

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061319\
 Data File : VD062700.D
 Acq On : 13 Jun 2019 18:16
 Operator : VA/AP
 Sample : K3369-16RE
 Misc : 5.09g/5ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 14 06:48:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	797680	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.24	114	1024513	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	899385	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	496673	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	341350	29.66	ug/l	0.02
Spiked Amount			Recovery	=	59.32%	
35) Dibromofluoromethane	6.94	113	353627	32.73	ug/l	0.02
Spiked Amount			Recovery	=	65.46%	
50) Toluene-d8	10.43	98	664184	29.22	ug/l	0.01
Spiked Amount			Recovery	=	58.44%	
62) 4-Bromofluorobenzene	13.57	95	352893	33.28	ug/l	0.01
Spiked Amount			Recovery	=	66.56%	

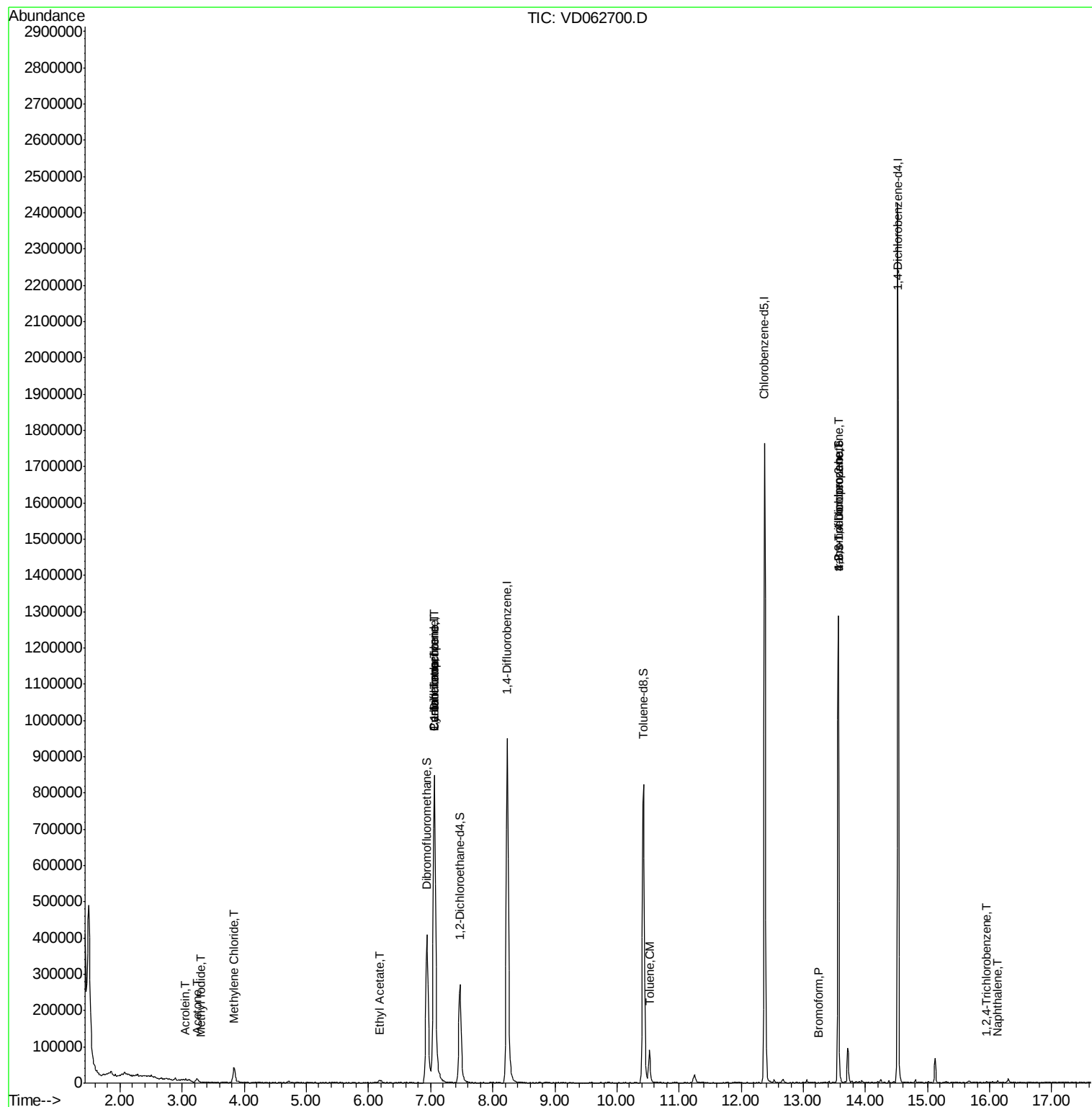
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.59	85	1546	Below Cal	#	42
10) Methyl Iodide	3.31	142	186	4.021	ug/l #	8
13) Acrolein	3.04	56	250	1.643	ug/l	98
16) Acetone	3.24	43	22793	10.814	ug/l #	88
20) Methylene Chloride	3.83	84	26682	2.935	ug/l	89
31) Cyclohexane	7.07	56	19785	2.178	ug/l #	4
36) 1,1-Dichloropropene	7.06	75	67451	5.752	ug/l #	50
37) Ethyl Acetate	6.19	43	270	1.254	ug/l #	74
38) Carbon Tetrachloride	7.06	117	85161	4.595	ug/l #	17
52) Toluene	10.52	92	41627	2.704	ug/l	95
71) Bromoform	13.24	173	270	2.866	ug/l #	38
76) 1,2,3-Trichloropropane	13.57	75	164495	24.426	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.57	75	178295	86.216	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.95	180	1189	3.655	ug/l #	39
95) Naphthalene	16.13	128	5511	3.734	ug/l	95

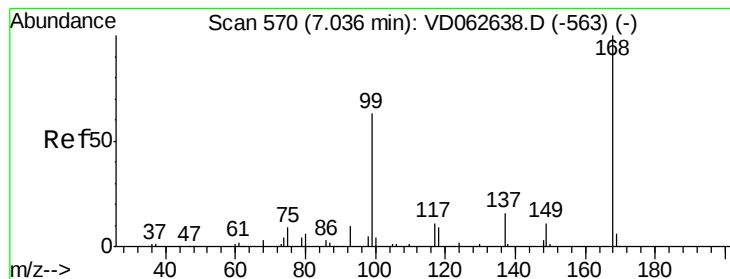
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD062700.D

Acq: 13 Jun 2019 18:16

Instrument :

MSVOA_D

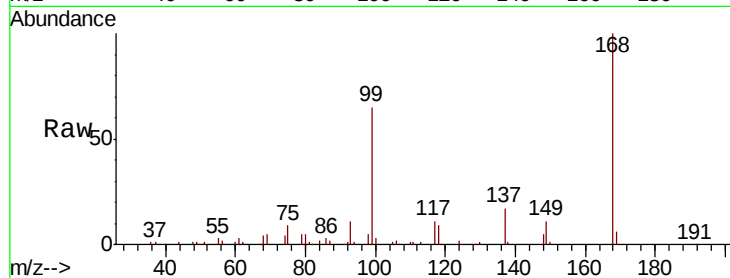
ClientSampleId :

Tot Ion:168 Resp: 797680

Ion Ratio Lower Upper

168 100

99 64.8 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

300000

250000

200000

150000

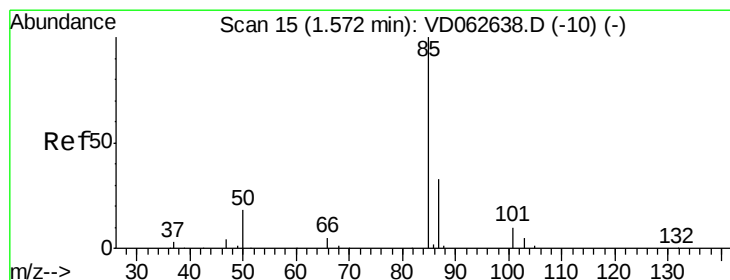
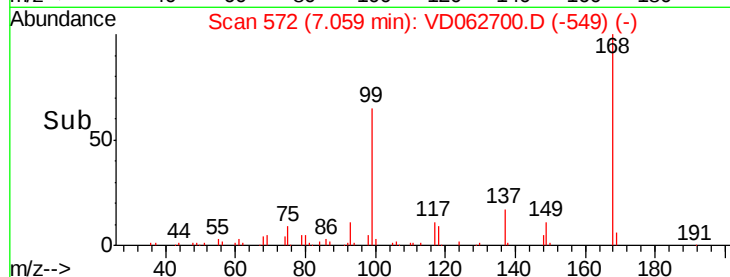
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.59 min Scan# 16

