

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061319\
 Data File : VD062691.D
 Acq On : 13 Jun 2019 13:50
 Operator : VA/AP
 Sample : K3285-01RE
 Misc : 6.70g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 14 06:46:24 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	625847	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	828218	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	679386	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.53	152	357982	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	435520	48.23	ug/l	0.02
Spiked Amount			Recovery	=	96.46%	
35) Dibromofluoromethane	6.94	113	421376	48.24	ug/l	0.02
Spiked Amount			Recovery	=	96.48%	
50) Toluene-d8	10.42	98	766078	41.69	ug/l	0.01
Spiked Amount			Recovery	=	83.38%	
62) 4-Bromofluorobenzene	13.56	95	386220	45.05	ug/l	0.01
Spiked Amount			Recovery	=	90.10%	

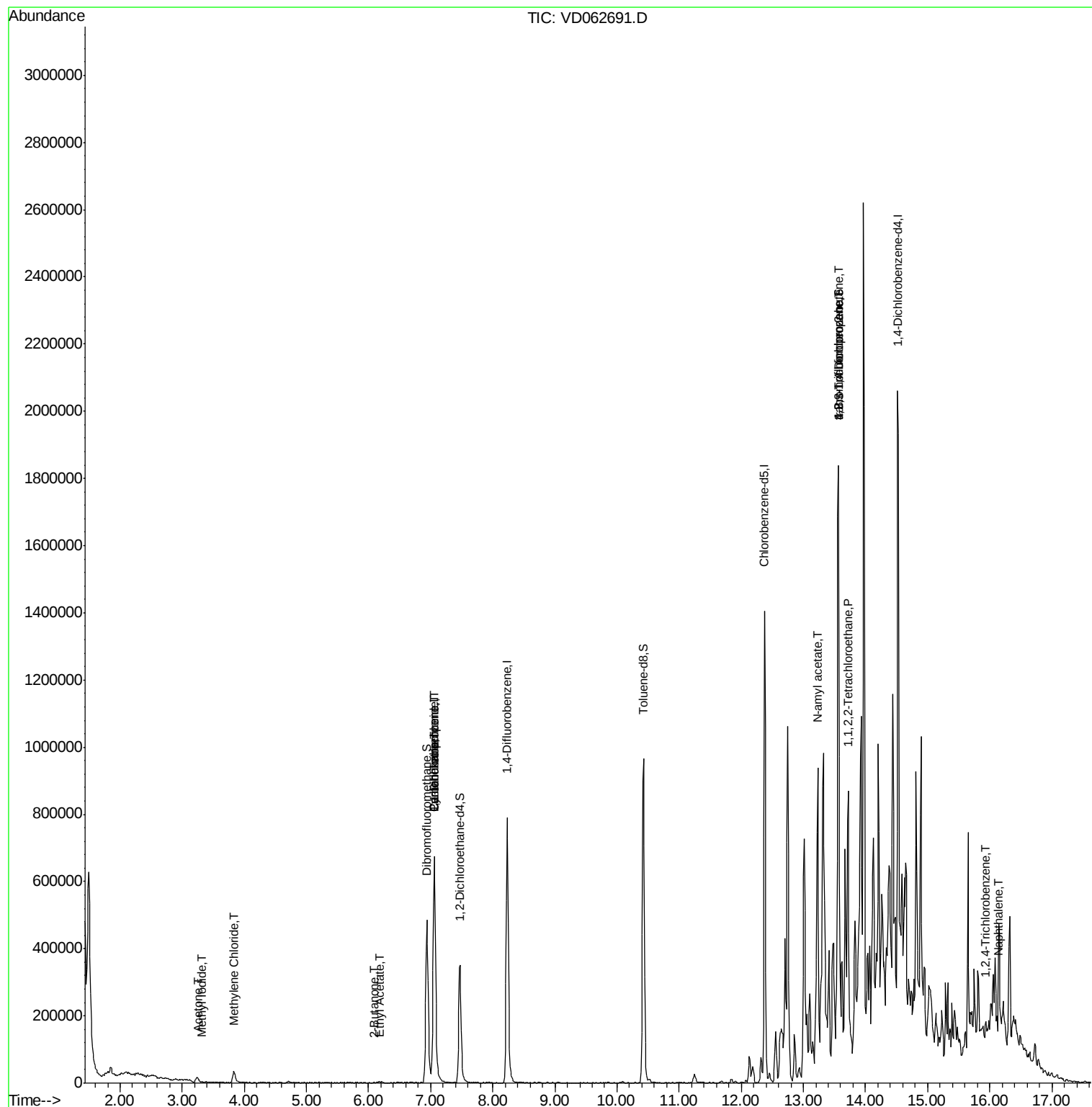
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	923	Below Cal	#	42
10) Methyl Iodide	3.32	142	1686	4.147	ug/l #	24
16) Acetone	3.25	43	32715	19.783	ug/l #	93
20) Methylene Chloride	3.83	84	23286	3.314	ug/l	86
25) 2-Butanone	6.08	43	1767	1.095	ug/l #	61
31) Cyclohexane	7.06	56	17379	2.439	ug/l #	22
36) 1,1-Dichloropropene	7.06	75	53690	5.664	ug/l #	50
37) Ethyl Acetate	6.17	43	186	1.246	ug/l #	74
38) Carbon Tetrachloride	7.06	117	69366	4.630	ug/l #	16
74) N-amyl acetate	13.23	43	117063	17.167	ug/l #	56
75) 1,1,2,2-Tetrachloroethane	13.72	83	40014	9.268	ug/l #	50
76) 1,2,3-Trichloropropane	13.56	75	170748	35.178	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.56	75	184962	122.380	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.95	180	1648	3.734	ug/l #	80
95) Naphthalene	16.12	128	7245	3.969	ug/l #	94

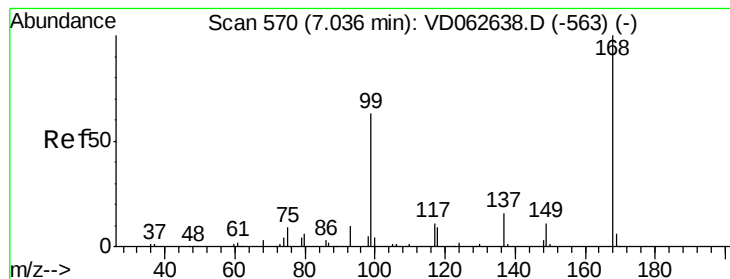
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
Quant Title : SW846 8260
QLast Update : Sat Jun 08 00:02:21 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD062691.D

Acq: 13 Jun 2019 13:50

Instrument :

MSVOA_D

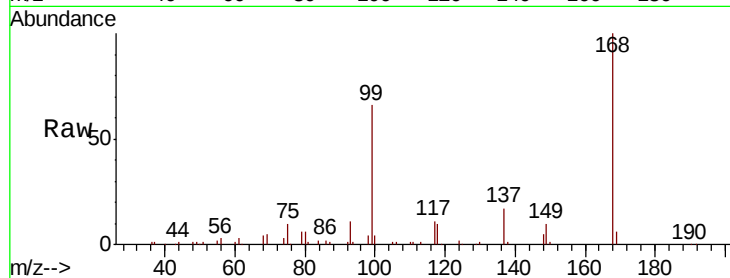
ClientSampleId :

Tot Ion:168 Resp: 625847

Ion Ratio Lower Upper

168 100

99 65.6 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

250000

200000

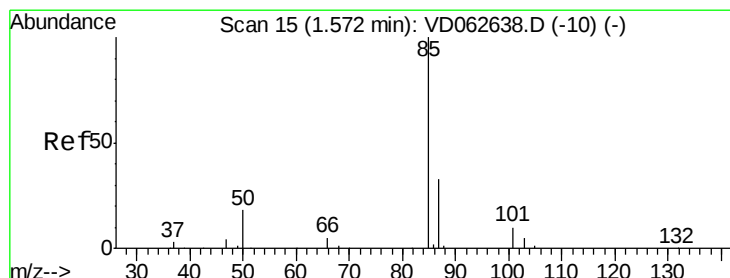
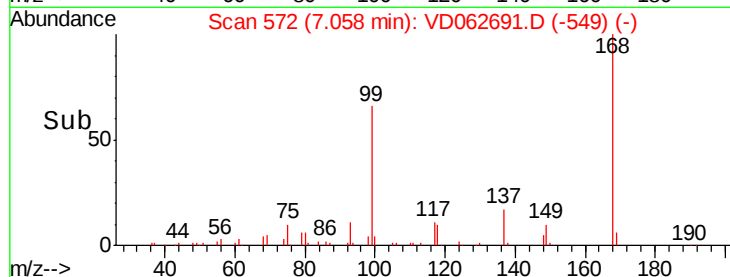
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.58 min Scan# 16

