

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040319\
 Data File : VD061568.D
 Acq On : 3 Apr 2019 21:07
 Operator : VA/AP
 Sample : K2213-11
 Misc : 5.64g/5ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 04 01:51:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	515248	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.21	114	852603	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.36	117	699625	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	272331	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	243771	55.38	ug/l	0.02
Spiked Amount			Recovery	=	110.76%	
35) Dibromofluoromethane	6.92	113	355363	54.54	ug/l	0.02
Spiked Amount			Recovery	=	109.08%	
50) Toluene-d8	10.41	98	754612	48.29	ug/l	0.02
Spiked Amount			Recovery	=	96.58%	
62) 4-Bromofluorobenzene	13.55	95	289670	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.88	74	3341	1.732	ug/l	94
11) Tert butyl alcohol	3.99	59	2808	10.244	ug/l #	76
16) Acetone	3.22	43	61873	54.684	ug/l	95
20) Methylene Chloride	3.82	84	110499	16.133	ug/l	96
31) Cyclohexane	7.04	56	8973	1.184	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	38995	5.240	ug/l #	45
38) Carbon Tetrachloride	7.04	117	51438	6.016	ug/l #	15
51) 4-Methyl-2-Pentanone	10.41	43	2962	1.051	ug/l #	1
52) Toluene	10.51	92	13221	1.160	ug/l	96
76) 1,2,3-Trichloropropane	13.55	75	80577	20.483	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.55	75	110203	91.878	ug/l #	18

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD061568.D

Acq: 3 Apr 2019 21:07

Instrument :

MSVOA_D

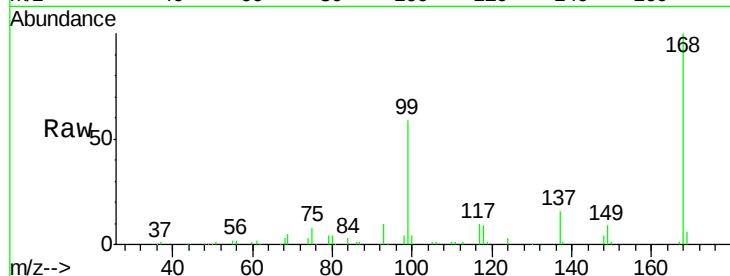
ClientSampled :

Tot Ion:168 Resp: 515248

Ion Ratio Lower Upper

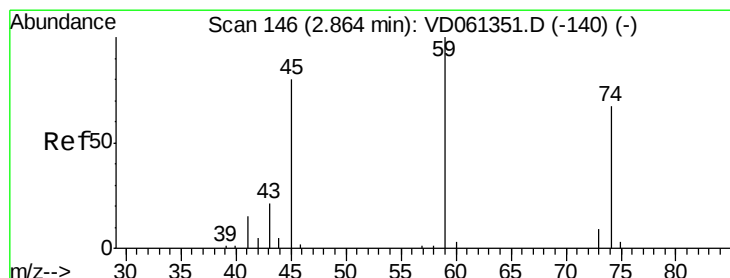
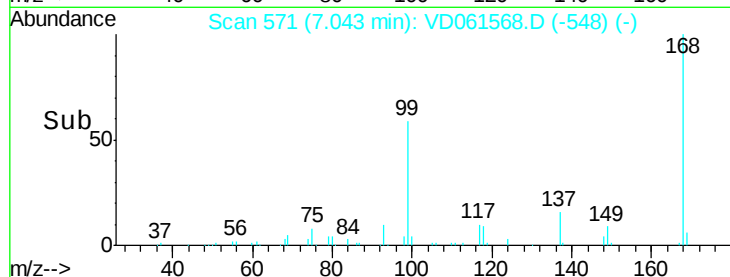
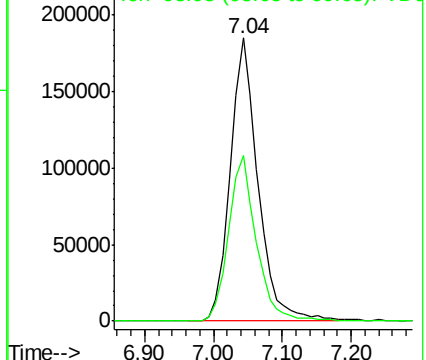
168 100

99 58.5 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 1.732 ug/l

RT: 2.88 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD061568.D

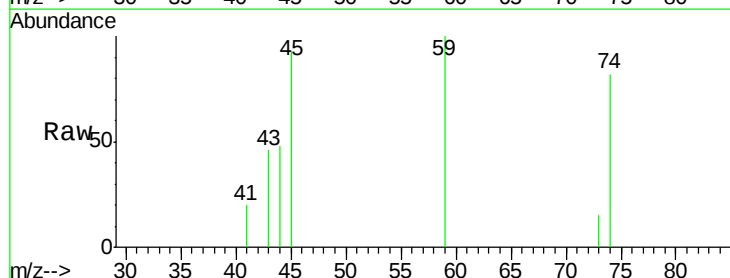
Acq: 3 Apr 2019 21:07

Tgt Ion: 74 Resp: 3341

Ion Ratio Lower Upper

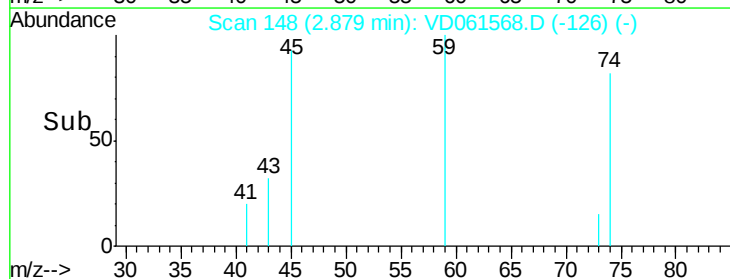
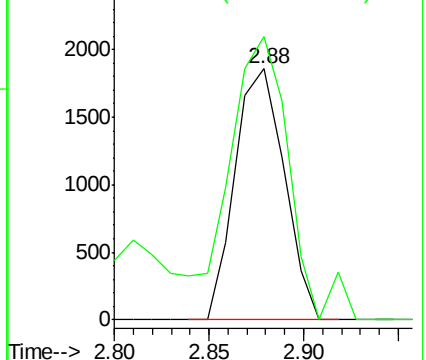
74 100