Delta R.T. 0.01 min

Lab File: VD062700.D

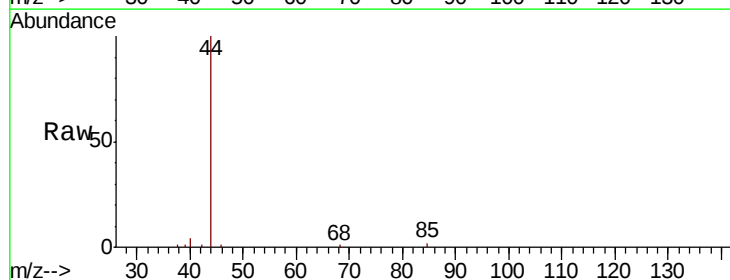
Acq: 13 Jun 2019 18:16

Tgt Ion: 85 Resp: 1546

Ion Ratio Lower Upper

85 100

87 0.0 16.6 49.7#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.59

800

600

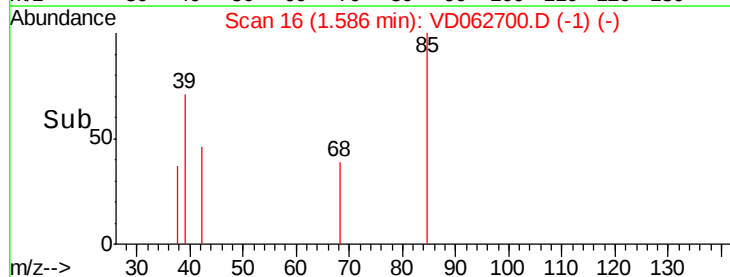
400

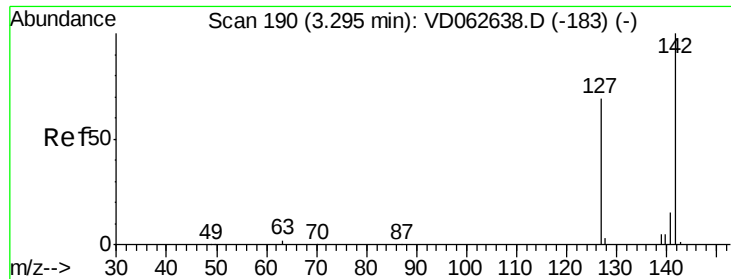
200

0

Time-->

1.55 1.60 1.65

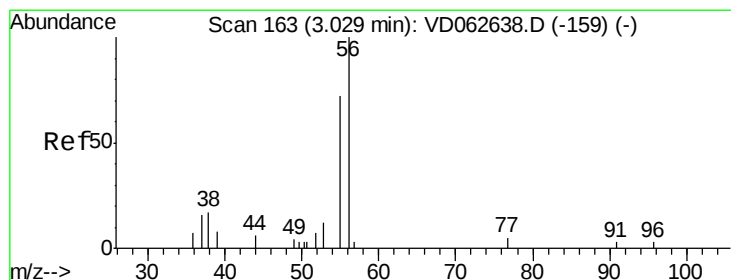
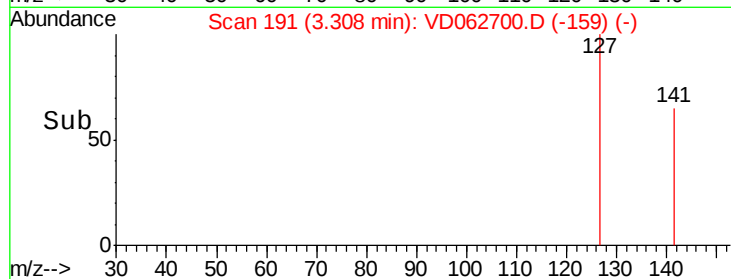
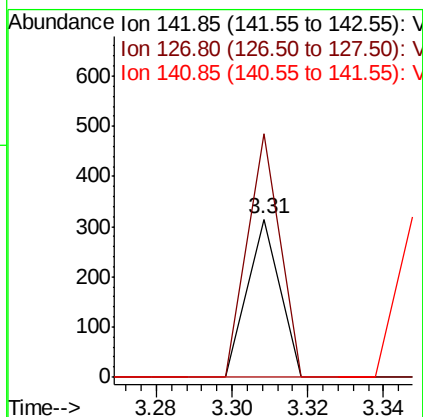
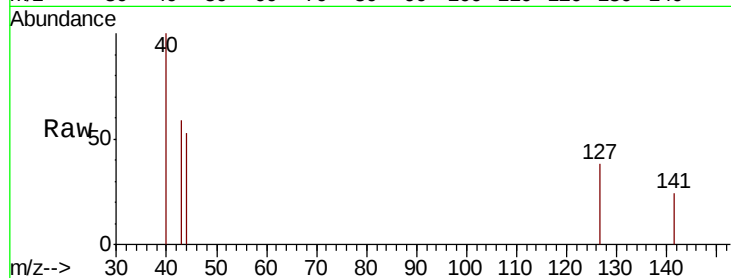




#10
Methyl Iodide
Concen: 4.021 ug/l
RT: 3.31 min Scan# 191
Delta R.T. 0.01 min
Lab File: VD062700.D
Acq: 13 Jun 2019 18:16

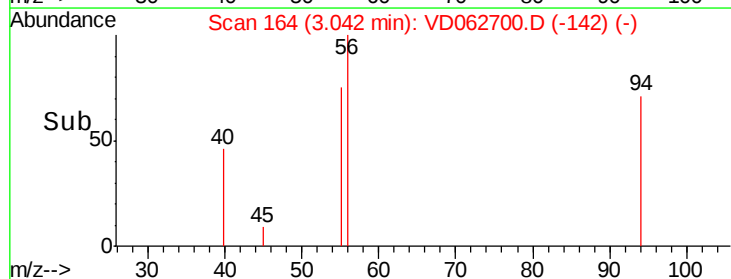
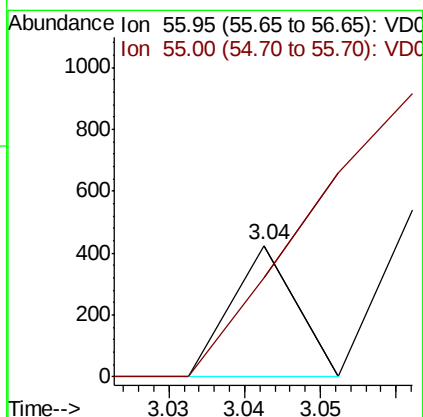
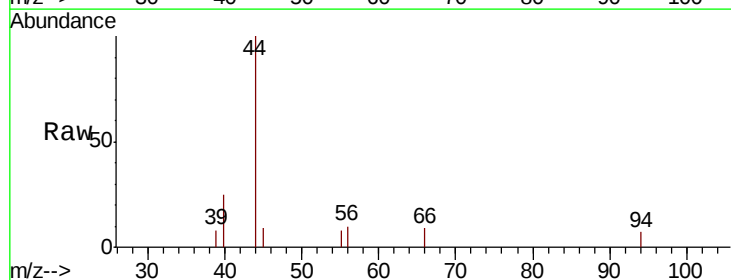
Instrument :
MSVOA_D
ClientSampled :

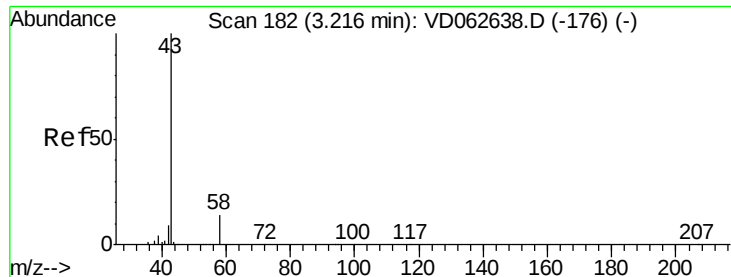
Tot Ion:142 Resp: 186
Ion Ratio Lower Upper
142 100
127 154.0 55.2 82.8#
141 0.0 12.1 18.1#



#13
Acrolein
Concen: 1.643 ug/l
RT: 3.04 min Scan# 164
Delta R.T. 0.01 min
Lab File: VD062700.D
Acq: 13 Jun 2019 18:16

Tgt Ion: 56 Resp: 250
Ion Ratio Lower Upper
56 100
55 75.5 59.4 89.0





#16

Acetone

Concen: 10.814 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.02 min

Lab File: VD062700.D

Acq: 13 Jun 2019 18:16

Instrument :

