

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072120\
 Data File : VD065990.D
 Acq On : 21 Jul 2020 19:51
 Operator : VA/SY
 Sample : L3323-02
 Misc : 5.09G/5.00ml/MSVOA D/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 221

Quant Time: Jul 22 01:39:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072120S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 12:34:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	298218	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	562188	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	577997	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	288490	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	148671	61.27	ug/l	0.00
Spiked Amount			Recovery	=	122.54%	
35) Dibromofluoromethane	7.91	113	172036	50.45	ug/l	0.00
Spiked Amount			Recovery	=	100.90%	
50) Toluene-d8	10.34	98	677509	53.34	ug/l	0.00
Spiked Amount			Recovery	=	106.68%	
62) 4-Bromofluorobenzene	12.64	95	269867	61.27	ug/l	0.00
Spiked Amount			Recovery	=	122.54%	

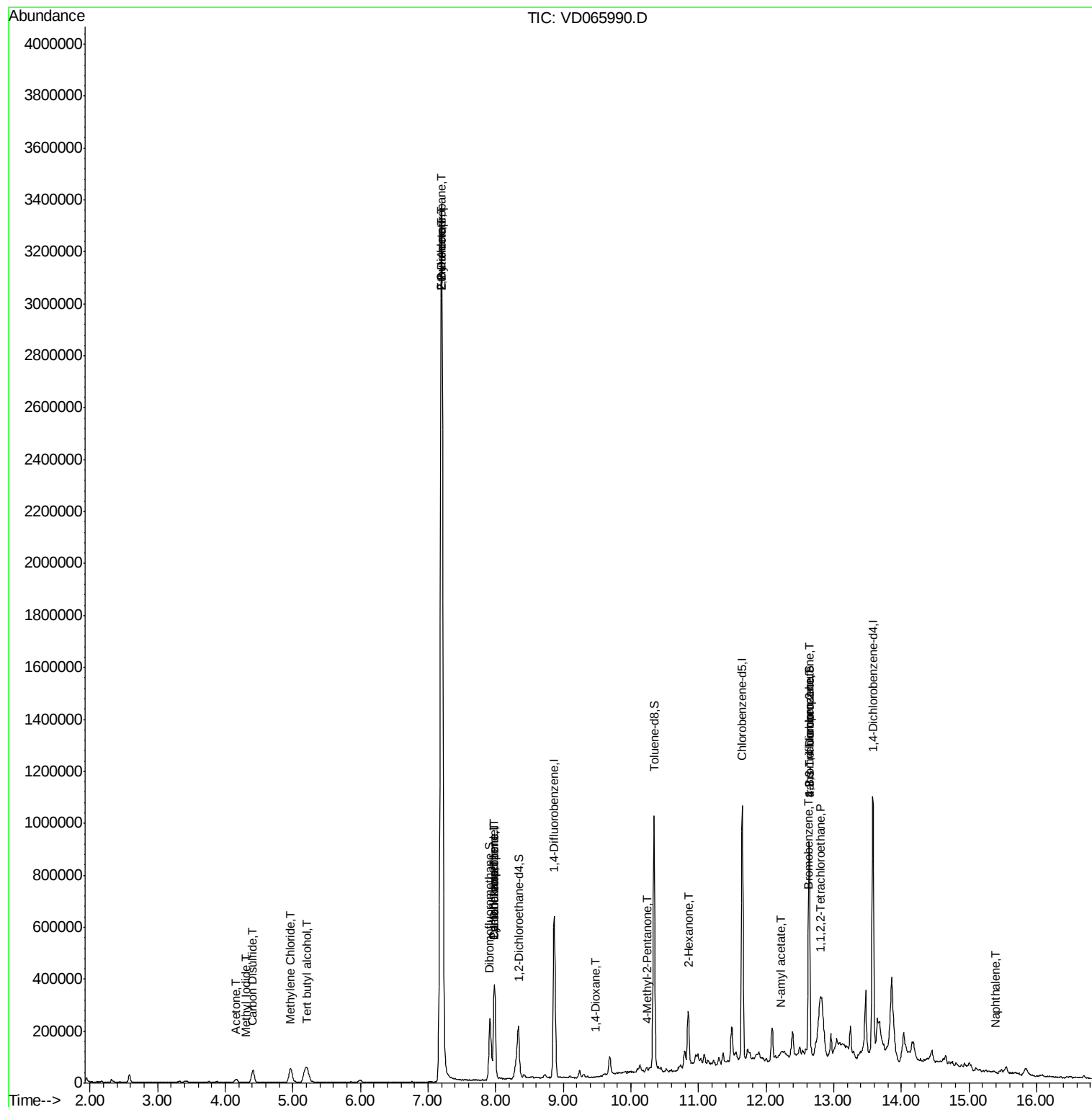
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.77	94	189	Below Cal	#	34
10) Methyl Iodide	4.30	142	416	8.944	ug/l #	42
11) Tert butyl alcohol	5.21	59	105899	747.682	ug/l	97
16) Acetone	4.16	43	20427	41.588	ug/l	98
17) Carbon Disulfide	4.41	76	101167	12.649	ug/l	96
20) Methylene Chloride	4.96	84	41525	13.102	ug/l	97
25) 2-Butanone	7.20	43	170881	262.190	ug/l #	74
26) 2,2-Dichloropropane	7.20	77	230512	57.775	ug/l #	53
31) Cyclohexane	7.98	56	7032	1.611	ug/l #	34
36) 1,1-Dichloropropene	7.98	75	21781	4.540	ug/l #	50
37) Ethyl Acetate	7.20	43	170881	93.257	ug/l #	1
38) Carbon Tetrachloride	7.98	117	28378	5.451	ug/l #	18
49) 1,4-Dioxane	9.47	88	58	2.861	ug/l #	22
51) 4-Methyl-2-Pentanone	10.23	43	12507	6.936	ug/l	100
59) 2-Hexanone	10.85	43	138765	111.046	ug/l	77
74) N-amyl acetate	12.22	43	7074	1.954	ug/l #	56
75) 1,1,2,2-Tetrachloroethane	12.81	83	68671	23.803	ug/l #	26
76) 1,2,3-Trichloropropane	12.64	75	128297	59.064	ug/l #	100
77) Bromobenzene	12.62	156	6999	1.569	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.64	75	128297	135.531	ug/l #	11
95) Naphthalene	15.40	128	3284	3.880	ug/l #	70

