

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032919\
 Data File : VD061440.D
 Acq On : 29 Mar 2019 20:05
 Operator : VA/AP
 Sample : K1685-13
 Misc : 7.91g/5ml/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 29 23:47:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	462726	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.21	114	789532	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	650154	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.51	152	231205	50.00	ug/l	0.00

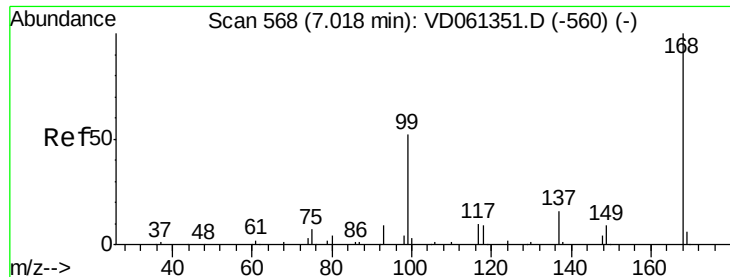
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.45	65	193404	48.93	ug/l	0.01
Spiked Amount	50.000		Recovery	=	97.86%	
35) Dibromofluoromethane	6.92	113	310420	51.45	ug/l	0.02
Spiked Amount	50.000		Recovery	=	102.90%	
50) Toluene-d8	10.41	98	657108	45.41	ug/l	0.02
Spiked Amount	50.000		Recovery	=	90.82%	
62) 4-Bromofluorobenzene	13.56	95	246279	44.38	ug/l	0.01
Spiked Amount	50.000		Recovery	=	88.76%	

Target Compounds

						Qvalue
16) Acetone	3.21	43	57239	56.330	ug/l	95
18) Methyl Acetate	3.64	43	3102	1.452	ug/l #	55
20) Methylene Chloride	3.81	84	47966	6.766	ug/l	99
31) Cyclohexane	7.03	56	7494	1.101	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	33378	4.844	ug/l #	45
38) Carbon Tetrachloride	7.04	117	44844	5.663	ug/l #	13
51) 4-Methyl-2-Pentanone	10.40	43	2859	1.096	ug/l #	1
52) Toluene	10.51	92	44318	4.200	ug/l	99
68) m/p-Xylenes	12.66	106	8972	1.168	ug/l	96
74) N-amyl acetate	13.21	43	5557	1.240	ug/l #	39
76) 1,2,3-Trichloropropane	13.56	75	80960	24.241	ug/l #	45
78) n-propylbenzene	13.78	91	27584	1.401	ug/l	98
79) 2-Chlorotoluene	13.78	91	27584	2.580	ug/l #	36
81) trans-1,4-Dichloro-2-buten	13.56	75	91442	89.798	ug/l #	18
82) 4-Chlorotoluene	13.78	91	26190	2.253	ug/l #	36
85) sec-Butylbenzene	14.37	105	32366	1.953	ug/l	98
89) n-Butylbenzene	14.80	91	41170	3.200	ug/l	99
90) Hexachloroethane	15.05	117	16239	4.101	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	15.34	75	448	1.125	ug/l #	1
95) Naphthalene	16.13	128	60815	13.218	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.02 min

Lab File: VD061440.D

Acq: 29 Mar 2019 20:05

Instrument :

MSVOA_D

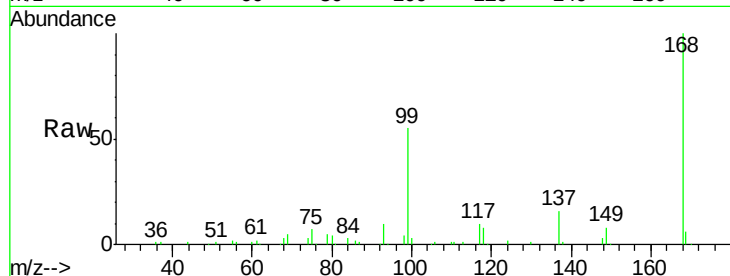
ClientSampleId :

Tot Ion:168 Resp: 462726

Ion Ratio Lower Upper

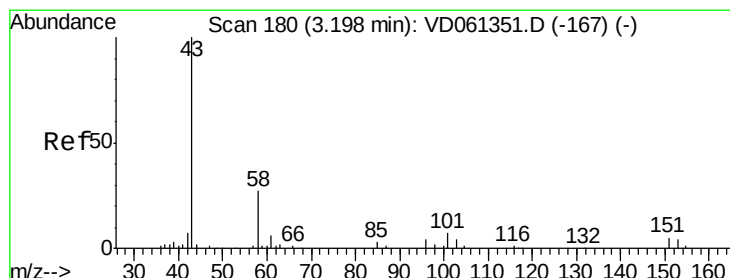
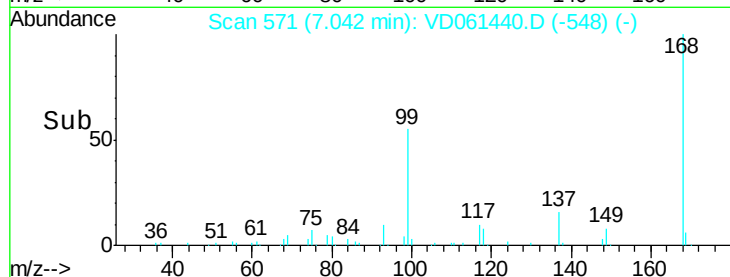
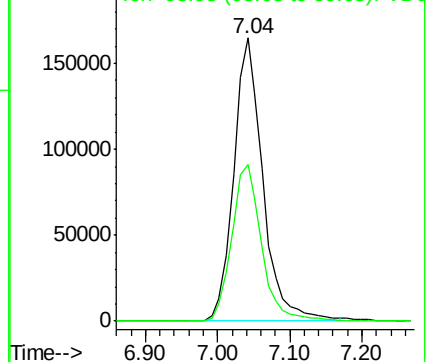
168 100

99 55.4 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 56.330 ug/l

RT: 3.21 min Scan# 182

Delta R.T. 0.01 min

Lab File: VD061440.D

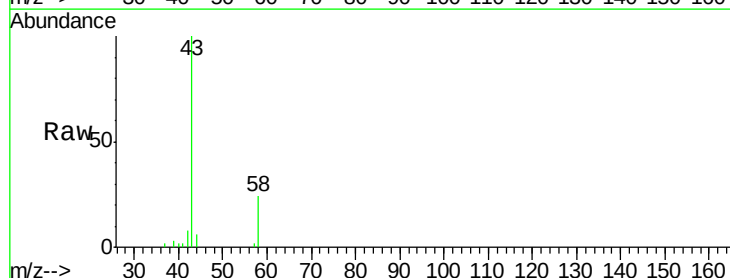
Acq: 29 Mar 2019 20:05

Tgt Ion: 43 Resp: 57239

Ion Ratio Lower Upper

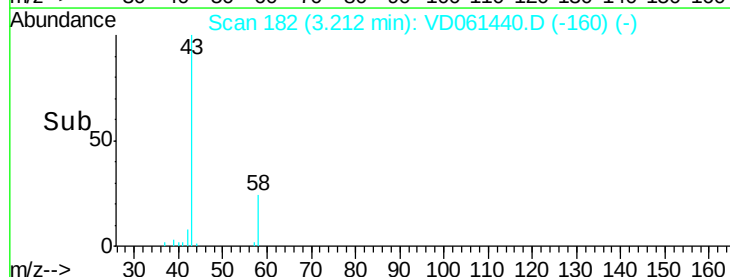
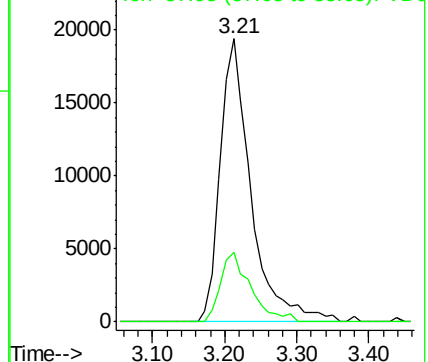
43 100

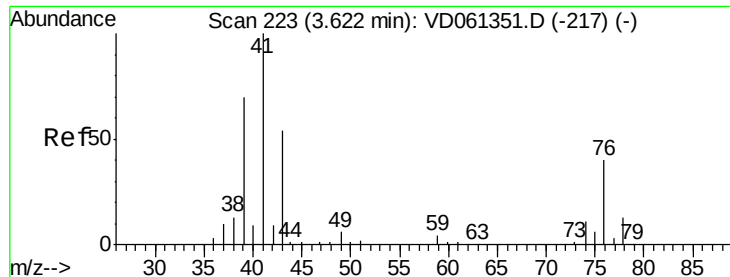
58 24.4 21.5 32.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

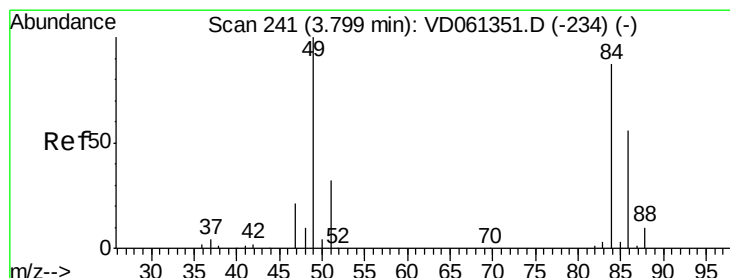
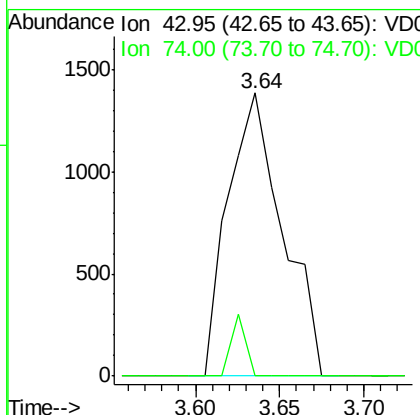
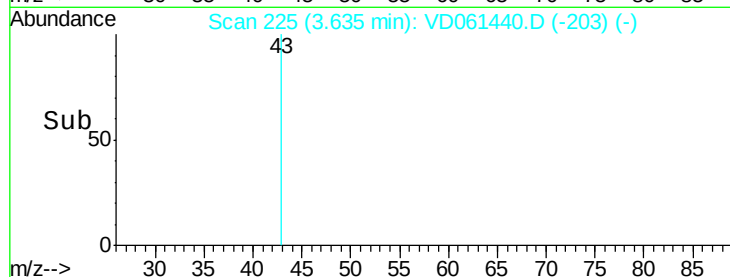
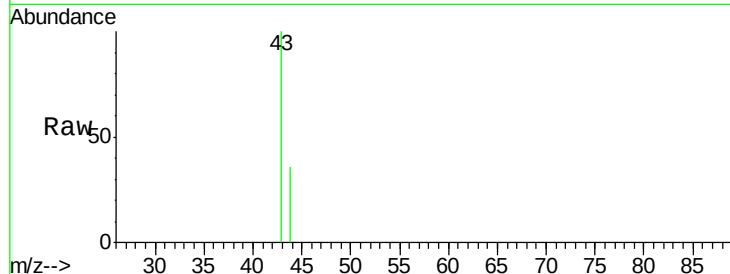