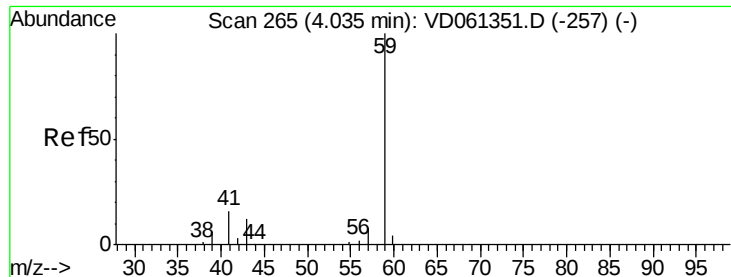
45 112.8 59.7 179.1



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

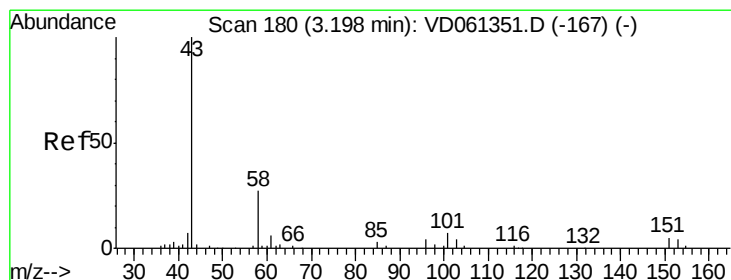
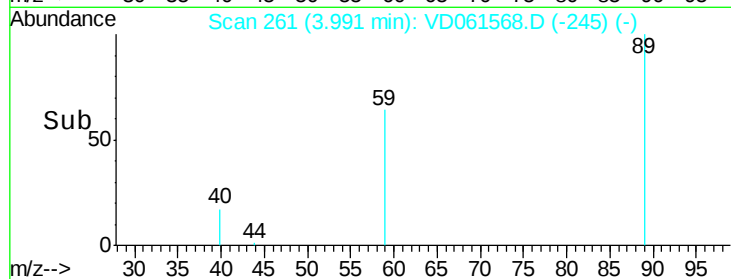
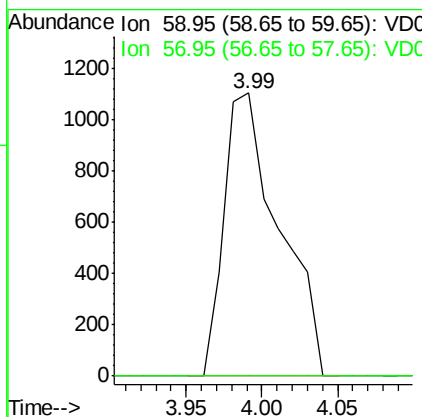
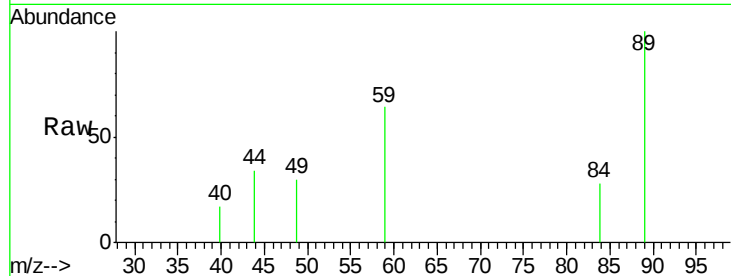




#11
Tert butyl alcohol
Concen: 10.244 ug/l
RT: 3.99 min Scan# 261
Delta R.T. -0.04 min
Lab File: VD061568.D
Acq: 3 Apr 2019 21:07

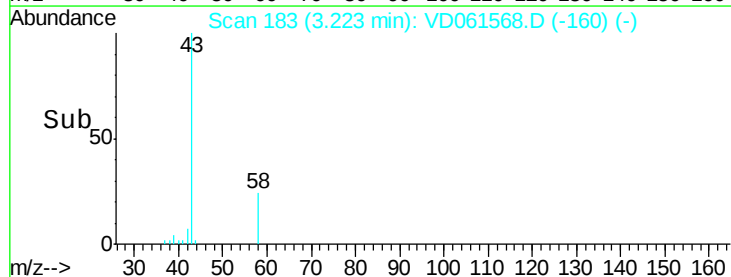
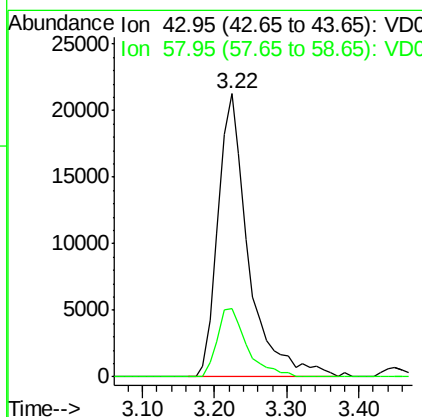
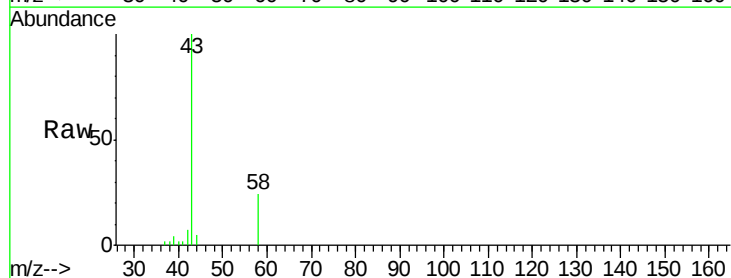
Instrument :
MSVOA_D
ClientSampled :

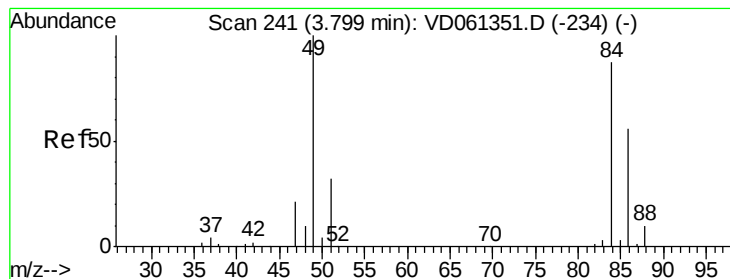
Tot Ion: 59 Resp: 2808
Ion Ratio Lower Upper
59 100
57 0.0 6.7 10.1#



#16
Acetone
Concen: 54.684 ug/l
RT: 3.22 min Scan# 183
Delta R.T. 0.02 min
Lab File: VD061568.D
Acq: 3 Apr 2019 21:07