MSVOA_D

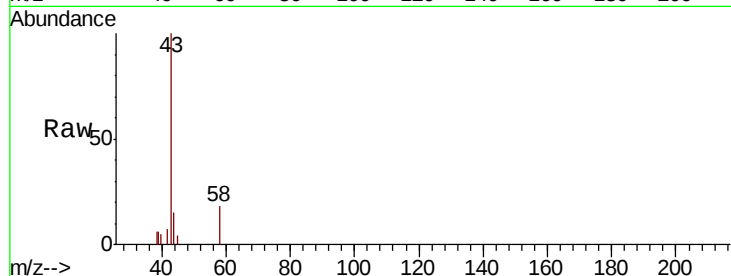
ClientSampleId :

Tot Ion: 43 Resp: 22793

Ion Ratio Lower Upper

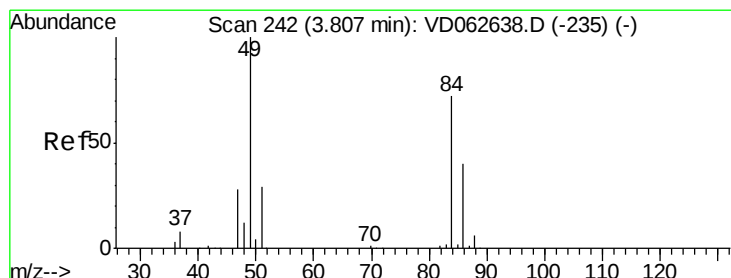
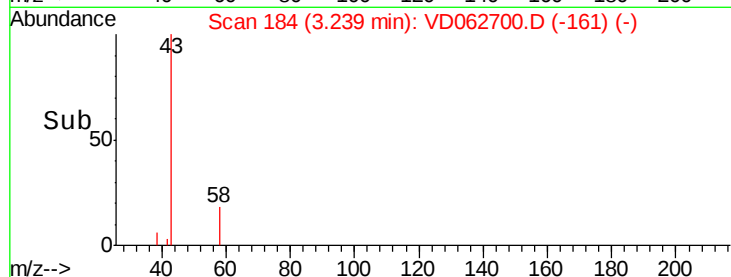
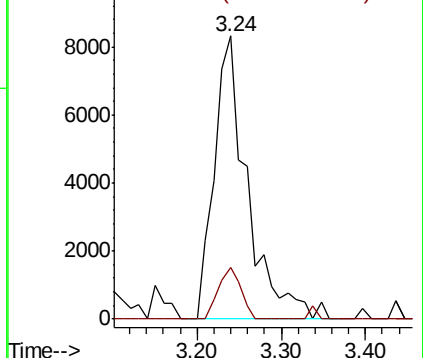
43 100

58 18.4 10.8 16.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 2.935 ug/l

RT: 3.83 min Scan# 244

Delta R.T. 0.02 min

Lab File: VD062700.D

Acq: 13 Jun 2019 18:16

Tgt Ion: 84 Resp: 26682

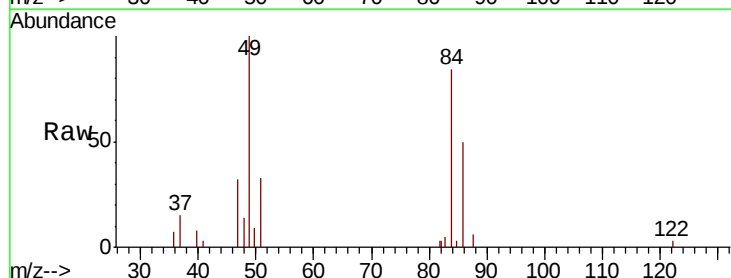
Ion Ratio Lower Upper

84 100

49 118.4 111.2 166.8

51 38.7 31.9 47.9

86 59.0 44.7 67.1

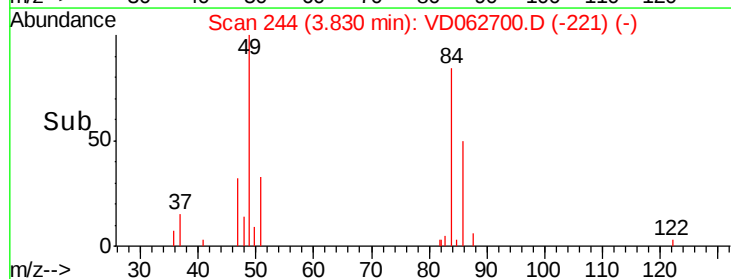
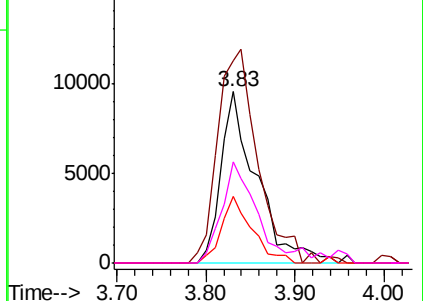


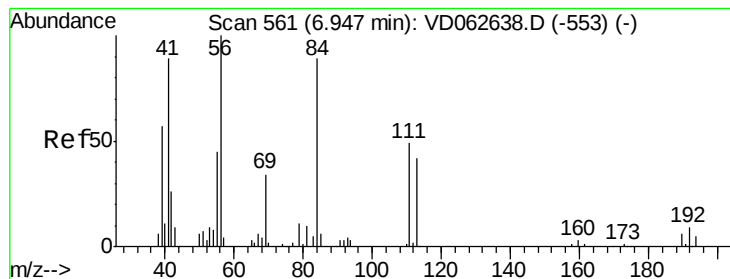
Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#31

Cvclohexane

Concen: 2.178 ug/l

RT: 7.07 min Scan# 573

Delta R.T. 0.12 min

Lab File: VD062700.D

Acq: 13 Jun 2019 18:16

Instrument :

MSVOA_D

ClientSampled :

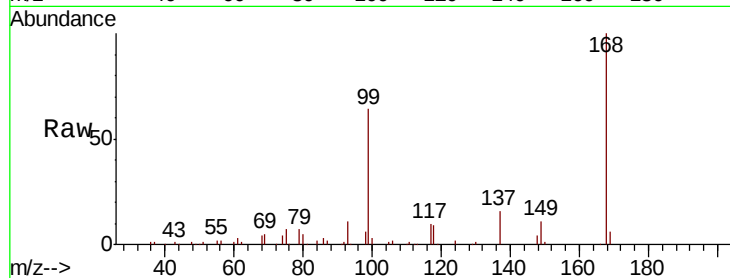
Tot Ion: 56 Resp: 19785

Ion Ratio Lower Upper

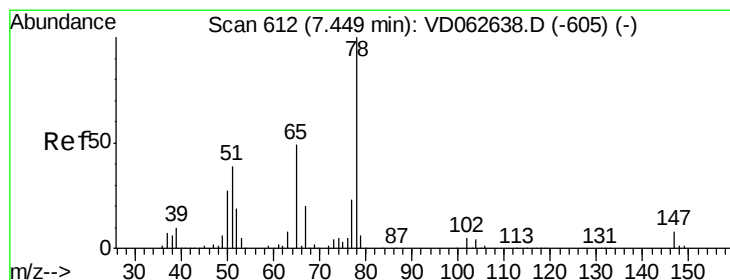
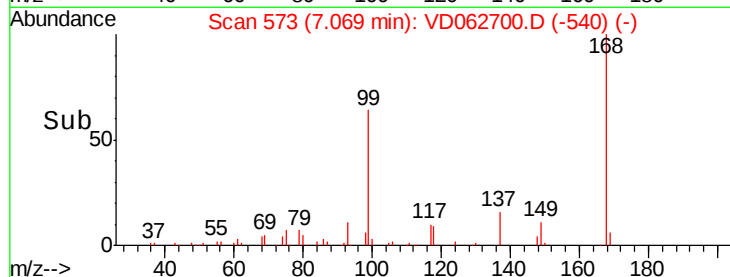
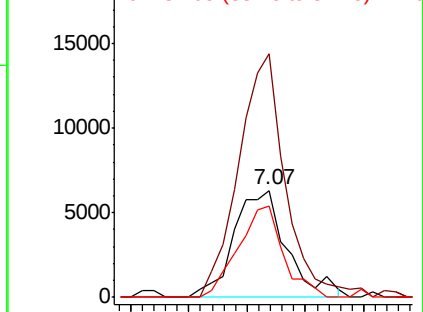
56 100

69 227.1 26.8 40.2#

84 85.6 73.9 110.9



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: 29.656 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.02 min

