

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031819\
 Data File : VD061169.D
 Acq On : 19 Mar 2019 4:06
 Operator : VA/AP
 Sample : K1928-02RE
 Misc : 6.77g/5ml/MSVOA D/SOIL
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 19 04:53:05 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	620822	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1139497	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.35	117	887107	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	387734	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	284326	55.02	ug/l	0.00
Spiked Amount			Recovery	=	110.04%	
35) Dibromofluoromethane	6.92	113	472301	55.85	ug/l	0.00
Spiked Amount			Recovery	=	111.70%	
50) Toluene-d8	10.39	98	1095647	51.59	ug/l	0.00
Spiked Amount			Recovery	=	103.18%	
62) 4-Bromofluorobenzene	13.55	95	389549	47.28	ug/l	0.00
Spiked Amount			Recovery	=	94.56%	

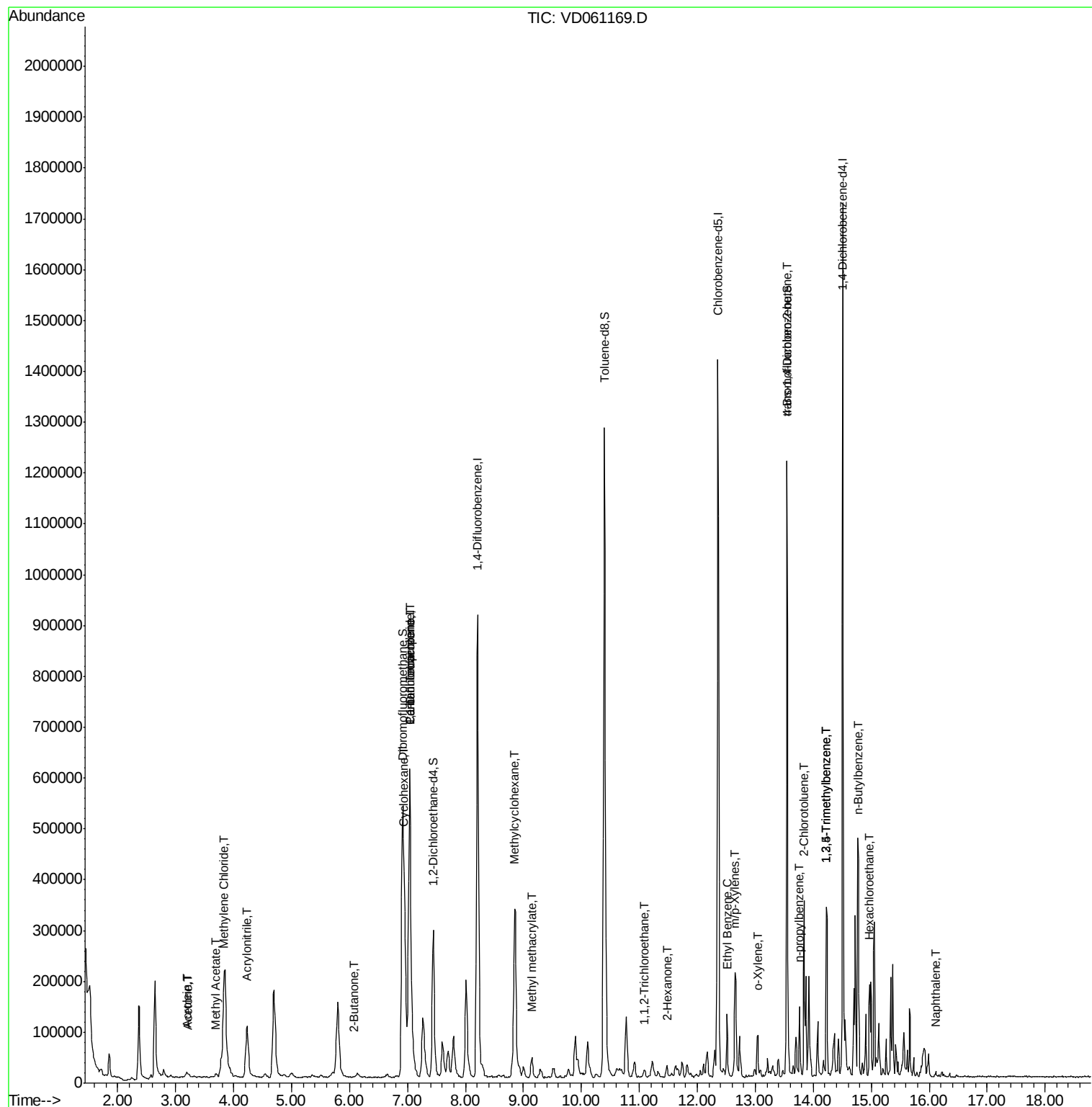
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.19	94	188	Below Cal	#	8
13) Acrolein	3.18	56	1770	3.718	ug/l #	81
15) Acrylonitrile	4.23	53	3036	2.611	ug/l #	24
16) Acetone	3.22	43	14168	9.588	ug/l	94
18) Methyl Acetate	3.68	43	3830	1.317	ug/l #	59
20) Methylene Chloride	3.82	84	41464	1.643	ug/l	92
25) 2-Butanone	6.06	43	2043	1.218	ug/l #	55
31) Cyclohexane	6.95	56	136549	14.933	ug/l	97
36) 1,1-Dichloropropene	7.04	75	45217	4.603	ug/l #	46
38) Carbon Tetrachloride	7.04	117	58539	5.410	ug/l #	15
39) Methylcyclohexane	8.86	83	193421	18.991	ug/l	97
48) Methyl methacrylate	9.14	41	14155	3.938	ug/l #	75
55) 1,1,2-Trichloroethane	11.08	97	8740	1.720	ug/l #	15
59) 2-Hexanone	11.47	43	14993	5.241	ug/l #	25
67) Ethyl Benzene	12.51	91	85195	3.291	ug/l	94
68) m/p-Xylenes	12.65	106	71906	7.076	ug/l	95
69) o-Xylene	13.04	106	22325	2.235	ug/l	93
78) n-propylbenzene	13.76	91	98806	3.020	ug/l	97
79) 2-Chlorotoluene	13.84	91	30633	1.701	ug/l #	38
80) 1,3,5-Trimethylbenzene	14.22	105	175158	8.257	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.55	75	141089	85.790	ug/l #	17
84) 1,2,4-Trimethylbenzene	14.22	105	175158	8.257	ug/l	97
89) n-Butylbenzene	14.79	91	74915	3.367	ug/l #	79
90) Hexachloroethane	14.97	117	7629	1.166	ug/l #	13
95) Naphthalene	16.11	128	7568	1.011	ug/l #	95

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

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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# 570

Delta R.T. -0.00 min

Lab File: VD061169.D

Acq: 19 Mar 2019 4:06

Instrument :

MSVOA_D

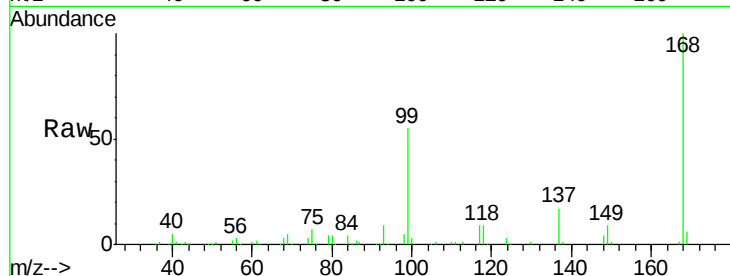
ClientSampleId :

Tot Ion:168 Resp: 620822

Ion Ratio Lower Upper

168 100

99 54.9 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

250000

200000

150000

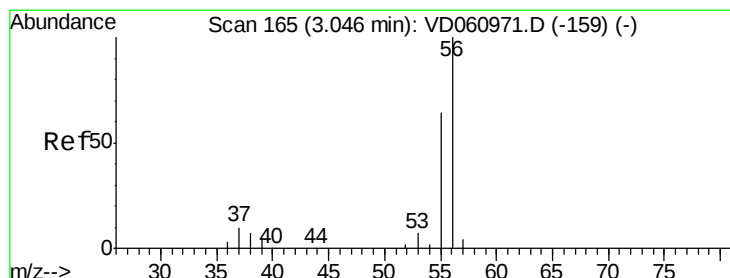
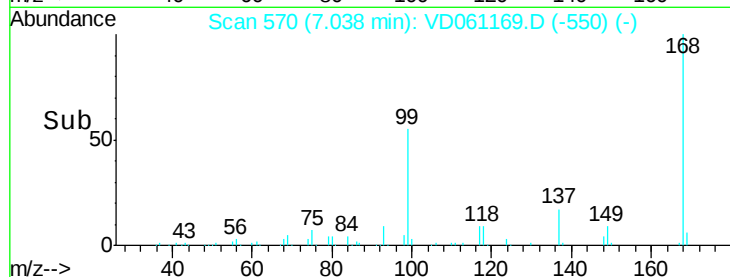
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#13

Acrolein

Concen: 3.718 ug/l

RT: 3.18 min Scan# 178

Delta R.T. 0.13 min

Lab File: VD061169.D

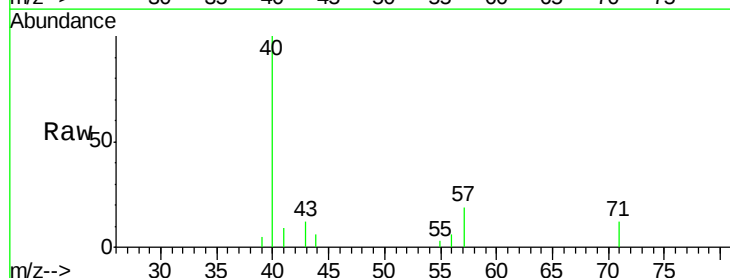
Acq: 19 Mar 2019 4:06

Tgt Ion: 56 Resp: 1770

Ion Ratio Lower Upper

56 100

55 49.4 51.3 76.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.18

800

600

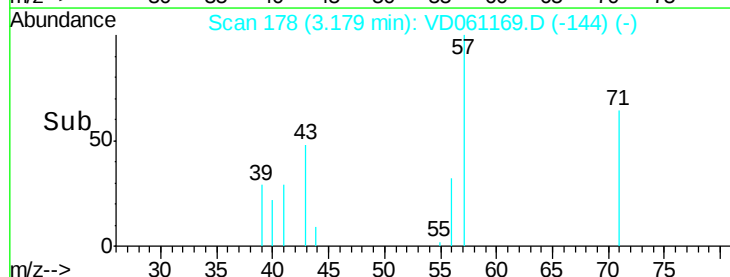
400

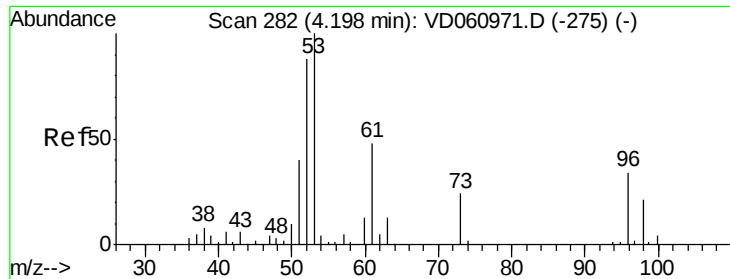
200

0

3.15 3.20

Time-->





#15

Acrylonitrile

Concen: 2.611 ug/l

RT: 4.23 min Scan# 285

Delta R.T. 0.03 min

Lab File: VD061169.D

Acq: 19 Mar 2019 4:06

Instrument :

MSVOA_D

ClientSampleId :

