

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040919\
 Data File : VD061682.D
 Acq On : 9 Apr 2019 18:39
 Operator : VA/AP
 Sample : K2294-02RE
 Misc : 4.06g/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 10 00:55:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 08 10:04:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.08	168	447484	50.00	ug/l	0.05
34) 1,4-Difluorobenzene	8.26	114	685140	50.00	ug/l	0.05
63) Chlorobenzene-d5	12.39	117	435174	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	14.54	152	126980	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.49	65	187104	55.16	ug/l	0.04
Spiked Amount			Recovery	=	110.32%	
35) Dibromofluoromethane	6.97	113	286895	60.44	ug/l	0.05
Spiked Amount			Recovery	=	120.88%	
50) Toluene-d8	10.44	98	601735	50.46	ug/l	0.04
Spiked Amount			Recovery	=	100.92%	
62) 4-Bromofluorobenzene	13.57	95	159777	35.91	ug/l	0.02
Spiked Amount			Recovery	=	71.82%	

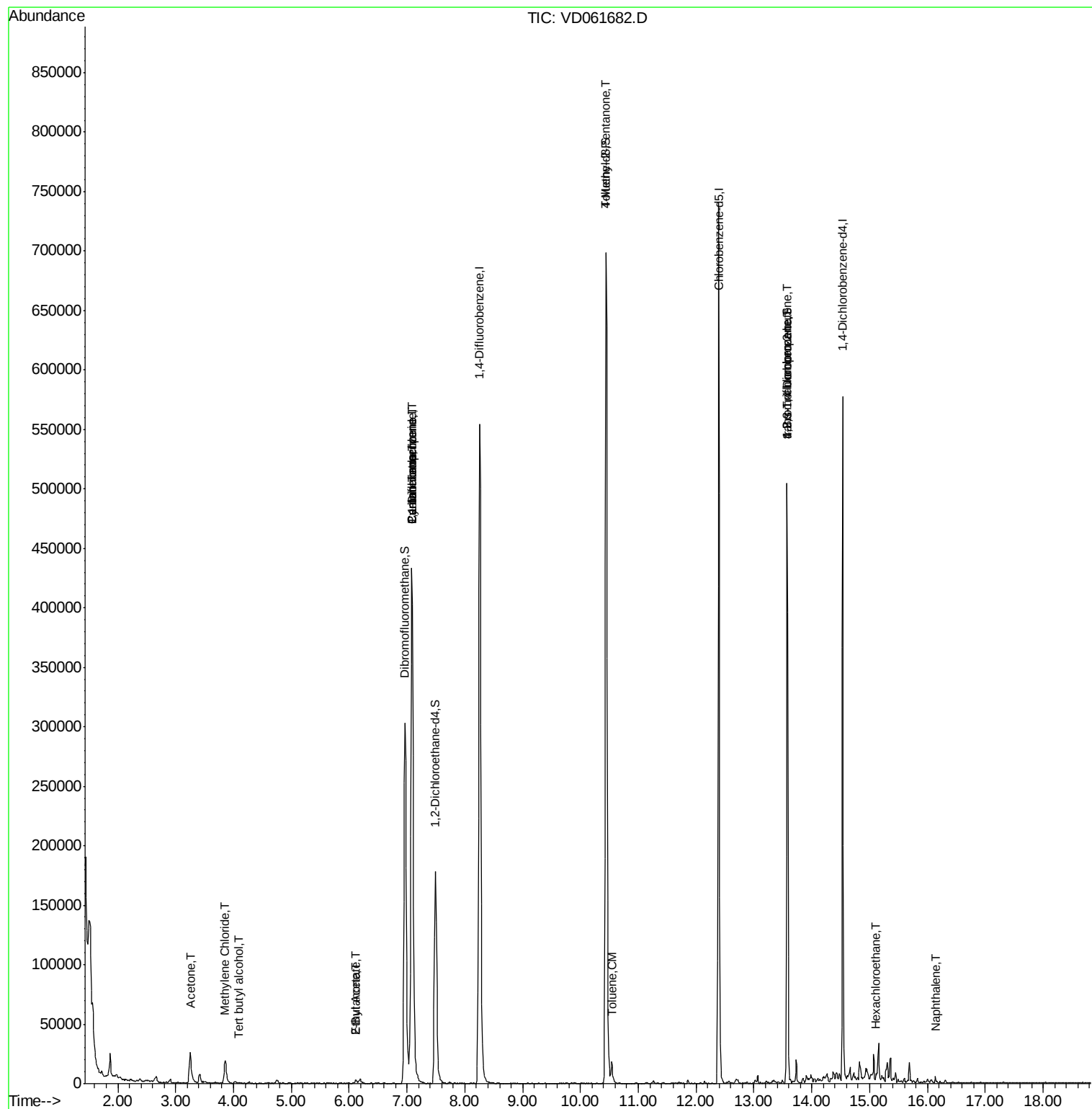
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.09	59	672	2.956	ug/l #	72
16) Acetone	3.25	43	51715	51.003	ug/l	100
20) Methylene Chloride	3.86	84	14050	2.442	ug/l #	90
25) 2-Butanone	6.12	43	6526	5.583	ug/l	91
31) Cyclohexane	7.08	56	7078	1.108	ug/l #	1
36) 1,1-Dichloropropene	7.08	75	31530	5.258	ug/l #	45
37) Ethyl Acetate	6.12	43	6526	2.672	ug/l #	68
38) Carbon Tetrachloride	7.08	117	42511	6.049	ug/l #	15
51) 4-Methyl-2-Pentanone	10.44	43	2337	1.115	ug/l #	1
52) Toluene	10.54	92	10048	1.112	ug/l	82
76) 1,2,3-Trichloropropane	13.57	75	60421	34.975	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.57	75	61426	117.172	ug/l #	20
90) Hexachloroethane	15.11	117	2189	1.063	ug/l #	26
95) Naphthalene	16.14	128	4001	1.425	ug/l	97

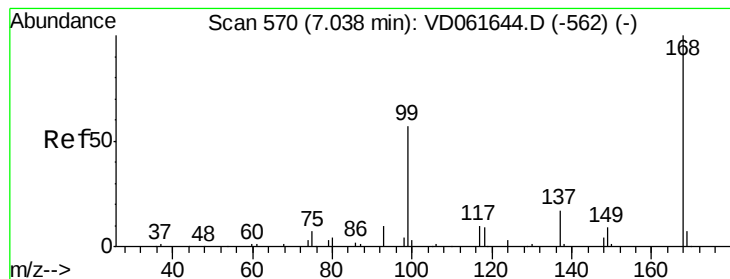
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.08 min Scan# 575

Delta R.T. 0.05 min

Lab File: VD061682.D

Acq: 9 Apr 2019 18:39

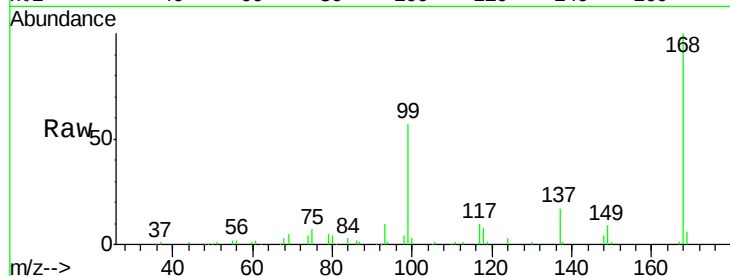
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 447484

Ion Ratio Lower Upper

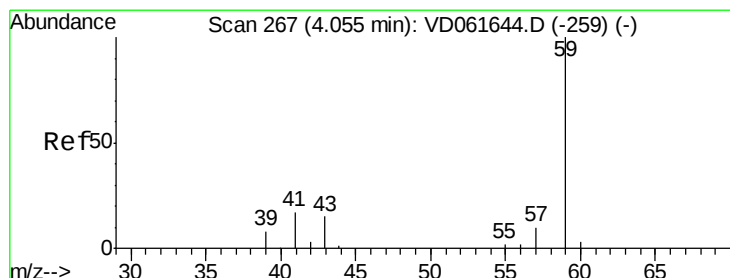
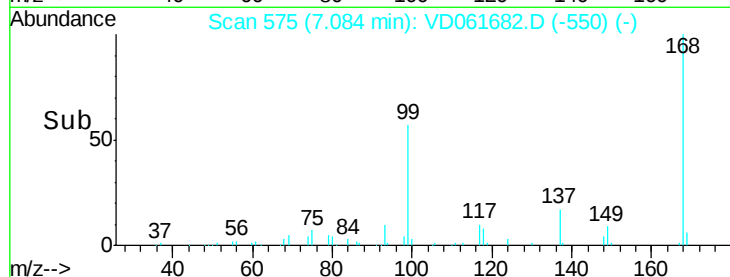
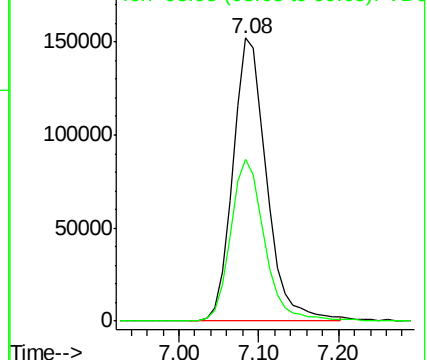
168 100

