

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062018\
 Data File : VD058235.D
 Acq On : 21 Jun 2018 5:03
 Operator : VA/AP
 Sample : J3603-01
 Misc : 8.22g/5ml/MSVOA D/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 BFB

Quant Time: Jun 21 05:50:44 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	5323	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	6.70	114	8036	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.70	117	7511	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.91	152	2820	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.02	65	3741	69.58	ug/l	0.01
Spiked Amount	50.000		Recovery	=	139.16%	
35) Dibromofluoromethane	5.56	113	2867	43.83	ug/l	0.01
Spiked Amount	50.000		Recovery	=	87.66%	
50) Toluene-d8	8.72	98	8160	51.57	ug/l	0.01
Spiked Amount	50.000		Recovery	=	103.14%	
62) 4-Bromofluorobenzene	11.94	95	2972	45.98	ug/l	0.01
Spiked Amount	50.000		Recovery	=	91.96%	

Target Compounds

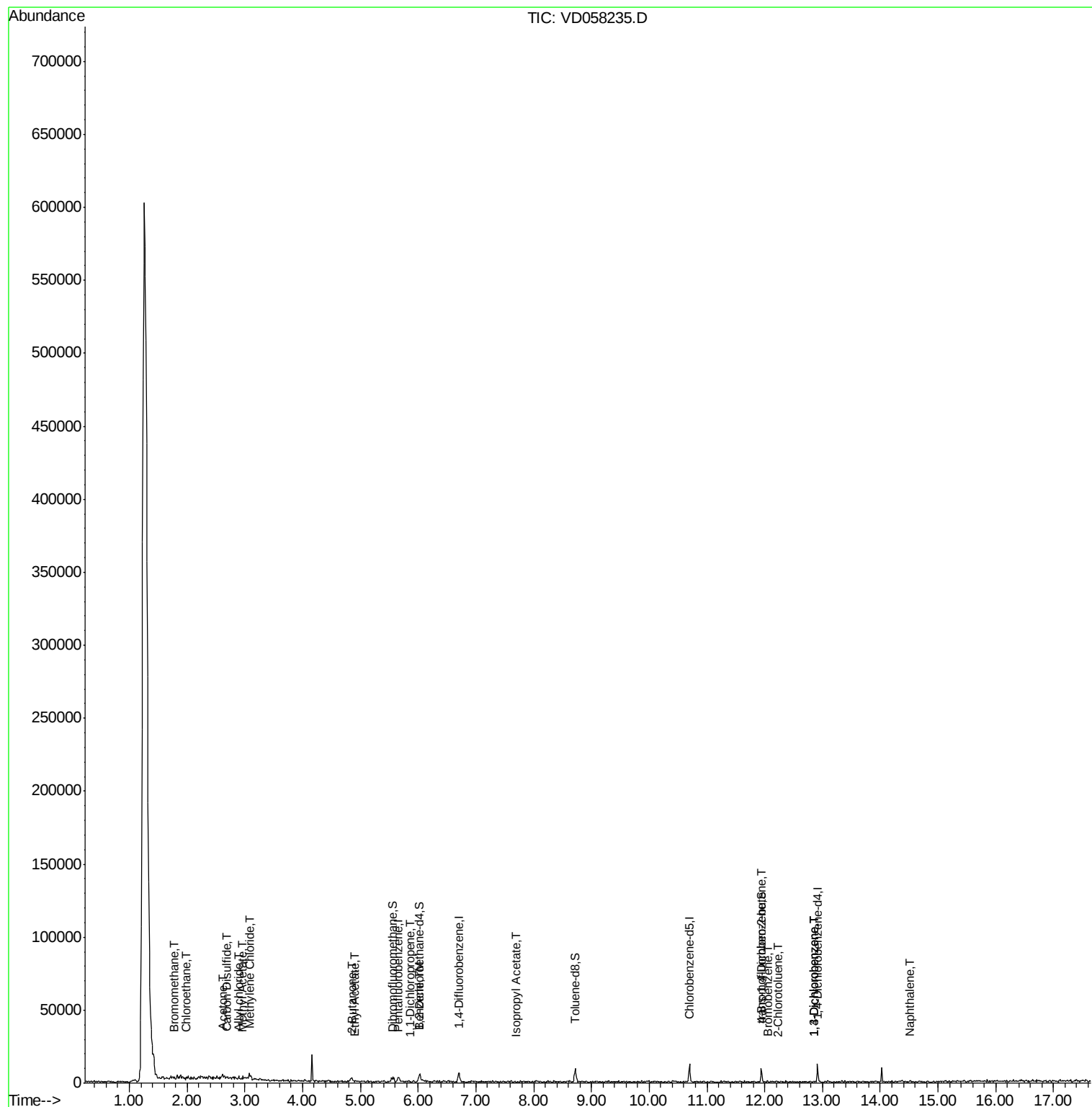
						Qvalue
5) Bromomethane	1.78	94	213	20.285	ug/l #	3
6) Chloroethane	1.98	64	192	17.690	ug/l #	41
14) Allyl chloride	2.89	41	247	5.803	ug/l #	87
16) Acetone	2.62	43	3664	498.303	ug/l #	29
17) Carbon Disulfide	2.68	76	189	3.038	ug/l #	76
18) Methyl Acetate	2.95	43	203	12.945	ug/l #	65
20) Methylene Chloride	3.09	84	223	7.574	ug/l #	1
25) 2-Butanone	4.86	43	1360	84.862	ug/l #	60
36) 1,1-Dichloropropene	5.87	75	242	3.044	ug/l #	43
37) Ethyl Acetate	4.91	43	230	5.078	ug/l #	72
40) Benzene	6.02	78	221	1.167	ug/l #	1
43) Isopropyl Acetate	7.71	43	249	4.123	ug/l #	48
77) Bromobenzene	12.05	156	210	4.158	ug/l #	1
79) 2-Chlorotoluene	12.23	91	178	1.428	ug/l #	45
81) trans-1,4-Dichloro-2-buten	11.94	75	1233	122.787	ug/l #	1
82) 4-Chlorotoluene	12.23	91	178	Below Cal	#	45
87) 1,3-Dichlorobenzene	12.84	146	242	2.757	ug/l #	25
88) 1,4-Dichlorobenzene	12.84	146	242	2.823	ug/l #	25
95) Naphthalene	14.52	128	353	3.750	ug/l #	70

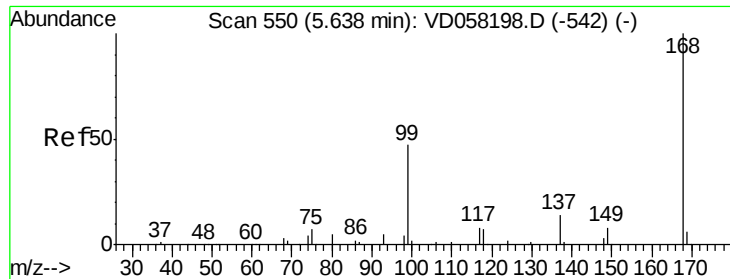
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 552

Delta R.T. 0.02 min

Lab File: VD058235.D

Acq: 21 Jun 2018 5:03

Instrument :

MSVOA_D

ClientSampleId :

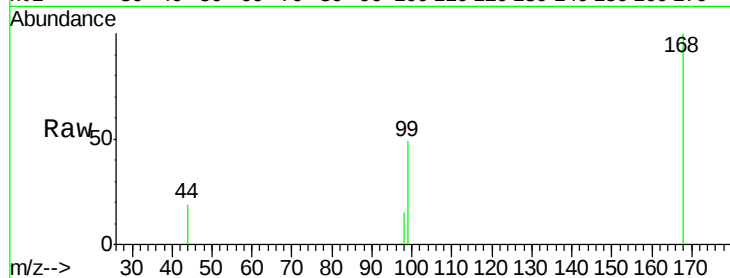
BFB

Tot Ion:168 Resp: 5323

Ion Ratio Lower Upper

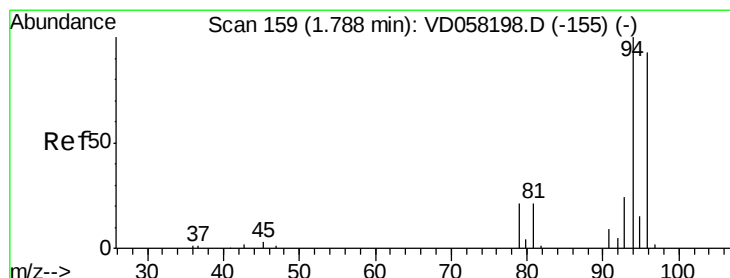
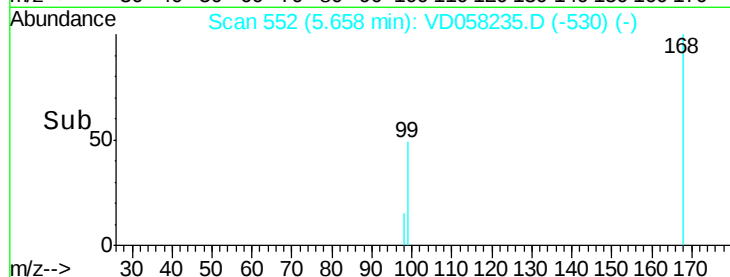
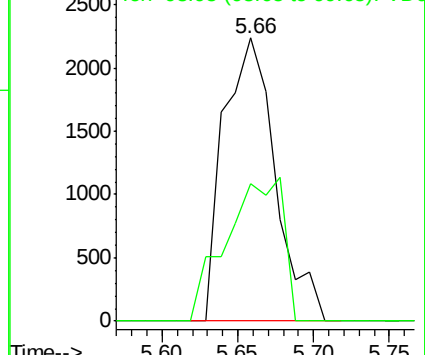
168 100

