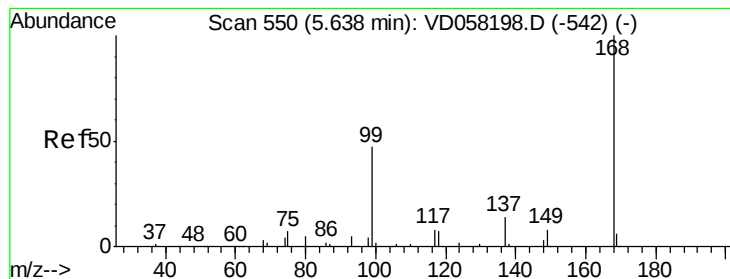
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 20 05:52:56 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.64 min Scan# 550

Delta R.T. 0.00 min

Lab File: VD058290.D

Acq: 22 Jun 2018 11:23

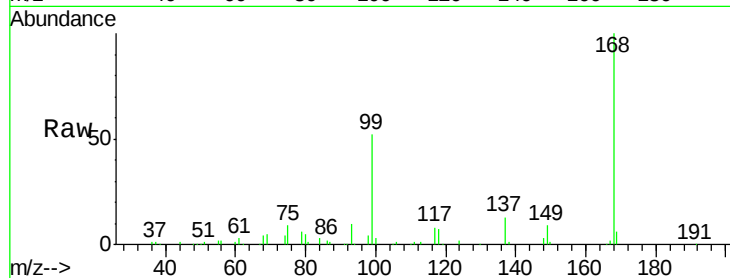
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 413379

Ion Ratio Lower Upper

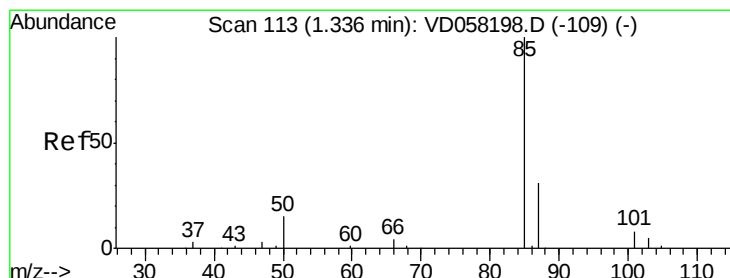
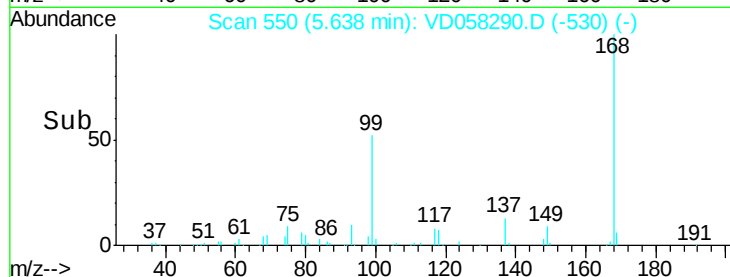
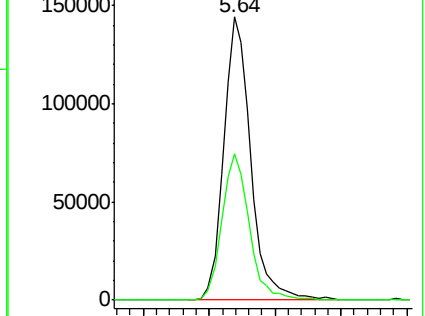
168 100

99 51.5 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: 1.34 min Scan# 113

Delta R.T. 0.00 min

Lab File: VD058290.D

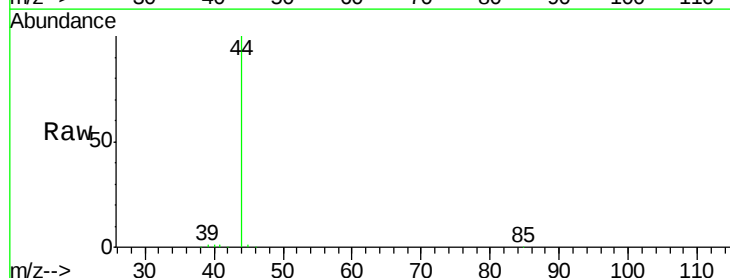
Acq: 22 Jun 2018 11:23

Tgt Ion: 85 Resp: 222

Ion Ratio Lower Upper

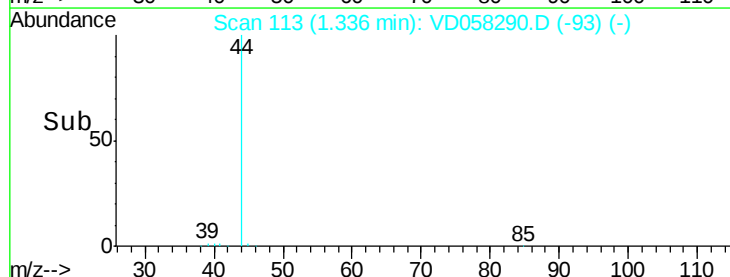
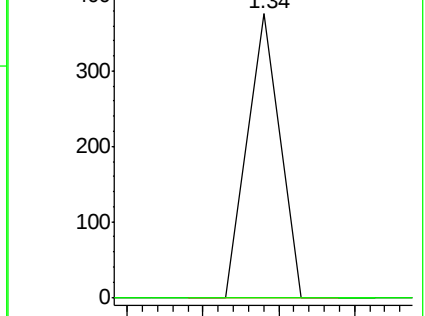
85 100

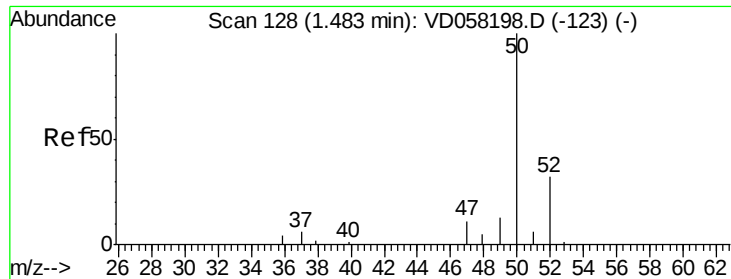
87 0.0 15.7 47.0#



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: 1.47 min Scan# 127

Delta R.T. -0.01 min

Lab File: VD058290.D

Acq: 22 Jun 2018 11:23

Instrument :

MSVOA_D

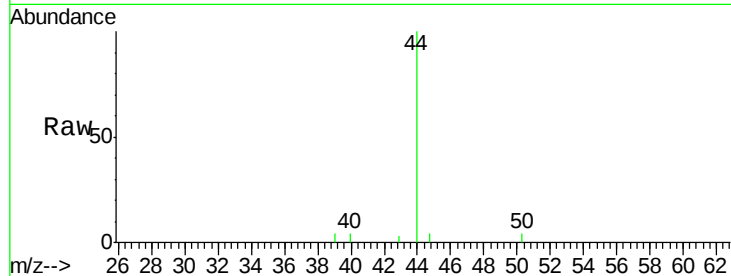
ClientSampleId :