Lab File: VD062700.D

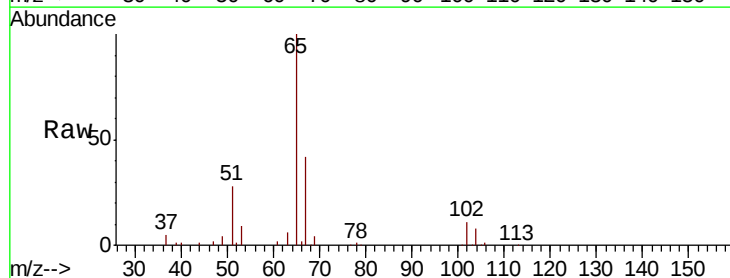
Acq: 13 Jun 2019 18:16

Tgt Ion: 65 Resp: 341350

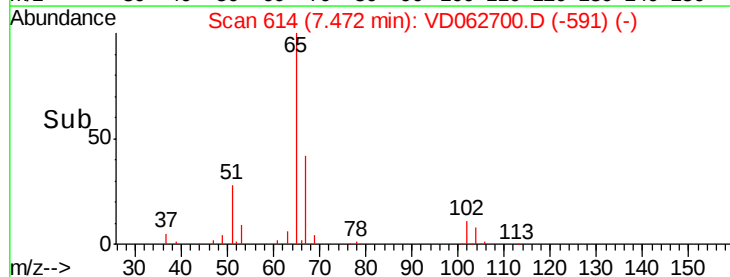
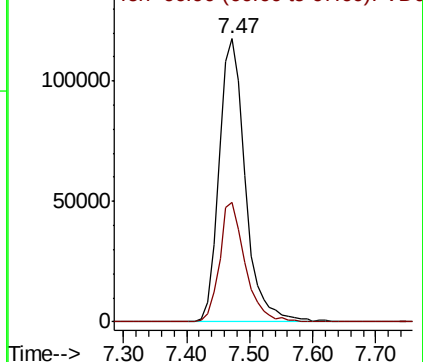
Ion Ratio Lower Upper

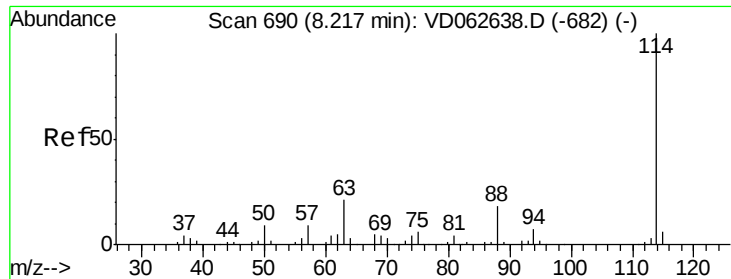
65 100

67 42.1 0.0 81.8



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

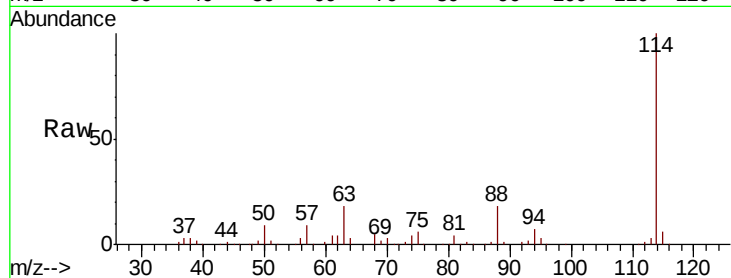




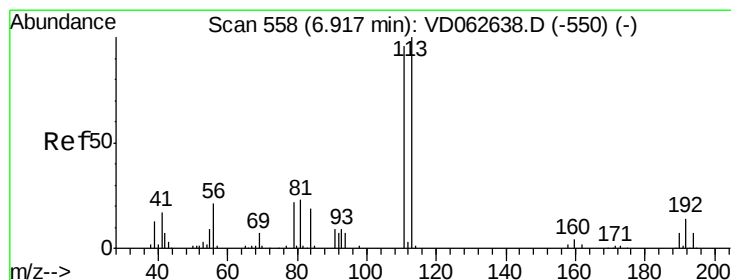
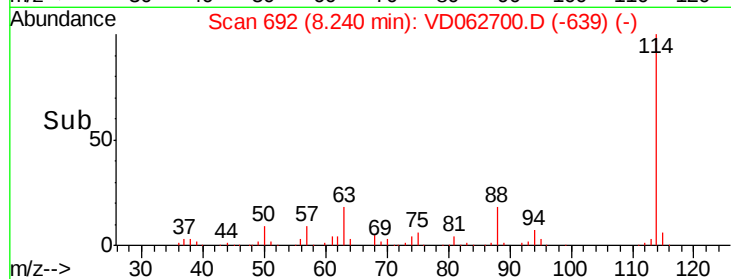
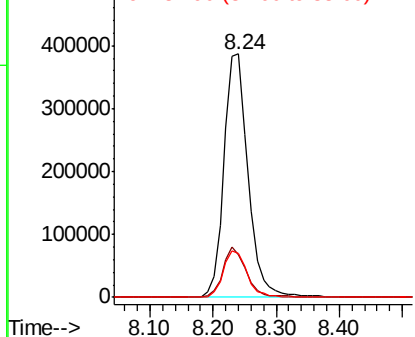
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.24 min Scan# 692
 Delta R.T. 0.02 min
 Lab File: VD062700.D
 Acq: 13 Jun 2019 18:16

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion:114 Resp: 1024513
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 42.4
 88 17.9 0.0 36.8

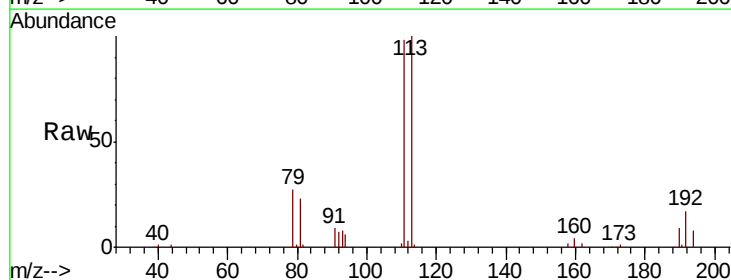


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

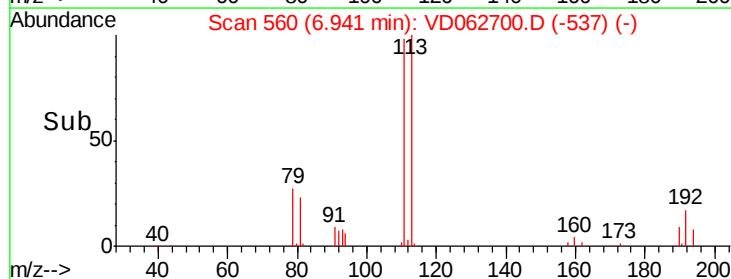
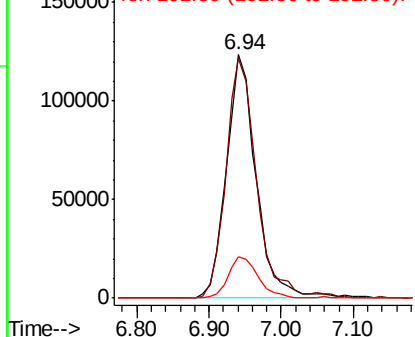


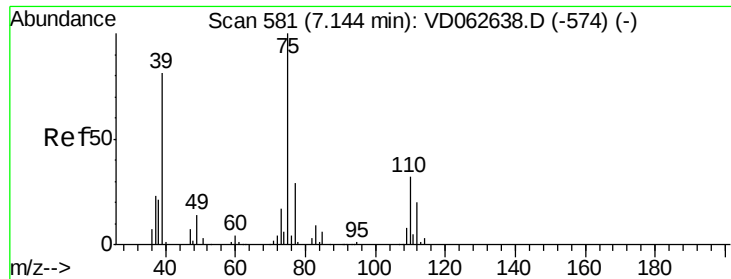
#35
 Dibromofluoromethane
 Concen: 32.729 ug/l
 RT: 6.94 min Scan# 560
 Delta R.T. 0.02 min
 Lab File: VD062700.D
 Acq: 13 Jun 2019 18:16

Tgt Ion:113 Resp: 353627
 Ion Ratio Lower Upper
 113 100
 111 98.3 76.4 114.6
 192 17.0 11.4 17.0



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: 5.752 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.08 min

Lab File: VD062700.D

Acq: 13 Jun 2019 18:16

Instrument :
MSVOA_D
ClientSampled :

