

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032019\
 Data File : VD061209.D
 Acq On : 20 Mar 2019 15:45
 Operator : VA/AP
 Sample : K1980-01RE
 Misc : 5.02g/5ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 22 02:00:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	178318	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	316003	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	77506	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	90354	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	123239	83.03	ug/l	0.00
Spiked Amount			Recovery	=	166.06%	
35) Dibromofluoromethane	6.91	113	161472	68.85	ug/l	-0.01
Spiked Amount			Recovery	=	137.70%	
50) Toluene-d8	10.40	98	133799	22.72	ug/l	0.00
Spiked Amount			Recovery	=	45.44%	
62) 4-Bromofluorobenzene	13.55	95	109676	48.00	ug/l	0.00
Spiked Amount			Recovery	=	96.00%	

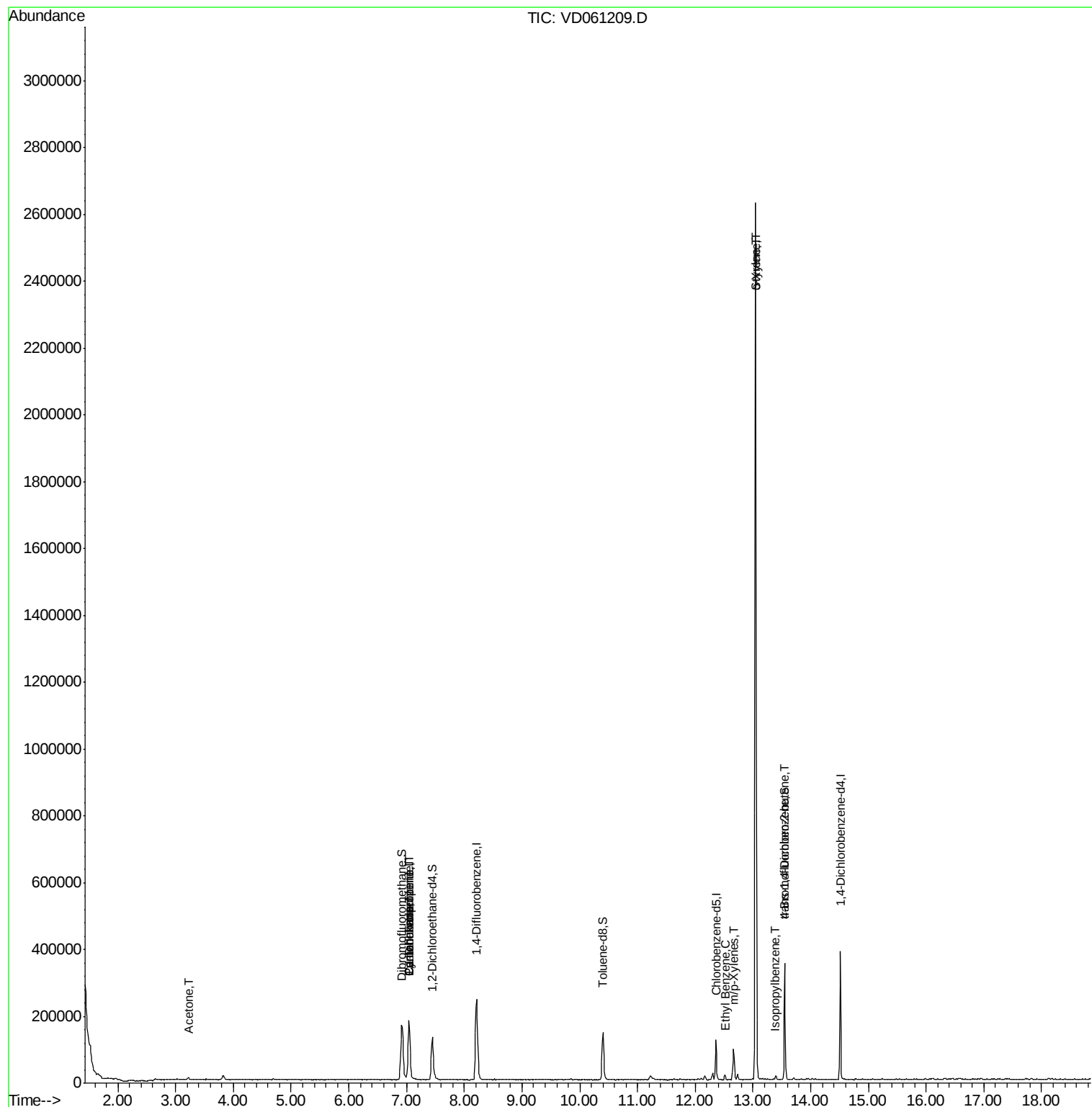
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.17	94	188	Below Cal	#	8
16) Acetone	3.22	43	10033	23.638	ug/l #	89
20) Methylene Chloride	3.82	84	8838	Below Cal		85
31) Cyclohexane	7.04	56	2814	1.071	ug/l #	1
36) 1,1-Dichloropropene	7.03	75	12245	4.495	ug/l #	39
38) Carbon Tetrachloride	7.04	117	15874	5.291	ug/l #	11
67) Ethyl Benzene	12.52	91	10263	4.537	ug/l	91
68) m/p-Xylenes	12.66	106	28431	32.022	ug/l	83
69) o-Xylene	13.05	106	764478	875.965	ug/l	100
70) Styrene	13.05	104	34062	23.902	ug/l #	1
73) Isopropylbenzene	13.39	105	7214	1.108	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.55	75	39683	103.546	ug/l #	17

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 08 02:35:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.00 min

Lab File: VD061209.D

Acq: 20 Mar 2019 15:45

Instrument :

MSVOA_D

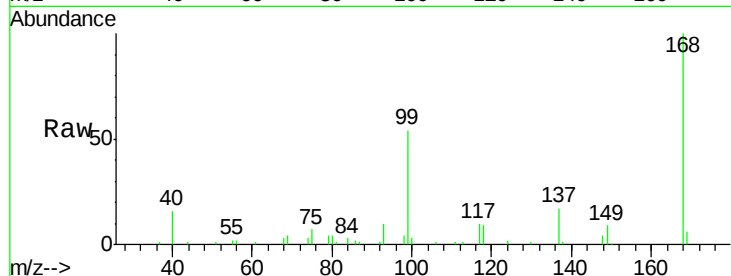
ClientSampleId :