Delta R.T. 0.01 min

Lab File: VD062691.D

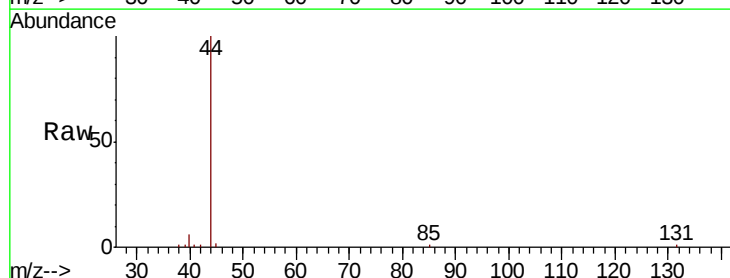
Acq: 13 Jun 2019 13:50

Tgt Ion: 85 Resp: 923

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

1.58

800

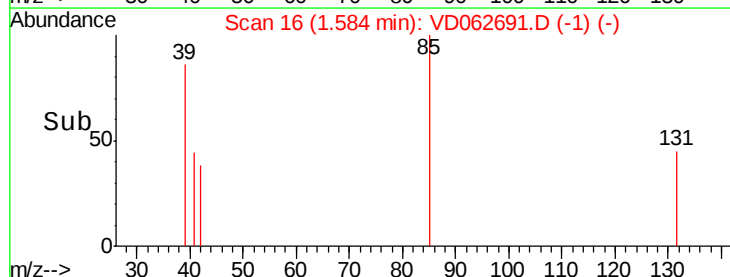
600

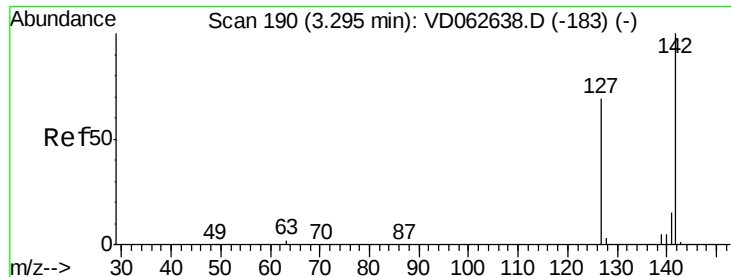
400

200

0

Time-->

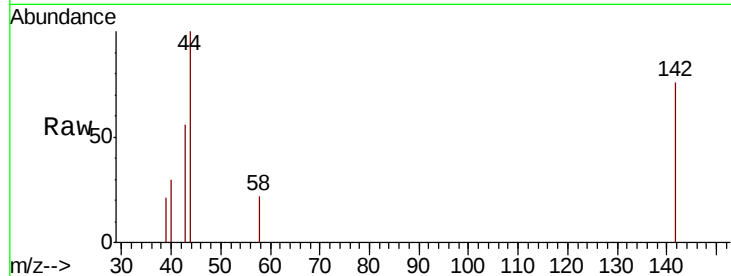




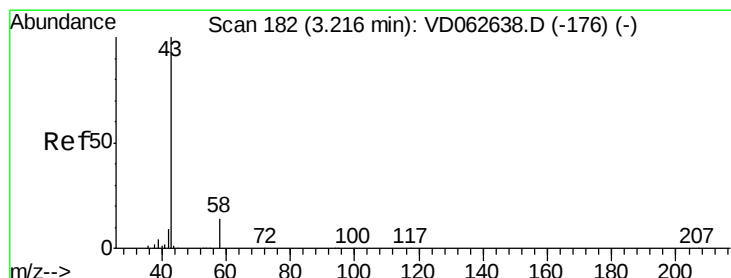
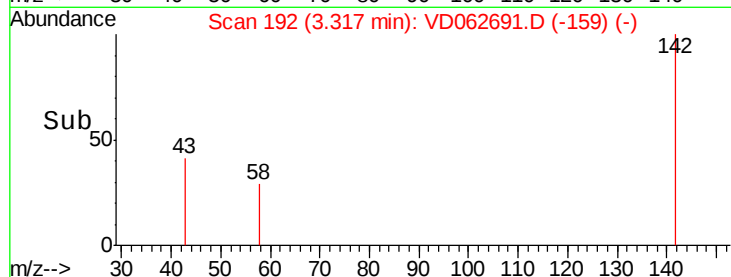
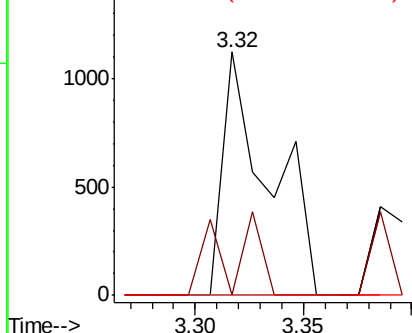
#10
Methvl Iodide
Concen: 4.147 ug/l
RT: 3.32 min Scan# 192
Delta R.T. 0.02 min
Lab File: VD062691.D
Acq: 13 Jun 2019 13:50

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:142 Resp: 1686
Ion Ratio Lower Upper
142 100
127 0.0 55.2 82.8#
141 0.0 12.1 18.1#

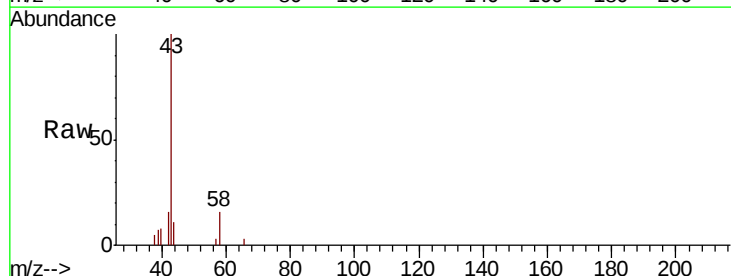


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

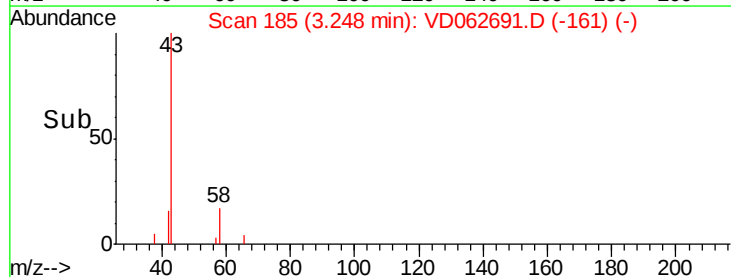
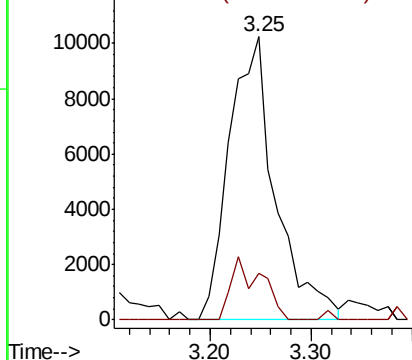


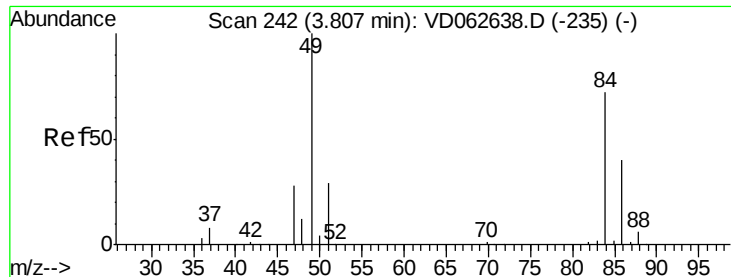
#16
Acetone
Concen: 19.783 ug/l
RT: 3.25 min Scan# 185
Delta R.T. 0.03 min
Lab File: VD062691.D
Acq: 13 Jun 2019 13:50

Tgt Ion: 43 Resp: 32715
Ion Ratio Lower Upper
43 100
58 16.3 10.8 16.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

