

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032119\
 Data File : VD061250.D
 Acq On : 21 Mar 2019 17:45
 Operator : VA/AP
 Sample : K2024-01
 Misc : 7.84g/5ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 22 04:32:51 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	7.08	168	8774	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.25	114	16158	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.38	117	13930	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	5407	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	4796	65.67	ug/l	0.02
Spiked Amount			Recovery	=	131.34%	
35) Dibromofluoromethane	6.95	113	1513	12.62	ug/l	0.02
Spiked Amount			Recovery	=	25.24%	
50) Toluene-d8	10.43	98	13181	43.77	ug/l	0.03
Spiked Amount			Recovery	=	87.54%	
62) 4-Bromofluorobenzene	13.56	95	5723	48.98	ug/l	0.01
Spiked Amount			Recovery	=	97.96%	

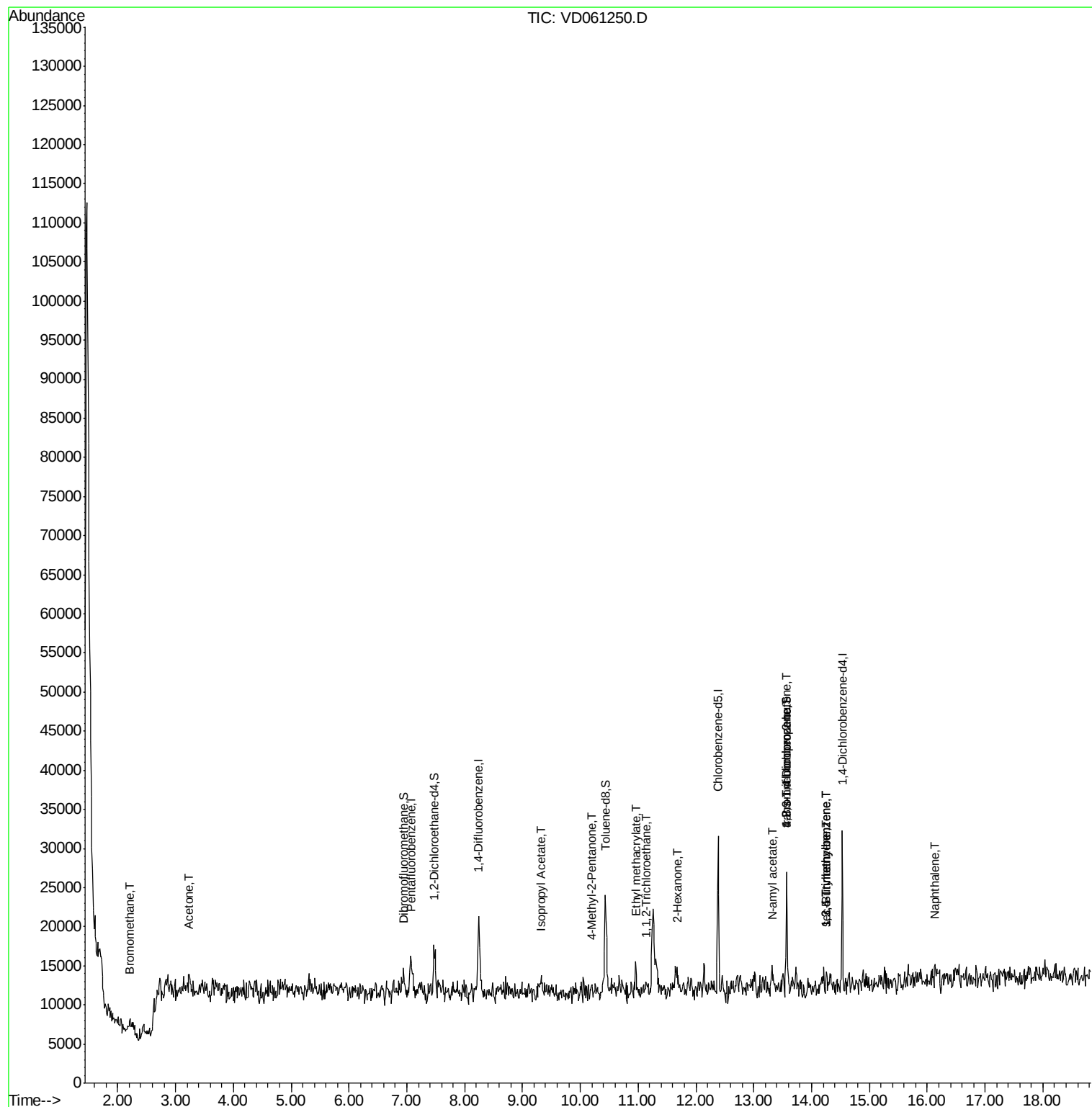
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.22	94	181	12.837	ug/l #	8
16) Acetone	3.23	43	4403	210.826	ug/l #	48
43) Isopropyl Acetate	9.32	43	181	1.999	ug/l #	43
51) 4-Methyl-2-Pentanone	10.20	43	908	16.373	ug/l #	37
55) 1,1,2-Trichloroethane	11.13	97	192	2.664	ug/l #	15
56) Ethyl methacrylate	10.96	69	214	2.837	ug/l #	28
59) 2-Hexanone	11.67	43	1156	28.496	ug/l #	25
74) N-amyl acetate	13.31	43	221	2.014	ug/l #	17
76) 1,2,3-Trichloropropane	13.56	75	1984	25.505	ug/l #	42
80) 1,3,5-Trimethylbenzene	14.25	105	544	1.839	ug/l #	31
81) trans-1,4-Dichloro-2-buten	13.56	75	1984	86.509	ug/l #	17
84) 1,2,4-Trimethylbenzene	14.25	105	544	1.839	ug/l #	31
85) sec-Butylbenzene	14.25	105	544	1.376	ug/l #	58
95) Naphthalene	16.13	128	2428	23.260	ug/l #	70

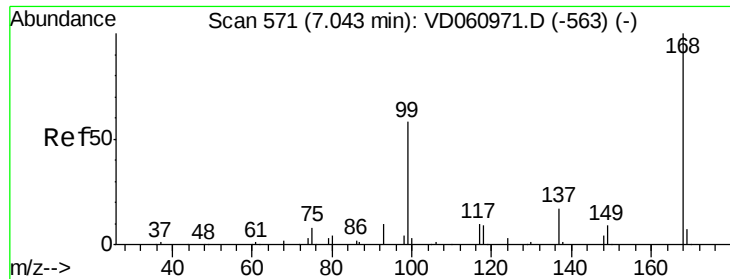
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD032119\
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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: 7.08 min Scan# 574

Delta R.T. 0.03 min

Lab File: VD061250.D

Acq: 21 Mar 2019 17:45

Instrument :

MSVOA_D

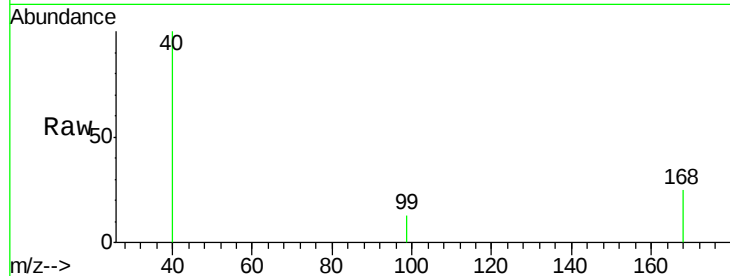
ClientSampleId :