Tot Ion:168 Resp: 178318

Ion Ratio Lower Upper

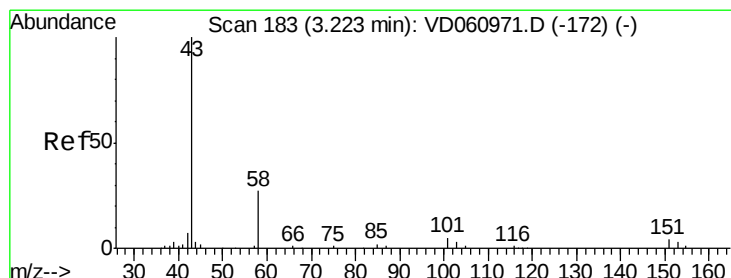
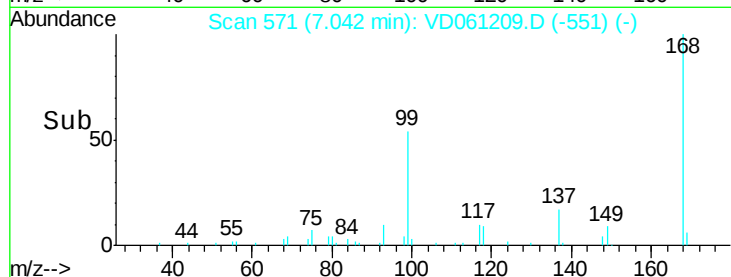
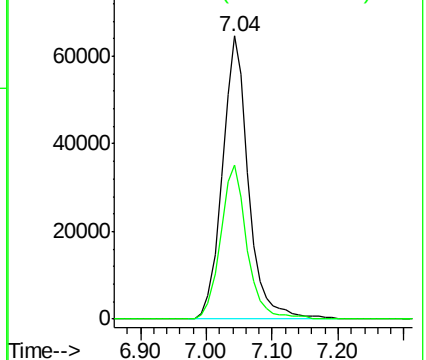
168 100

99 54.4 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 23.638 ug/l

RT: 3.22 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD061209.D

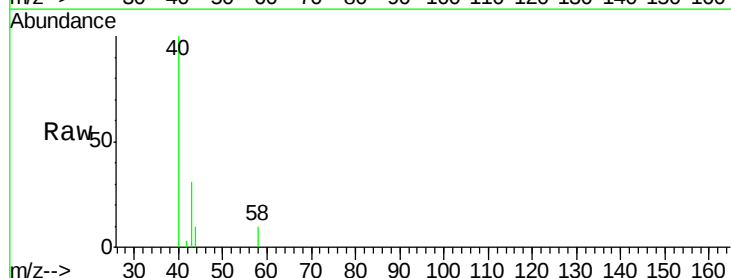
Acq: 20 Mar 2019 15:45

Tgt Ion: 43 Resp: 10033

Ion Ratio Lower Upper

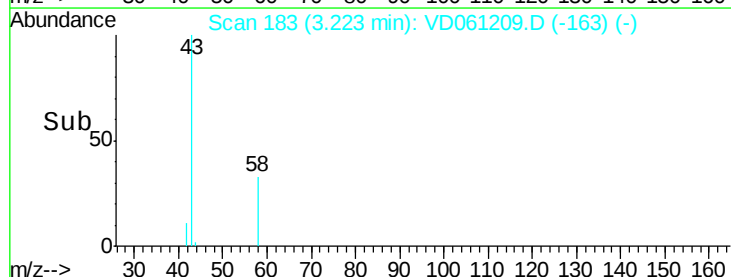
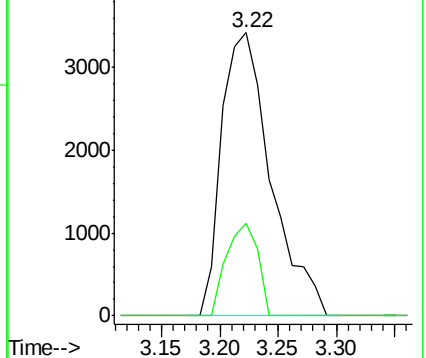
43 100

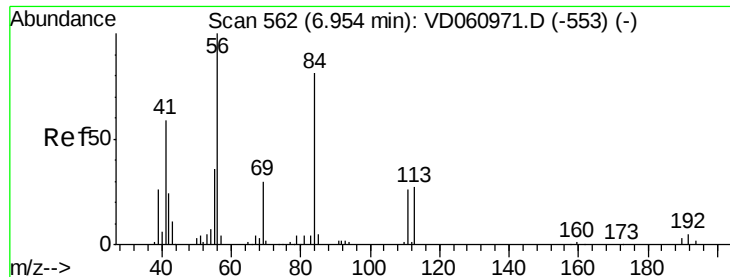
58 32.8 21.6 32.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

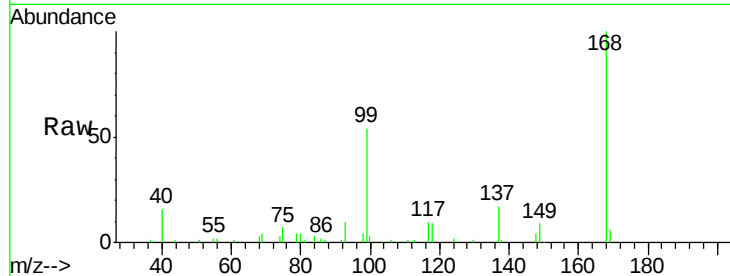




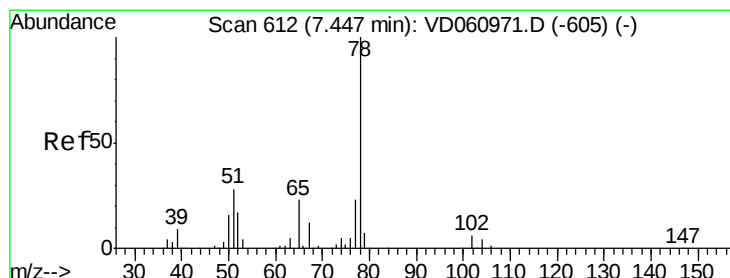
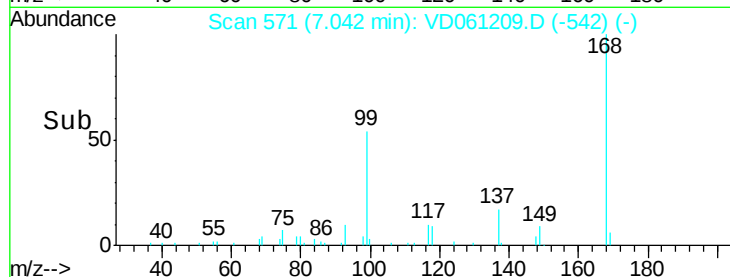
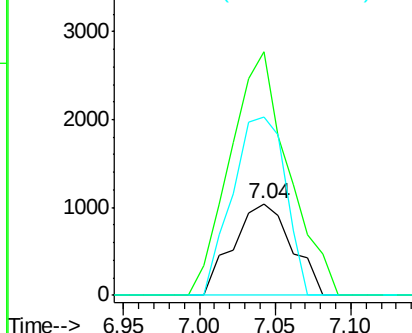
#31
Cyclohexane
Concen: 1.071 ug/l
RT: 7.04 min Scan# 571
Delta R.T. 0.09 min
Lab File: VD061209.D
Acq: 20 Mar 2019 15:45

