

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042519\
 Data File : VD062040.D
 Acq On : 25 Apr 2019 15:51
 Operator : VA/AP
 Sample : K2200-09RE
 Misc : 7.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 26 01:14:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 14:52:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	485127	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	822177	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	617739	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	246123	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	254794	67.11	ug/l	0.00
Spiked Amount			Recovery	=	134.22%	
35) Dibromofluoromethane	6.92	113	324580	57.08	ug/l	0.00
Spiked Amount			Recovery	=	114.16%	
50) Toluene-d8	10.41	98	570390	42.16	ug/l	0.00
Spiked Amount			Recovery	=	84.32%	
62) 4-Bromofluorobenzene	13.55	95	262585	48.39	ug/l	0.00
Spiked Amount			Recovery	=	96.78%	

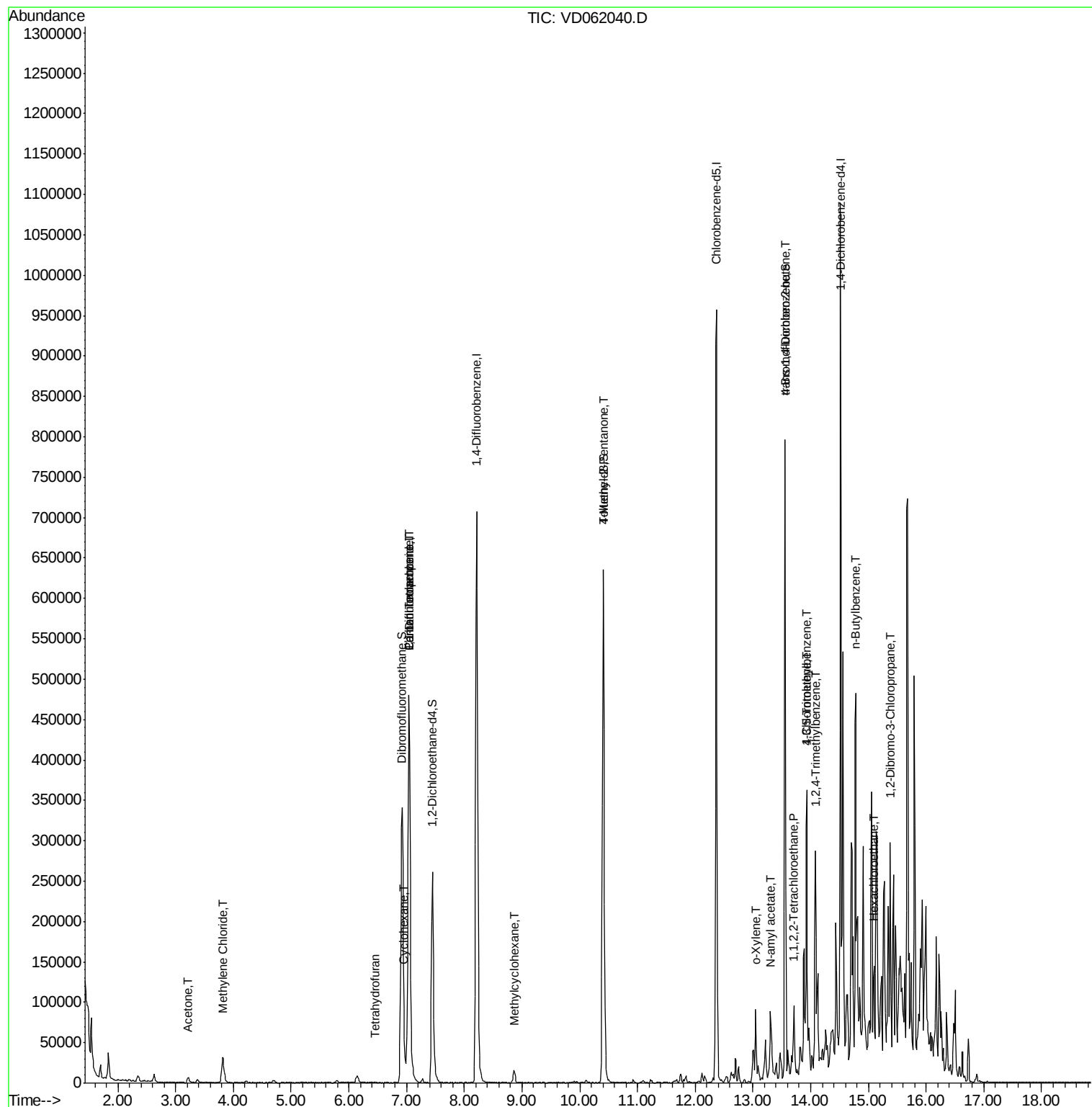
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.13	94	243	Below Cal	#	12
16) Acetone	3.22	43	12366	13.640	ug/l	94
18) Methyl Acetate	3.65	43	336	Below Cal	#	53
20) Methylene Chloride	3.81	84	23546	2.292	ug/l	92
29) Tetrahydrofuran	6.46	42	643	1.187	ug/l #	30
31) Cyclohexane	6.96	56	5867	1.037	ug/l #	66
36) 1,1-Dichloropropene	7.04	75	36993	5.775	ug/l #	46
38) Carbon Tetrachloride	7.04	117	47870	5.897	ug/l #	15
39) Methylcyclohexane	8.87	83	8333	1.319	ug/l #	89
51) 4-Methyl-2-Pentanone	10.41	43	2674	1.096	ug/l #	1
69) o-Xylene	13.05	106	17719	2.812	ug/l	98
74) N-amyl acetate	13.29	43	4842	1.145	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	13.71	83	5720	1.778	ug/l #	46
80) 1,3,5-Trimethylbenzene	13.93	105	146914	11.222	ug/l	100
81) trans-1,4-Dichloro-2-buten	13.55	75	98747	104.261	ug/l #	16
82) 4-Chlorotoluene	13.93	91	15682	1.251	ug/l #	37
84) 1,2,4-Trimethylbenzene	14.08	105	142466	11.397	ug/l	72
89) n-Butylbenzene	14.78	91	43542	3.307	ug/l #	1
90) Hexachloroethane	15.10	117	55516	13.999	ug/l #	20
92) 1,2-Dibromo-3-Chloropropan	15.37	75	535	3.704	ug/l #	1

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

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QLast Update : Tue Apr 23 14:52:55 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.01 min

Lab File: VD062040.D

Acq: 25 Apr 2019 15:51

Instrument :

MSVOA_D

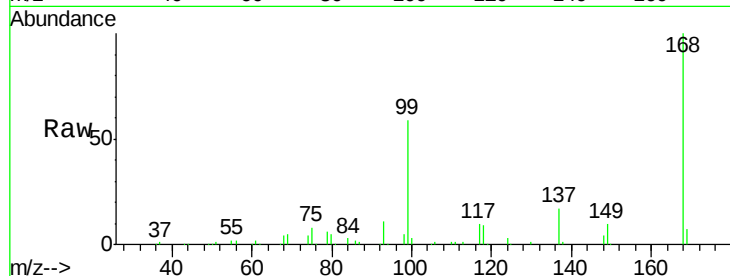
ClientSampleId :

Tot Ion:168 Resp: 485127

Ion Ratio Lower Upper

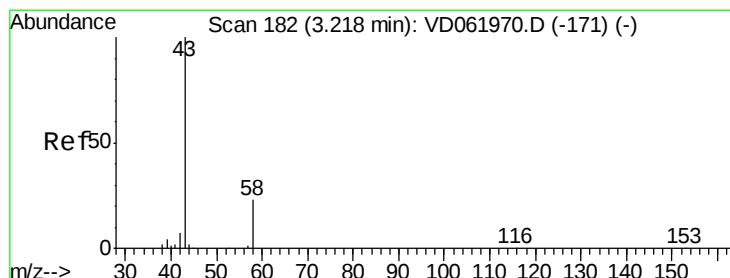
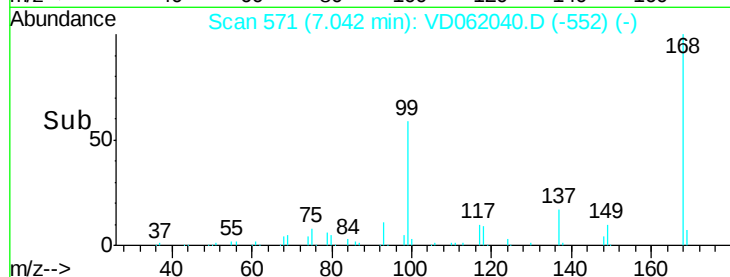
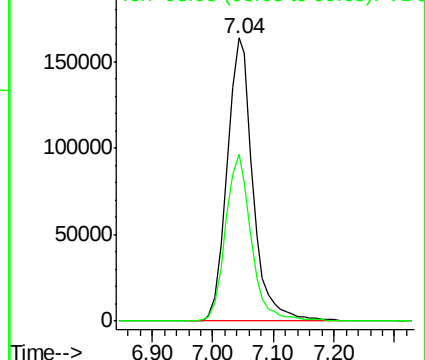
168 100