Tgt Ion: 43 Resp: 61873
Ion Ratio Lower Upper
43 100
58 24.3 21.5 32.3





#20

Methylene Chloride

Concen: 16.133 ug/l

RT: 3.82 min Scan# 244

Delta R.T. 0.02 min

Lab File: VD061568.D

Acq: 3 Apr 2019 21:07

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 84 Resp: 110499

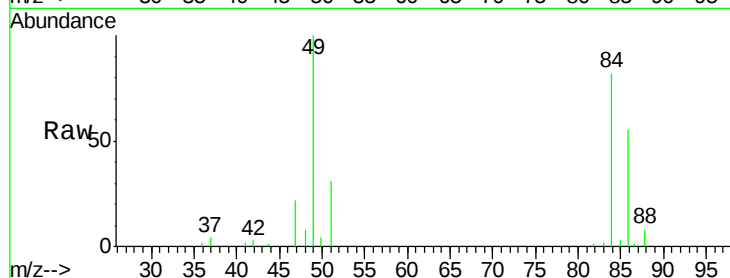
Ion Ratio Lower Upper

84 100

49 121.5 91.8 137.8

51 37.2 29.8 44.8

86 66.3 51.8 77.6

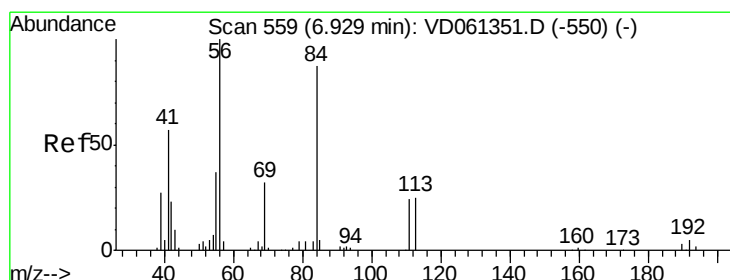
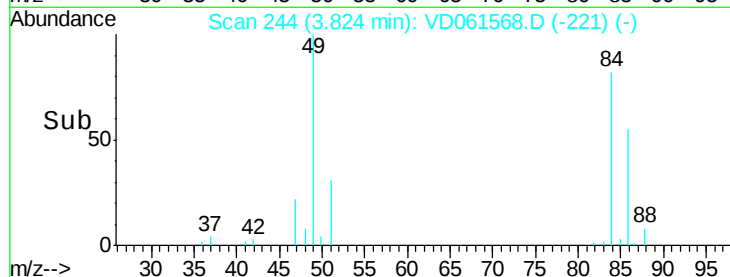
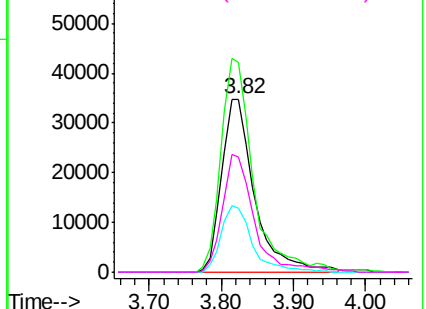


Abundance Ion 83.95 (83.65 to 84.65): VDC

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

Cyclohexane

Concen: 1.184 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.11 min

Lab File: VD061568.D

Acq: 3 Apr 2019 21:07

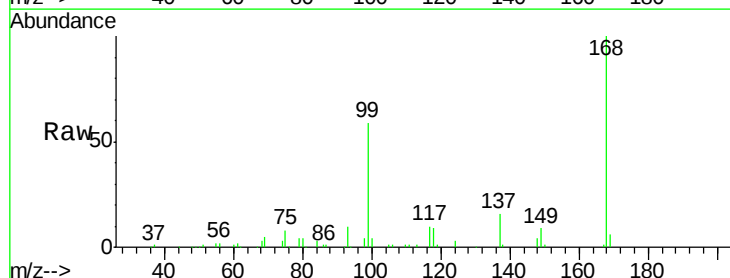
Tgt Ion: 56 Resp: 8973

Ion Ratio Lower Upper

56 100

69 284.8 25.7 38.5#

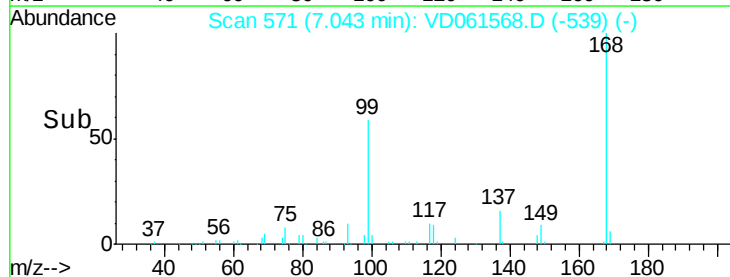
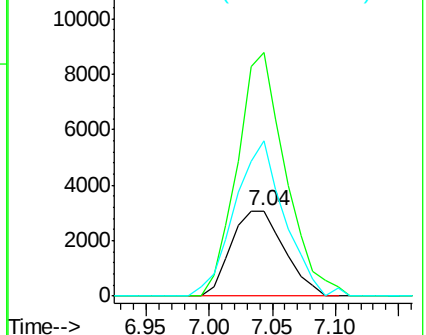
84 182.2 70.6 105.8#

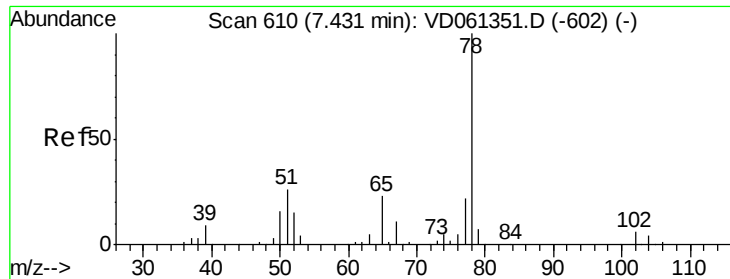


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC

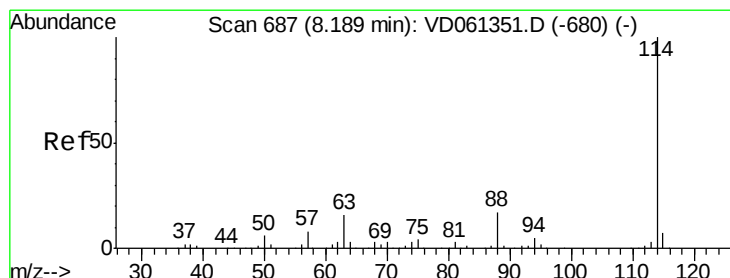
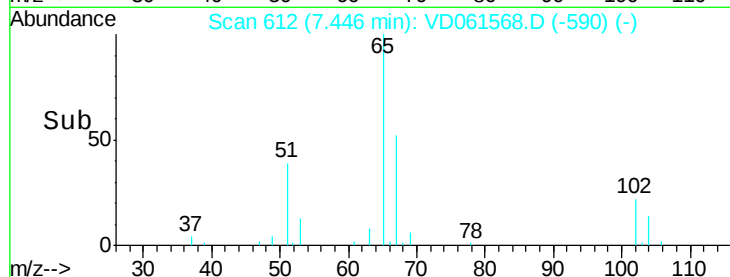
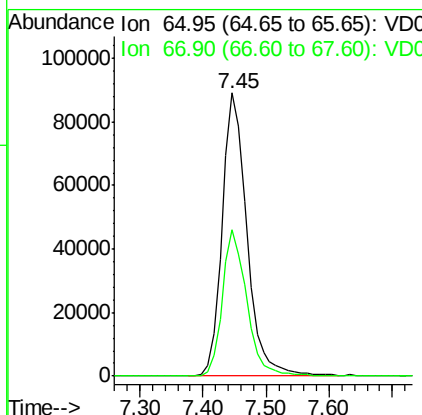
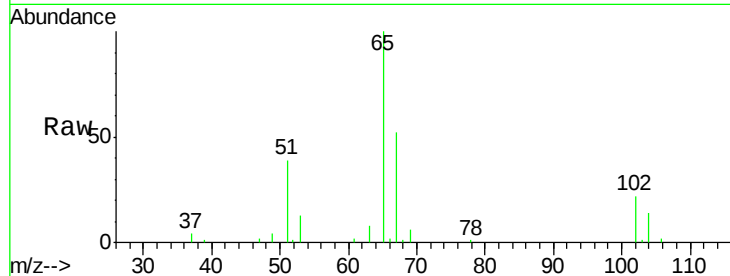