99 48.6 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 20.285 ug/l

RT: 1.78 min Scan# 158

Delta R.T. -0.01 min

Lab File: VD058235.D

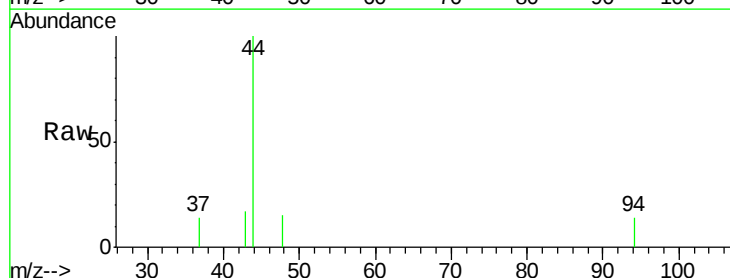
Acq: 21 Jun 2018 5:03

Tgt Ion: 94 Resp: 213

Ion Ratio Lower Upper

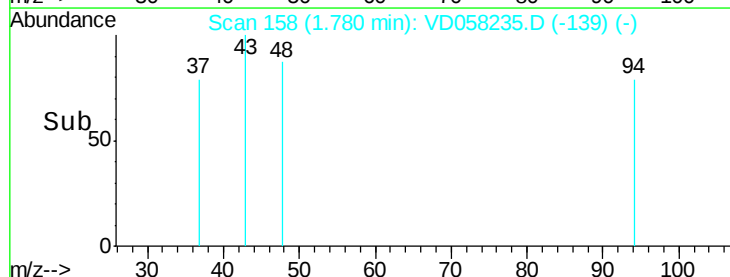
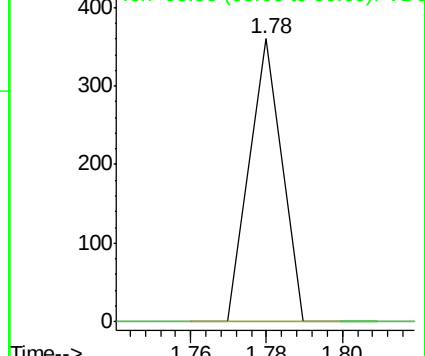
94 100

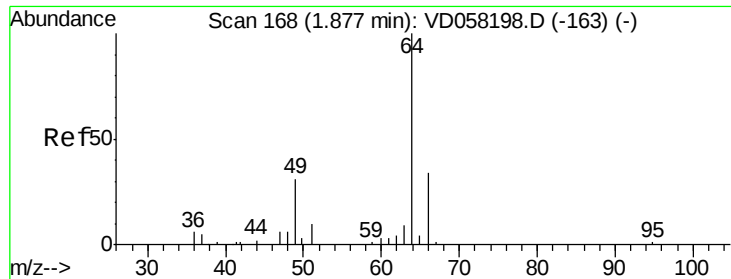
96 0.0 74.2 111.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#6

Chloroethane

Concen: 17.690 ug/l

RT: 1.98 min Scan# 178

Delta R.T. 0.10 min

Lab File: VD058235.D

Acq: 21 Jun 2018 5:03

Instrument :

MSVOA_D

ClientSampleId :

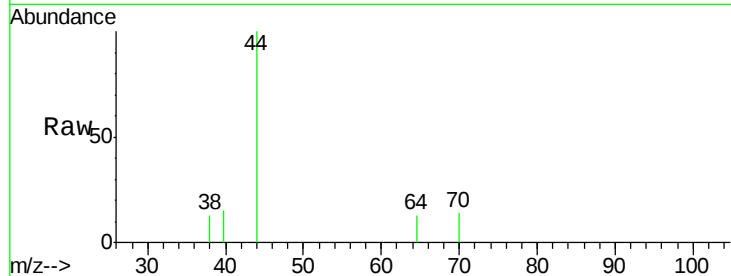
BFB

Tot Ion: 64 Resp: 192

Ion Ratio Lower Upper

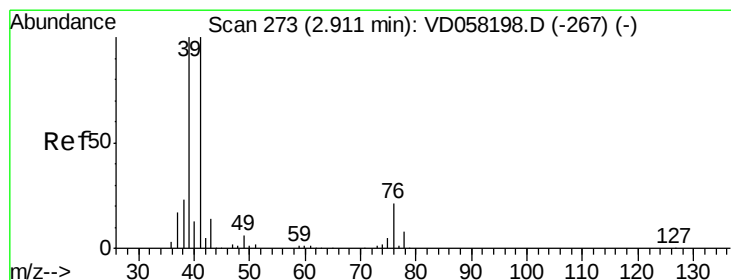
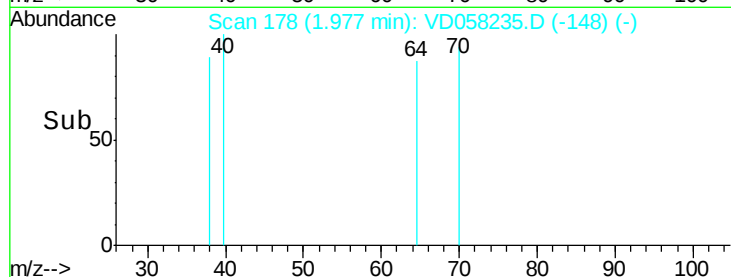
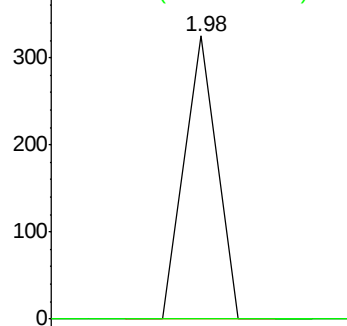
64 100

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



#14

Allyl chloride

Concen: 5.803 ug/l

RT: 2.89 min Scan# 271

Delta R.T. -0.02 min

Lab File: VD058235.D

Acq: 21 Jun 2018 5:03

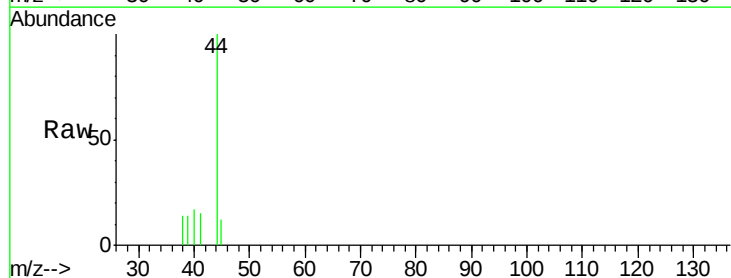
Tgt Ion: 41 Resp: 247

Ion Ratio Lower Upper

41 100

39 96.4 80.1 120.1

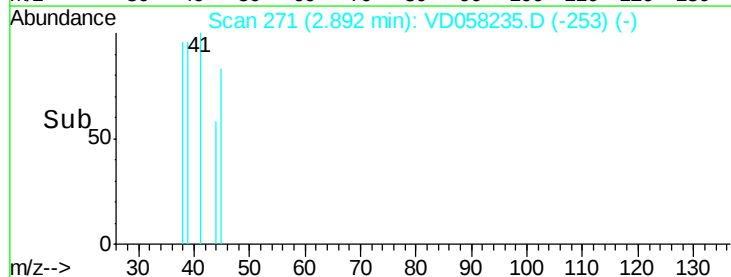
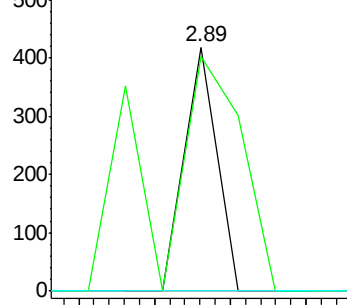
76 0.0 19.4 29.2#

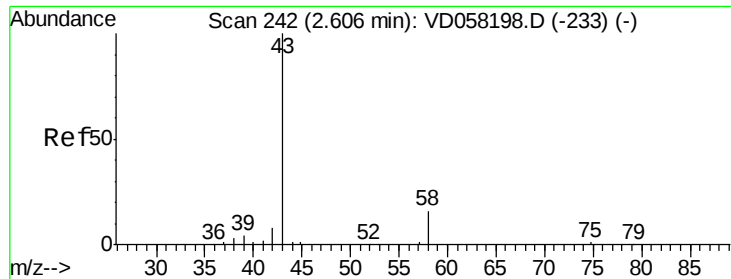


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#16

Acetone

Concen: 498.303 ug/l

RT: 2.62 min Scan# 243

Delta R.T. 0.01 min

Lab File: VD058235.D

Acq: 21 Jun 2018 5:03

Instrument :

MSVOA_D

ClientSampleId :

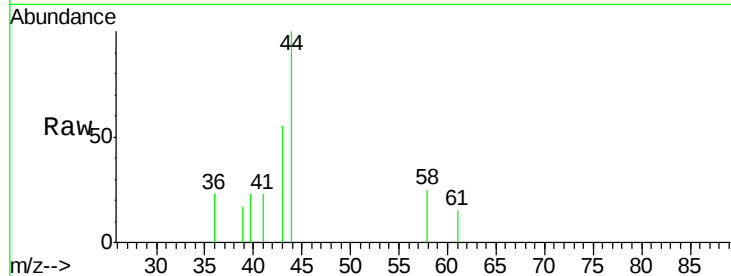
BFB

Tot Ion: 43 Resp: 3664

Ion Ratio Lower Upper

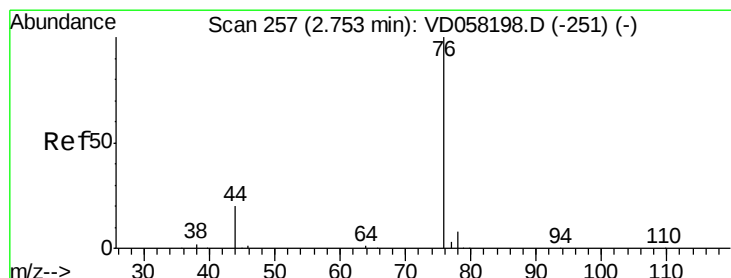
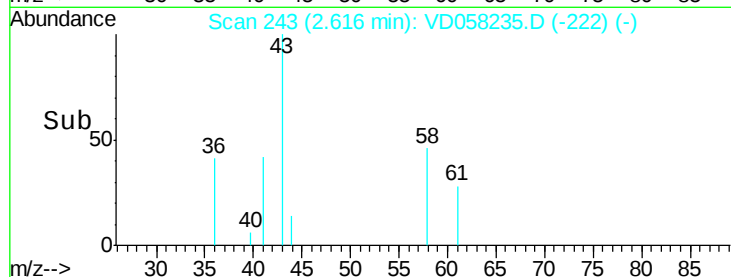
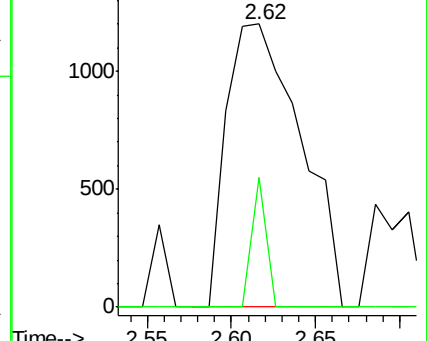
43 100