#18
Methyl Acetate
Concen: 1.452 ug/l
RT: 3.64 min Scan# 225
Delta R.T. 0.01 min
Lab File: VD061440.D
Acq: 29 Mar 2019 20:05

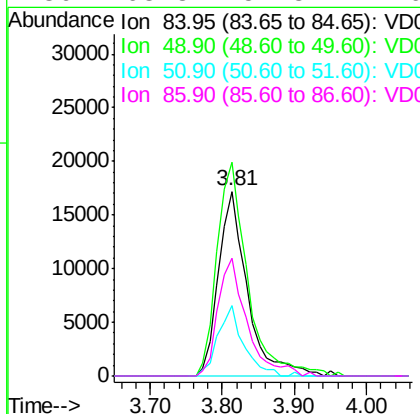
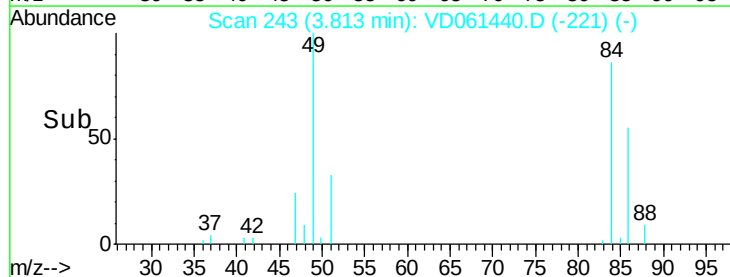
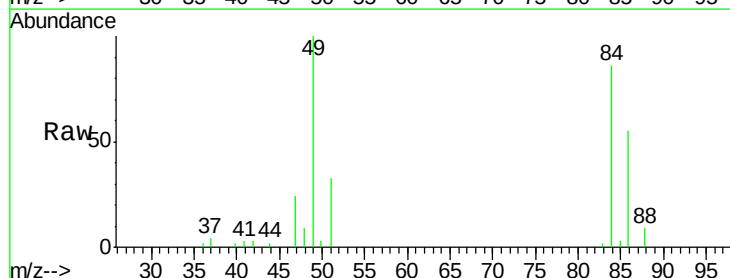
Instrument :
MSVOA_D
ClientSampled :

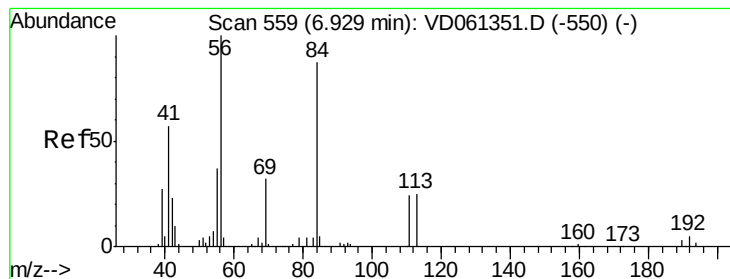
Tot Ion: 43 Resp: 3102
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#



#20
Methylene Chloride
Concen: 6.766 ug/l
RT: 3.81 min Scan# 243
Delta R.T. 0.01 min
Lab File: VD061440.D
Acq: 29 Mar 2019 20:05

Tgt Ion: 84 Resp: 47966
Ion Ratio Lower Upper
84 100
49 115.7 91.8 137.8
51 37.8 29.8 44.8
86 63.8 51.8 77.6





#31

Cyclohexane

Concen: 1.101 ug/l

RT: 7.03 min Scan# 570

Delta R.T. 0.10 min

Lab File: VD061440.D

Acq: 29 Mar 2019 20:05

Instrument :
MSVOA_D
ClientSampleId :

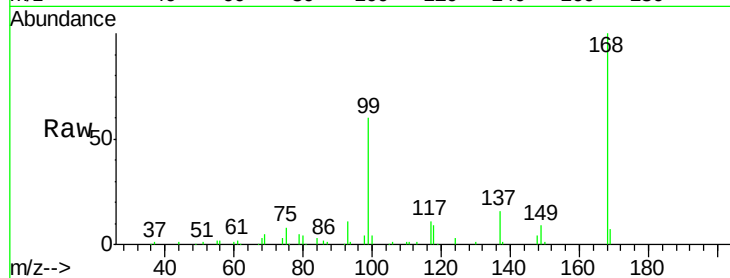
Tot Ion: 56 Resp: 7494

Ion Ratio Lower Upper

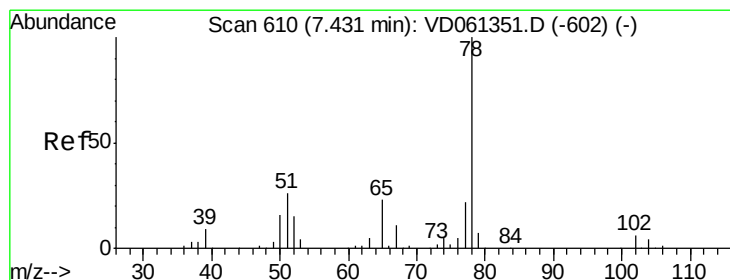
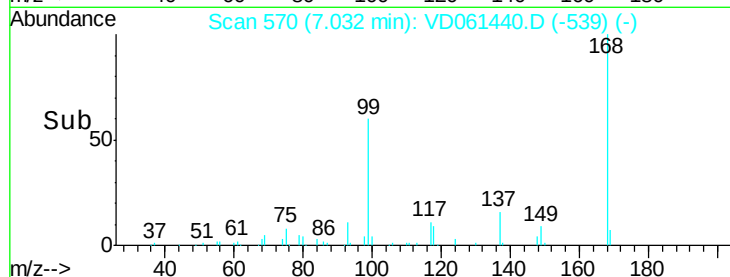
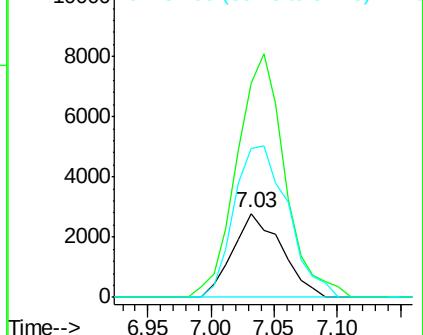
56 100

69 254.5 25.7 38.5#

84 177.4 70.6 105.8#



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



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.01 min

Lab File: VD061440.D

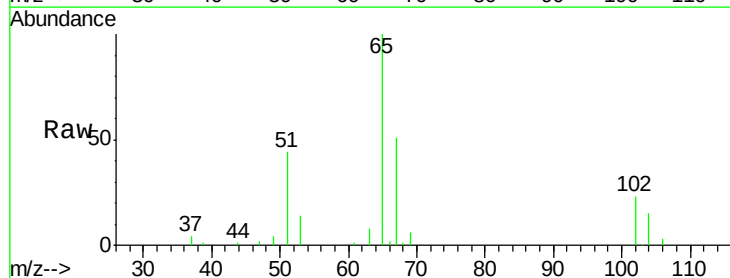
Acq: 29 Mar 2019 20:05

Tgt Ion: 65 Resp: 193404

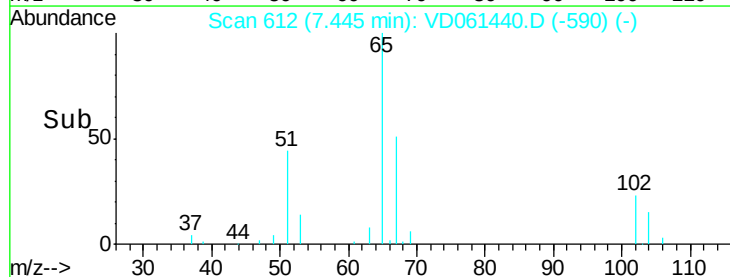
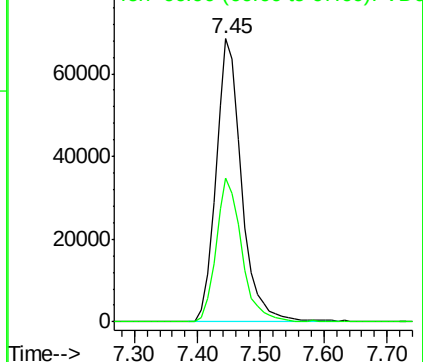
Ion Ratio Lower Upper