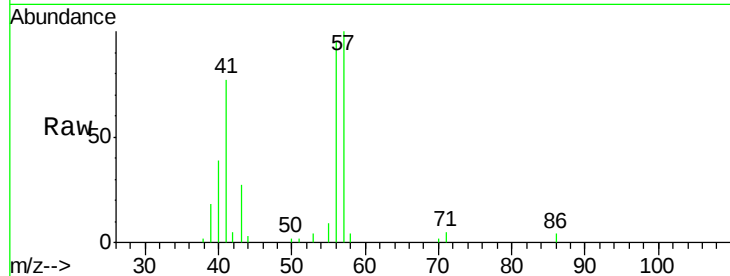
Tot Ion: 53 Resp: 3036

Ion Ratio Lower Upper

53 100

52 0.0 70.2 105.4#

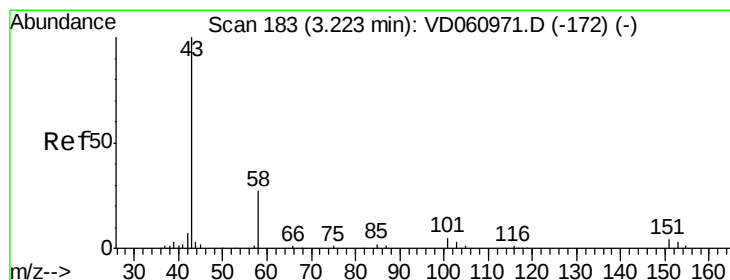
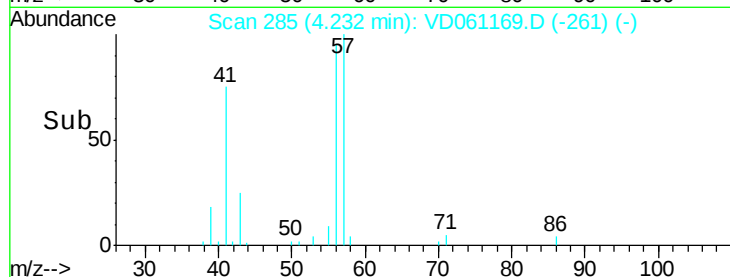
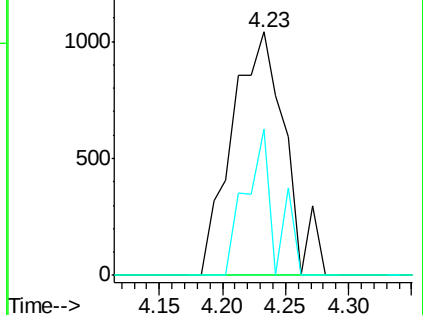
51 60.2 31.7 47.5#



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 9.588 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.00 min

Lab File: VD061169.D

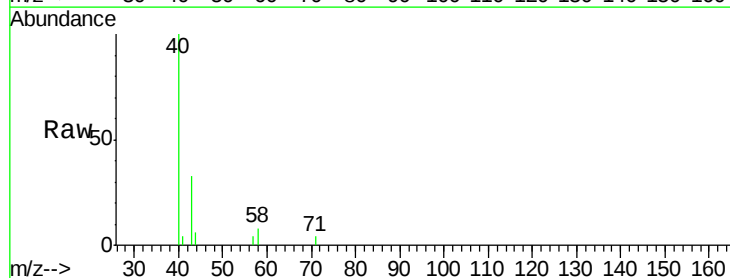
Acq: 19 Mar 2019 4:06

Tgt Ion: 43 Resp: 14168

Ion Ratio Lower Upper

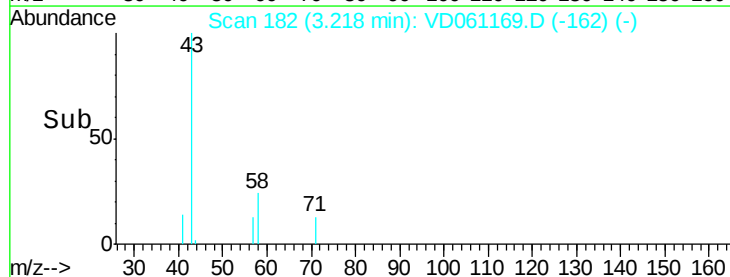
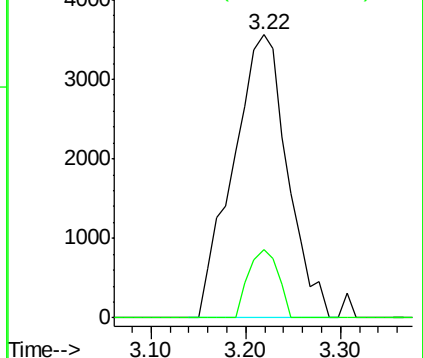
43 100

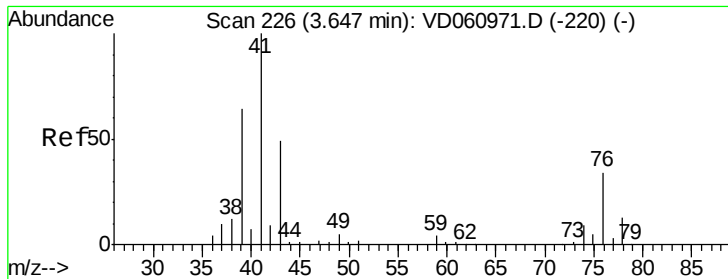
58 24.1 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

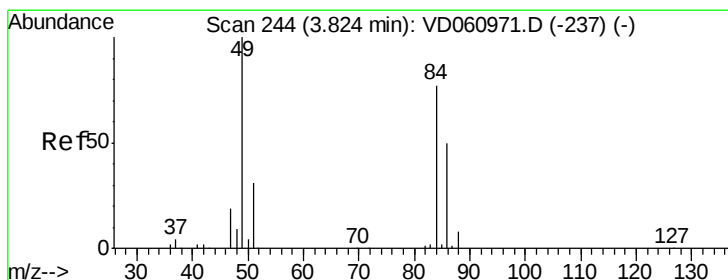
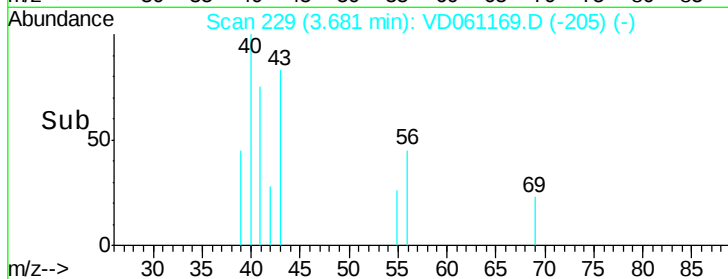
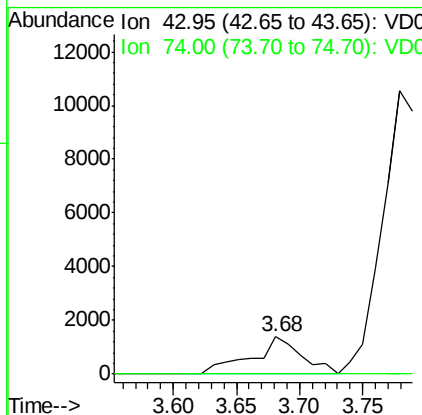
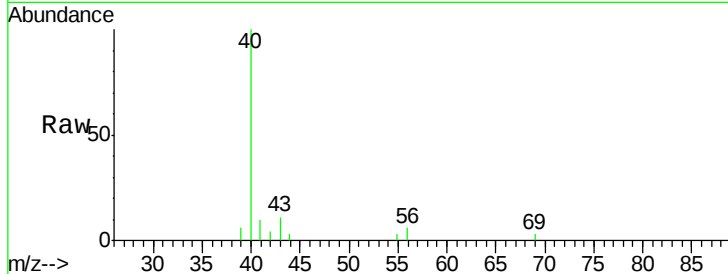




#18
Methyl Acetate
Concen: 1.317 ug/l
RT: 3.68 min Scan# 229
Delta R.T. 0.03 min
Lab File: VD061169.D
Acq: 19 Mar 2019 4:06

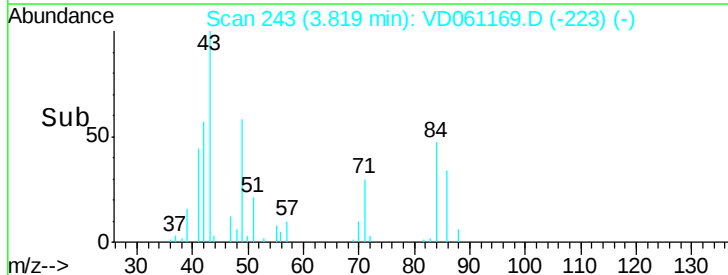
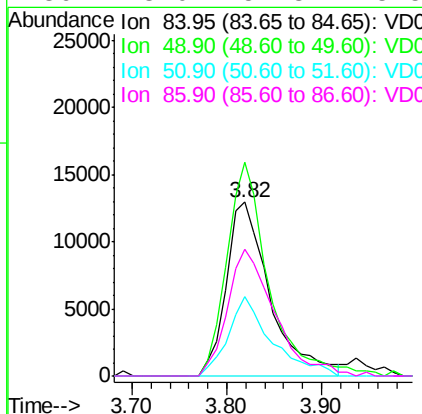
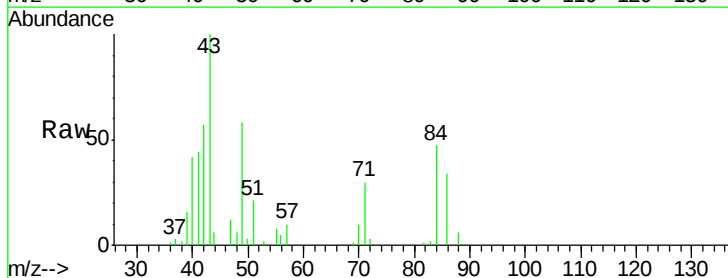
Instrument :
MSVOA_D
ClientSampled :

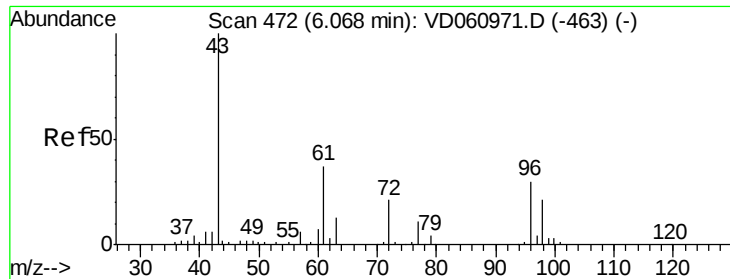
Tot Ion: 43 Resp: 3830
Ion Ratio Lower Upper
43 100
74 0.0 14.6 21.8#



#20
Methylene Chloride
Concen: 1.643 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.00 min
Lab File: VD061169.D
Acq: 19 Mar 2019 4:06

Tgt Ion: 84 Resp: 41464
Ion Ratio Lower Upper
84 100
49 122.9 104.2 156.2
51 45.4 32.3 48.5
86 73.0 52.3 78.5





#25

2-Butanone

Concen: 1.218 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.00 min

Lab File: VD061169.D

Acq: 19 Mar 2019 4:06

Instrument :