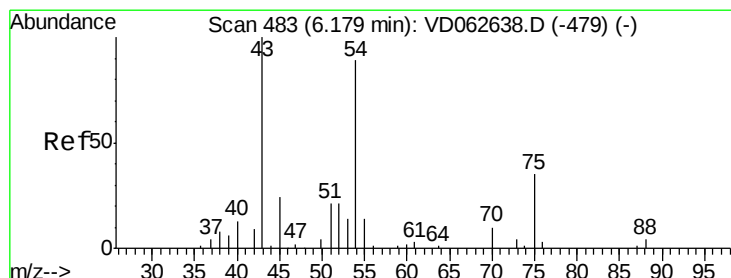
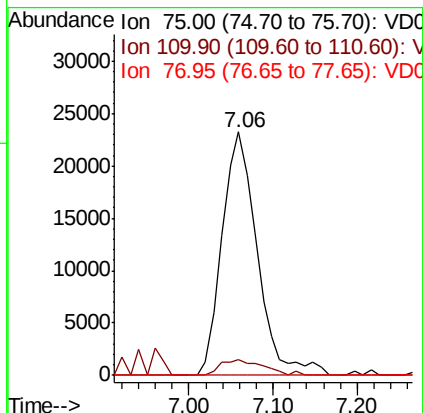
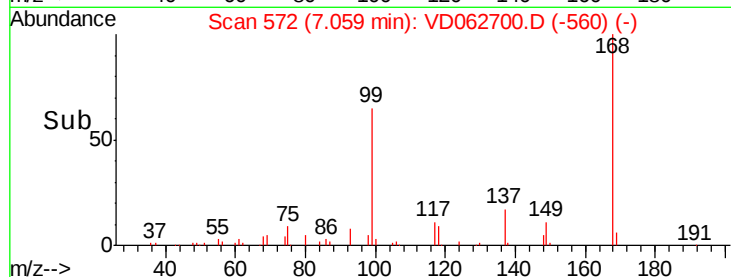
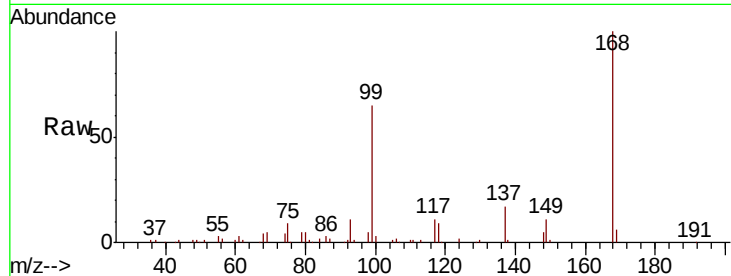
Tot Ion: 75 Resp: 67451

Ion Ratio Lower Upper

75 100

110 6.5 15.9 47.7#

77 0.0 23.3 34.9#



#37

Ethyl Acetate

Concen: 1.254 ug/l

RT: 6.19 min Scan# 484

Delta R.T. 0.01 min

Lab File: VD062700.D

Acq: 13 Jun 2019 18:16

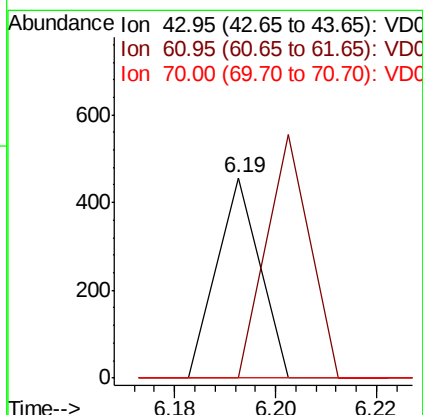
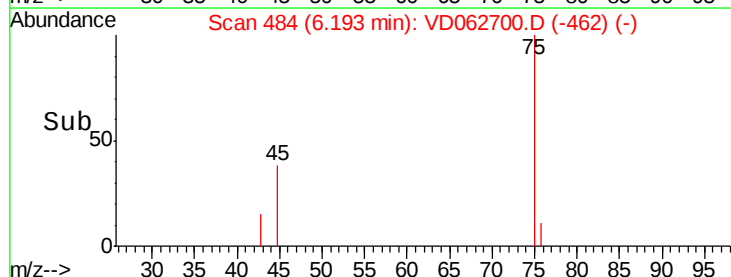
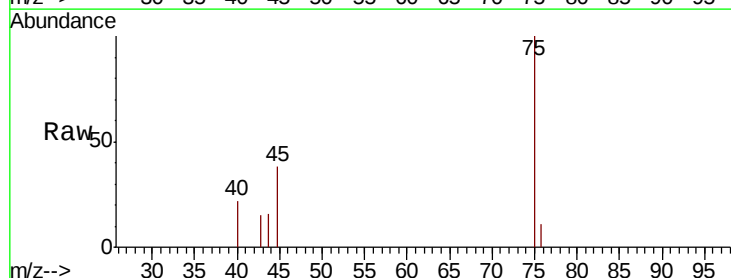
Tgt Ion: 43 Resp: 270

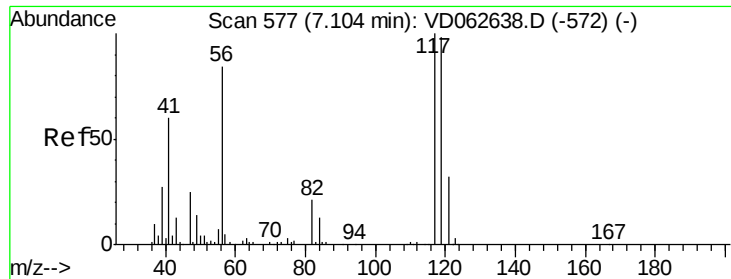
Ion Ratio Lower Upper

43 100

61 0.0 8.7 13.1#

70 0.0 6.5 9.7#





#38

Carbon Tetrachloride

Concen: 4.595 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.05 min

Lab File: VD062700.D

Acq: 13 Jun 2019 18:16

Instrument :

MSVOA_D

ClientSampleId :

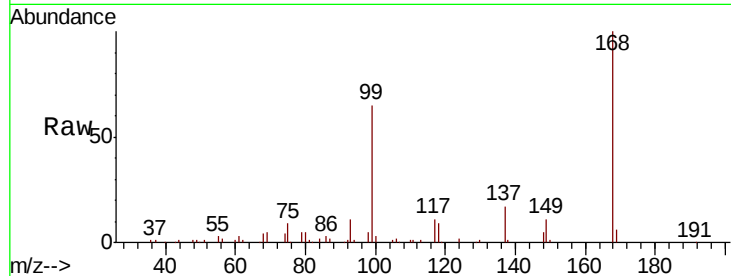
Tot Ion:117 Resp: 85161

Ion Ratio Lower Upper

117 100

119 4.3 73.5 110.3#

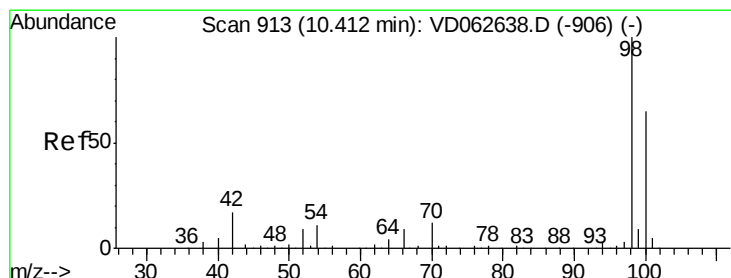
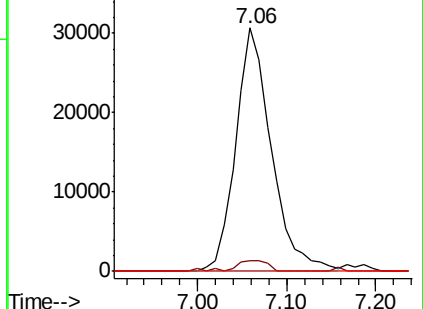
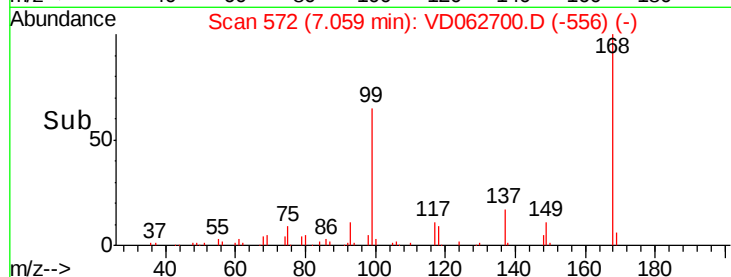
121 0.0 24.2 36.4#



