

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
 Data File : VD058304.D
 Acq On : 22 Jun 2018 18:51
 Operator : VA/AP
 Sample : J3663-07
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB472-30-32-180618

Quant Time: Jun 22 22:20:16 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	616167	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.68	114	811856	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	638040	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	344127	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	360001	57.84	ug/l	0.00
Spiked Amount			Recovery	=	115.68%	
35) Dibromofluoromethane	5.54	113	380352	57.56	ug/l	0.00
Spiked Amount			Recovery	=	115.12%	
50) Toluene-d8	8.70	98	845780	52.91	ug/l	0.00
Spiked Amount			Recovery	=	105.82%	
62) 4-Bromofluorobenzene	11.93	95	375072	57.43	ug/l	0.00
Spiked Amount			Recovery	=	114.86%	

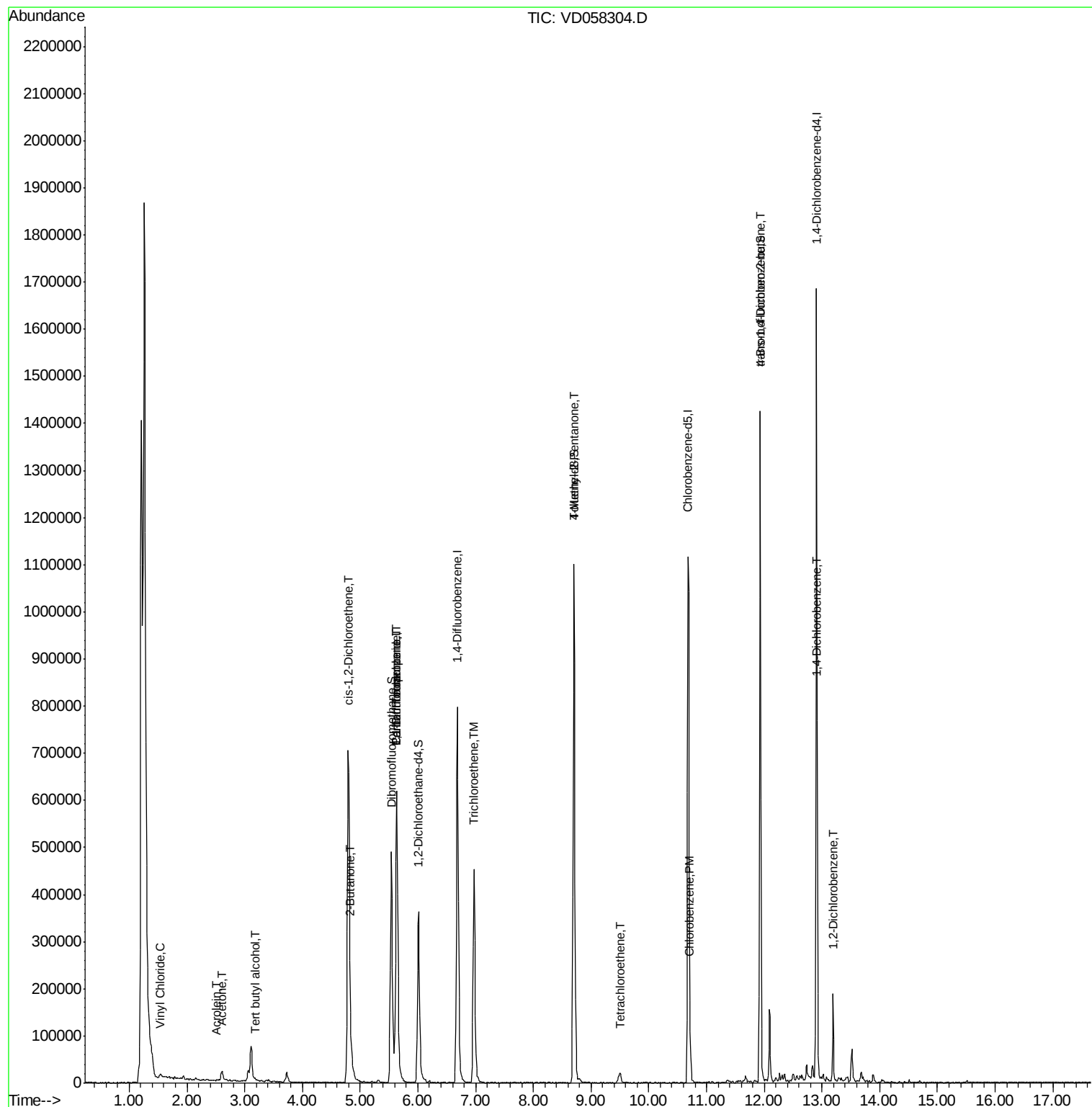
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.33	85	224	Below Cal	#	43
3) Chloromethane	1.52	50	211	Below Cal	#	43
4) Vinyl Chloride	1.54	62	4836	1.498	ug/l	100
11) Tert butyl alcohol	3.18	59	1306	6.362	ug/l #	78
13) Acrolein	2.51	56	311	2.654	ug/l #	11
16) Acetone	2.61	43	43360	50.943	ug/l	94
20) Methylene Chloride	3.06	84	7885	Below Cal		92
25) 2-Butanone	4.83	43	5423	2.923	ug/l #	87
27) cis-1,2-Dichloroethene	4.79	96	431110	74.569	ug/l	91
31) Cyclohexane	5.63	56	15154	Below Cal	#	1
36) 1,1-Dichloropropene	5.63	75	51242	6.380	ug/l #	49
38) Carbon Tetrachloride	5.63	117	49089	6.151	ug/l #	14
44) Trichloroethene	6.98	130	190609	33.179	ug/l	93
51) 4-Methyl-2-Pentanone	8.70	43	6401	1.609	ug/l #	1
64) Tetrachloroethene	9.51	164	5453	1.016	ug/l	93
65) Chlorobenzene	10.72	112	37043	3.104	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.93	75	181170	147.845	ug/l #	1
82) 4-Chlorotoluene	12.32	91	1207	Below Cal	#	45
88) 1,4-Dichlorobenzene	12.92	146	14536	1.389	ug/l	94
91) 1,2-Dichlorobenzene	13.19	146	51338	5.631	ug/l	99

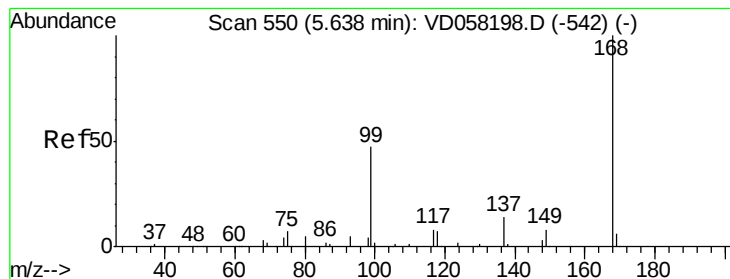
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 20 05:52:56 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 550

Delta R.T. 0.00 min

Lab File: VD058304.D

Acq: 22 Jun 2018 18:51

Instrument :

MSVOA_D

ClientSampleId :

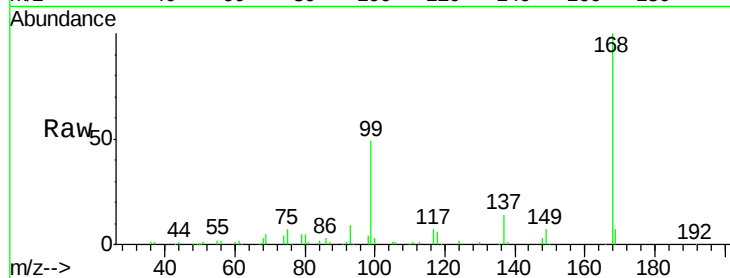
WP021SB472-30-32-180618

Tot Ion:168 Resp: 616167

Ion Ratio Lower Upper

168 100

99 48.5 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.64

250000

200000

150000

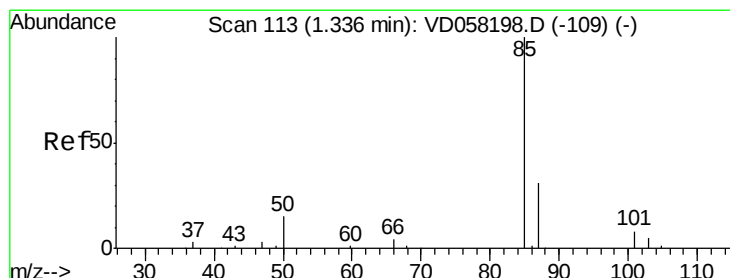
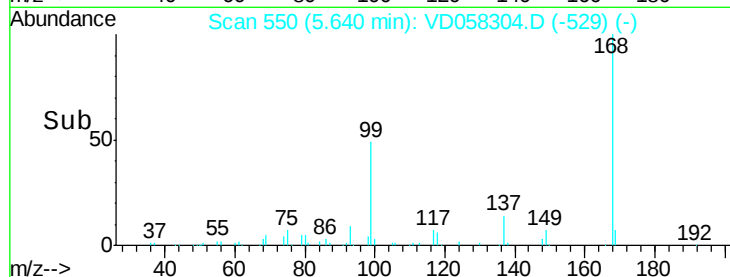
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.33 min Scan# 112