MSVOA_D

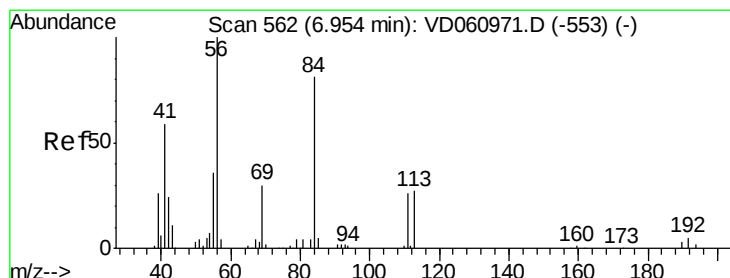
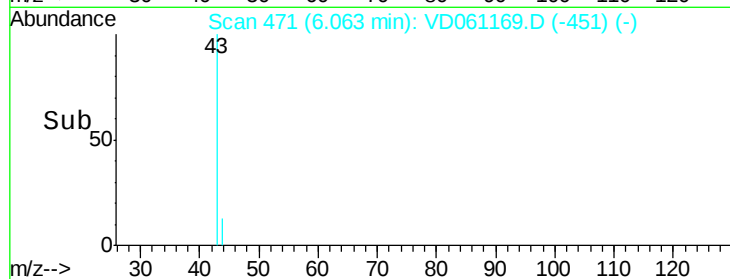
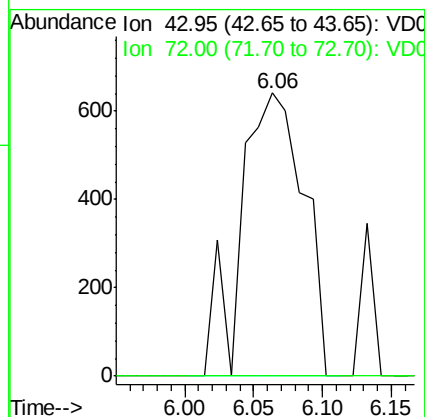
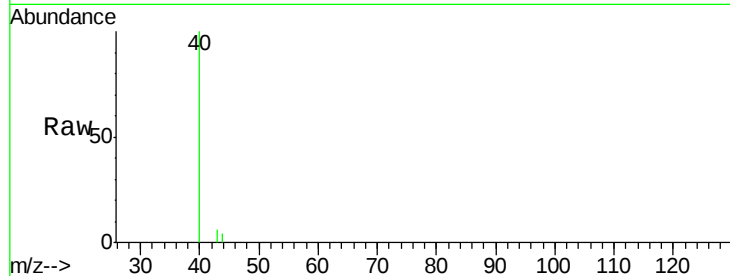
ClientSampleId :

Tot Ion: 43 Resp: 2043

Ion Ratio Lower Upper

43 100

72 0.0 16.7 25.1#



#31

Cyclohexane

Concen: 14.933 ug/l

RT: 6.95 min Scan# 561

Delta R.T. -0.00 min

Lab File: VD061169.D

Acq: 19 Mar 2019 4:06

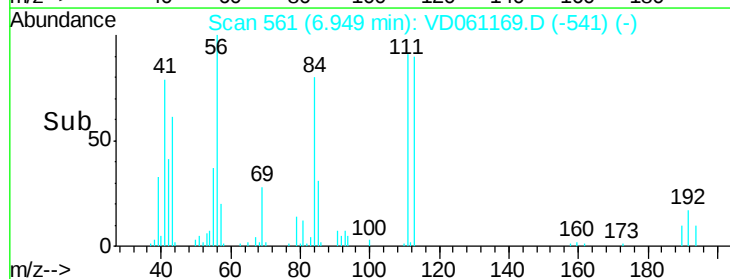
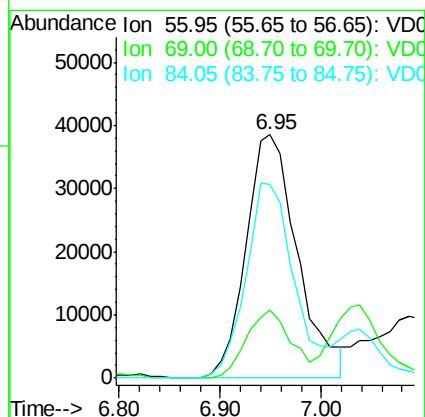
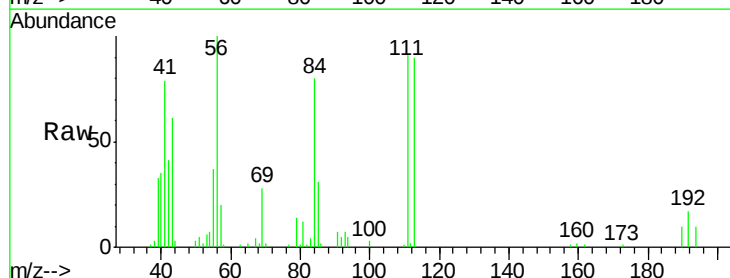
Tgt Ion: 56 Resp: 136549

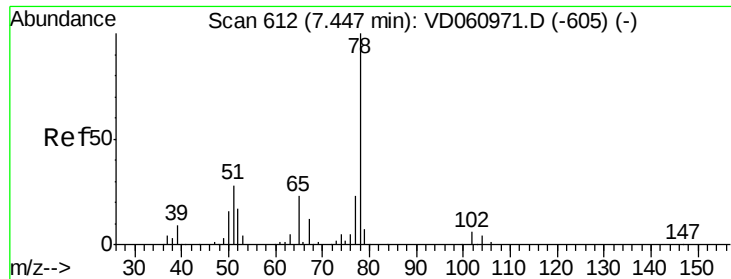
Ion Ratio Lower Upper

56 100

69 28.1 24.0 36.0

84 79.6 65.8 98.6





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.00 min

Lab File: VD061169.D

Acq: 19 Mar 2019 4:06

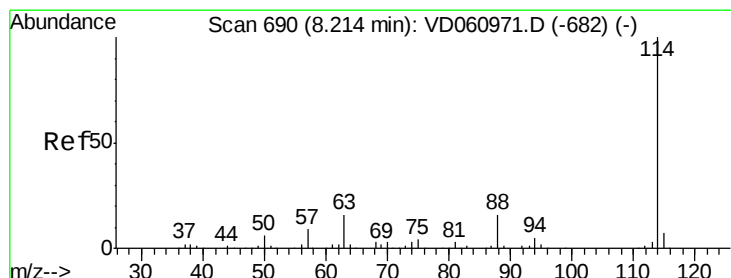
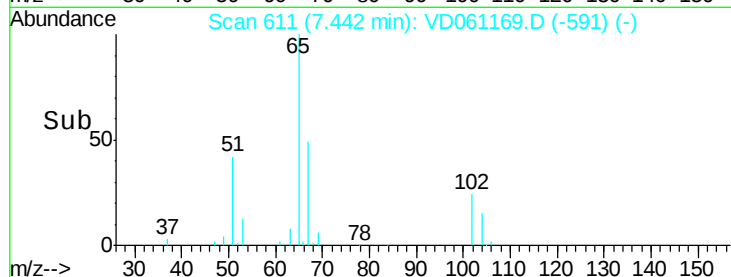
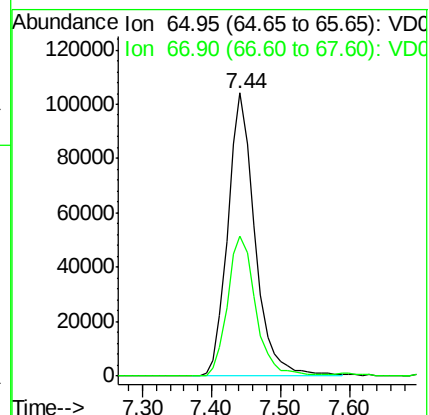
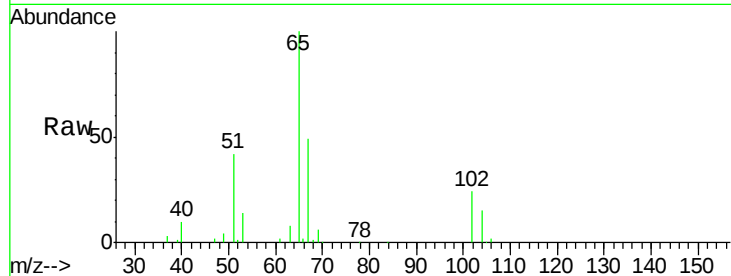
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 65 Resp: 284326

Ion Ratio Lower Upper

65 100

67 49.2 0.0 105.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. -0.00 min

Lab File: VD061169.D

Acq: 19 Mar 2019 4:06

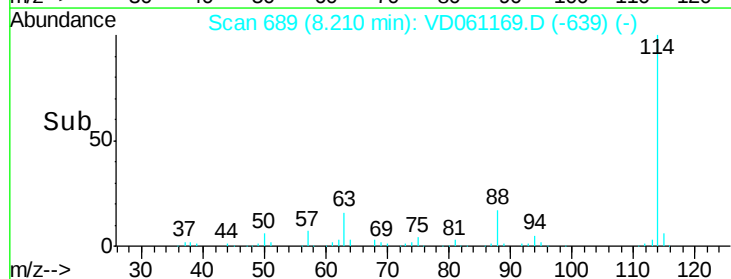
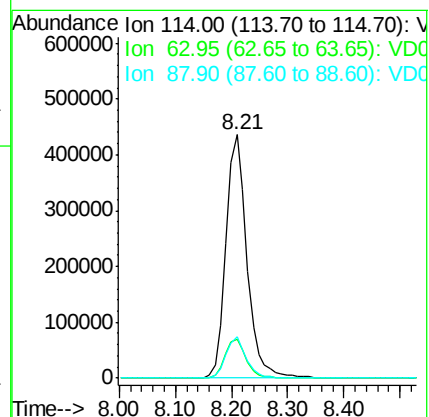
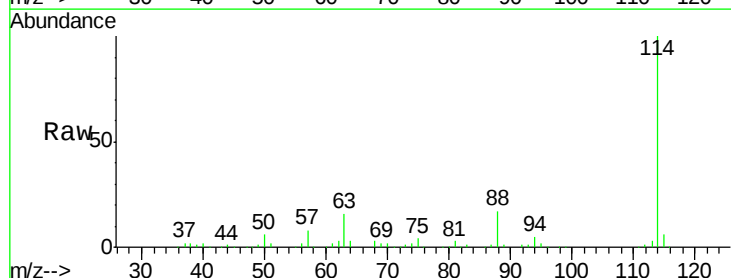
Tgt Ion: 114 Resp: 1139497

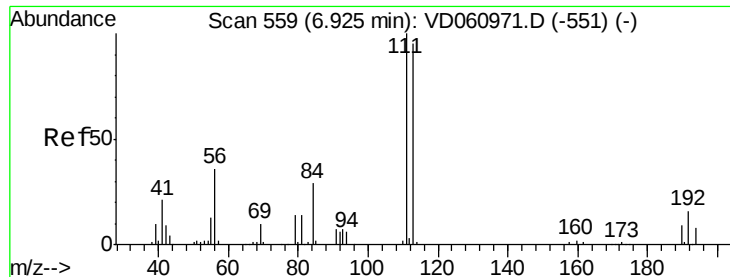
Ion Ratio Lower Upper

114 100

63 15.7 0.0 31.4

88 17.1 0.0 33.0

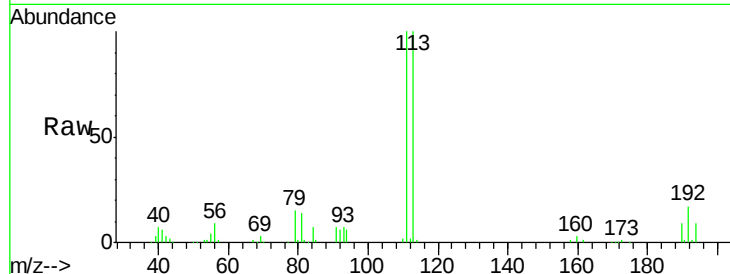




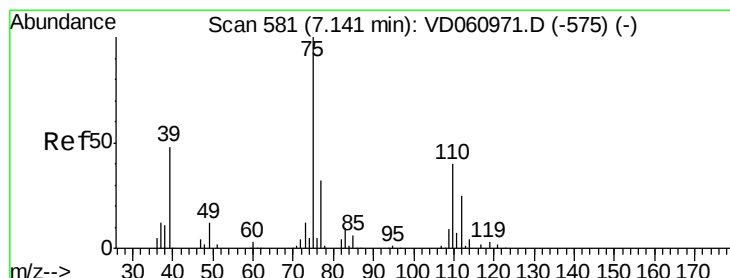
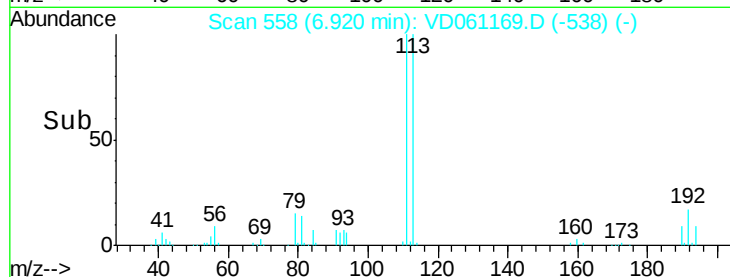
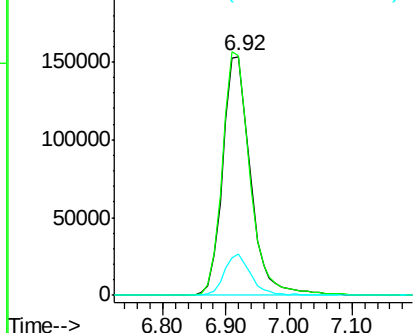
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. -0.00 min
 Lab File: VD061169.D
 Acq: 19 Mar 2019 4:06