Tot Ion:168 Resp: 8774

Ion Ratio Lower Upper

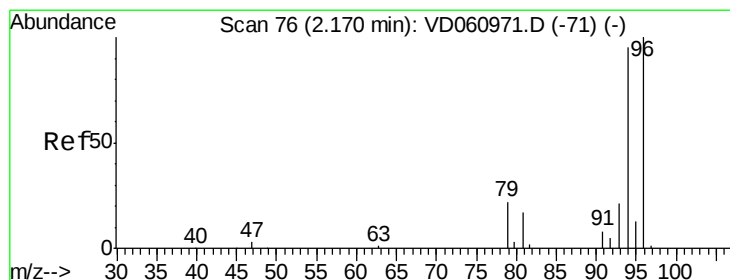
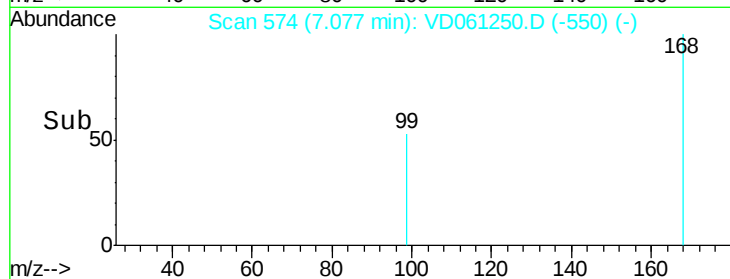
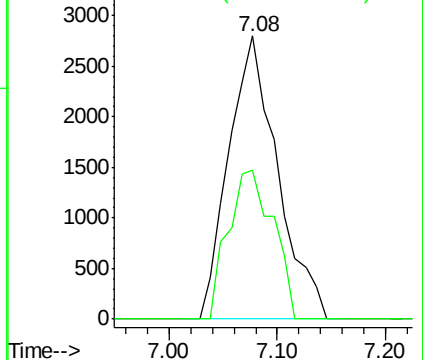
168 100

99 52.5 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 12.837 ug/l

RT: 2.22 min Scan# 81

Delta R.T. 0.06 min

Lab File: VD061250.D

Acq: 21 Mar 2019 17:45

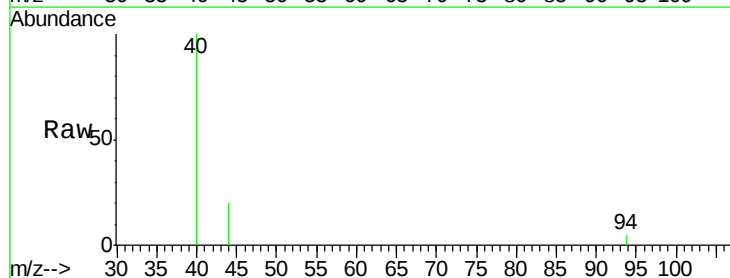
Tgt Ion: 94 Resp: 181

Ion Ratio Lower Upper

94 100

96 0.0 84.0 126.0#

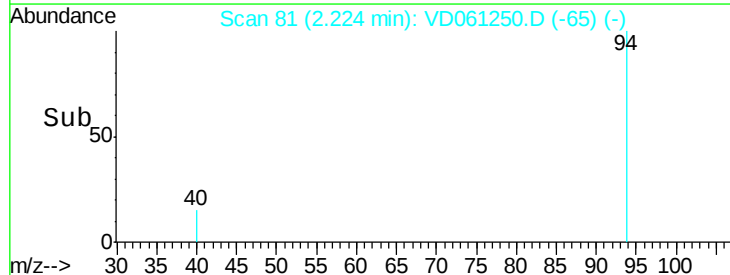
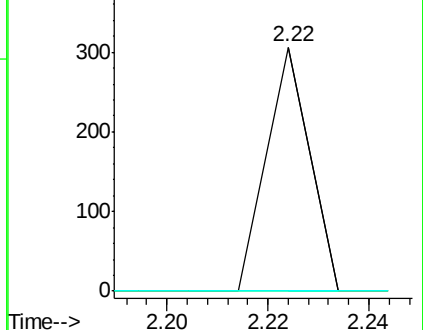
93 0.0 17.3 25.9#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

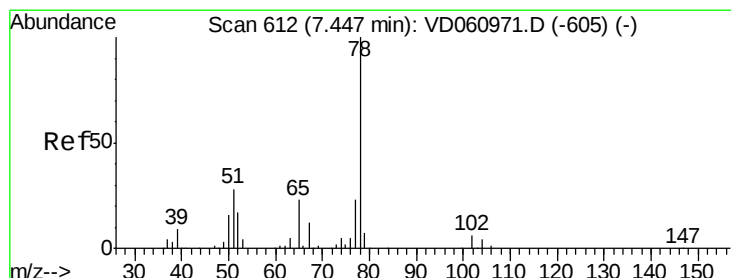
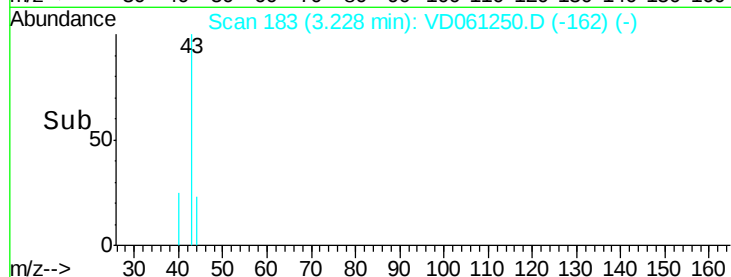
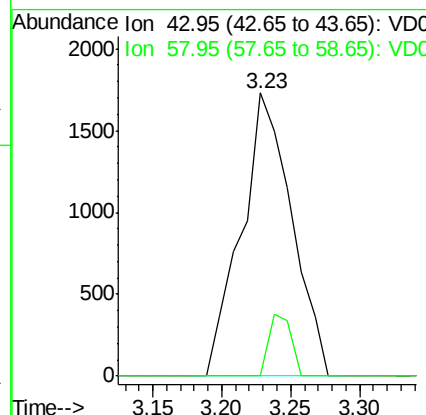
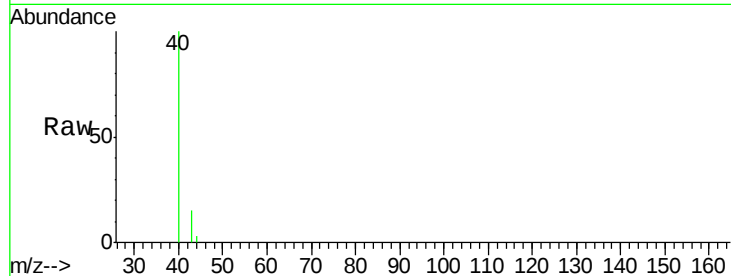




#16
Acetone
Concen: 210.826 ug/l
RT: 3.23 min Scan# 183
Delta R.T. 0.00 min
Lab File: VD061250.D
Acq: 21 Mar 2019 17:45

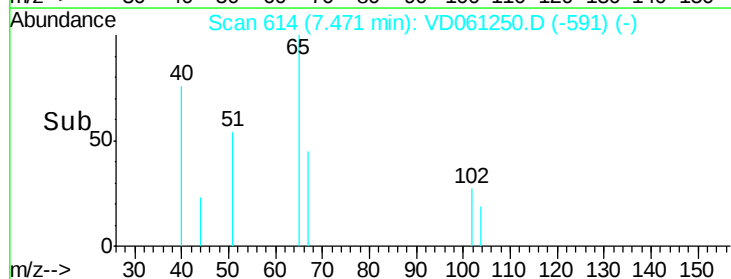
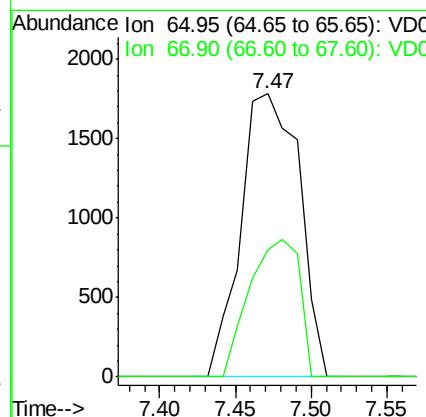
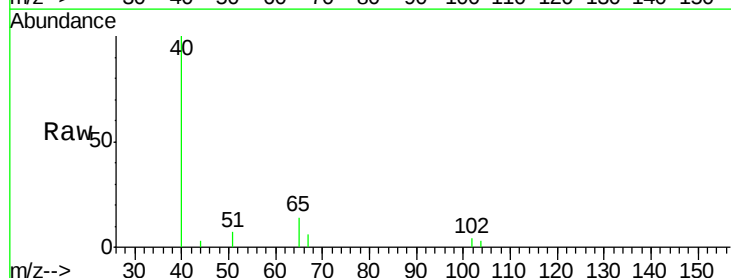
Instrument :
MSVOA_D
ClientSampleId :