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: 29.221 ug/l

RT: 10.43 min Scan# 914

Delta R.T. 0.01 min

Lab File: VD062700.D

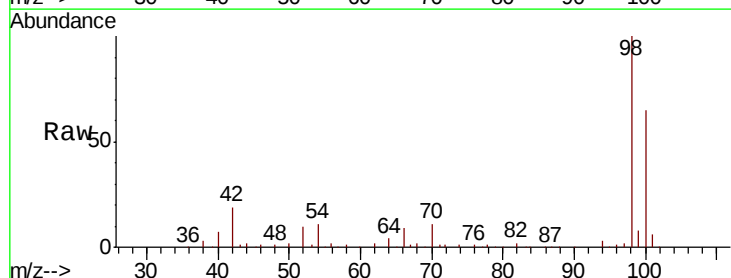
Acq: 13 Jun 2019 18:16

Tgt Ion: 98 Resp: 664184

Ion Ratio Lower Upper

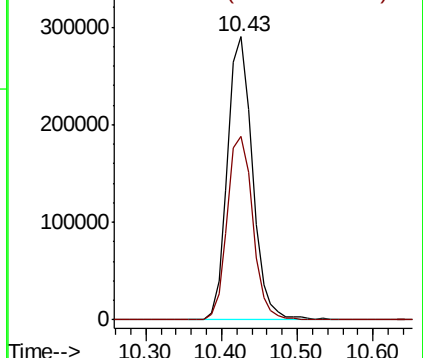
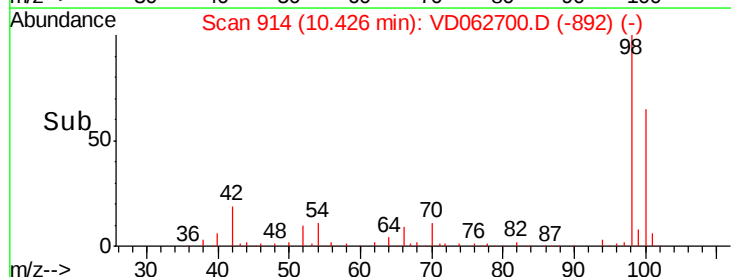
98 100

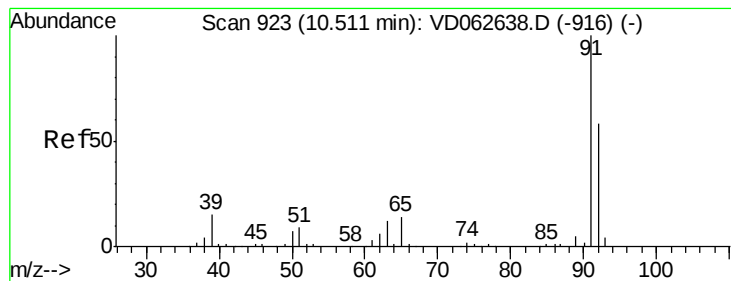
100 65.0 52.1 78.1



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#52

Toluene

Concen: 2.704 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.01 min

Lab File: VD062700.D

Acq: 13 Jun 2019 18:16

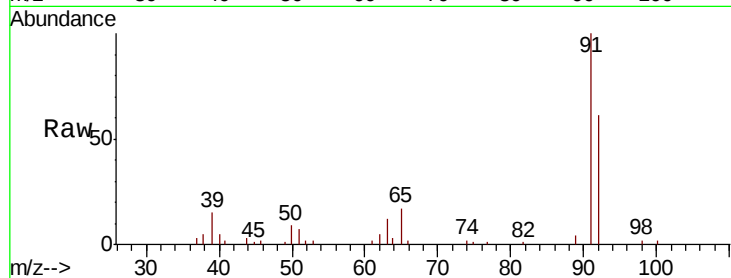
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 92 Resp: 41627

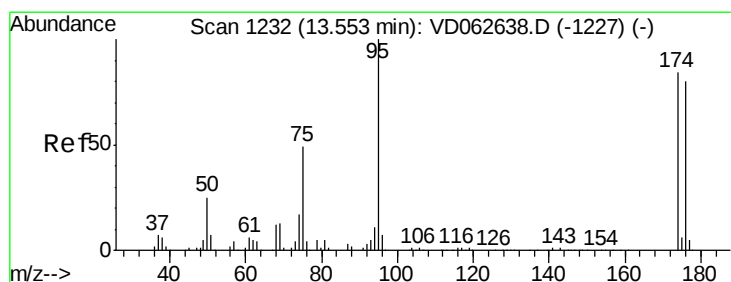
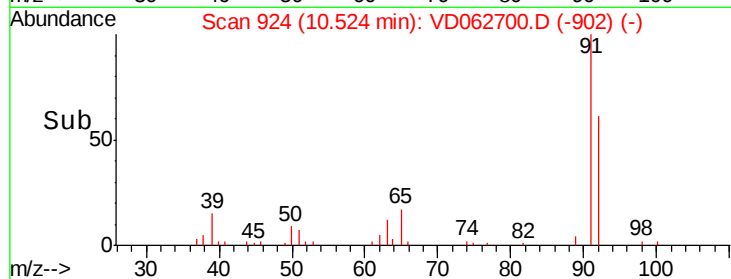
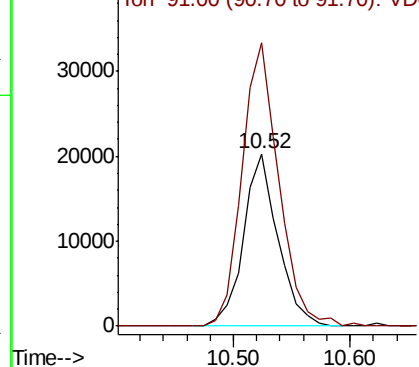
Ion Ratio Lower Upper

92 100

91 164.2 137.0 205.6



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: 33.279 ug/l

RT: 13.57 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD062700.D

Acq: 13 Jun 2019 18:16

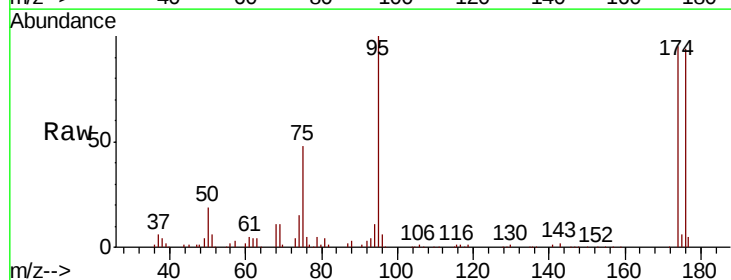
Tgt Ion: 95 Resp: 352893

Ion Ratio Lower Upper

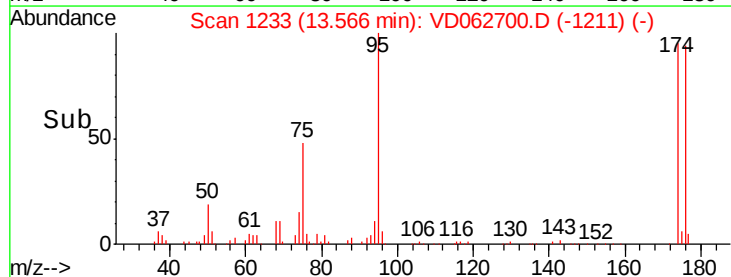
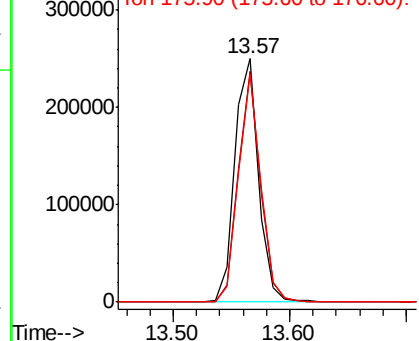
95 100