58 45.9 12.7 19.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#17

Carbon Disulfide

Concen: 3.038 ug/l

RT: 2.68 min Scan# 249

Delta R.T. -0.08 min

Lab File: VD058235.D

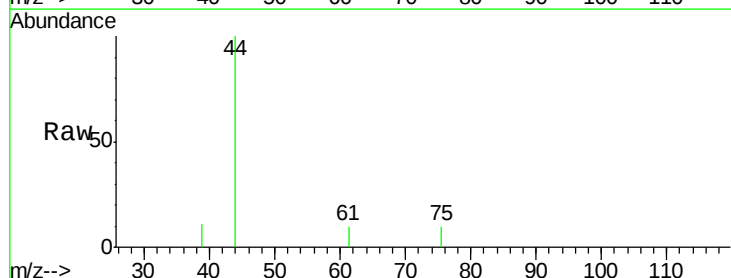
Acq: 21 Jun 2018 5:03

Tgt Ion: 76 Resp: 189

Ion Ratio Lower Upper

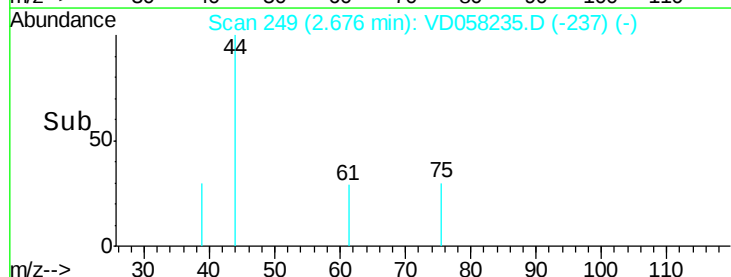
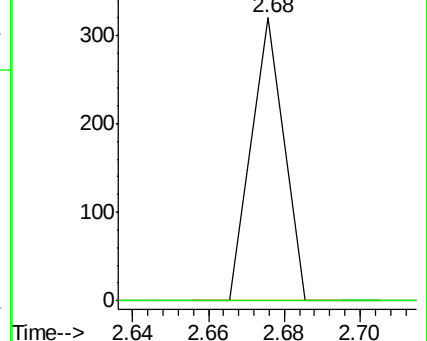
76 100

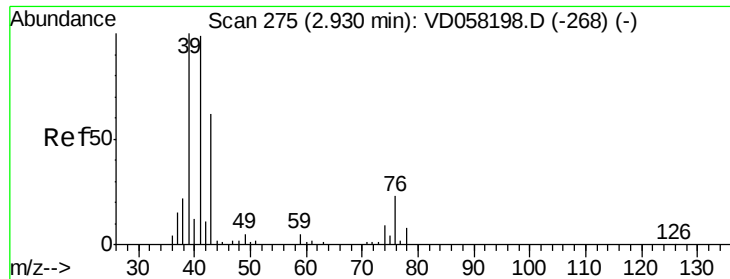
78 0.0 6.8 10.2#



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

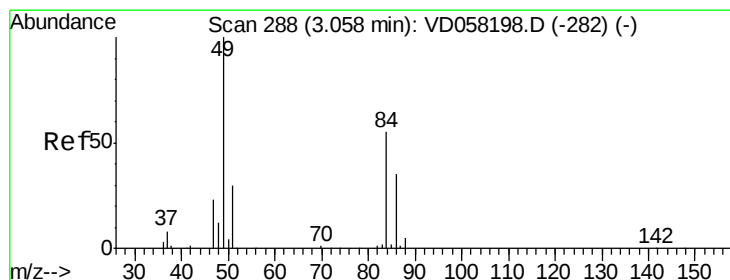
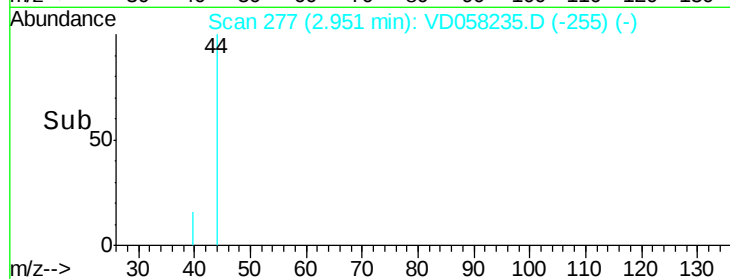
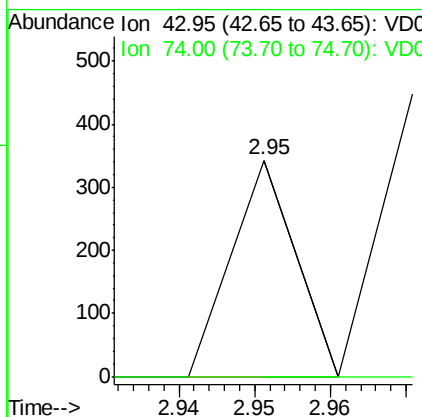
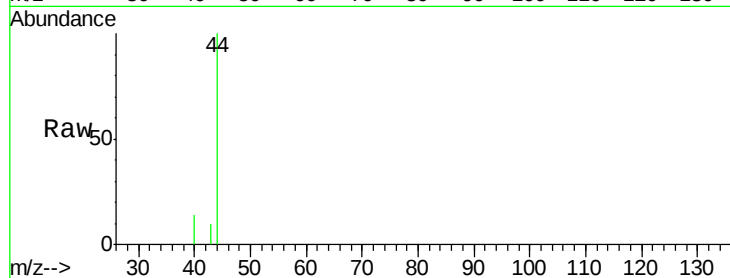




#18
Methyl Acetate
Concen: 12.945 ug/l
RT: 2.95 min Scan# 277
Delta R.T. 0.02 min
Lab File: VD058235.D
Acq: 21 Jun 2018 5:03

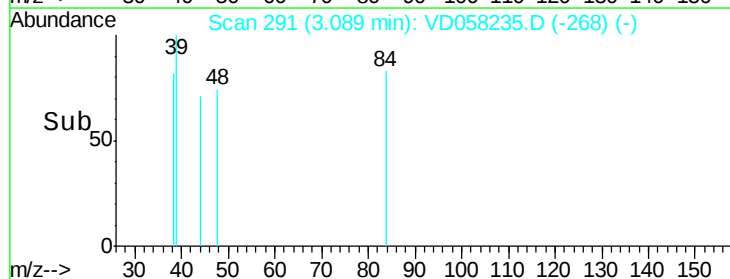
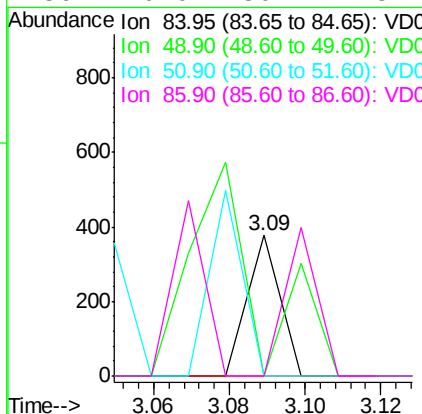
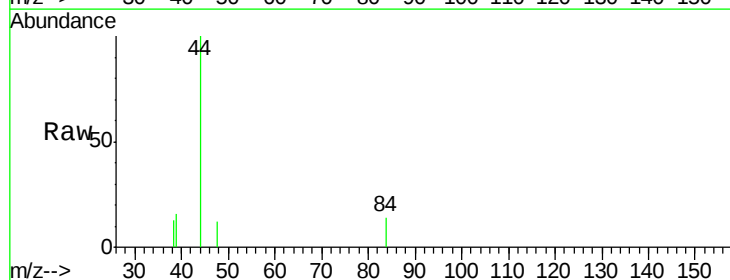
Instrument :
MSVOA_D
ClientSampled :
BFB

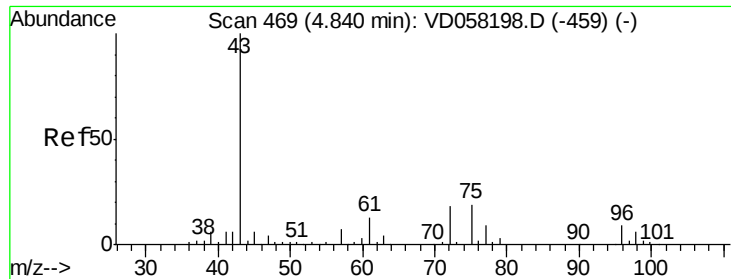
Tot Ion: 43 Resp: 203
Ion Ratio Lower Upper
43 100
74 0.0 11.7 17.5#



#20
Methylene Chloride
Concen: 7.574 ug/l
RT: 3.09 min Scan# 291
Delta R.T. 0.03 min
Lab File: VD058235.D
Acq: 21 Jun 2018 5:03

Tgt Ion: 84 Resp: 223
Ion Ratio Lower Upper
84 100
49 0.0 145.0 217.6#
51 0.0 42.9 64.3#
86 0.0 50.1 75.1#





#25

2-Butanone

Concen: 84.862 ug/l

RT: 4.86 min Scan# 471

Delta R.T. 0.02 min

Lab File: VD058235.D

Acq: 21 Jun 2018 5:03

Instrument :

MSVOA_D

ClientSampleId :