Tot Ion: 50 Resp: 259

Ion Ratio Lower Upper

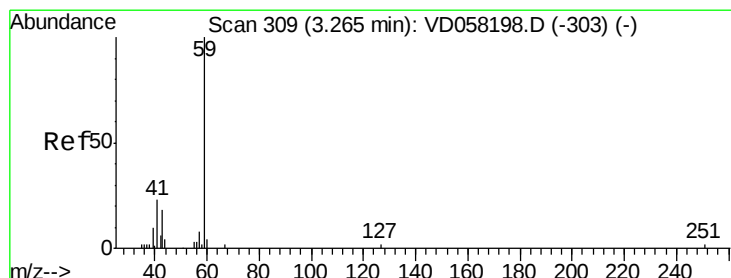
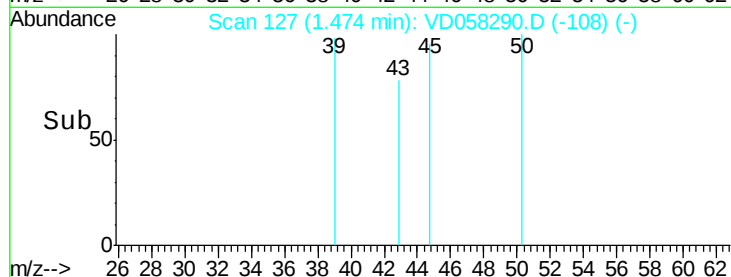
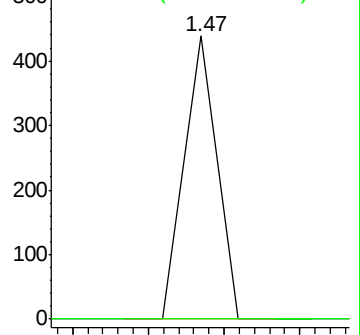
50 100

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: 1.29 ug/l

RT: 3.26 min Scan# 308

Delta R.T. -0.01 min

Lab File: VD058290.D

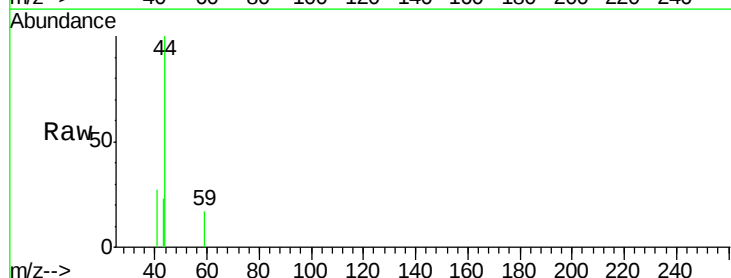
Acq: 22 Jun 2018 11:23

Tgt Ion: 59 Resp: 178

Ion Ratio Lower Upper

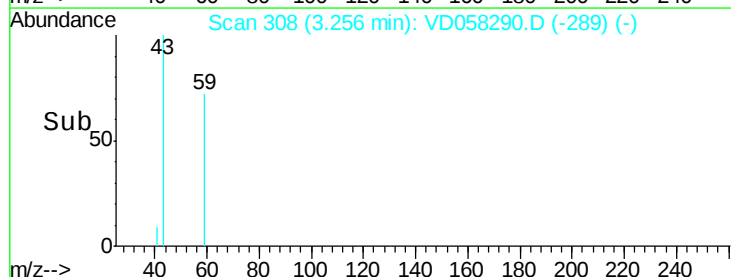
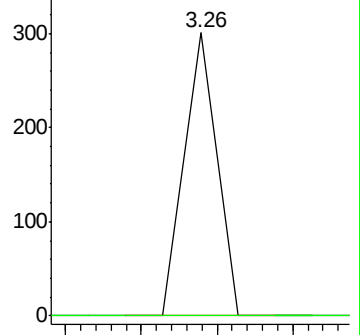
59 100

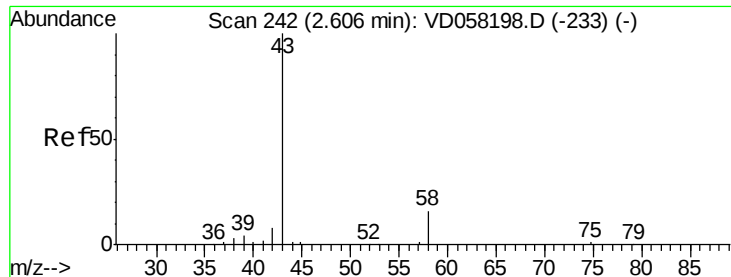
57 0.0 6.2 9.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 111.33 ug/l

RT: 2.62 min Scan# 243

Delta R.T. 0.01 min

Lab File: VD058290.D

Acq: 22 Jun 2018 11:23

Instrument :

MSVOA_D

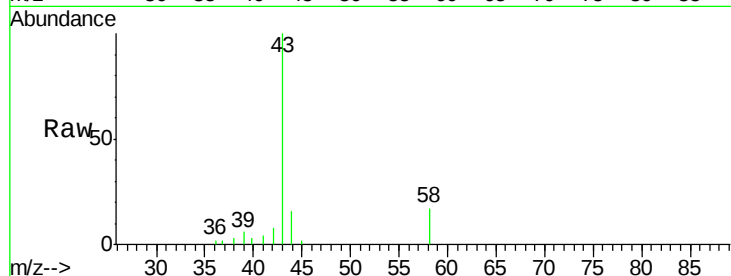
ClientSampleId :

Tot Ion: 43 Resp: 63572

Ion Ratio Lower Upper

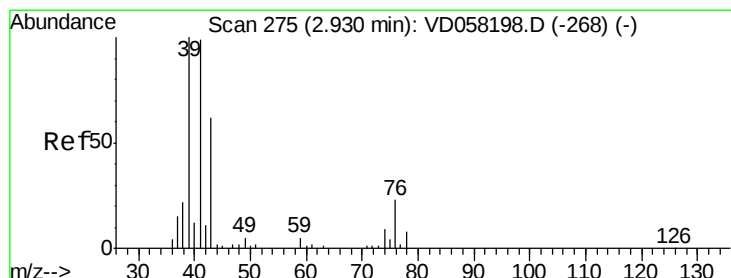
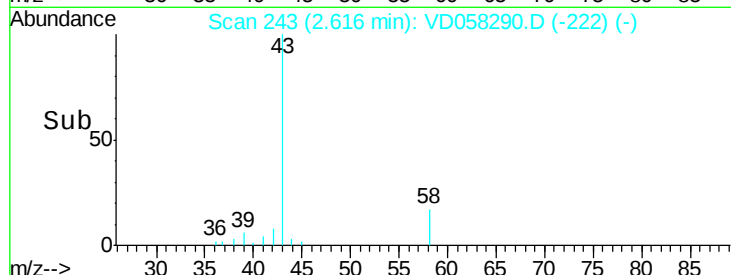
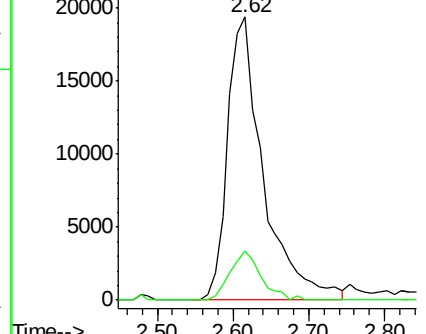
43 100