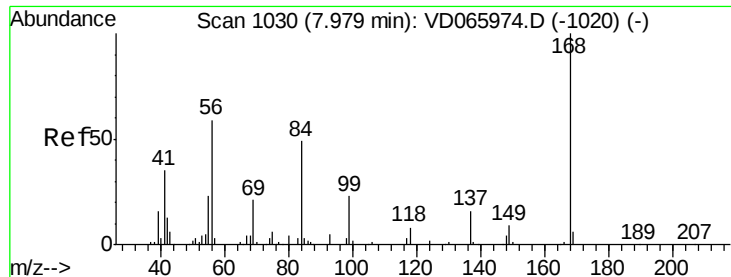
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD065990.D

Acq: 21 Jul 2020 19:51

Instrument :

MSVOA_D

ClientSampleId :

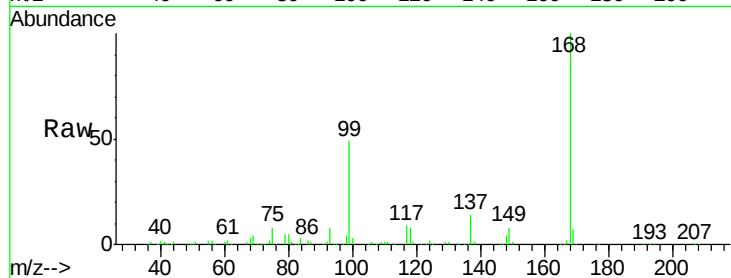
221

Tot Ion:168 Resp: 298218

Ion Ratio Lower Upper

168 100

99 48.8 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

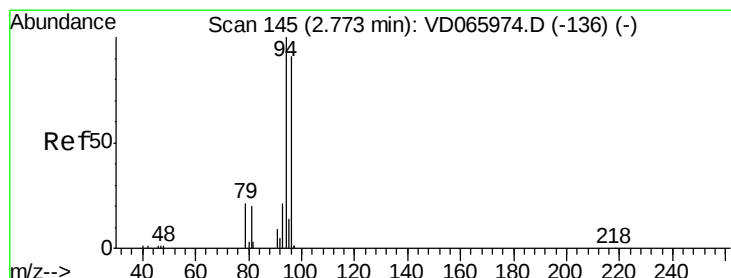
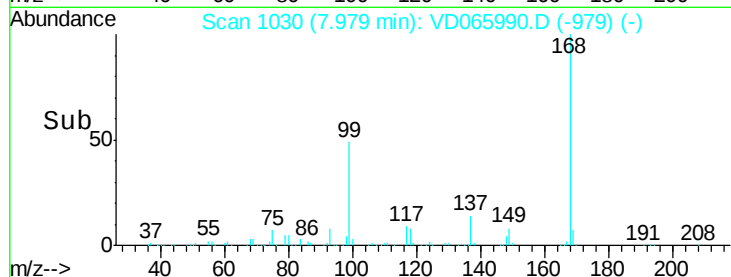
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD065990.D