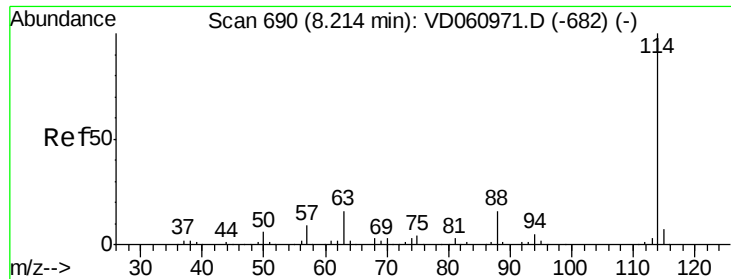
Tot Ion: 43 Resp: 4403
Ion Ratio Lower Upper
43 100
58 0.0 21.6 32.4#



#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 7.47 min Scan# 614
Delta R.T. 0.02 min
Lab File: VD061250.D
Acq: 21 Mar 2019 17:45

Tgt Ion: 65 Resp: 4796
Ion Ratio Lower Upper
65 100
67 45.1 0.0 105.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.25 min Scan# 693

Delta R.T. 0.03 min

Lab File: VD061250.D

Acq: 21 Mar 2019 17:45

Instrument :

MSVOA_D

ClientSampleId :

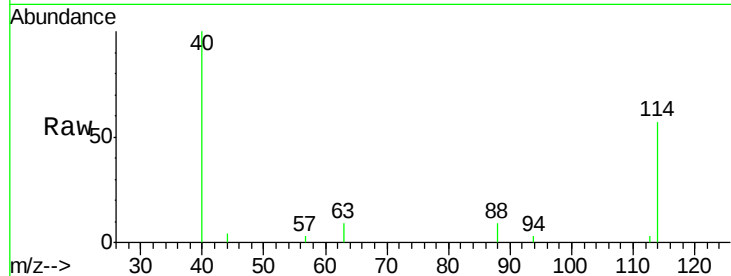
Tot Ion:114 Resp: 16158

Ion Ratio Lower Upper

114 100

63 16.3 0.0 31.4

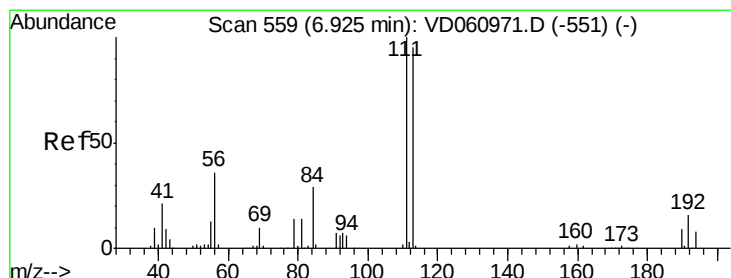
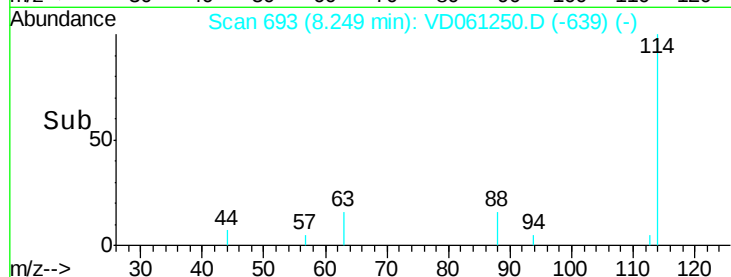
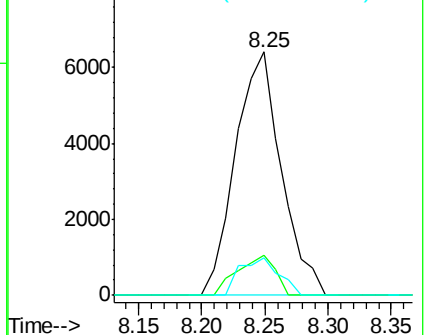
88 15.5 0.0 33.0



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: 6.95 min Scan# 561

Delta R.T. 0.02 min

Lab File: VD061250.D

Acq: 21 Mar 2019 17:45

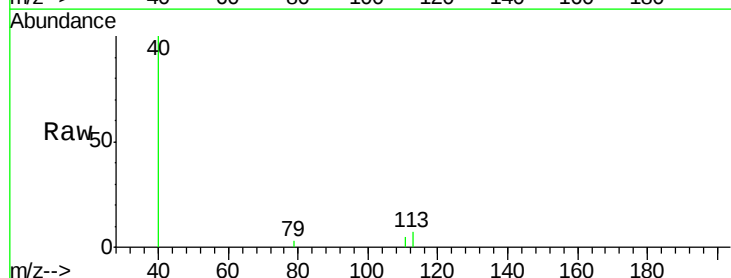
Tgt Ion:113 Resp: 1513

Ion Ratio Lower Upper

113 100

111 64.6 84.2 126.4#

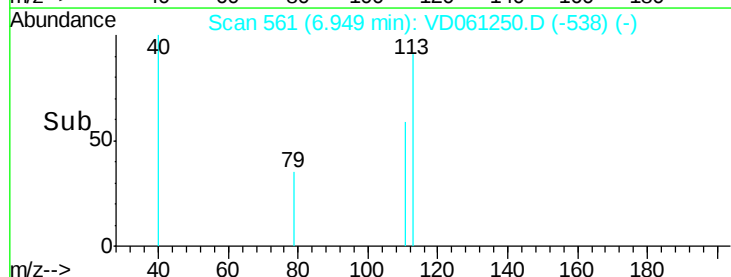
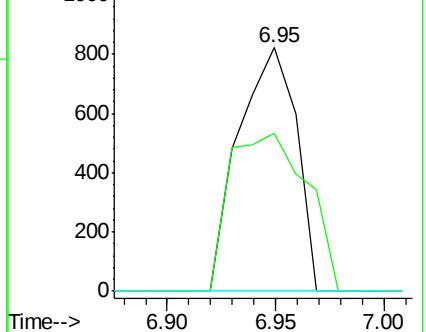
192 0.0 13.1 19.7#

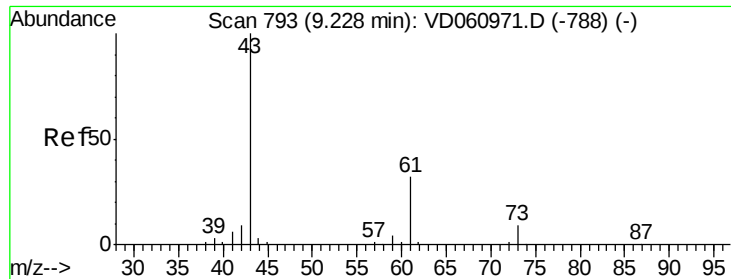


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#43

Isopropyl Acetate

Concen: 1.999 ug/l

RT: 9.32 min Scan# 802

Delta R.T. 0.09 min

Lab File: VD061250.D

Acq: 21 Mar 2019 17:45

Instrument :

MSVOA_D

ClientSampleId :

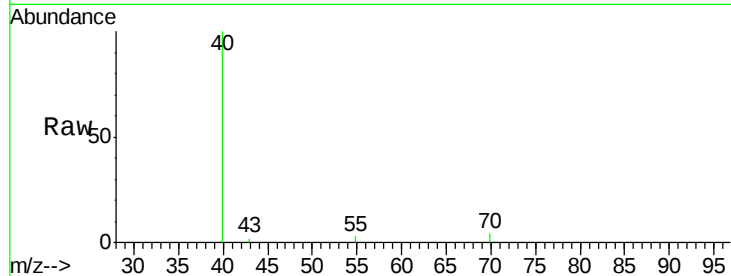
Tot Ion: 43 Resp: 181

Ion Ratio Lower Upper

43 100

61 0.0 25.6 38.4#

87 0.0 0.2 0.4#



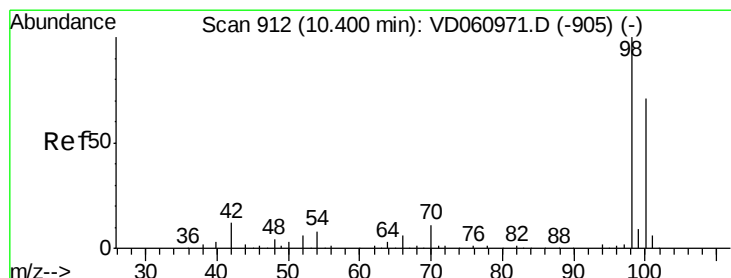
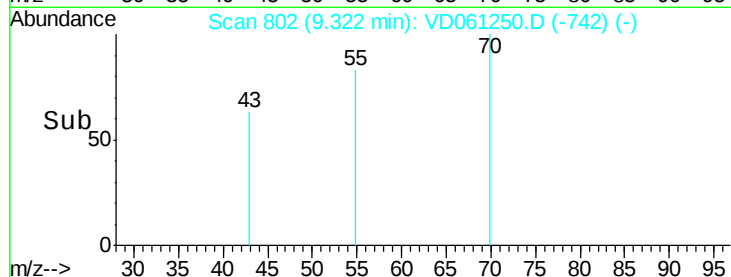
Abundance Ion 42.95 (42.65 to 43.65): VD061250.D (-742) (-)