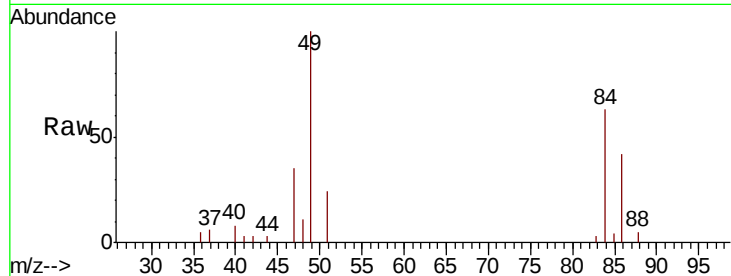




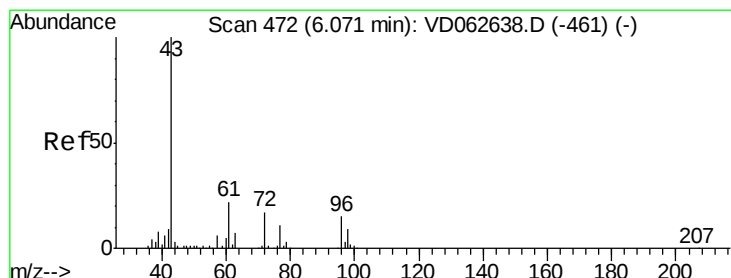
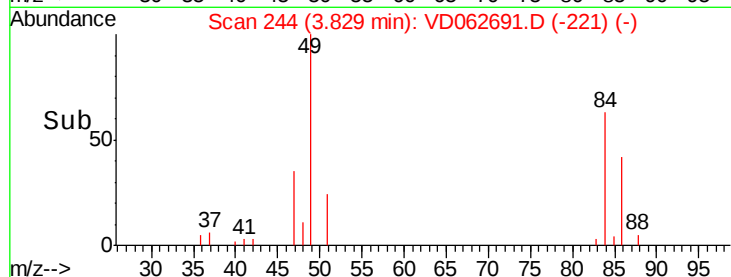
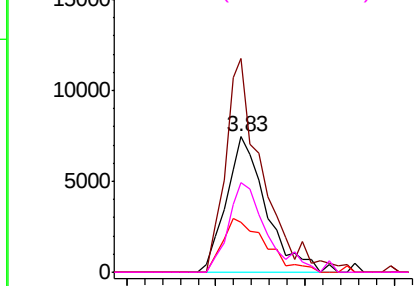
#20
Methvlene Chloride
Concen: 3.314 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.02 min
Lab File: VD062691.D
Acq: 13 Jun 2019 13:50

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 23286
Ion Ratio Lower Upper
84 100
49 158.0 111.2 166.8
51 37.3 31.9 47.9
86 66.7 44.7 67.1

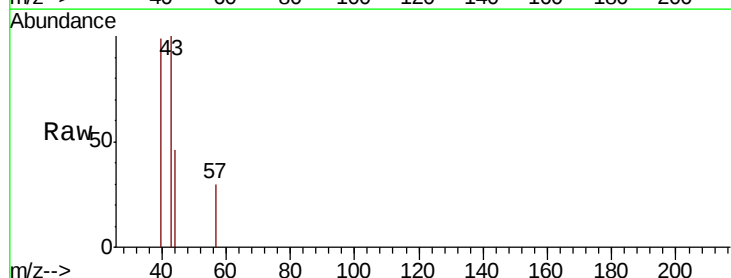


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

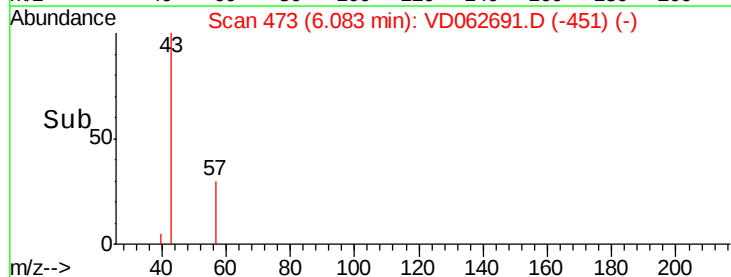
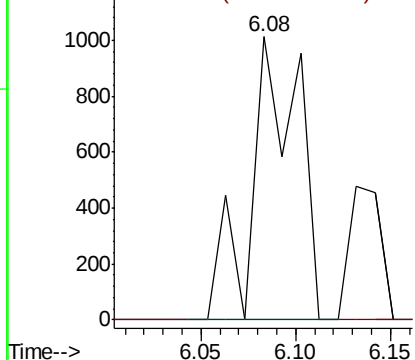


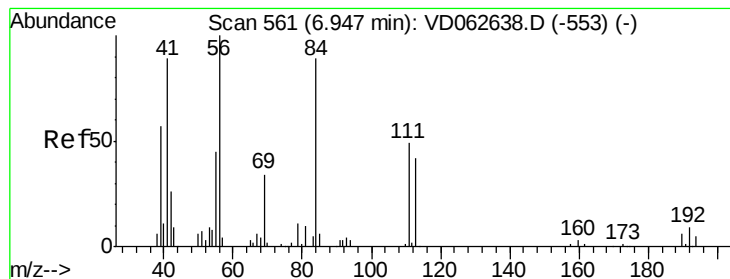
#25
2-Butanone
Concen: 1.095 ug/l
RT: 6.08 min Scan# 473
Delta R.T. 0.01 min
Lab File: VD062691.D
Acq: 13 Jun 2019 13:50

Tgt Ion: 43 Resp: 1767
Ion Ratio Lower Upper
43 100
72 0.0 13.5 20.3#



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





#31

Cyclohexane

Concen: 2.439 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.11 min

Lab File: VD062691.D

Acq: 13 Jun 2019 13:50

Instrument :

MSVOA_D

ClientSampled :

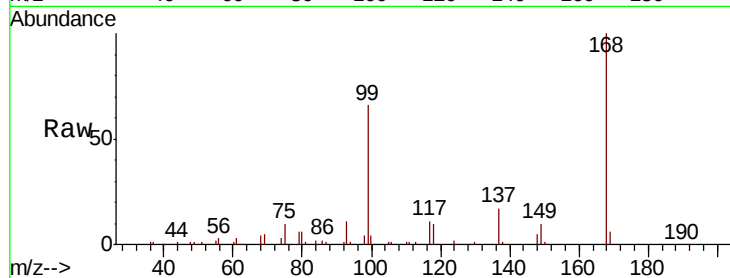
Tot Ion: 56 Resp: 17379

Ion Ratio Lower Upper

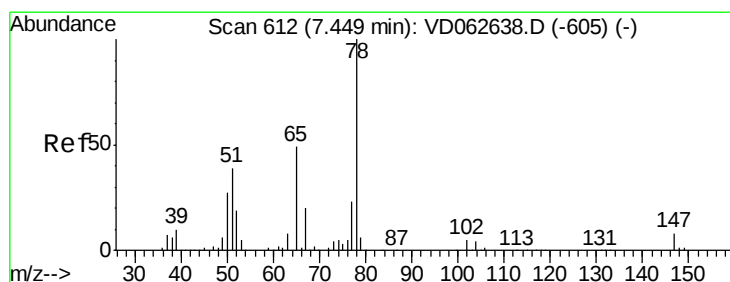
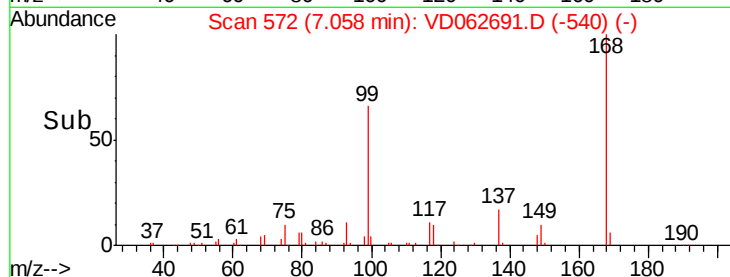
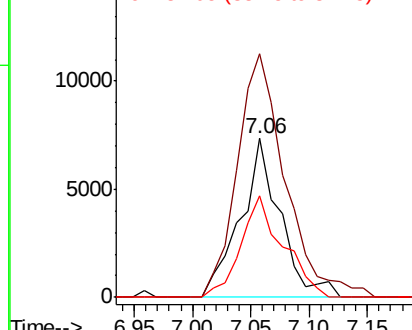
56 100

69 153.3 26.8 40.2#

84 64.0 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: 48.225 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.02 min