58 17.1 12.7 19.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 1.11 ug/l

RT: 2.92 min Scan# 274

Delta R.T. -0.01 min

Lab File: VD058290.D

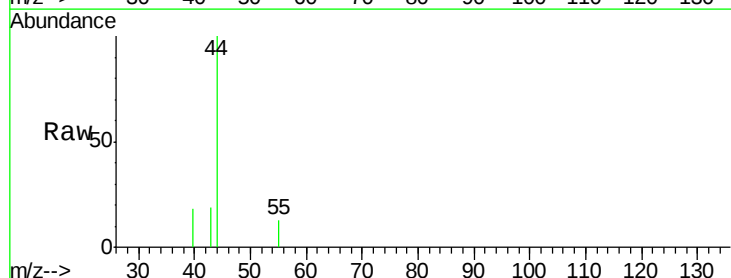
Acq: 22 Jun 2018 11:23

Tgt Ion: 43 Resp: 1348

Ion Ratio Lower Upper

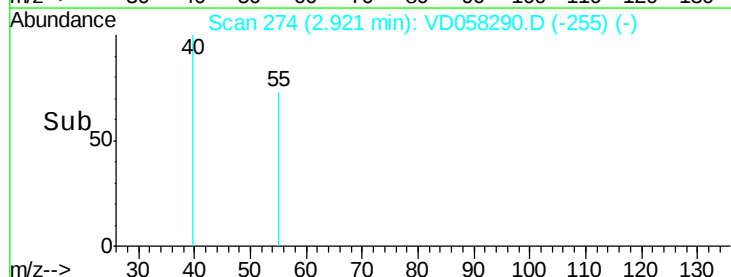
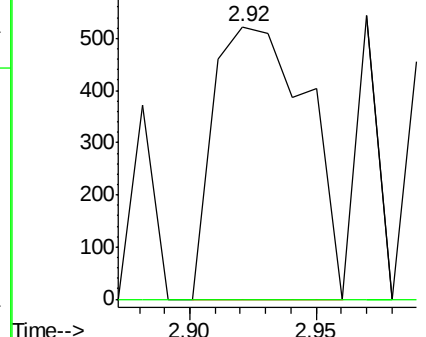
43 100

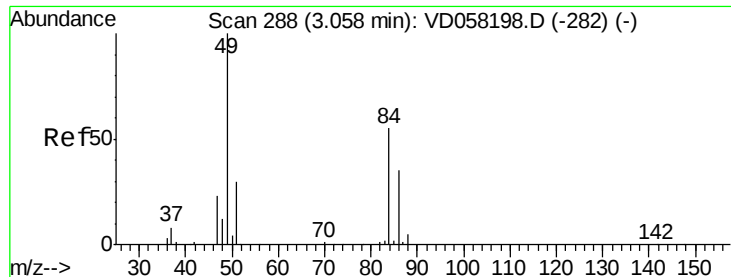
74 0.0 11.7 17.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

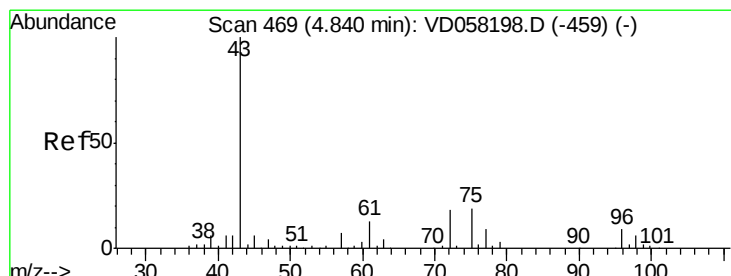
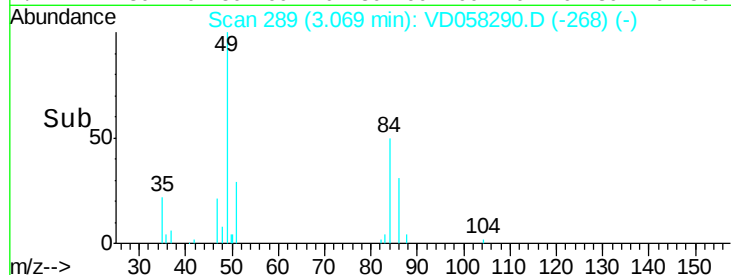
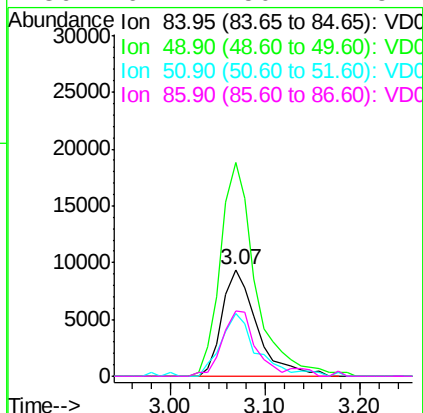
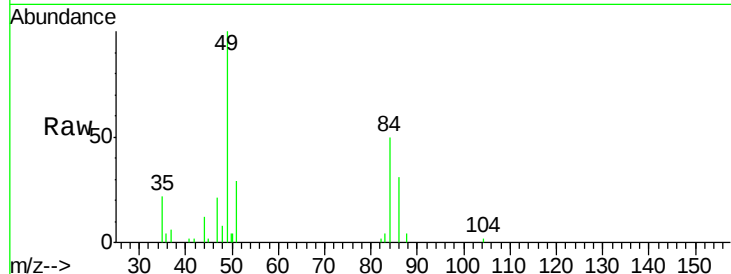




#20
Methvlene Chloride
Concen: 12.41 ug/l
RT: 3.07 min Scan# 289
Delta R.T. 0.01 min
Lab File: VD058290.D
Acq: 22 Jun 2018 11:23

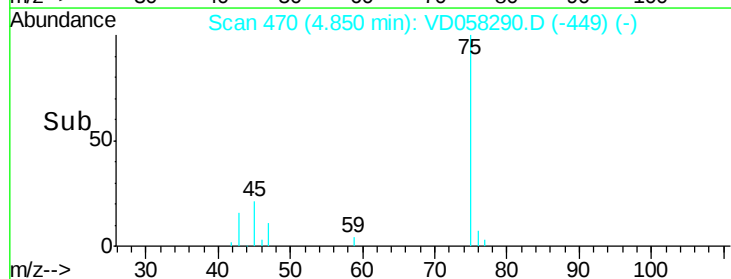
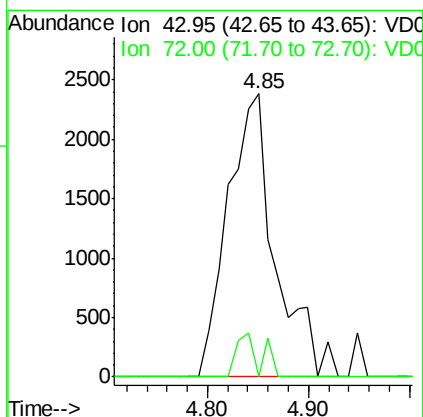
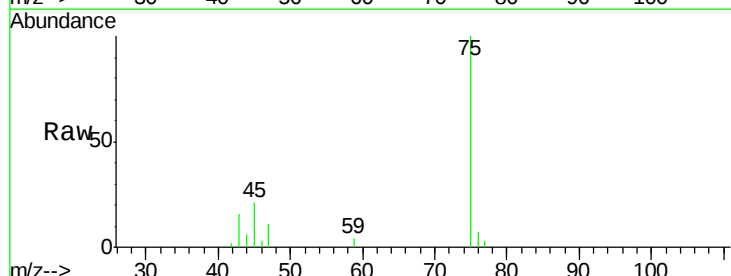
Instrument :
MSVOA_D
ClientSampled :