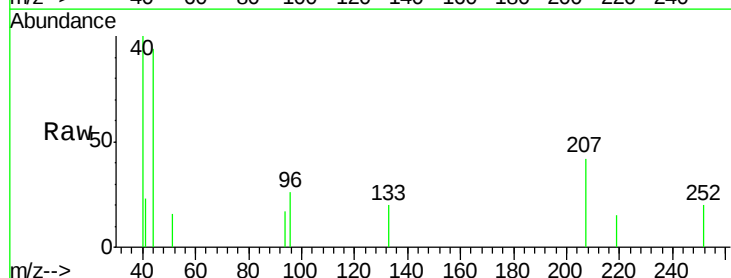
Acq: 21 Jul 2020 19:51

Tgt Ion: 94 Resp: 189

Ion Ratio Lower Upper

94 100

96 154.1 73.0 109.4#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

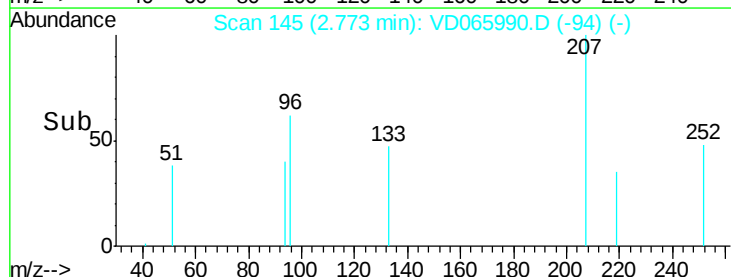
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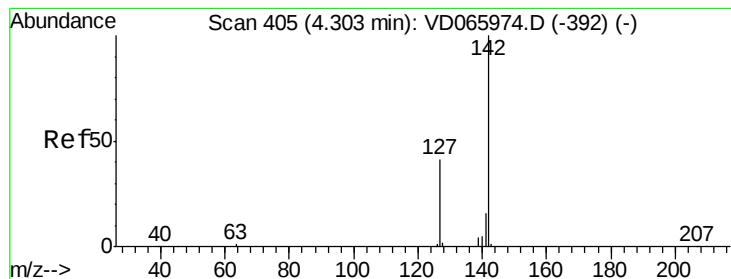
200

100

0

Time-->





#10

Methyl Iodide

Concen: 8.944 ug/l

RT: 4.30 min Scan# 405

Delta R.T. 0.00 min

Lab File: VD065990.D

Acq: 21 Jul 2020 19:51

Instrument :

MSVOA_D

ClientSampleId :

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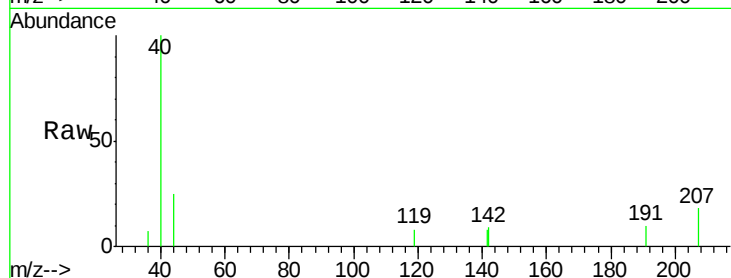
Tot Ion:142 Resp: 416