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 2814
Ion Ratio Lower Upper
56 100
69 266.2 24.0 36.0#
84 194.3 65.8 98.6#

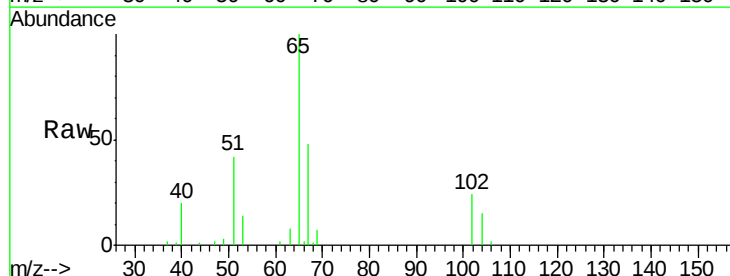


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

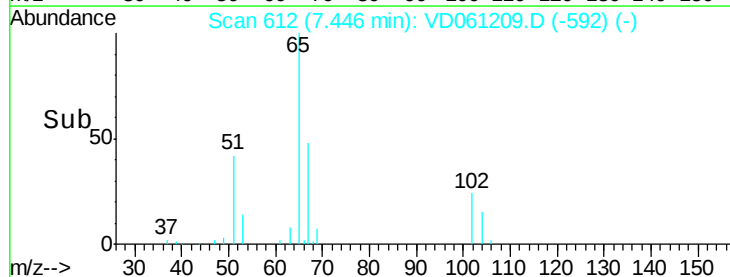
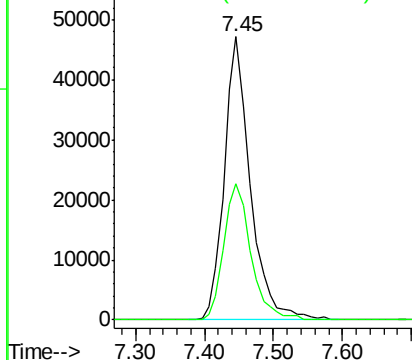


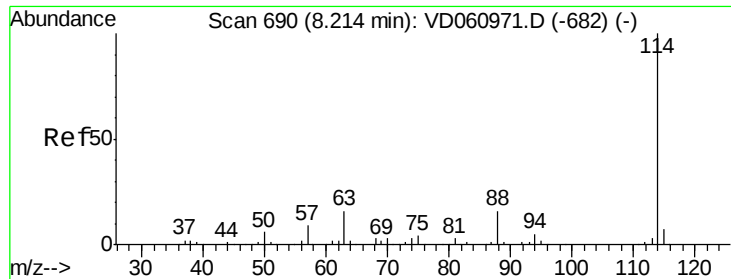
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 7.45 min Scan# 612
Delta R.T. -0.00 min
Lab File: VD061209.D
Acq: 20 Mar 2019 15:45

Tgt Ion: 65 Resp: 123239
Ion Ratio Lower Upper
65 100
67 47.9 0.0 105.2



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: 8.21 min Scan# 690

Delta R.T. -0.00 min

Lab File: VD061209.D

Acq: 20 Mar 2019 15:45

Instrument :

MSVOA_D

ClientSampleId :

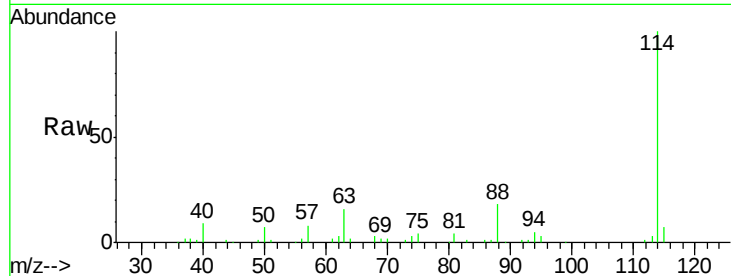
Tot Ion:114 Resp: 316003

Ion Ratio Lower Upper

114 100

63 15.5 0.0 31.4

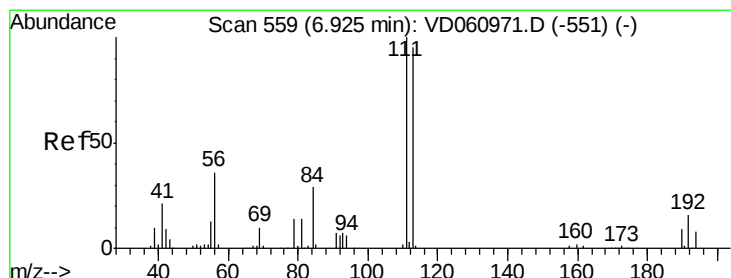
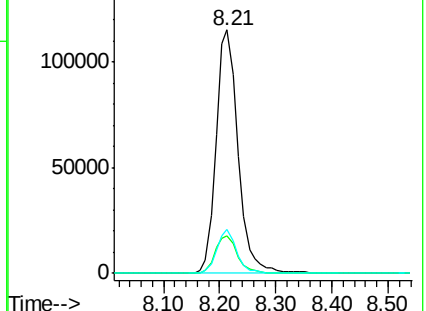
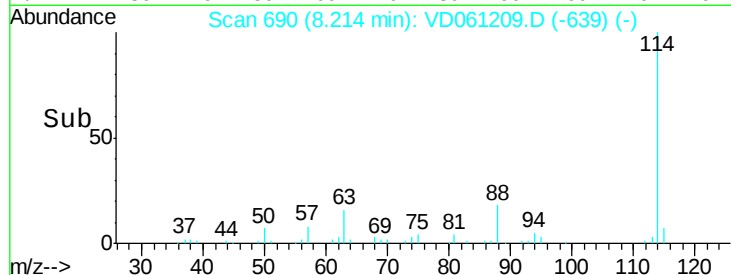
88 18.1 0.0 33.0