99 57.2 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 2.956 ug/l

RT: 4.09 min Scan# 271

Delta R.T. 0.04 min

Lab File: VD061682.D

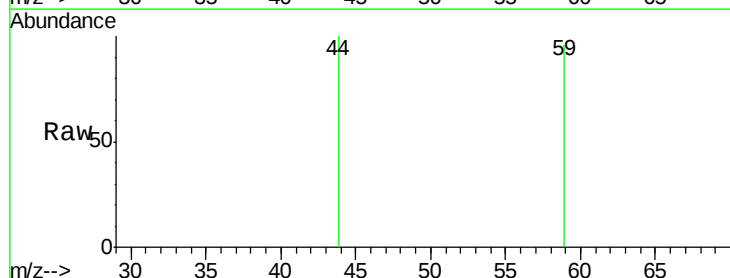
Acq: 9 Apr 2019 18:39

Tgt Ion: 59 Resp: 672

Ion Ratio Lower Upper

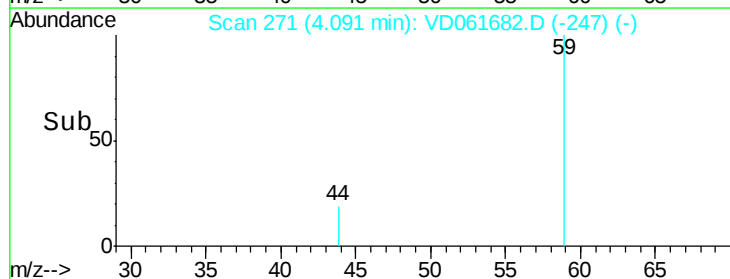
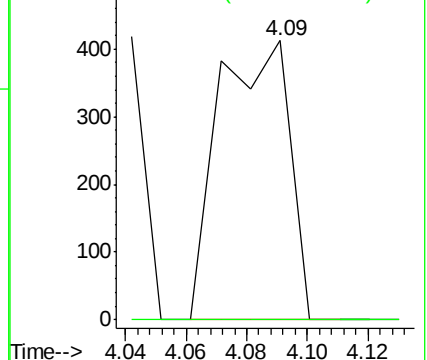
59 100

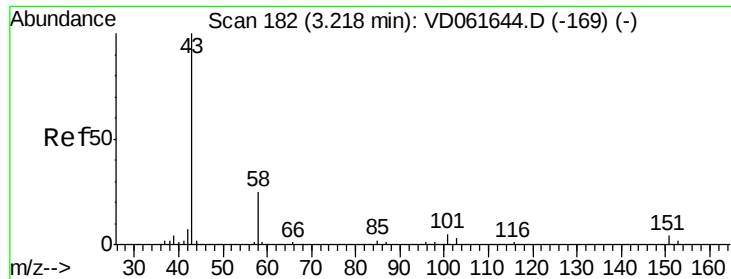
57 0.0 8.4 12.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

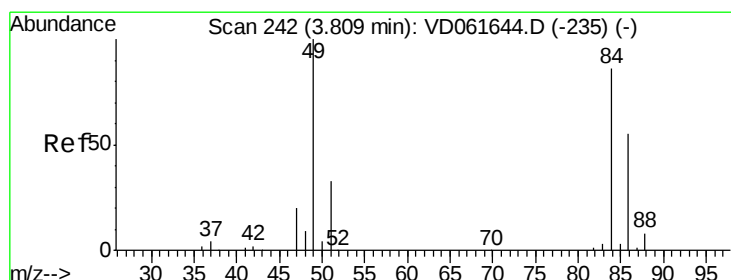
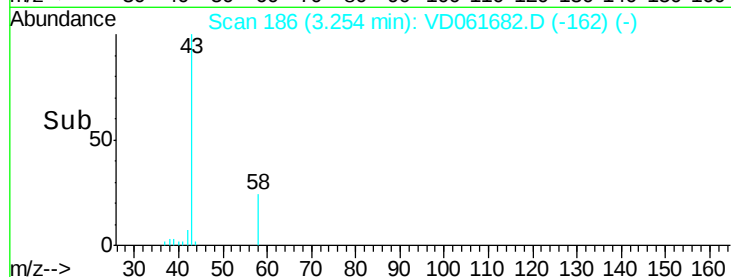
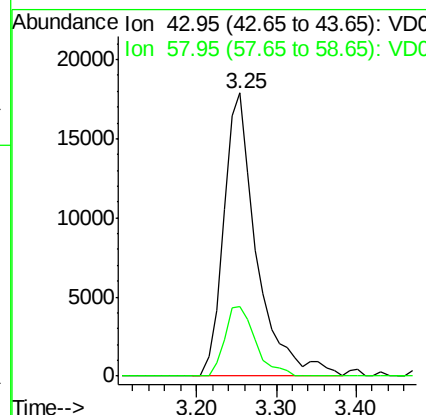
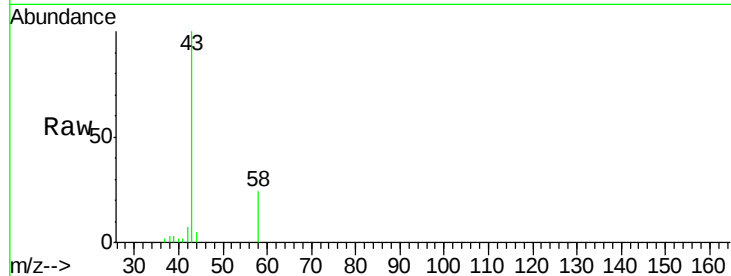




#16
Acetone
Concen: 51.003 ug/l
RT: 3.25 min Scan# 186
Delta R.T. 0.04 min
Lab File: VD061682.D
Acq: 9 Apr 2019 18:39

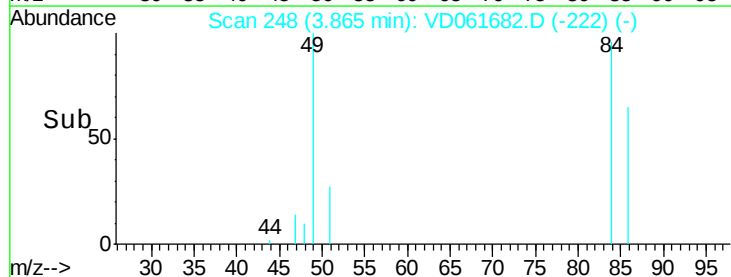
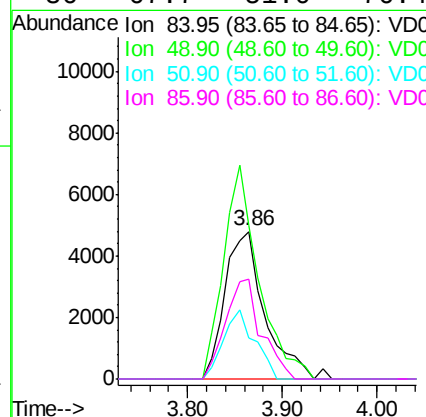
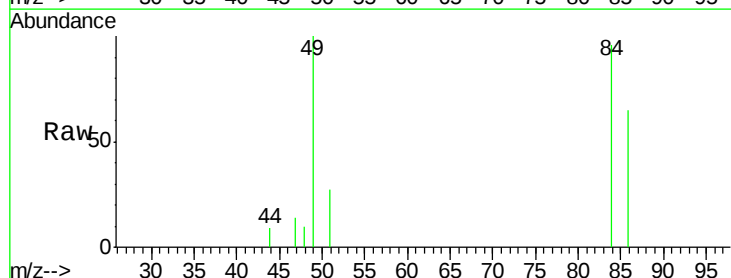
Instrument :
MSVOA_D
ClientSampleId :