Lab File: VD062691.D

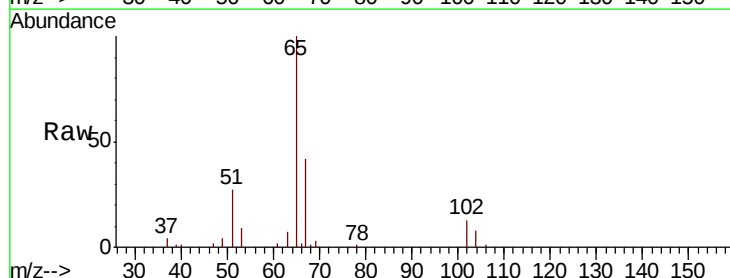
Acq: 13 Jun 2019 13:50

Tgt Ion: 65 Resp: 435520

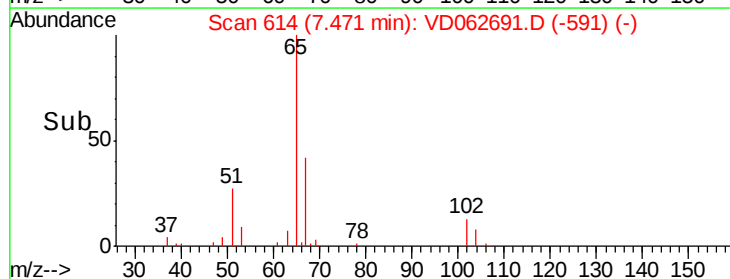
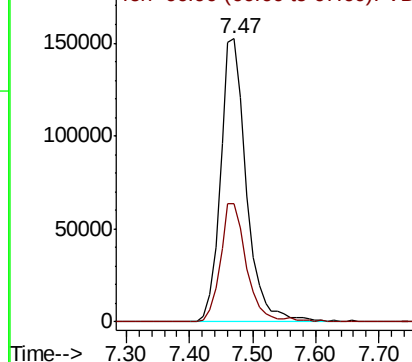
Ion Ratio Lower Upper

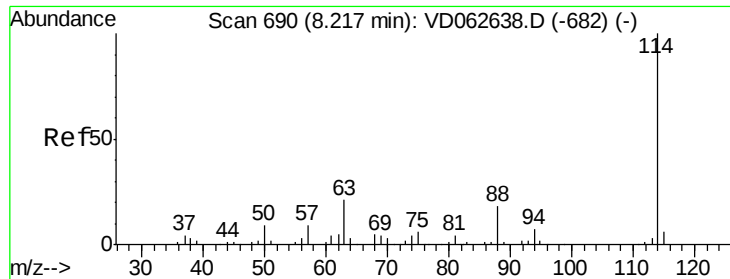
65 100

67 41.6 0.0 81.8



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

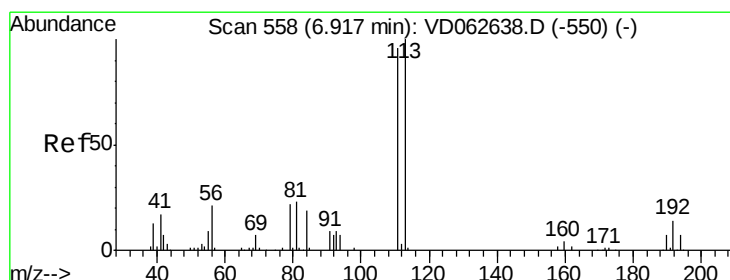
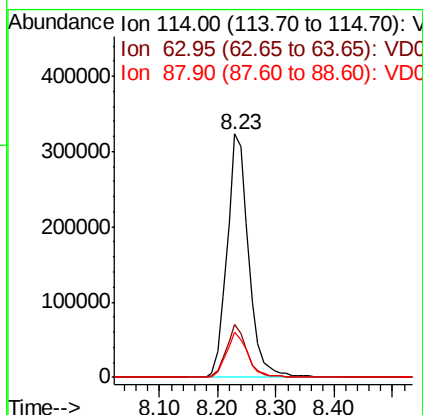
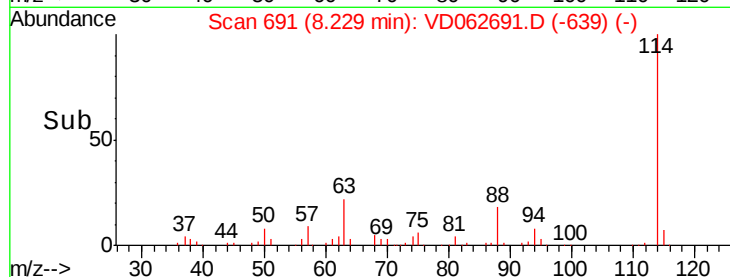
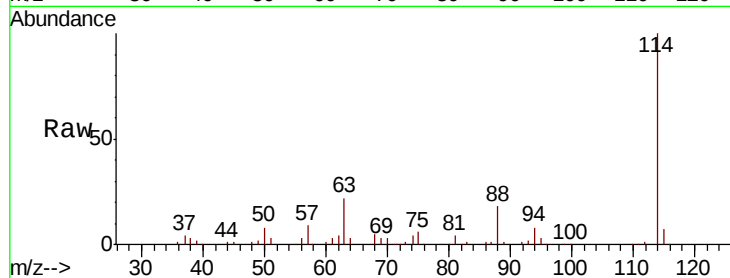




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.23 min Scan# 691
Delta R.T. 0.01 min
Lab File: VD062691.D
Acq: 13 Jun 2019 13:50

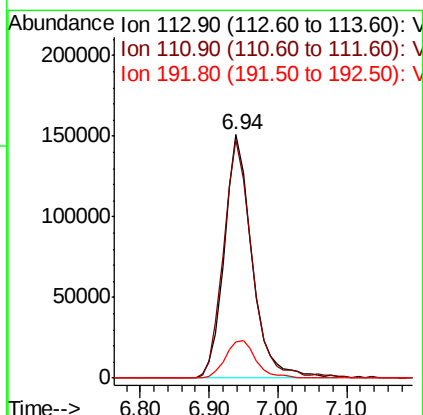
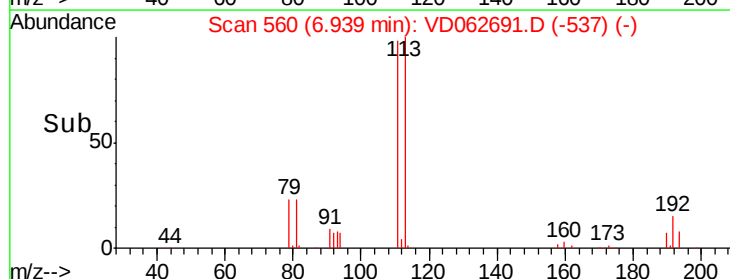
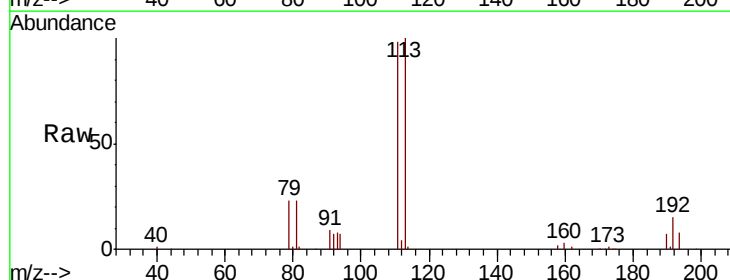
Instrument :
MSVOA_D
ClientSampleId :

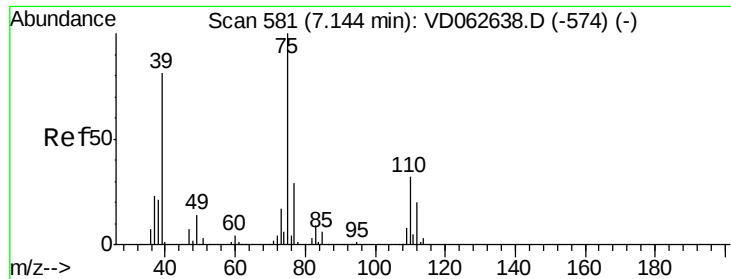
Tot Ion:114 Resp: 828218
Ion Ratio Lower Upper
114 100
63 21.9 0.0 42.4
88 18.4 0.0 36.8



#35
Dibromofluoromethane
Concen: 48.242 ug/l
RT: 6.94 min Scan# 560
Delta R.T. 0.02 min
Lab File: VD062691.D
Acq: 13 Jun 2019 13:50

Tgt Ion:113 Resp: 421376
Ion Ratio Lower Upper
113 100
111 97.8 76.4 114.6
192 14.6 11.4 17.0