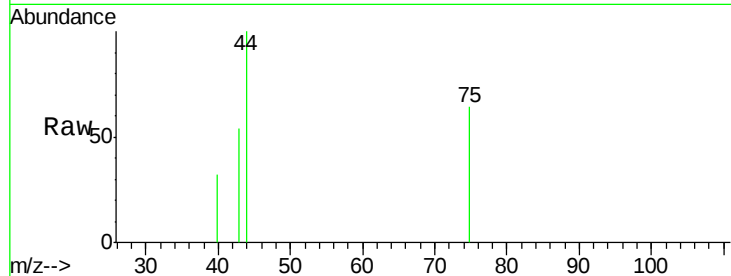
BFB

Tot Ion: 43 Resp: 1360

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

800

600

400

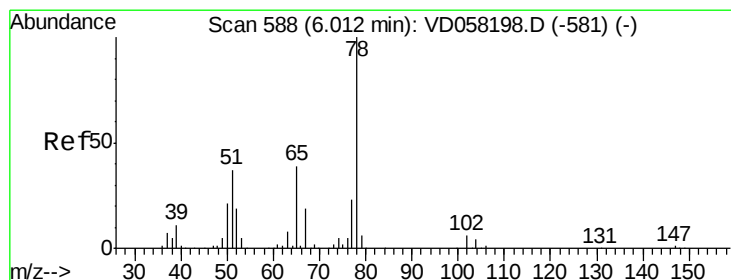
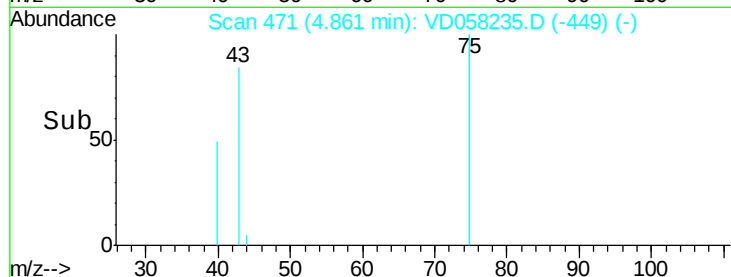
200

0

4.80 4.85 4.90

4.86

Time-->



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.02 min Scan# 589

Delta R.T. 0.01 min

Lab File: VD058235.D

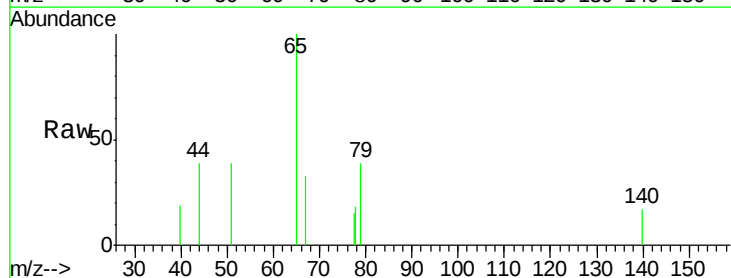
Acq: 21 Jun 2018 5:03

Tgt Ion: 65 Resp: 3741

Ion Ratio Lower Upper

65 100

67 33.2 0.0 97.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

2000

1500

1000

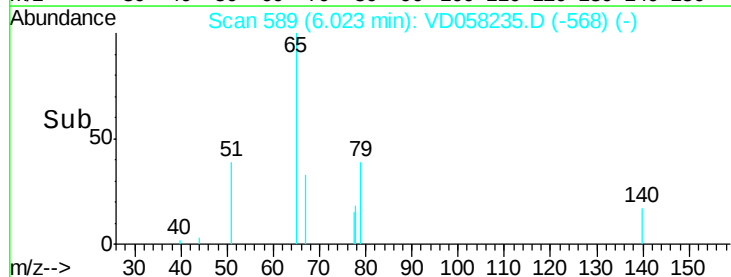
500

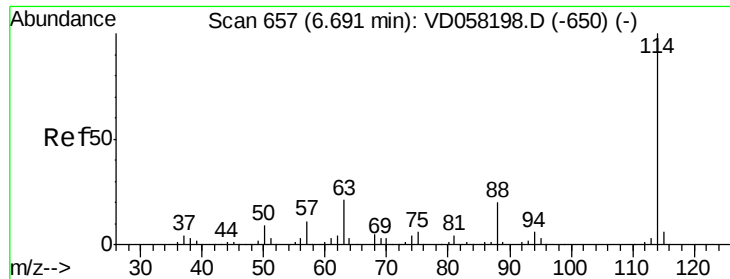
0

5.95 6.00 6.05 6.10

6.02

Time-->

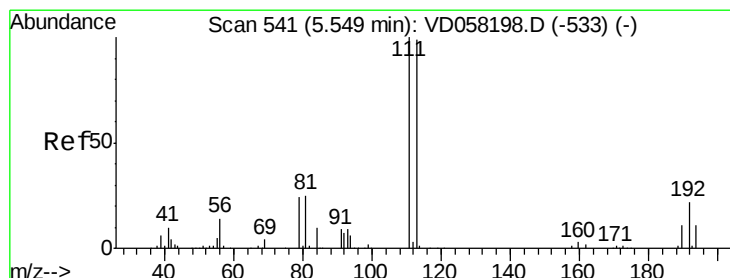
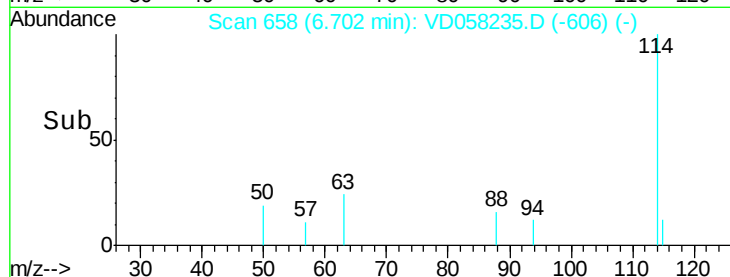
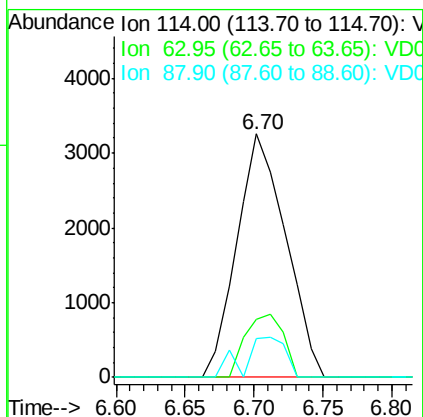
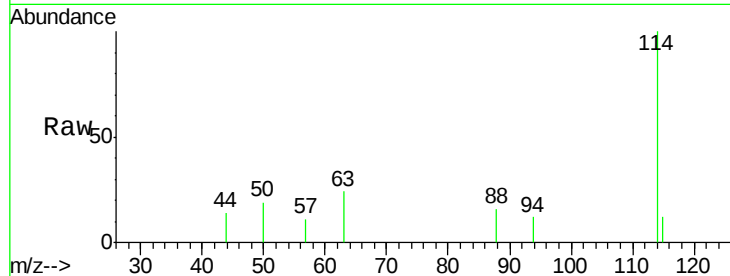




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.70 min Scan# 658
 Delta R.T. 0.01 min
 Lab File: VD058235.D
 Acq: 21 Jun 2018 5:03

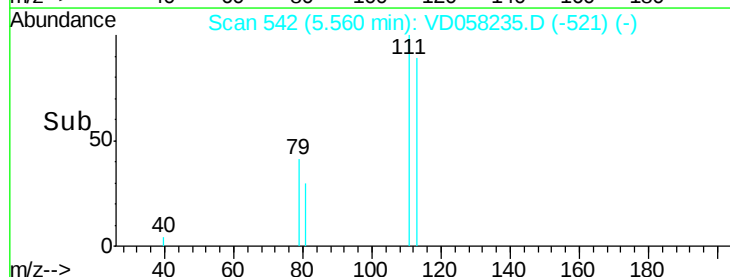
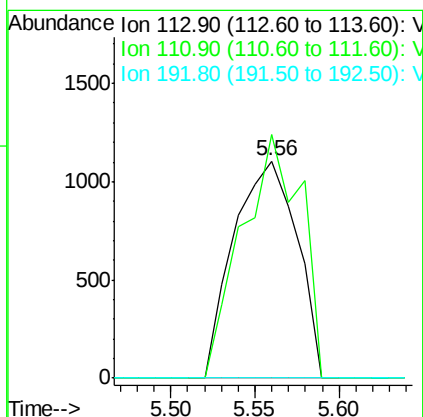
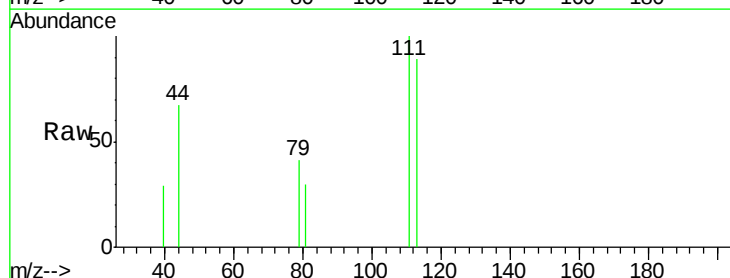
Instrument :
 MSVOA_D
 ClientSampleId :
 BFB

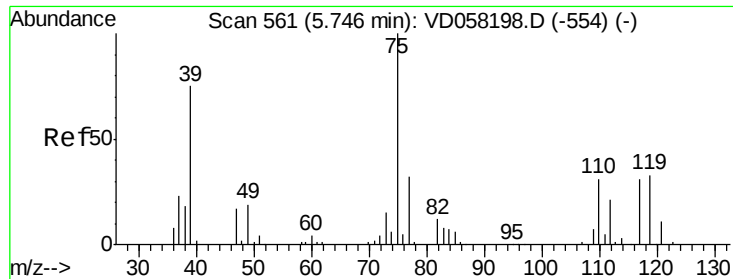
Tot Ion:114 Resp: 8036
 Ion Ratio Lower Upper
 114 100
 63 23.7 0.0 42.6
 88 16.0 0.0 40.6