99 59.2 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 13.640 ug/l

RT: 3.22 min Scan# 183

Delta R.T. 0.00 min

Lab File: VD062040.D

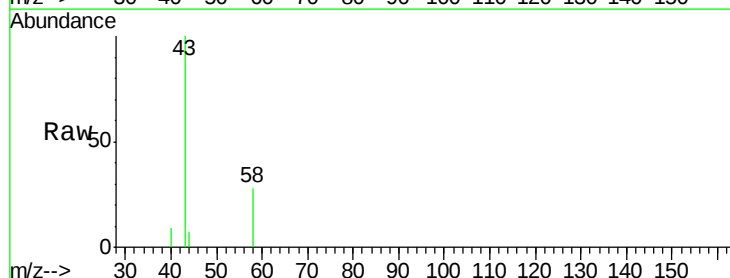
Acq: 25 Apr 2019 15:51

Tgt Ion: 43 Resp: 12366

Ion Ratio Lower Upper

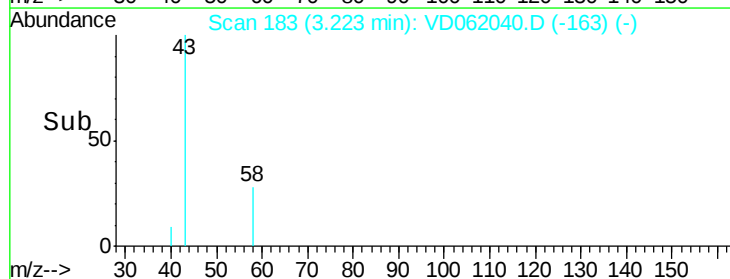
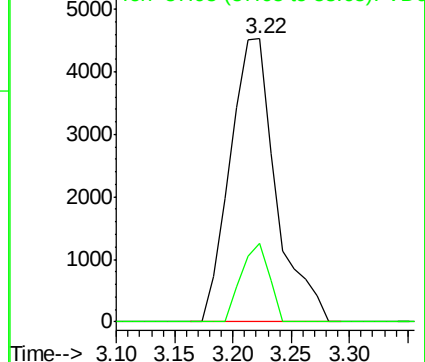
43 100

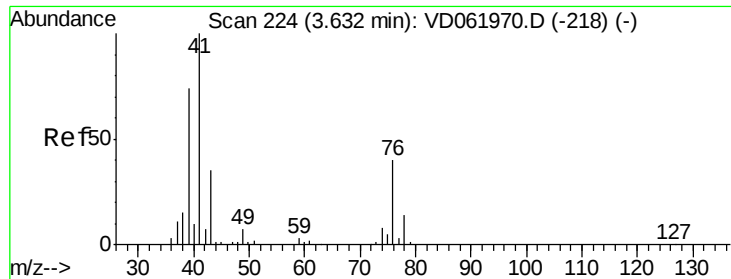
58 27.8 19.9 29.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

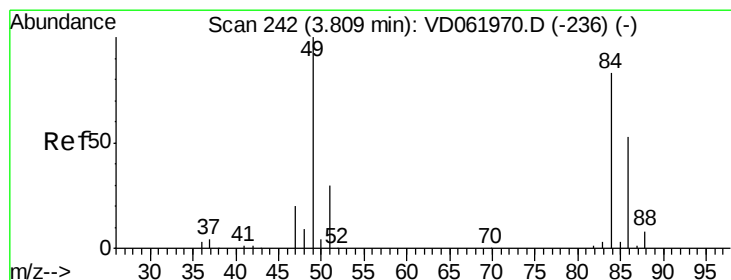
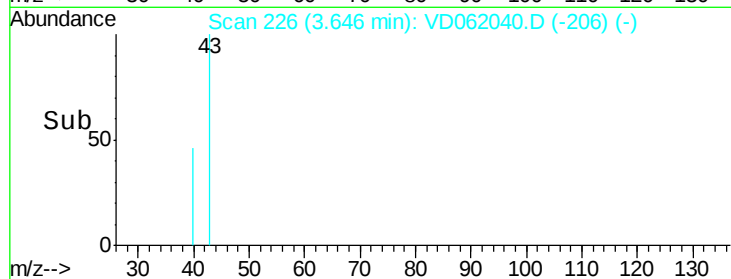
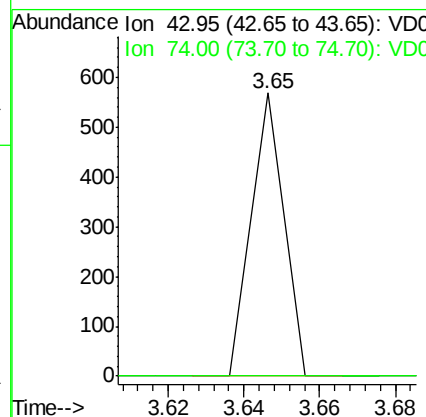
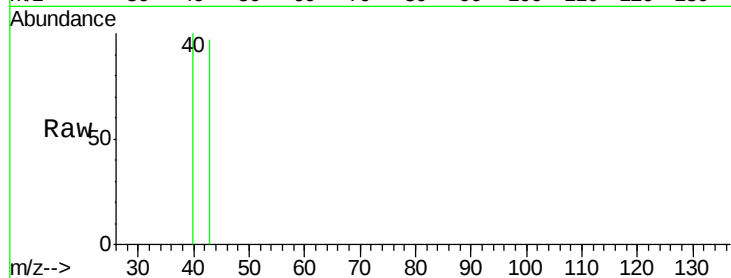




#18
Methyl Acetate
Concen: Below Cal
RT: 3.65 min Scan# 226
Delta R.T. 0.00 min
Lab File: VD062040.D
Acq: 25 Apr 2019 15:51

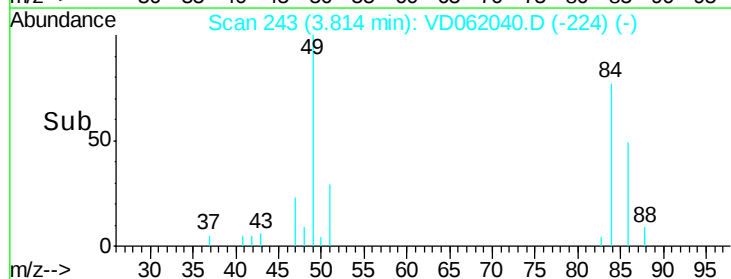
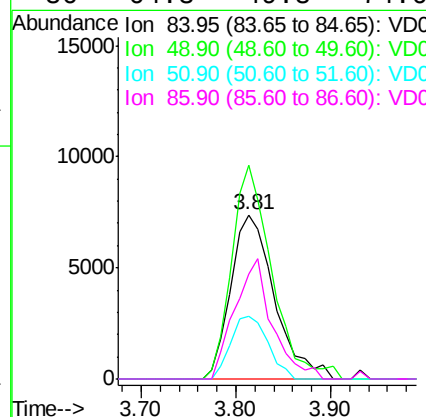
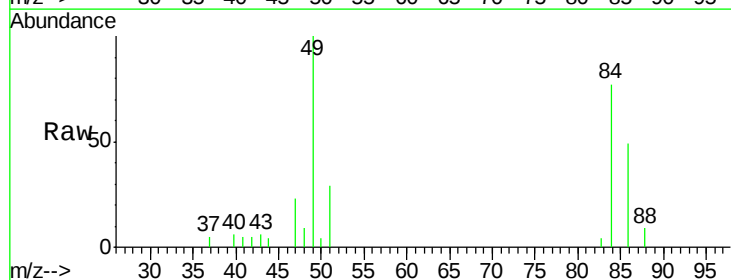
Instrument :
MSVOA_D
ClientSampleId :

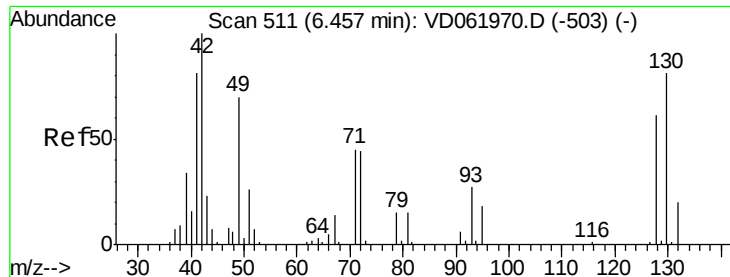
Tot Ion: 43 Resp: 336
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#20
Methylene Chloride
Concen: 2.292 ug/l
RT: 3.81 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD062040.D
Acq: 25 Apr 2019 15:51

Tgt Ion: 84 Resp: 23546
Ion Ratio Lower Upper
84 100
49 130.1 94.0 141.0
51 37.9 29.0 43.4
86 64.3 49.8 74.6





#29

Tetrahydrofuran

Concen: 1.187 ug/l

RT: 6.46 min Scan# 512

Delta R.T. 0.00 min

Lab File: VD062040.D

Acq: 25 Apr 2019 15:51

Instrument :

MSVOA_D

ClientSampleId :

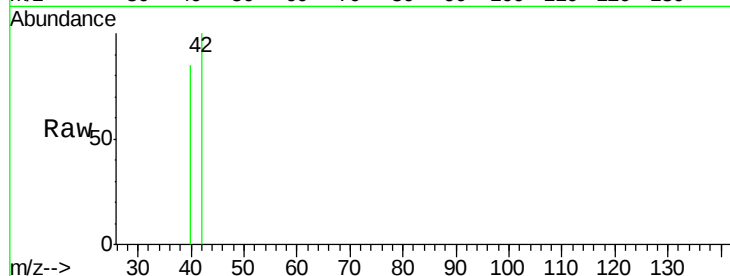
Tot Ion: 42 Resp: 643

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

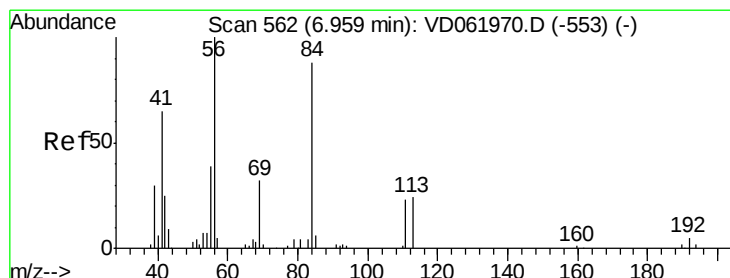
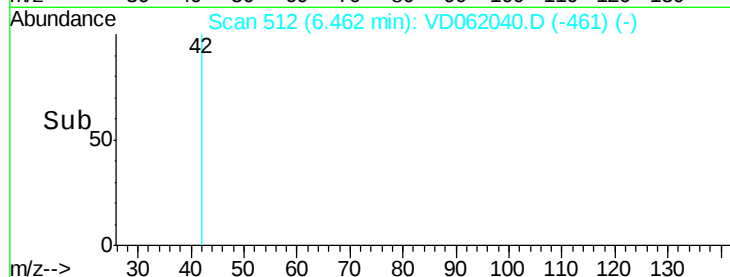
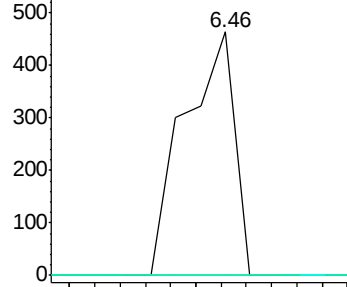
71 0.0 36.7 55.1#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 1.037 ug/l