Delta R.T. -0.01 min

Lab File: VD058304.D

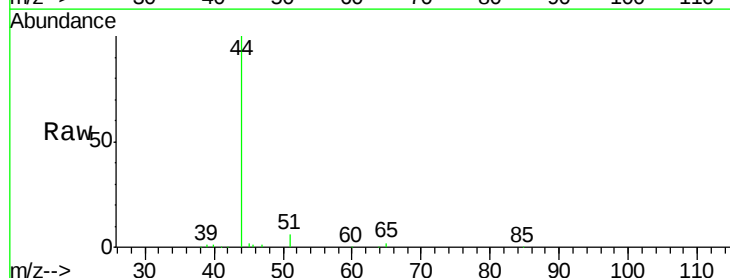
Acq: 22 Jun 2018 18:51

Tgt Ion: 85 Resp: 224

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

1.33

400

300

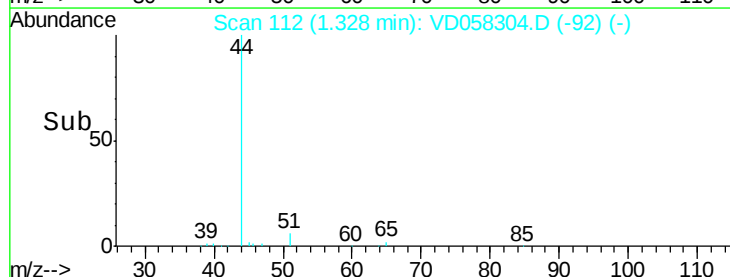
200

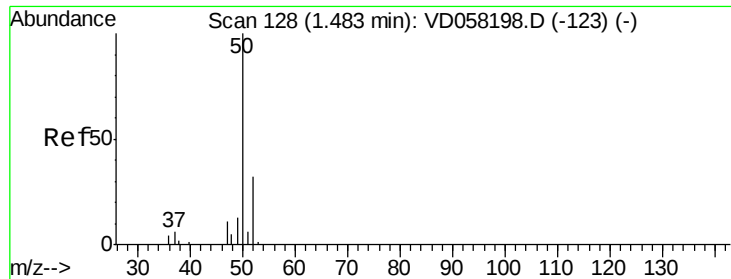
100

0

Time-->

1.30 1.32 1.34 1.36





#3

Chloromethane

Concen: Below Cal

RT: 1.52 min Scan# 131

Delta R.T. 0.03 min

Lab File: VD058304.D

Acq: 22 Jun 2018 18:51

Instrument :

MSVOA_D

ClientSampleId :

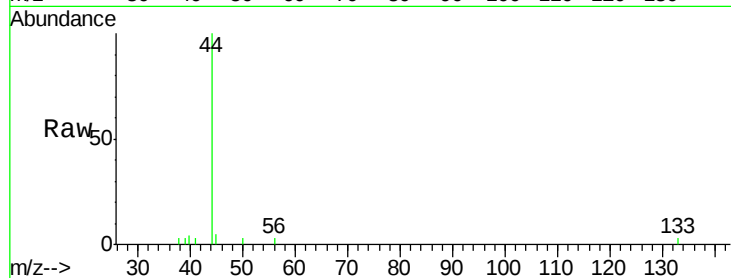
WP021SB472-30-32-180618

Tot Ion: 50 Resp: 211

Ion Ratio Lower Upper

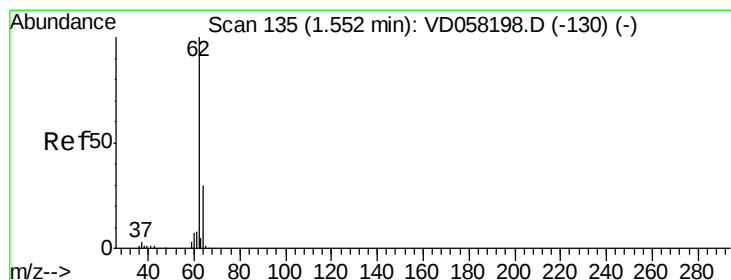
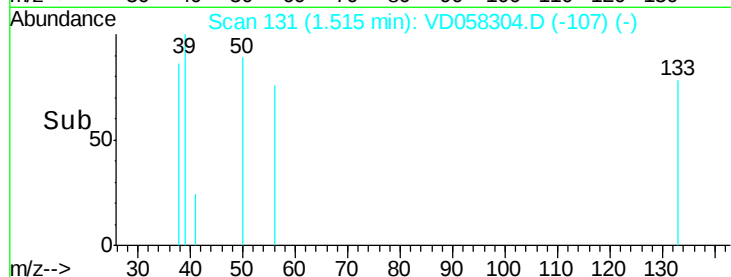
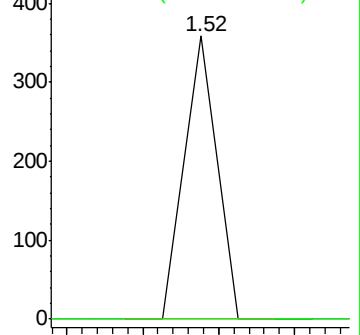
50 100

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



#4

Vinyl Chloride

Concen: 1.498 ug/l

RT: 1.54 min Scan# 134

Delta R.T. -0.01 min

Lab File: VD058304.D

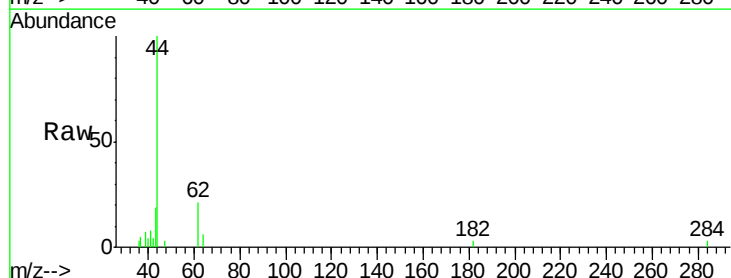
Acq: 22 Jun 2018 18:51

Tgt Ion: 62 Resp: 4836

Ion Ratio Lower Upper

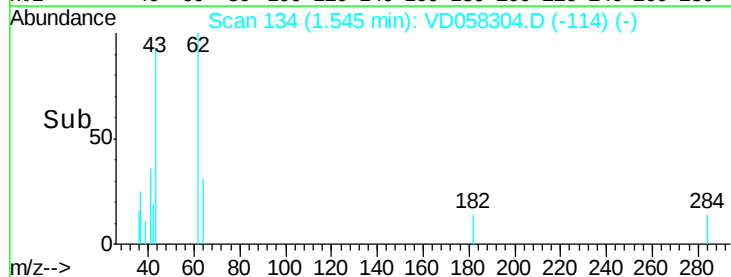
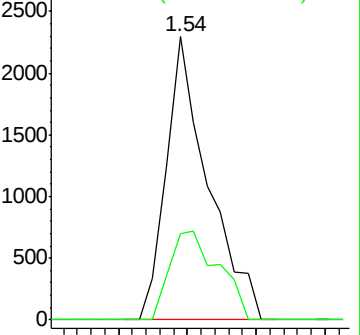
62 100

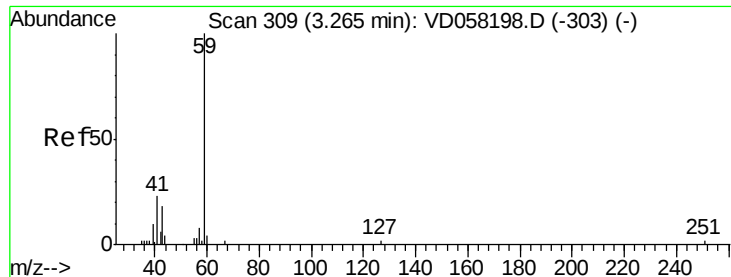
64 30.6 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC



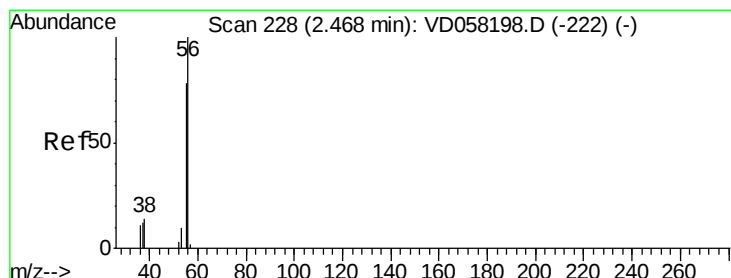
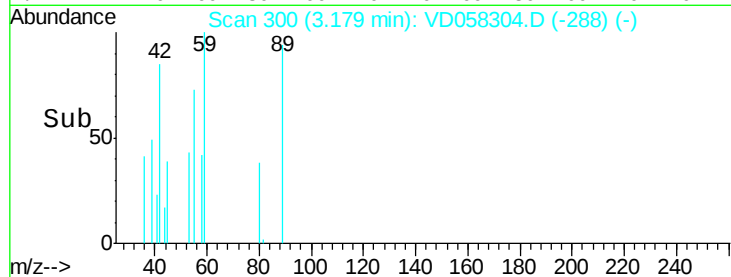
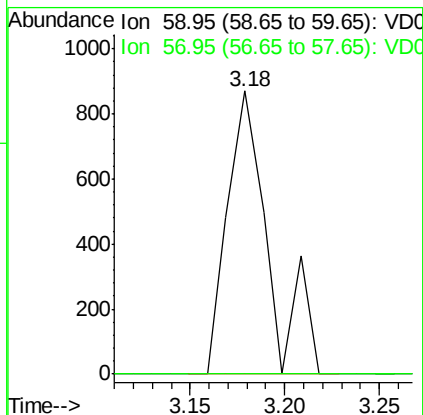
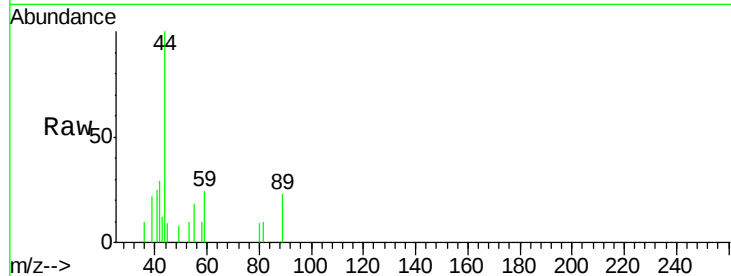


#11

Tert butyl alcohol
 Concen: 6.362 ug/l
 RT: 3.18 min Scan# 300
 Delta R.T. -0.09 min
 Lab File: VD058304.D
 Acq: 22 Jun 2018 18:51