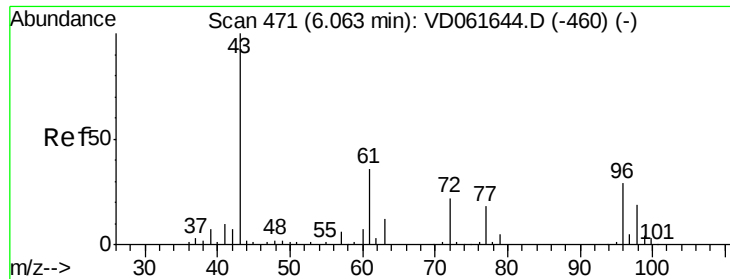
Tot Ion: 43 Resp: 51715
Ion Ratio Lower Upper
43 100
58 24.5 19.7 29.5



#20
Methylene Chloride
Concen: 2.442 ug/l
RT: 3.86 min Scan# 248
Delta R.T. 0.06 min
Lab File: VD061682.D
Acq: 9 Apr 2019 18:39

Tgt Ion: 84 Resp: 14050
Ion Ratio Lower Upper
84 100
49 104.4 93.0 139.4
51 27.8 30.4 45.6#
86 67.7 51.0 76.4





#25

2-Butanone

Concen: 5.583 ug/l

RT: 6.12 min Scan# 477

Delta R.T. 0.06 min

Lab File: VD061682.D

Acq: 9 Apr 2019 18:39

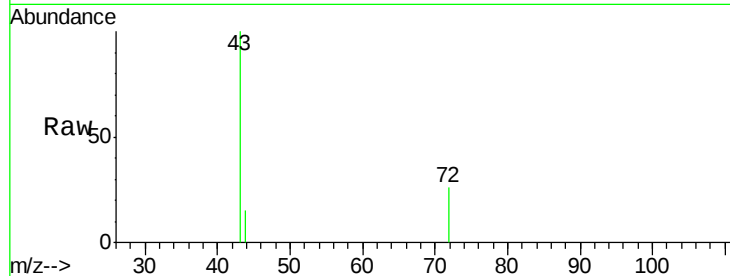
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 6526

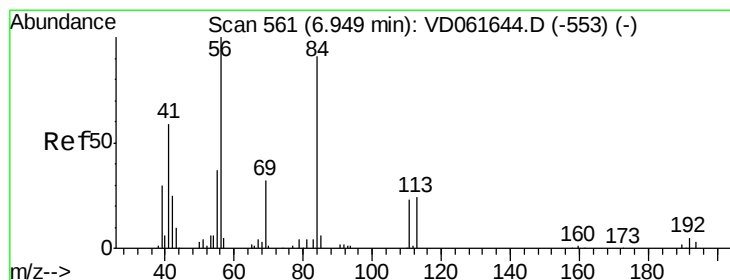
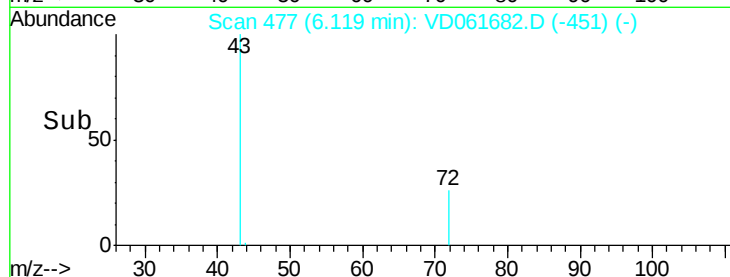
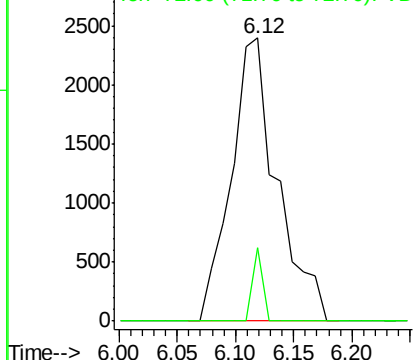
Ion Ratio Lower Upper

43 100

72 26.0 17.4 26.2



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



#31

Cyclohexane

Concen: 1.108 ug/l

RT: 7.08 min Scan# 575

Delta R.T. 0.13 min

Lab File: VD061682.D

Acq: 9 Apr 2019 18:39

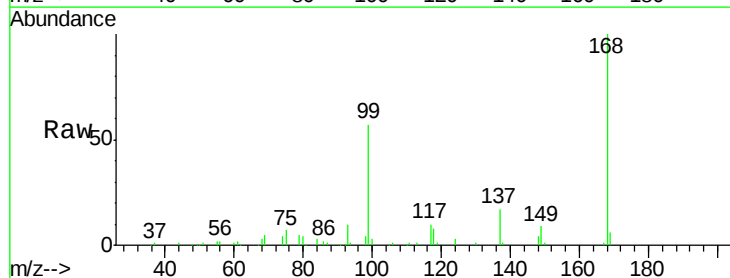
Tgt Ion: 56 Resp: 7078

Ion Ratio Lower Upper

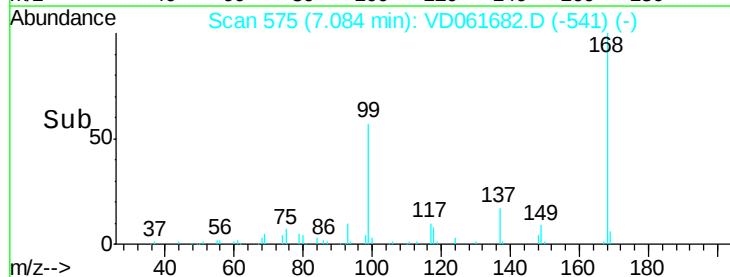
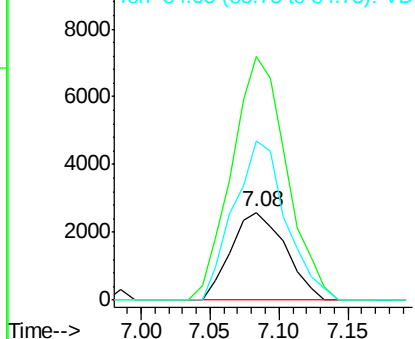
56 100

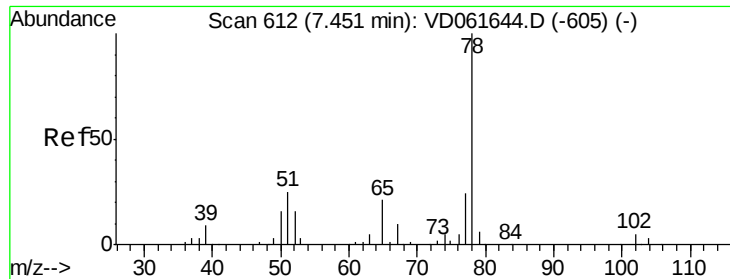
69 277.0 25.8 38.6#

84 180.8 74.2 111.2#



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

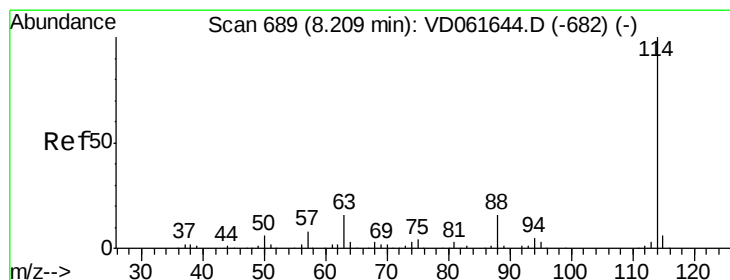
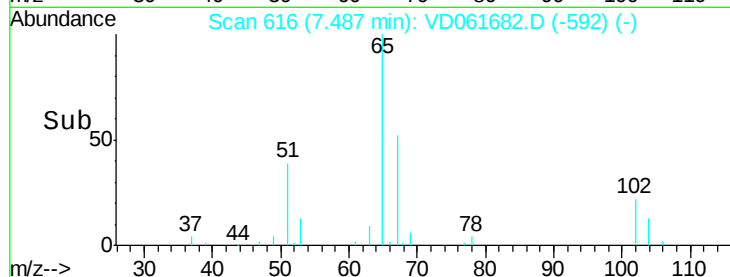
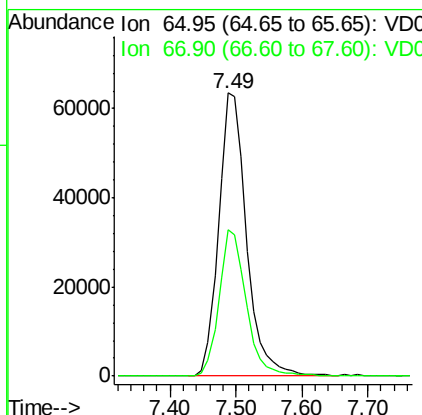
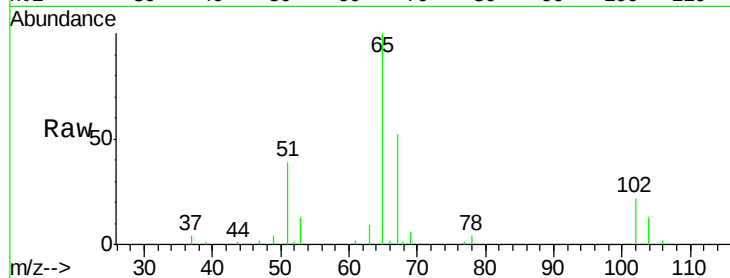