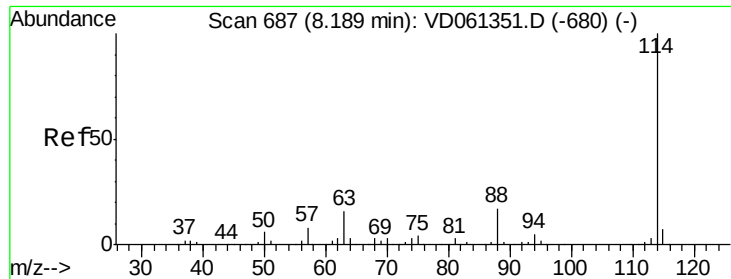
65 100

67 50.9 0.0 99.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

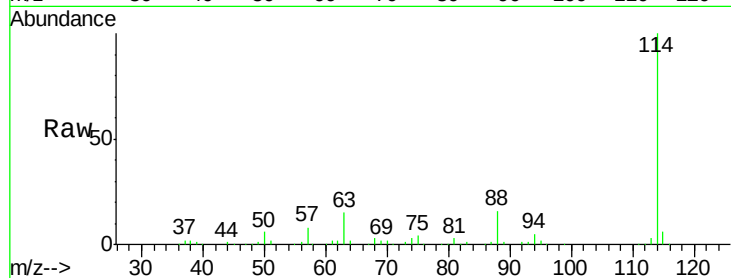




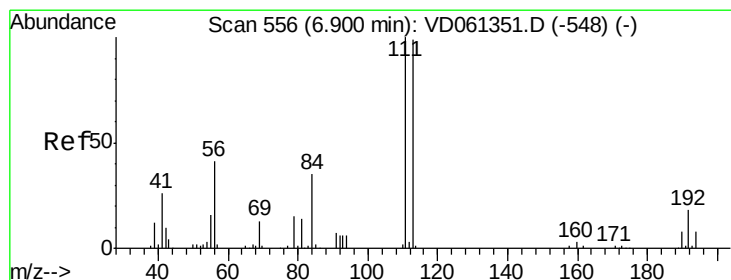
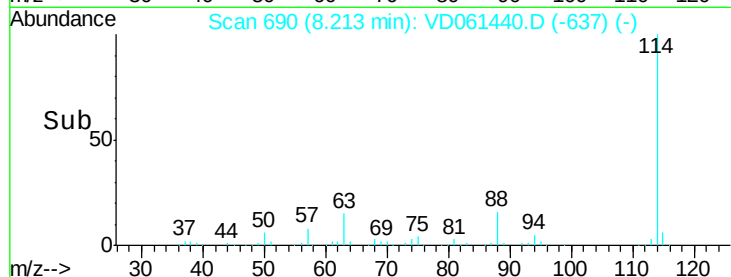
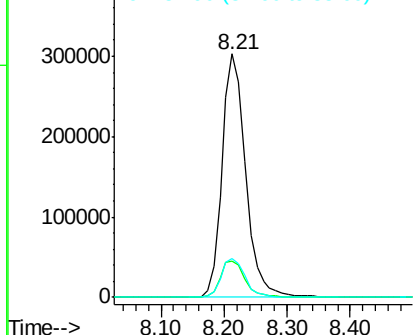
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 690
 Delta R.T. 0.02 min
 Lab File: VD061440.D
 Acq: 29 Mar 2019 20:05

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 789532
 Ion Ratio Lower Upper
 114 100
 63 14.9 0.0 31.6
 88 16.1 0.0 33.4

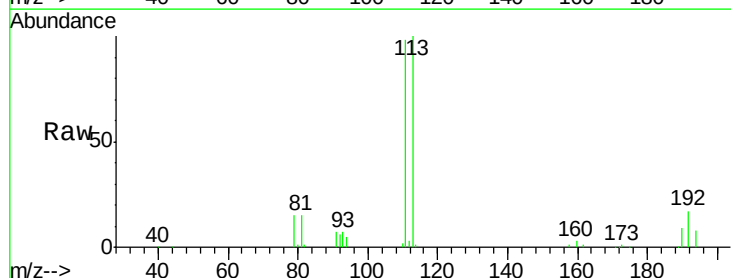


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

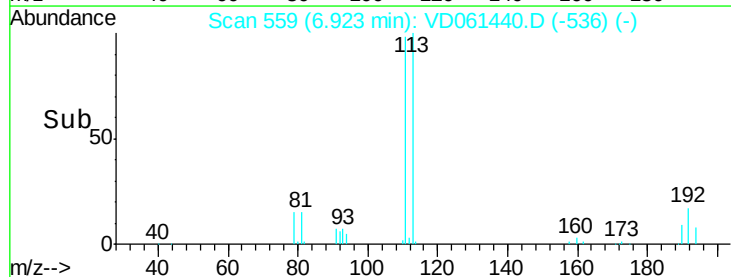
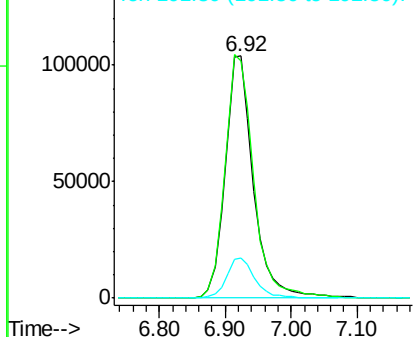


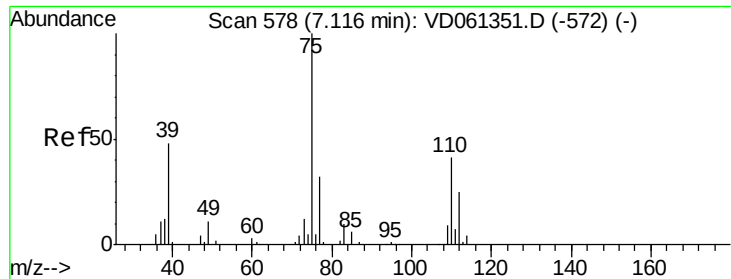
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.92 min Scan# 559
 Delta R.T. 0.02 min
 Lab File: VD061440.D
 Acq: 29 Mar 2019 20:05

Tgt Ion:113 Resp: 310420
 Ion Ratio Lower Upper
 113 100
 111 97.8 81.0 121.6
 192 16.8 14.4 21.6



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

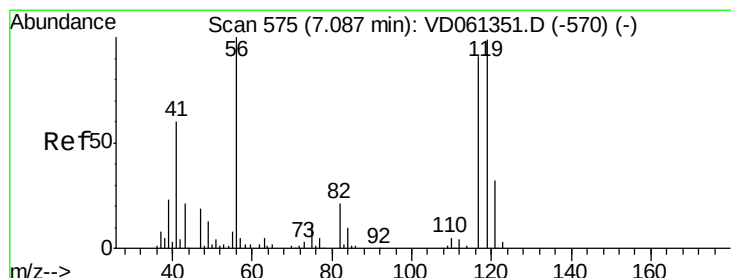
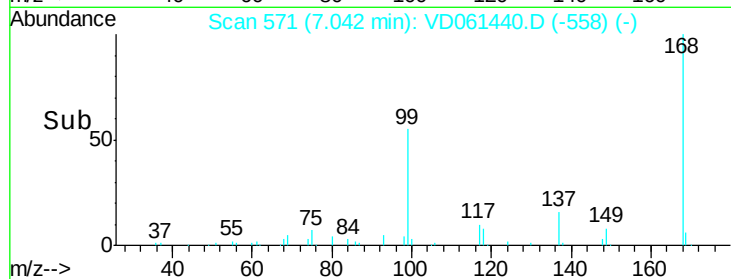
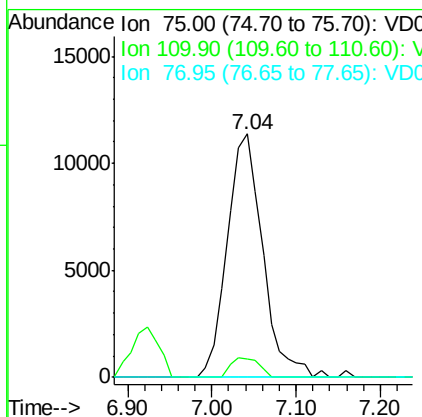
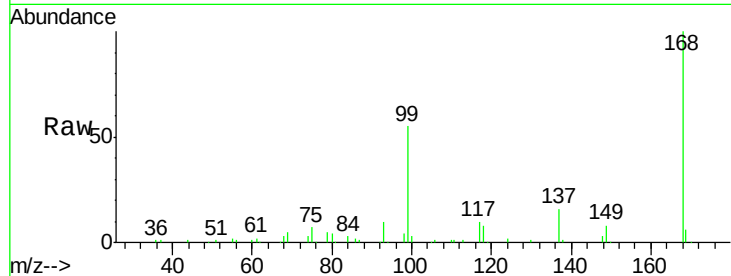




#36
 1,1-Dichloropropene
 Concen: 4.844 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.07 min
 Lab File: VD061440.D
 Acq: 29 Mar 2019 20:05

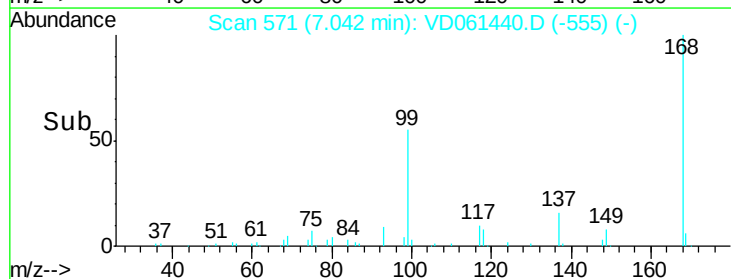
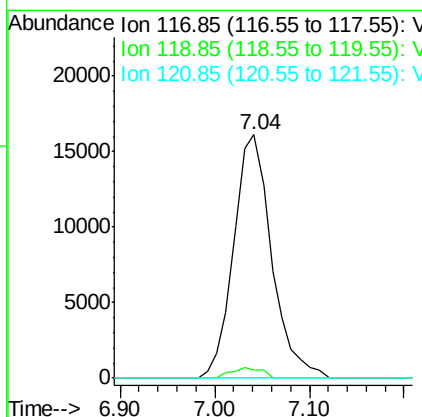
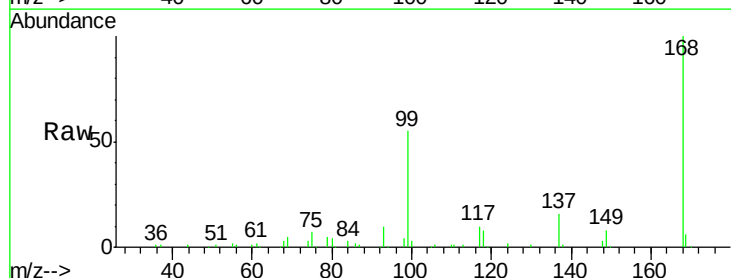
Instrument :
 MSVOA_D
 ClientSampleId :