Instrument :
 MSVOA_D
 ClientSampleId :
 WP021SB472-30-32-180618

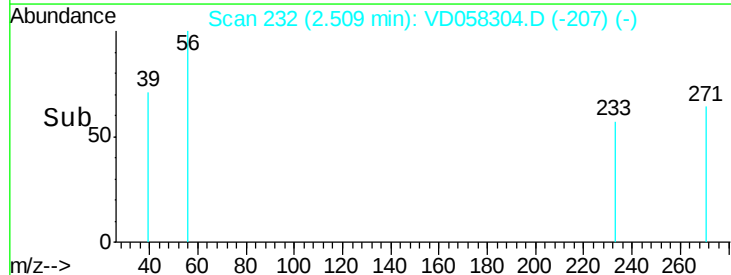
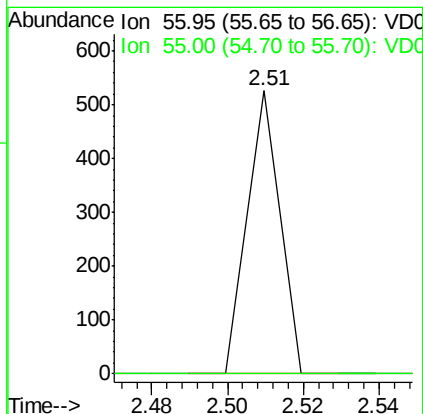
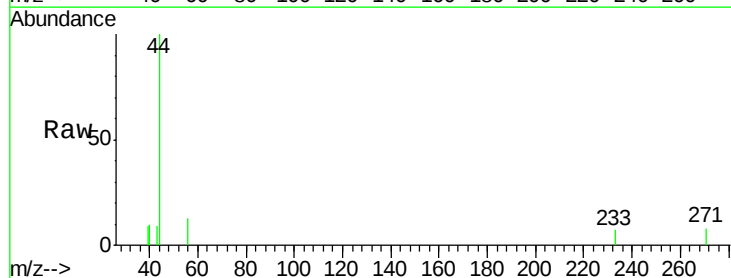
Tot Ion: 59 Resp: 1306
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.2 9.4#

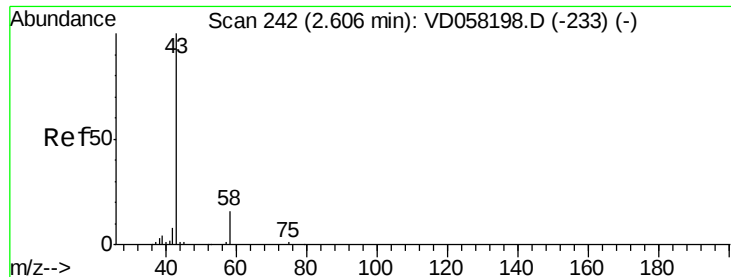


#13

Acrolein
 Concen: 2.654 ug/l
 RT: 2.51 min Scan# 232
 Delta R.T. 0.04 min
 Lab File: VD058304.D
 Acq: 22 Jun 2018 18:51

Tgt Ion: 56 Resp: 311
 Ion Ratio Lower Upper
 56 100
 55 0.0 62.1 93.1#





#16

Acetone

Concen: 50.943 ug/l

RT: 2.61 min Scan# 242

Delta R.T. 0.00 min

Lab File: VD058304.D

Acq: 22 Jun 2018 18:51

Instrument :

MSVOA_D

ClientSampleId :

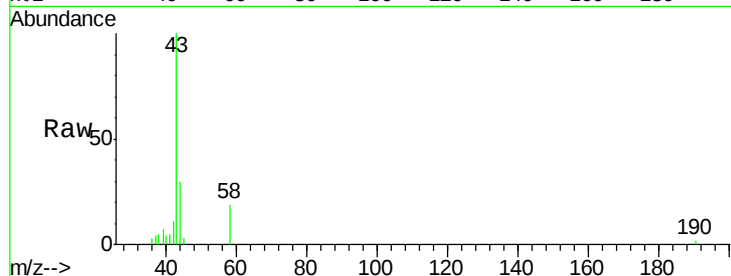
WP021SB472-30-32-180618

Tot Ion: 43 Resp: 43360

Ion Ratio Lower Upper

43 100

58 18.5 12.7 19.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

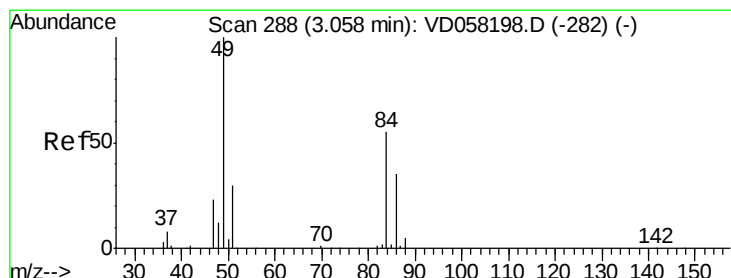
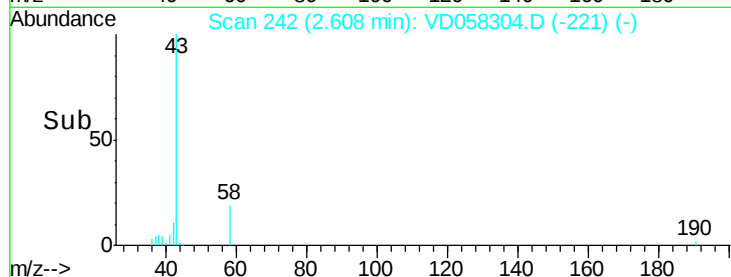
15000

10000

5000

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 3.06 min Scan# 288

Delta R.T. 0.00 min

Lab File: VD058304.D

Acq: 22 Jun 2018 18:51

Tgt Ion: 84 Resp: 7885

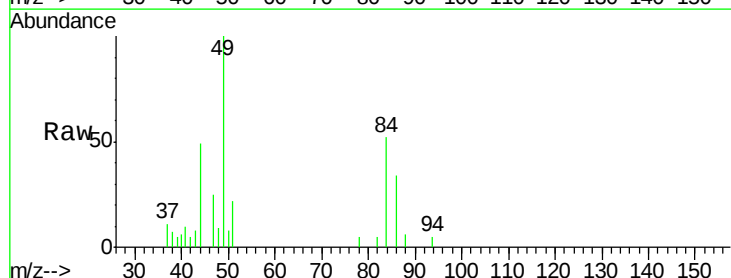
Ion Ratio Lower Upper

84 100

49 191.8 145.0 217.6

51 43.1 42.9 64.3

86 65.7 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

10000

8000

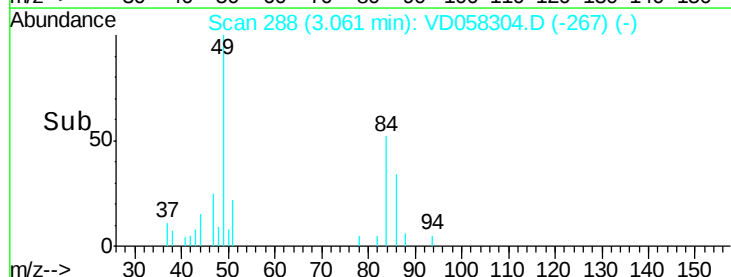
6000

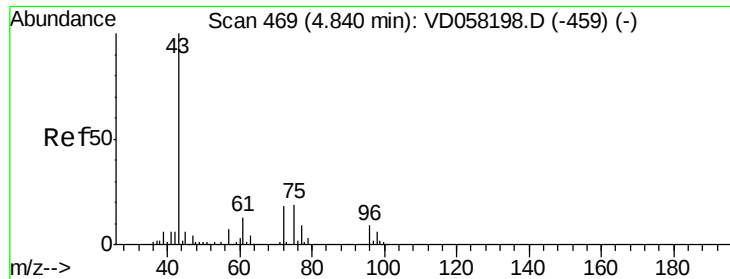
4000

2000

0

Time-->





#25

2-Butanone

Concen: 2.923 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD058304.D

Acq: 22 Jun 2018 18:51

Instrument :

MSVOA_D

ClientSampleId :

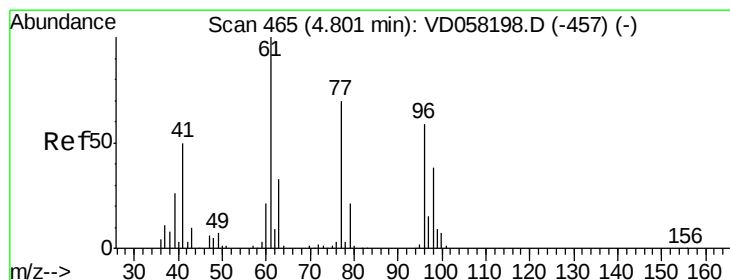
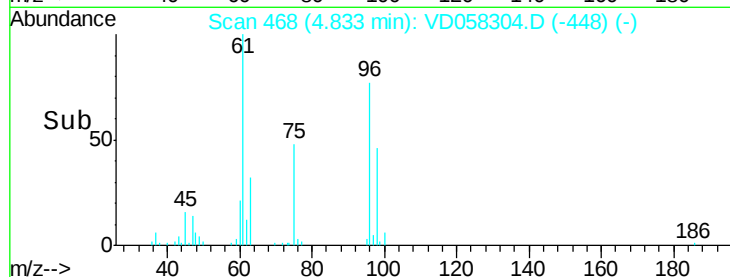
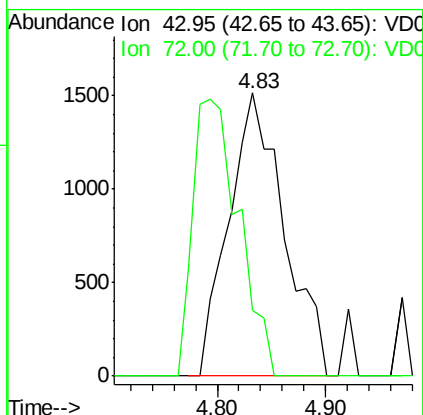
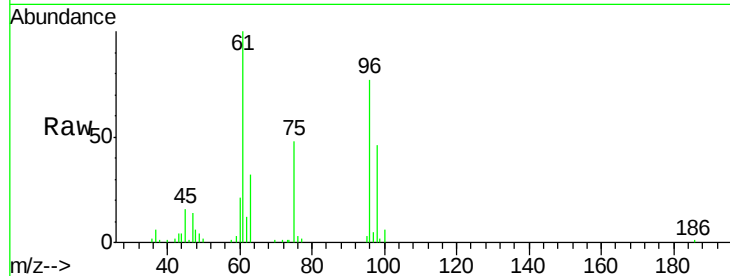
WP021SB472-30-32-180618