Ion Ratio Lower Upper

142 100

127 0.0 32.9 49.3#

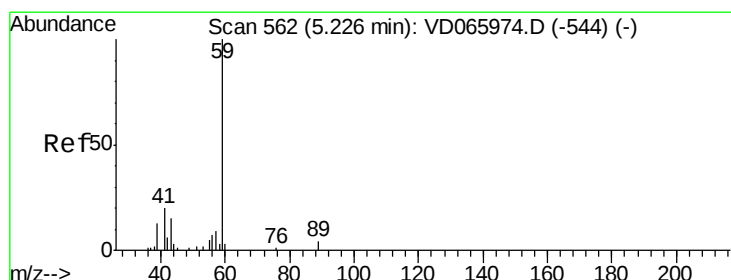
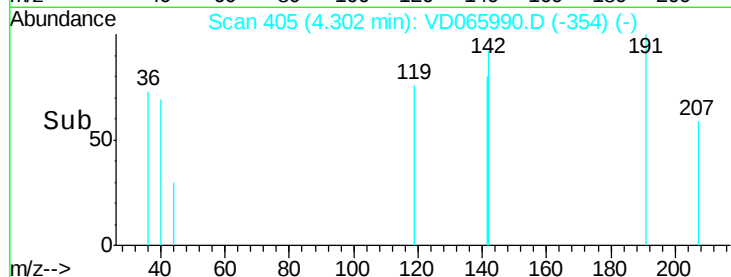
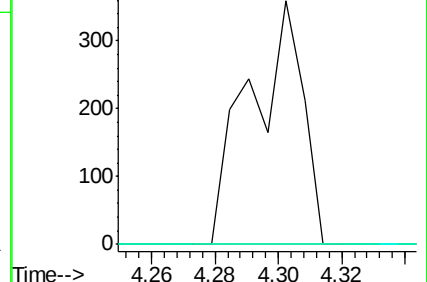
141 0.0 11.8 17.6#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 747.682 ug/l

RT: 5.21 min Scan# 560

Delta R.T. -0.01 min

Lab File: VD065990.D

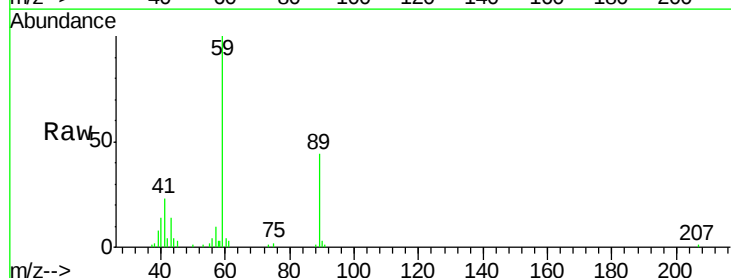
Acq: 21 Jul 2020 19:51

Tgt Ion: 59 Resp: 105899

Ion Ratio Lower Upper

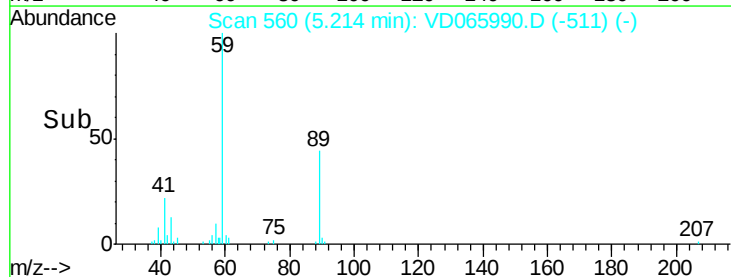
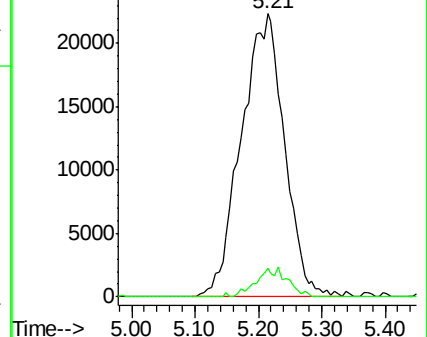
59 100