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:113 Resp: 472301
 Ion Ratio Lower Upper
 113 100
 111 100.2 84.2 126.4
 192 17.3 13.1 19.7

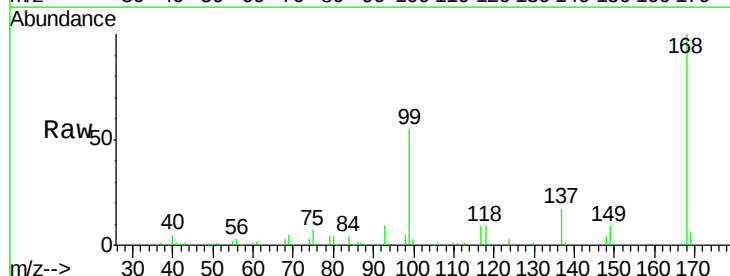


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

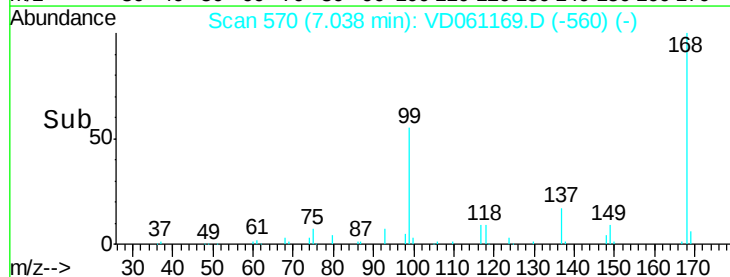
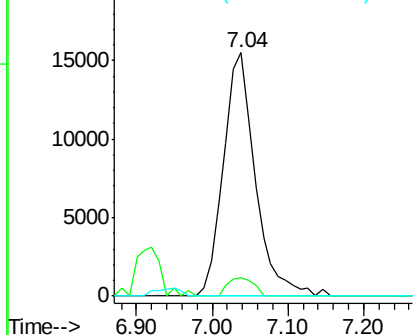


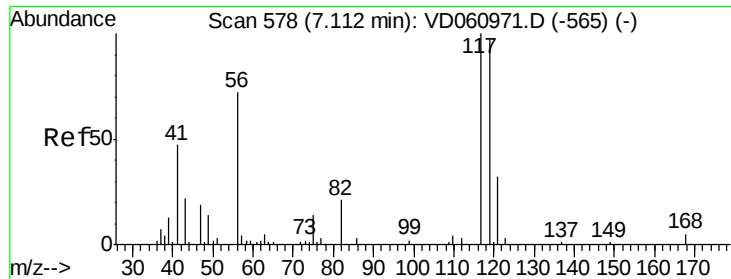
#36
 1,1-Dichloropropene
 Concen: 4.603 ug/l
 RT: 7.04 min Scan# 570
 Delta R.T. -0.10 min
 Lab File: VD061169.D
 Acq: 19 Mar 2019 4:06

Tgt Ion: 75 Resp: 45217
 Ion Ratio Lower Upper
 75 100
 110 7.3 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): V
 Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 5.410 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.07 min

Lab File: VD061169.D

Acq: 19 Mar 2019 4:06

Instrument :

MSVOA_D

ClientSampled :

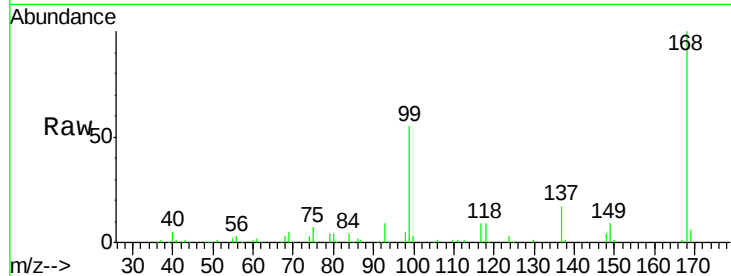
Tot Ion:117 Resp: 58539

Ion Ratio Lower Upper

117 100

119 4.3 77.8 116.8#

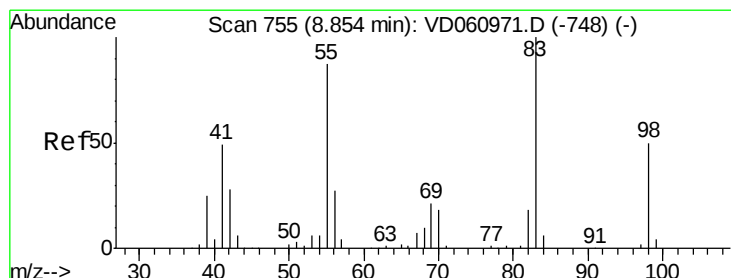
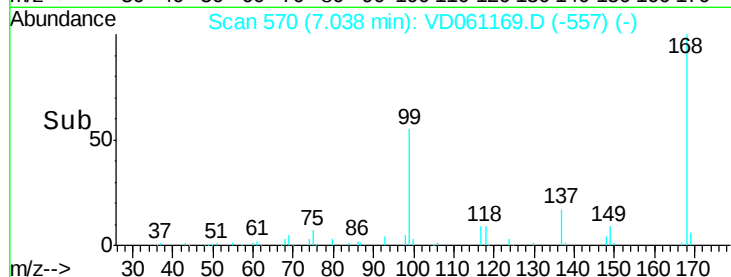
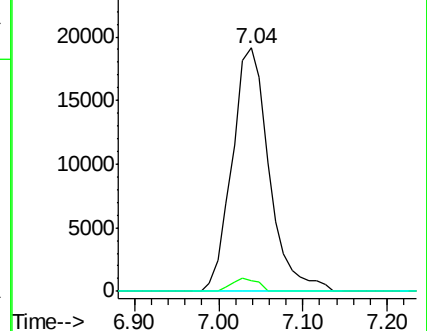
121 0.0 25.3 37.9#



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



#39

Methylcyclohexane

Concen: 18.991 ug/l

RT: 8.86 min Scan# 755

Delta R.T. 0.01 min

Lab File: VD061169.D

Acq: 19 Mar 2019 4:06

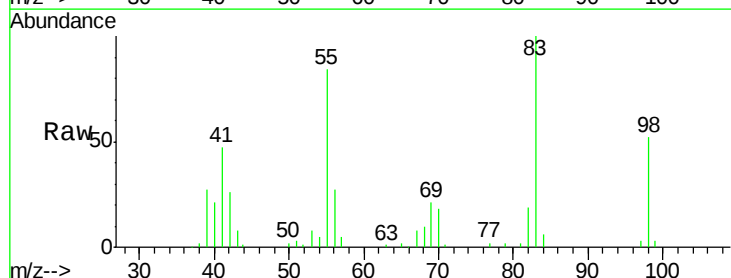
Tgt Ion: 83 Resp: 193421

Ion Ratio Lower Upper

83 100

55 84.4 69.6 104.4

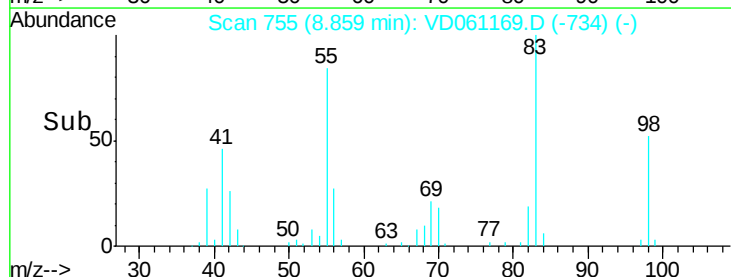
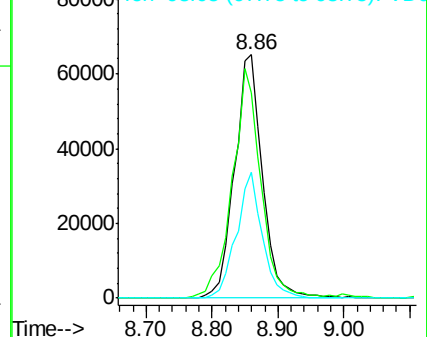
98 51.6 40.0 60.0

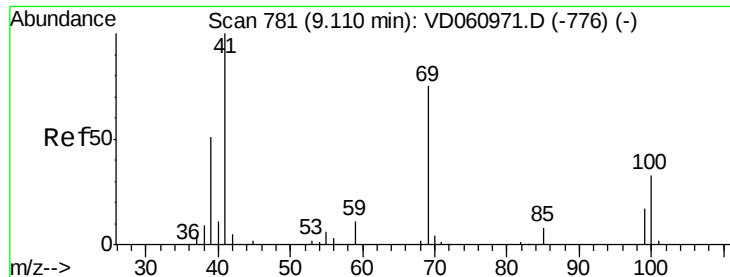


Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC





#48

Methyl methacrylate

Concen: 3.938 ug/l

RT: 9.14 min Scan# 784

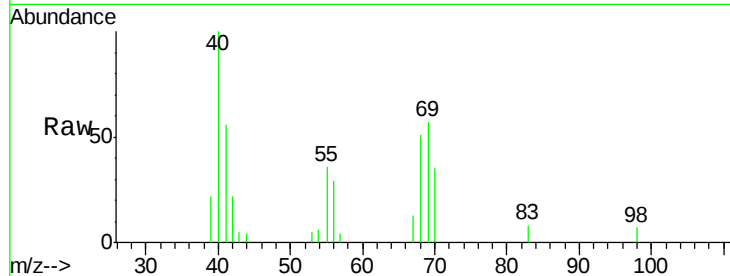
Delta R.T. 0.03 min

Lab File: VD061169.D

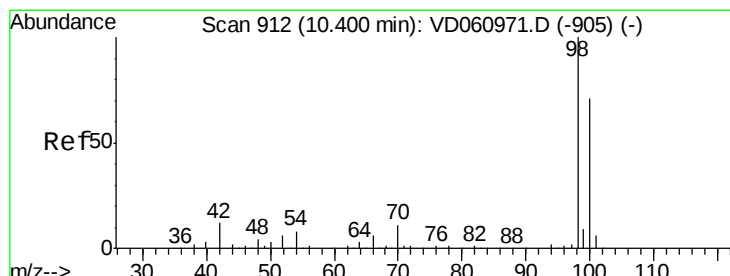
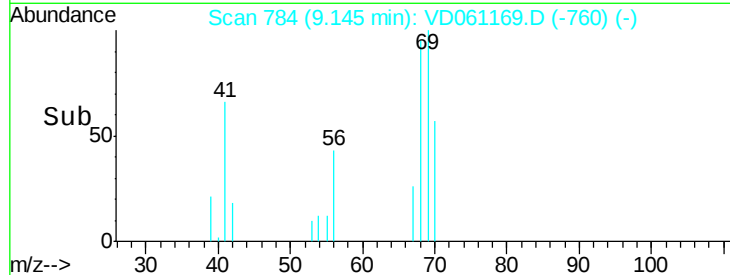
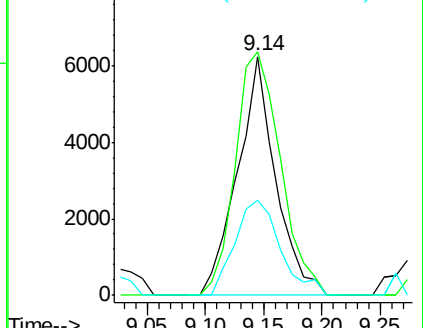
Acq: 19 Mar 2019 4:06