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: 50.000 ug/l

RT: 6.91 min Scan# 558

Delta R.T. -0.01 min

Lab File: VD061209.D

Acq: 20 Mar 2019 15:45

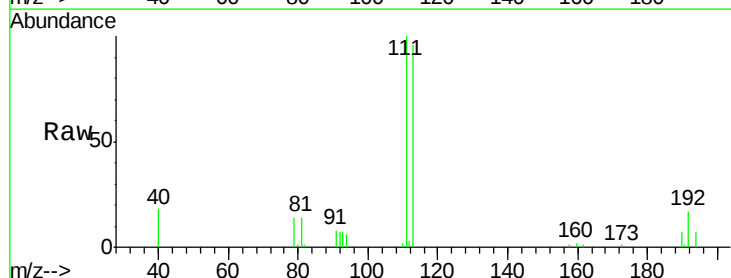
Tgt Ion:113 Resp: 161472

Ion Ratio Lower Upper

113 100

111 103.8 84.2 126.4

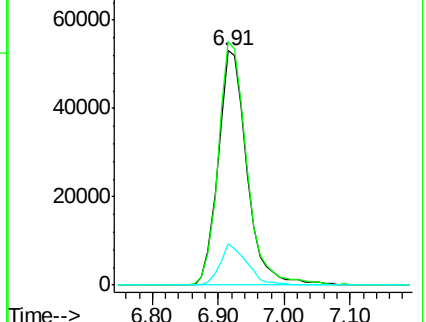
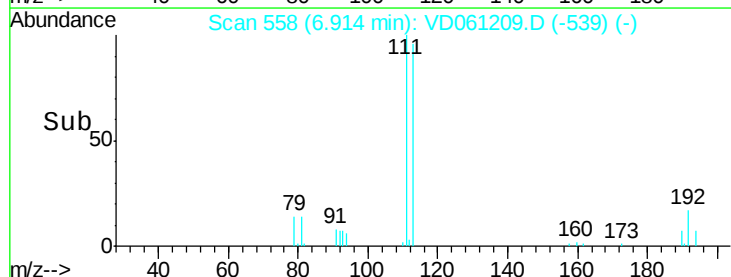
192 17.4 13.1 19.7

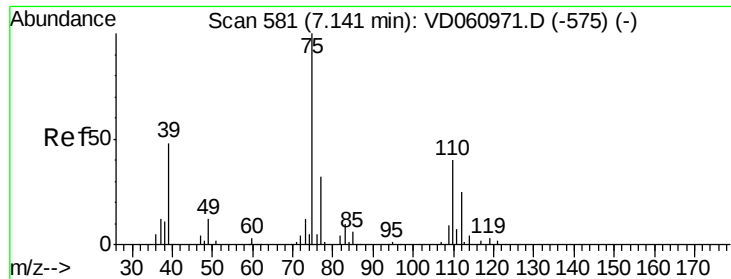


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 4.495 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.11 min

Lab File: VD061209.D

Acq: 20 Mar 2019 15:45

Instrument :
MSVOA_D
ClientSampleId :

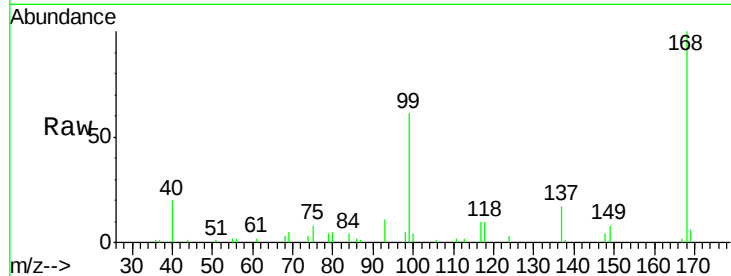
Tot Ion: 75 Resp: 12245

Ion Ratio Lower Upper

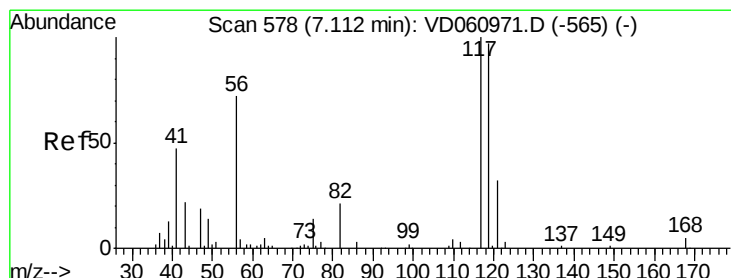
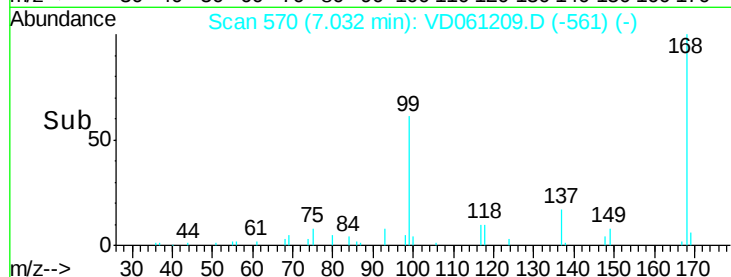
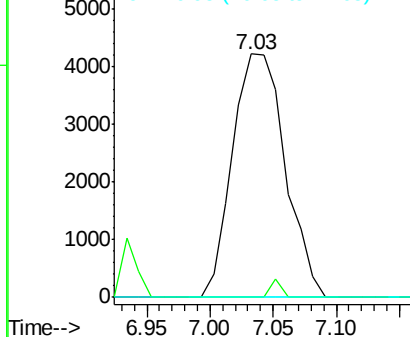
75 100

110 0.0 19.7 59.1#

77 0.0 24.7 37.1#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): VDC
Ion 76.95 (76.65 to 77.65): VDC



#38

Carbon Tetrachloride

Concen: 5.291 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.07 min

Lab File: VD061209.D

Acq: 20 Mar 2019 15:45

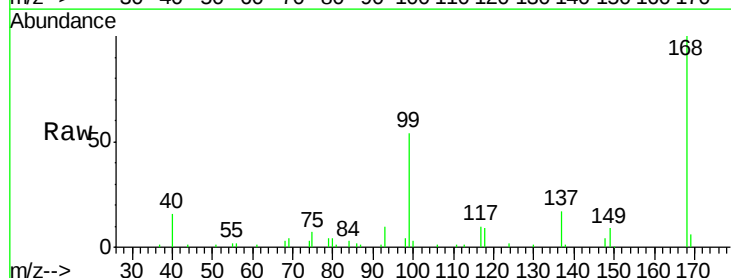
Tgt Ion: 117 Resp: 15874

Ion Ratio Lower Upper

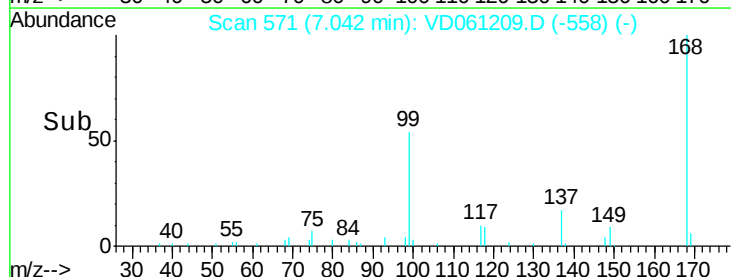
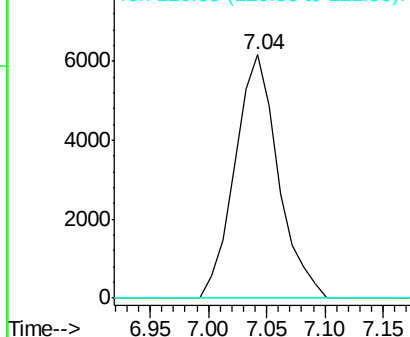
117 100