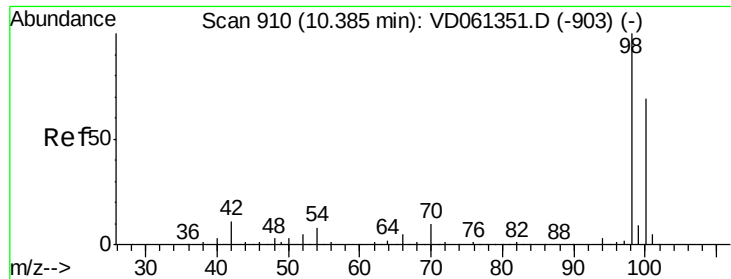
Tot Ion: 75 Resp: 33378
 Ion Ratio Lower Upper
 75 100
 110 7.3 20.4 61.3#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 5.663 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.05 min
 Lab File: VD061440.D
 Acq: 29 Mar 2019 20:05

Tgt Ion: 117 Resp: 44844
 Ion Ratio Lower Upper
 117 100
 119 3.5 80.1 120.1#
 121 0.0 25.6 38.4#

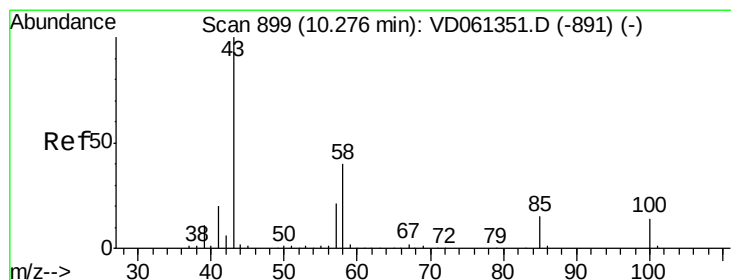
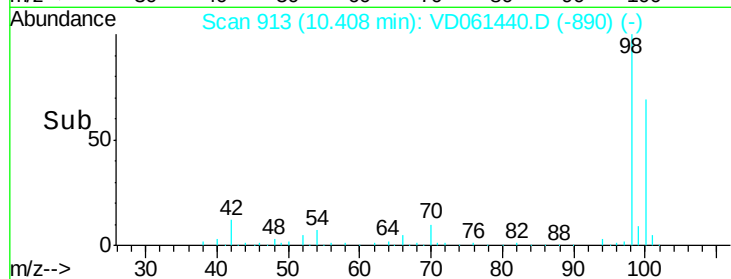
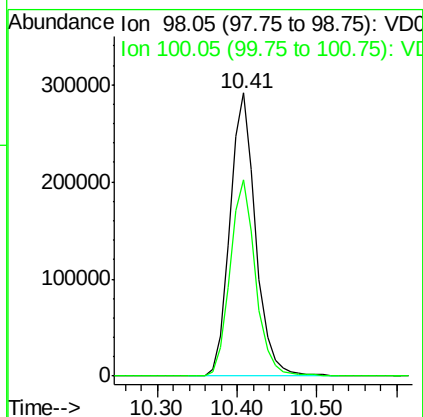
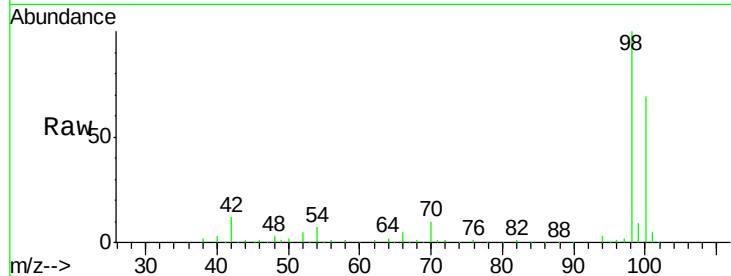




#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.02 min
Lab File: VD061440.D
Acq: 29 Mar 2019 20:05

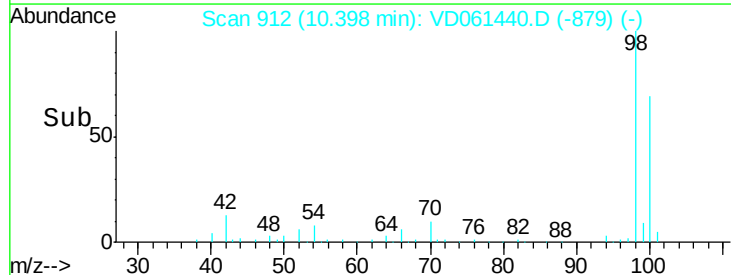
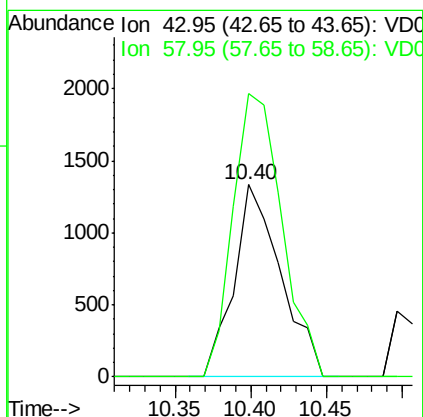
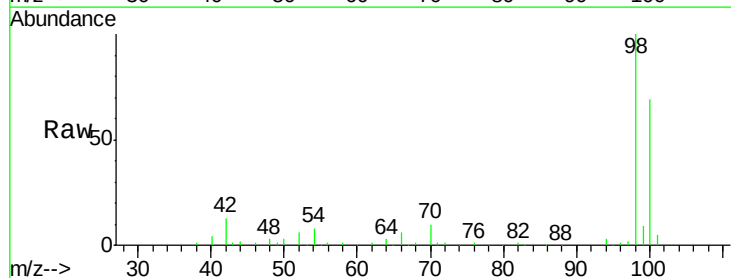
Instrument :
MSVOA_D
ClientSampleId :

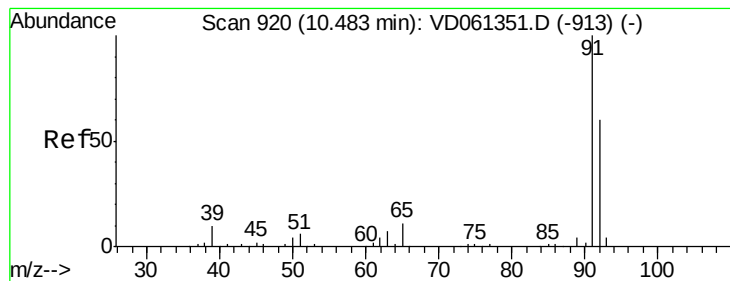
Tot Ion: 98 Resp: 657108
Ion Ratio Lower Upper
98 100
100 69.2 56.2 84.2



#51
4-Methyl-2-Pentanone
Concen: 1.096 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.12 min
Lab File: VD061440.D
Acq: 29 Mar 2019 20:05

Tgt Ion: 43 Resp: 2859
Ion Ratio Lower Upper
43 100
58 147.4 31.8 47.8#





#52

Toluene

Concen: 4.200 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.02 min

Lab File: VD061440.D

Acq: 29 Mar 2019 20:05

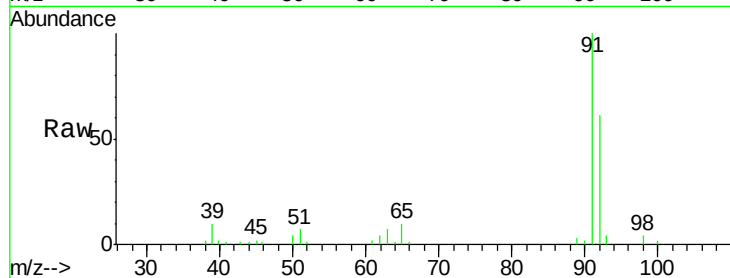
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 92 Resp: 44318

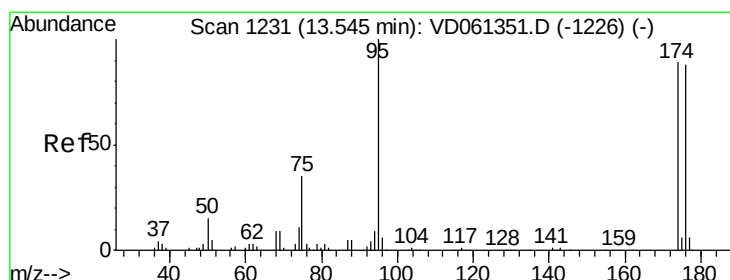
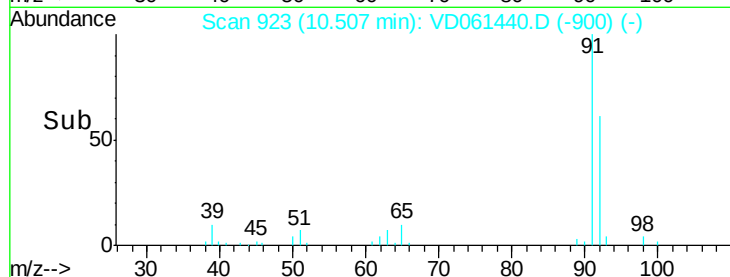
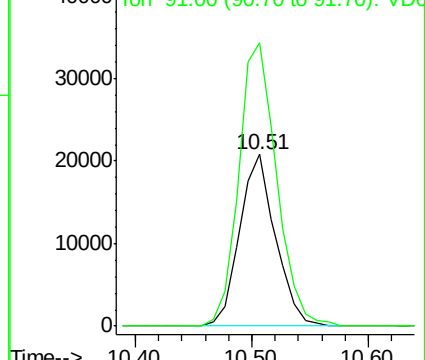
Ion Ratio Lower Upper