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 41 Resp: 14155
Ion Ratio Lower Upper
41 100
69 101.8 59.9 89.9#
39 39.9 40.9 61.3#



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC



#50

Toluene-d8

Concen: N.D. ug/l

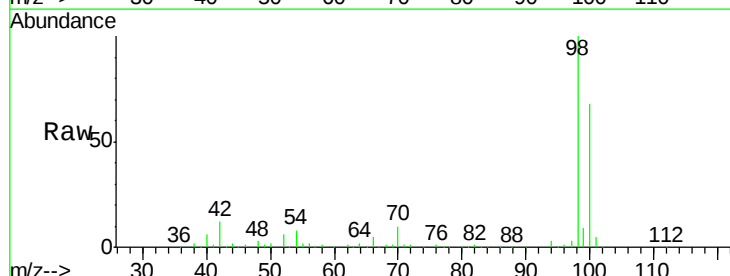
RT: 10.39 min Scan# 911

Delta R.T. -0.00 min

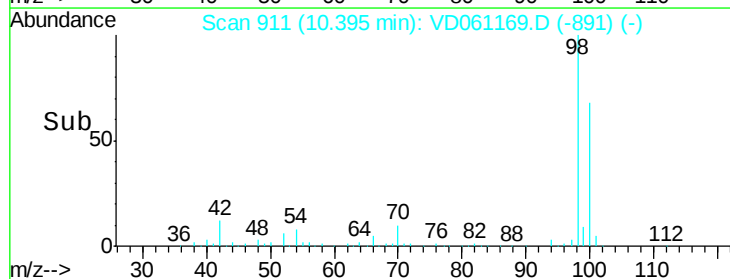
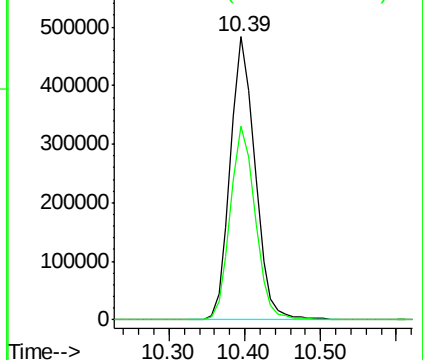
Lab File: VD061169.D

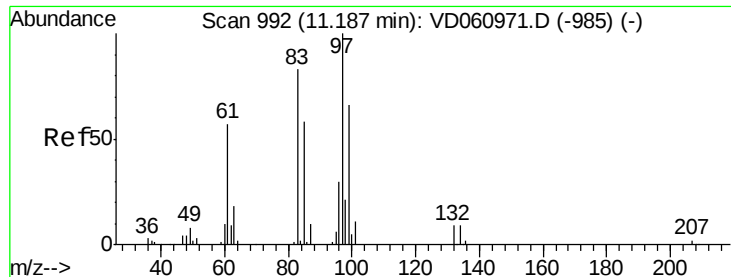
Acq: 19 Mar 2019 4:06

Tgt Ion: 98 Resp: 1095647
Ion Ratio Lower Upper
98 100
100 68.3 57.4 86.2



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





#55

1,1,2-Trichloroethane

Concen: 1.720 ug/l

RT: 11.08 min Scan# 981

Delta R.T. -0.10 min

Lab File: VD061169.D

Acq: 19 Mar 2019 4:06

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 97 Resp: 8740

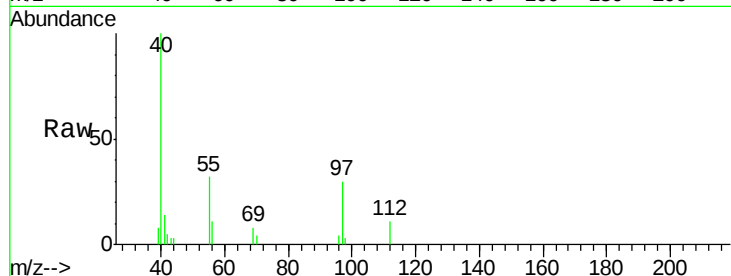
Ion Ratio Lower Upper

97 100

83 0.0 66.6 100.0#

85 0.0 46.4 69.6#

99 0.0 52.4 78.6#

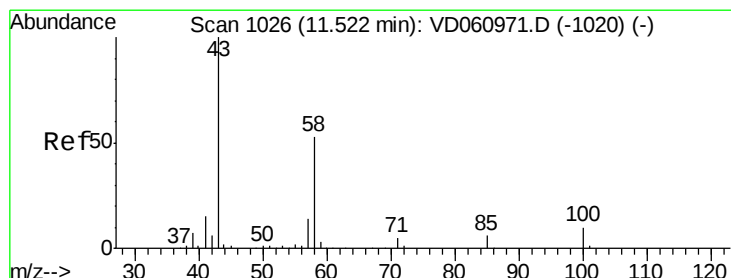
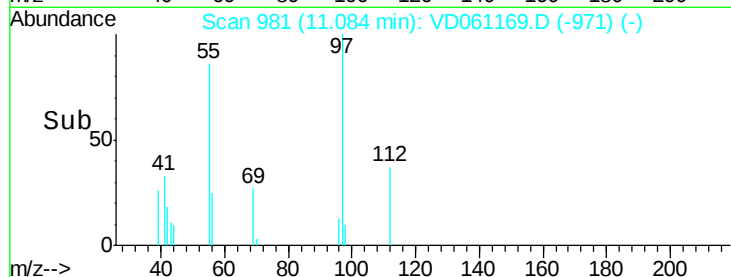
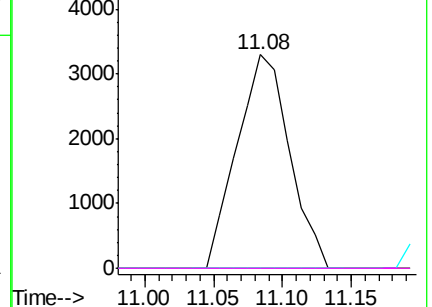


Abundance Ion 96.85 (96.55 to 97.55): VDC

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



#59

2-Hexanone

Concen: 5.241 ug/l

RT: 11.47 min Scan# 1020

Delta R.T. -0.05 min

Lab File: VD061169.D

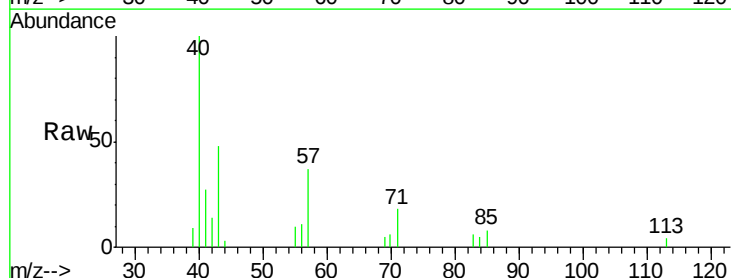
Acq: 19 Mar 2019 4:06

Tgt Ion: 43 Resp: 14993

Ion Ratio Lower Upper

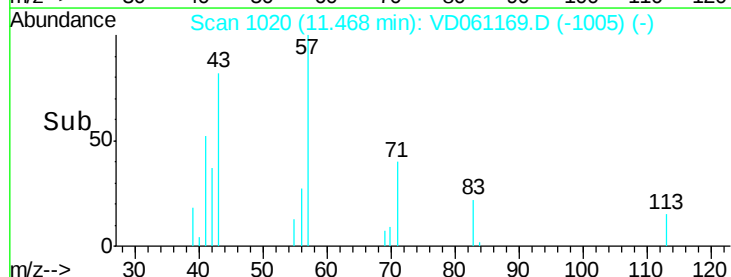
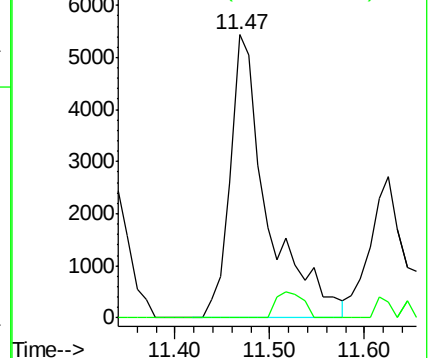
43 100

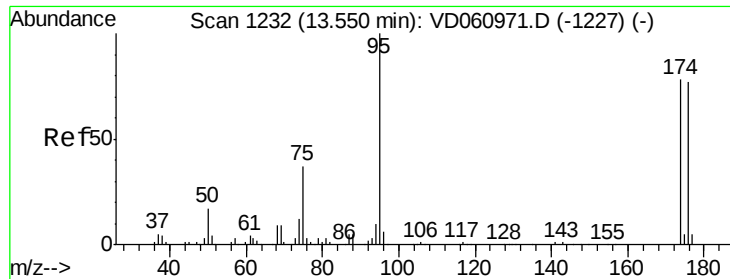
58 0.0 26.5 79.5#



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: 13.55 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VD061169.D

Acq: 19 Mar 2019 4:06

Instrument :

MSVOA_D

ClientSampleId :

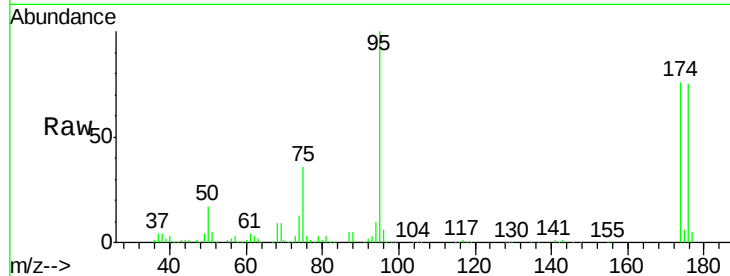
Tot Ion: 95 Resp: 389549

Ion Ratio Lower Upper

95 100

174 75.9 0.0 155.6

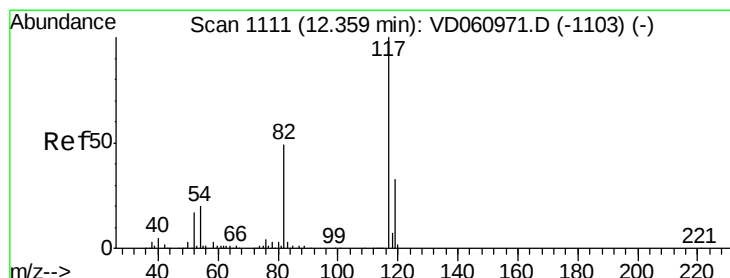
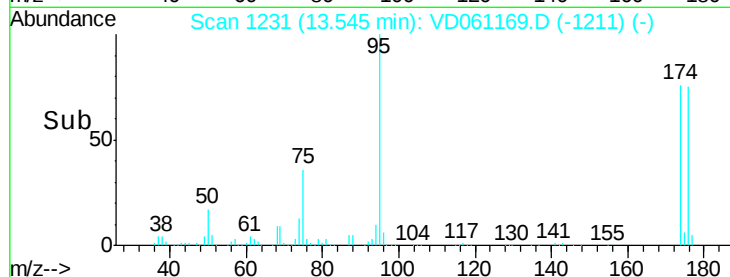
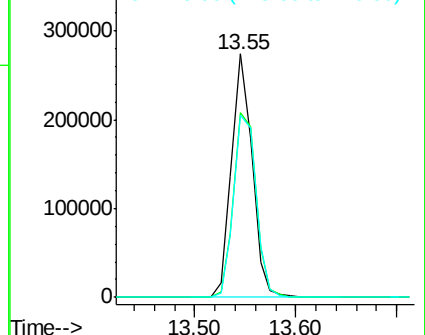
176 74.9 0.0 153.8