RT: 6.96 min Scan# 563

Delta R.T. 0.00 min

Lab File: VD062040.D

Acq: 25 Apr 2019 15:51

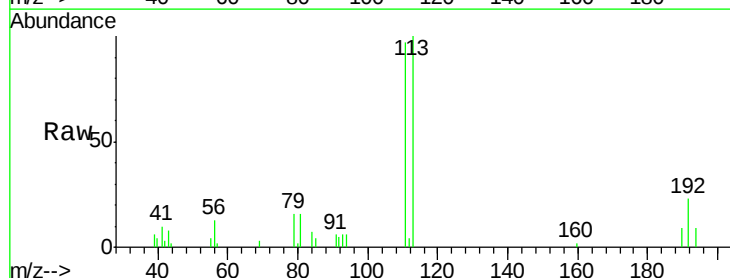
Tgt Ion: 56 Resp: 5867

Ion Ratio Lower Upper

56 100

69 19.6 25.8 38.6#

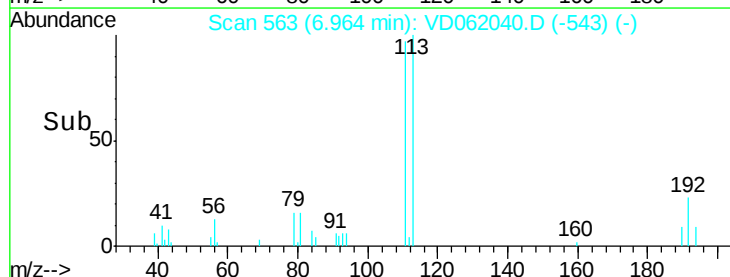
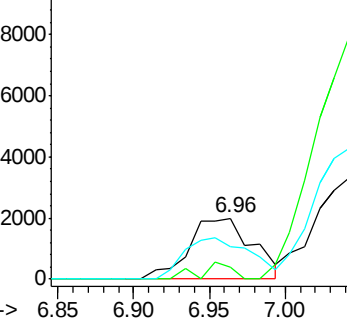
84 53.8 72.2 108.4#

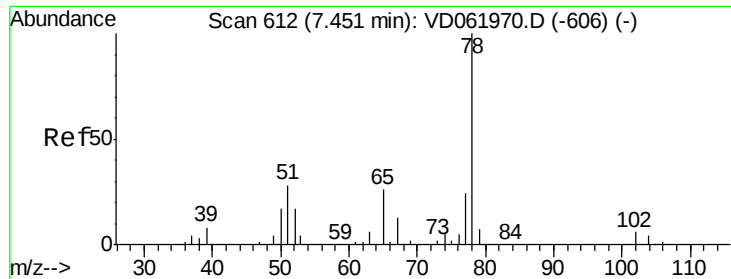


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: 67.106 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD062040.D

Acq: 25 Apr 2019 15:51

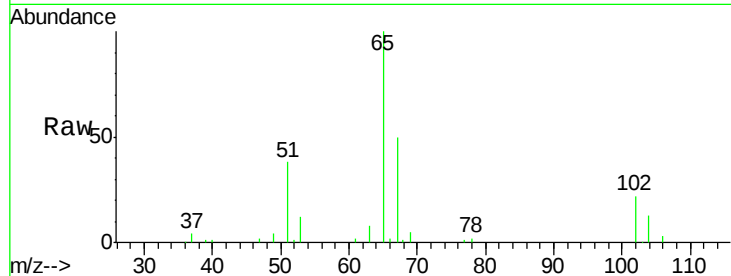
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 65 Resp: 254794

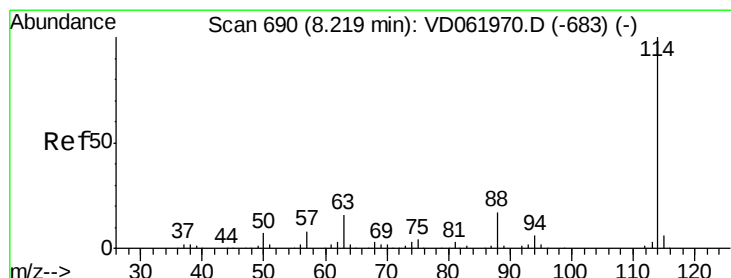
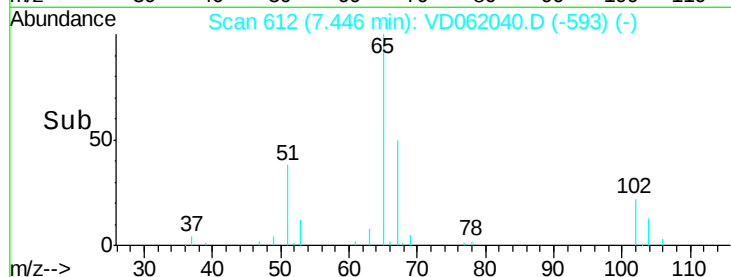
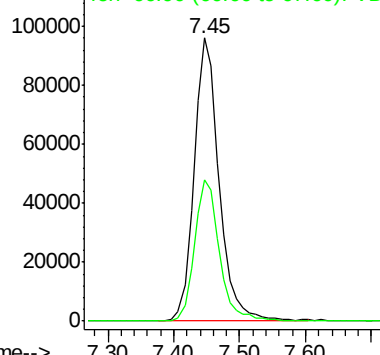
Ion Ratio Lower Upper

65 100

67 50.1 0.0 98.0



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. -0.01 min

Lab File: VD062040.D

Acq: 25 Apr 2019 15:51

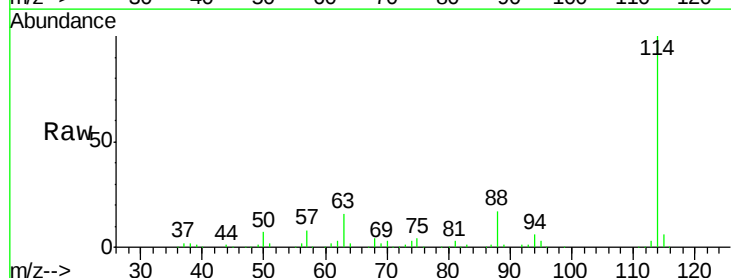
Tgt Ion: 114 Resp: 822177

Ion Ratio Lower Upper

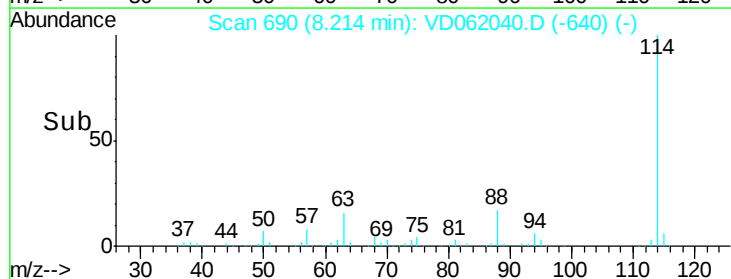
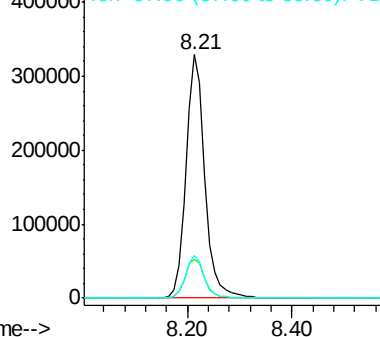
114 100

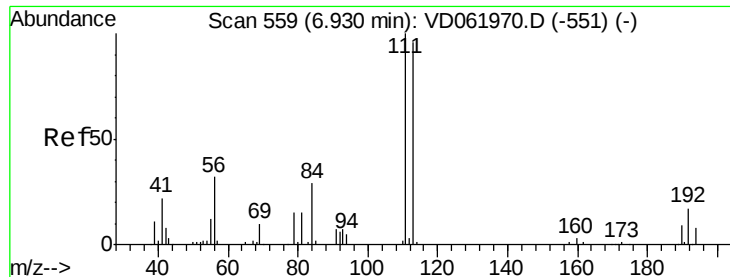
63 16.2 0.0 32.4

88 17.4 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): VDC
Ion 62.95 (62.65 to 63.65): VDC
Ion 87.90 (87.60 to 88.60): VDC

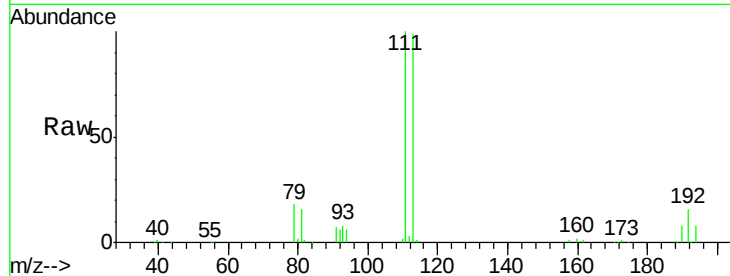




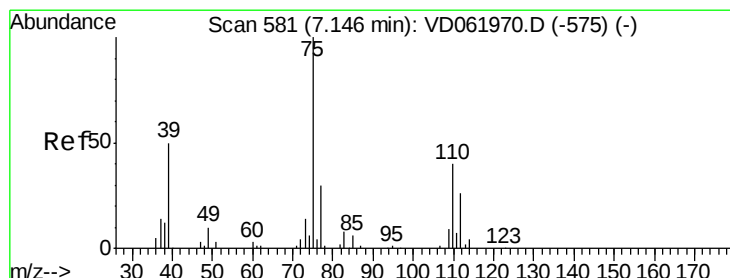
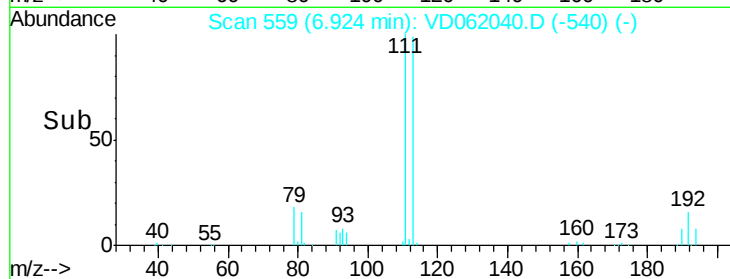
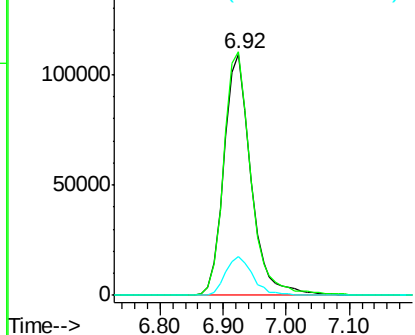
#35
 Dibromofluoromethane
 Concen: 57.083 ug/l
 RT: 6.92 min Scan# 559
 Delta R.T. -0.01 min
 Lab File: VD062040.D
 Acq: 25 Apr 2019 15:51