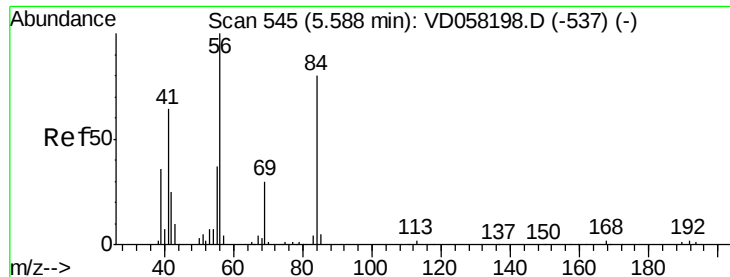
Tot Ion: 84 Resp: 23835
Ion Ratio Lower Upper
84 100
49 200.6 145.0 217.6
51 59.0 42.9 64.3
86 61.2 50.1 75.1



#25
2-Butanone
Concen: 6.29 ug/l
RT: 4.85 min Scan# 470
Delta R.T. 0.01 min
Lab File: VD058290.D
Acq: 22 Jun 2018 11:23

Tgt Ion: 43 Resp: 7831
Ion Ratio Lower Upper
43 100
72 0.0 14.1 21.1#

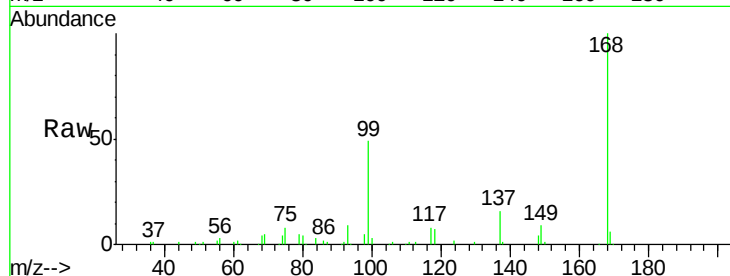




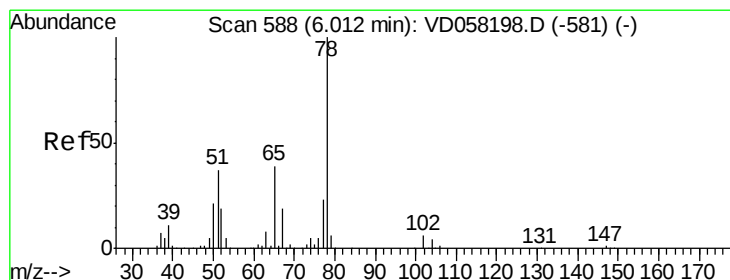
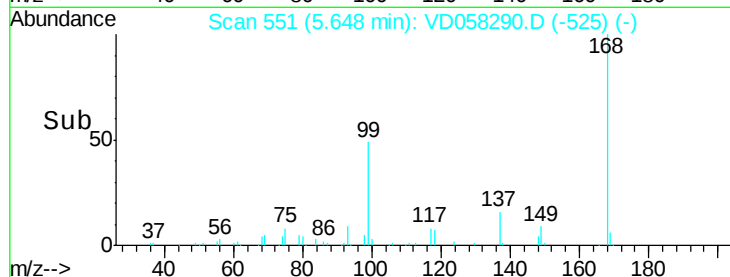
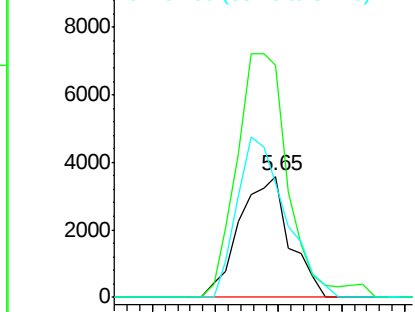
#31
Cyclohexane
Concen: Below Cal
RT: 5.65 min Scan# 551
Delta R.T. 0.06 min
Lab File: VD058290.D
Acq: 22 Jun 2018 11:23

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 9864
Ion Ratio Lower Upper
56 100
69 191.1 23.6 35.4#
84 94.5 65.2 97.8

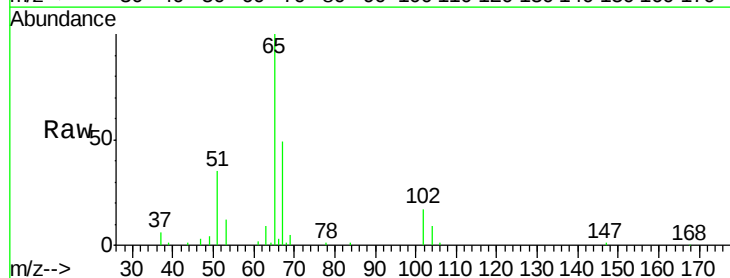


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

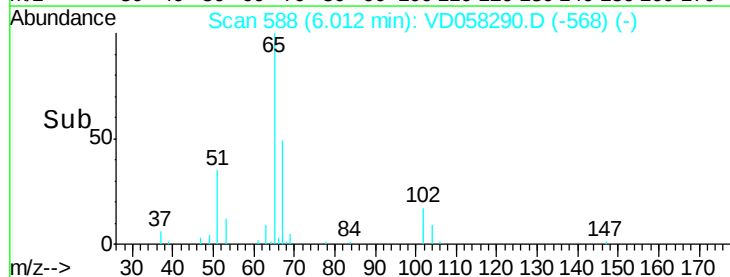
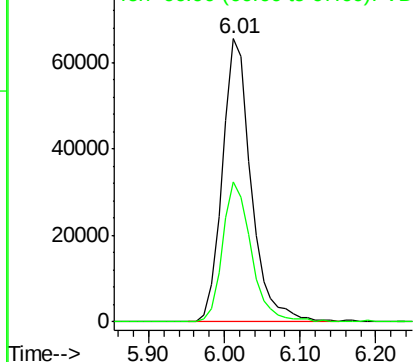


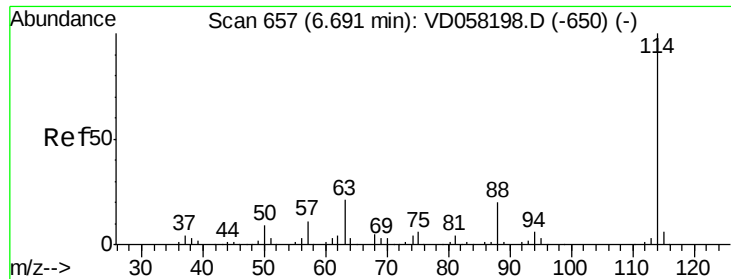
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 6.01 min Scan# 588
Delta R.T. 0.00 min
Lab File: VD058290.D
Acq: 22 Jun 2018 11:23

Tgt Ion: 65 Resp: 172502
Ion Ratio Lower Upper
65 100
67 49.4 0.0 97.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