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: 12.35 min Scan# 1110

Delta R.T. -0.00 min

Lab File: VD061169.D

Acq: 19 Mar 2019 4:06

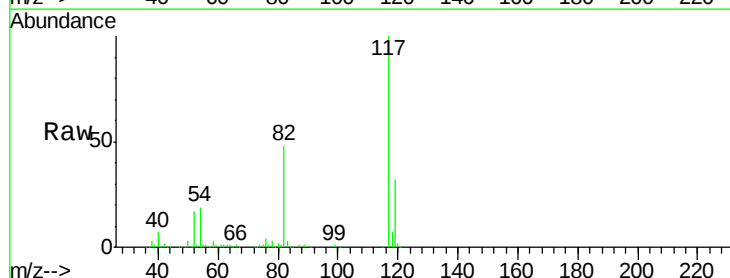
Tgt Ion: 117 Resp: 887107

Ion Ratio Lower Upper

117 100

82 47.9 38.9 58.3

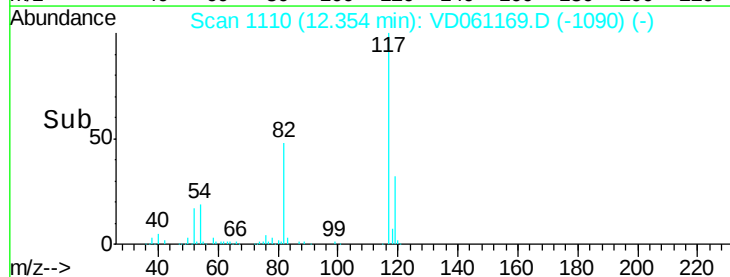
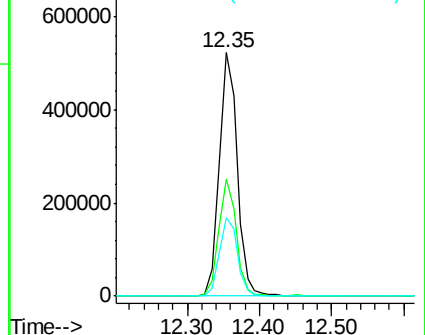
119 32.2 26.6 39.8

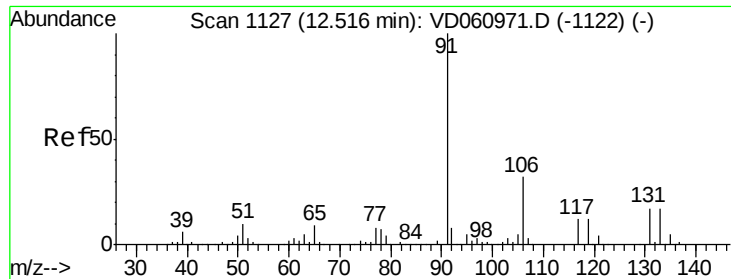


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

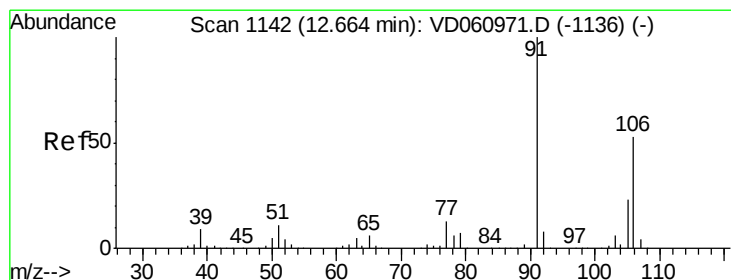
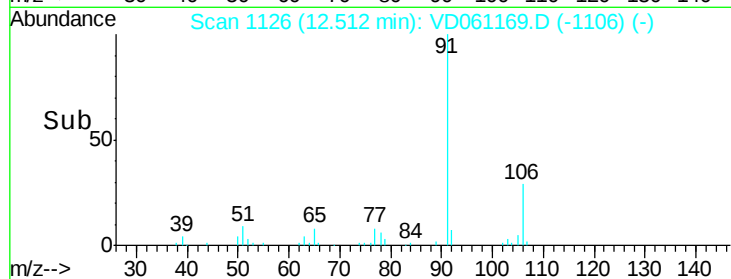
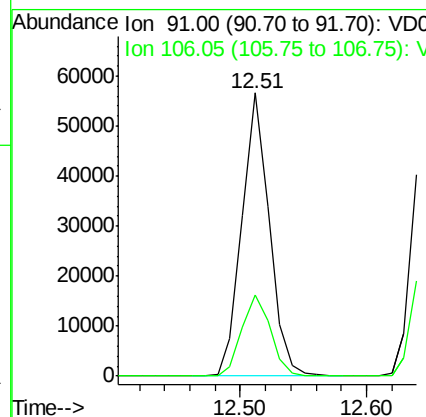
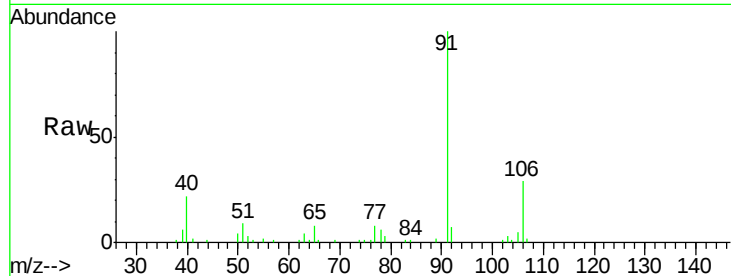




#67
Ethyl Benzene
Concen: 3.291 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.00 min
Lab File: VD061169.D
Acq: 19 Mar 2019 4:06

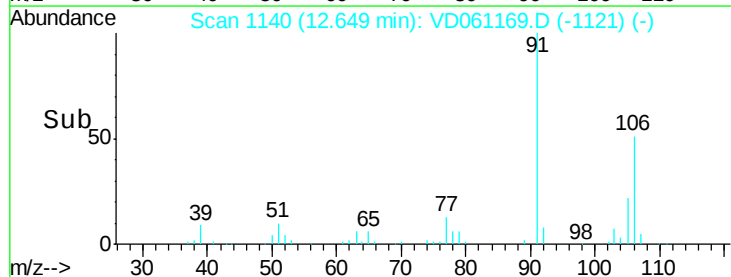
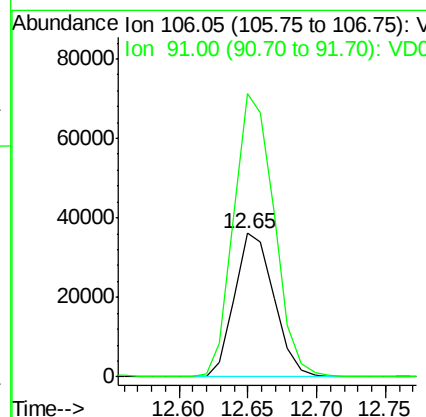
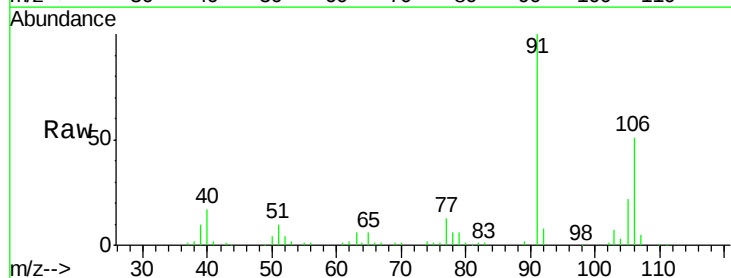
Instrument :
MSVOA_D
ClientSampled :

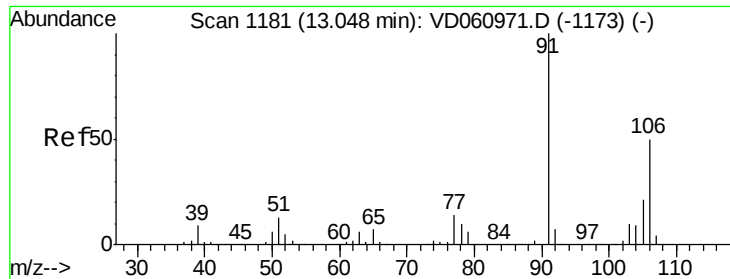
Tot Ion: 91 Resp: 85195
Ion Ratio Lower Upper
91 100
106 28.8 25.7 38.5



#68
m/p-Xylenes
Concen: 7.076 ug/l
RT: 12.65 min Scan# 1140
Delta R.T. -0.01 min
Lab File: VD061169.D
Acq: 19 Mar 2019 4:06

Tgt Ion: 106 Resp: 71906
Ion Ratio Lower Upper
106 100
91 197.6 152.0 228.0

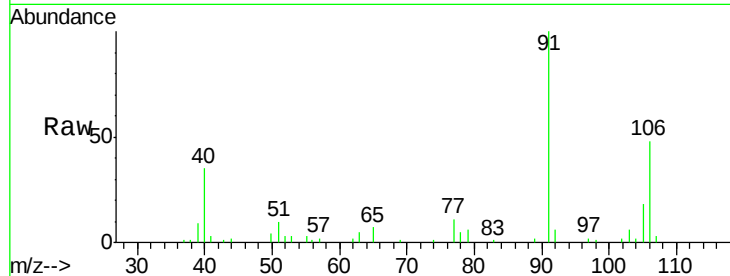




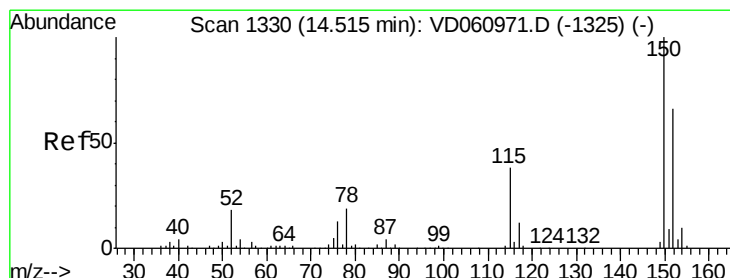
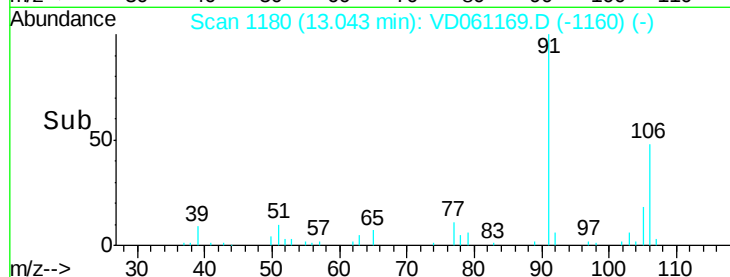
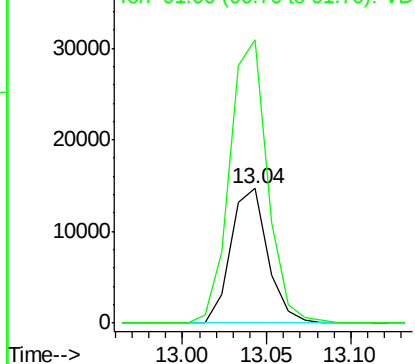
#69
o-Xylene
Concen: 2.235 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. -0.00 min
Lab File: VD061169.D
Acq: 19 Mar 2019 4:06

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:106 Resp: 22325
Ion Ratio Lower Upper
106 100
91 210.0 99.8 299.3