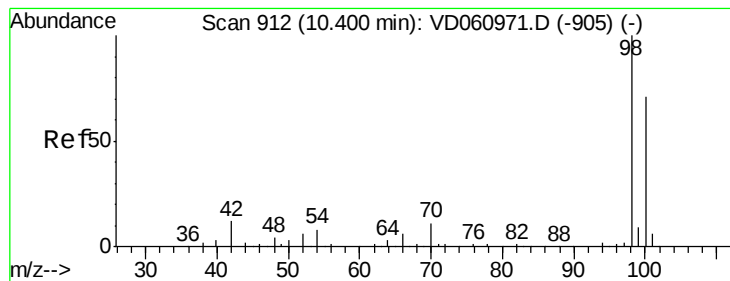
119 0.0 77.8 116.8#

121 0.0 25.3 37.9#



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





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.40 min Scan# 912

Delta R.T. -0.00 min

Lab File: VD061209.D

Acq: 20 Mar 2019 15:45

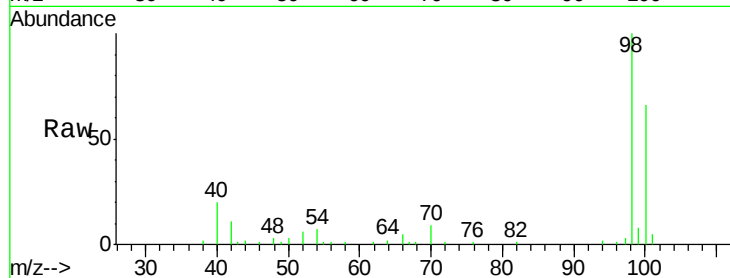
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 133799

Ion Ratio Lower Upper

98 100

100 65.7 57.4 86.2



Abundance Ion 98.05 (97.75 to 98.75): VD061209.D (-892) (-)

Ion 100.05 (99.75 to 100.75): VD061209.D (-892) (-)

60000

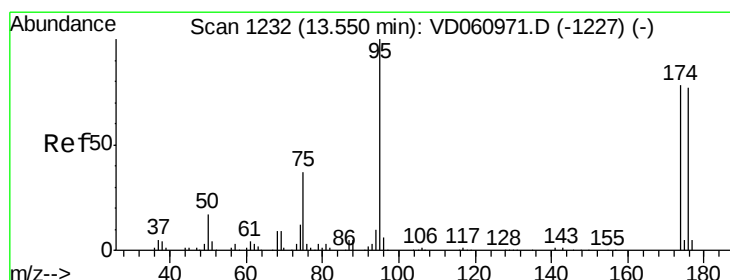
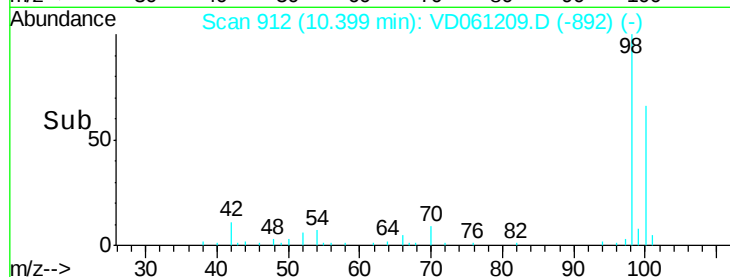
40000

20000

0

10.30 10.40 10.50

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD061209.D

Acq: 20 Mar 2019 15:45

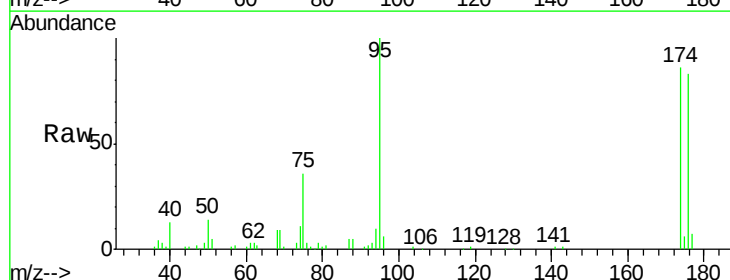
Tgt Ion: 95 Resp: 109676

Ion Ratio Lower Upper

95 100

174 86.0 0.0 155.6

176 83.2 0.0 153.8



Abundance Ion 95.00 (94.70 to 95.70): VD061209.D (-1212) (-)

Ion 173.90 (173.60 to 174.60): VD061209.D (-1212) (-)

Ion 175.90 (175.60 to 176.60): VD061209.D (-1212) (-)