Tot Ion: 43 Resp: 5423

Ion Ratio Lower Upper

43 100

72 23.2 14.1 21.1#



#27

cis-1,2-Dichloroethene

Concen: 74.569 ug/l

RT: 4.79 min Scan# 464

Delta R.T. -0.01 min

Lab File: VD058304.D

Acq: 22 Jun 2018 18:51

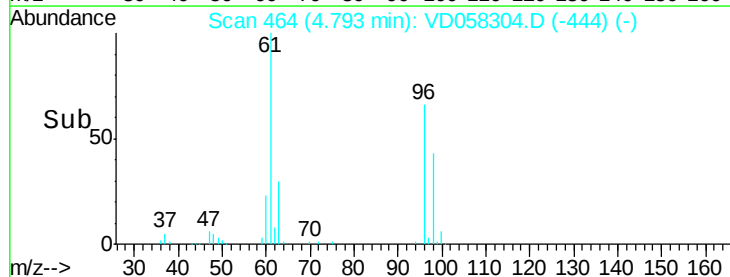
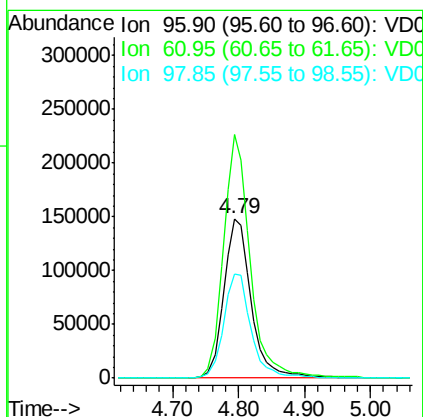
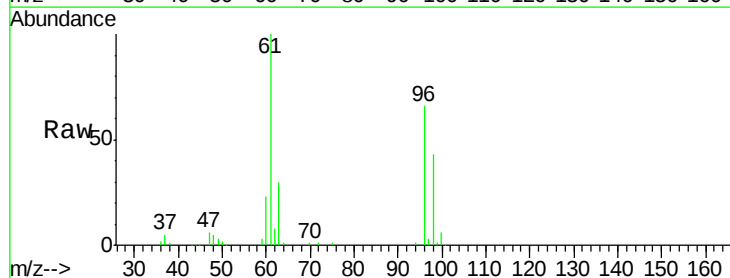
Tgt Ion: 96 Resp: 431110

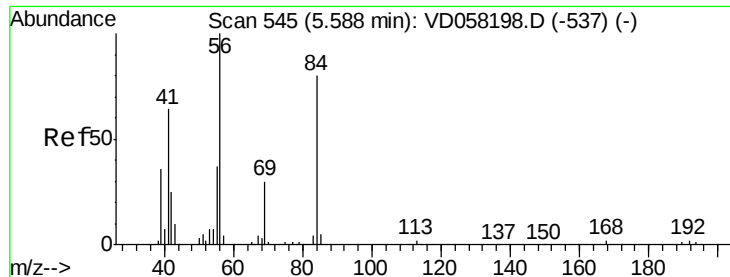
Ion Ratio Lower Upper

96 100

61 152.4 0.0 338.6

98 64.9 0.0 130.2

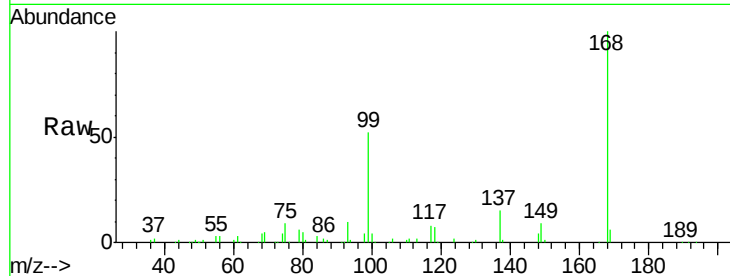




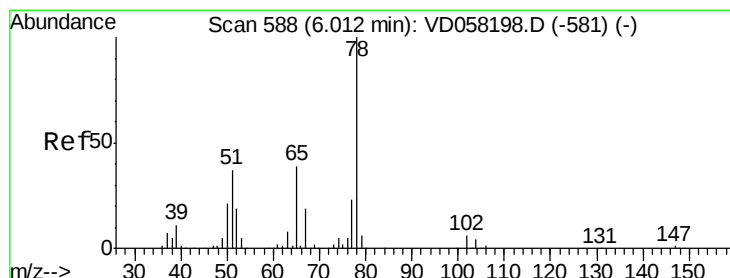
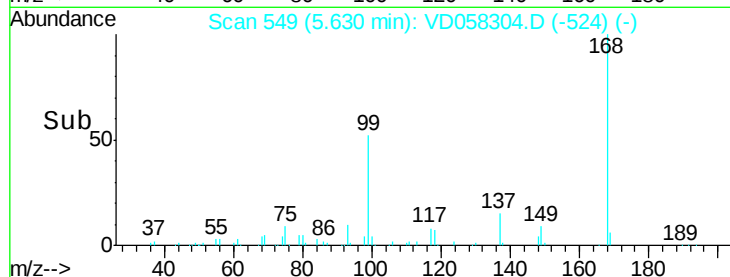
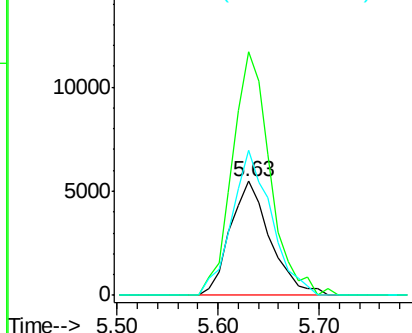
#31
Cyclohexane
Concen: Below Cal
RT: 5.63 min Scan# 549
Delta R.T. 0.04 min
Lab File: VD058304.D
Acq: 22 Jun 2018 18:51

Instrument :
MSVOA_D
ClientSampleId :
WP021SB472-30-32-180618

Tot Ion: 56 Resp: 15154
Ion Ratio Lower Upper
56 100
69 213.4 23.6 35.4#
84 127.4 65.2 97.8#

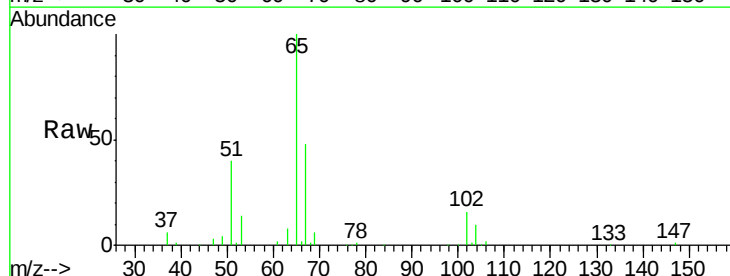


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

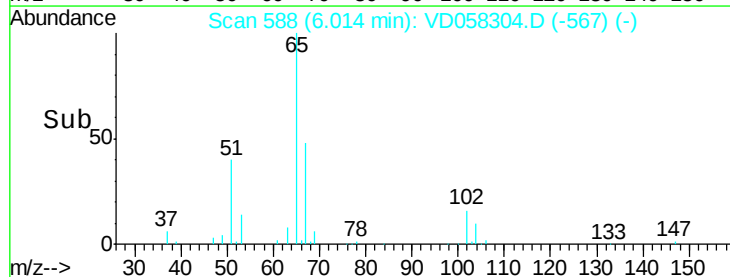
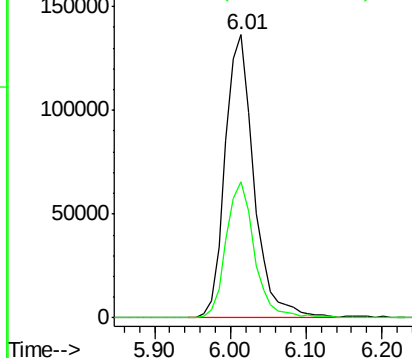


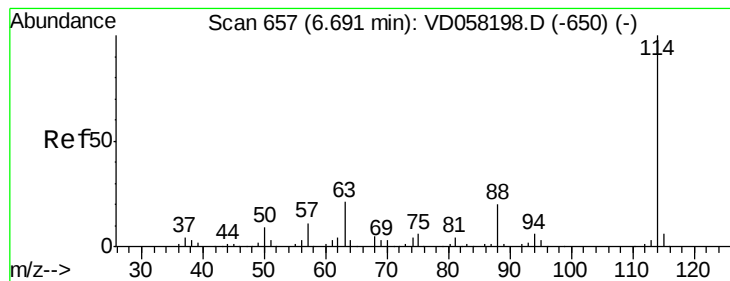
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.01 min Scan# 588
Delta R.T. 0.00 min
Lab File: VD058304.D
Acq: 22 Jun 2018 18:51

Tgt Ion: 65 Resp: 360001
Ion Ratio Lower Upper
65 100
67 47.9 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: 50.000 ug/l

RT: 6.68 min Scan# 656

Delta R.T. -0.01 min

Lab File: VD058304.D

Acq: 22 Jun 2018 18:51

Instrument :

MSVOA_D

ClientSampleId :

WP021SB472-30-32-180618

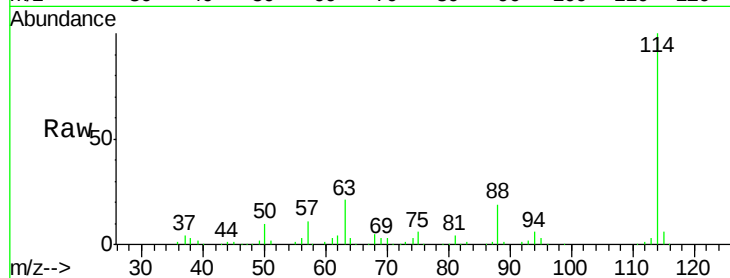
Tot Ion:114 Resp: 811856

Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.6

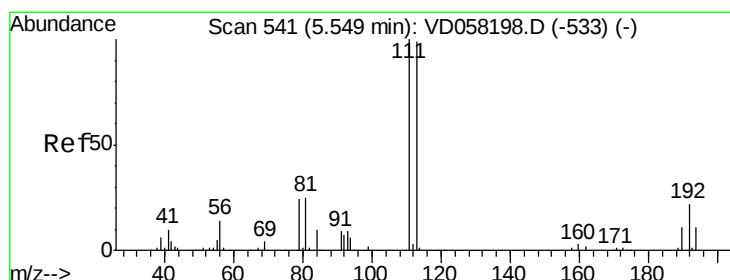
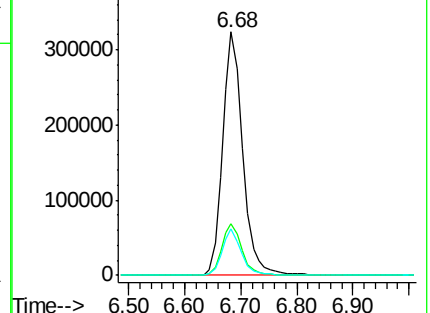
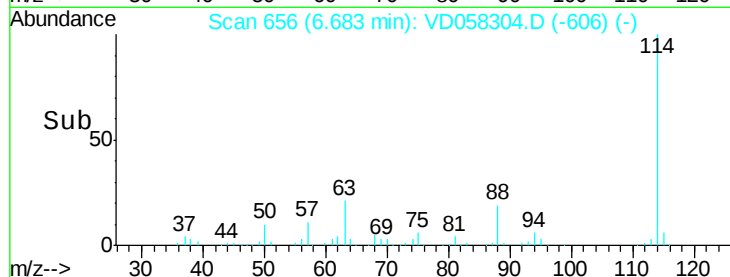
88 19.2 0.0 40.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.54 min Scan# 540