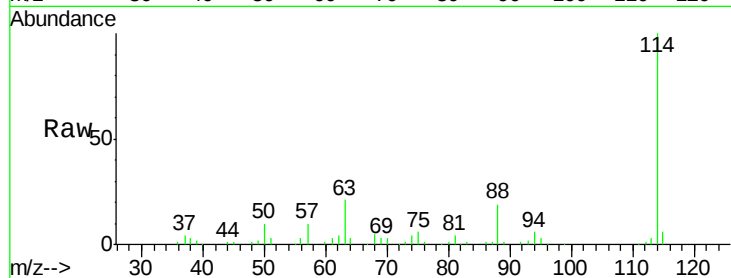




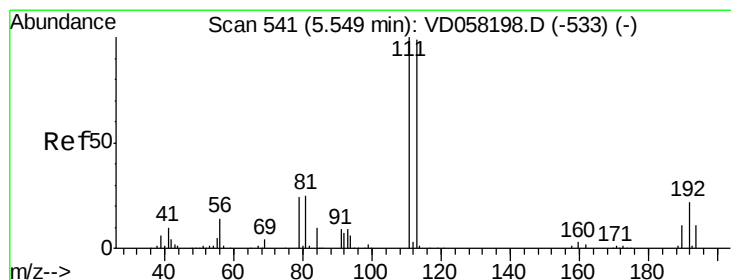
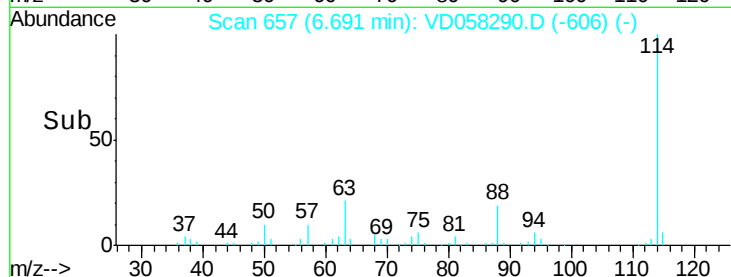
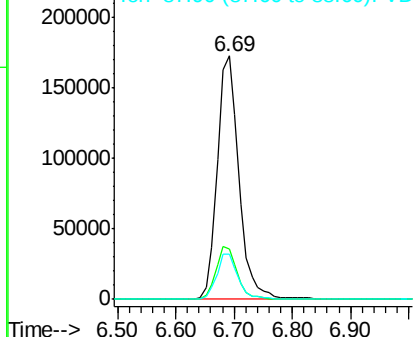
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.69 min Scan# 657
 Delta R.T. 0.00 min
 Lab File: VD058290.D
 Acq: 22 Jun 2018 11:23

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 446149
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 42.6
 88 18.5 0.0 40.6

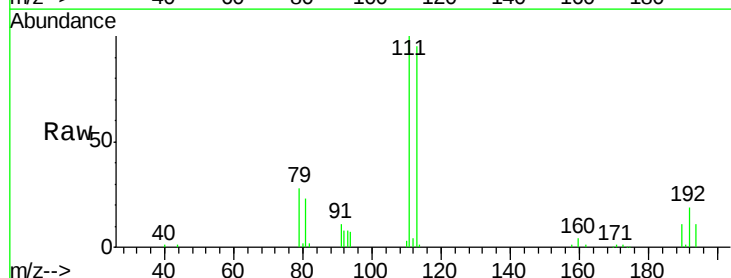


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): VDC
 Ion 87.90 (87.60 to 88.60): VDC

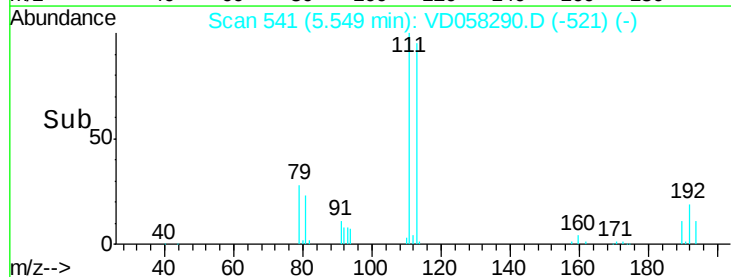
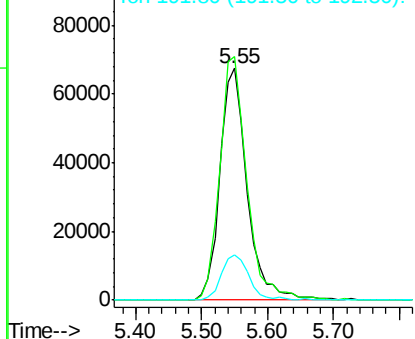


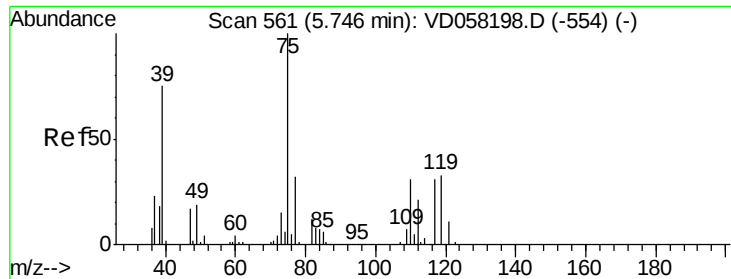
#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 5.55 min Scan# 541
 Delta R.T. 0.00 min
 Lab File: VD058290.D
 Acq: 22 Jun 2018 11:23

Tgt Ion:113 Resp: 195572
 Ion Ratio Lower Upper
 113 100
 111 104.9 80.6 121.0
 192 19.6 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: 7.75 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.11 min

Lab File: VD058290.D

Acq: 22 Jun 2018 11:23

Instrument :

MSVOA_D

ClientSampleId :

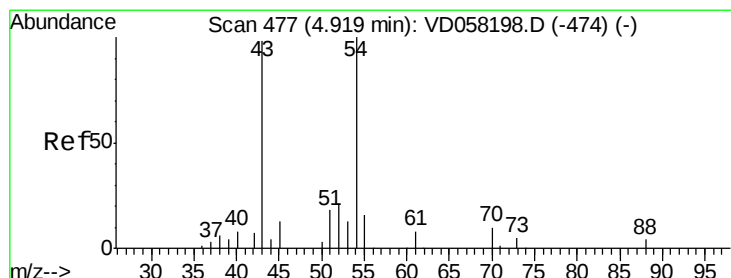
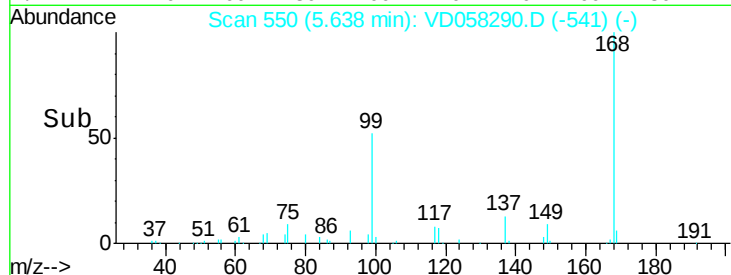
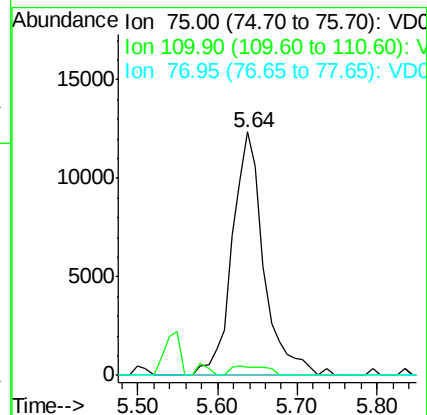
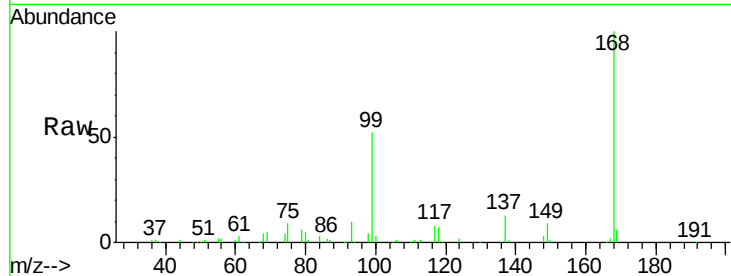
Tot Ion: 75 Resp: 34194