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.49 min Scan# 616
 Delta R.T. 0.04 min
 Lab File: VD061682.D
 Acq: 9 Apr 2019 18:39

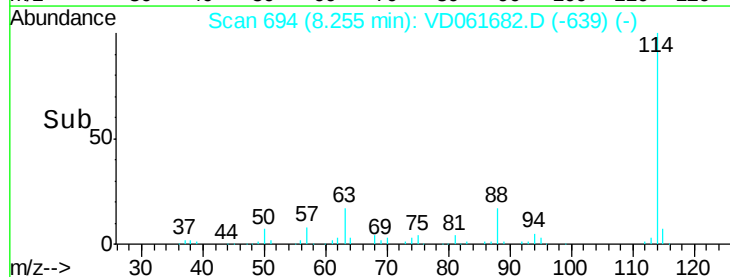
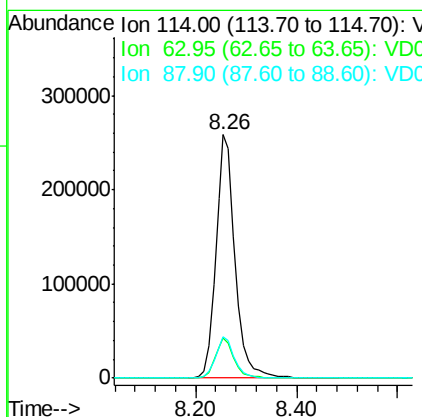
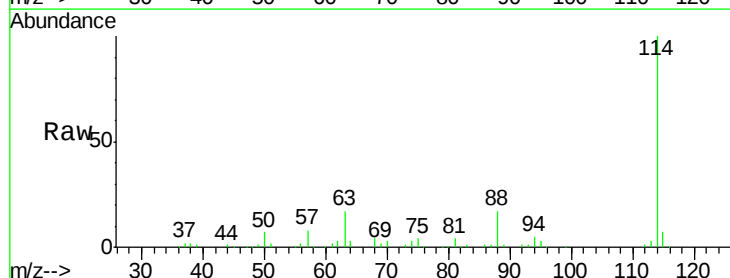
Instrument :
 MSVOA_D
 ClientSampleId :

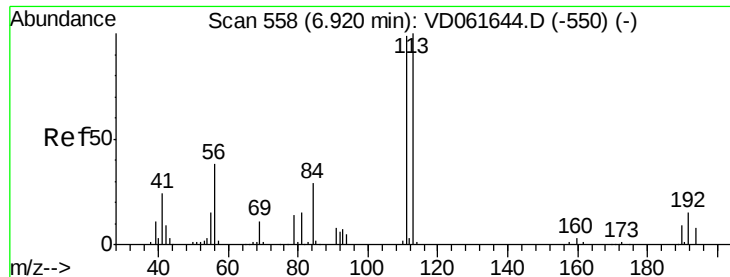
Tot Ion: 65 Resp: 187104
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 99.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.26 min Scan# 694
 Delta R.T. 0.05 min
 Lab File: VD061682.D
 Acq: 9 Apr 2019 18:39

Tgt Ion:114 Resp: 685140
 Ion Ratio Lower Upper
 114 100
 63 16.7 0.0 31.2
 88 17.0 0.0 31.8





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.97 min Scan# 563

Delta R.T. 0.05 min

Lab File: VD061682.D

Acq: 9 Apr 2019 18:39

Instrument :

MSVOA_D

ClientSampleId :

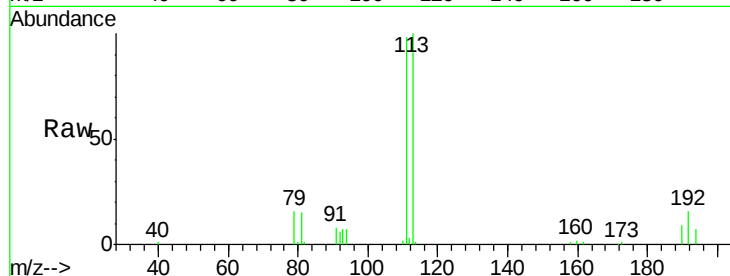
Tot Ion:113 Resp: 286895

Ion Ratio Lower Upper

113 100

111 98.3 79.3 118.9

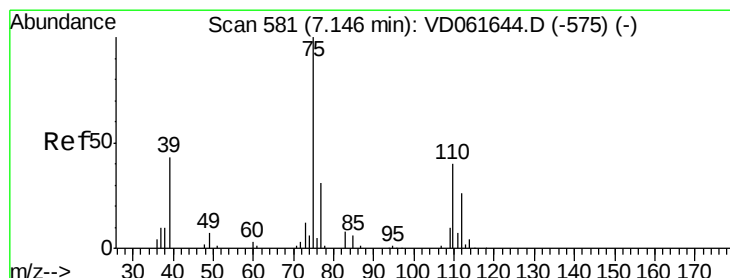
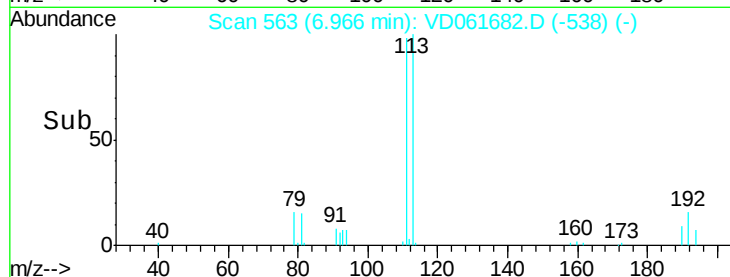
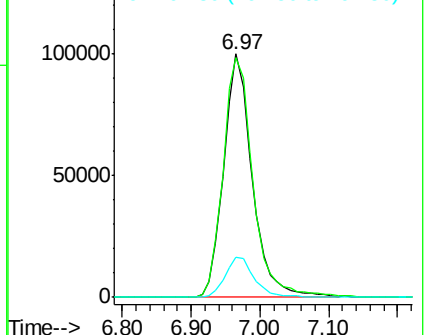
192 16.2 12.3 18.5



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: 5.258 ug/l

RT: 7.08 min Scan# 575

Delta R.T. -0.06 min

Lab File: VD061682.D

Acq: 9 Apr 2019 18:39

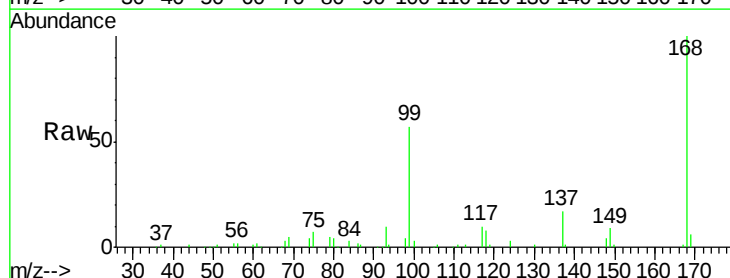
Tgt Ion: 75 Resp: 31530

Ion Ratio Lower Upper

75 100

110 6.7 19.7 59.0#

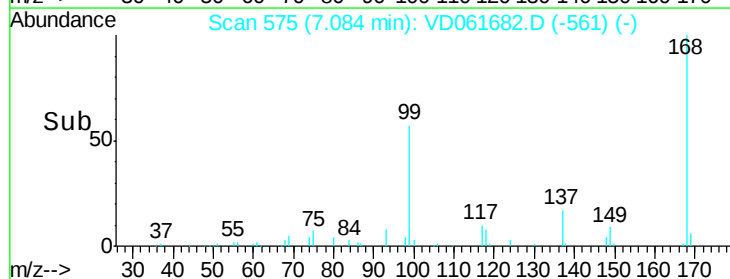
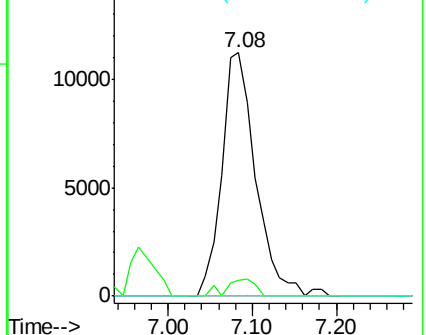
77 0.0 24.8 37.2#