Delta R.T. -0.01 min

Lab File: VD058304.D

Acq: 22 Jun 2018 18:51

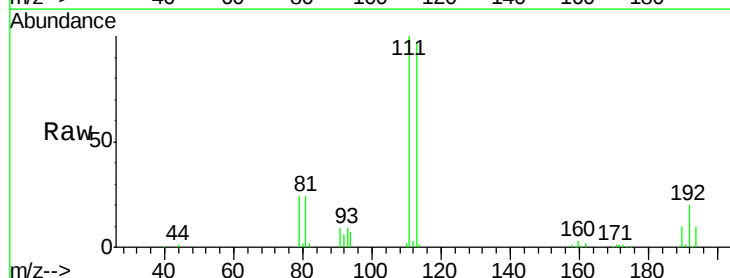
Tgt Ion:113 Resp: 380352

Ion Ratio Lower Upper

113 100

111 102.7 80.6 121.0

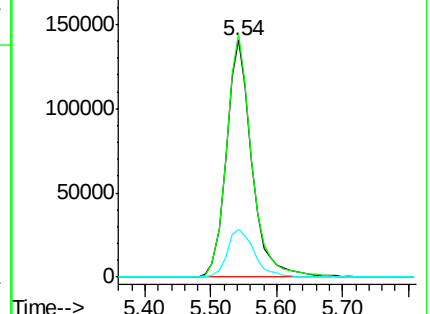
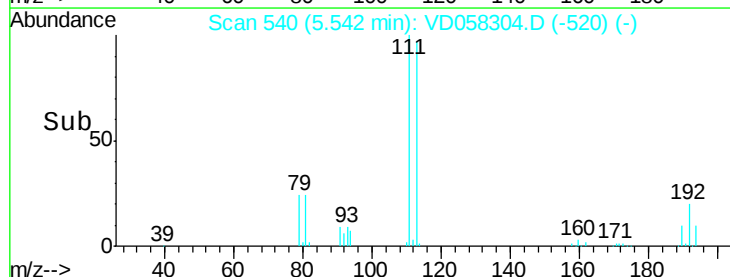
192 20.1 17.8 26.6

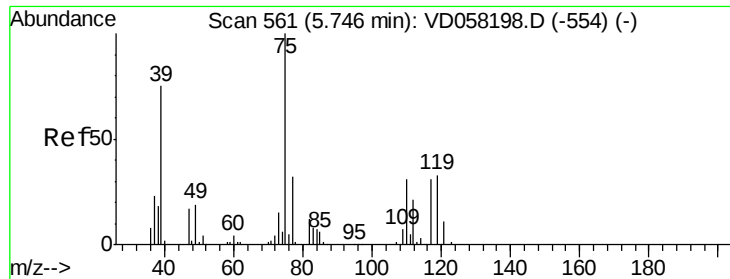


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 6.380 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.12 min

Lab File: VD058304.D

Acq: 22 Jun 2018 18:51

Instrument :

MSVOA_D

ClientSampleId :

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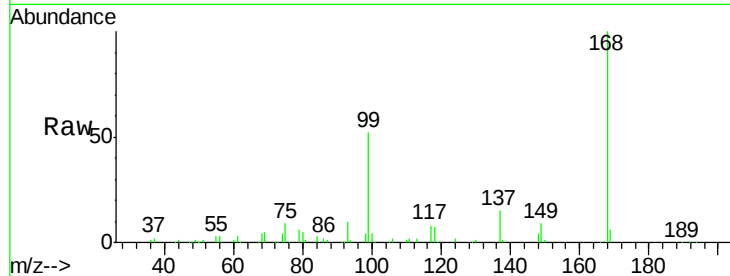
Tot Ion: 75 Resp: 51242

Ion Ratio Lower Upper

75 100

110 6.9 15.4 46.4#

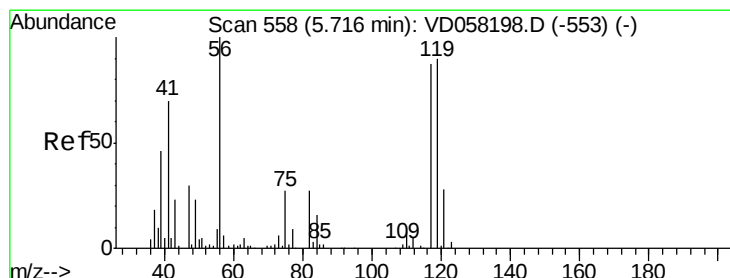
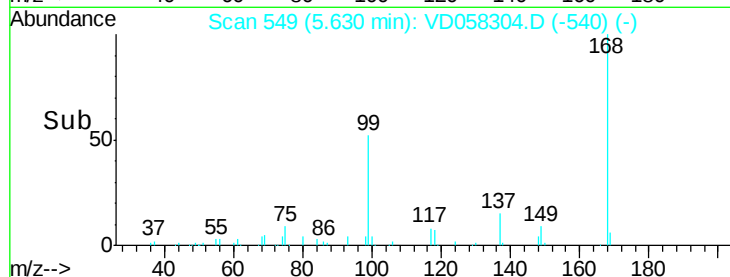
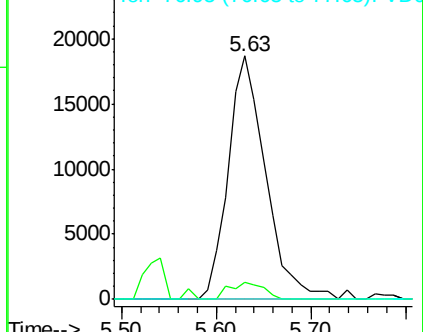
77 0.0 25.4 38.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#38

Carbon Tetrachloride

Concen: 6.151 ug/l

RT: 5.63 min Scan# 549

Delta R.T. -0.09 min

Lab File: VD058304.D

Acq: 22 Jun 2018 18:51

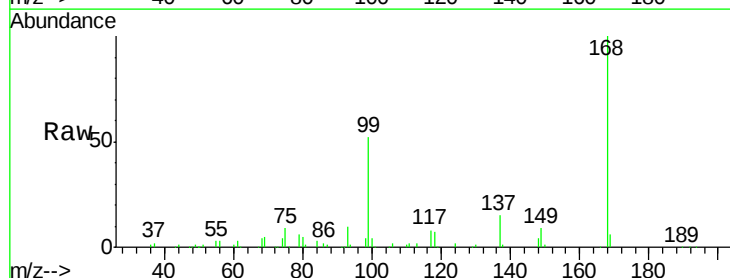
Tgt Ion: 117 Resp: 49089

Ion Ratio Lower Upper

117 100

119 4.6 78.8 118.2#

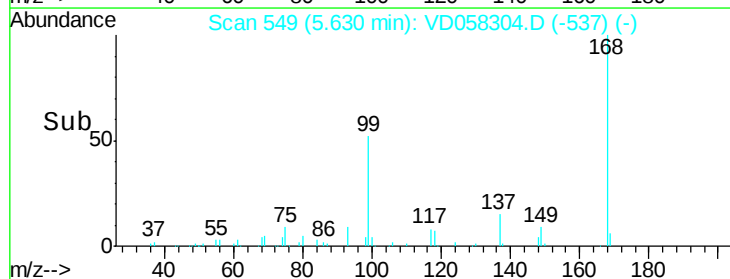
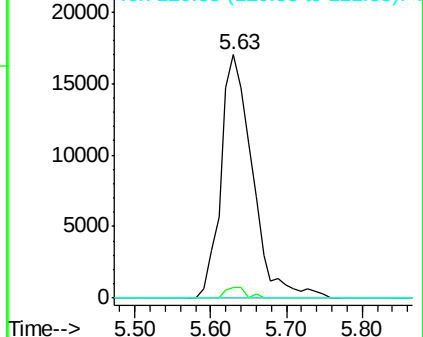
121 0.0 25.0 37.6#

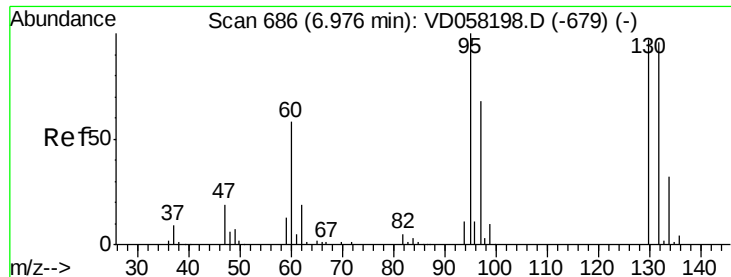


Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 118.85 (118.55 to 119.55): VDC

Ion 120.85 (120.55 to 121.55): VDC





#44

Trichloroethene

Concen: 33.179 ug/l

RT: 6.98 min Scan# 686

Delta R.T. 0.00 min

Lab File: VD058304.D

Acq: 22 Jun 2018 18:51

Instrument :

MSVOA_D

ClientSampleId :