Ion 60.95 (60.65 to 61.65): VD061250.D (-742) (-)

Ion 87.00 (86.70 to 87.70): VD061250.D (-742) (-)

9.32

Time-->



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.43 min Scan# 915

Delta R.T. 0.03 min

Lab File: VD061250.D

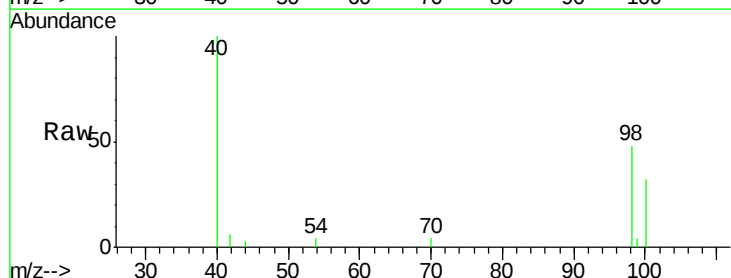
Acq: 21 Mar 2019 17:45

Tgt Ion: 98 Resp: 13181

Ion Ratio Lower Upper

98 100

100 66.2 57.4 86.2

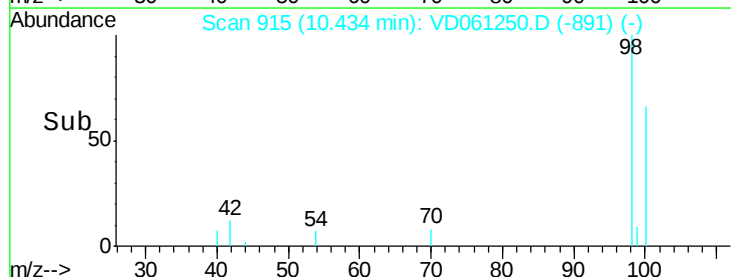


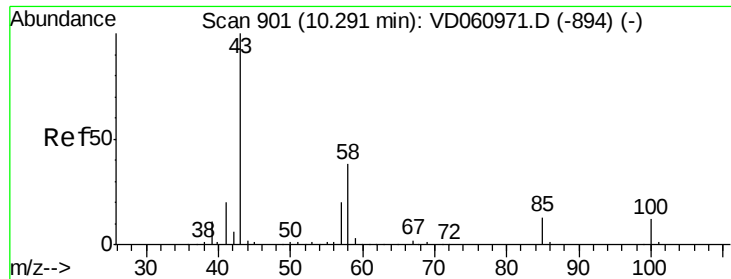
Abundance Ion 98.05 (97.75 to 98.75): VD061250.D (-891) (-)

Ion 100.05 (99.75 to 100.75): VD061250.D (-891) (-)

10.43

Time-->





#51

4-Methyl-2-Pentanone

Concen: 16.373 ug/l

RT: 10.20 min Scan# 891

Delta R.T. -0.09 min

Lab File: VD061250.D

Acq: 21 Mar 2019 17:45

Instrument :

MSVOA_D

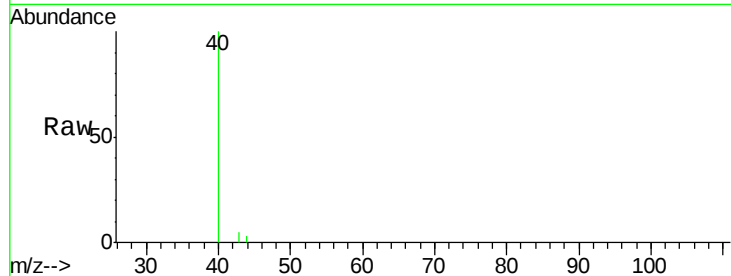
ClientSampleId :

Tot Ion: 43 Resp: 908

Ion Ratio Lower Upper

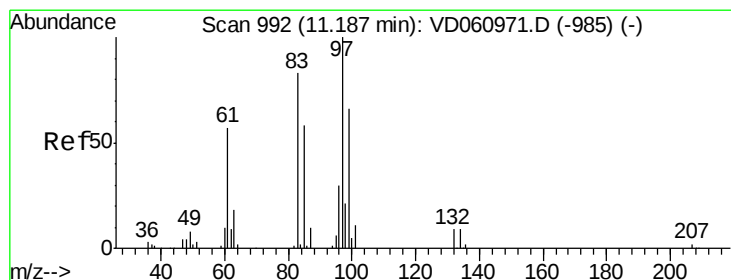
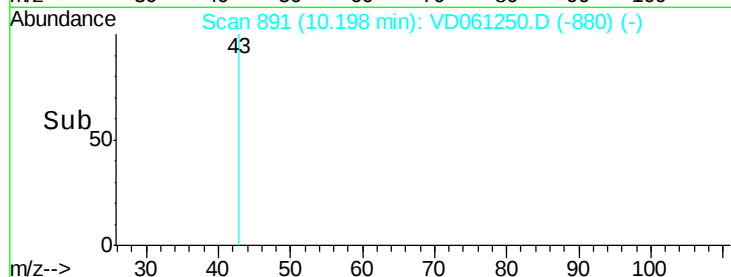
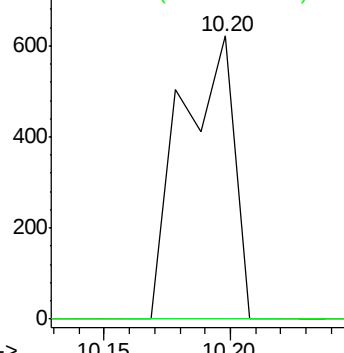
43 100

58 0.0 30.2 45.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#55

1,1,2-Trichloroethane

Concen: 2.664 ug/l

RT: 11.13 min Scan# 986

Delta R.T. -0.05 min

Lab File: VD061250.D

Acq: 21 Mar 2019 17:45

Tgt Ion: 97 Resp: 192

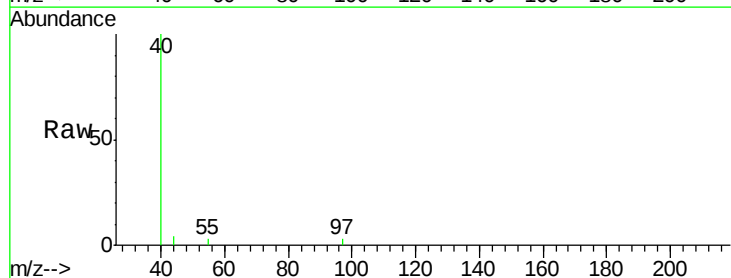
Ion Ratio Lower Upper

97 100

83 0.0 66.6 100.0#

85 0.0 46.4 69.6#

99 0.0 52.4 78.6#

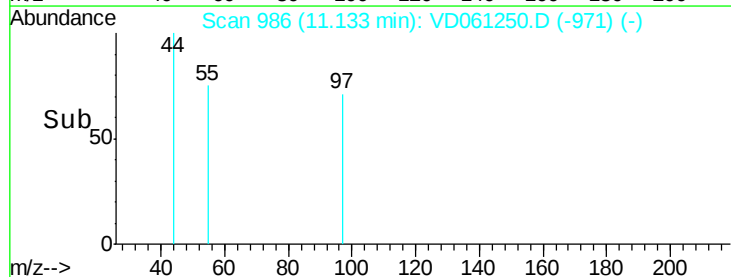
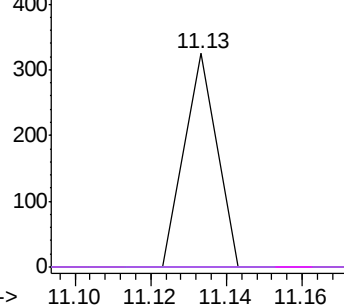