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.8	78.5	117.7
192	16.2	13.0	19.4

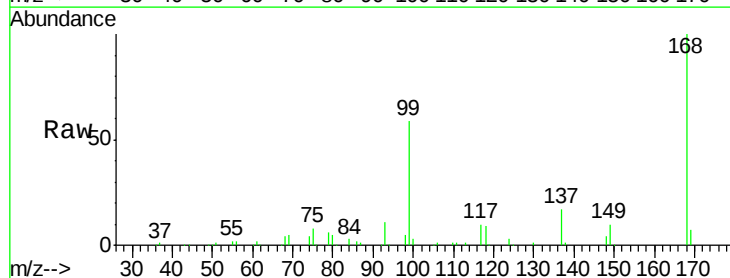


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

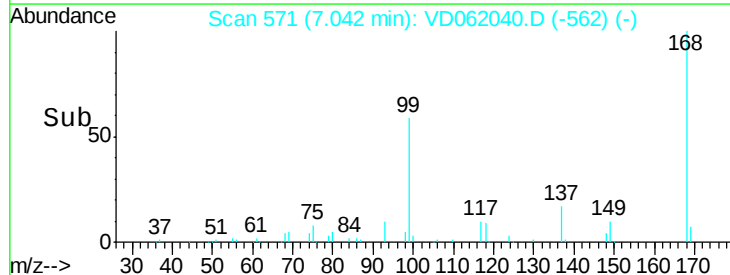
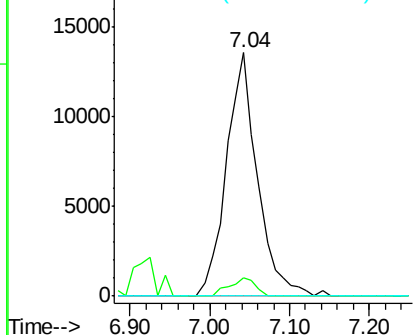


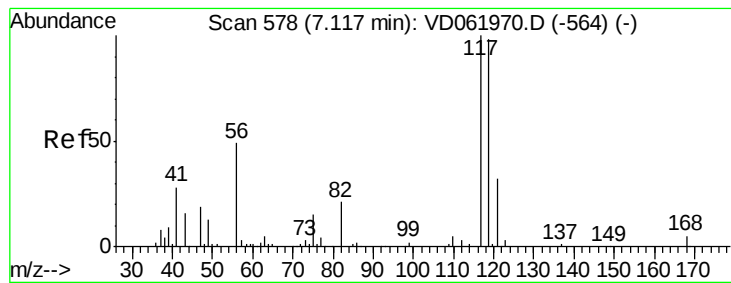
#36
 1,1-Dichloropropene
 Concen: 5.775 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.11 min
 Lab File: VD062040.D
 Acq: 25 Apr 2019 15:51

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.4	19.1	57.1#
77	0.0	25.6	38.4#



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: 5.897 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD062040.D

Acq: 25 Apr 2019 15:51

Instrument :

MSVOA_D

ClientSampleId :

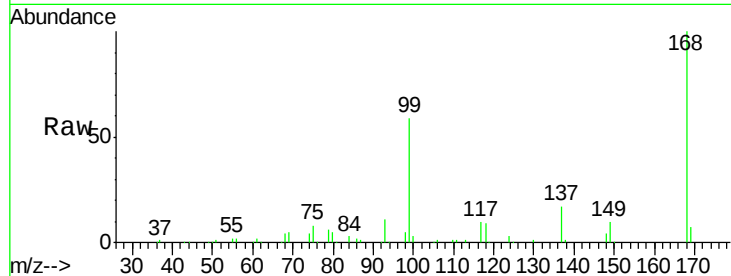
Tot Ion:117 Resp: 47870

Ion Ratio Lower Upper

117 100

119 2.8 75.8 113.8#

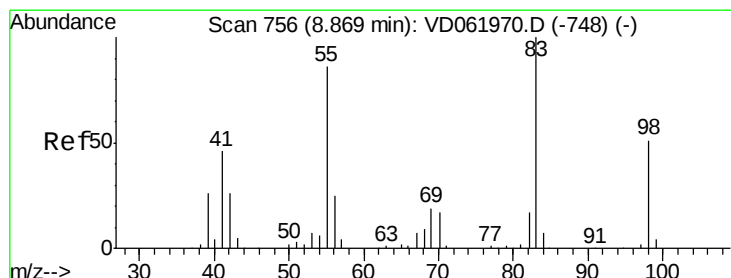
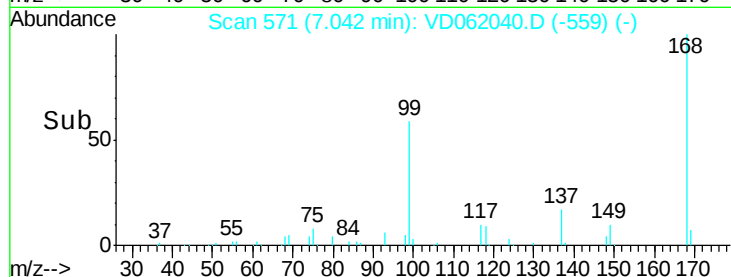
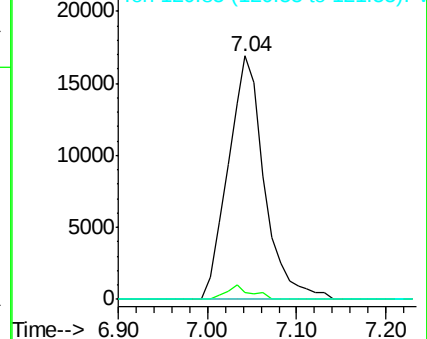
121 0.0 25.9 38.9#



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: 1.319 ug/l

RT: 8.87 min Scan# 757

Delta R.T. 0.00 min

Lab File: VD062040.D

Acq: 25 Apr 2019 15:51

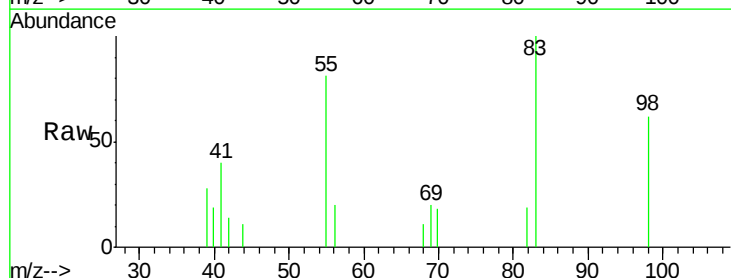
Tgt Ion: 83 Resp: 8333

Ion Ratio Lower Upper

83 100

55 81.1 68.2 102.4

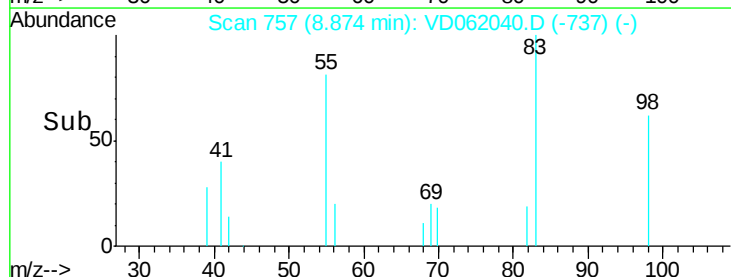
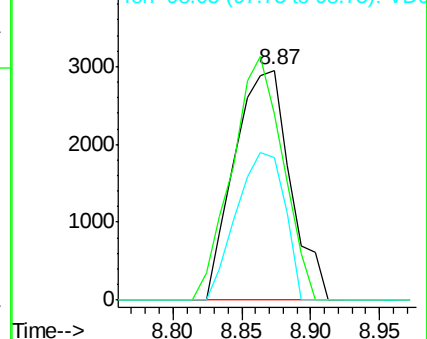
98 62.1 38.2 57.4#