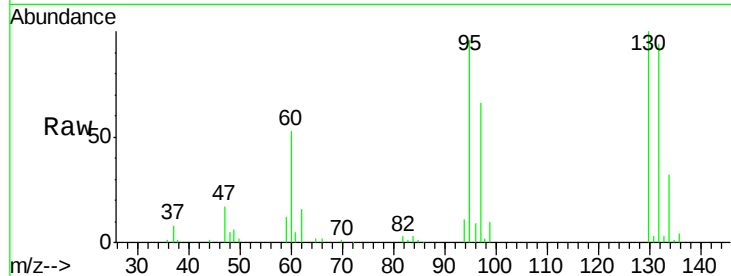
WP021SB472-30-32-180618

Tot Ion:130 Resp: 190609

Ion Ratio Lower Upper

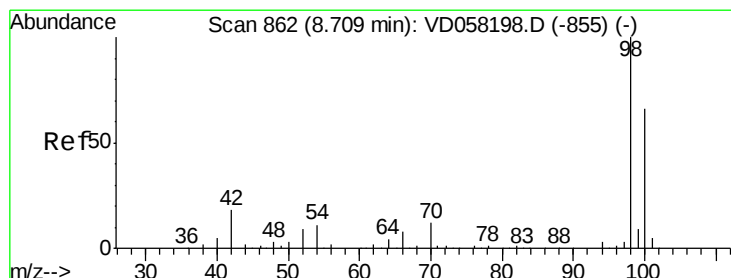
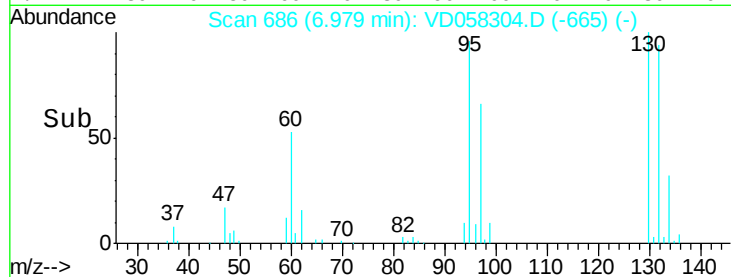
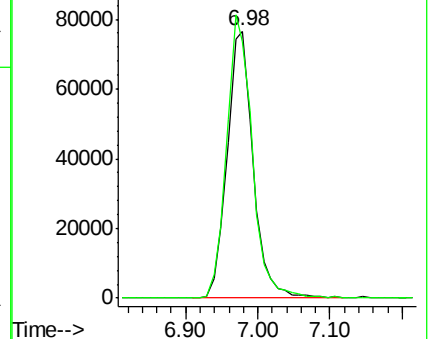
130 100

95 95.9 0.0 205.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.70 min Scan# 861

Delta R.T. -0.01 min

Lab File: VD058304.D

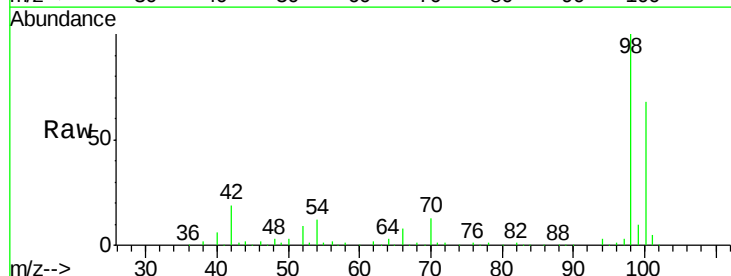
Acq: 22 Jun 2018 18:51

Tgt Ion: 98 Resp: 845780

Ion Ratio Lower Upper

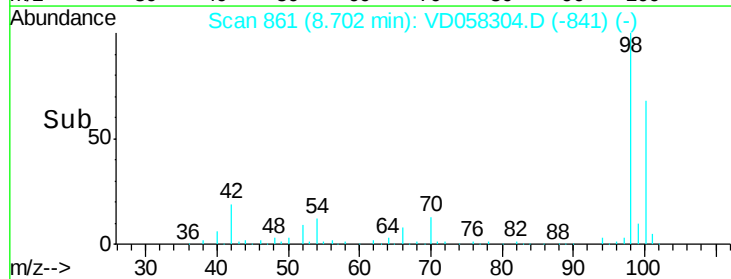
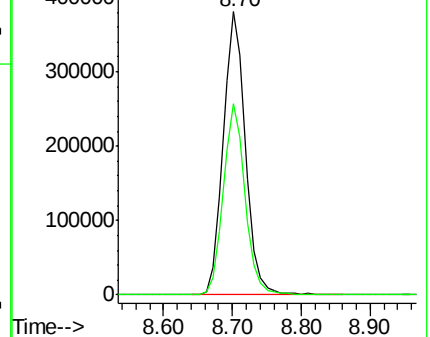
98 100

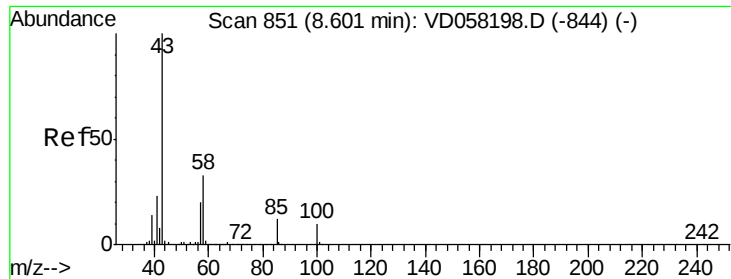
100 67.6 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 1.609 ug/l

RT: 8.70 min Scan# 861

Delta R.T. 0.10 min

Lab File: VD058304.D

Acq: 22 Jun 2018 18:51

Instrument :

MSVOA_D

ClientSampleId :

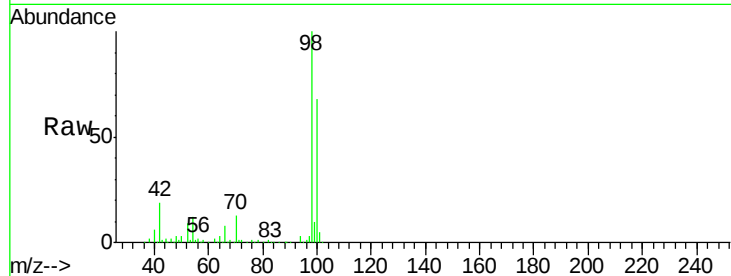
WP021SB472-30-32-180618

Tot Ion: 43 Resp: 6401

Ion Ratio Lower Upper

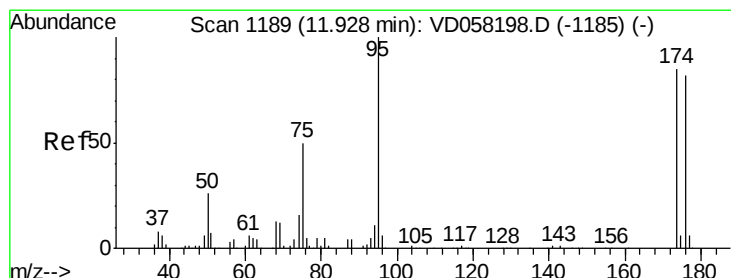
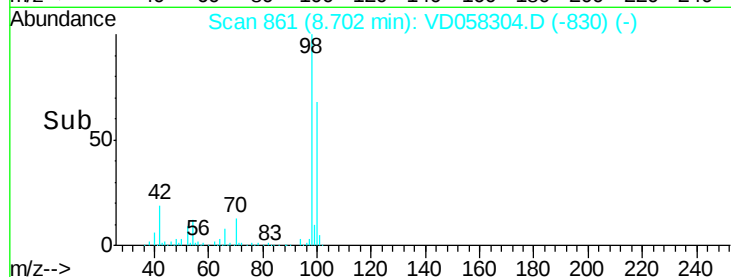
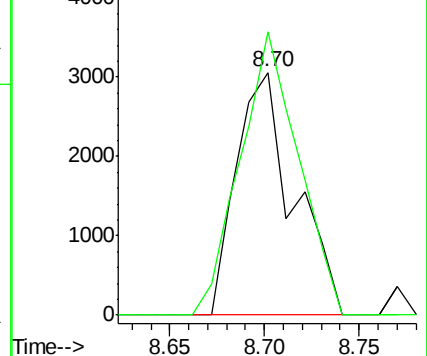
43 100

58 116.6 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: 11.93 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VD058304.D

Acq: 22 Jun 2018 18:51

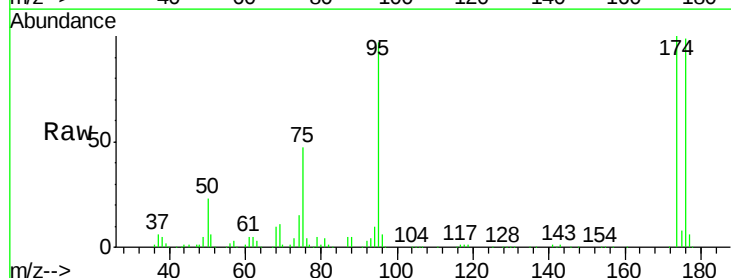
Tgt Ion: 95 Resp: 375072

Ion Ratio Lower Upper

95 100

174 103.0 0.0 170.2

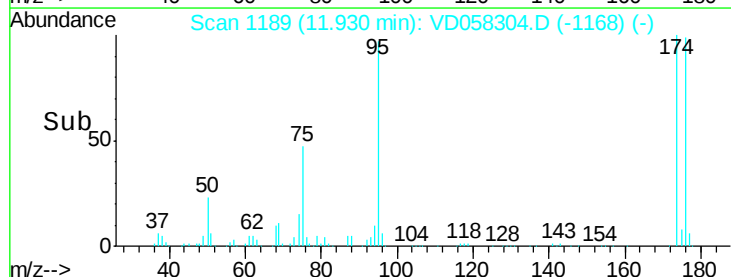
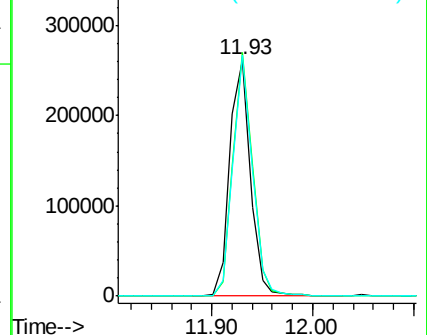
176 102.0 0.0 164.6

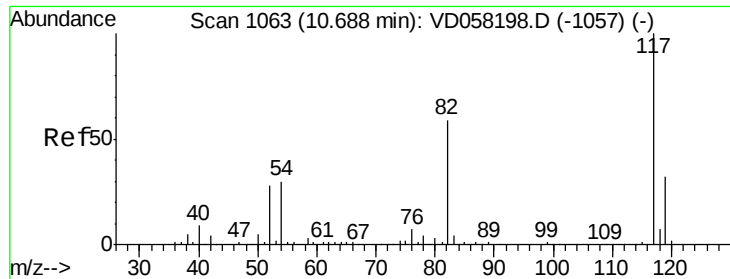


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.69 min Scan# 1063

Delta R.T. 0.00 min

Lab File: VD058304.D

Acq: 22 Jun 2018 18:51

Instrument :

MSVOA_D

ClientSampleId :