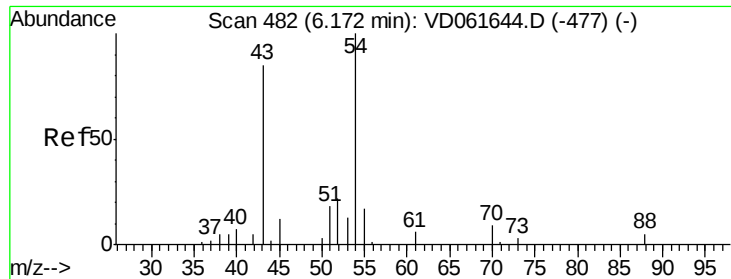


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC

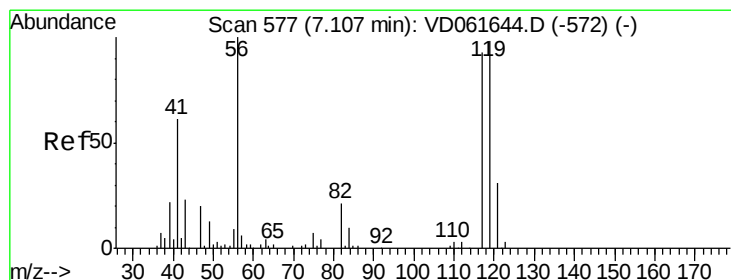
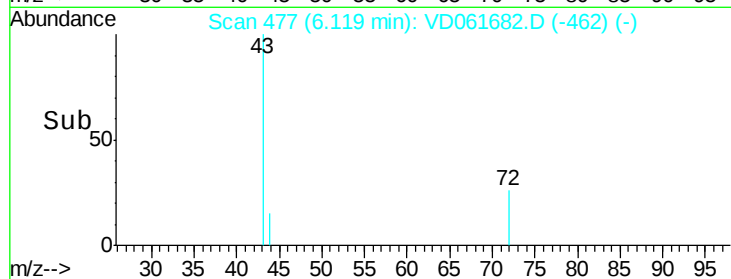
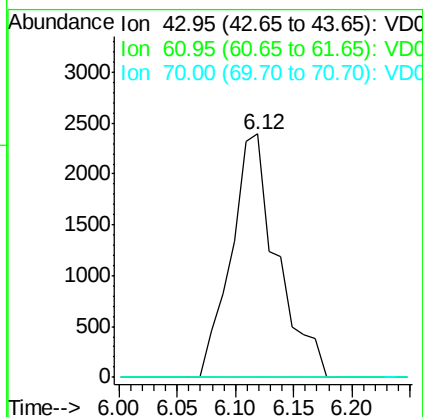
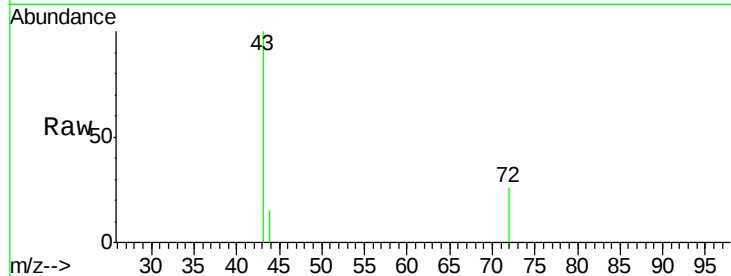




#37
Ethyl Acetate
Concen: 2.672 ug/l
RT: 6.12 min Scan# 477
Delta R.T. -0.05 min
Lab File: VD061682.D
Acq: 9 Apr 2019 18:39

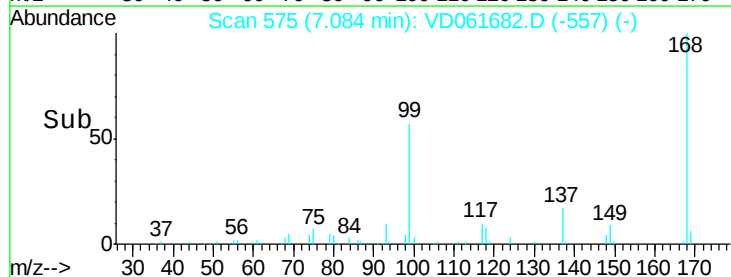
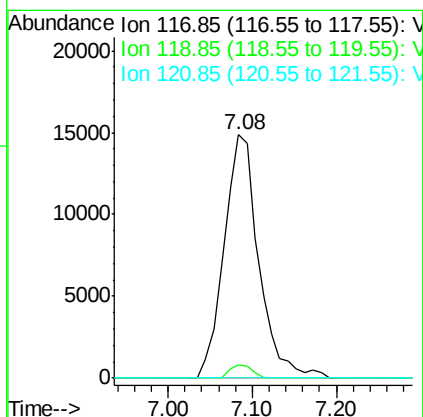
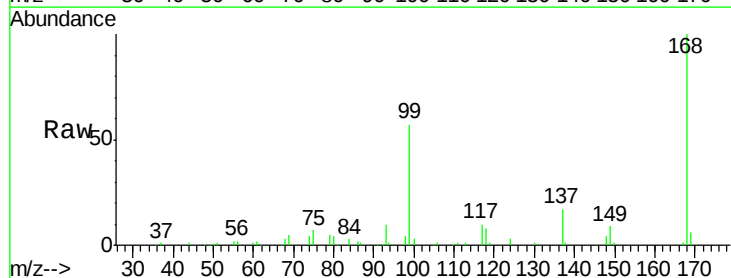
Instrument :
MSVOA_D
ClientSampleId :

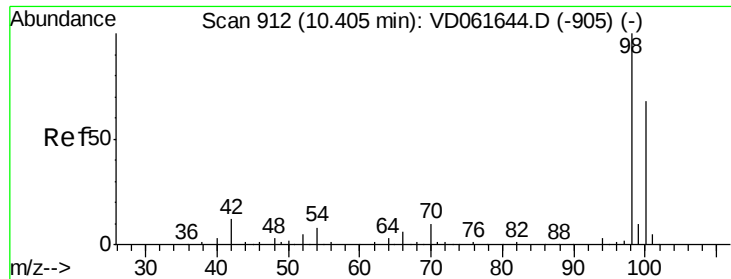
Tot Ion: 43 Resp: 6526
Ion Ratio Lower Upper
43 100
61 0.0 11.9 17.9#
70 0.0 6.9 10.3#



#38
Carbon Tetrachloride
Concen: 6.049 ug/l
RT: 7.08 min Scan# 575
Delta R.T. -0.02 min
Lab File: VD061682.D
Acq: 9 Apr 2019 18:39

Tgt Ion: 117 Resp: 42511
Ion Ratio Lower Upper
117 100
119 5.2 77.9 116.9#
121 0.0 24.7 37.1#