#36

1,1-Dichloropropene

Concen: 5.664 ug/l

RT: 7.06 min Scan# 572

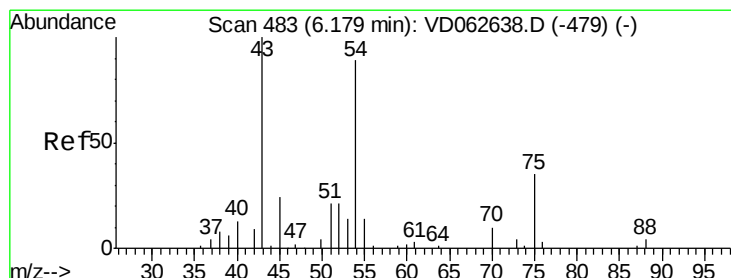
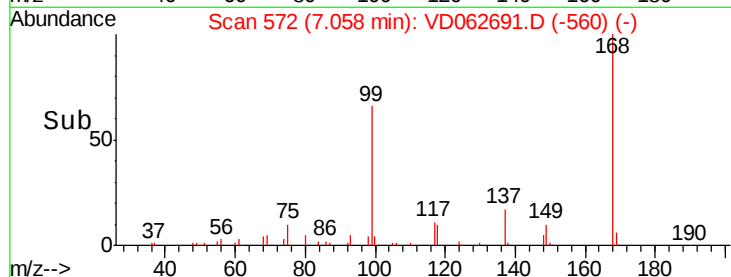
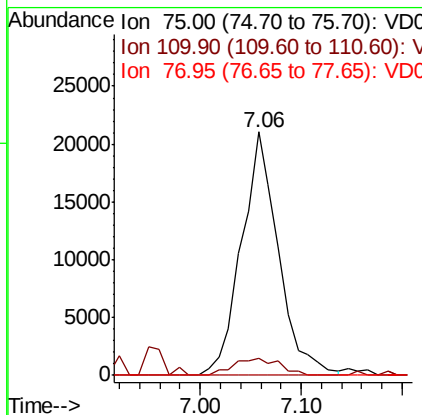
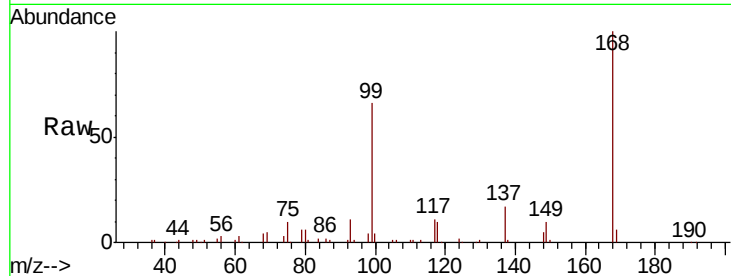
Delta R.T. -0.09 min

Lab File: VD062691.D

Acq: 13 Jun 2019 13:50

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:	75	Resp:	53690
Ion	Ratio	Lower	Upper
75	100		
110	6.8	15.9	47.7#
77	0.0	23.3	34.9#



#37

Ethyl Acetate

Concen: 1.246 ug/l

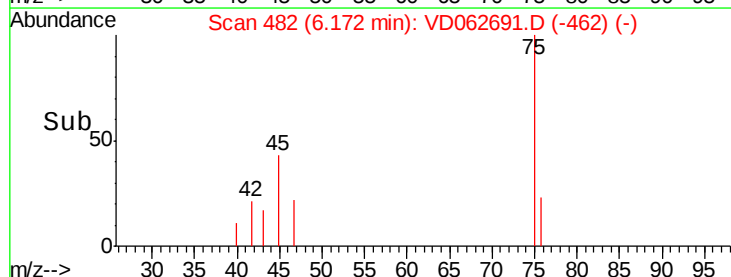
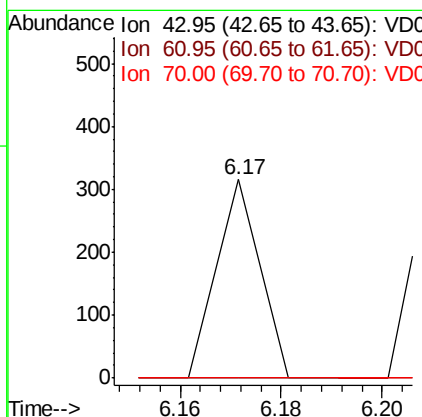
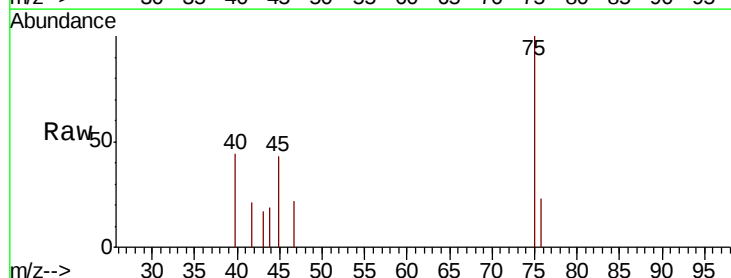
RT: 6.17 min Scan# 482

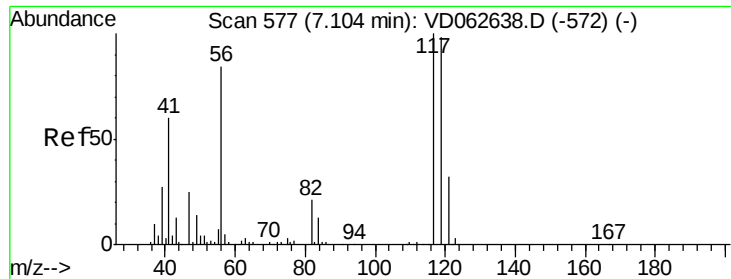
Delta R.T. -0.01 min

Lab File: VD062691.D

Acq: 13 Jun 2019 13:50

Tgt Ion:	43	Resp:	186
Ion	Ratio	Lower	Upper
43	100		
61	0.0	8.7	13.1#
70	0.0	6.5	9.7#

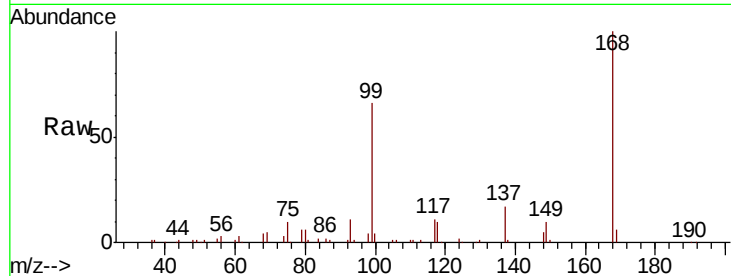




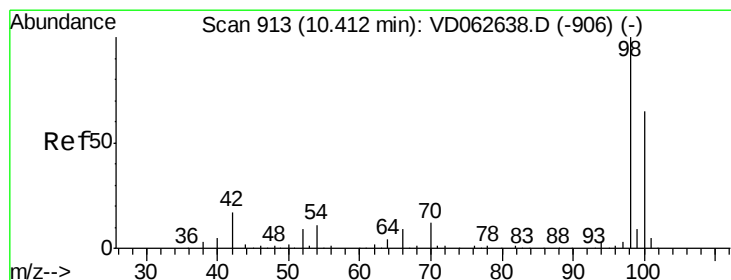
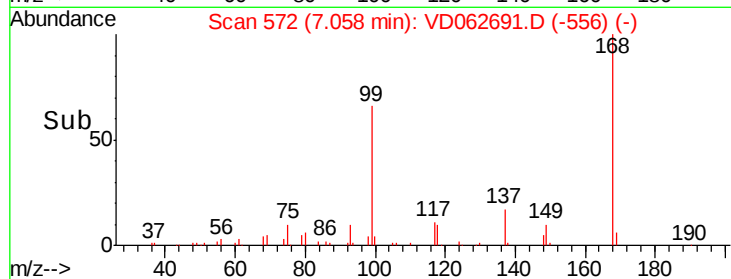
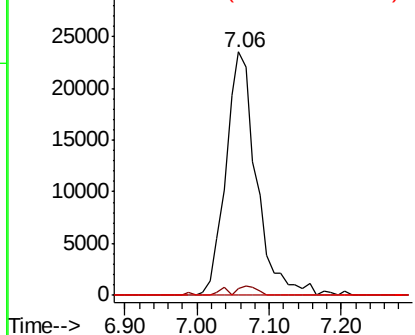
#38
Carbon Tetrachloride
Concen: 4.630 ug/l
RT: 7.06 min Scan# 572
Delta R.T. -0.05 min
Lab File: VD062691.D
Acq: 13 Jun 2019 13:50

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 69366
Ion Ratio Lower Upper
117 100
119 2.9 73.5 110.3#
121 0.0 24.2 36.4#