Ion Ratio Lower Upper

75 100

110 3.3 15.4 46.4#

77 0.0 25.4 38.2#



#37

Ethyl Acetate

Concen: 3.11 ug/l

RT: 4.85 min Scan# 470

Delta R.T. -0.07 min

Lab File: VD058290.D

Acq: 22 Jun 2018 11:23

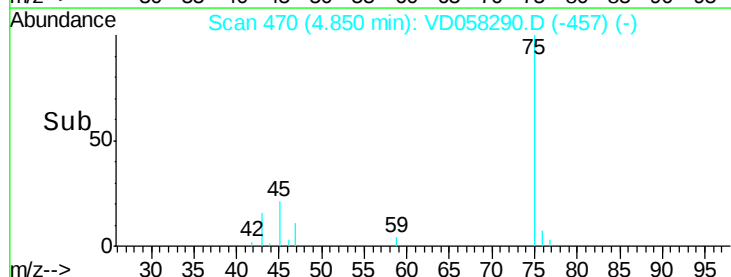
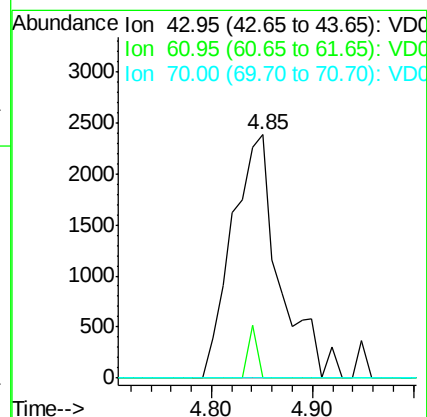
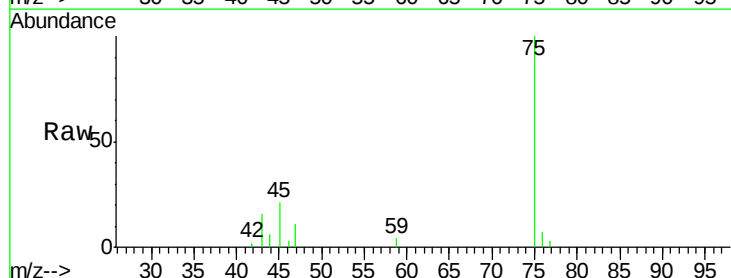
Tgt Ion: 43 Resp: 7831

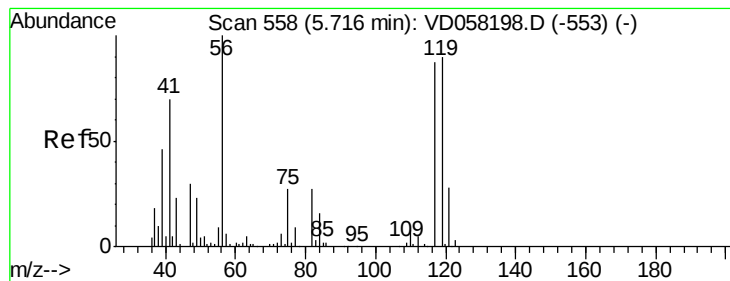
Ion Ratio Lower Upper

43 100

61 0.0 10.3 15.5#

70 0.0 5.7 8.5#





#38

Carbon Tetrachloride

Concen: 7.59 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.08 min

Lab File: VD058290.D

Acq: 22 Jun 2018 11:23

Instrument :

MSVOA_D

ClientSampleId :

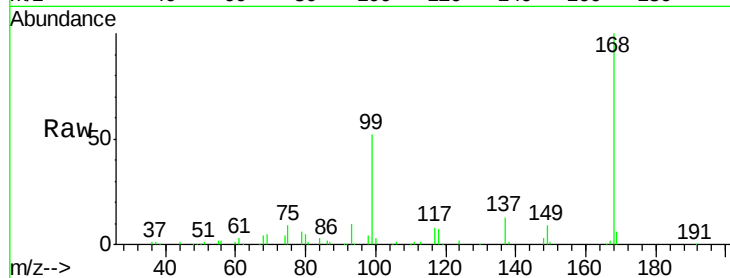
Tot Ion:117 Resp: 33273

Ion Ratio Lower Upper

117 100

119 5.5 78.8 118.2#

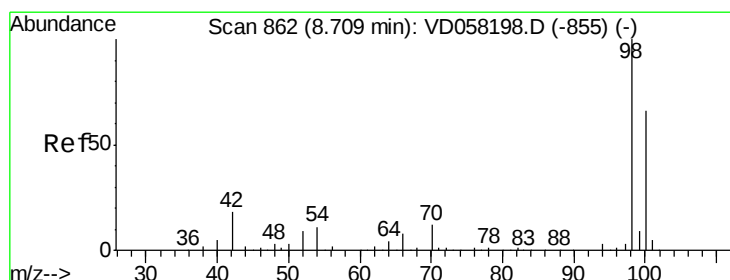
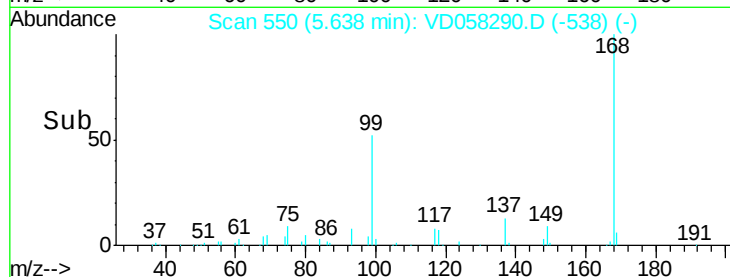
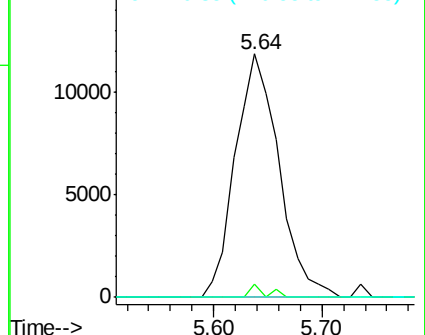
121 0.0 25.0 37.6#