92 100

91 164.6 133.3 199.9



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD061440.D

Acq: 29 Mar 2019 20:05

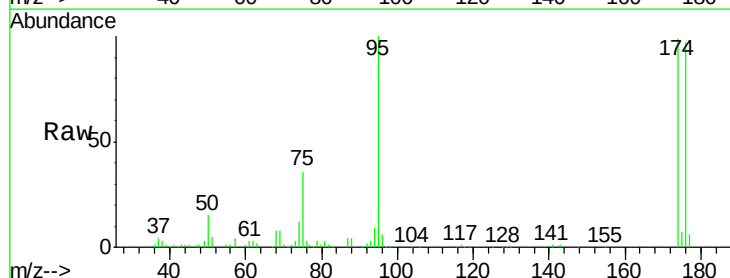
Tgt Ion: 95 Resp: 246279

Ion Ratio Lower Upper

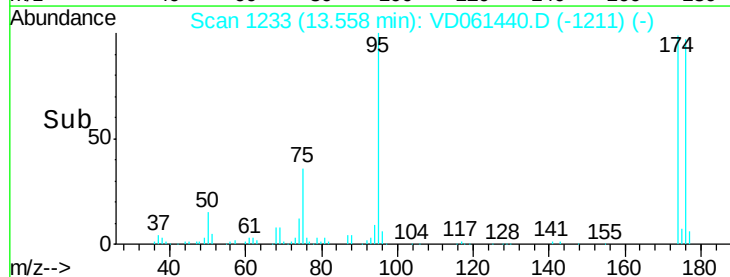
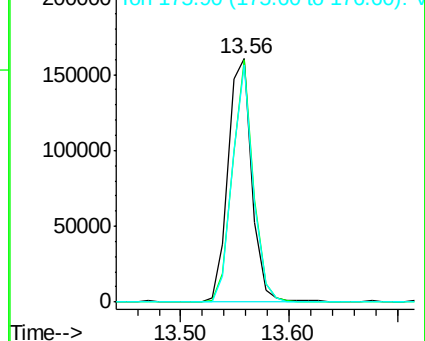
95 100

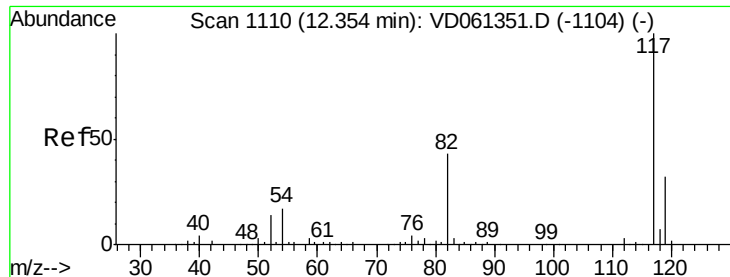
174 99.3 0.0 178.0

176 97.4 0.0 175.0



Abundance Ion 95.00 (94.70 to 95.70): VDC
Ion 173.90 (173.60 to 174.60): VDC
Ion 175.90 (175.60 to 176.60): VDC

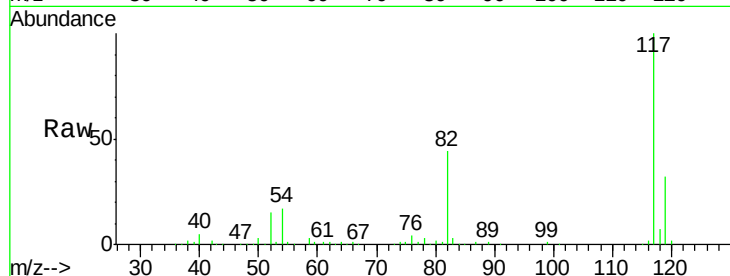




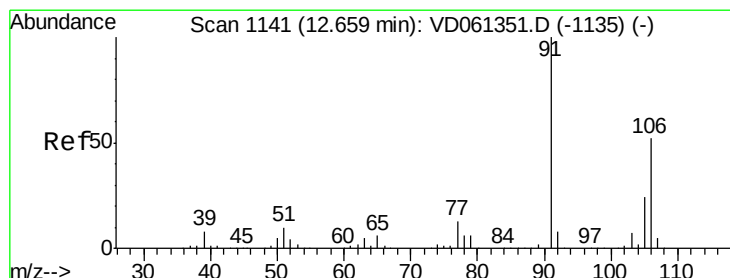
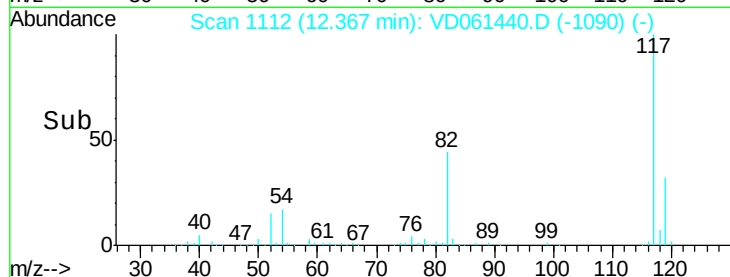
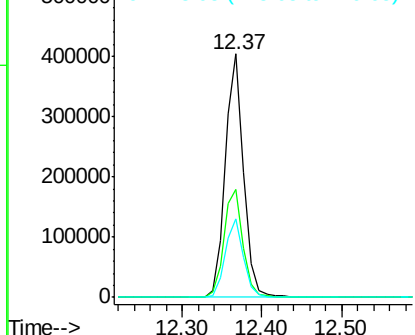
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD061440.D
Acq: 29 Mar 2019 20:05

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 650154
Ion Ratio Lower Upper
117 100
82 44.4 34.4 51.6
119 32.2 25.8 38.6

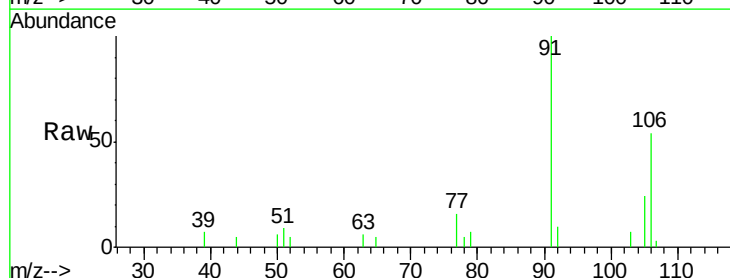


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): VDC
Ion 118.95 (118.65 to 119.65): V

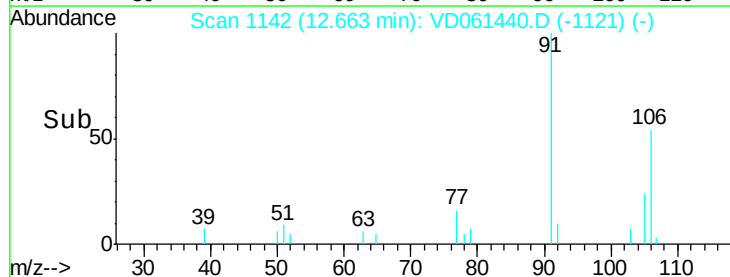
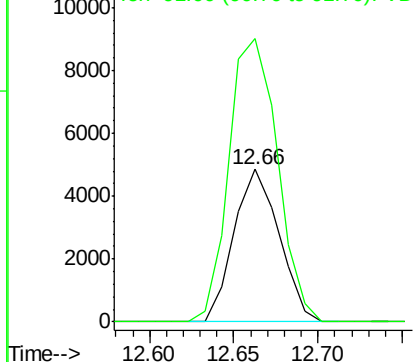


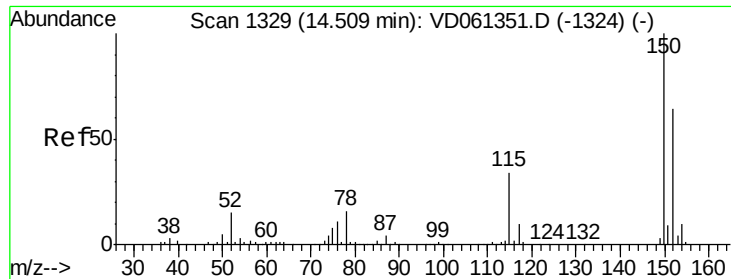
#68
m/p-Xylenes
Concen: 1.168 ug/l
RT: 12.66 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VD061440.D
Acq: 29 Mar 2019 20:05

Tgt Ion:106 Resp: 8972
Ion Ratio Lower Upper
106 100
91 185.9 153.1 229.7



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

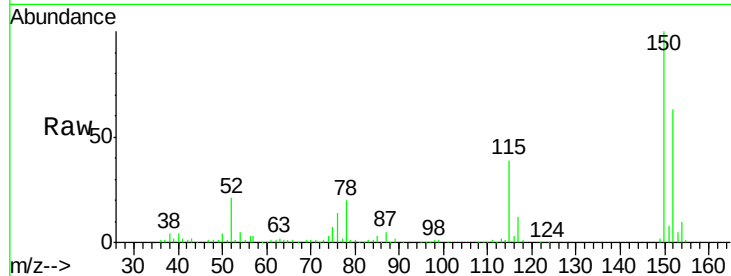




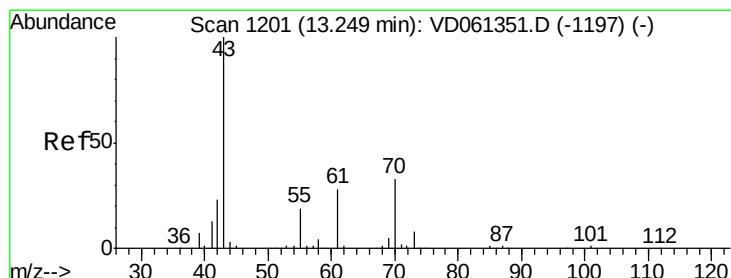
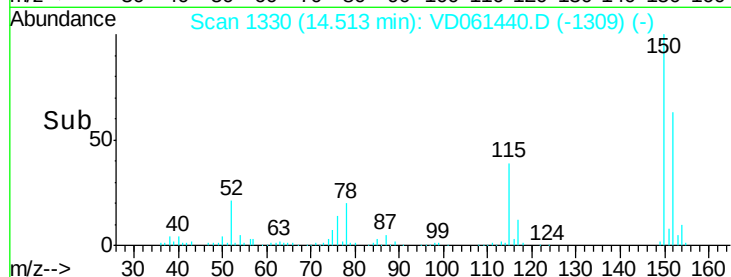
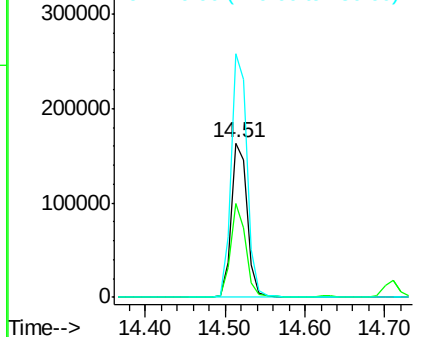
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.51 min Scan# 1330
 Delta R.T. 0.00 min
 Lab File: VD061440.D
 Acq: 29 Mar 2019 20:05