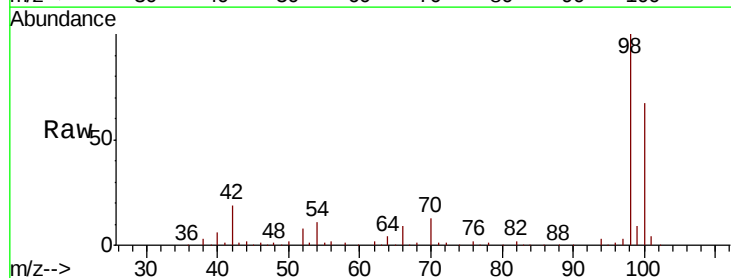


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

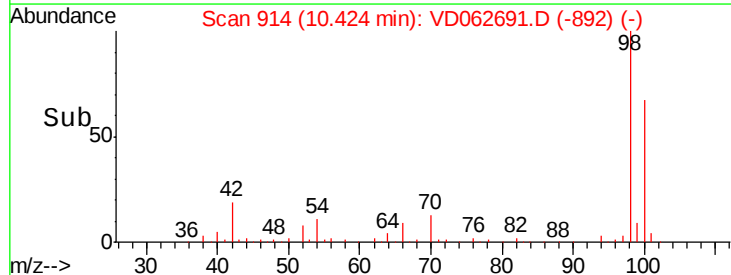
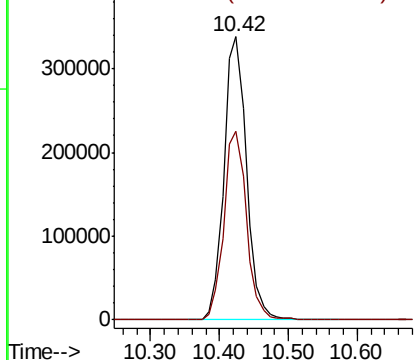


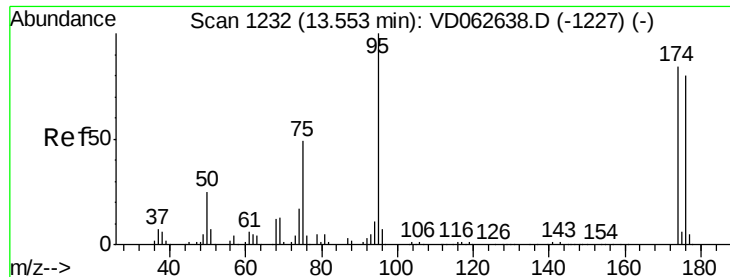
#50
Toluene-d8
Concen: 41.692 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.01 min
Lab File: VD062691.D
Acq: 13 Jun 2019 13:50

Tgt Ion: 98 Resp: 766078
Ion Ratio Lower Upper
98 100
100 66.7 52.1 78.1



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VD





#62

4-Bromofluorobenzene

Concen: 45.054 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD062691.D

Acq: 13 Jun 2019 13:50

Instrument :

MSVOA_D

ClientSampleId :

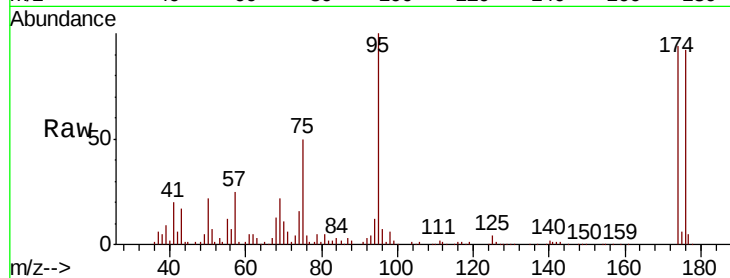
Tot Ion: 95 Resp: 386220

Ion Ratio Lower Upper

95 100

174 93.6 0.0 167.0

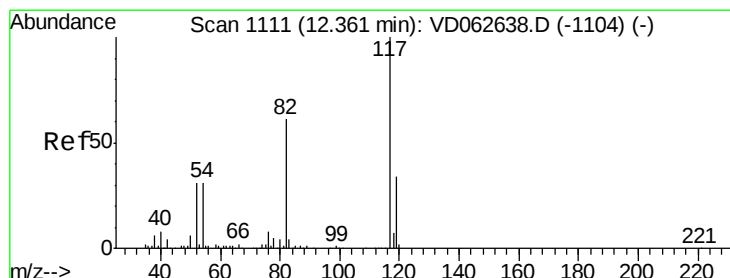
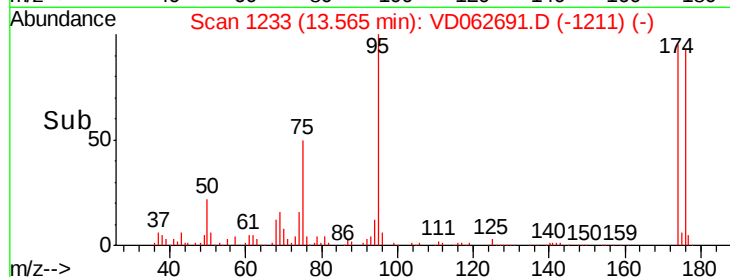
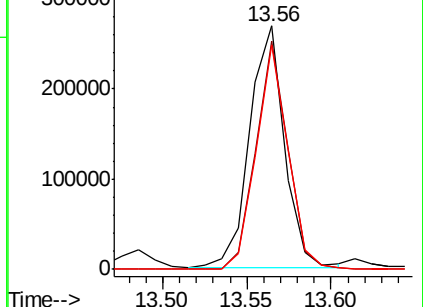
176 92.1 0.0 159.2



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: 50.000 ug/l

RT: 12.37 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VD062691.D

Acq: 13 Jun 2019 13:50

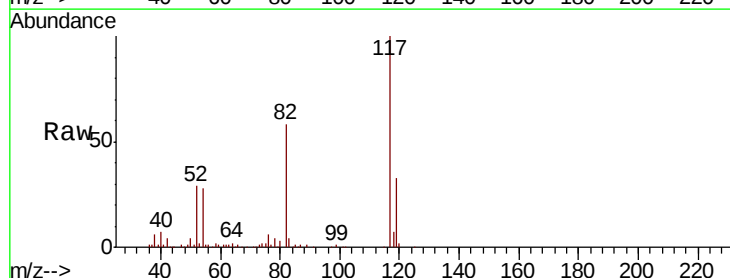
Tgt Ion: 117 Resp: 679386

Ion Ratio Lower Upper

117 100

82 57.7 48.7 73.1

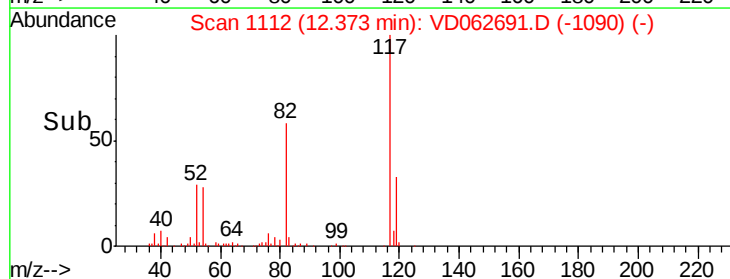
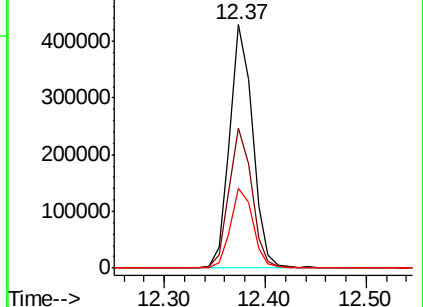
119 32.6 27.0 40.6

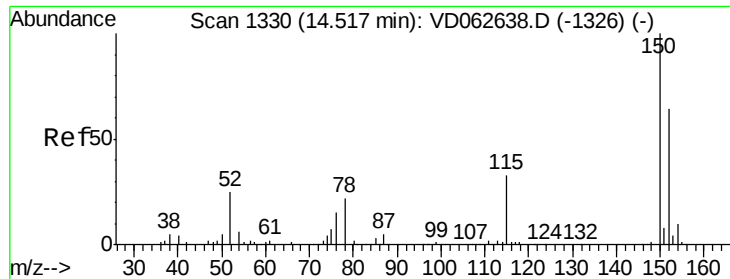


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.53 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD062691.D

Acq: 13 Jun 2019 13:50

Instrument :

MSVOA_D

ClientSampled :