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. 0.02 min
 Lab File: VD061568.D
 Acq: 3 Apr 2019 21:07

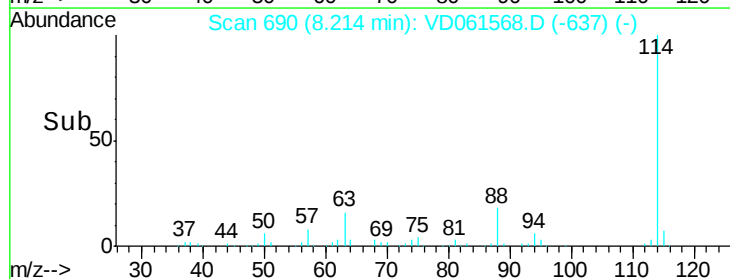
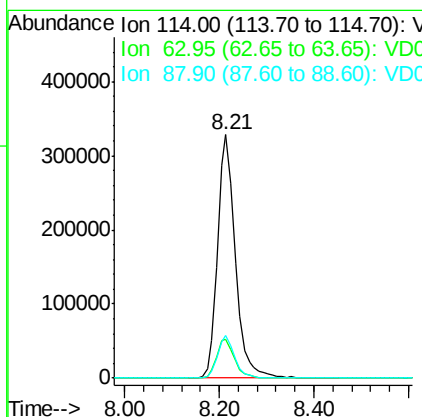
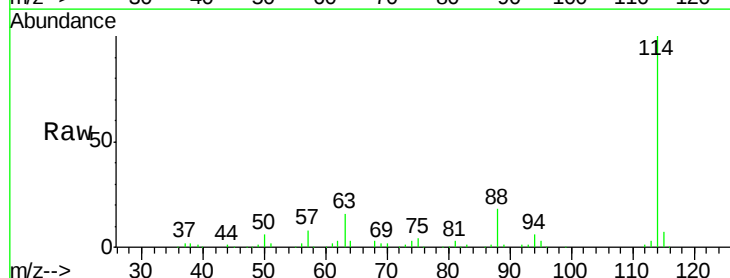
Instrument :
 MSVOA_D
 ClientSampled :

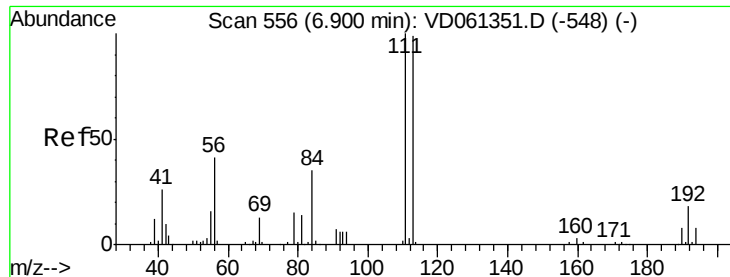
Tot Ion: 65 Resp: 243771
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 99.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 690
 Delta R.T. 0.02 min
 Lab File: VD061568.D
 Acq: 3 Apr 2019 21:07

Tgt Ion: 114 Resp: 852603
 Ion Ratio Lower Upper
 114 100
 63 16.1 0.0 31.6
 88 17.6 0.0 33.4

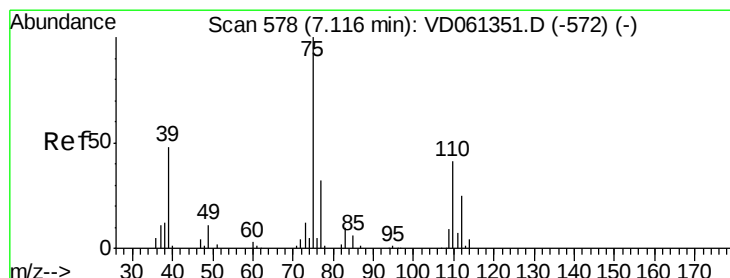
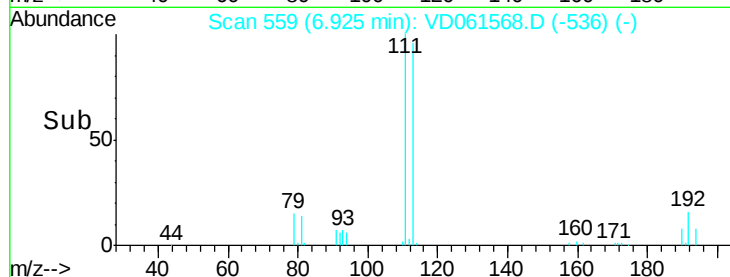
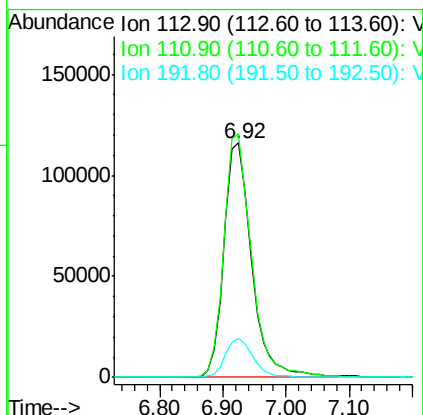
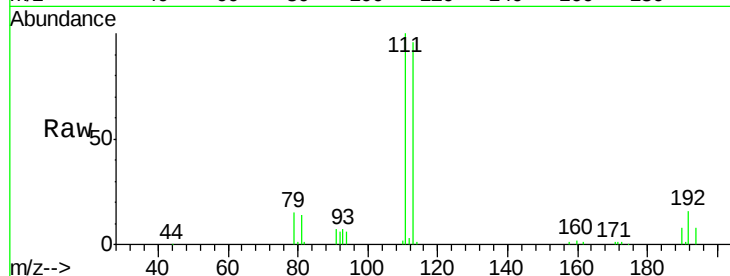




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.92 min Scan# 559
Delta R.T. 0.02 min
Lab File: VD061568.D
Acq: 3 Apr 2019 21:07