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.56 min Scan# 542
 Delta R.T. 0.01 min
 Lab File: VD058235.D
 Acq: 21 Jun 2018 5:03

Tgt Ion:113 Resp: 2867
 Ion Ratio Lower Upper
 113 100
 111 112.0 80.6 121.0
 192 0.0 17.8 26.6#





#36

1,1-Dichloropropene

Concen: 3.044 ug/l

RT: 5.87 min Scan# 573

Delta R.T. 0.12 min

Lab File: VD058235.D

Acq: 21 Jun 2018 5:03

Instrument :

MSVOA_D

ClientSampled :

BFB

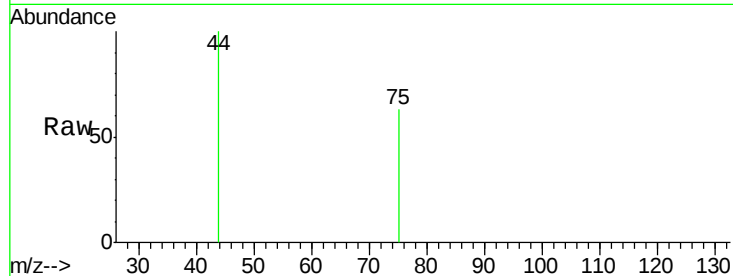
Tot Ion: 75 Resp: 242

Ion Ratio Lower Upper

75 100

110 0.0 15.4 46.4#

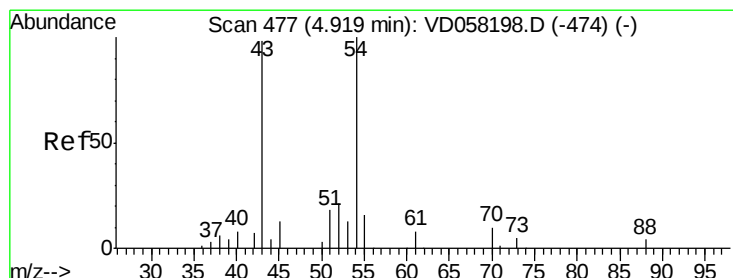
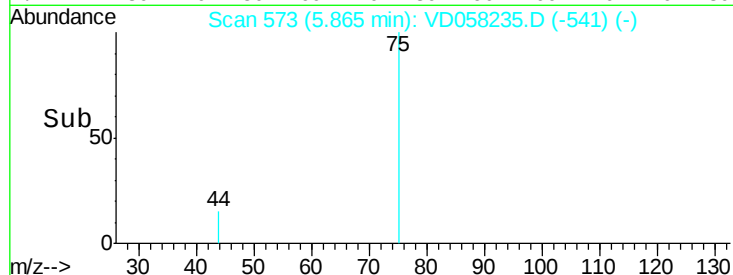
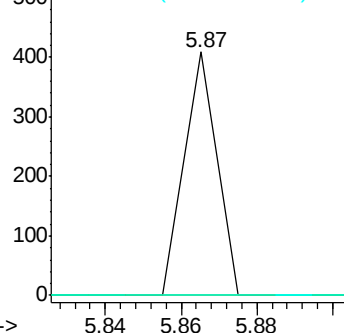
77 0.0 25.4 38.2#



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



#37

Ethyl Acetate

Concen: 5.078 ug/l

RT: 4.91 min Scan# 476

Delta R.T. -0.01 min

Lab File: VD058235.D

Acq: 21 Jun 2018 5:03

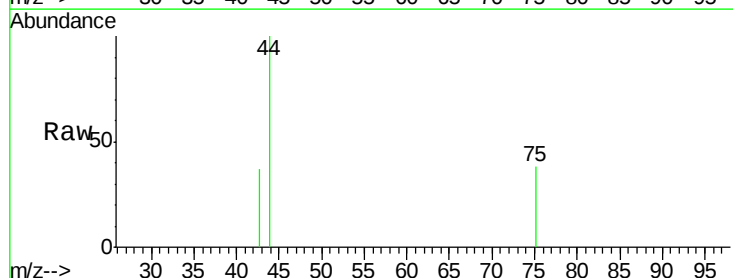
Tgt Ion: 43 Resp: 230

Ion Ratio Lower Upper

43 100

61 0.0 10.3 15.5#

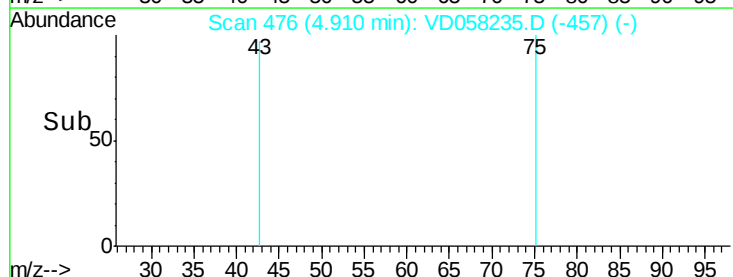
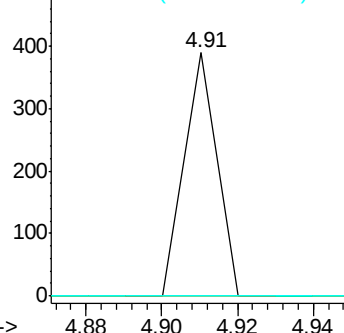
70 0.0 5.7 8.5#

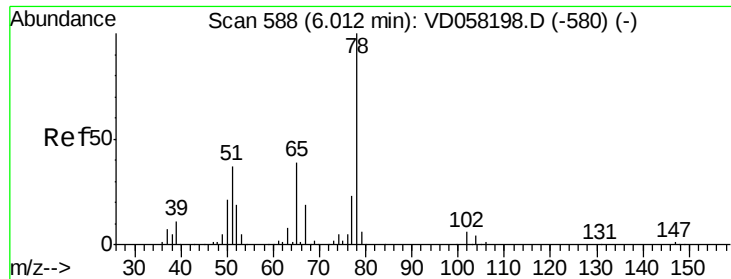


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#40

Benzene

Concen: 1.167 ug/l

RT: 6.02 min Scan# 589

Delta R.T. 0.01 min

Lab File: VD058235.D

Acq: 21 Jun 2018 5:03

Instrument :

MSVOA_D

ClientSampleId :

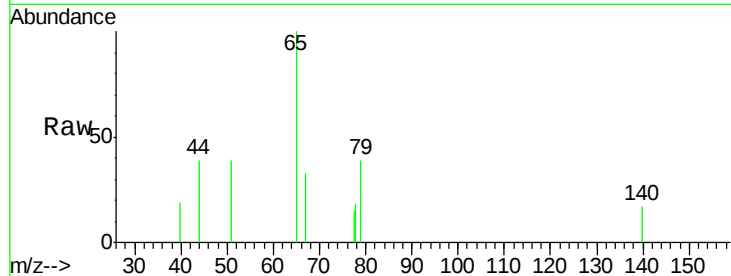
BFB

Tot Ion: 78 Resp: 221

Ion Ratio Lower Upper

78 100

77 84.0 18.5 27.7#



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

6.02

400

300

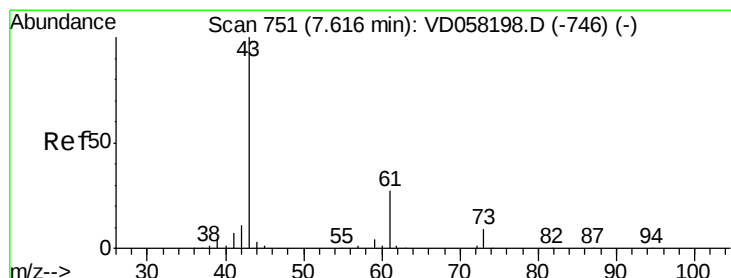
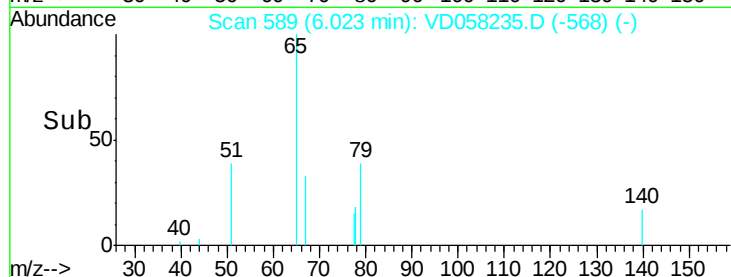
200

100

0

6.00 6.02 6.04

Time-->



#43

Isopropyl Acetate

Concen: 4.123 ug/l

RT: 7.71 min Scan# 760

Delta R.T. 0.09 min

Lab File: VD058235.D

Acq: 21 Jun 2018 5:03

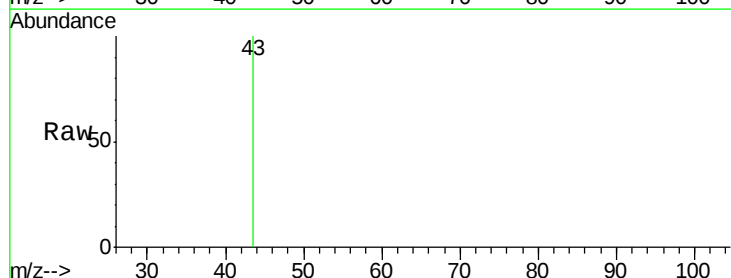
Tgt Ion: 43 Resp: 249

Ion Ratio Lower Upper

43 100

61 0.0 21.8 32.6#

87 0.0 0.3 0.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC

7.71

500

400

300

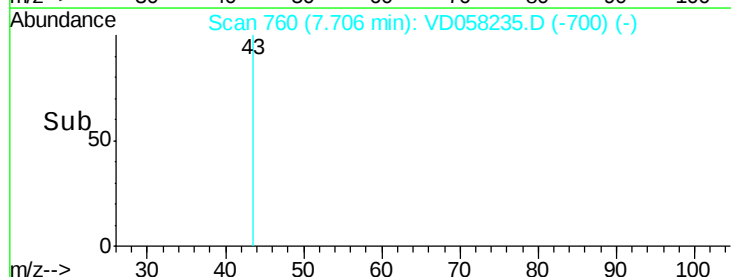
200

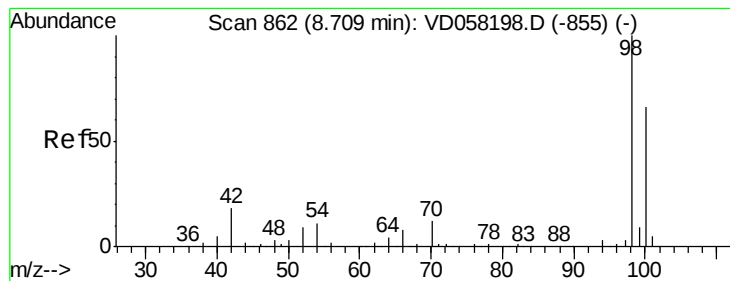
100

0

7.68 7.70 7.72

Time-->





#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.72 min Scan# 863

Delta R.T. 0.01 min

Lab File: VD058235.D

Acq: 21 Jun 2018 5:03

Instrument :