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: 8.70 min Scan# 861

Delta R.T. -0.01 min

Lab File: VD058290.D

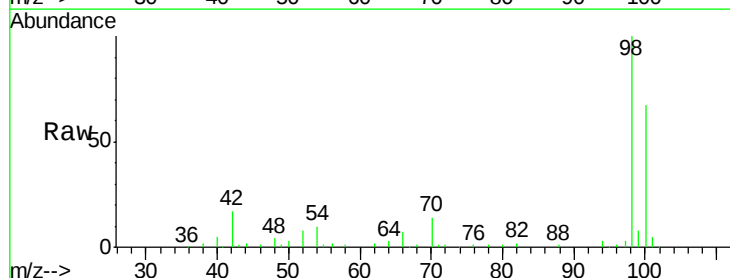
Acq: 22 Jun 2018 11:23

Tgt Ion: 98 Resp: 342422

Ion Ratio Lower Upper

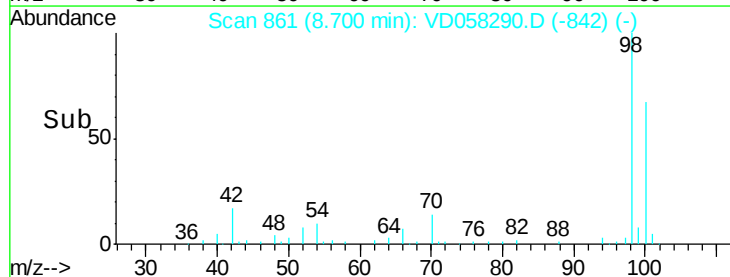
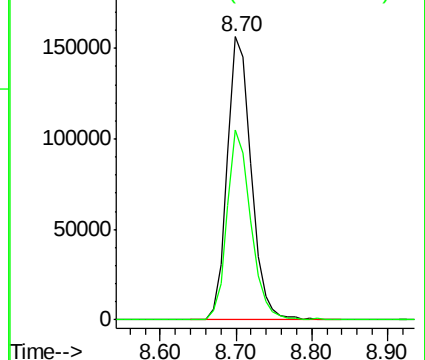
98 100

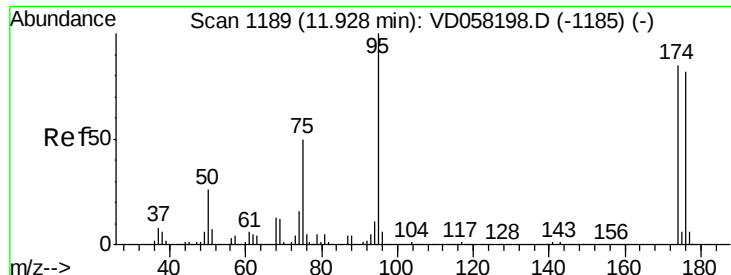
100 67.0 53.6 80.4



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: 11.93 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VD058290.D

Acq: 22 Jun 2018 11:23

Instrument :

MSVOA_D

ClientSampleId :

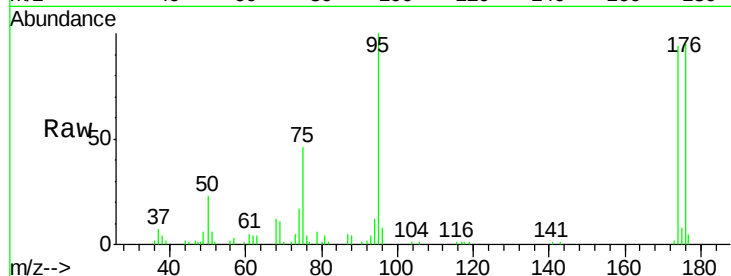
Tot Ion: 95 Resp: 67398

Ion Ratio Lower Upper

95 100

174 94.4 0.0 170.2

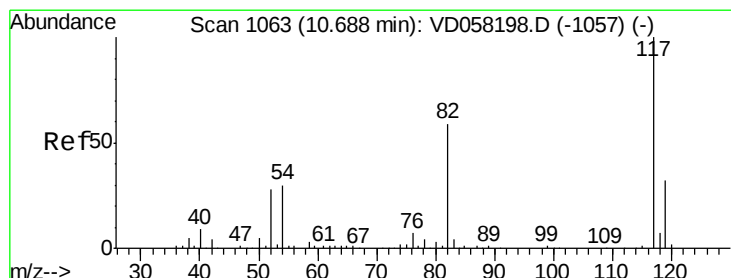
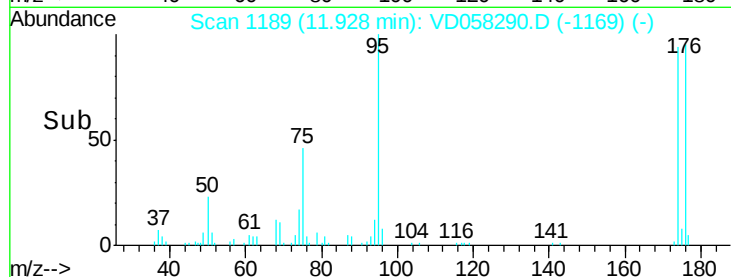
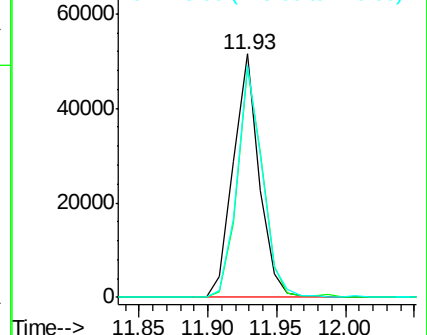
176 95.3 0.0 164.6



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: 10.69 min Scan# 1063

Delta R.T. 0.00 min

Lab File: VD058290.D

Acq: 22 Jun 2018 11:23

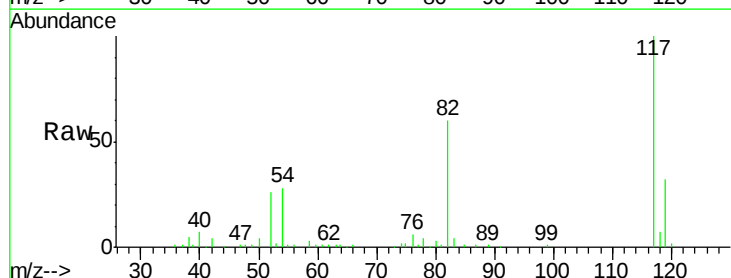
Tgt Ion: 117 Resp: 194161

Ion Ratio Lower Upper

117 100

82 60.4 47.0 70.6

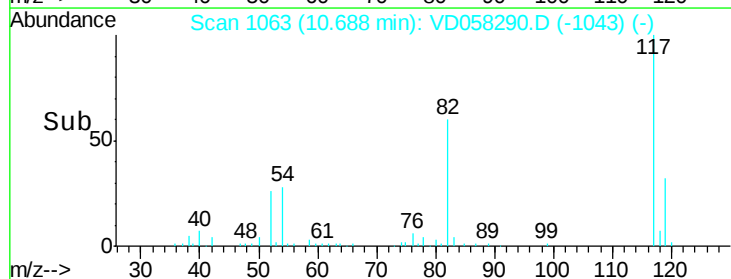
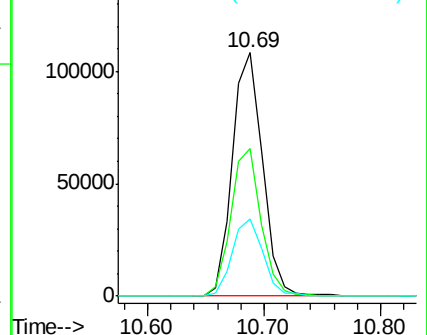
119 31.6 25.3 37.9