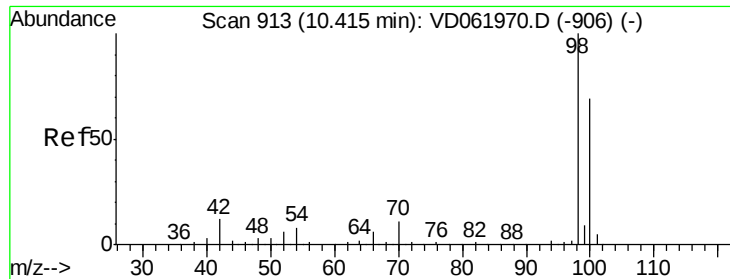


Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC

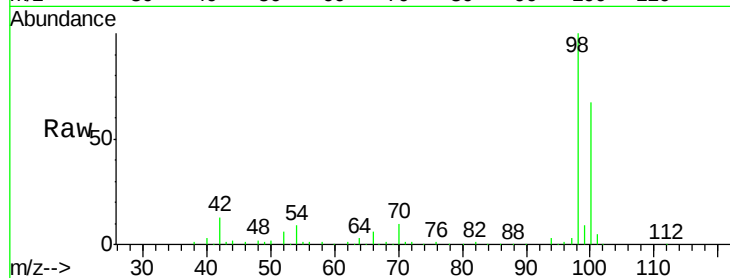




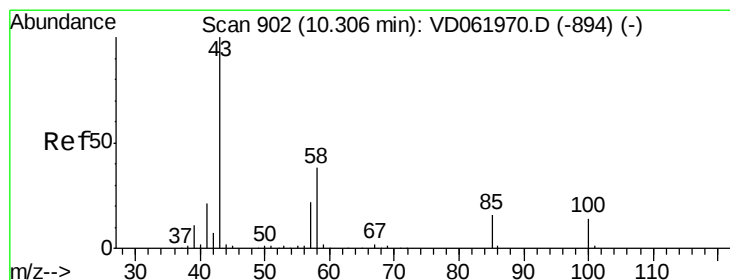
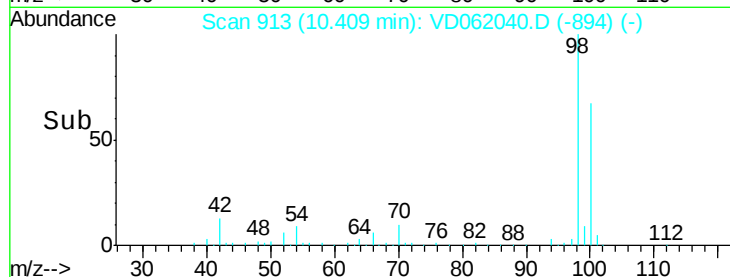
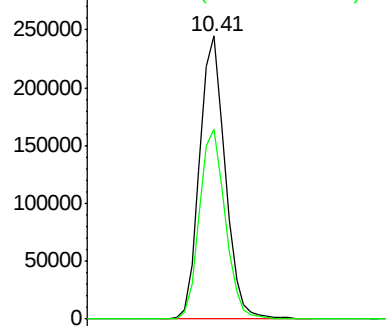
#50
Toluene-d8
Concen: 42.157 ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.01 min
Lab File: VD062040.D
Acq: 25 Apr 2019 15:51

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 570390
Ion Ratio Lower Upper
98 100
100 67.1 53.8 80.8

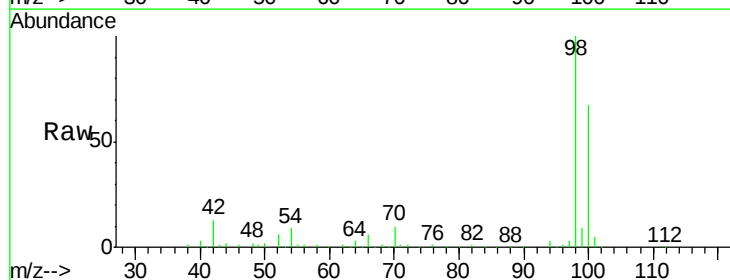


Abundance Ion 98.05 (97.75 to 98.75): VD061970.D (-906) (-)
Ion 100.05 (99.75 to 100.75): VD061970.D (-906) (-)

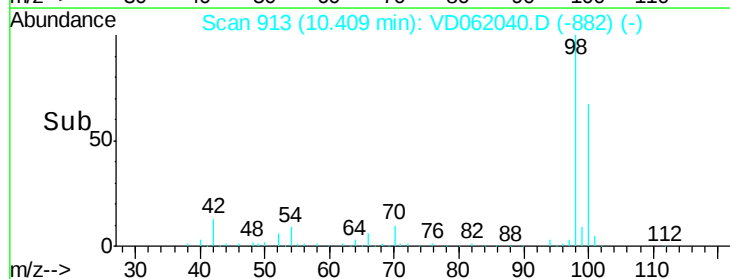
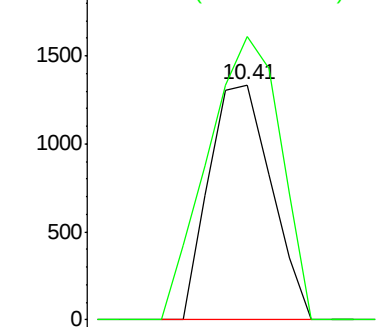


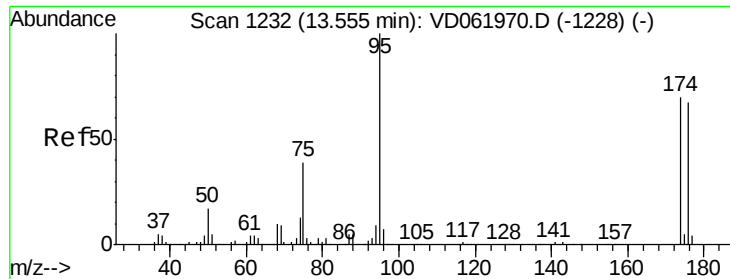
#51
4-Methyl-2-Pentanone
Concen: 1.096 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.11 min
Lab File: VD062040.D
Acq: 25 Apr 2019 15:51

Tgt Ion: 43 Resp: 2674
Ion Ratio Lower Upper
43 100
58 120.5 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VD061970.D (-894) (-)
Ion 57.95 (57.65 to 58.65): VD061970.D (-894) (-)





#62

4-Bromofluorobenzene

Concen: 48.386 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD062040.D

Acq: 25 Apr 2019 15:51

Instrument :

MSVOA_D

ClientSampleId :

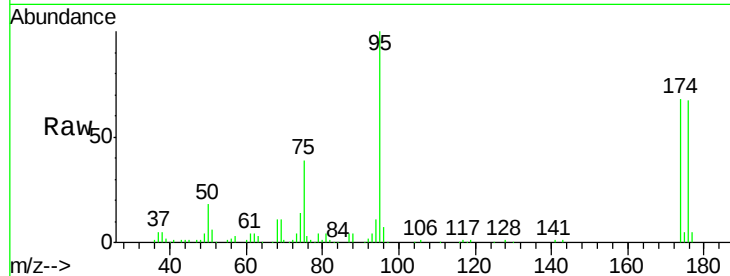
Tot Ion: 95 Resp: 262585

Ion Ratio Lower Upper

95 100

174 67.7 0.0 181.8

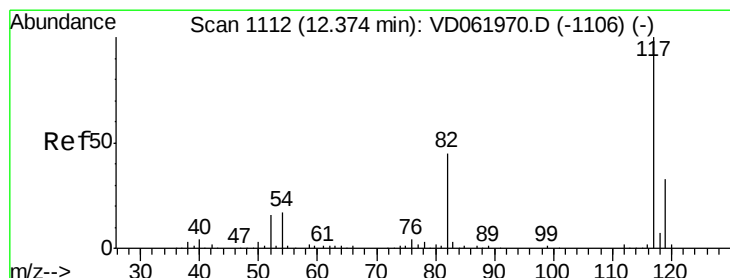
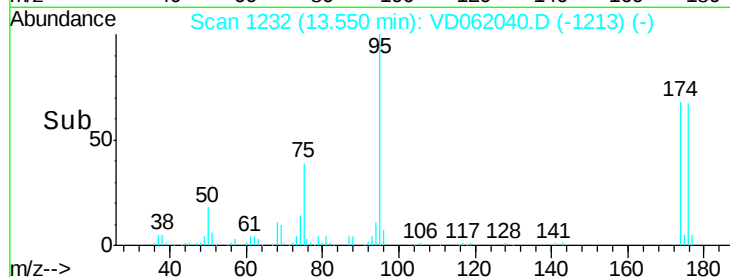
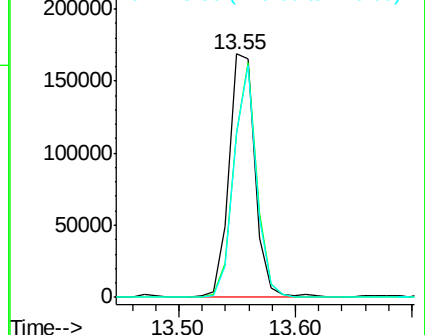
176 67.4 0.0 174.4



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: 12.37 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VD062040.D

Acq: 25 Apr 2019 15:51

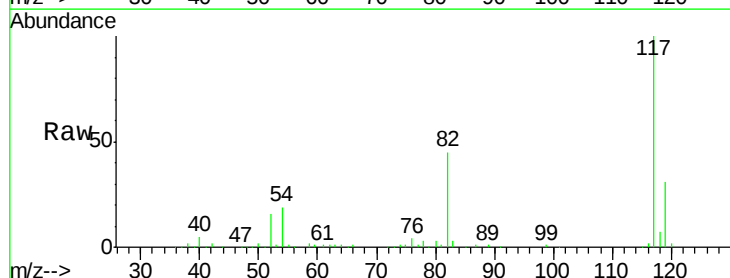
Tgt Ion: 117 Resp: 617739

Ion Ratio Lower Upper

117 100

82 45.2 36.2 54.2

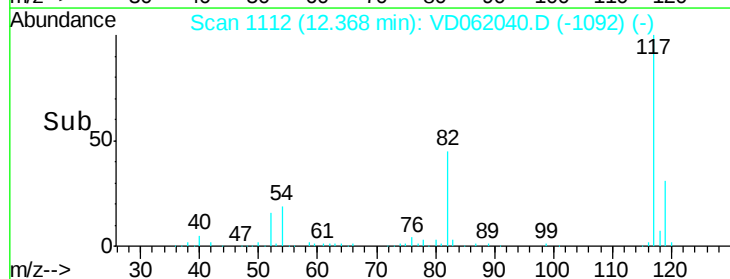
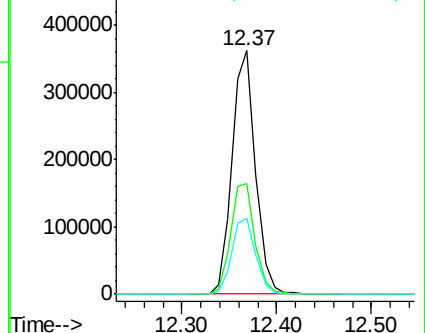
119 31.1 26.2 39.4