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:152 Resp: 231205
 Ion Ratio Lower Upper
 152 100
 115 61.1 26.9 80.6
 150 158.1 0.0 318.0

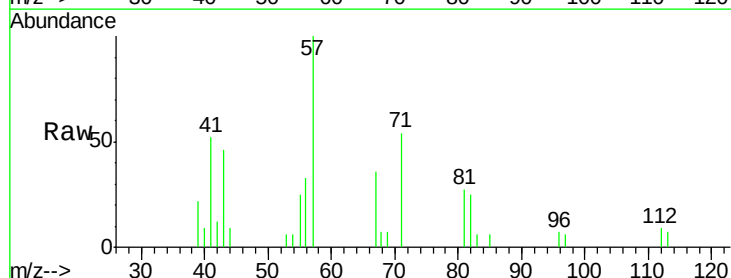


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 149.90 (149.60 to 150.60): V

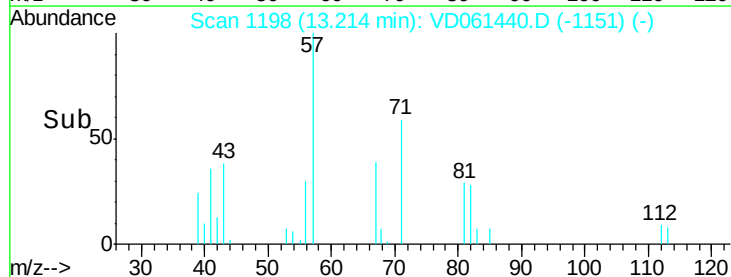
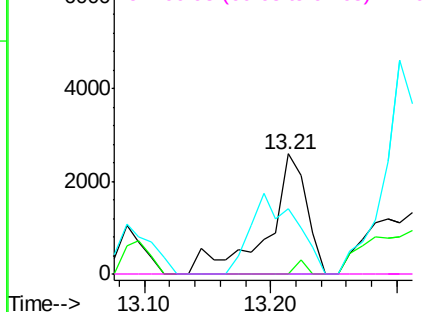


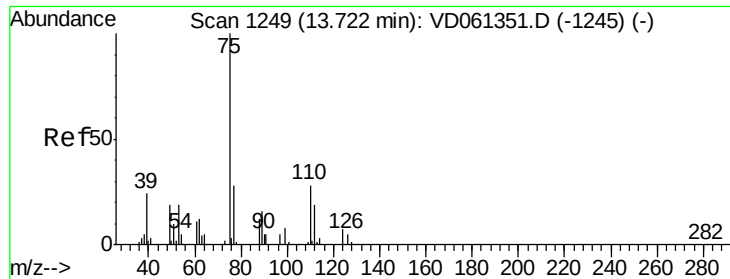
#74
 N-ethyl acetate
 Concen: 1.240 ug/l
 RT: 13.21 min Scan# 1198
 Delta R.T. -0.04 min
 Lab File: VD061440.D
 Acq: 29 Mar 2019 20:05

Tgt Ion: 43 Resp: 5557
 Ion Ratio Lower Upper
 43 100
 70 0.0 26.6 40.0#
 55 54.9 15.4 23.2#
 61 0.0 22.2 33.4#



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

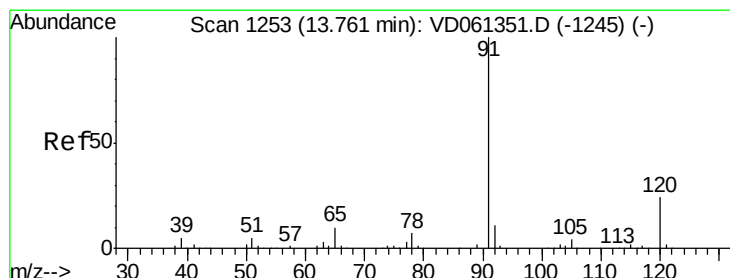
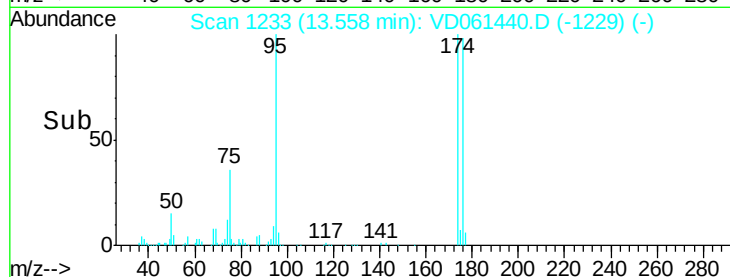
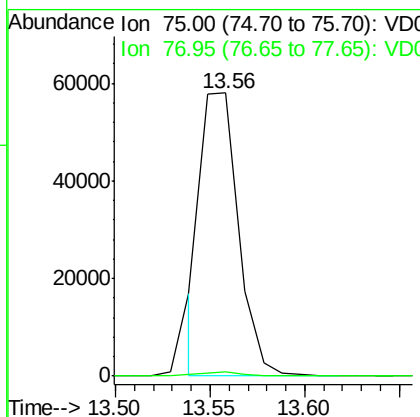
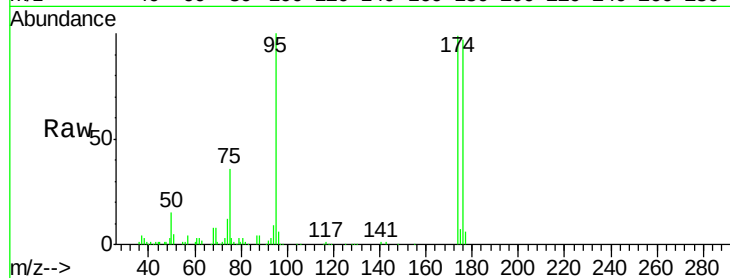




#76
 1,2,3-Trichloropropane
 Concen: 24.241 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. -0.16 min
 Lab File: VD061440.D
 Acq: 29 Mar 2019 20:05

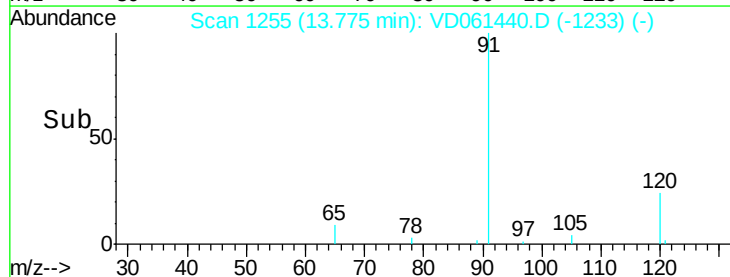
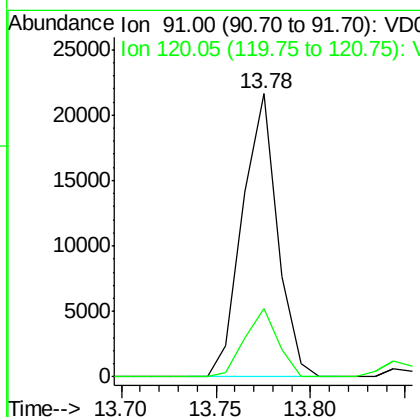
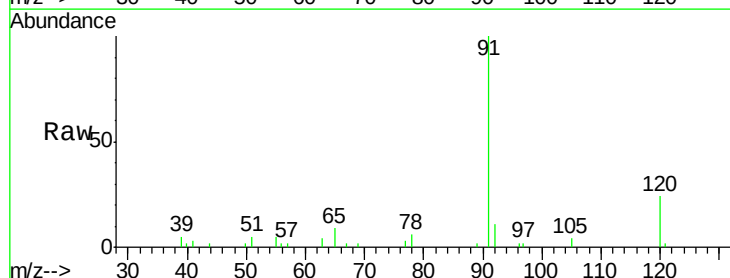
Instrument :
 MSVOA_D
 ClientSampleId :

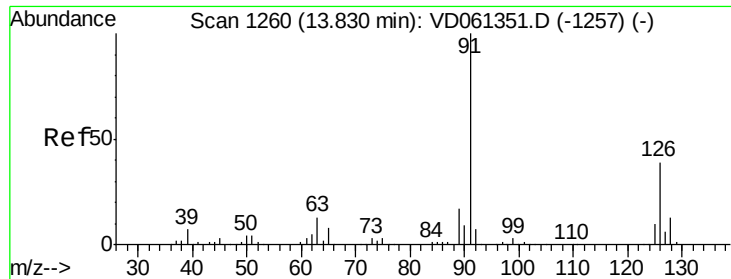
Tot Ion: 75 Resp: 80960
 Ion Ratio Lower Upper
 75 100
 77 1.4 16.2 48.5#



#78
 n-propylbenzene
 Concen: 1.401 ug/l
 RT: 13.78 min Scan# 1255
 Delta R.T. 0.01 min
 Lab File: VD061440.D
 Acq: 29 Mar 2019 20:05

Tgt Ion: 91 Resp: 27584
 Ion Ratio Lower Upper
 91 100
 120 24.3 11.8 35.3





#79

2-Chlorotoluene

Concen: 2.580 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. -0.06 min

Lab File: VD061440.D

Acq: 29 Mar 2019 20:05

Instrument :

MSVOA_D

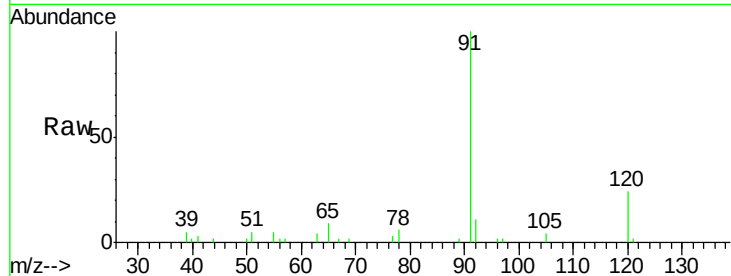
ClientSampleId :