100000

80000

60000

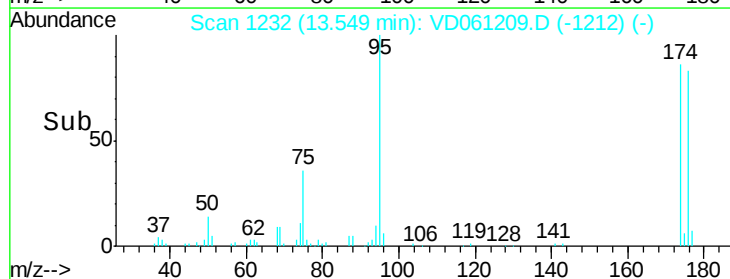
40000

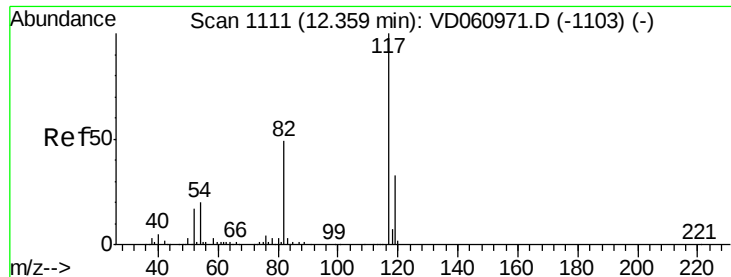
20000

0

13.50 13.55 13.60

Time-->

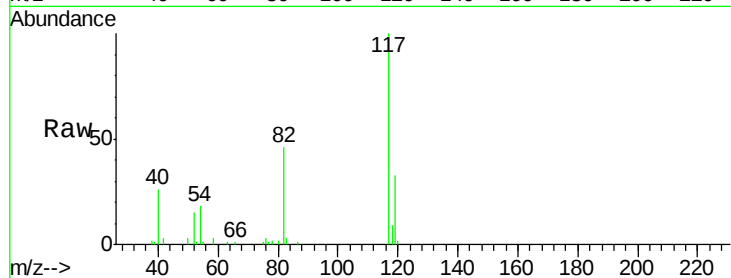




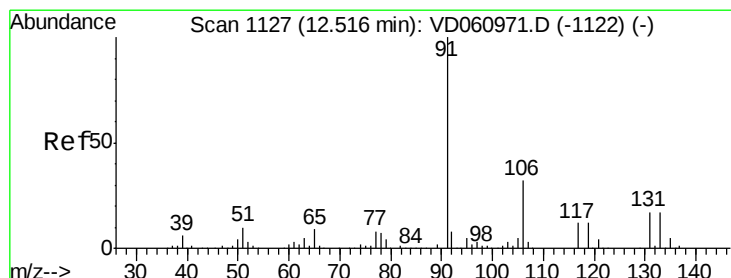
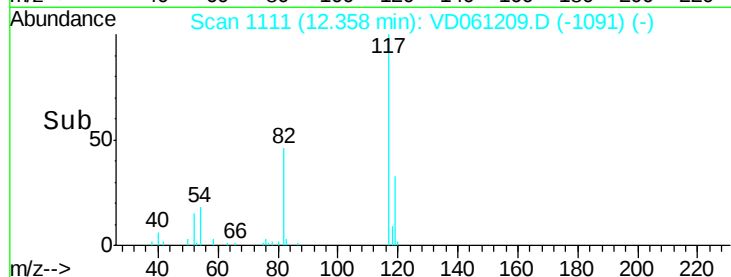
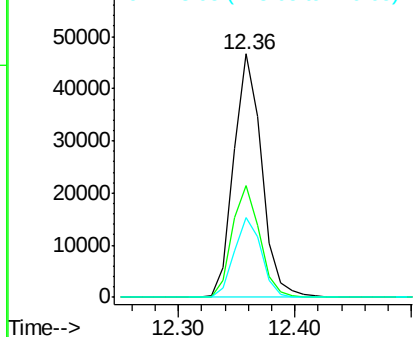
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VD061209.D
Acq: 20 Mar 2019 15:45

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 77506
Ion Ratio Lower Upper
117 100
82 45.7 38.9 58.3
119 32.9 26.6 39.8

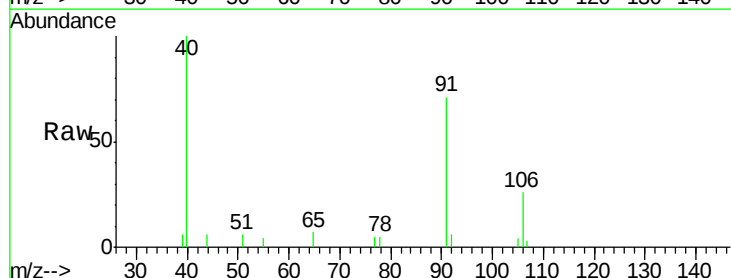


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

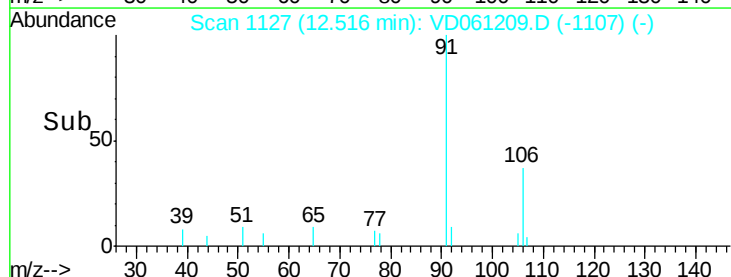
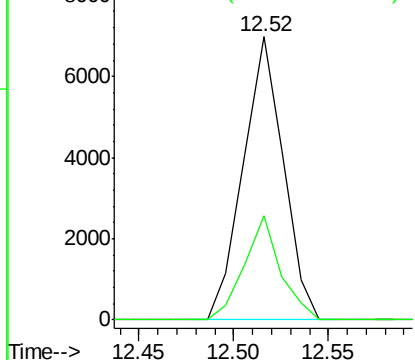


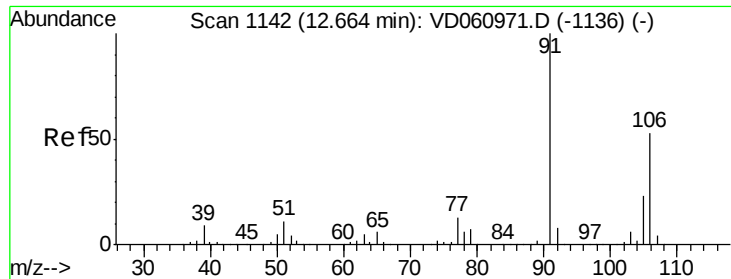
#67
Ethyl Benzene
Concen: 4.537 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.00 min
Lab File: VD061209.D
Acq: 20 Mar 2019 15:45

Tgt Ion: 91 Resp: 10263
Ion Ratio Lower Upper
91 100
106 36.9 25.7 38.5



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 106.05 (105.75 to 106.75): V

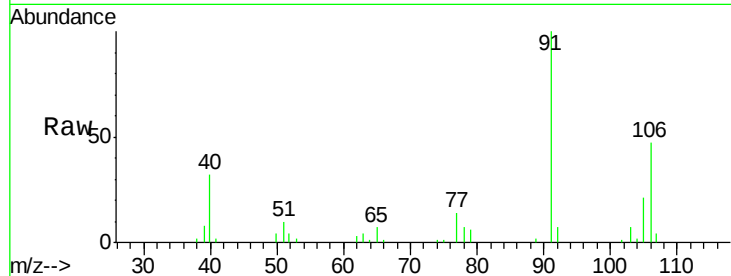




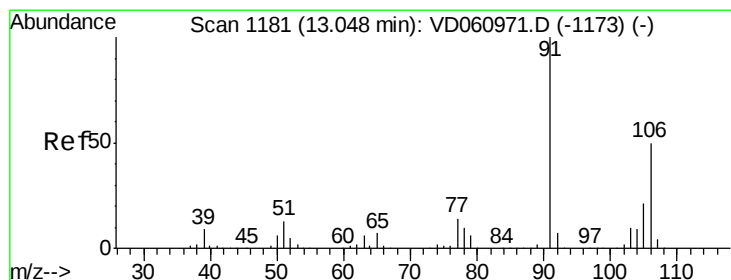
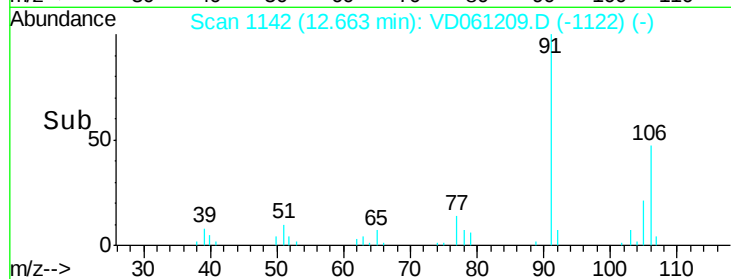
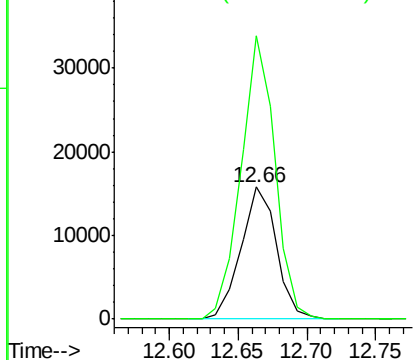
#68
m/p-Xylenes
Concen: 32.022 ug/l
RT: 12.66 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VD061209.D
Acq: 20 Mar 2019 15:45