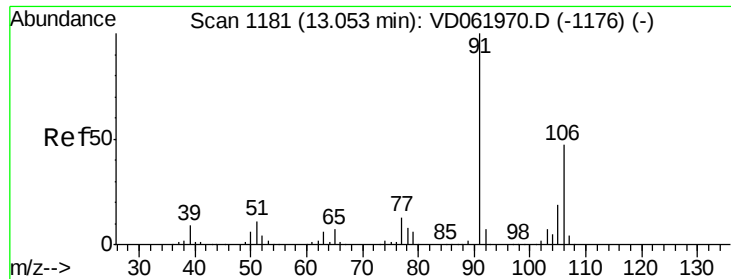


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

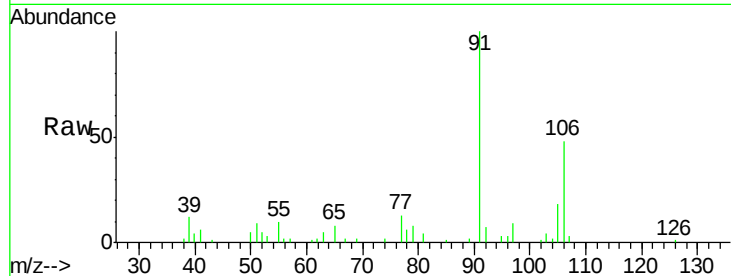




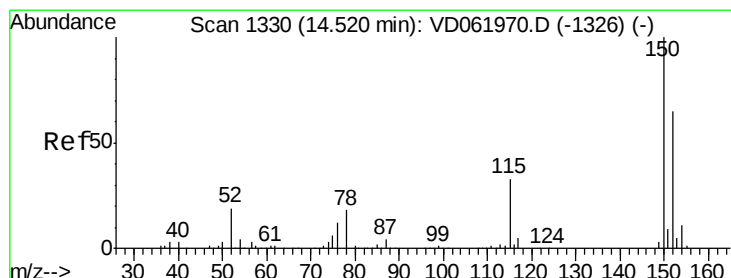
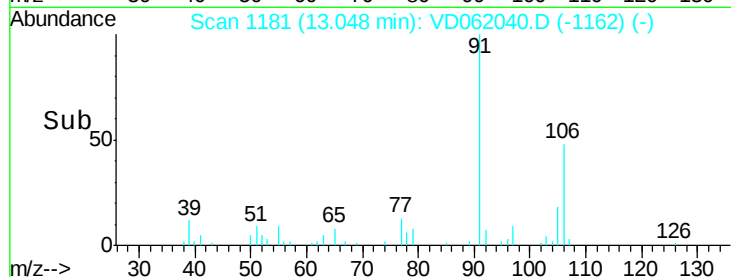
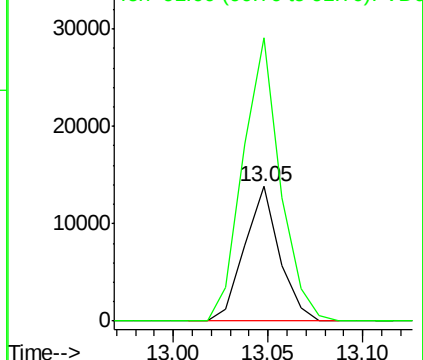
#69
o-Xylene
Concen: 2.812 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.01 min
Lab File: VD062040.D
Acq: 25 Apr 2019 15:51

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:106 Resp: 17719
Ion Ratio Lower Upper
106 100
91 210.5 106.7 319.9

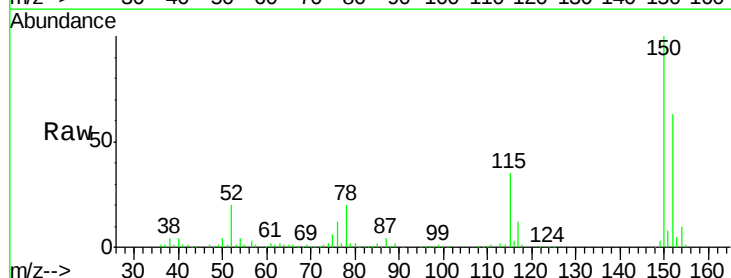


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

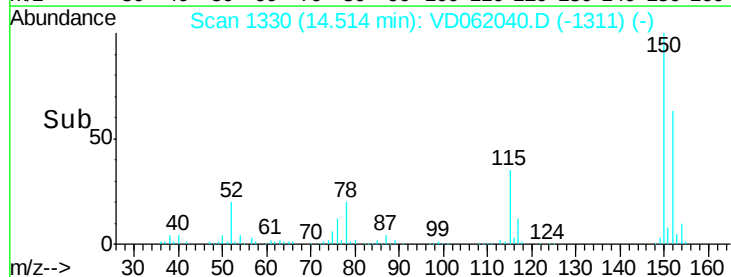
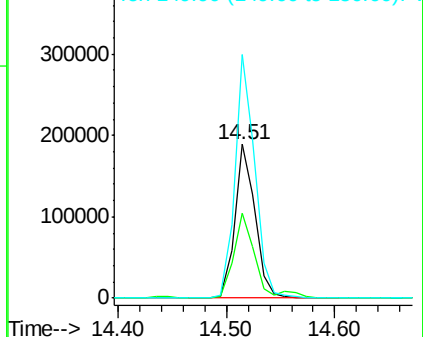


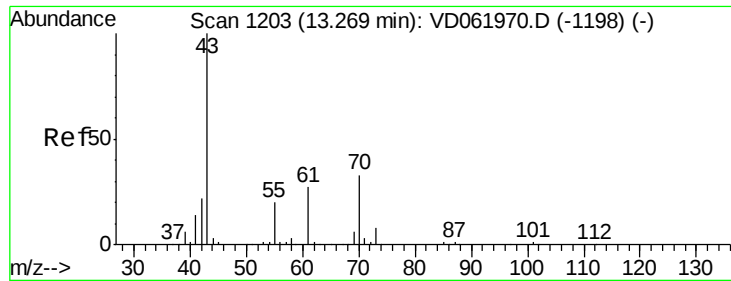
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. -0.01 min
Lab File: VD062040.D
Acq: 25 Apr 2019 15:51

Tgt Ion:152 Resp: 246123
Ion Ratio Lower Upper
152 100
115 55.6 30.9 92.7
150 158.7 0.0 314.8



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-amvl acetate

Concen: 1.145 ug/l

RT: 13.29 min Scan# 1206

Delta R.T. 0.03 min

Lab File: VD062040.D

Acq: 25 Apr 2019 15:51

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 4842

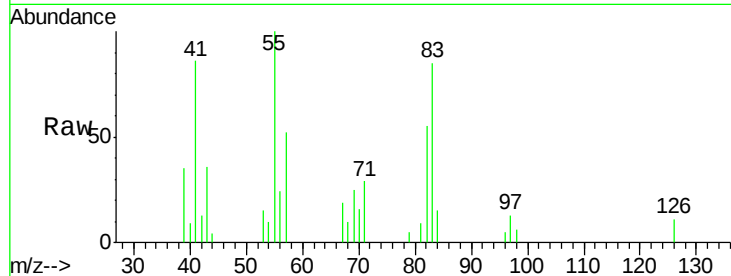
Ion Ratio Lower Upper

43 100

70 45.4 24.2 36.4#

55 275.2 16.0 24.0#

61 0.0 21.6 32.4#

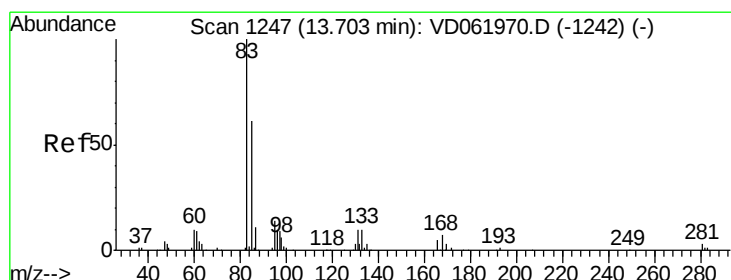
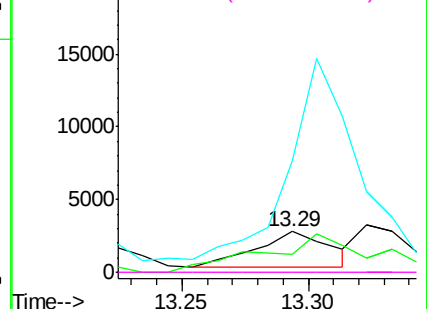
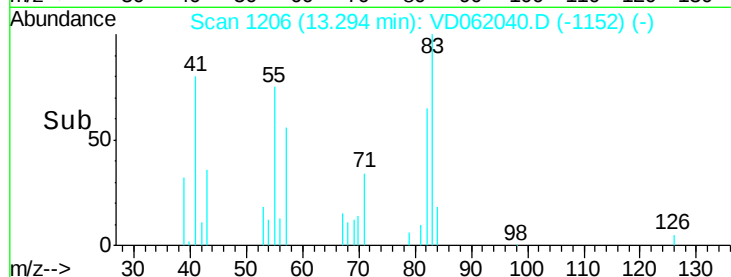