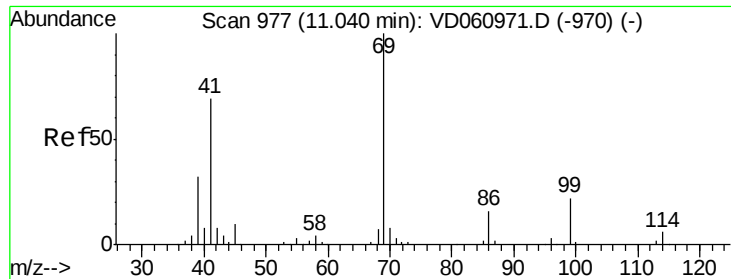
Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC





#56

Ethyl methacrylate

Concen: 2.837 ug/l

RT: 10.96 min Scan# 968

Delta R.T. -0.08 min

Lab File: VD061250.D

Acq: 21 Mar 2019 17:45

Instrument :
MSVOA_D
ClientSampled :

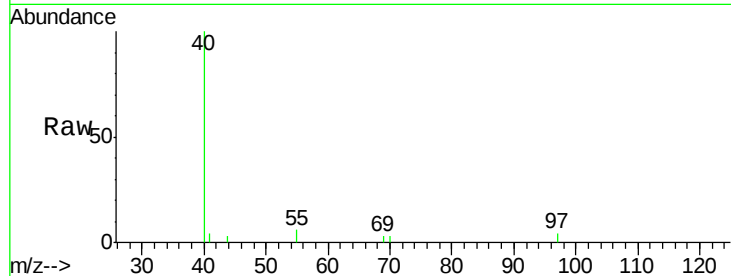
Tot Ion: 69 Resp: 214

Ion Ratio Lower Upper

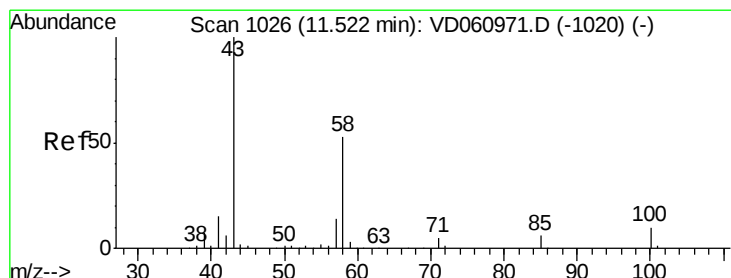
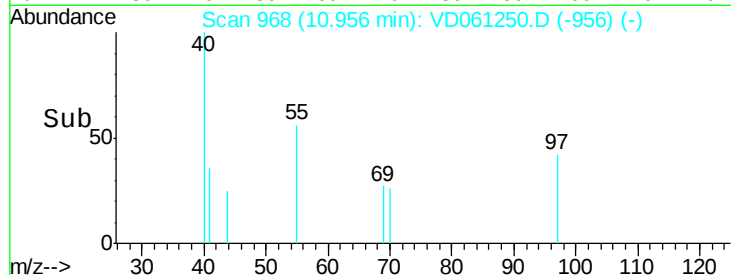
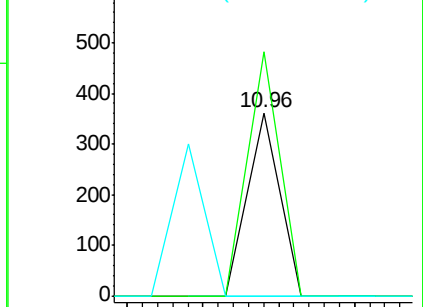
69 100

41 133.1 55.5 83.3#

39 0.0 26.2 39.2#



Abundance Ion 69.00 (68.70 to 69.70): VDC
Ion 41.05 (40.75 to 41.75): VDC
Ion 38.95 (38.65 to 39.65): VDC



#59

2-Hexanone

Concen: 28.496 ug/l

RT: 11.67 min Scan# 1041

Delta R.T. 0.15 min

Lab File: VD061250.D

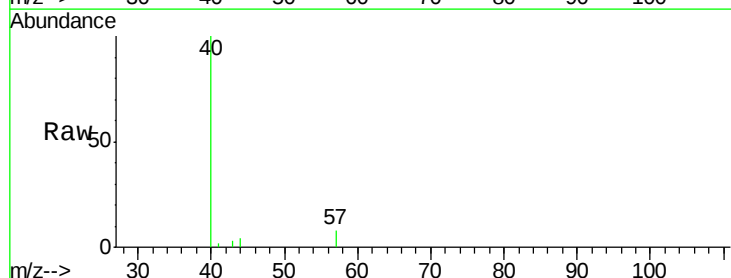
Acq: 21 Mar 2019 17:45

Tgt Ion: 43 Resp: 1156

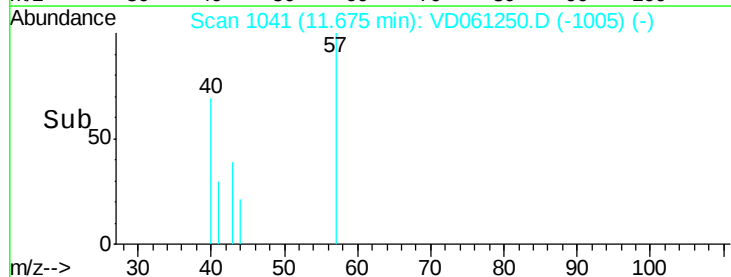
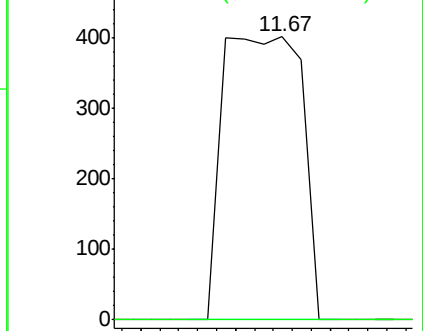
Ion Ratio Lower Upper

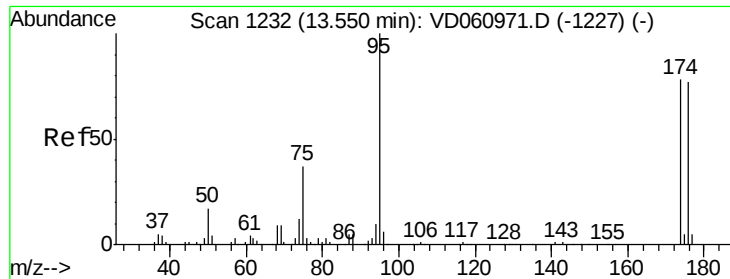
43 100

58 0.0 26.5 79.5#



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





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD061250.D

Acq: 21 Mar 2019 17:45

Instrument :

MSVOA_D

ClientSampled :