WP021SB472-30-32-180618

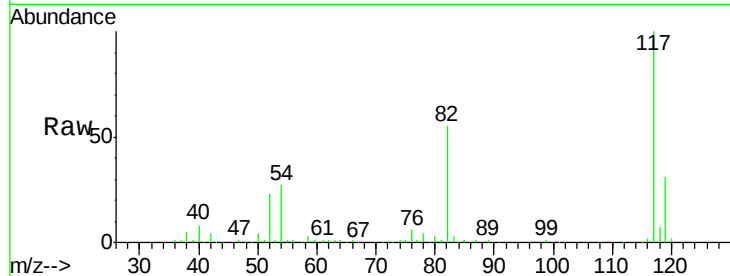
Tot Ion:117 Resp: 638040

Ion Ratio Lower Upper

117 100

82 55.3 47.0 70.6

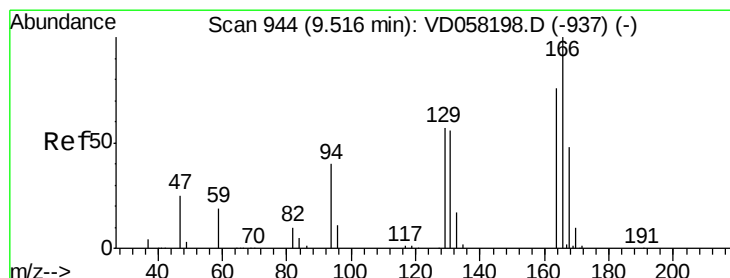
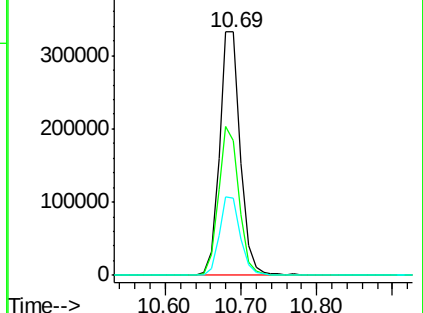
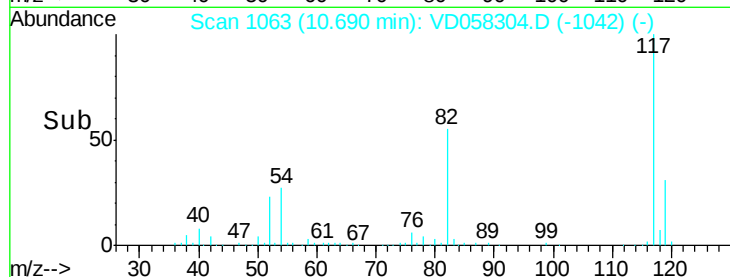
119 31.5 25.3 37.9



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



#64

Tetrachloroethene

Concen: 1.016 ug/l

RT: 9.51 min Scan# 943

Delta R.T. -0.01 min

Lab File: VD058304.D

Acq: 22 Jun 2018 18:51

Tgt Ion:164 Resp: 5453

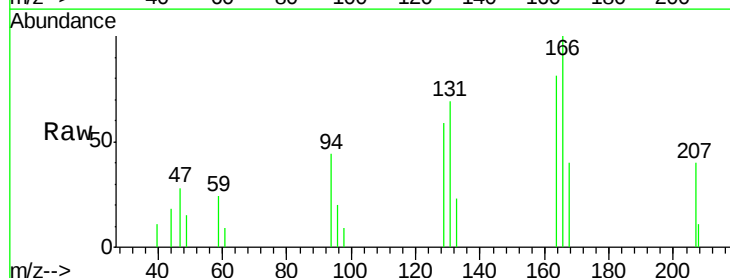
Ion Ratio Lower Upper

164 100

166 123.3 105.4 158.0

129 72.7 59.6 89.4

131 85.0 59.4 89.2

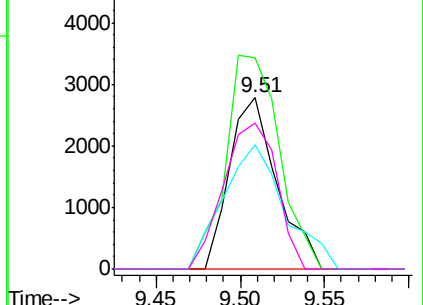
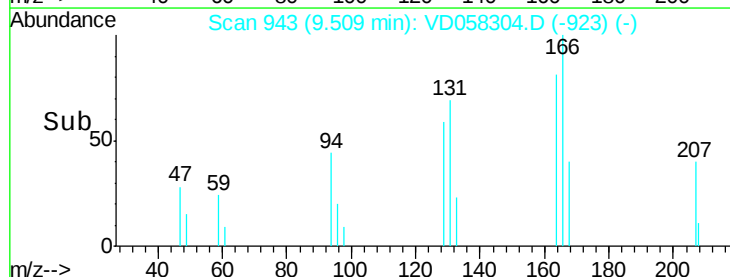


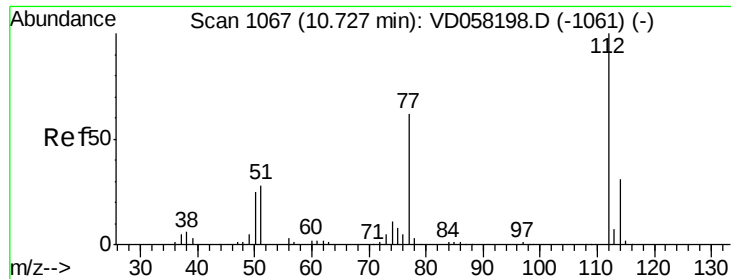
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

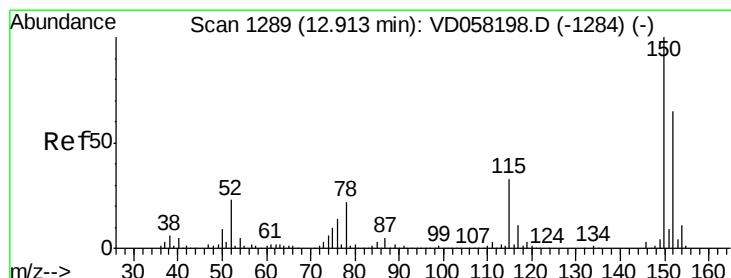
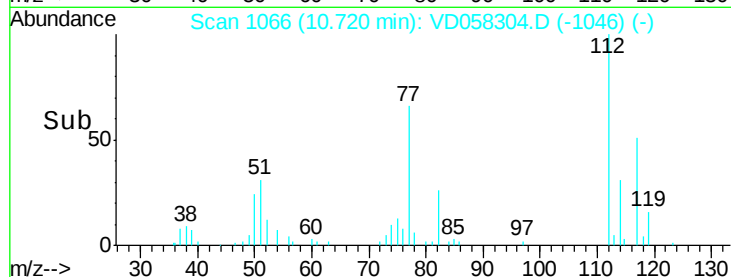
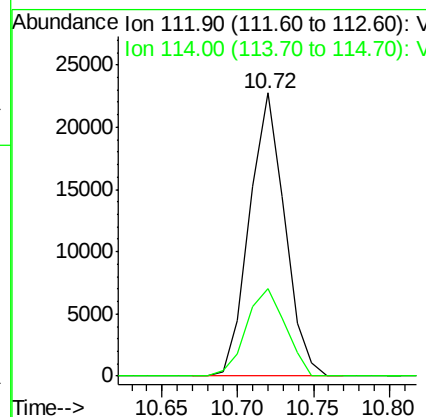
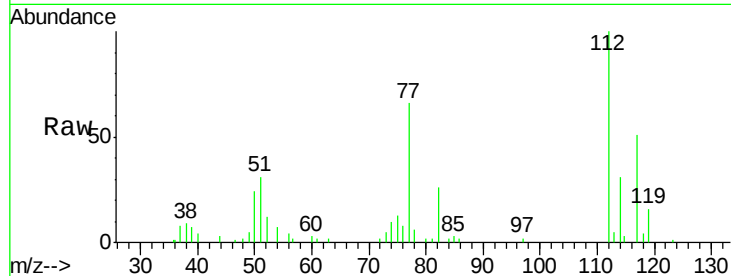




#65
Chlorobenzene
Concen: 3.104 ug/l
RT: 10.72 min Scan# 1066
Delta R.T. -0.01 min
Lab File: VD058304.D
Acq: 22 Jun 2018 18:51

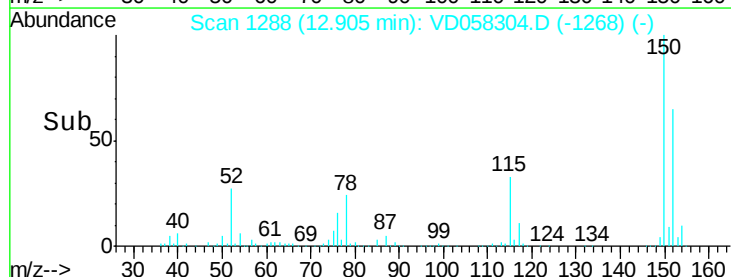
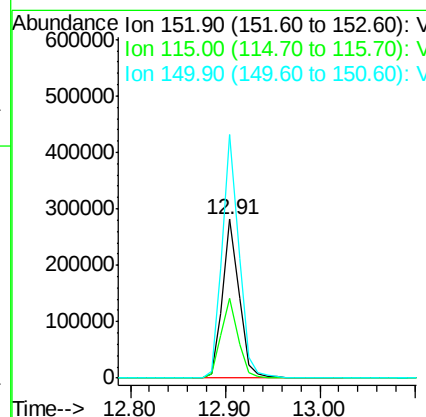
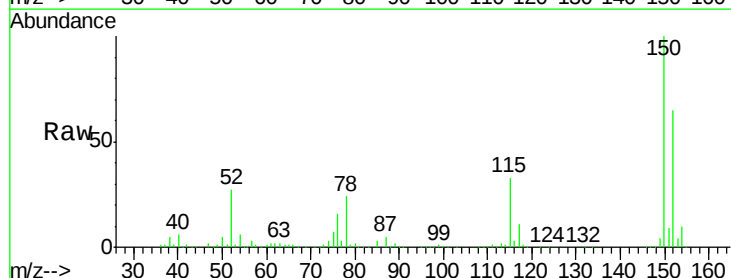
Instrument :
MSVOA_D
ClientSampleId :
WP021SB472-30-32-180618