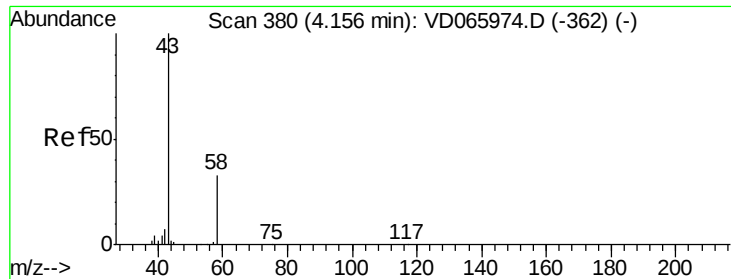
57 4.5 4.5 6.7



Abundance Ion 59.00 (58.70 to 59.70): V

Ion 57.00 (56.70 to 57.70): V

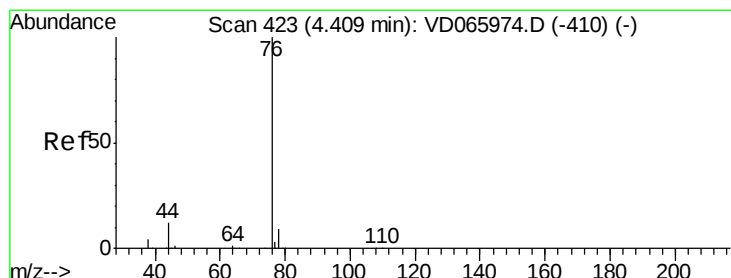
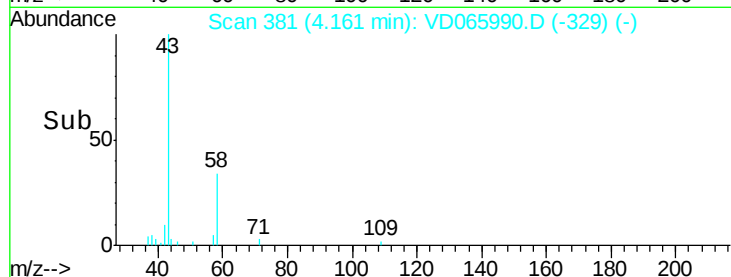
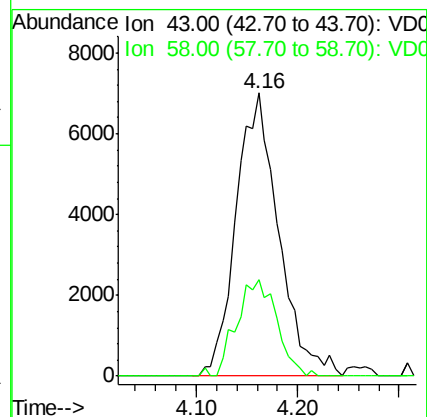
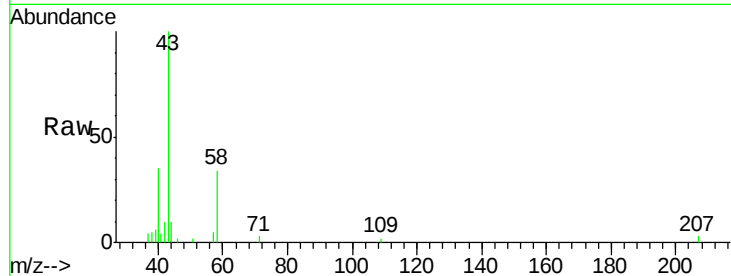




#16
Acetone
Concen: 41.588 ug/l
RT: 4.16 min Scan# 381
Delta R.T. 0.01 min
Lab File: VD065990.D
Acq: 21 Jul 2020 19:51

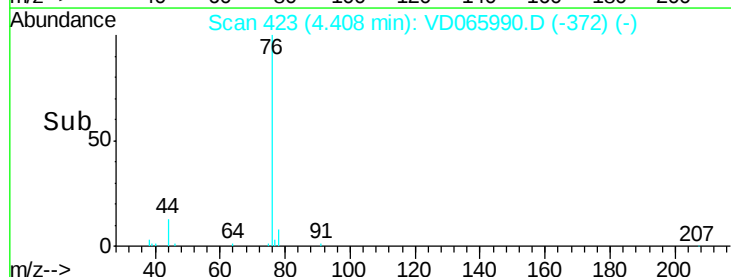
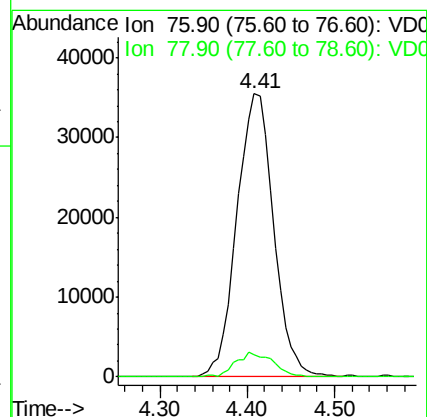
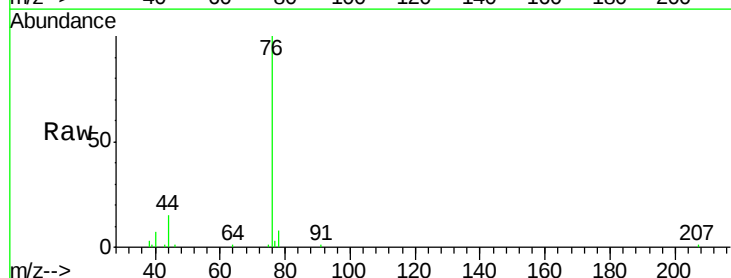
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221