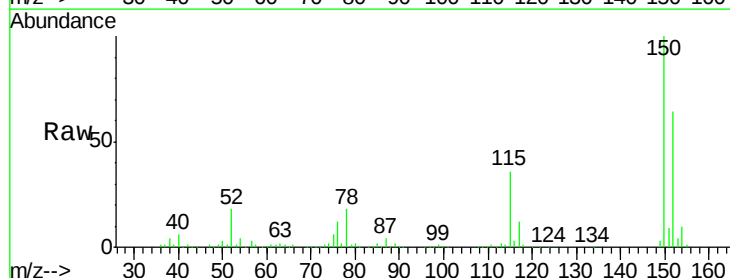


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

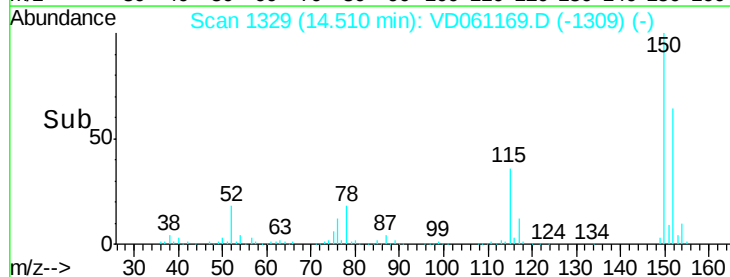
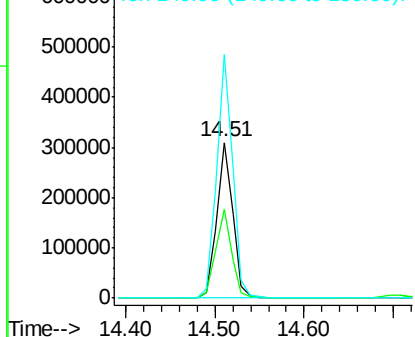


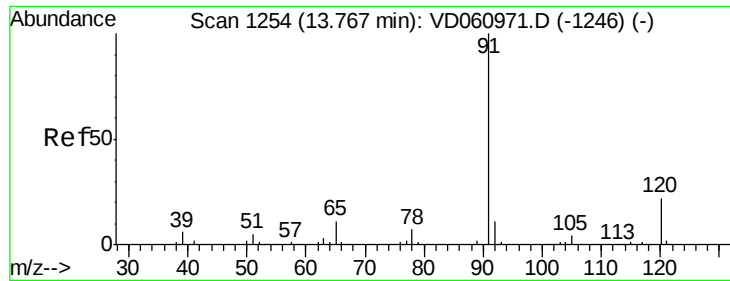
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.00 min
Lab File: VD061169.D
Acq: 19 Mar 2019 4:06

Tgt Ion:152 Resp: 387734
Ion Ratio Lower Upper
152 100
115 56.9 28.6 85.9
150 156.5 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





#78

n-propylbenzene

Concen: 3.020 ug/l

RT: 13.76 min Scan# 1253

Delta R.T. -0.00 min

Lab File: VD061169.D

Acq: 19 Mar 2019 4:06

Instrument :

MSVOA_D

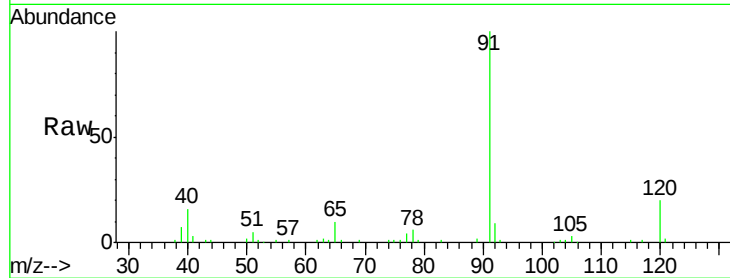
ClientSampled :

Tot Ion: 91 Resp: 98806

Ion Ratio Lower Upper

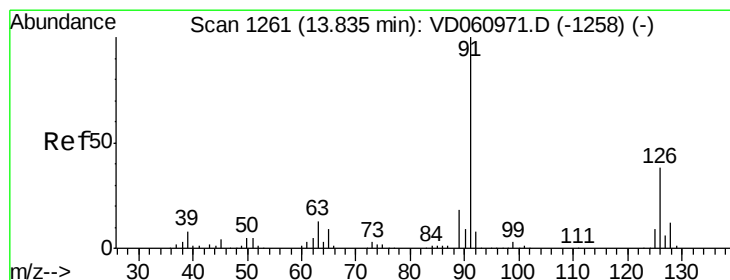
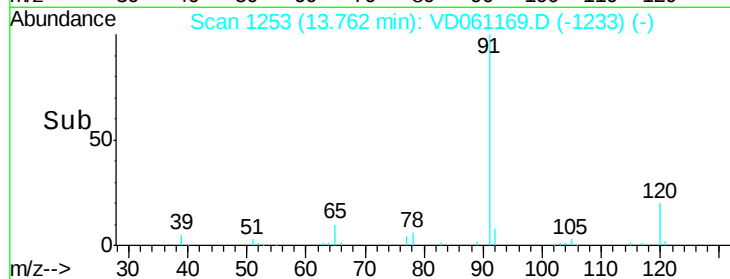
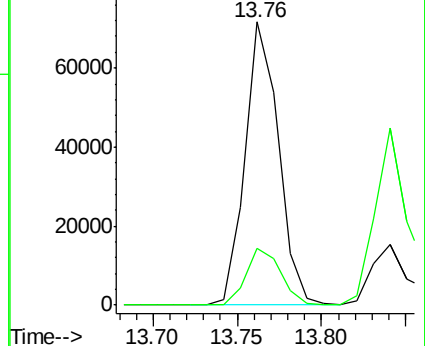
91 100

120 20.3 10.8 32.3



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): VDC



#79

2-Chlorotoluene

Concen: 1.701 ug/l

RT: 13.84 min Scan# 1261

Delta R.T. 0.01 min

Lab File: VD061169.D

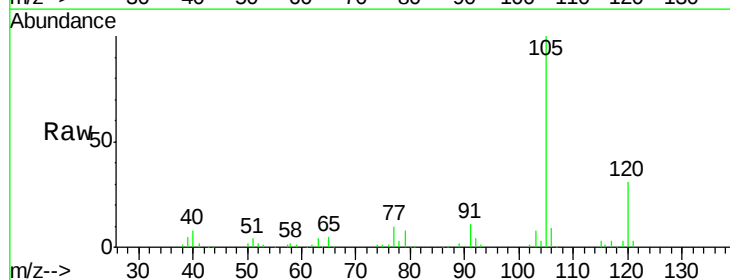
Acq: 19 Mar 2019 4:06

Tgt Ion: 91 Resp: 30633

Ion Ratio Lower Upper

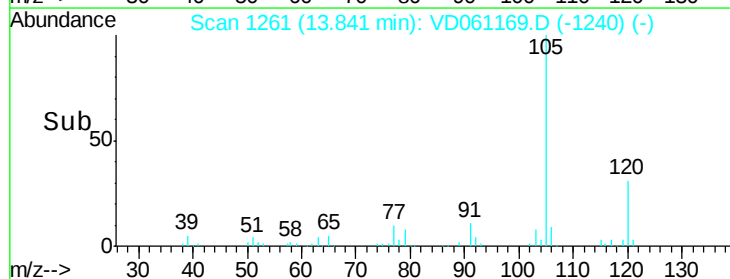
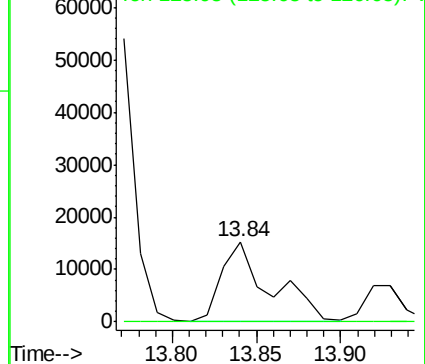
91 100

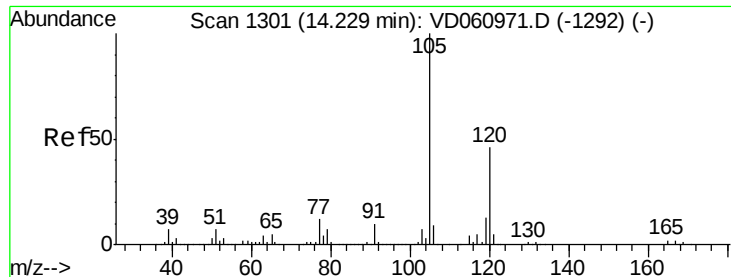
126 0.0 18.6 55.6#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): VDC





#80

1,3,5-Trimethylbenzene

Concen: 8.257 ug/l

RT: 14.22 min Scan# 1300

Delta R.T. -0.00 min

Lab File: VD061169.D

Acq: 19 Mar 2019 4:06

Instrument :

MSVOA_D

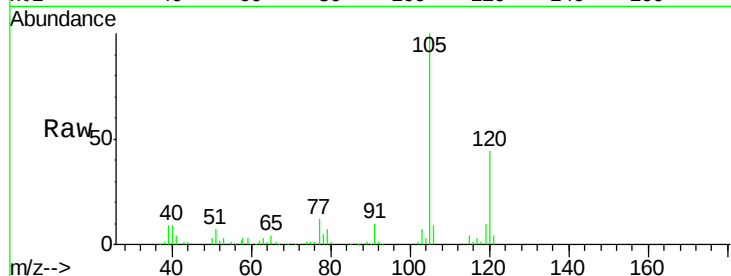
ClientSampleId :

Tot Ion:105 Resp: 175158

Ion Ratio Lower Upper

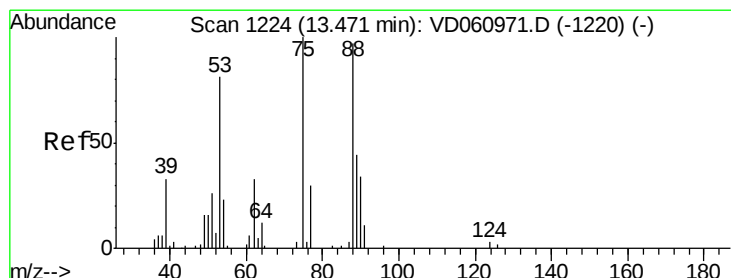
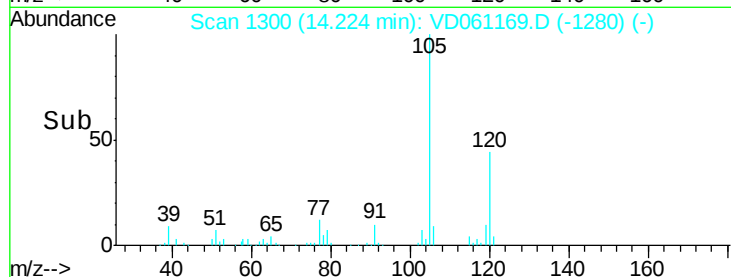
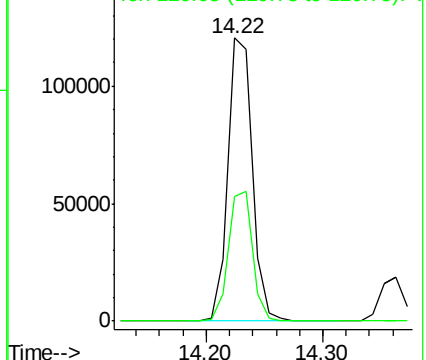
105 100

120 43.9 22.9 68.5



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: 85.790 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.07 min