Tot Ion: 91 Resp: 27584

Ion Ratio Lower Upper

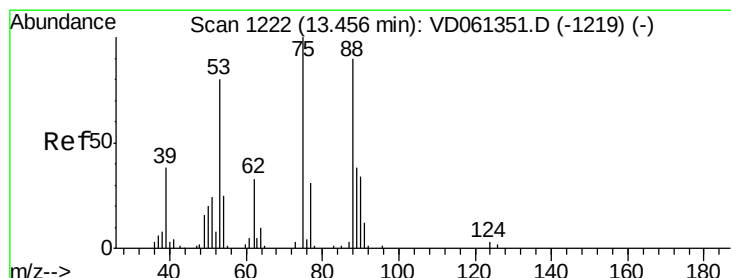
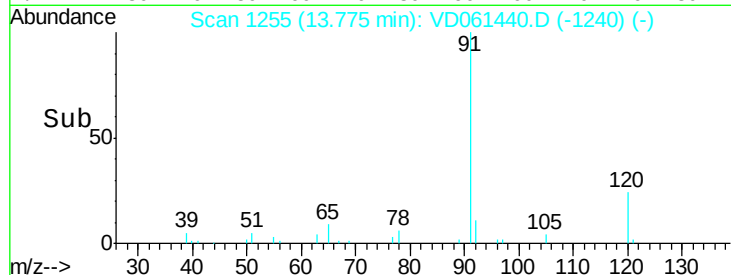
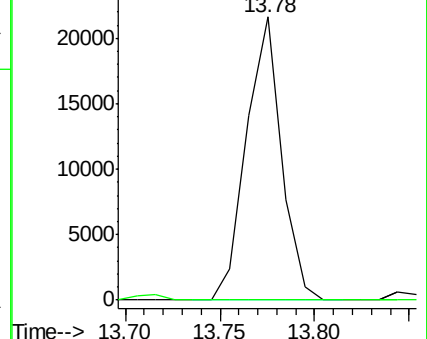
91 100

126 0.0 19.4 58.2#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 89.798 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.10 min

Lab File: VD061440.D

Acq: 29 Mar 2019 20:05

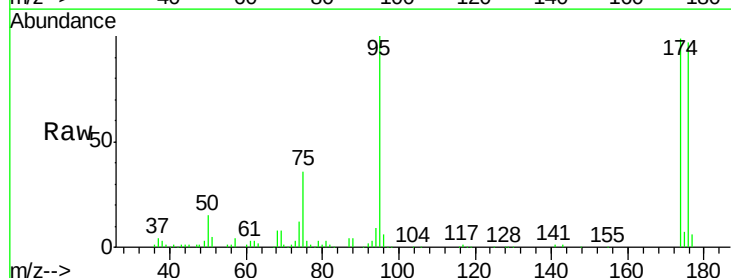
Tgt Ion: 75 Resp: 91442

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

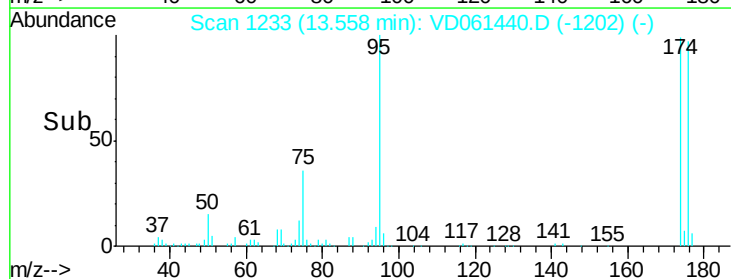
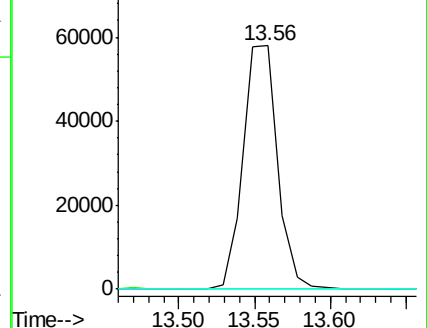
89 0.0 30.5 45.7#

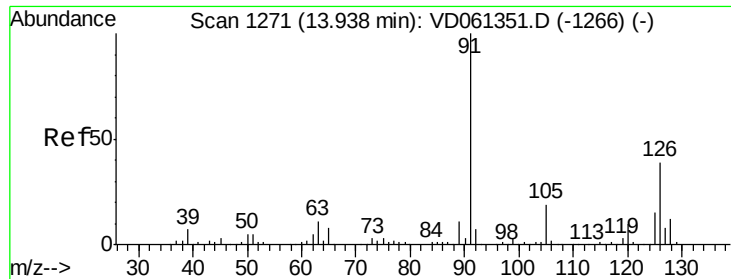


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

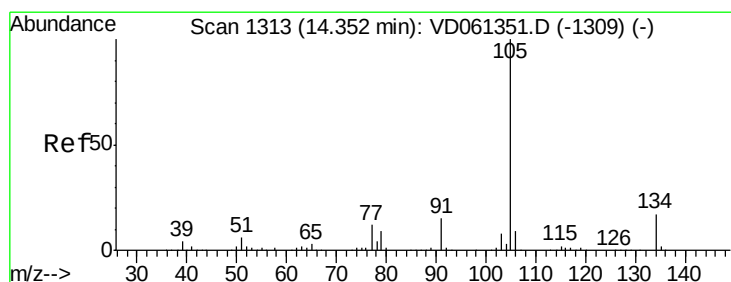
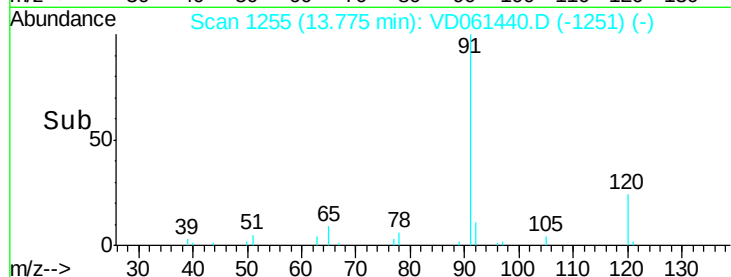
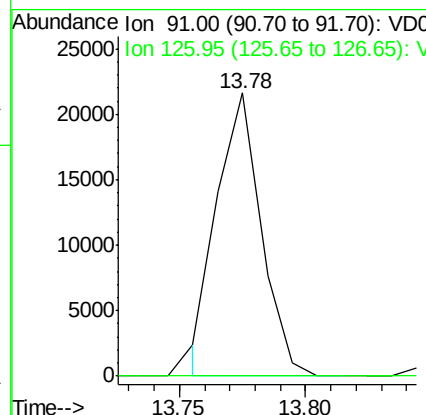
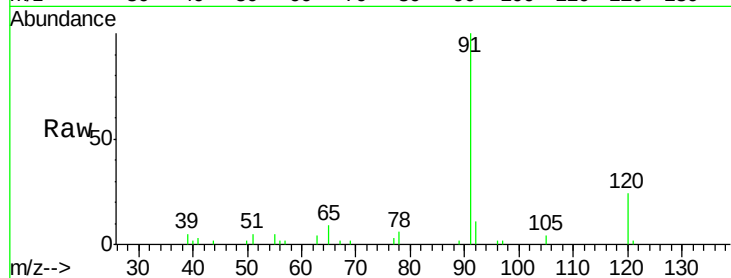




#82
4-Chlorotoluene
Concen: 2.253 ug/l
RT: 13.78 min Scan# 1255
Delta R.T. -0.16 min
Lab File: VD061440.D
Acq: 29 Mar 2019 20:05

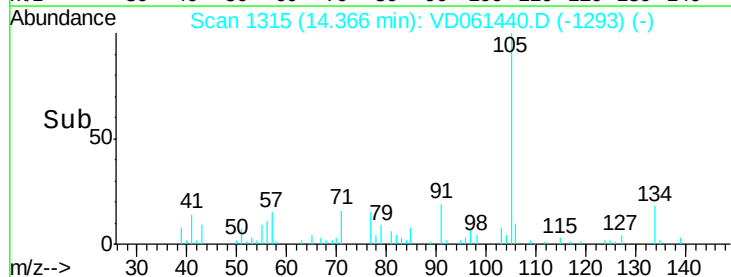
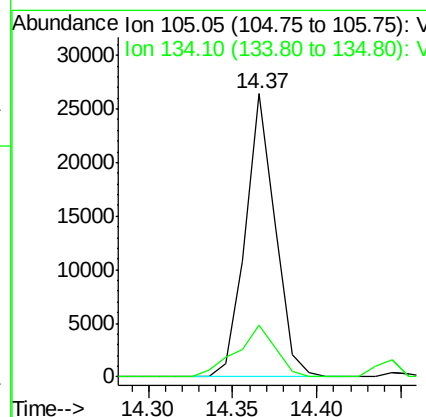
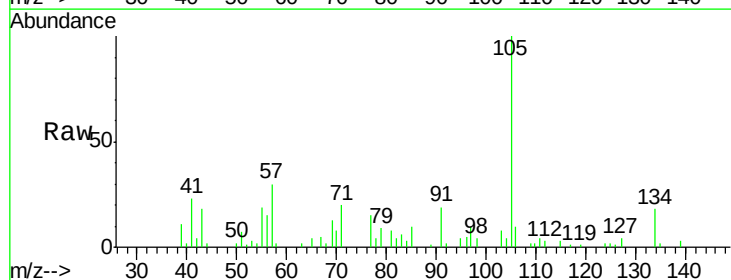
Instrument :
MSVOA_D
ClientSampleID :

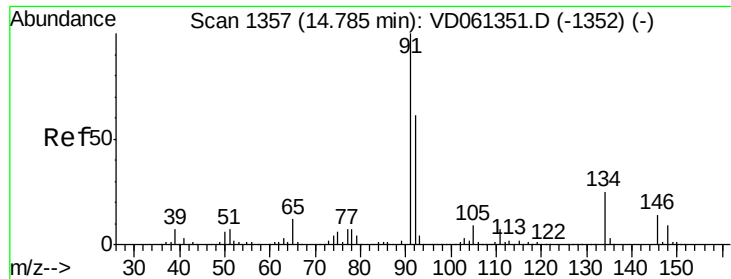
Tot Ion: 91 Resp: 26190
Ion Ratio Lower Upper
91 100
126 0.0 19.6 58.8#