MSVOA_D

ClientSampleId :

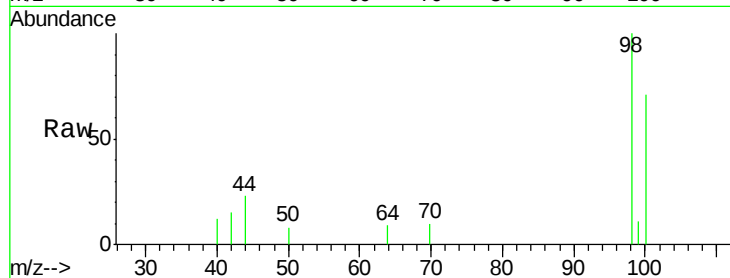
BFB

Tot Ion: 98 Resp: 8160

Ion Ratio Lower Upper

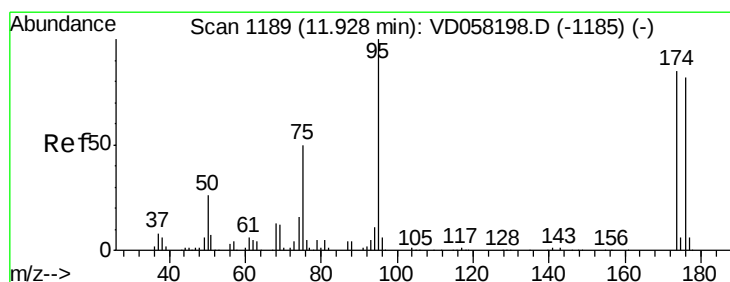
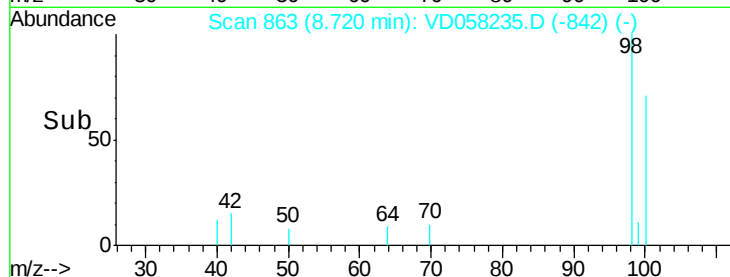
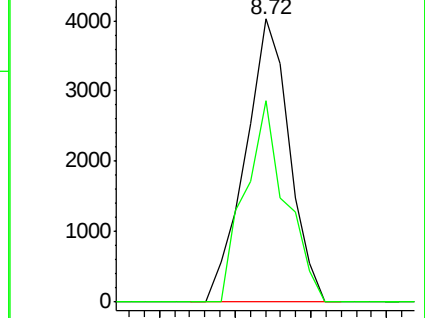
98 100

100 71.2 53.6 80.4



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058235.D

Acq: 21 Jun 2018 5:03

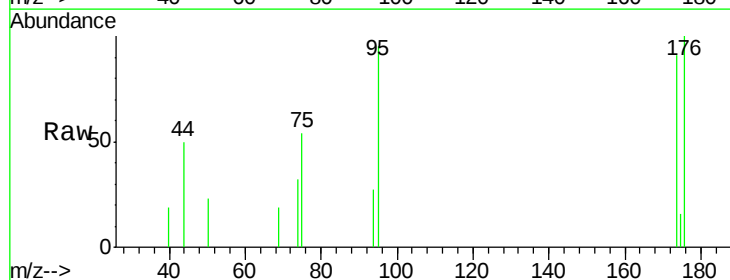
Tgt Ion: 95 Resp: 2972

Ion Ratio Lower Upper

95 100

174 95.9 0.0 170.2

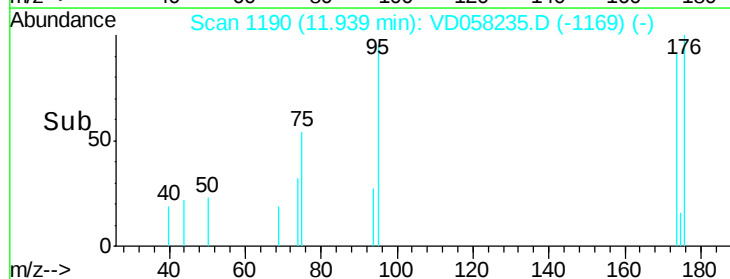
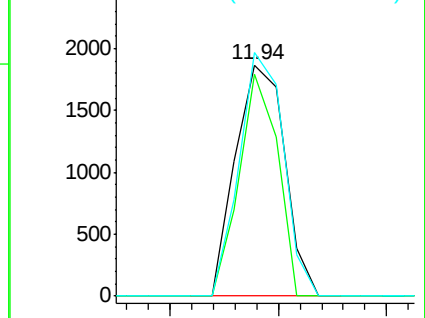
176 105.5 0.0 164.6

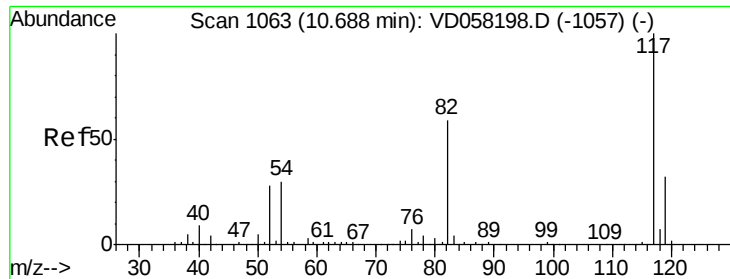


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): VDC

Ion 175.90 (175.60 to 176.60): VDC





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.70 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VD058235.D

Acq: 21 Jun 2018 5:03

Instrument :

MSVOA_D

ClientSampleId :

BFB

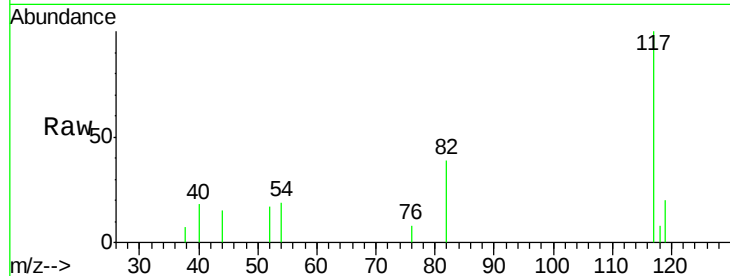
Tot Ion:117 Resp: 7511

Ion Ratio Lower Upper

117 100

82 39.5 47.0 70.6#

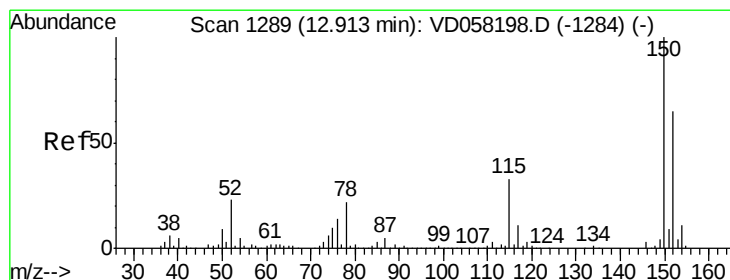
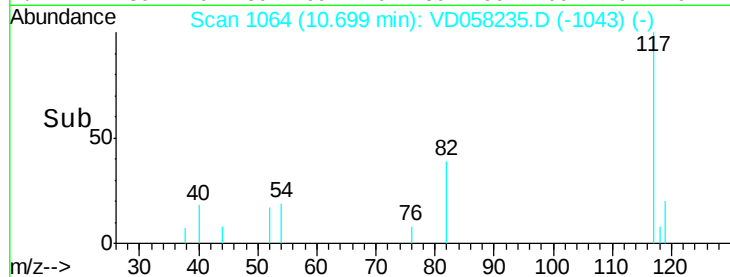
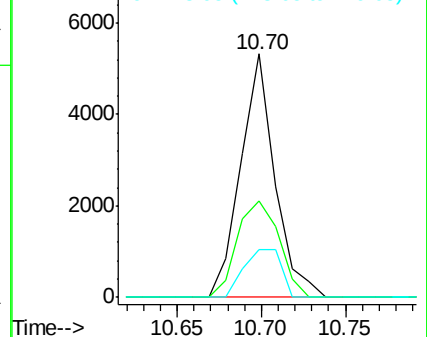
119 19.8 25.3 37.9#