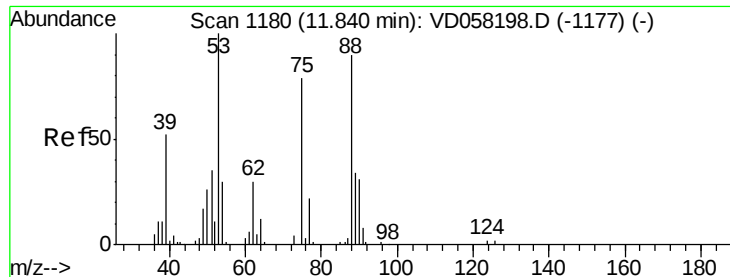
Tot Ion:112 Resp: 37043
Ion Ratio Lower Upper
112 100
114 31.0 25.0 37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.91 min Scan# 1288
Delta R.T. -0.01 min
Lab File: VD058304.D
Acq: 22 Jun 2018 18:51

Tgt Ion:152 Resp: 344127
Ion Ratio Lower Upper
152 100
115 50.0 25.1 75.3
150 153.5 0.0 308.8





#81

trans-1,4-Dichloro-2-butene

Concen: 147.845 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058304.D

Acq: 22 Jun 2018 18:51

Instrument :

MSVOA_D

ClientSampleId :

WP021SB472-30-32-180618

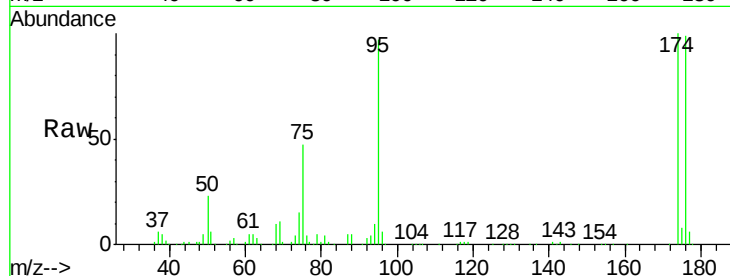
Tot Ion: 75 Resp: 181170

Ion Ratio Lower Upper

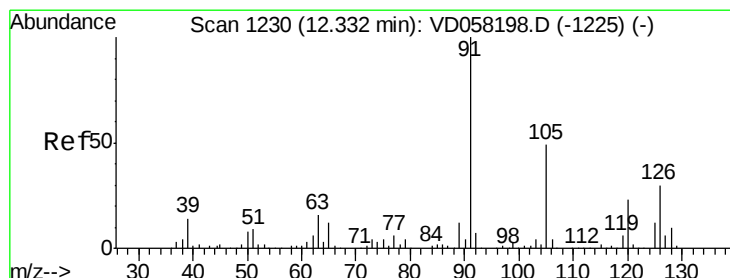
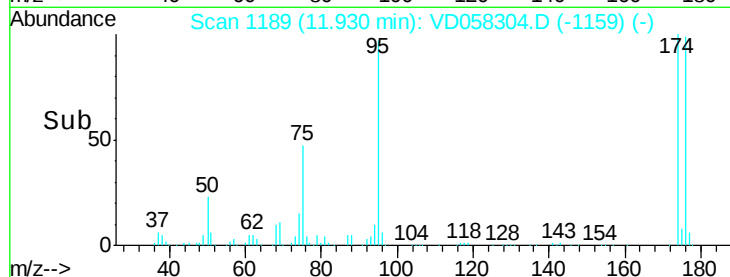
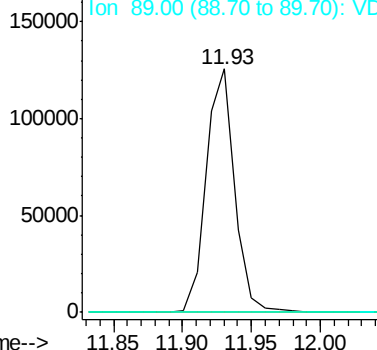
75 100

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: VD058304.D

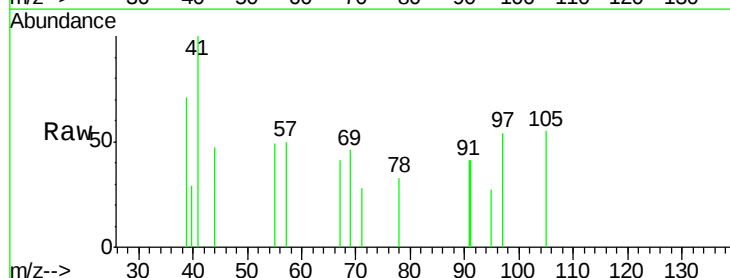
Acq: 22 Jun 2018 18:51

Tgt Ion: 91 Resp: 1207

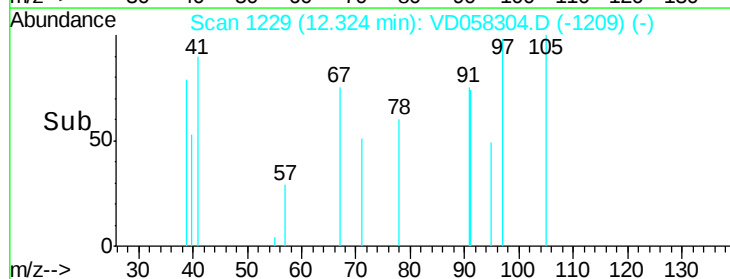
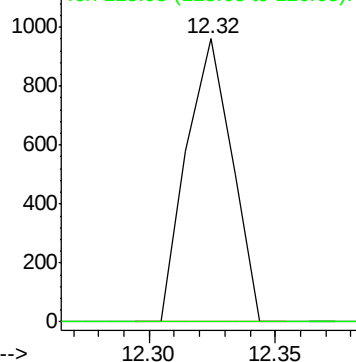
Ion Ratio Lower Upper

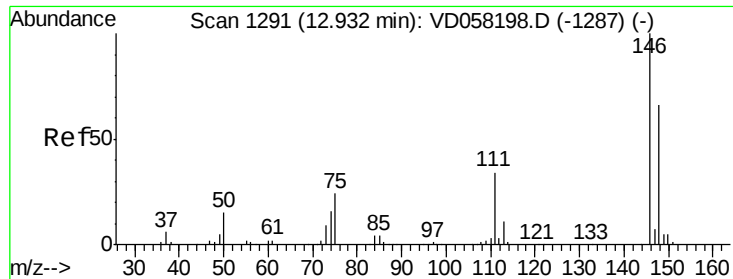
91 100

126 0.0 14.9 44.9#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V





#88

1,4-Dichlorobenzene

Concen: 1.389 ug/l

RT: 12.92 min Scan# 1290

Delta R.T. -0.01 min

Lab File: VD058304.D

Acq: 22 Jun 2018 18:51

Instrument :

MSVOA_D

ClientSampleId :

WP021SB472-30-32-180618

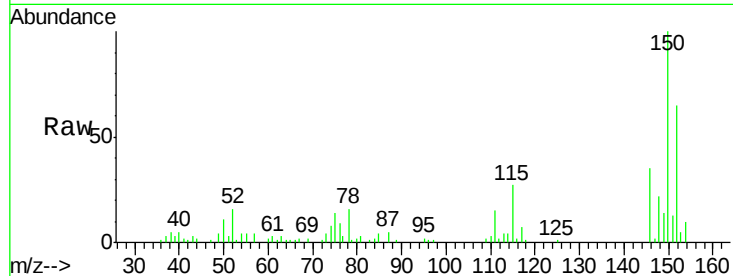
Tot Ion:146 Resp: 14536

Ion Ratio Lower Upper

146 100

111 41.9 17.2 51.5

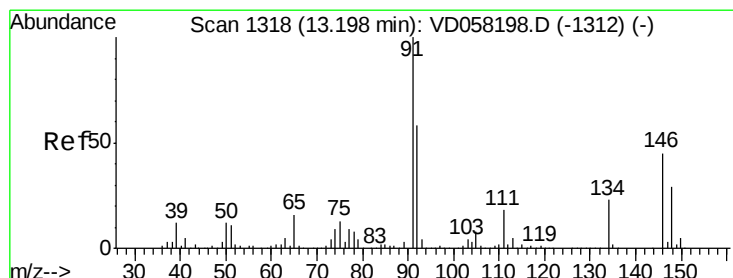
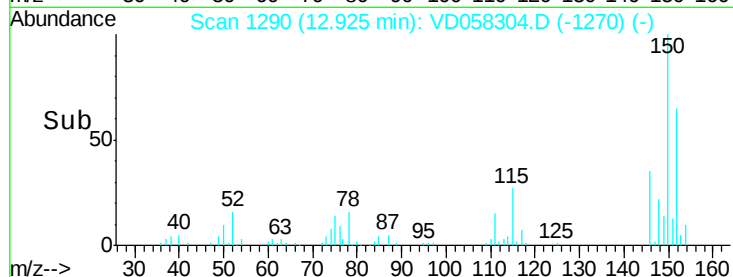
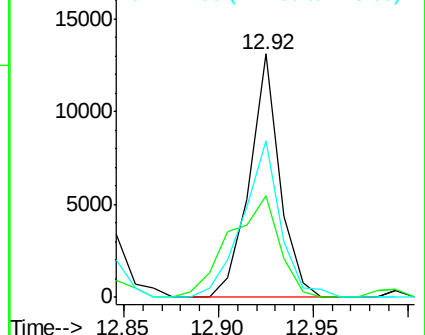
148 64.2 33.1 99.3



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: 5.631 ug/l

RT: 13.19 min Scan# 1317

Delta R.T. -0.01 min

Lab File: VD058304.D

Acq: 22 Jun 2018 18:51

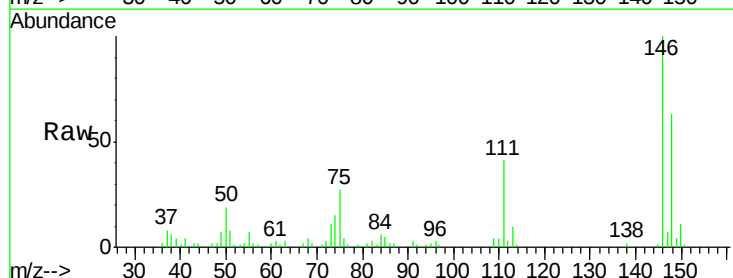
Tgt Ion:146 Resp: 51338

Ion Ratio Lower Upper

146 100

111 40.5 19.6 58.7

148 63.5 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