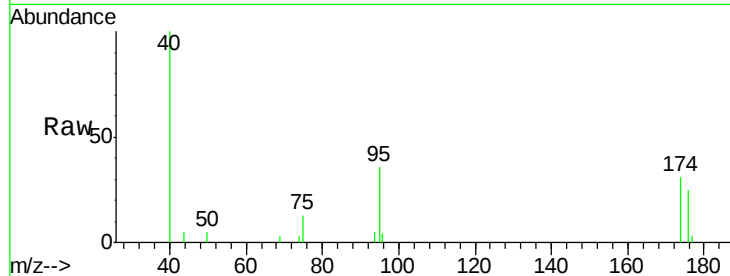
Tot Ion: 95 Resp: 5723

Ion Ratio Lower Upper

95 100

174 85.0 0.0 155.6

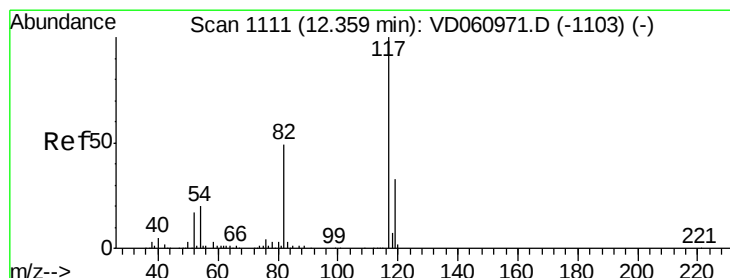
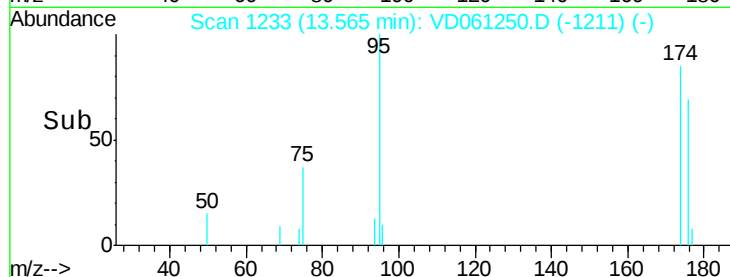
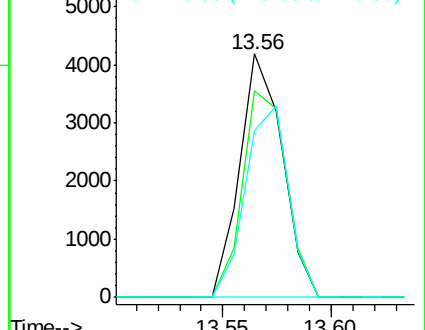
176 68.6 0.0 153.8



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: 12.38 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VD061250.D

Acq: 21 Mar 2019 17:45

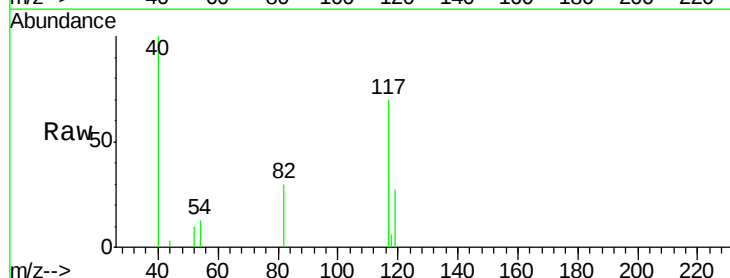
Tgt Ion: 117 Resp: 13930

Ion Ratio Lower Upper

117 100

82 42.9 38.9 58.3

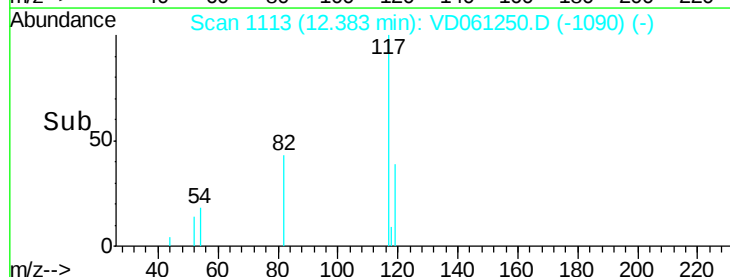
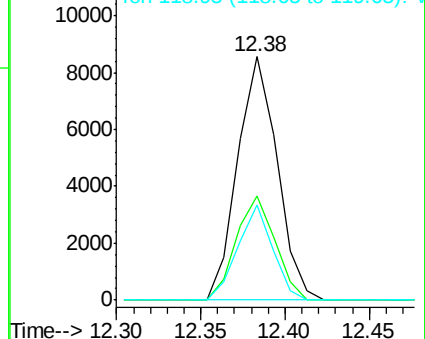
119 38.8 26.6 39.8

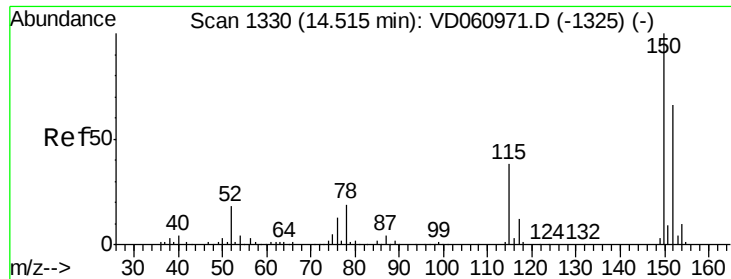


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD061250.D

Acq: 21 Mar 2019 17:45

Instrument :

MSVOA_D

ClientSampleId :

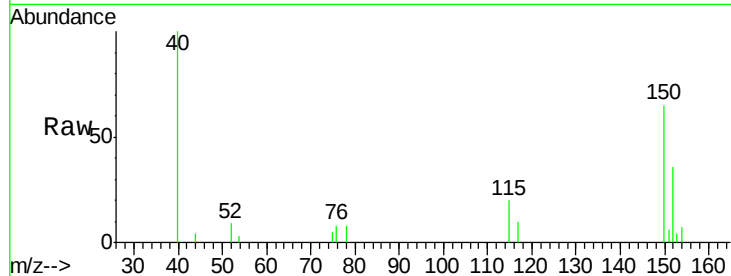
Tot Ion:152 Resp: 5407

Ion Ratio Lower Upper

152 100

115 54.9 28.6 85.9

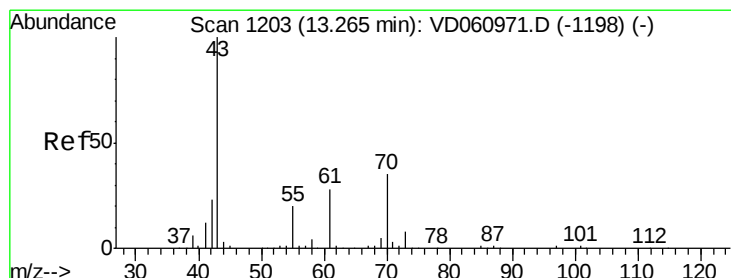
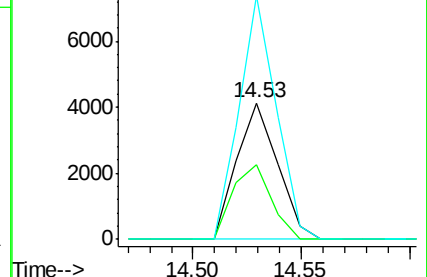
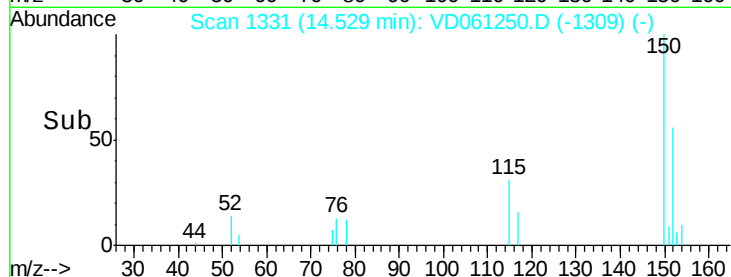
150 178.8 0.0 310.6



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



#74

N-ethyl acetate

Concen: 2.014 ug/l

RT: 13.31 min Scan# 1207

Delta R.T. 0.04 min

Lab File: VD061250.D

Acq: 21 Mar 2019 17:45

Tgt Ion: 43 Resp: 221

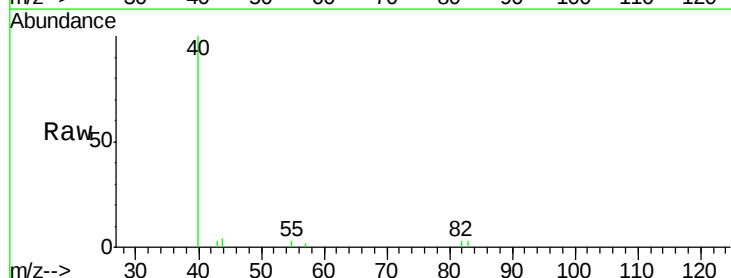
Ion Ratio Lower Upper

43 100

70 0.0 27.7 41.5#

55 94.9 16.2 24.2#

61 0.0 22.3 33.5#

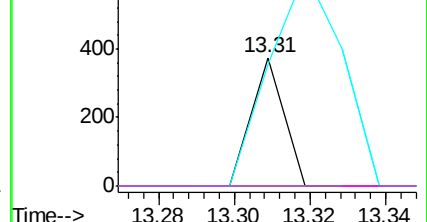
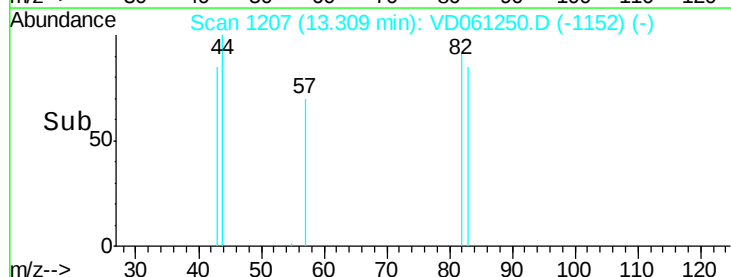