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: 50.000 ug/l

RT: 12.91 min Scan# 1289

Delta R.T. 0.00 min

Lab File: VD058235.D

Acq: 21 Jun 2018 5:03

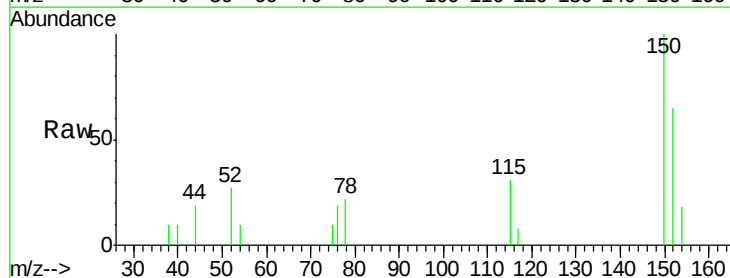
Tgt Ion:152 Resp: 2820

Ion Ratio Lower Upper

152 100

115 48.0 25.1 75.3

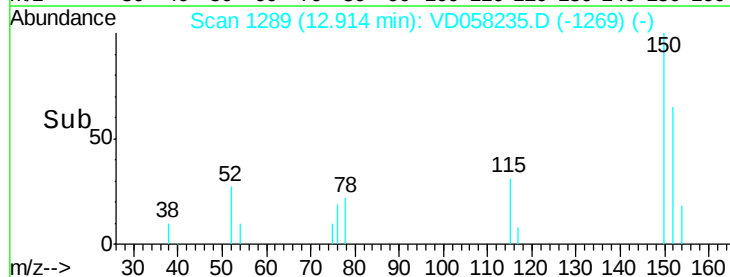
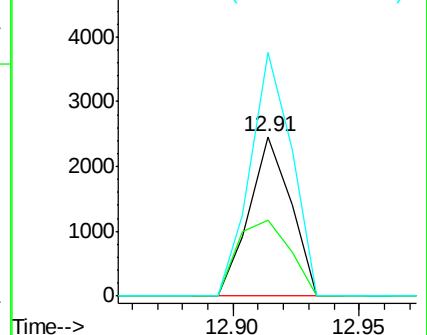
150 152.9 0.0 308.8

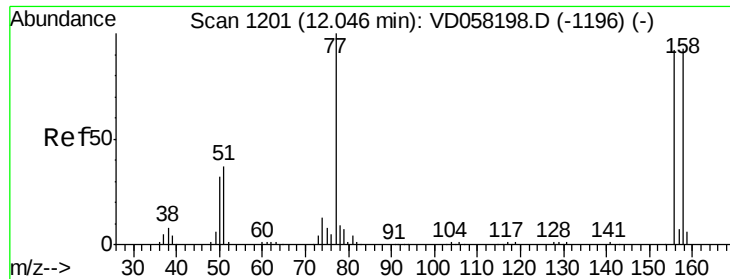


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#77

Bromobenzene

Concen: 4.158 ug/l

RT: 12.05 min Scan# 1201

Delta R.T. 0.00 min

Lab File: VD058235.D

Acq: 21 Jun 2018 5:03

Instrument :

MSVOA_D

ClientSampleId :

BFB

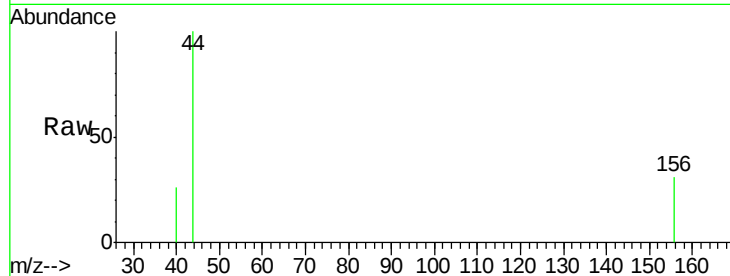
Tot Ion:156 Resp: 210

Ion Ratio Lower Upper

156 100

77 0.0 54.5 163.6#

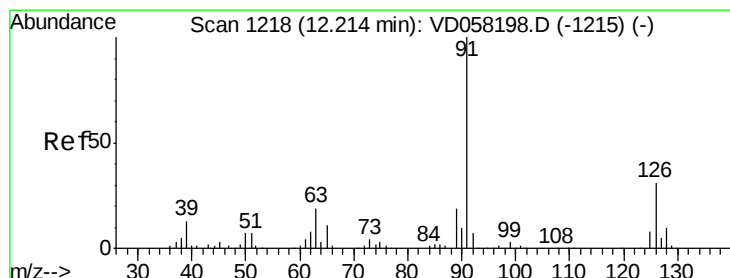
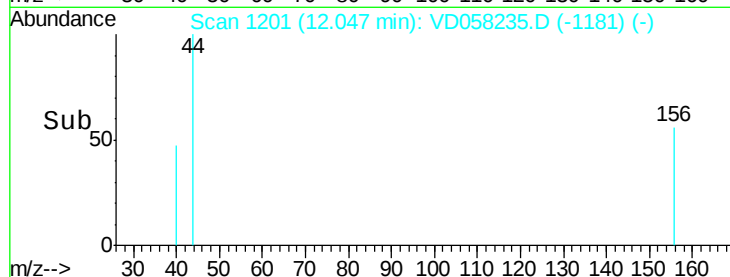
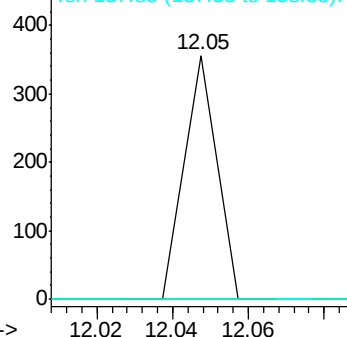
158 0.0 50.8 152.5#



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#79

2-Chlorotoluene

Concen: 1.428 ug/l

RT: 12.23 min Scan# 1220

Delta R.T. 0.02 min

Lab File: VD058235.D

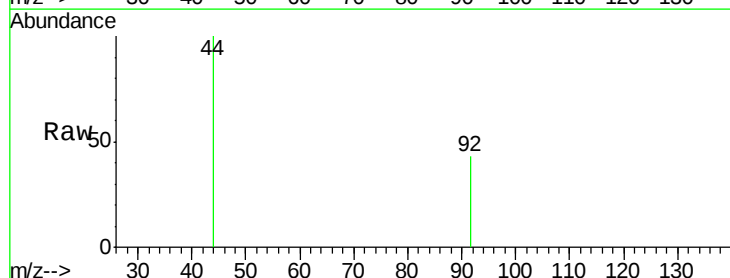
Acq: 21 Jun 2018 5:03

Tgt Ion: 91 Resp: 178

Ion Ratio Lower Upper

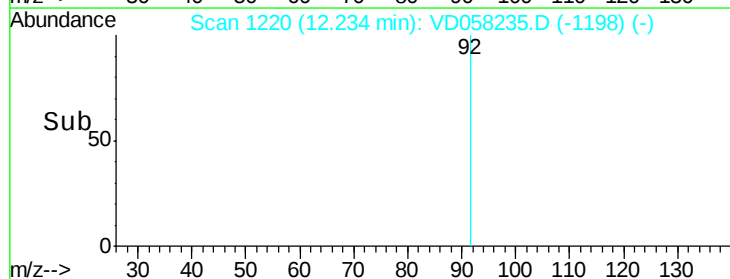
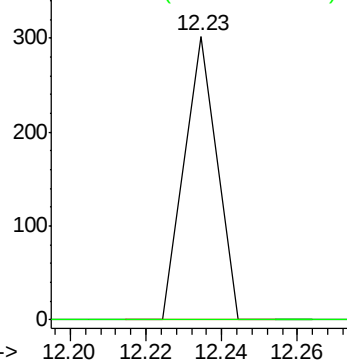
91 100

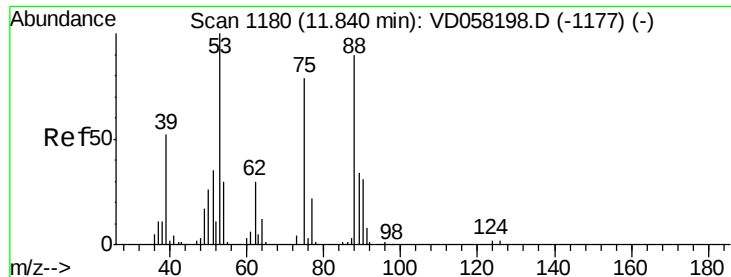
126 0.0 14.9 44.5#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 122.787 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.10 min

Lab File: VD058235.D

Acq: 21 Jun 2018 5:03

Instrument :

MSVOA_D

ClientSampleId :

BFB

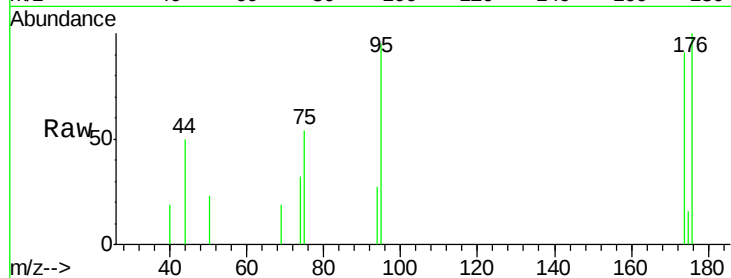
Tot Ion: 75 Resp: 1233

Ion Ratio Lower Upper

75 100

53 0.0 100.8 151.2#

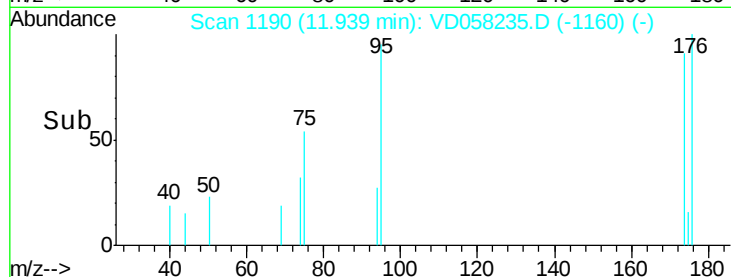
89 0.0 34.6 52.0#



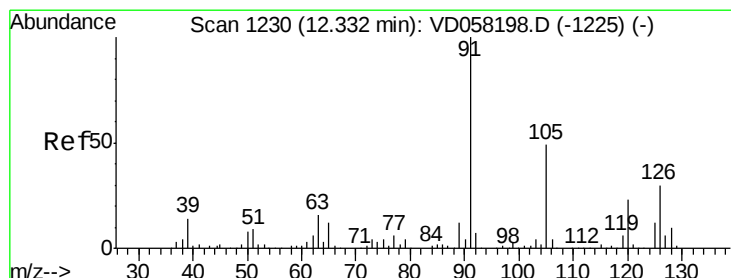
Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC