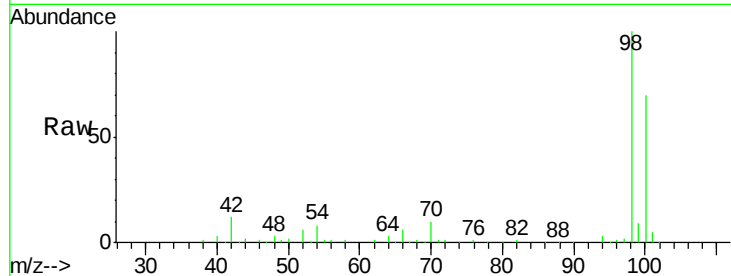




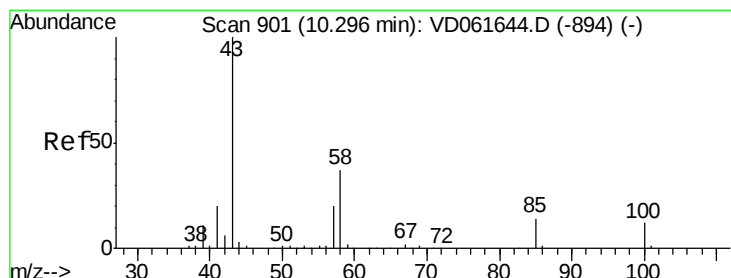
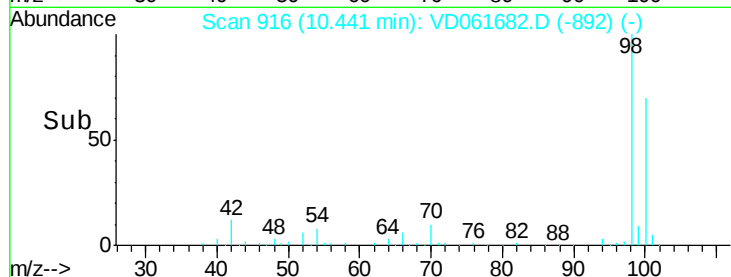
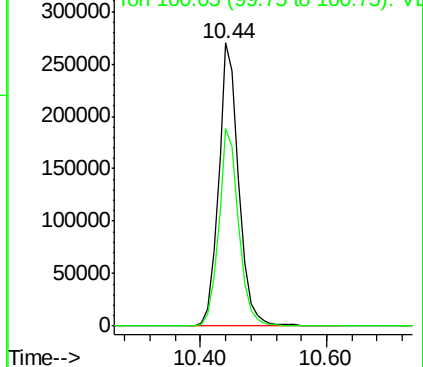
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.44 min Scan# 916
Delta R.T. 0.04 min
Lab File: VD061682.D
Acq: 9 Apr 2019 18:39

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion: 98 Resp: 601735
Ion Ratio Lower Upper
98 100
100 69.6 55.4 83.0

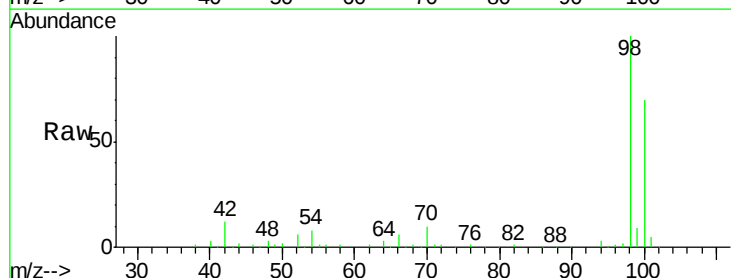


Abundance Ion 98.05 (97.75 to 98.75): VD061644.D (-905) (-)
Ion 100.05 (99.75 to 100.75): VD061644.D (-905) (-)

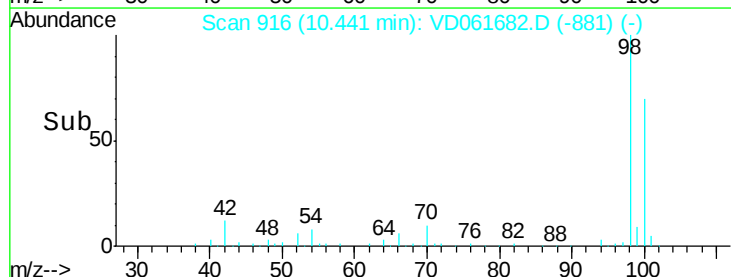
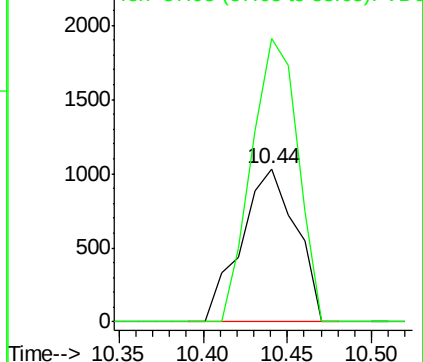


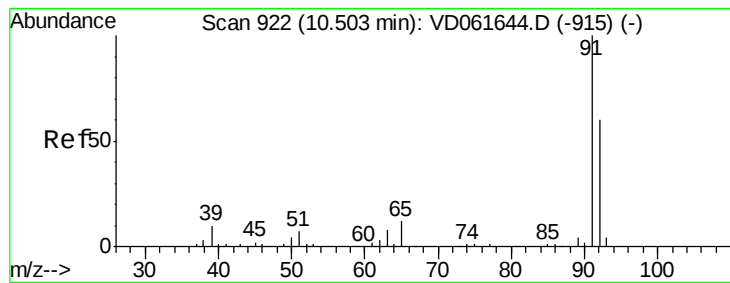
#51
4-Methyl-2-Pentanone
Concen: 1.115 ug/l
RT: 10.44 min Scan# 916
Delta R.T. 0.14 min
Lab File: VD061682.D
Acq: 9 Apr 2019 18:39

Tgt Ion: 43 Resp: 2337
Ion Ratio Lower Upper
43 100
58 184.8 29.8 44.8#



Abundance Ion 42.95 (42.65 to 43.65): VD061644.D (-894) (-)
Ion 57.95 (57.65 to 58.65): VD061644.D (-894) (-)





#52

Toluene

Concen: 1.112 ug/l

RT: 10.54 min Scan# 926

Delta R.T. 0.04 min

Lab File: VD061682.D

Acq: 9 Apr 2019 18:39

Instrument :

MSVOA_D

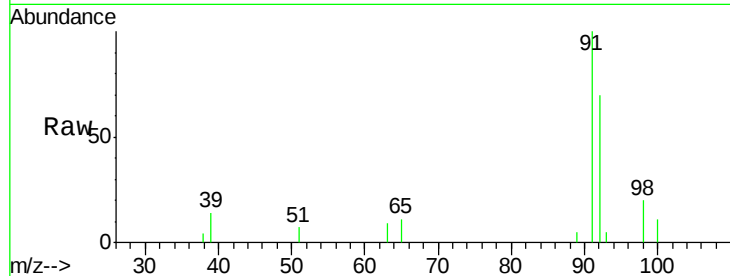
ClientSampleId :

Tot Ion: 92 Resp: 10048

Ion Ratio Lower Upper

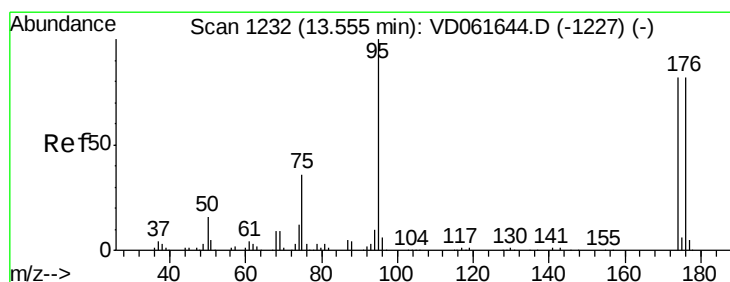
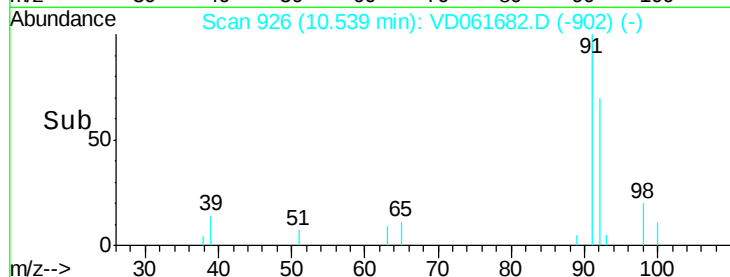
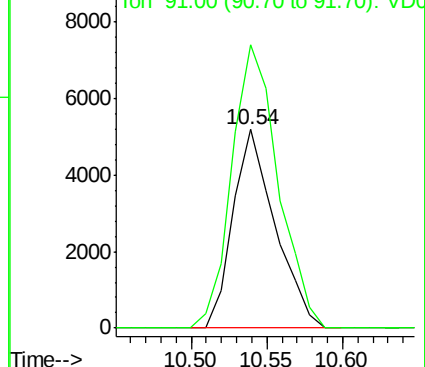
92 100