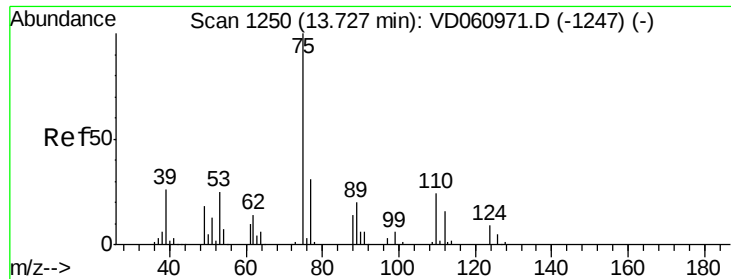
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

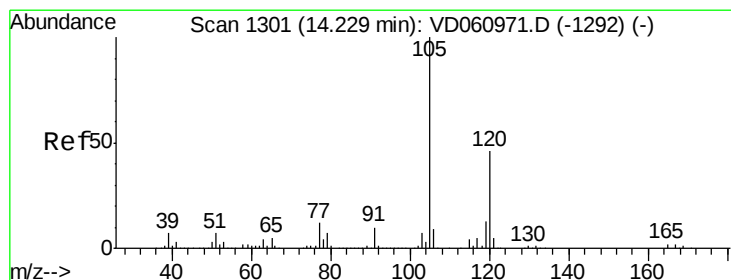
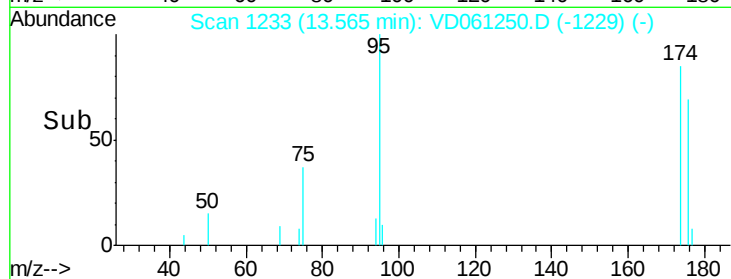
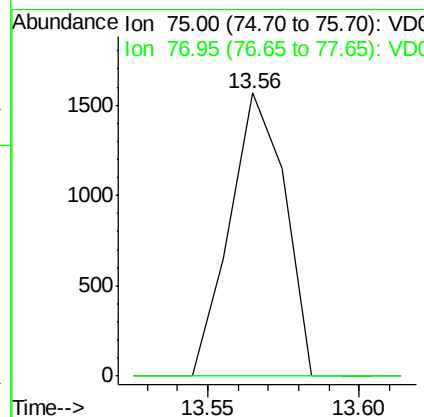
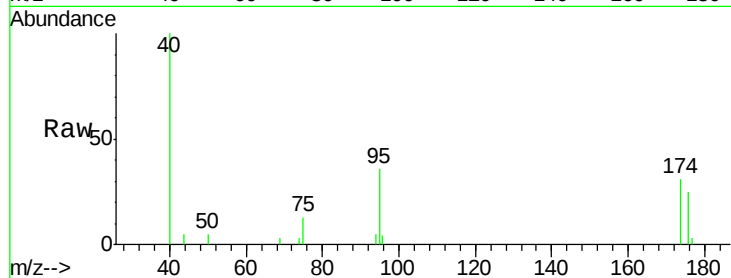




#76
 1,2,3-Trichloropropane
 Concen: 25.505 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. -0.16 min
 Lab File: VD061250.D
 Acq: 21 Mar 2019 17:45

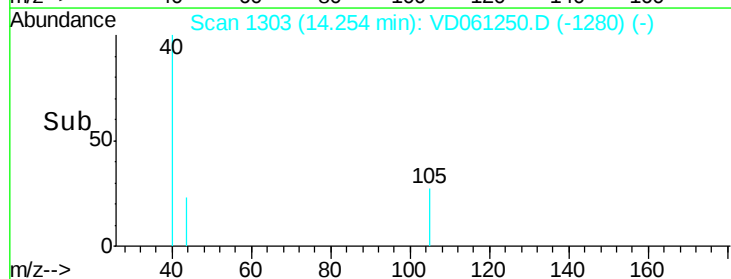
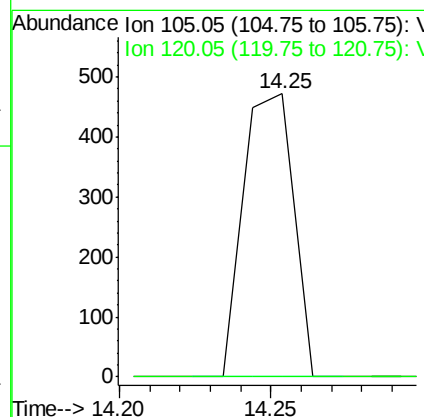
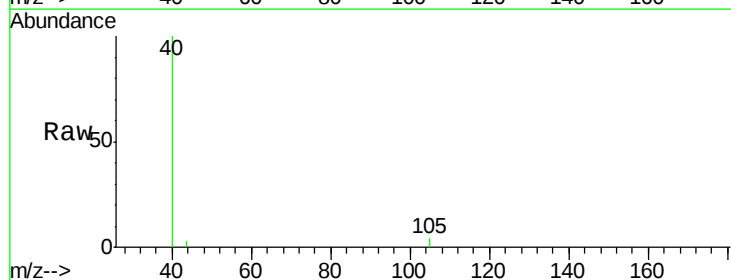
Instrument :
 MSVOA_D
 ClientSampleId :

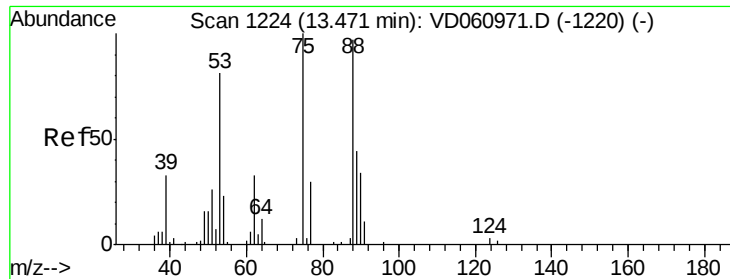
Tot Ion: 75 Resp: 1984
 Ion Ratio Lower Upper
 75 100
 77 0.0 16.6 49.7#



#80
 1,3,5-Trimethylbenzene
 Concen: 1.839 ug/l
 RT: 14.25 min Scan# 1303
 Delta R.T. 0.02 min
 Lab File: VD061250.D
 Acq: 21 Mar 2019 17:45

Tgt Ion:105 Resp: 544
 Ion Ratio Lower Upper
 105 100
 120 0.0 22.9 68.5#





#81

trans-1,4-Dichloro-2-butene

Concen: 86.509 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD061250.D

Acq: 21 Mar 2019 17:45

Instrument :

MSVOA_D

ClientSampleId :