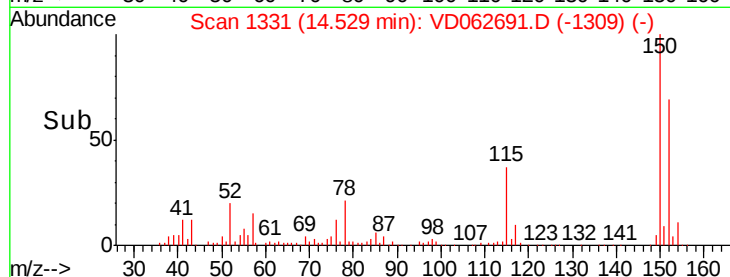
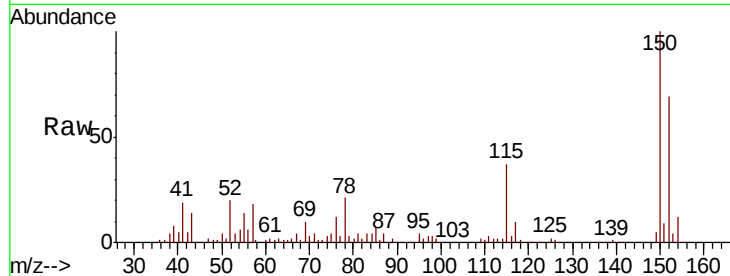
Tot Ion:152 Resp: 357982

Ion Ratio Lower Upper

152 100

115 54.2 30.1 90.5

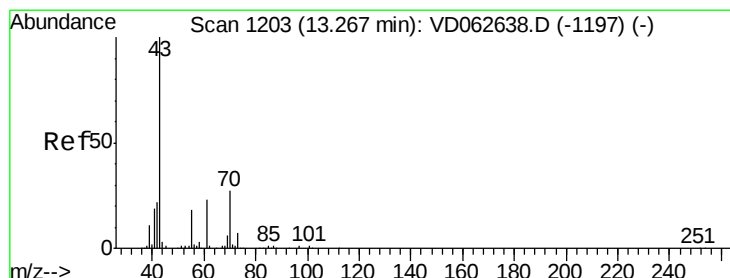
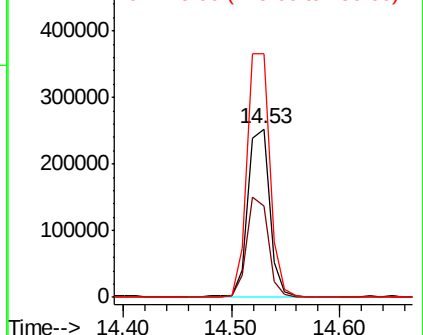
150 144.5 0.0 314.0



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



#74

N-amil acetate

Concen: 17.167 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. -0.04 min

Lab File: VD062691.D

Acq: 13 Jun 2019 13:50

Tgt Ion: 43 Resp: 117063

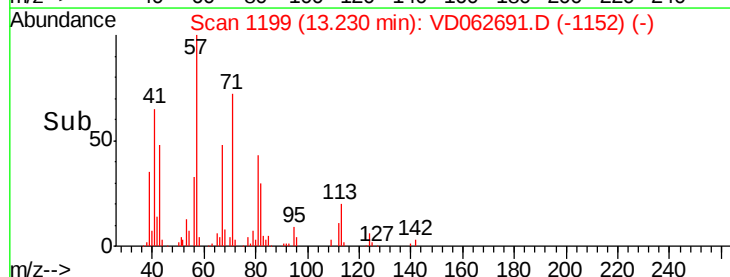
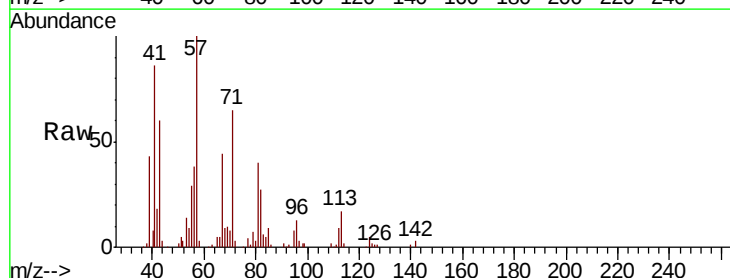
Ion Ratio Lower Upper

43 100

70 13.6 21.8 32.8#

55 48.1 14.6 21.8#

61 0.0 18.4 27.6#

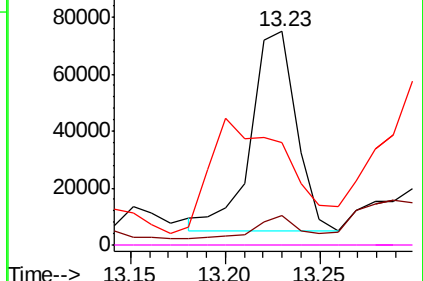


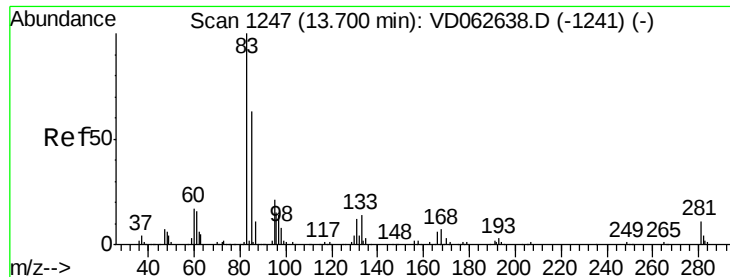
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 9.268 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. 0.02 min

Lab File: VD062691.D

Acq: 13 Jun 2019 13:50

Instrument :

MSVOA_D

ClientSampled :

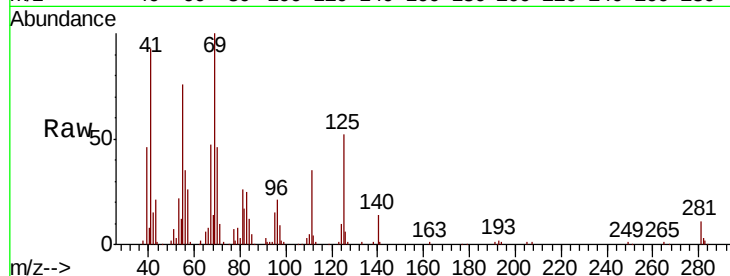
Tot Ion: 83 Resp: 40014

Ion Ratio Lower Upper

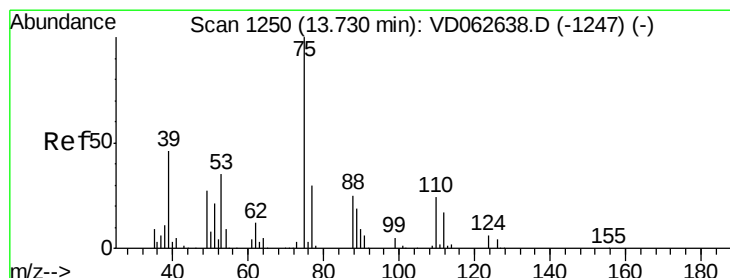
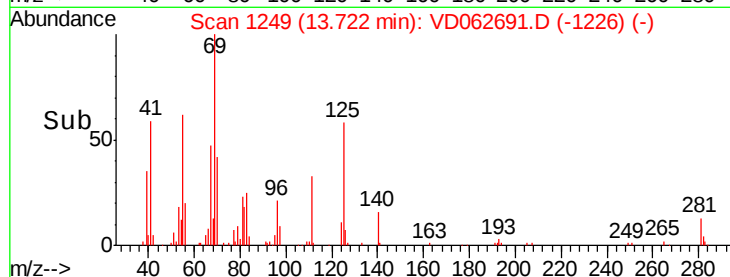
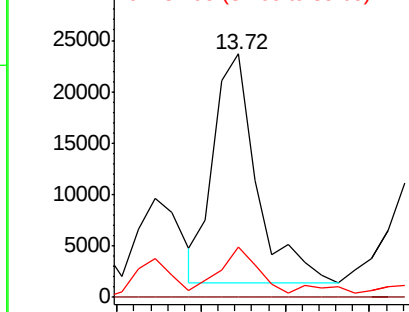
83 100

131 0.0 5.9 17.7#

85 20.8 31.3 93.9#



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 130.90 (130.60 to 131.60): VDC
Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 35.178 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.17 min