91 142.4 133.0 199.4



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.02 min

Lab File: VD061682.D

Acq: 9 Apr 2019 18:39

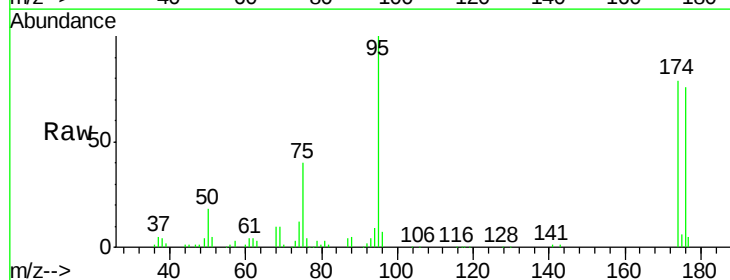
Tgt Ion: 95 Resp: 159777

Ion Ratio Lower Upper

95 100

174 78.9 0.0 164.6

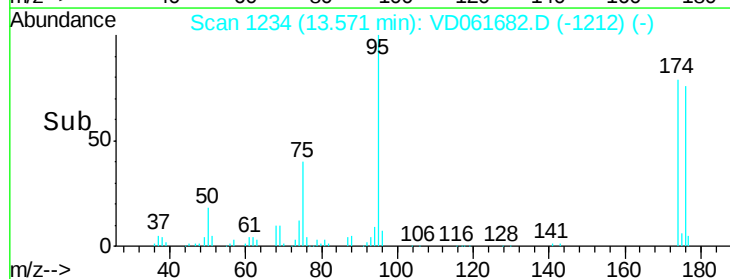
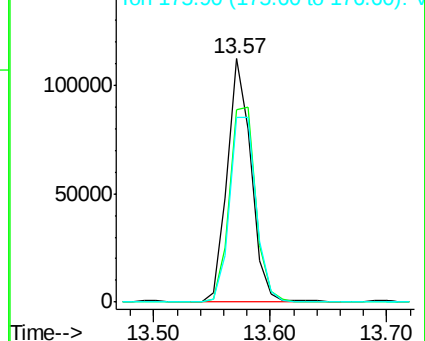
176 75.7 0.0 165.0

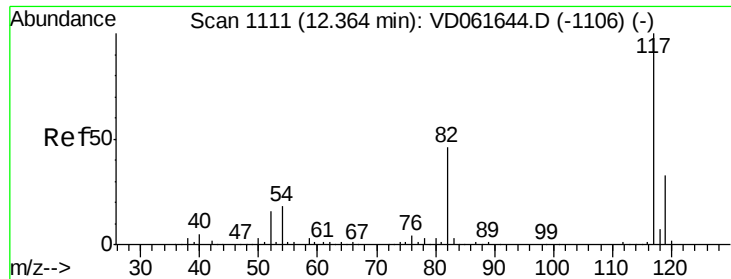


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

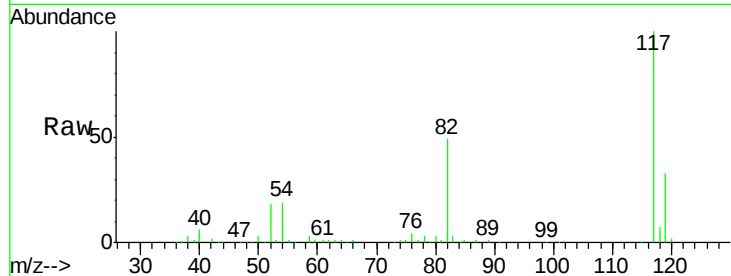




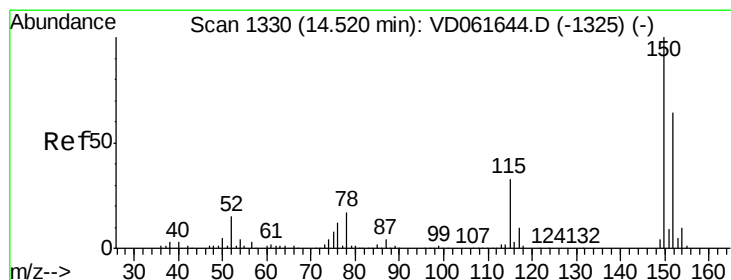
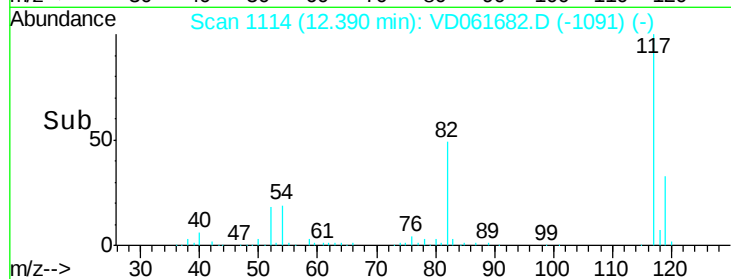
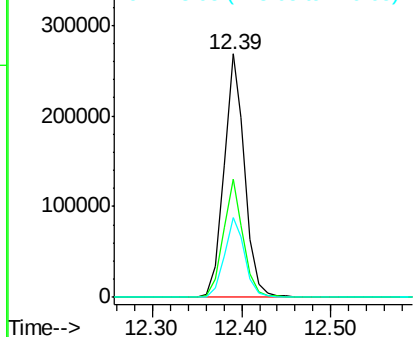
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. 0.03 min
Lab File: VD061682.D
Acq: 9 Apr 2019 18:39

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 435174
Ion Ratio Lower Upper
117 100
82 48.7 36.8 55.2
119 32.5 26.1 39.1

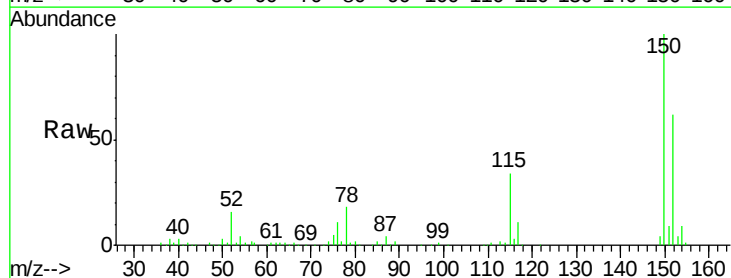


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

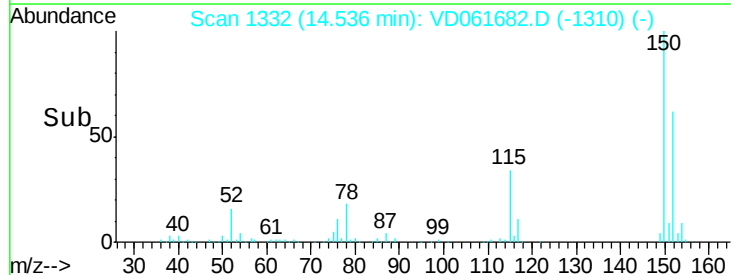
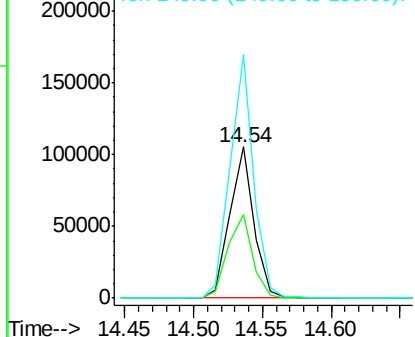


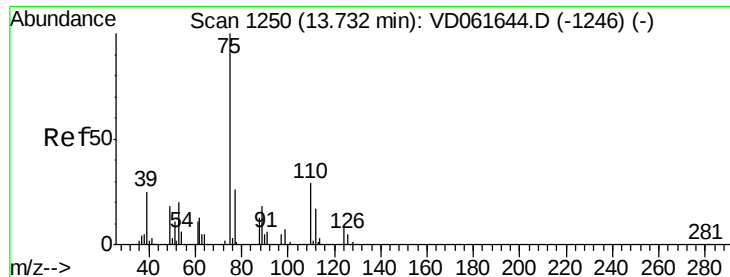
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.54 min Scan# 1332
Delta R.T. 0.02 min
Lab File: VD061682.D
Acq: 9 Apr 2019 18:39

Tgt Ion:152 Resp: 126980
Ion Ratio Lower Upper
152 100
115 55.2 26.4 79.2
150 161.2 0.0 320.6



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: 34.975 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. -0.16 min

Lab File: VD061682.D

Acq: 9 Apr 2019 18:39

Instrument :