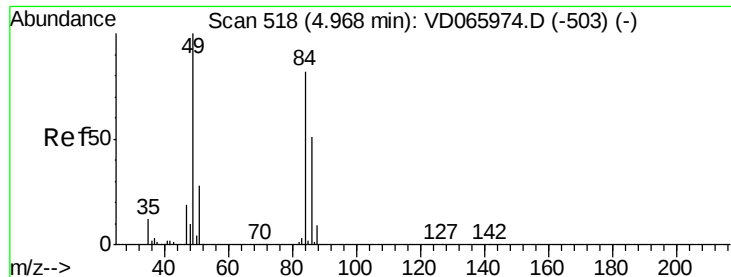
Tot Ion: 43 Resp: 20427
Ion Ratio Lower Upper
43 100
58 34.3 26.3 39.5



#17
Carbon Disulfide
Concen: 12.649 ug/l
RT: 4.41 min Scan# 423
Delta R.T. -0.00 min
Lab File: VD065990.D
Acq: 21 Jul 2020 19:51

Tgt Ion: 76 Resp: 101167
Ion Ratio Lower Upper
76 100
78 7.9 7.4 11.2

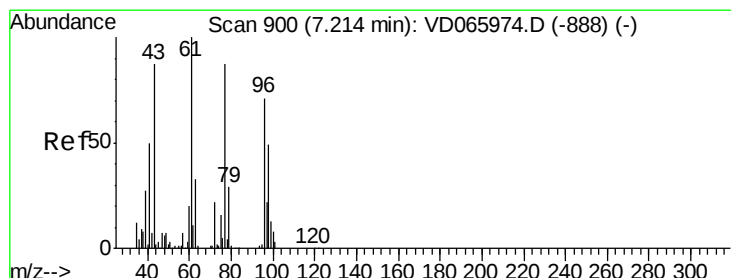
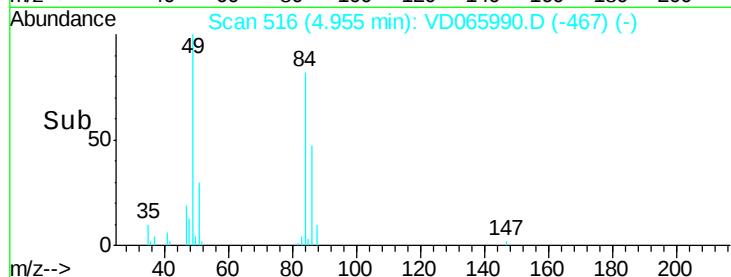
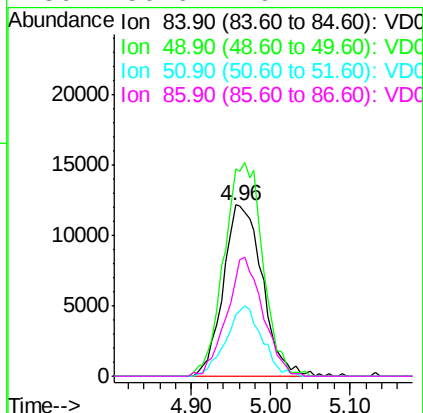
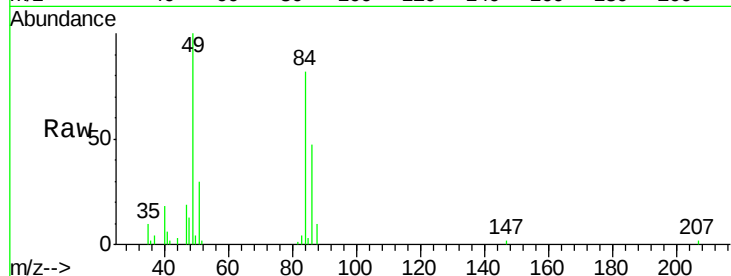




#20
Methvlene Chloride
Concen: 13.102 ug/l
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD065990.D
Acq: 21 Jul 2020 19:51