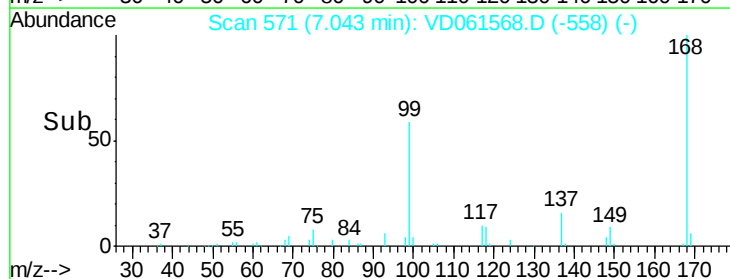
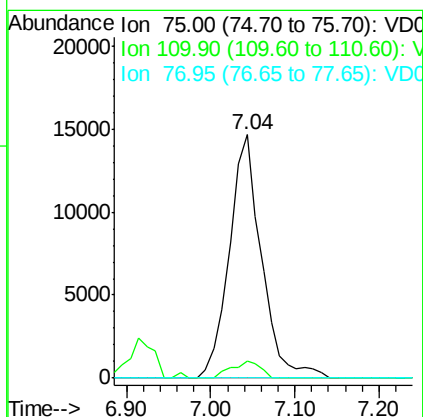
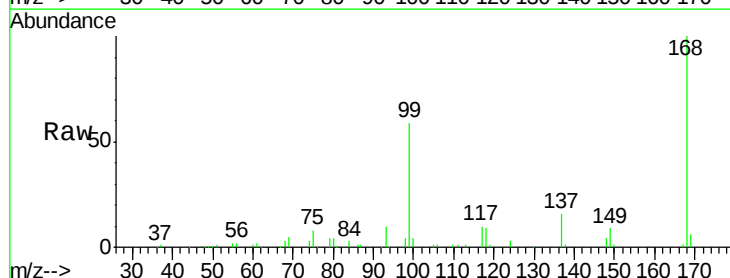
Instrument :
MSVOA_D
ClientSampleId :

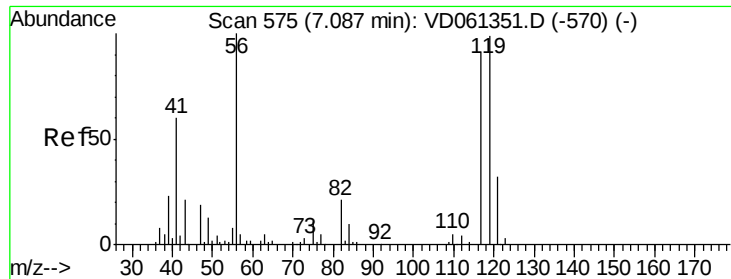
Tot Ion:113 Resp: 355363
Ion Ratio Lower Upper
113 100
111 103.8 81.0 121.6
192 16.7 14.4 21.6



#36
1,1-Dichloropropene
Concen: 5.240 ug/l
RT: 7.04 min Scan# 571
Delta R.T. -0.07 min
Lab File: VD061568.D
Acq: 3 Apr 2019 21:07

Tgt Ion: 75 Resp: 38995
Ion Ratio Lower Upper
75 100
110 7.0 20.4 61.3#
77 0.0 24.9 37.3#

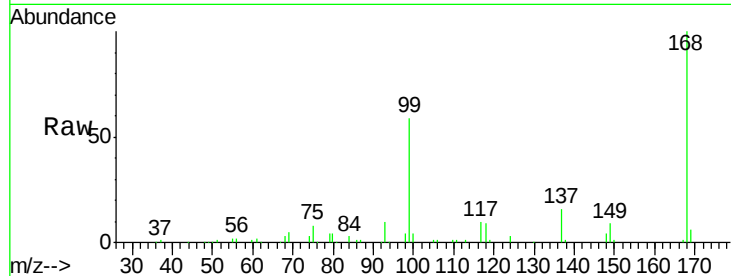




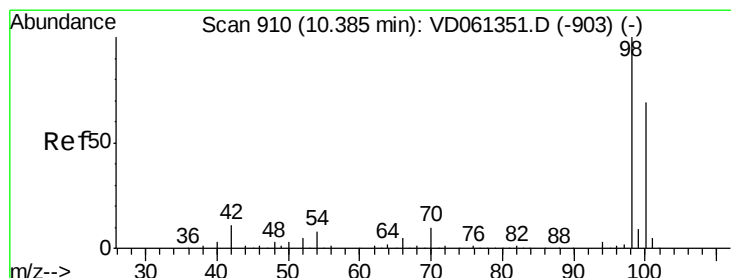
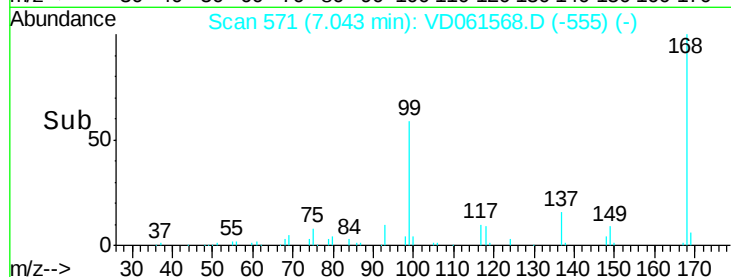
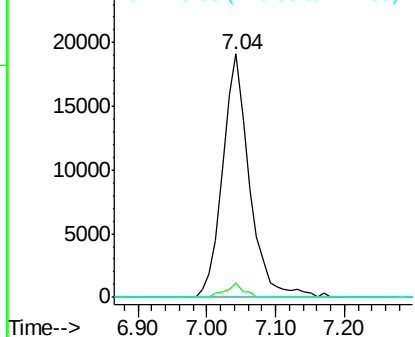
#38
Carbon Tetrachloride
Concen: 6.016 ug/l
RT: 7.04 min Scan# 571
Delta R.T. -0.04 min
Lab File: VD061568.D
Acq: 3 Apr 2019 21:07

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 51438
Ion Ratio Lower Upper
117 100
119 6.1 80.1 120.1#
121 0.0 25.6 38.4#