Lab File: VD062691.D

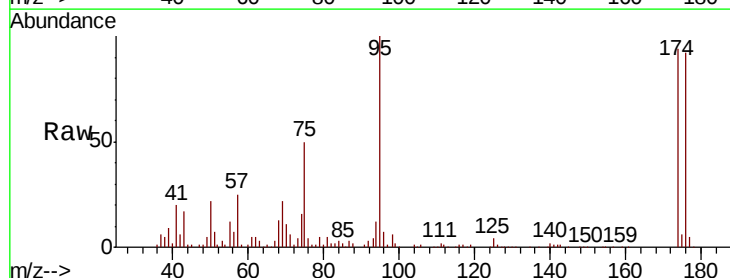
Acq: 13 Jun 2019 13:50

Tgt Ion: 75 Resp: 170748

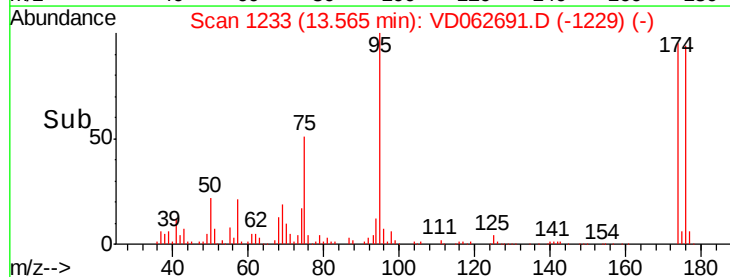
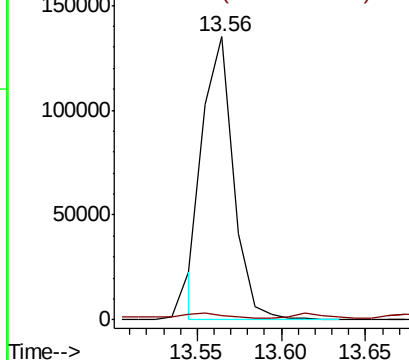
Ion Ratio Lower Upper

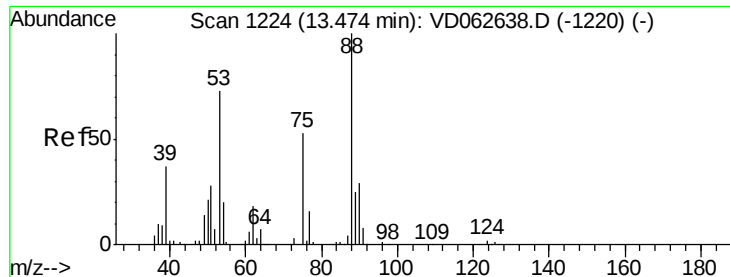
75 100

77 1.7 16.2 48.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 122.380 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD062691.D

Acq: 13 Jun 2019 13:50

Instrument :

MSVOA_D

ClientSampleId :

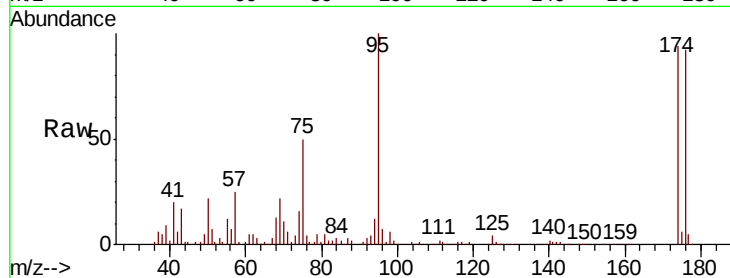
Tot Ion: 75 Resp: 184962

Ion Ratio Lower Upper

75 100

53 6.2 109.4 164.2#

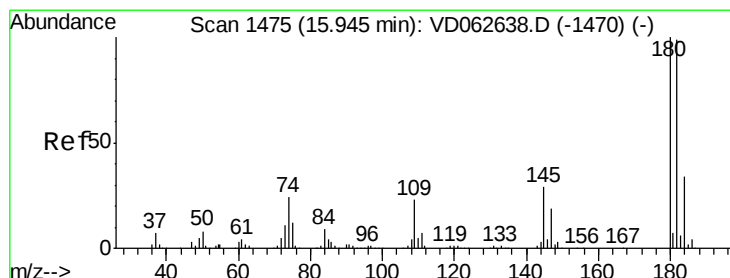
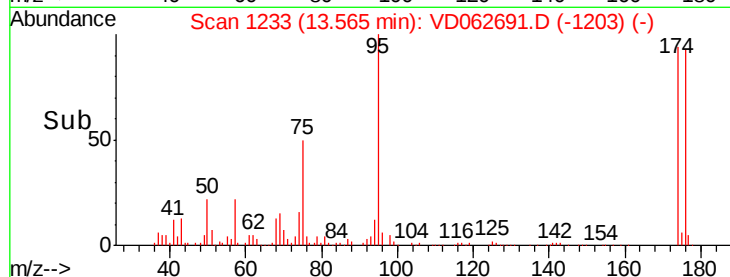
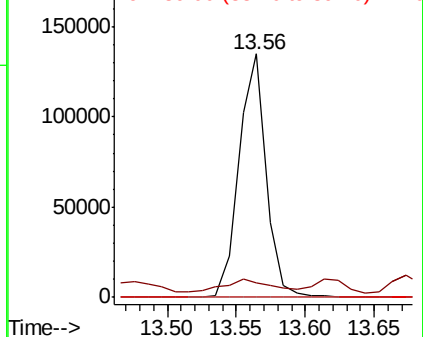
89 0.0 37.0 55.6#



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: 3.734 ug/l

RT: 15.95 min Scan# 1475

Delta R.T. 0.00 min

Lab File: VD062691.D

Acq: 13 Jun 2019 13:50

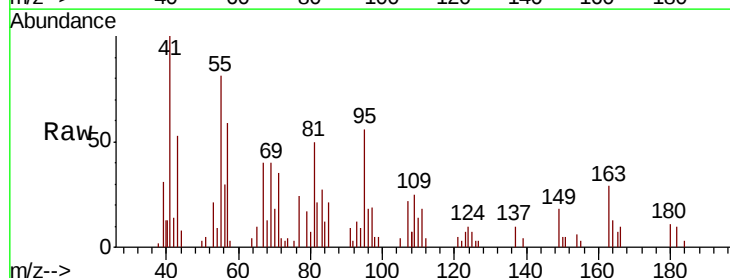
Tgt Ion:180 Resp: 1648

Ion Ratio Lower Upper

180 100

182 89.2 49.4 148.2

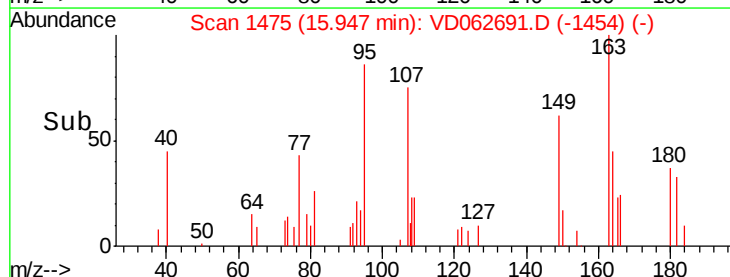
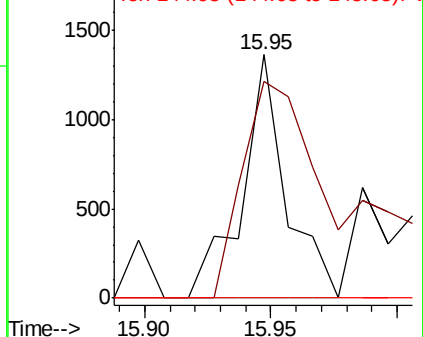
145 0.0 14.5 43.6#

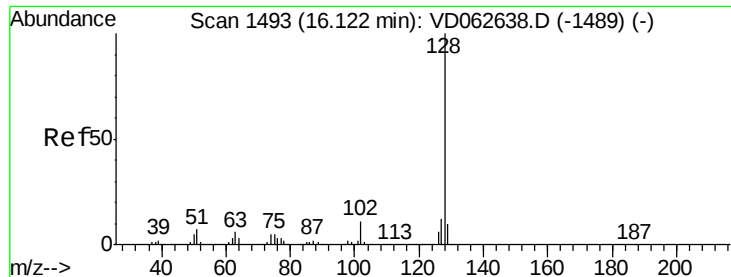


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

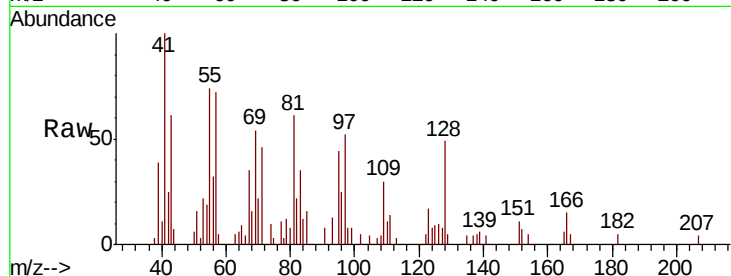




#95
Naphthalene
Concen: 3.969 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VD062691.D
Acq: 13 Jun 2019 13:50

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.6	9.7	14.5
129	9.4	8.1	12.1



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