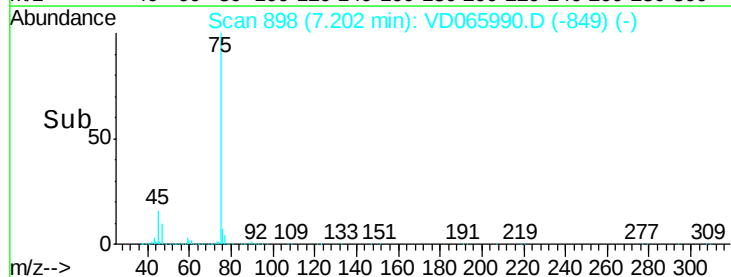
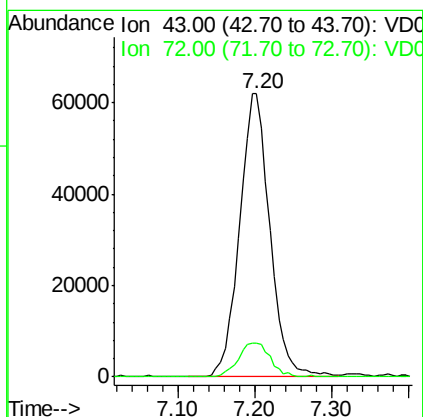
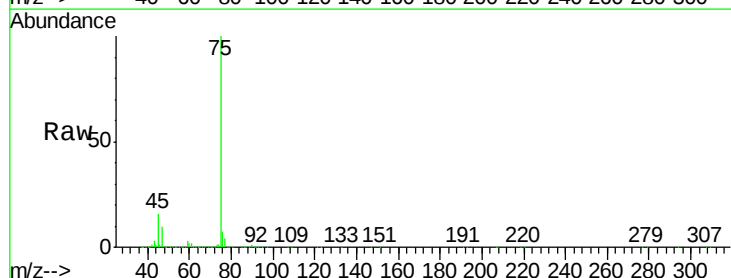
Instrument :
MSVOA_D
ClientSampleId :
221

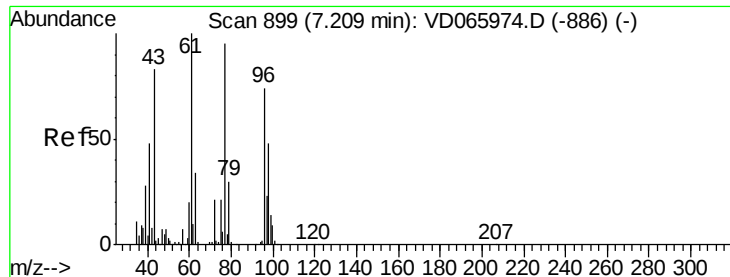
Tot Ion: 84 Resp: 41525
Ion Ratio Lower Upper
84 100
49 121.3 97.7 146.5
51 36.2 27.4 41.2
86 56.6 49.4 74.2



#25
2-Butanone
Concen: 262.190 ug/l
RT: 7.20 min Scan# 898
Delta R.T. -0.01 min
Lab File: VD065990.D
Acq: 21 Jul 2020 19:51

Tgt Ion: 43 Resp: 170881
Ion Ratio Lower Upper
43 100
72 11.9 20.2 30.2#





#26

2,2-Dichloropropane

Concen: 57.775 ug/l

RT: 7.20 min Scan# 897

Delta R.T. -0.01 min

Lab File: VD065990.D

Acq: 21 Jul 2020 19:51

Instrument :

MSVOA_D

ClientSampleId :