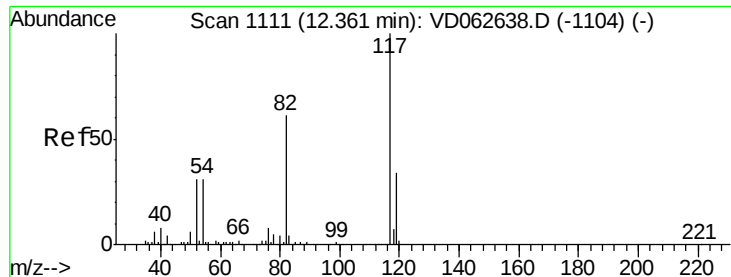
174 94.8 0.0 167.0

176 93.6 0.0 159.2



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

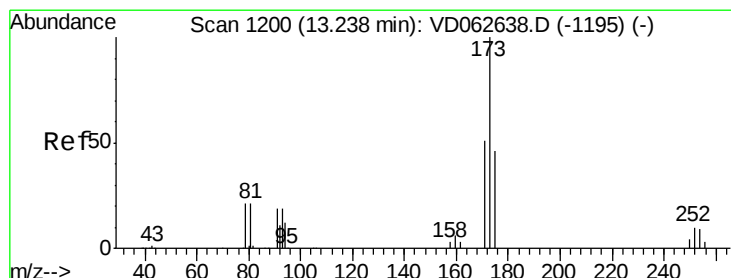
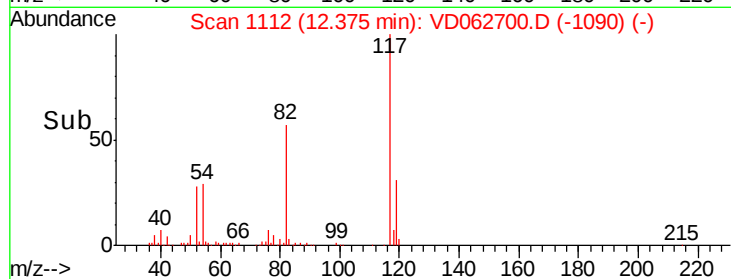
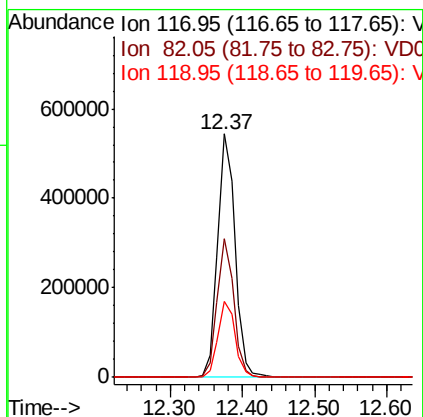
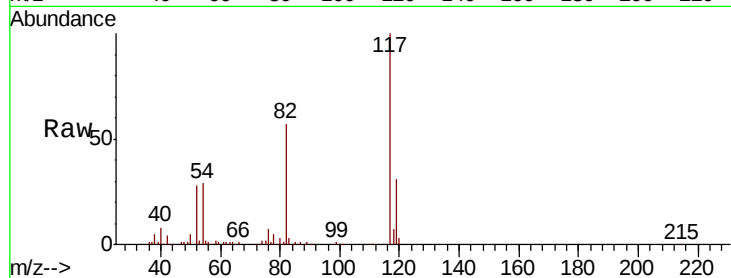




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD062700.D
Acq: 13 Jun 2019 18:16

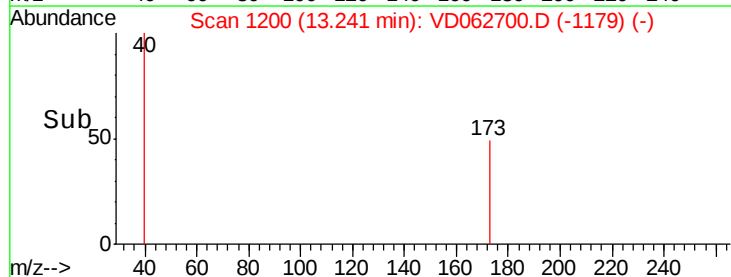
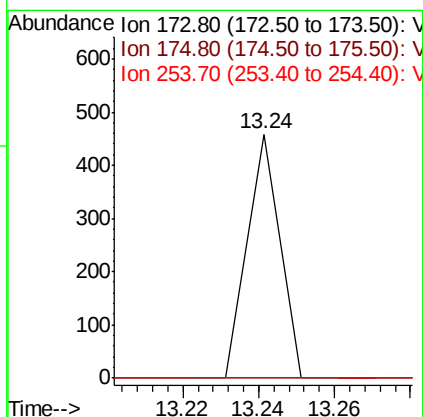
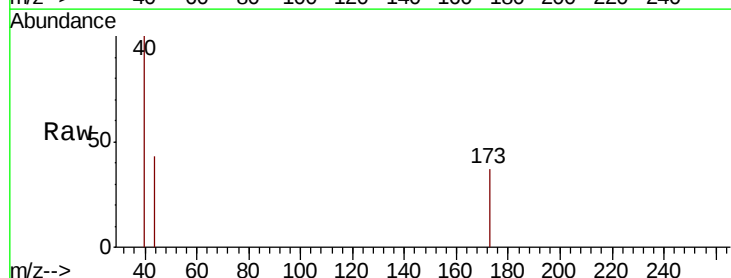
Instrument :
MSVOA_D
ClientSampleId :

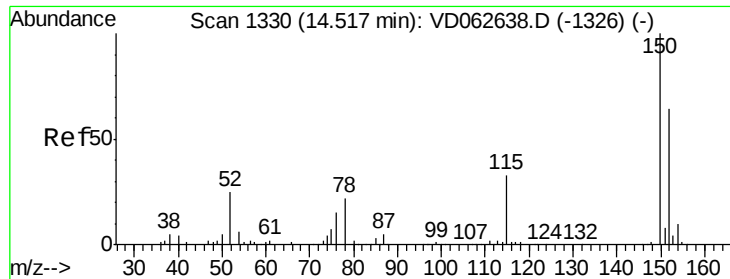
Tot Ion:117 Resp: 899385
Ion Ratio Lower Upper
117 100
82 56.7 48.7 73.1
119 31.2 27.0 40.6



#71
Bromoform
Concen: 2.866 ug/l
RT: 13.24 min Scan# 1200
Delta R.T. 0.00 min
Lab File: VD062700.D
Acq: 13 Jun 2019 18:16

Tgt Ion:173 Resp: 270
Ion Ratio Lower Upper
173 100
175 0.0 22.9 68.7#
254 0.0 7.0 10.4#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD062700.D

Acq: 13 Jun 2019 18:16

Instrument :

MSVOA_D

ClientSampleId :

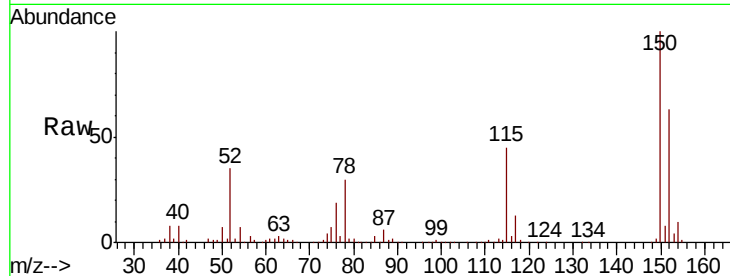
Tot Ion:152 Resp: 496673

Ion Ratio Lower Upper

152 100

115 70.7 30.1 90.5

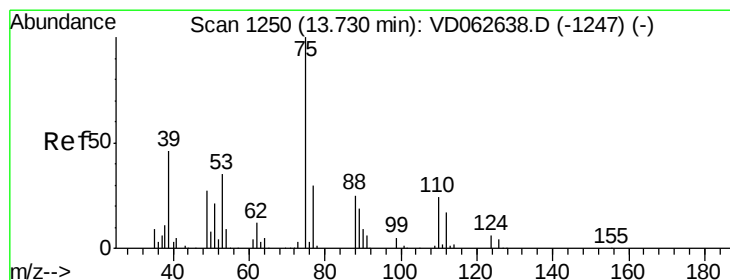
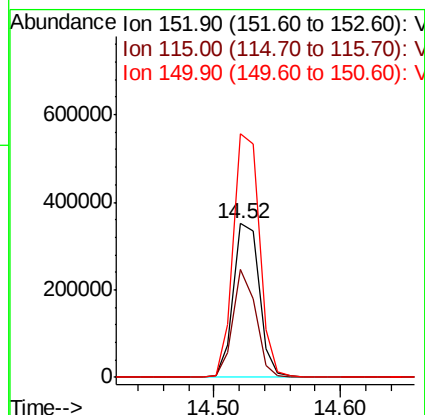
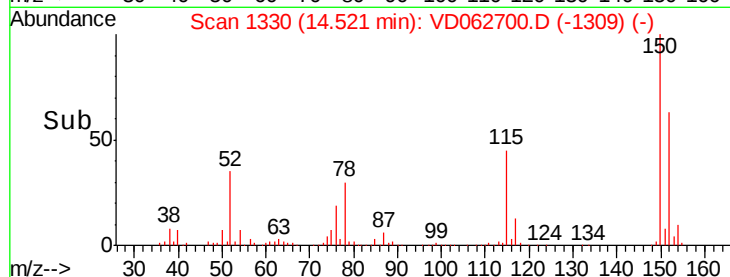
150 158.7 0.0 314.0