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 28431
Ion Ratio Lower Upper
106 100
91 214.2 152.0 228.0

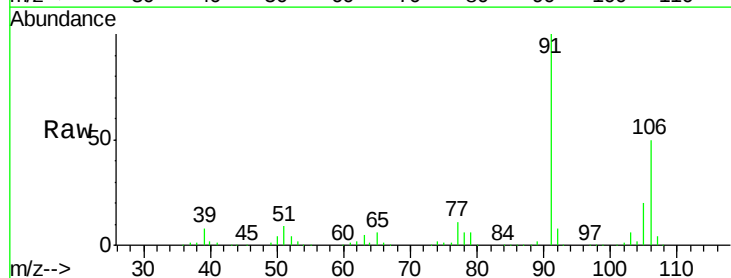


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

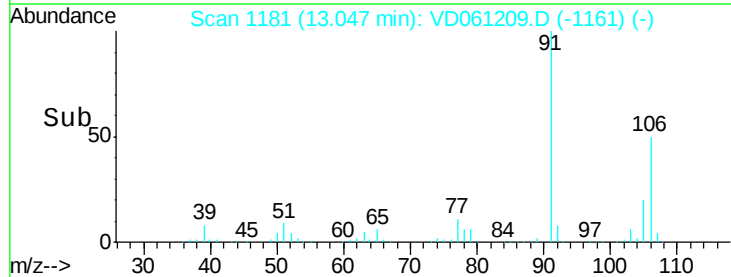
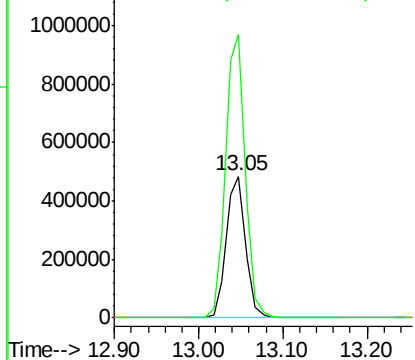


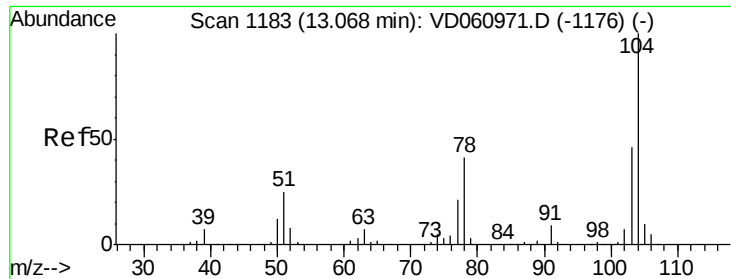
#69
o-Xylene
Concen: 875.965 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD061209.D
Acq: 20 Mar 2019 15:45

Tgt Ion:106 Resp: 764478
Ion Ratio Lower Upper
106 100
91 200.1 99.8 299.3



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC





#70

Stvrene

Concen: 23.902 ug/l

RT: 13.05 min Scan# 1181

Delta R.T. -0.02 min

Lab File: VD061209.D

Acq: 20 Mar 2019 15:45

Instrument :

MSVOA_D

ClientSampleId :

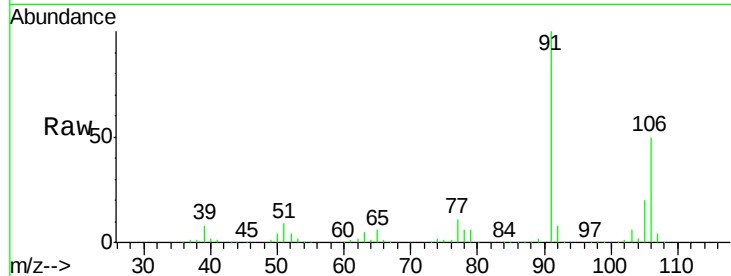
Tot Ion:104 Resp: 34062

Ion Ratio Lower Upper

104 100

78 288.8 33.0 49.4#

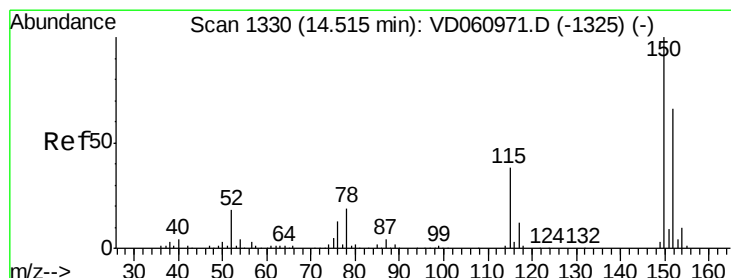
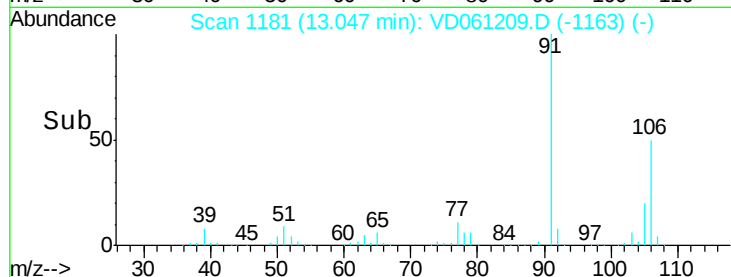
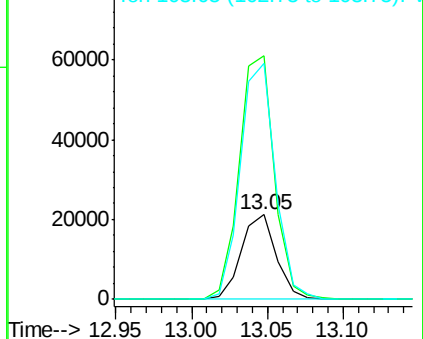
103 279.9 37.1 55.7#