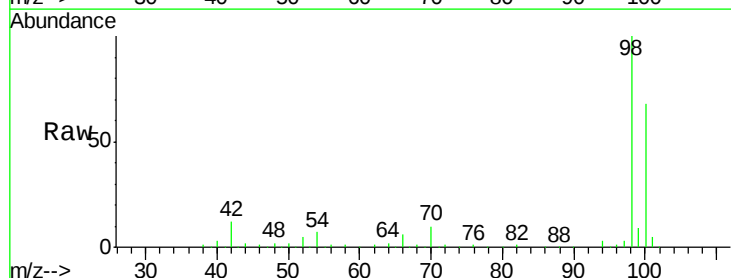


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

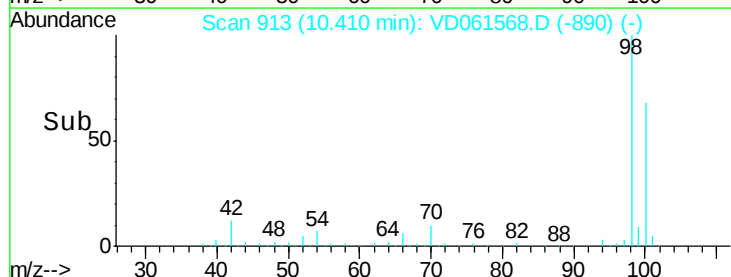
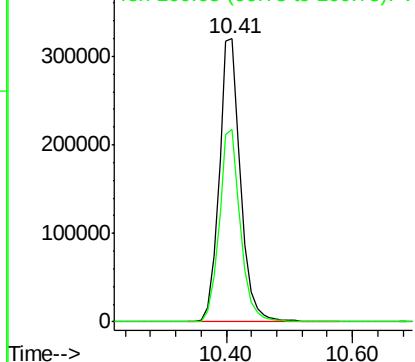


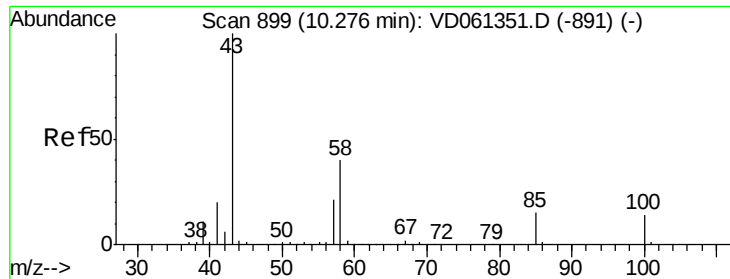
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.02 min
Lab File: VD061568.D
Acq: 3 Apr 2019 21:07

Tgt Ion: 98 Resp: 754612
Ion Ratio Lower Upper
98 100
100 68.1 56.2 84.2



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





#51

4-Methyl-2-Pentanone

Concen: 1.051 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.13 min

Lab File: VD061568.D

Acq: 3 Apr 2019 21:07

Instrument :

MSVOA_D

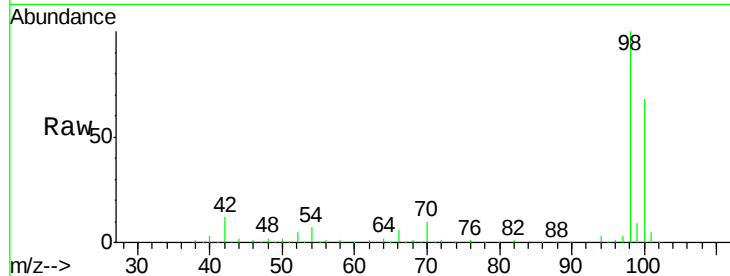
ClientSampleId :

Tot Ion: 43 Resp: 2962

Ion Ratio Lower Upper

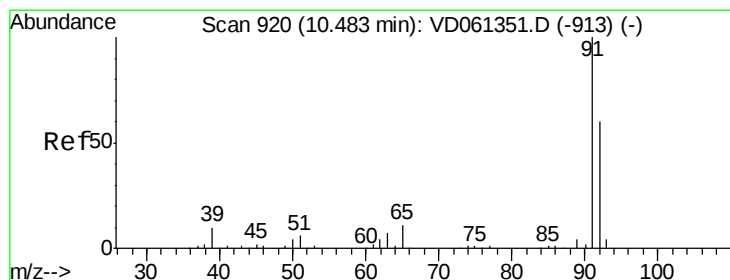
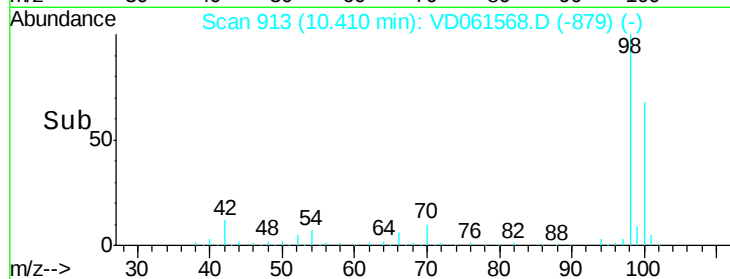
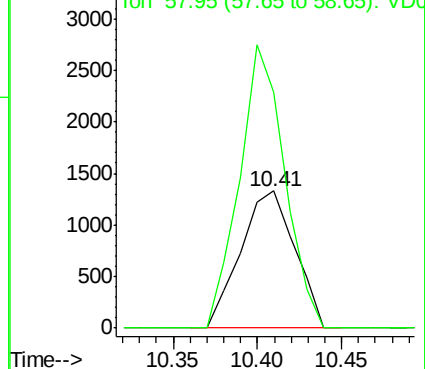
43 100

58 172.7 31.8 47.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 1.160 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.02 min

Lab File: VD061568.D

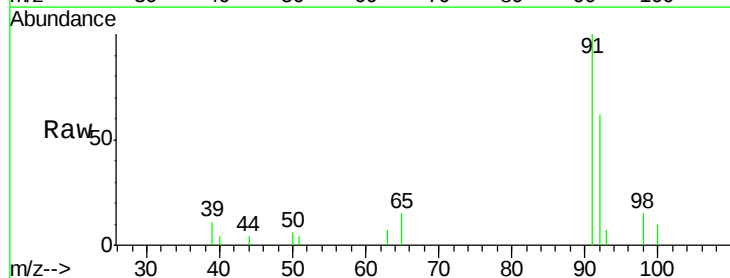
Acq: 3 Apr 2019 21:07

Tgt Ion: 92 Resp: 13221

Ion Ratio Lower Upper

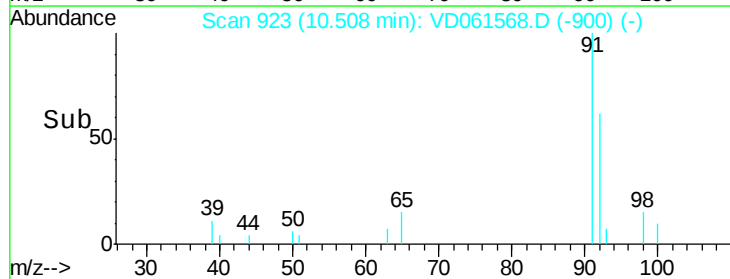
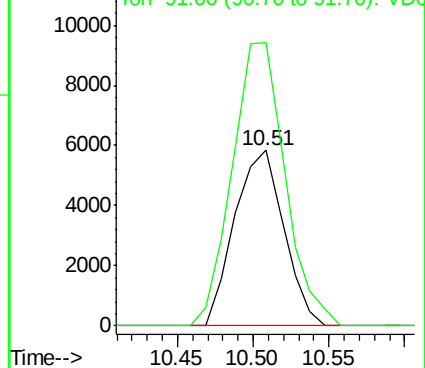
92 100