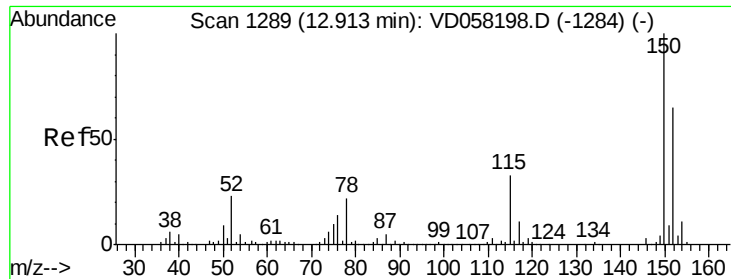


Abundance Ion 116.95 (116.65 to 117.65): V

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: 12.90 min Scan# 1288

Delta R.T. -0.01 min

Lab File: VD058290.D

Acq: 22 Jun 2018 11:23

Instrument :

MSVOA_D

ClientSampleId :

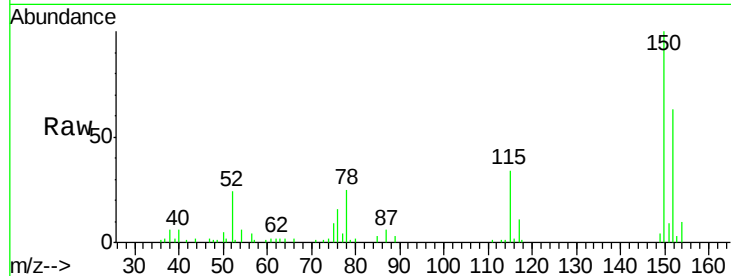
Tot Ion:152 Resp: 37400

Ion Ratio Lower Upper

152 100

115 54.1 25.1 75.3

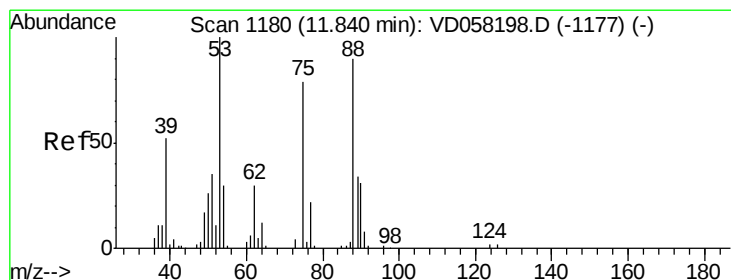
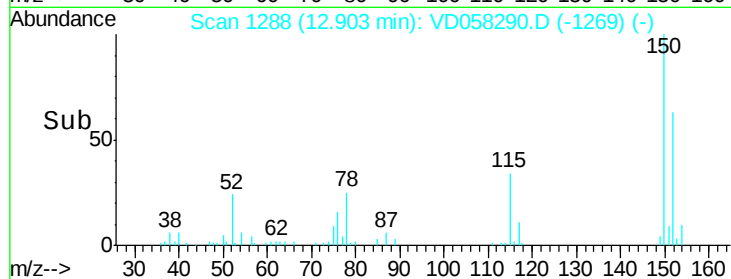
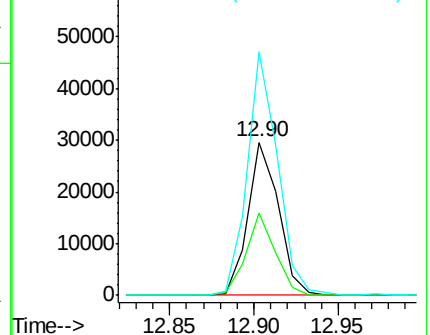
150 158.8 0.0 308.8



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: 233.69 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058290.D

Acq: 22 Jun 2018 11:23

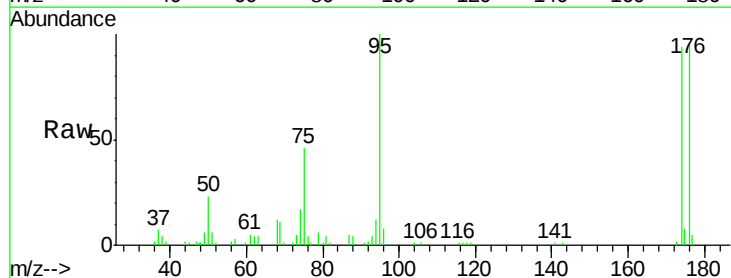
Tgt Ion: 75 Resp: 31123

Ion Ratio Lower Upper

75 100

53 0.0 100.8 151.2#

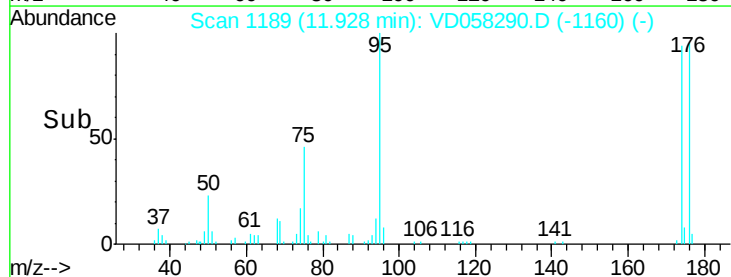
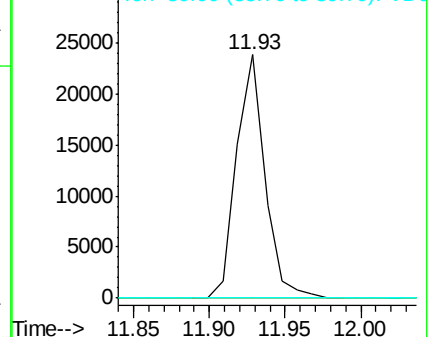
89 0.0 34.6 52.0#

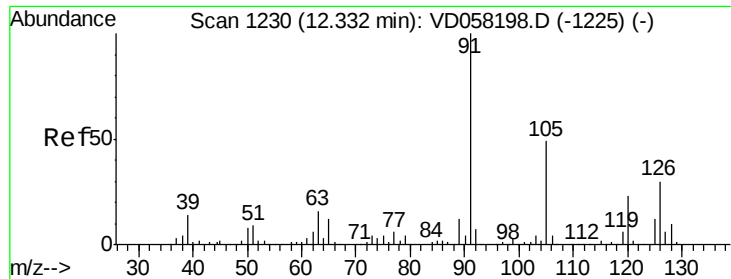


Abundance Ion 75.00 (74.70 to 75.70): VDC

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: VD058290.D
 Acq: 22 Jun 2018 11:23

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 91 Resp: 181
 Ion Ratio Lower Upper
 91 100
 126 0.0 14.9 44.9#