Abundance Ion 104.05 (103.75 to 104.75): V

Ion 77.95 (77.65 to 78.65): VD

Ion 103.05 (102.75 to 103.75): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD061209.D

Acq: 20 Mar 2019 15:45

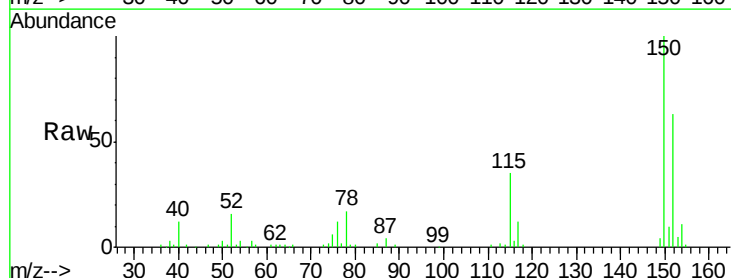
Tgt Ion:152 Resp: 90354

Ion Ratio Lower Upper

152 100

115 56.2 28.6 85.9

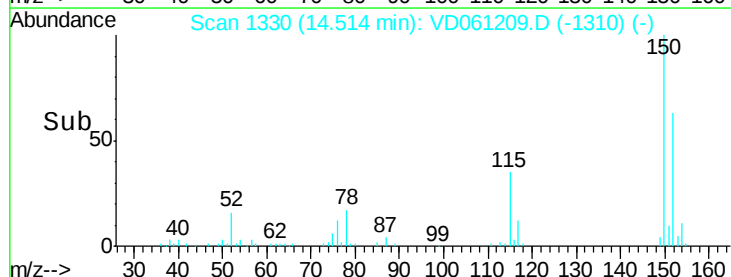
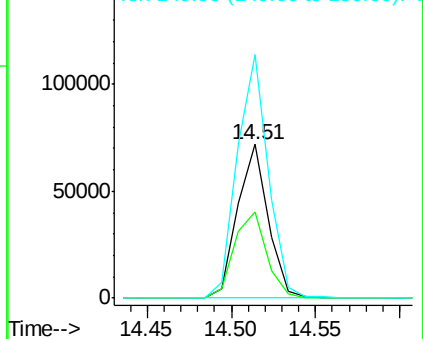
150 158.4 0.0 310.6

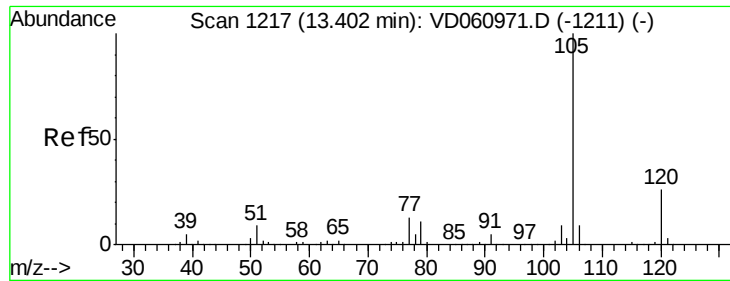


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 1.108 ug/l

RT: 13.39 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VD061209.D

Acq: 20 Mar 2019 15:45

Instrument :

MSVOA_D

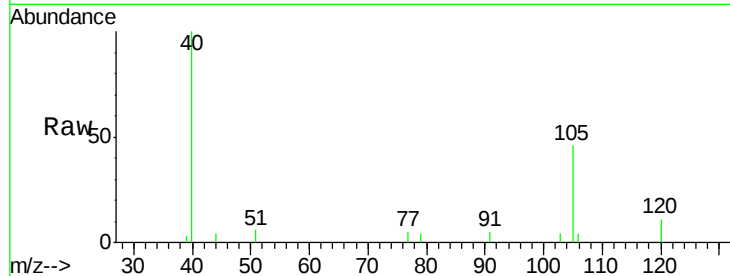
ClientSampled :

Tot Ion:105 Resp: 7214

Ion Ratio Lower Upper

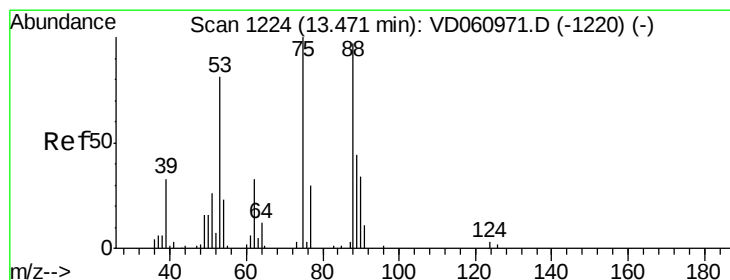
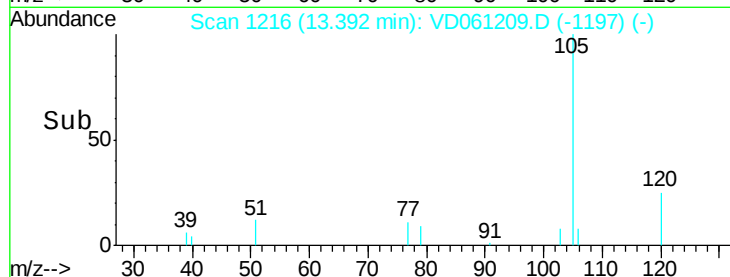
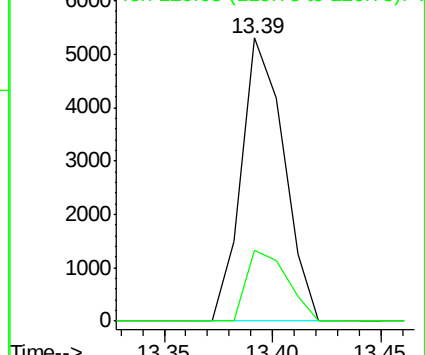
105 100

120 24.9 12.8 38.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#81

trans-1,4-Dichloro-2-butene

Concen: 103.546 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061209.D

Acq: 20 Mar 2019 15:45

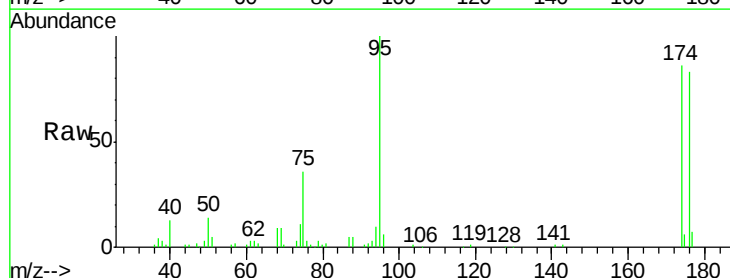
Tgt Ion: 75 Resp: 39683

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

89 0.0 34.8 52.2#



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