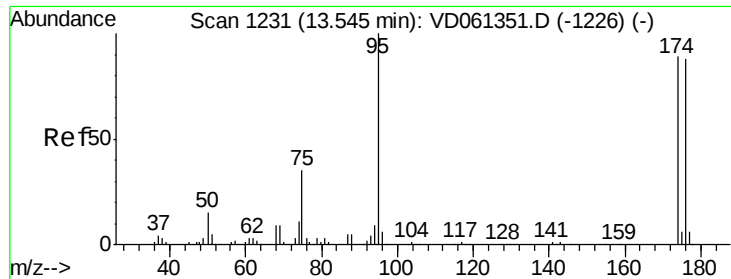
91 161.1 133.3 199.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

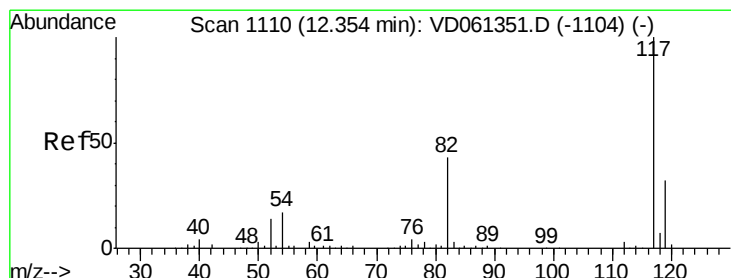
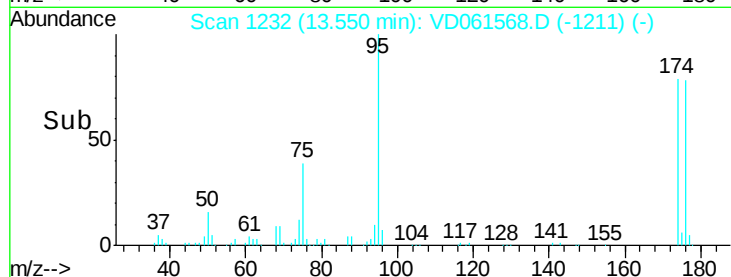
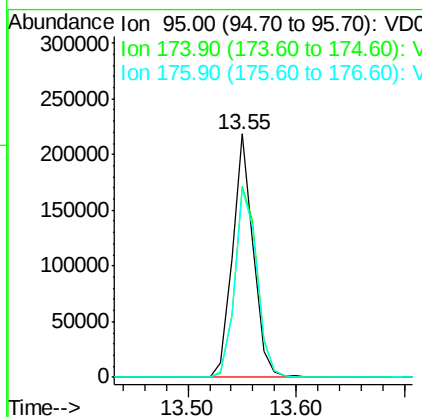
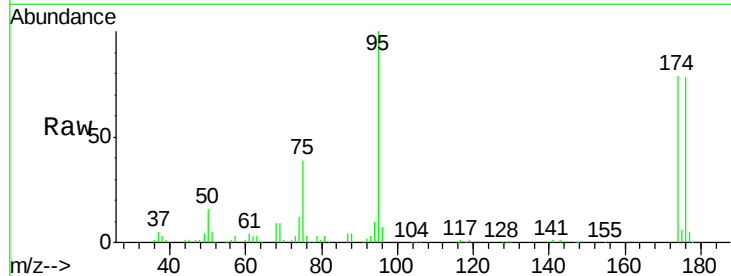




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.01 min
Lab File: VD061568.D
Acq: 3 Apr 2019 21:07

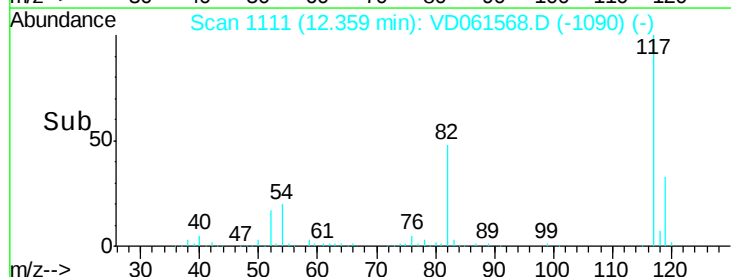
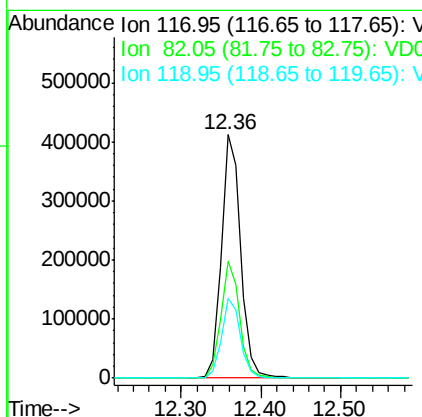
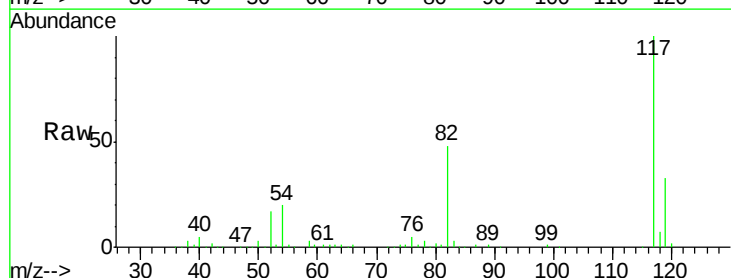
Instrument :
MSVOA_D
ClientSampleId :

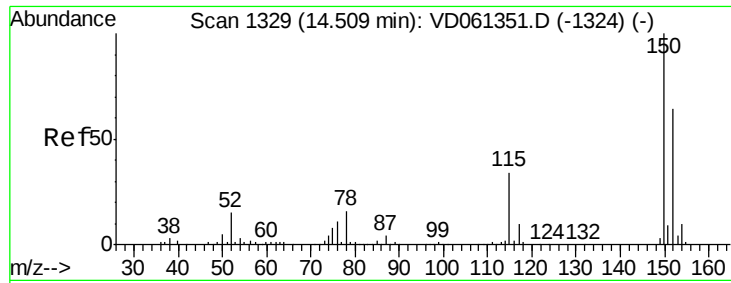
Tot Ion: 95 Resp: 289670
Ion Ratio Lower Upper
95 100
174 78.6 0.0 178.0
176 77.7 0.0 175.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VD061568.D
Acq: 3 Apr 2019 21:07

Tgt Ion: 117 Resp: 699625
Ion Ratio Lower Upper
117 100
82 47.9 34.4 51.6
119 32.8 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1330