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#75

1,1,2,2-Tetrachloroethane

Concen: 1.778 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VD062040.D

Acq: 25 Apr 2019 15:51

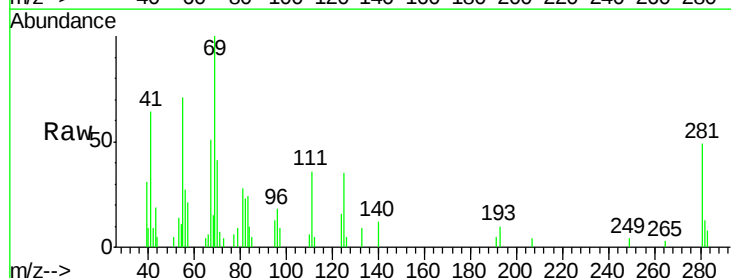
Tgt Ion: 83 Resp: 5720

Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

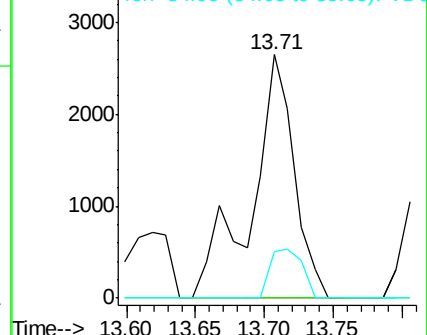
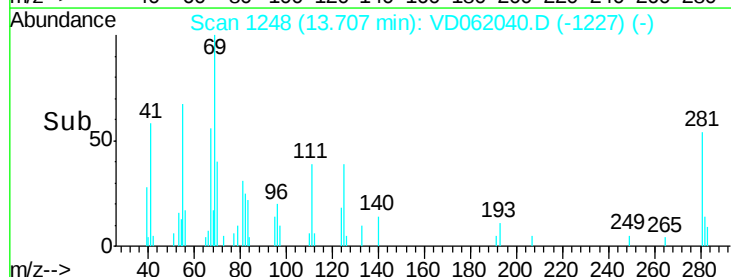
85 18.9 32.6 97.7#

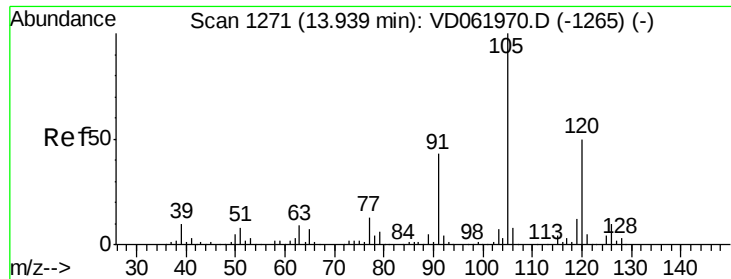


Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): VDC

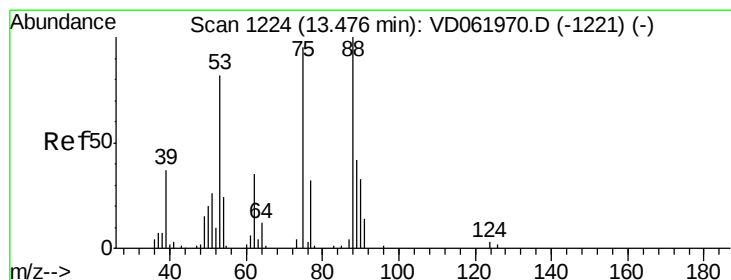
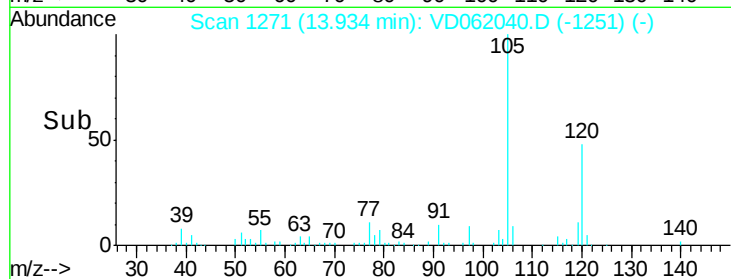
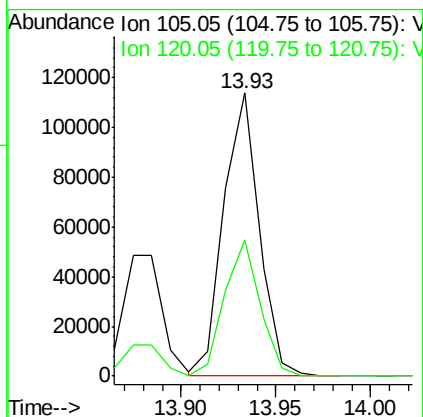
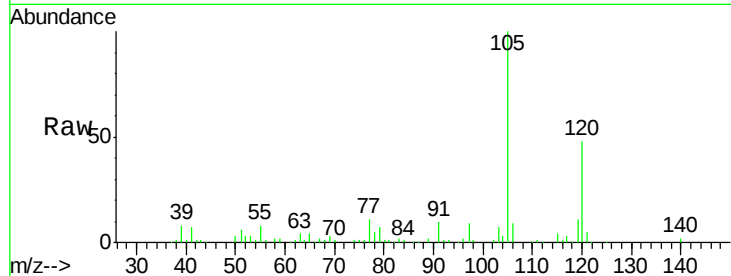




#80
 1,3,5-Trimethylbenzene
 Concen: 11.222 ug/l
 RT: 13.93 min Scan# 1271
 Delta R.T. 0.00 min
 Lab File: VD062040.D
 Acq: 25 Apr 2019 15:51

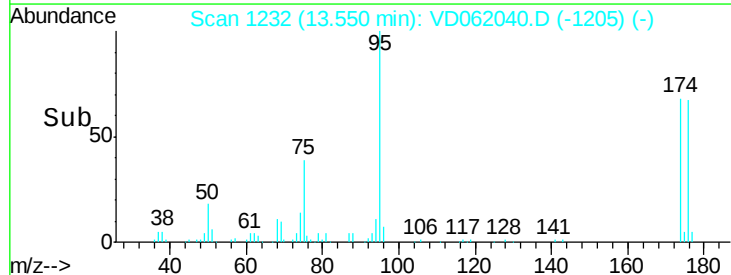
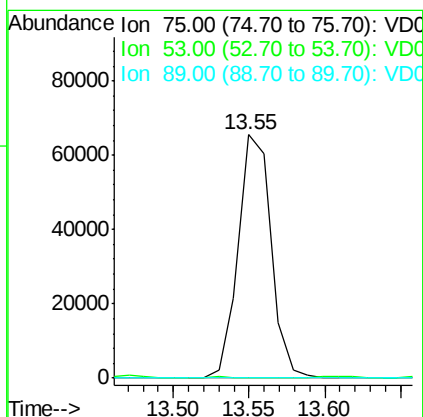
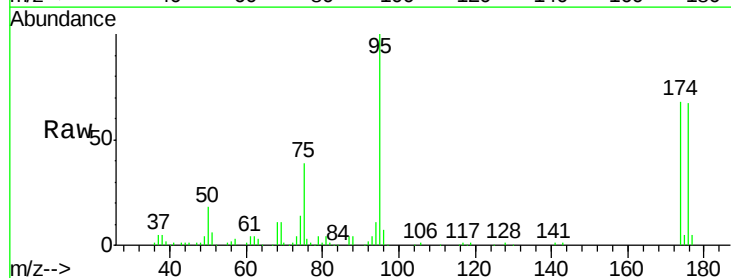
Instrument :
 MSVOA_D
 ClientSampled :

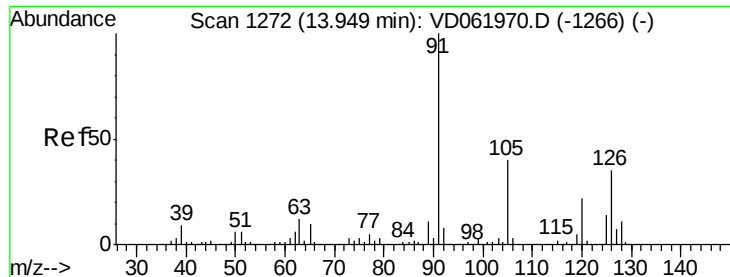
Tot Ion:105 Resp: 146914
 Ion Ratio Lower Upper
 105 100
 120 48.2 24.0 72.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 104.261 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.07 min
 Lab File: VD062040.D
 Acq: 25 Apr 2019 15:51

Tgt Ion: 75 Resp: 98747
 Ion Ratio Lower Upper
 75 100
 53 0.0 65.8 98.8#
 89 0.0 35.0 52.6#





#82

4-Chlorotoluene

Concen: 1.251 ug/l

RT: 13.93 min Scan# 1271

Delta R.T. -0.02 min

Lab File: VD062040.D

Acq: 25 Apr 2019 15:51

Instrument :

MSVOA_D

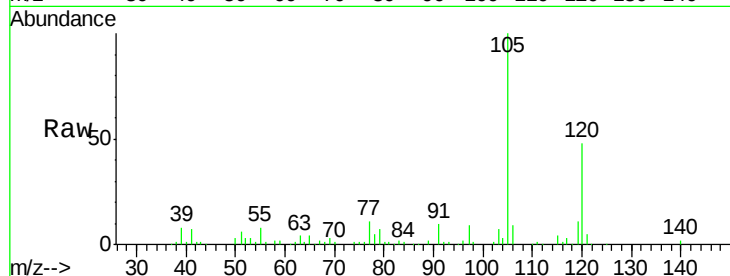
ClientSampled :

Tot Ion: 91 Resp: 15682

Ion Ratio Lower Upper

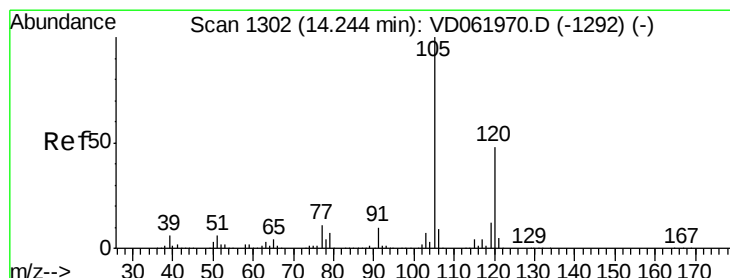
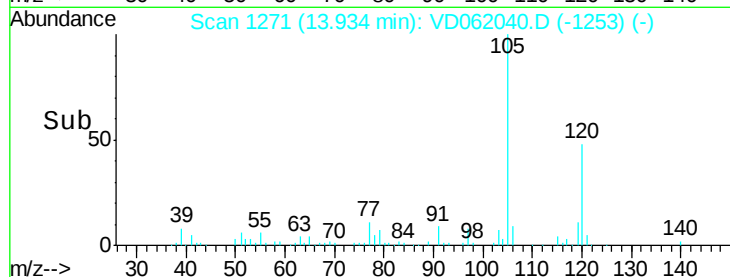
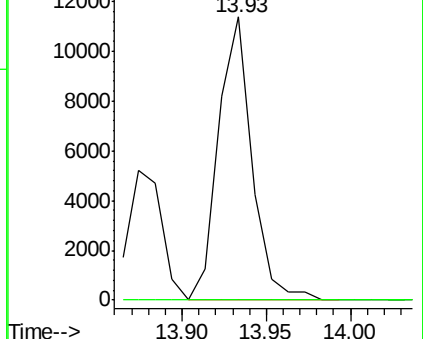
91 100