Lab File: VD061169.D

Acq: 19 Mar 2019 4:06

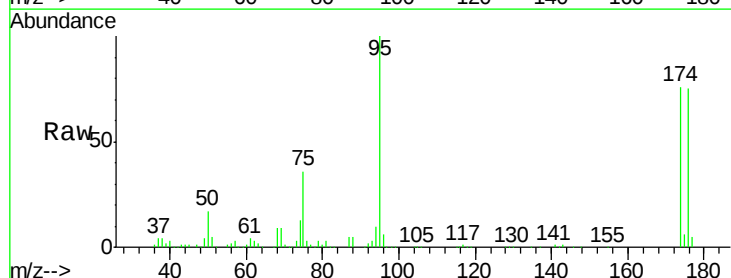
Tgt Ion: 75 Resp: 141089

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

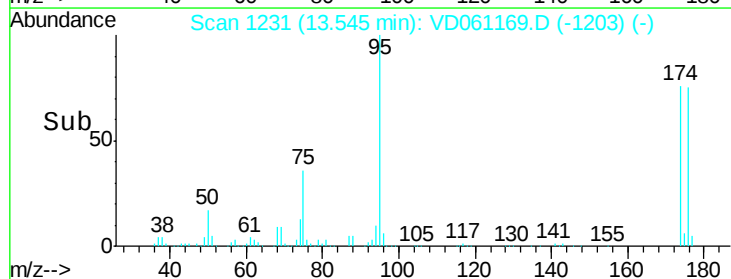
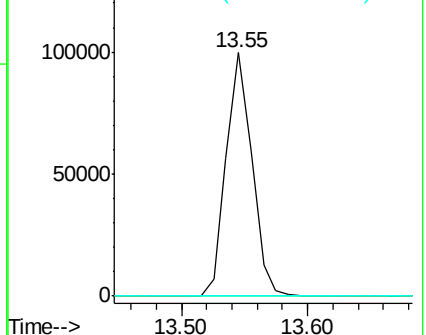
89 0.0 34.8 52.2#

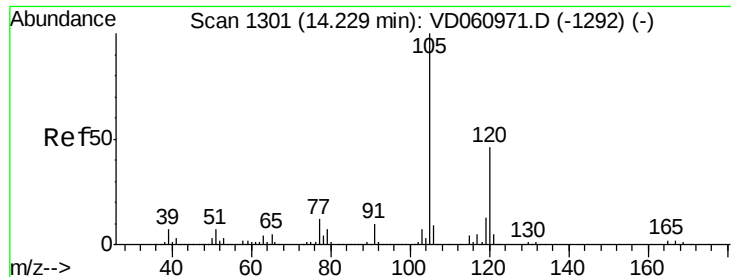


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

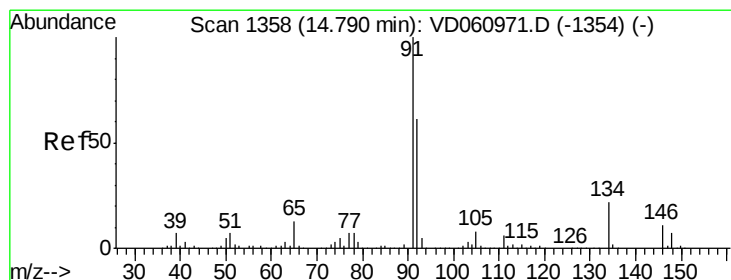
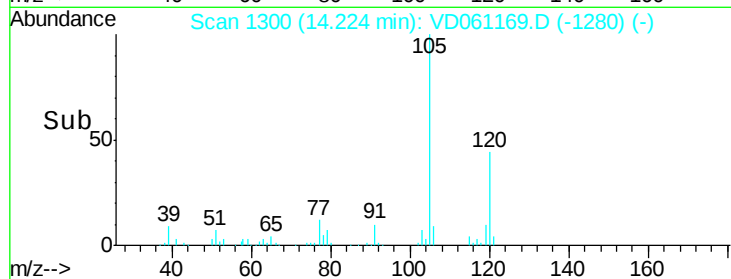
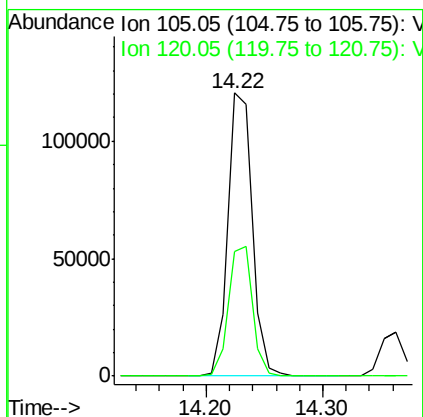
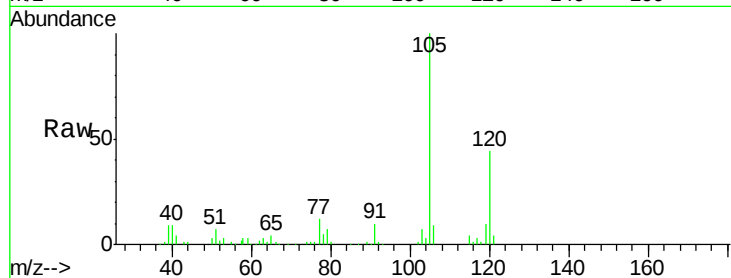




#84
 1,2,4-Trimethylbenzene
 Concen: 8.257 ug/l
 RT: 14.22 min Scan# 1300
 Delta R.T. -0.00 min
 Lab File: VD061169.D
 Acq: 19 Mar 2019 4:06

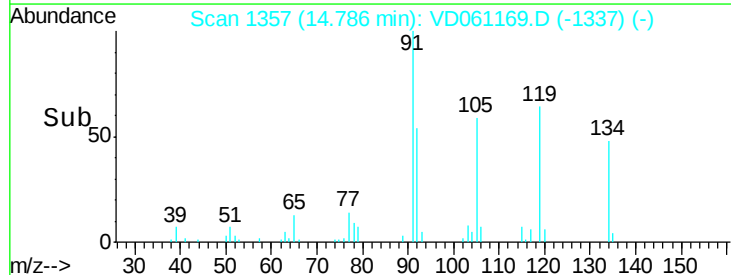
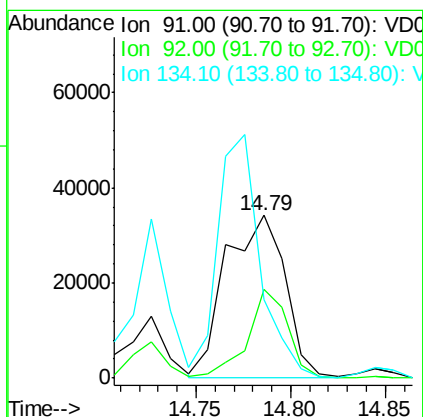
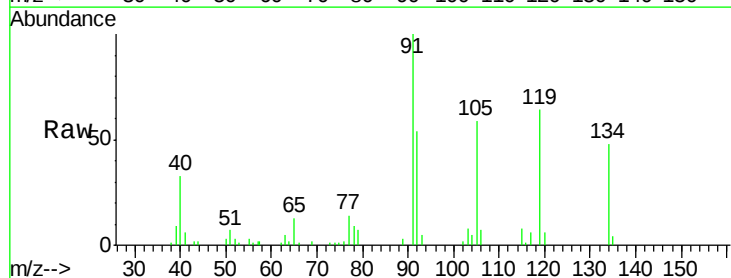
Instrument :
 MSVOA_D
 ClientSampleId :

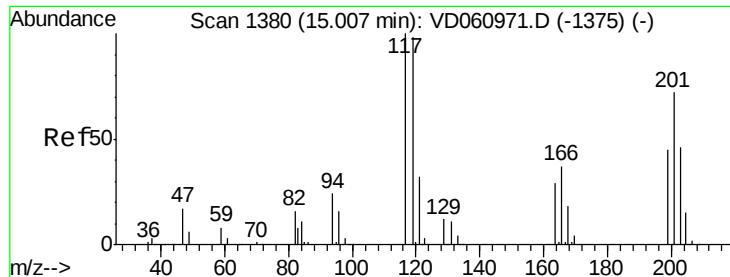
Tot Ion: 105 Resp: 175158
 Ion Ratio Lower Upper
 105 100
 120 43.9 22.9 68.5



#89
 n-Butylbenzene
 Concen: 3.367 ug/l
 RT: 14.79 min Scan# 1357
 Delta R.T. -0.00 min
 Lab File: VD061169.D
 Acq: 19 Mar 2019 4:06

Tgt Ion: 91 Resp: 74915
 Ion Ratio Lower Upper
 91 100
 92 54.5 30.6 91.8
 134 48.3 11.0 33.0#





#90

Hexachloroethane

Concen: 1.166 ug/l

RT: 14.97 min Scan# 1376

Delta R.T. -0.03 min

Lab File: VD061169.D

Acq: 19 Mar 2019 4:06

Instrument :

MSVOA_D

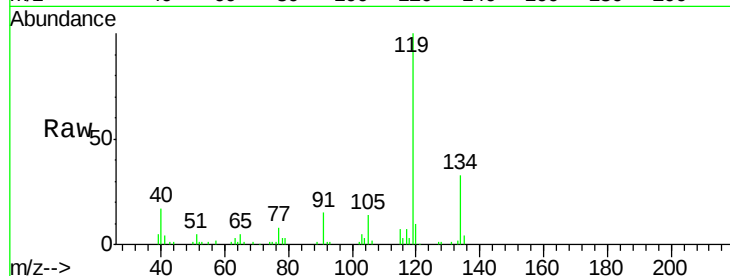
ClientSampleId :

Tot Ion:117 Resp: 7629

Ion Ratio Lower Upper

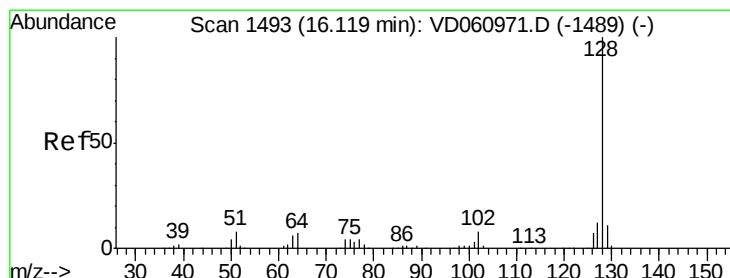
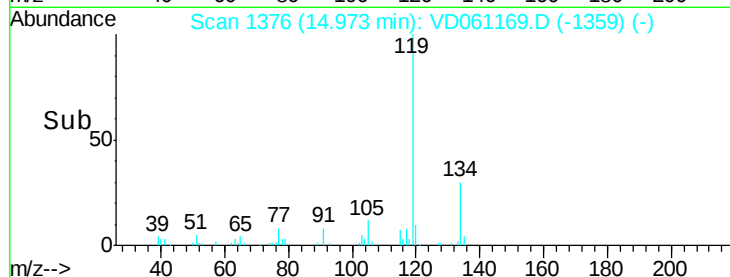
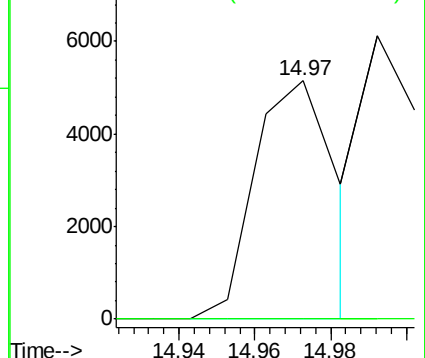
117 100

201 0.0 36.2 108.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#95

Naphthalene

Concen: 1.011 ug/l

RT: 16.11 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VD061169.D

Acq: 19 Mar 2019 4:06

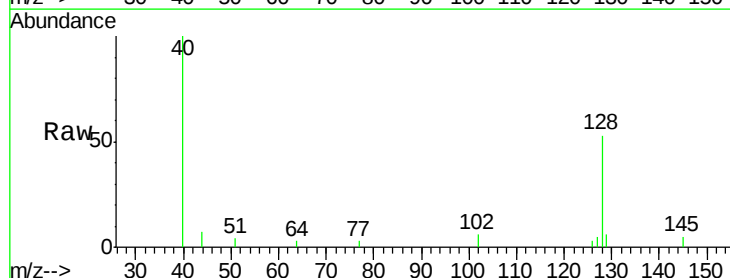
Tgt Ion:128 Resp: 7568

Ion Ratio Lower Upper

128 100

127 9.2 9.8 14.8#

129 11.3 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