Delta R.T. 0.01 min

Lab File: VD061568.D

Acq: 3 Apr 2019 21:07

Instrument :

MSVOA_D

ClientSampleId :

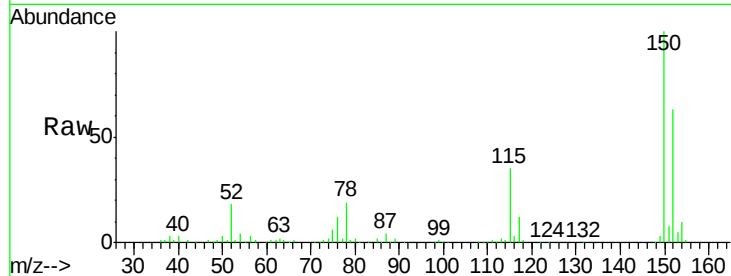
Tot Ion:152 Resp: 272331

Ion Ratio Lower Upper

152 100

115 55.7 26.9 80.6

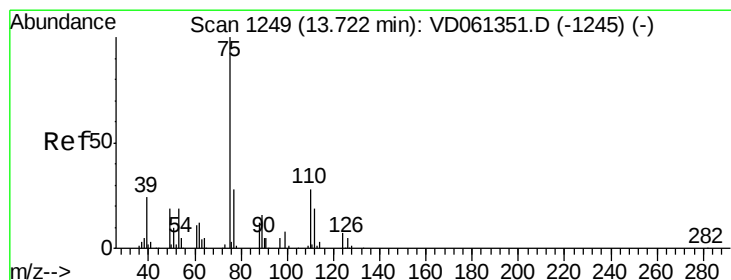
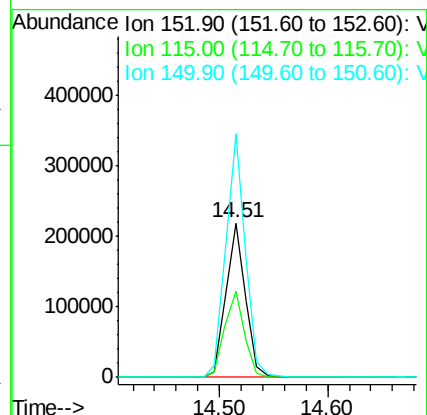
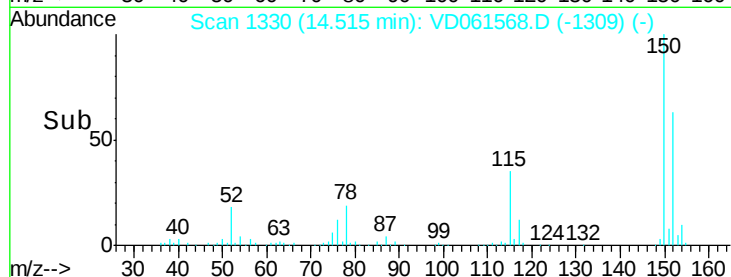
150 157.6 0.0 318.0



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: 20.483 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD061568.D

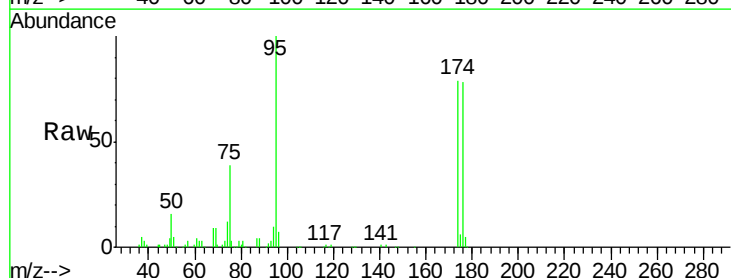
Acq: 3 Apr 2019 21:07

Tgt Ion: 75 Resp: 80577

Ion Ratio Lower Upper

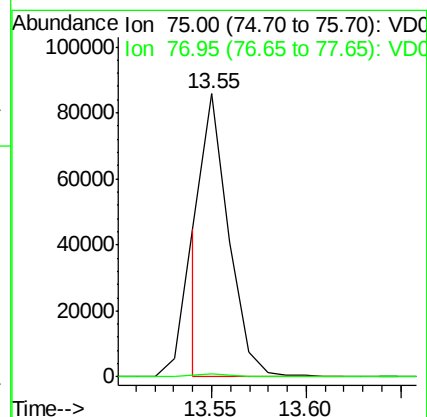
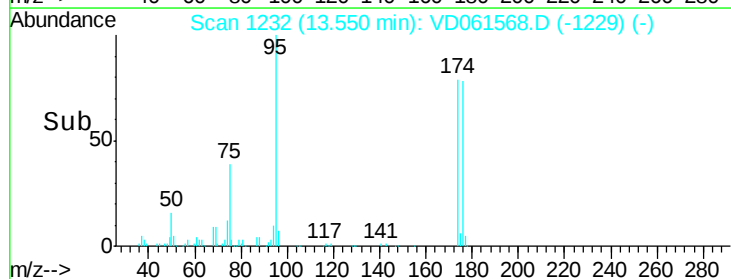
75 100

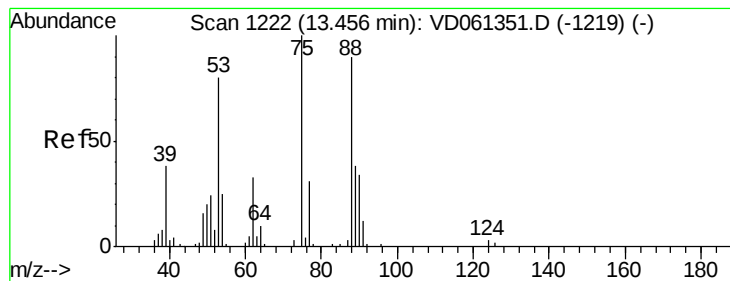
77 1.2 16.2 48.5#



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: 91.878 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD061568.D

Acq: 3 Apr 2019 21:07

Instrument :

MSVOA_D

ClientSampleId :

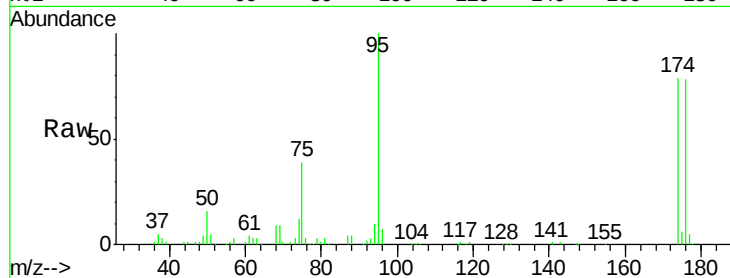
Tot Ion: 75 Resp: 110203

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

89 0.0 30.5 45.7#



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