MSVOA_D

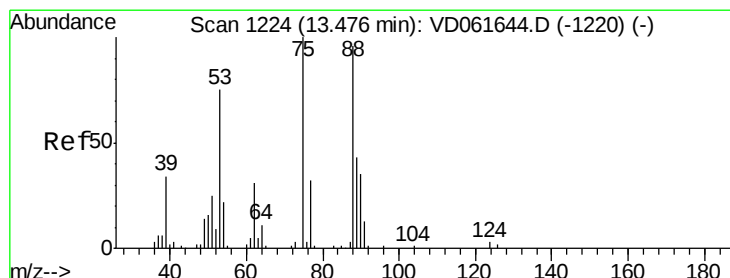
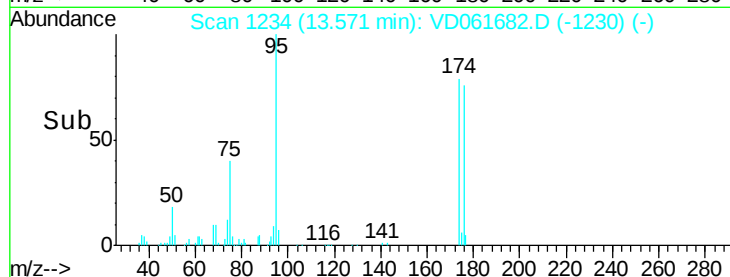
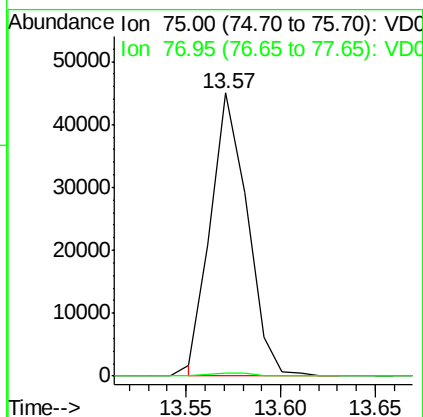
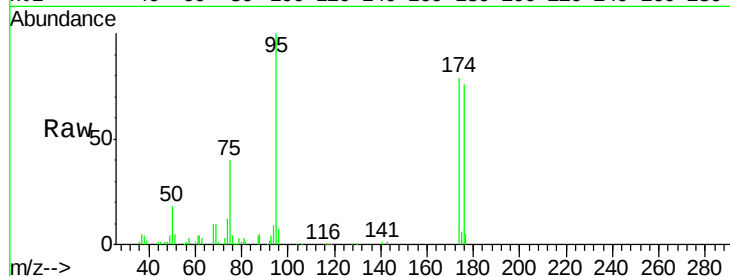
ClientSampled :

Tot Ion: 75 Resp: 60421

Ion Ratio Lower Upper

75 100

77 1.1 15.7 47.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 117.172 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.10 min

Lab File: VD061682.D

Acq: 9 Apr 2019 18:39

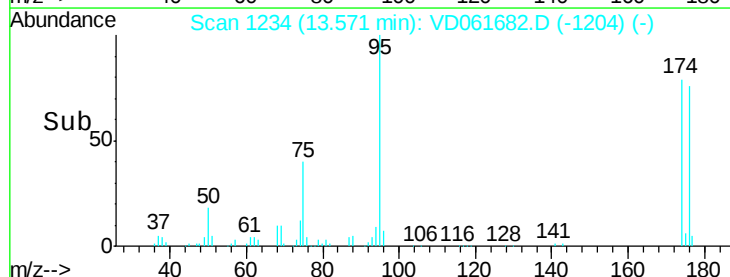
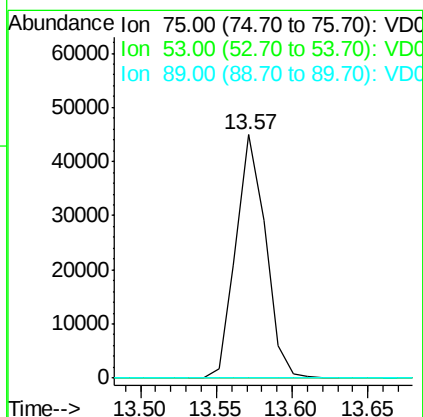
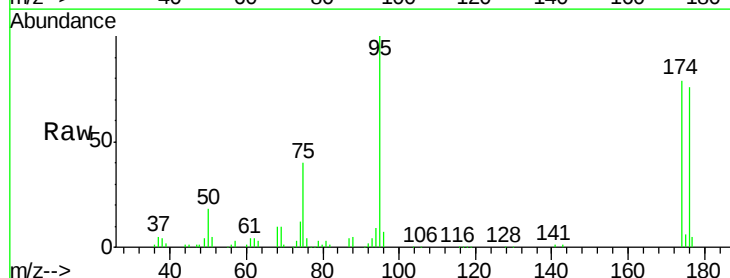
Tgt Ion: 75 Resp: 61426

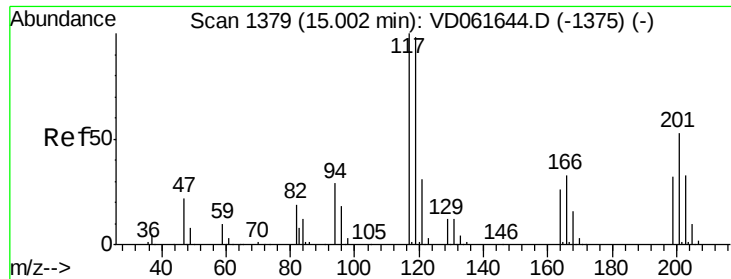
Ion Ratio Lower Upper

75 100

53 0.0 60.2 90.2#

89 0.0 34.2 51.2#

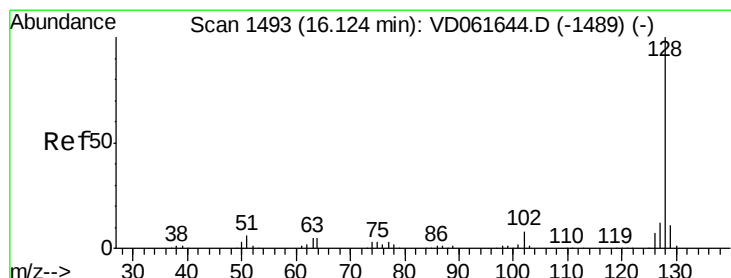
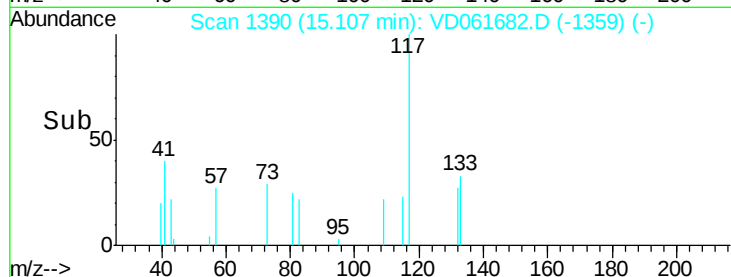
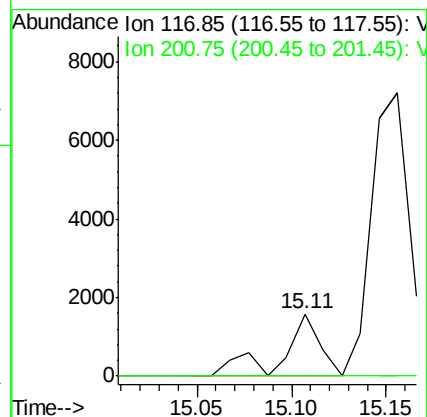
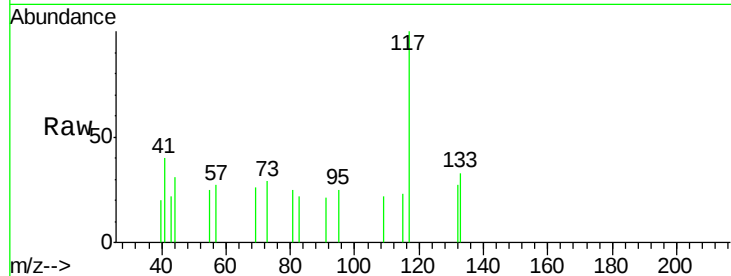




#90
Hexachloroethane
Concen: 1.063 ug/l
RT: 15.11 min Scan# 1390
Delta R.T. 0.10 min
Lab File: VD061682.D
Acq: 9 Apr 2019 18:39

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 2189
Ion Ratio Lower Upper
117 100
201 0.0 26.3 78.8#



#95
Naphthalene
Concen: 1.425 ug/l
RT: 16.14 min Scan# 1495
Delta R.T. 0.02 min
Lab File: VD061682.D
Acq: 9 Apr 2019 18:39

Tgt Ion:128 Resp: 4001
Ion Ratio Lower Upper
128 100
127 10.1 9.4 14.2
129 11.6 8.8 13.2