126 0.0 19.1 57.5#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#84

1,2,4-Trimethylbenzene

Concen: 11.397 ug/l

RT: 14.08 min Scan# 1286

Delta R.T. -0.16 min

Lab File: VD062040.D

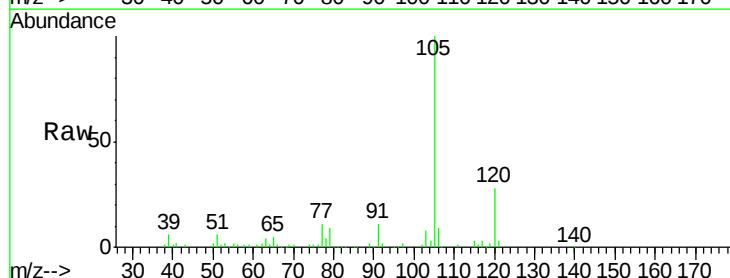
Acq: 25 Apr 2019 15:51

Tgt Ion:105 Resp: 142466

Ion Ratio Lower Upper

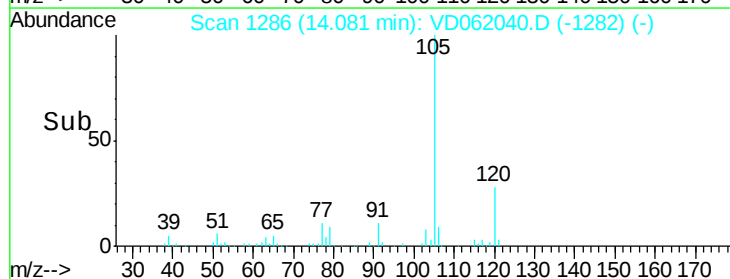
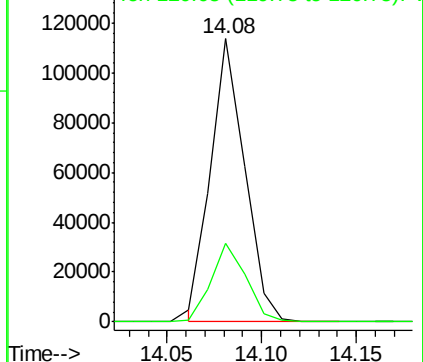
105 100

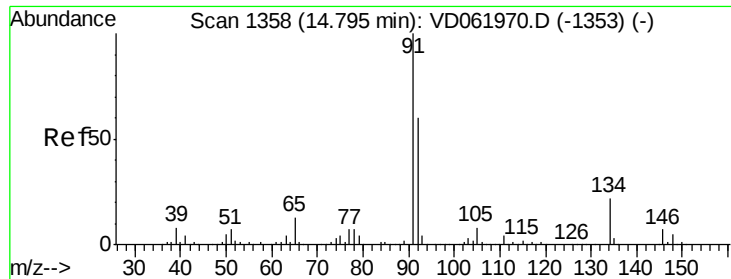
120 27.9 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#89

n-Butylbenzene

Concen: 3.307 ug/l

RT: 14.78 min Scan# 1357

Delta R.T. -0.02 min

Lab File: VD062040.D

Acq: 25 Apr 2019 15:51

Instrument :

MSVOA_D

ClientSampleId :

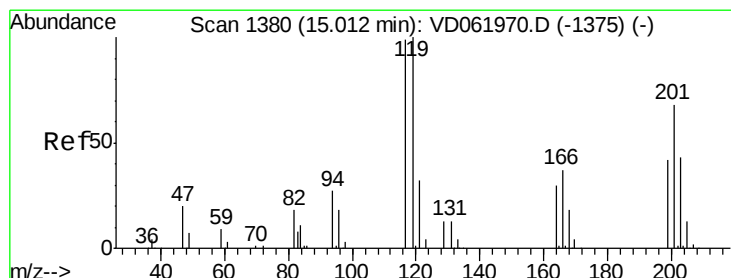
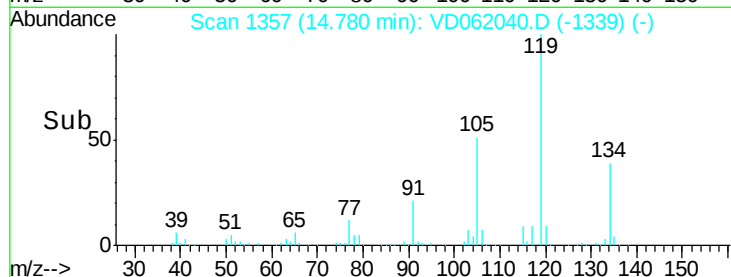
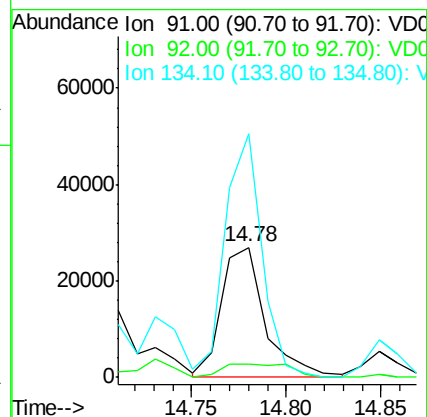
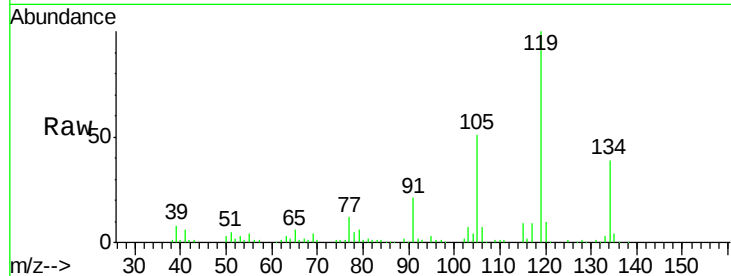
Tot Ion: 91 Resp: 43542

Ion Ratio Lower Upper

91 100

92 10.1 30.3 91.0#

134 187.1 14.5 43.6#



#90

Hexachloroethane

Concen: 13.999 ug/l

RT: 15.10 min Scan# 1389

Delta R.T. 0.09 min

Lab File: VD062040.D

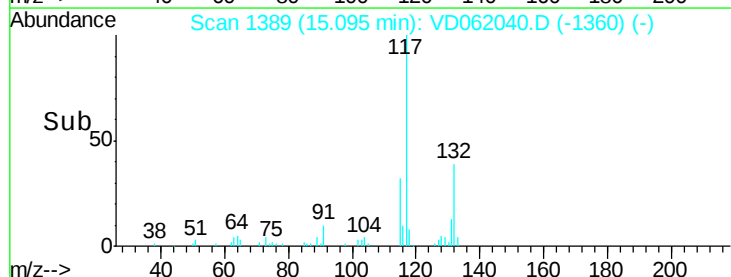
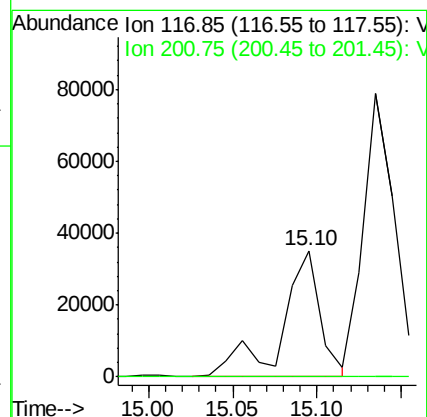
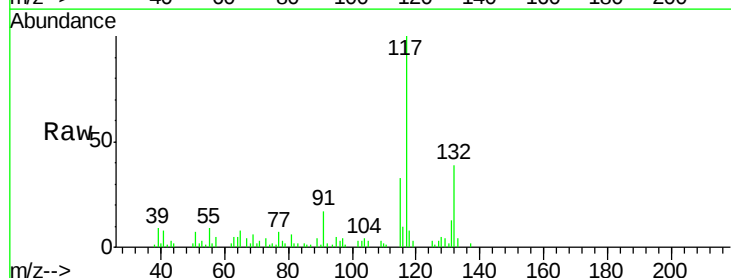
Acq: 25 Apr 2019 15:51

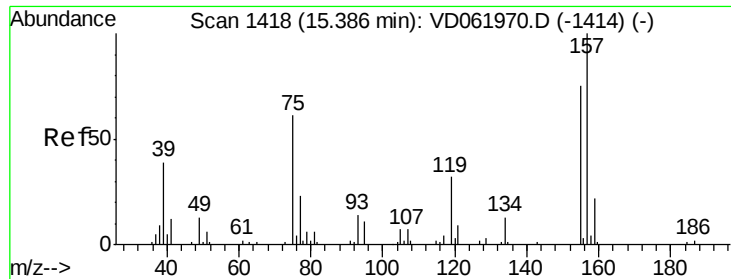
Tgt Ion: 117 Resp: 55516

Ion Ratio Lower Upper

117 100

201 0.0 30.2 90.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 3.704 ug/l

RT: 15.37 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VD062040.D

Acq: 25 Apr 2019 15:51

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 535

Ion Ratio Lower Upper

75 100

155 0.0 55.3 165.8#

157 0.0 67.8 203.2#