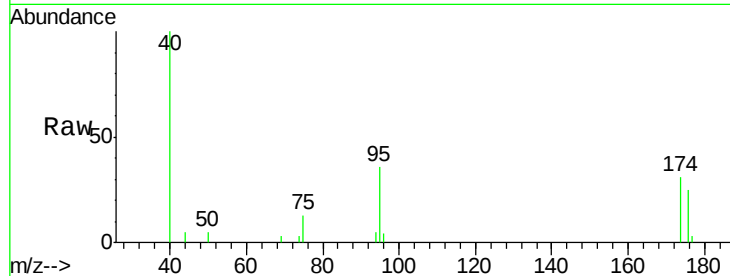
Tot Ion: 75 Resp: 1984

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

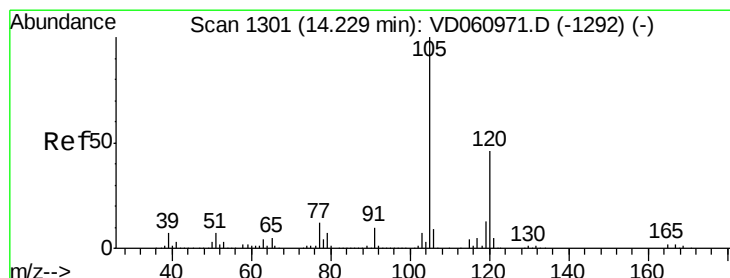
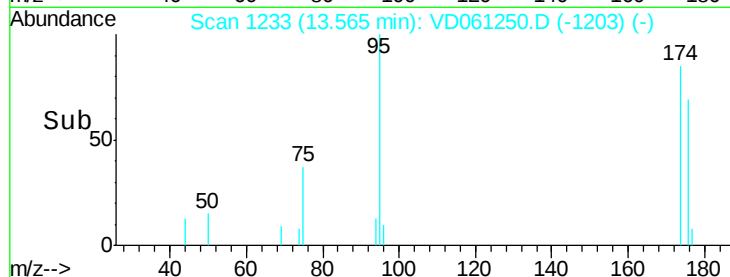
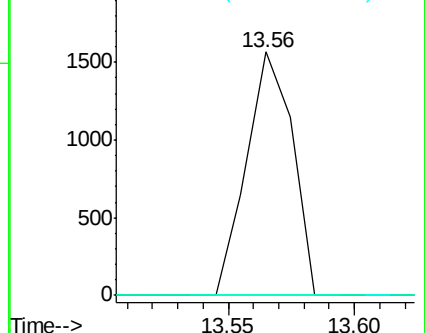
89 0.0 34.8 52.2#



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



#84

1,2,4-Trimethylbenzene

Concen: 1.839 ug/l

RT: 14.25 min Scan# 1303

Delta R.T. 0.02 min

Lab File: VD061250.D

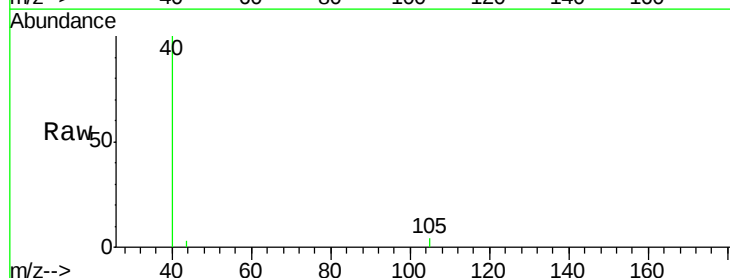
Acq: 21 Mar 2019 17:45

Tgt Ion: 105 Resp: 544

Ion Ratio Lower Upper

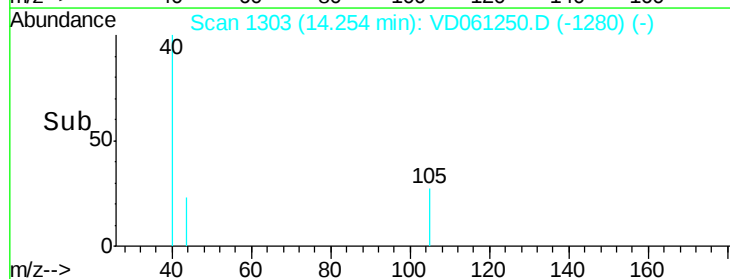
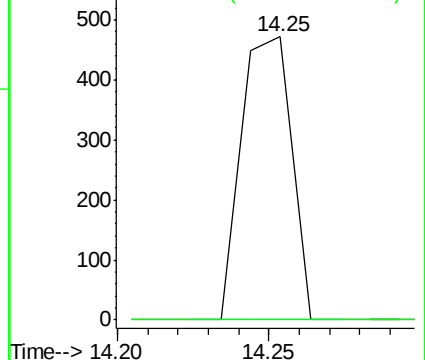
105 100

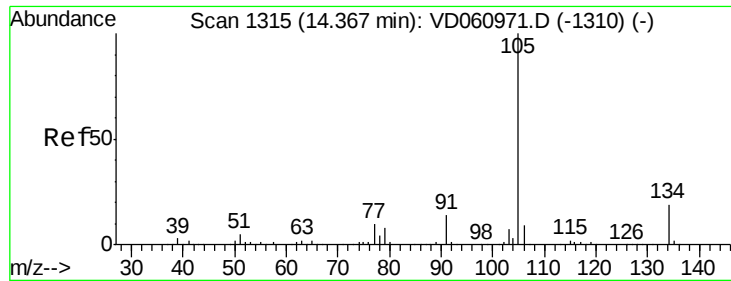
120 0.0 22.9 68.5#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 1.376 ug/l

RT: 14.25 min Scan# 1303

Delta R.T. -0.11 min

Lab File: VD061250.D

Acq: 21 Mar 2019 17:45

Instrument :

MSVOA_D

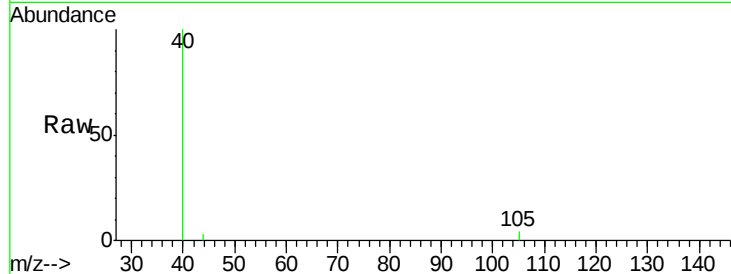
ClientSampled :

Tot Ion:105 Resp: 544

Ion Ratio Lower Upper

105 100

134 0.0 9.4 28.2#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

14.25

450

400

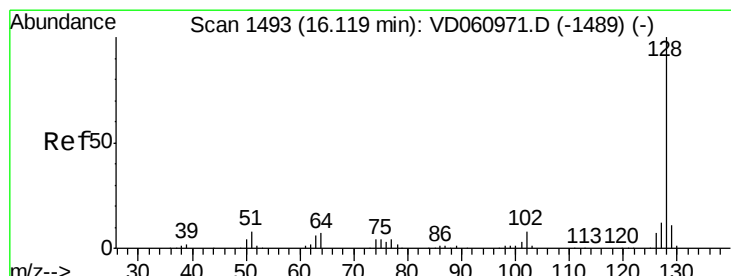
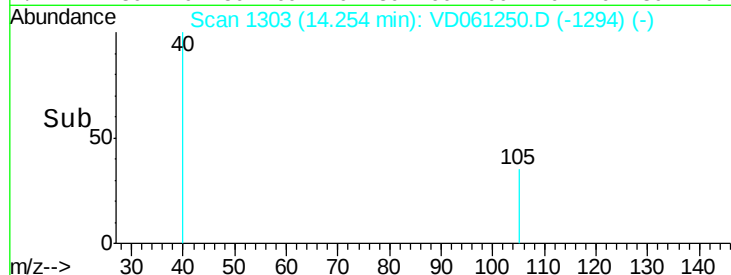
300

200

100

0

Time--> 14.20



#95

Naphthalene

Concen: 23.260 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VD061250.D

Acq: 21 Mar 2019 17:45

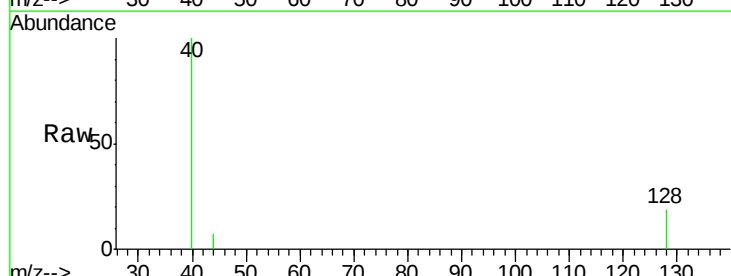
Tgt Ion:128 Resp: 2428

Ion Ratio Lower Upper

128 100

127 0.0 9.8 14.8#

129 0.0 8.5 12.7#



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

16.13

3000

2500

2000

1500

1000

500

0

Time--> 16.10