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



#76

1,2,3-Trichloropropane

Concen: 24.426 ug/l

RT: 13.57 min Scan# 1233

Delta R.T. -0.16 min

Lab File: VD062700.D

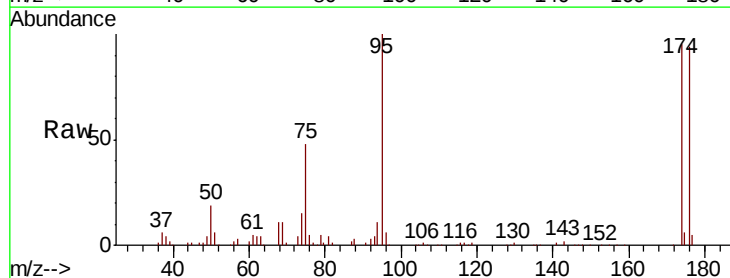
Acq: 13 Jun 2019 18:16

Tgt Ion: 75 Resp: 164495

Ion Ratio Lower Upper

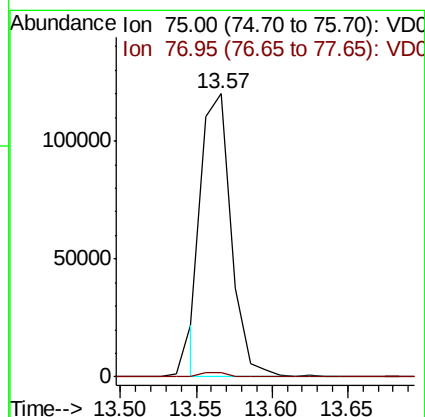
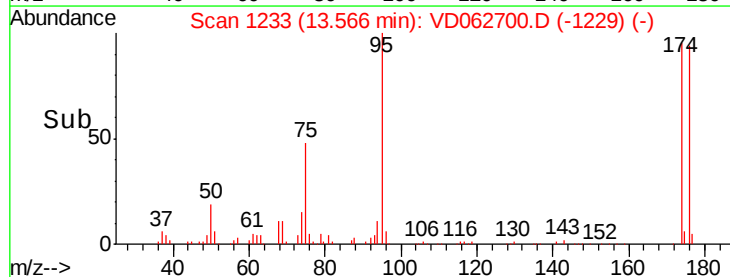
75 100

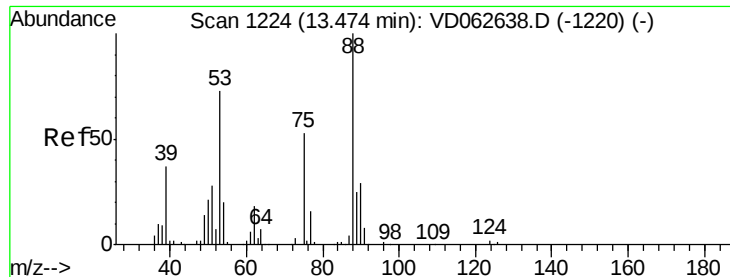
77 1.6 16.2 48.6#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 86.216 ug/l

RT: 13.57 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD062700.D

Acq: 13 Jun 2019 18:16

Instrument :

MSVOA_D

ClientSampleId :

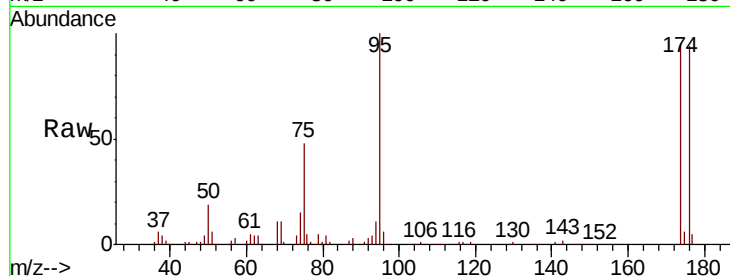
Tot Ion: 75 Resp: 178295

Ion Ratio Lower Upper

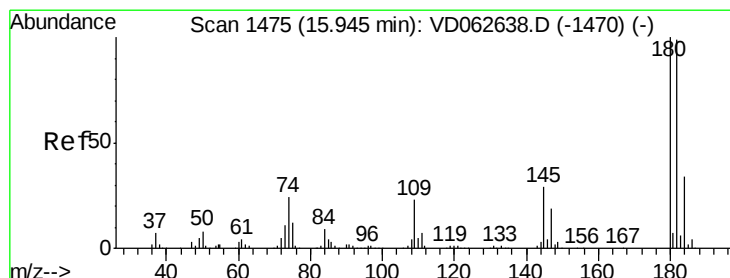
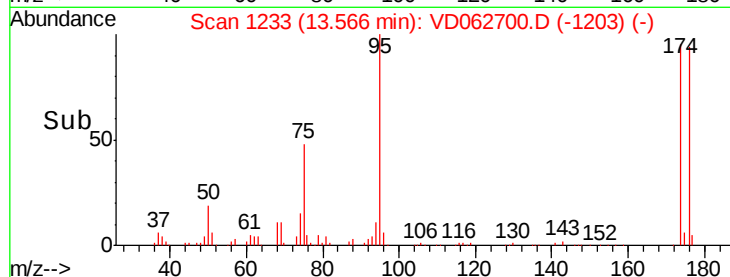
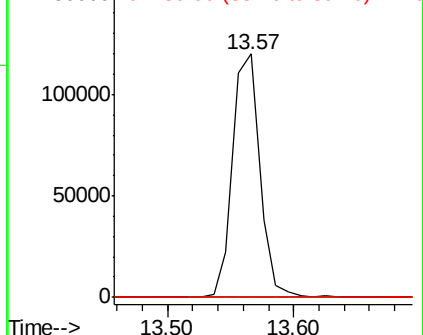
75 100

53 0.0 109.4 164.2#

89 0.0 37.0 55.6#



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



#93

1,2,4-Trichlorobenzene

Concen: 3.655 ug/l

RT: 15.95 min Scan# 1475

Delta R.T. 0.00 min

Lab File: VD062700.D

Acq: 13 Jun 2019 18:16

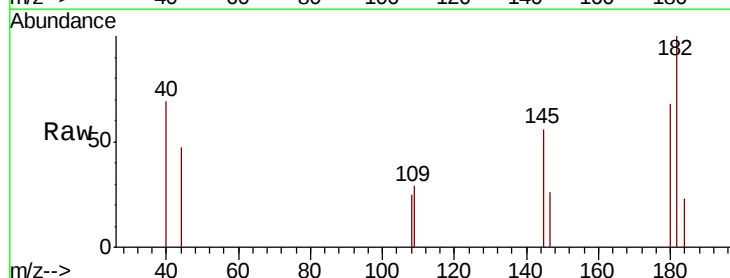
Tgt Ion:180 Resp: 1189

Ion Ratio Lower Upper

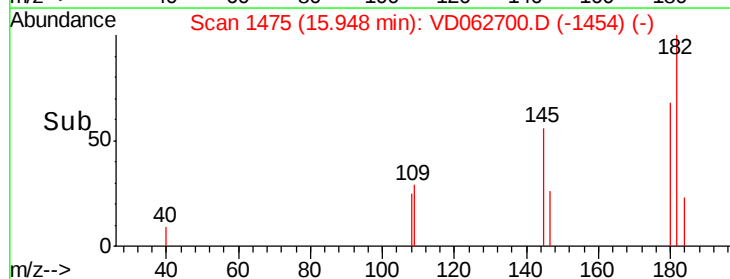
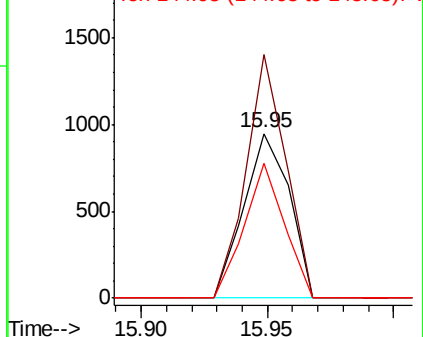
180 100

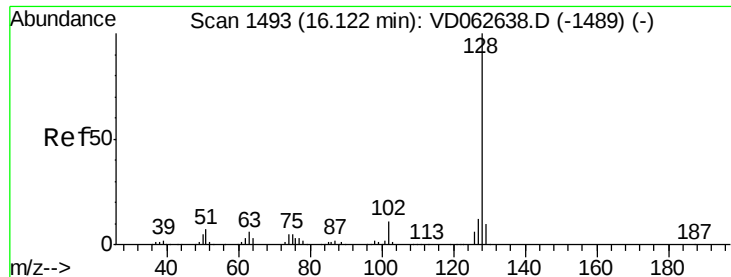
182 147.9 49.4 148.2

145 82.2 14.5 43.6#



Abundance Ion 179.85 (179.55 to 180.55): V
Ion 181.85 (181.55 to 182.55): V
Ion 144.95 (144.65 to 145.65): V





#95
 Naphthalene
 Concen: 3.734 ug/l
 RT: 16.13 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VD062700.D
 Acq: 13 Jun 2019 18:16

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:128 Resp: 5511
 Ion Ratio Lower Upper
 128 100
 127 14.2 9.7 14.5
 129 8.3 8.1 12.1