11.94

11.95



Time-->



#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.23 min Scan# 1220

Delta R.T. -0.10 min

Lab File: VD058235.D

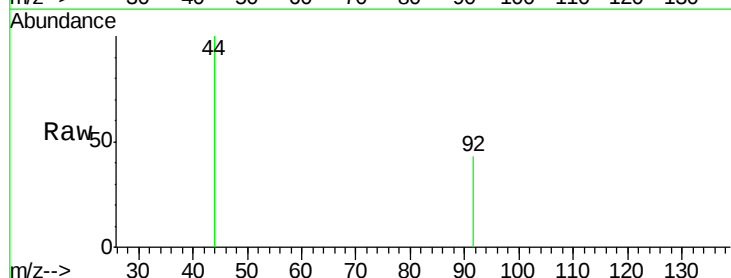
Acq: 21 Jun 2018 5:03

Tgt Ion: 91 Resp: 178

Ion Ratio Lower Upper

91 100

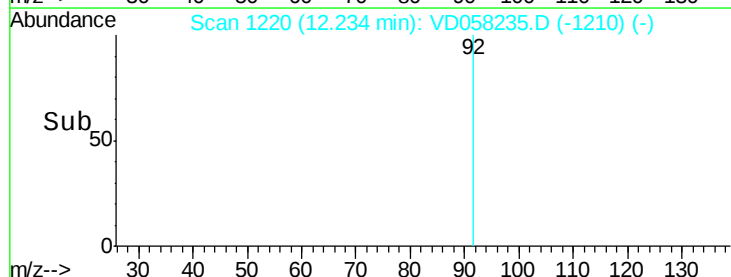
126 0.0 14.9 44.9#



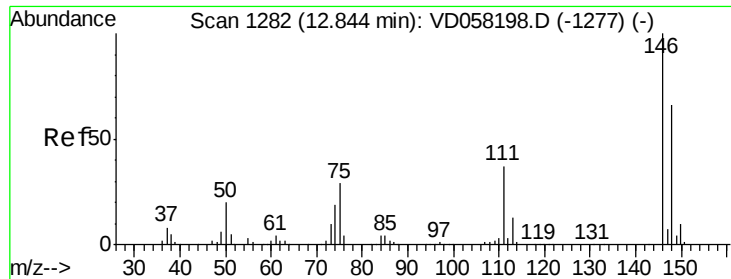
Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

12.23

12.24



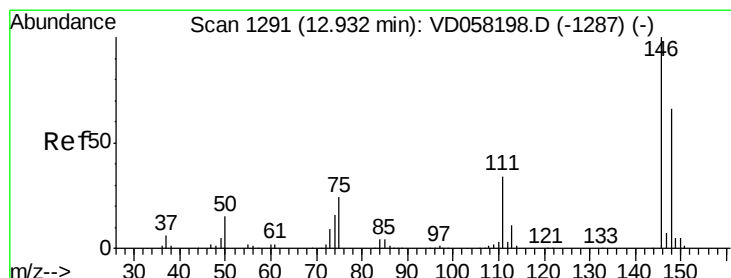
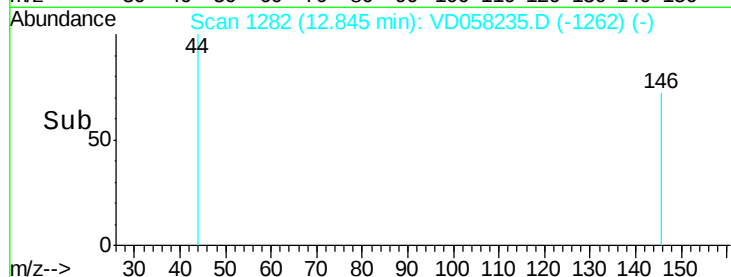
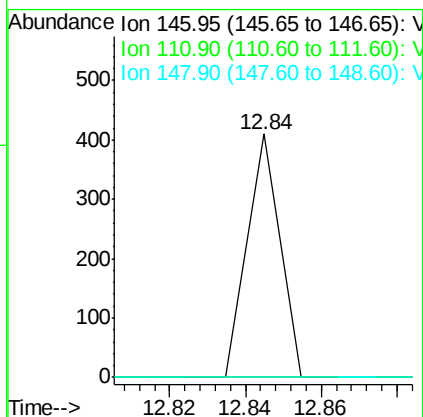
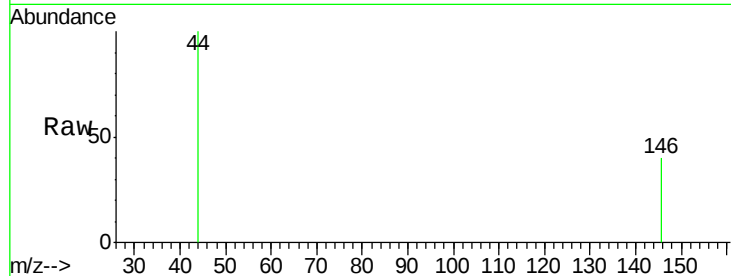
Time-->



#87
 1,3-Dichlorobenzene
 Concen: 2.757 ug/l
 RT: 12.84 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VD058235.D
 Acq: 21 Jun 2018 5:03

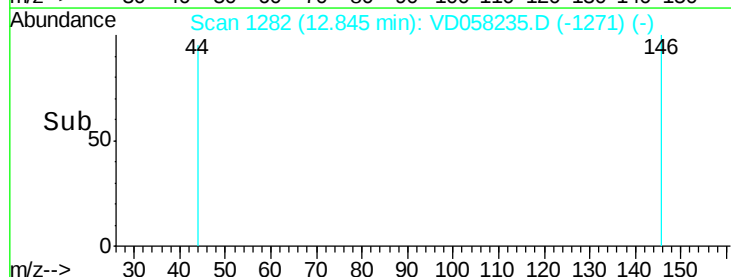
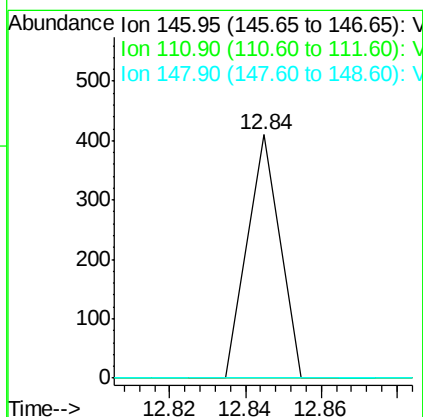
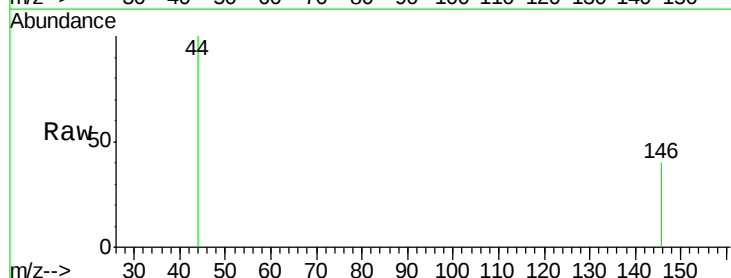
Instrument :
 MSVOA_D
 ClientSampled :
 BFB

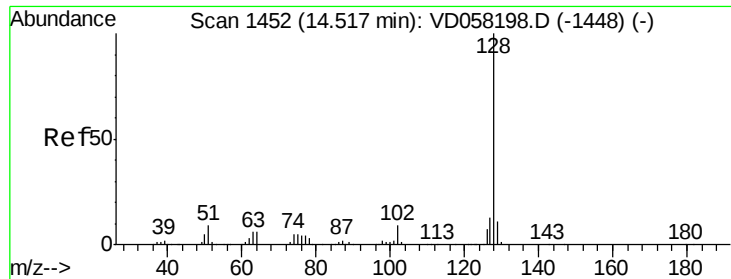
Tot Ion:146 Resp: 242
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.4 55.0#
 148 0.0 32.8 98.4#



#88
 1,4-Dichlorobenzene
 Concen: 2.823 ug/l
 RT: 12.84 min Scan# 1282
 Delta R.T. -0.09 min
 Lab File: VD058235.D
 Acq: 21 Jun 2018 5:03

Tgt Ion:146 Resp: 242
 Ion Ratio Lower Upper
 146 100
 111 0.0 17.2 51.5#
 148 0.0 33.1 99.3#





#95

Naphthalene

Concen: 3.750 ug/l

RT: 14.52 min Scan# 1452

Delta R.T. 0.00 min

Lab File: VD058235.D

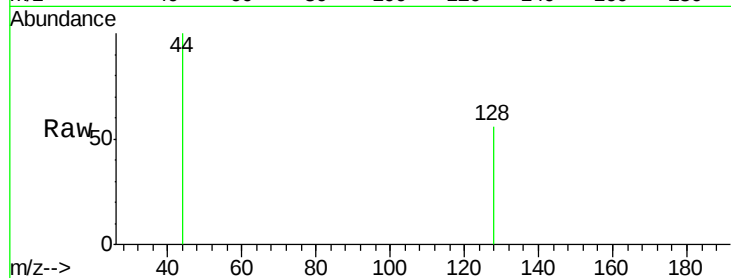
Acq: 21 Jun 2018 5:03

Instrument :

MSVOA_D

ClientSampleId :

BFB



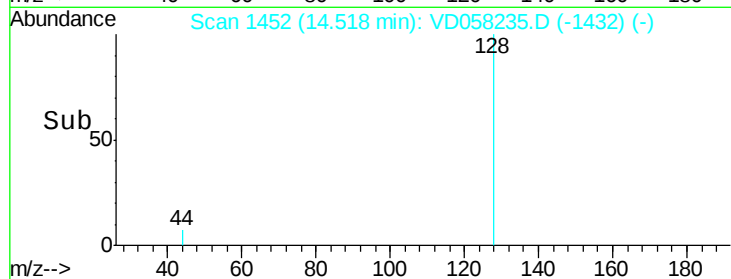
Tot Ion:128 Resp: 353

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

800

600

400

200

0

14.48 14.50 14.52 14.54

Time-->