#85
sec-Butylbenzene
Concen: 1.953 ug/l
RT: 14.37 min Scan# 1315
Delta R.T. 0.01 min
Lab File: VD061440.D
Acq: 29 Mar 2019 20:05

Tgt Ion: 105 Resp: 32366
Ion Ratio Lower Upper
105 100
134 18.5 8.7 26.1





#89

n-Butylbenzene

Concen: 3.200 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.01 min

Lab File: VD061440.D

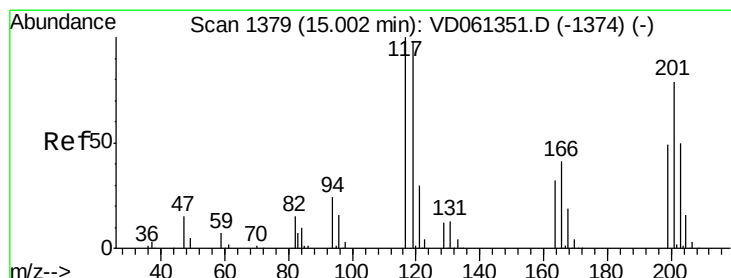
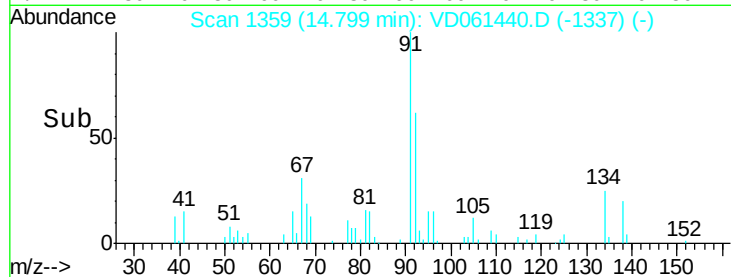
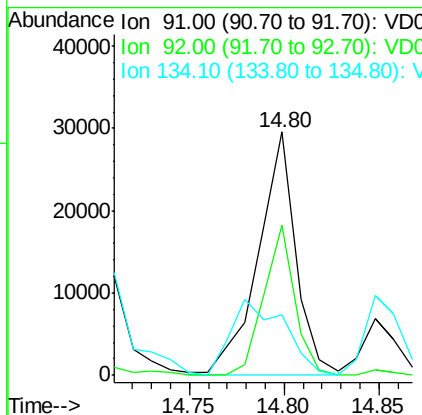
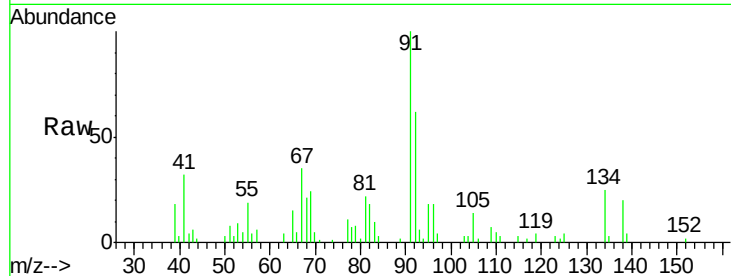
Acq: 29 Mar 2019 20:05

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion:	91	Resp:	41170
Ion	Ratio	Lower	Upper
91	100		
92	61.9	30.3	91.0
134	24.8	12.4	37.0



#90

Hexachloroethane

Concen: 4.101 ug/l

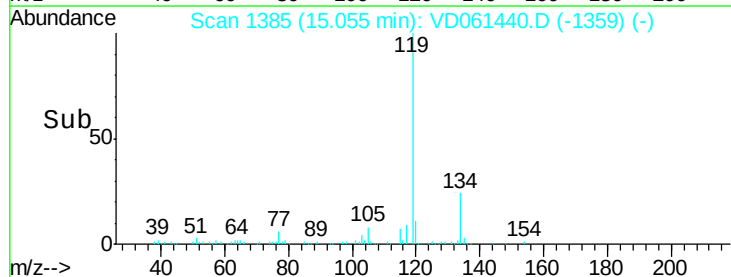
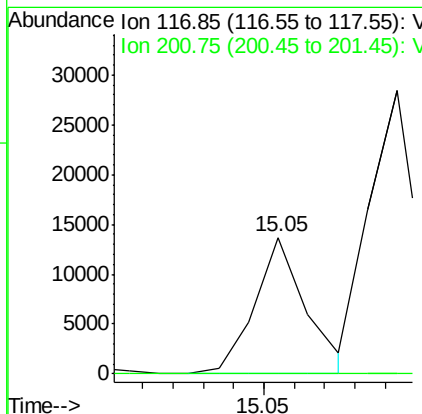
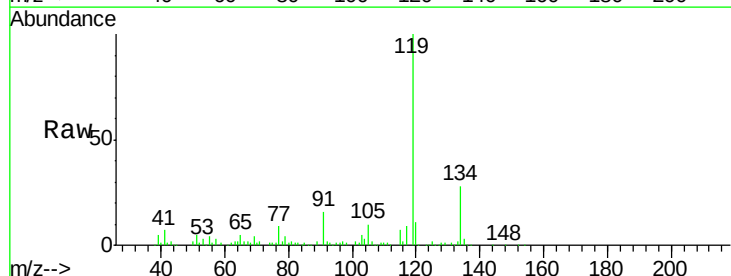
RT: 15.05 min Scan# 1385

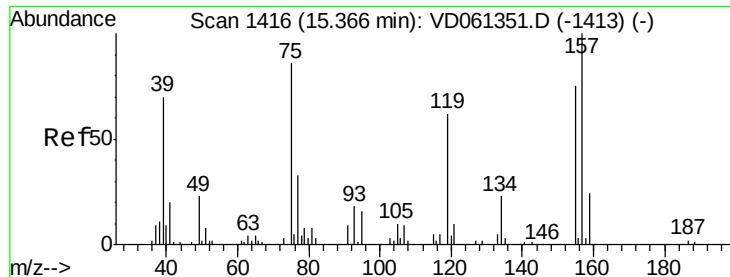
Delta R.T. 0.05 min

Lab File: VD061440.D

Acq: 29 Mar 2019 20:05

Tgt Ion:	117	Resp:	16239
Ion	Ratio	Lower	Upper
117	100		
201	0.0	39.6	119.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.125 ug/l

RT: 15.34 min Scan# 1414

Delta R.T. -0.03 min

Lab File: VD061440.D

Acq: 29 Mar 2019 20:05

Instrument :

MSVOA_D

ClientSampleId :

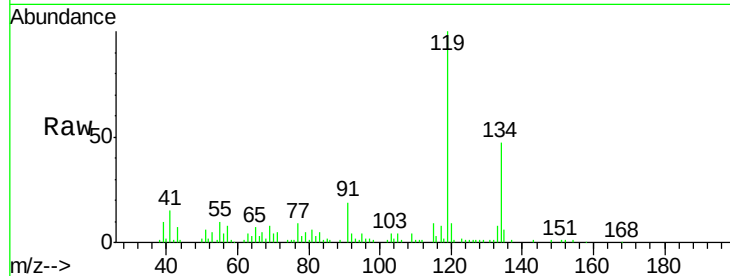
Tot Ion: 75 Resp: 448

Ion Ratio Lower Upper

75 100

155 0.0 43.6 130.9#

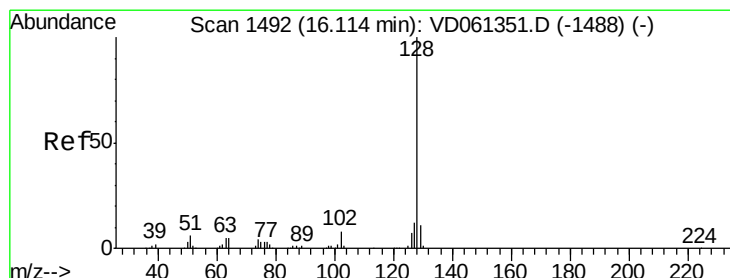
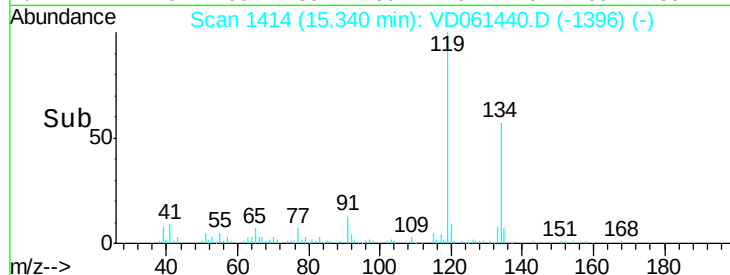
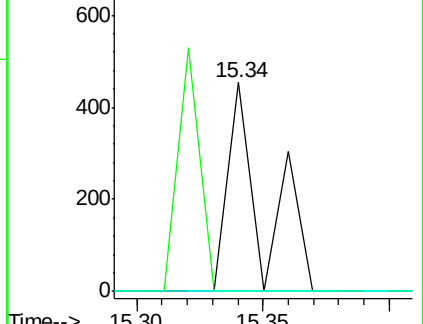
157 0.0 58.5 175.3#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V



#95

Naphthalene

Concen: 13.218 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VD061440.D

Acq: 29 Mar 2019 20:05

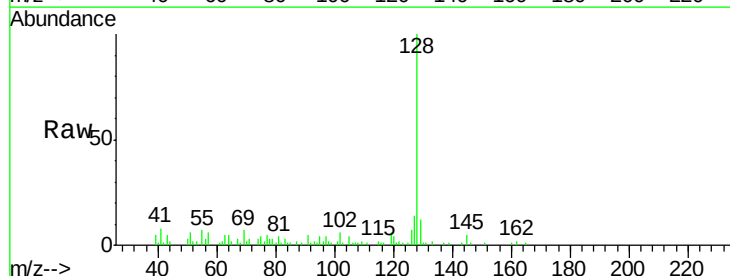
Tgt Ion: 128 Resp: 60815

Ion Ratio Lower Upper

128 100

127 13.8 9.9 14.9

129 11.6 8.9 13.3



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