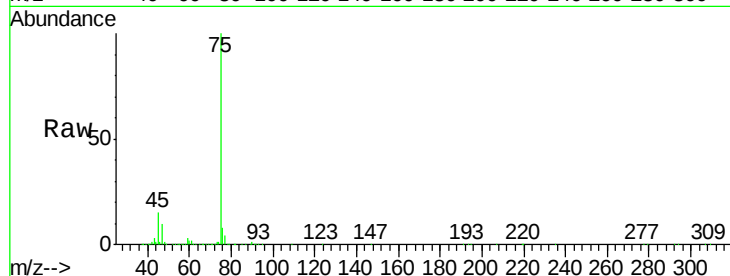
221

Tot Ion: 77 Resp: 230512

Ion Ratio Lower Upper

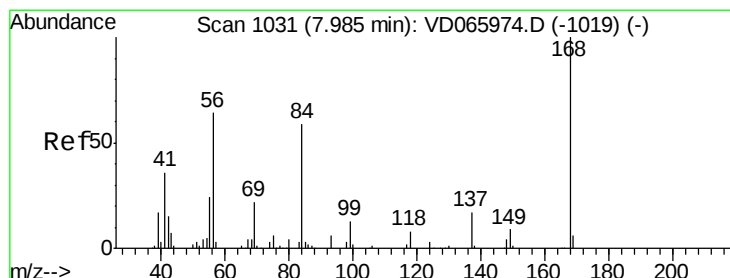
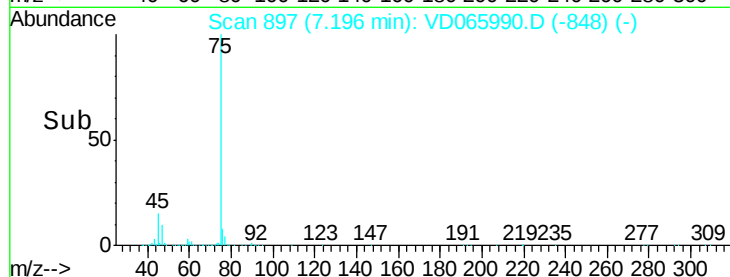
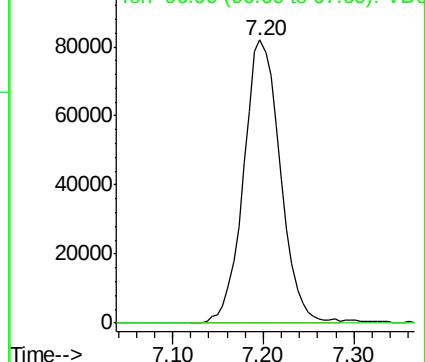
77 100

97 0.0 11.6 34.7#



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC



#31

Cyclohexane

Concen: 1.611 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065990.D

Acq: 21 Jul 2020 19:51

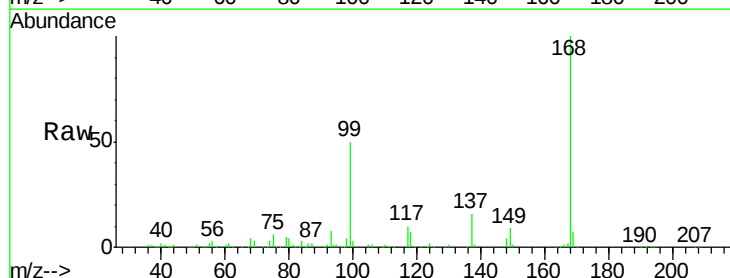
Tgt Ion: 56 Resp: 7032

Ion Ratio Lower Upper

56 100

69 116.7 28.0 42.0#

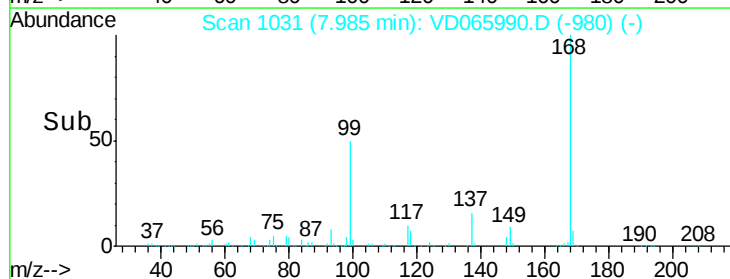
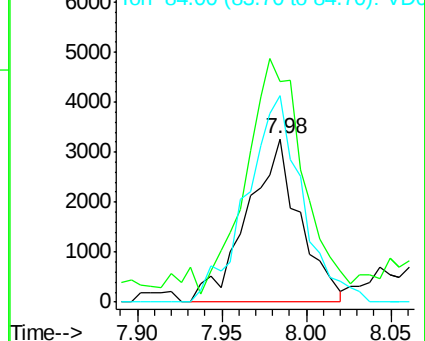
84 126.6 72.6 109.0#

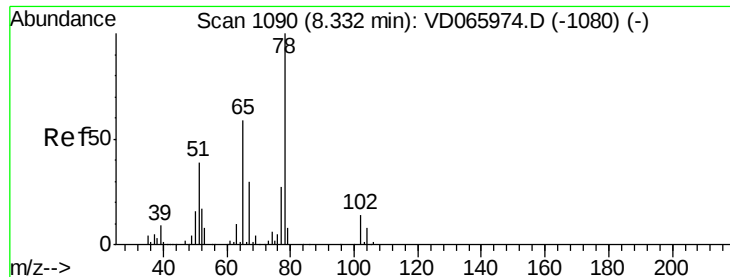


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC

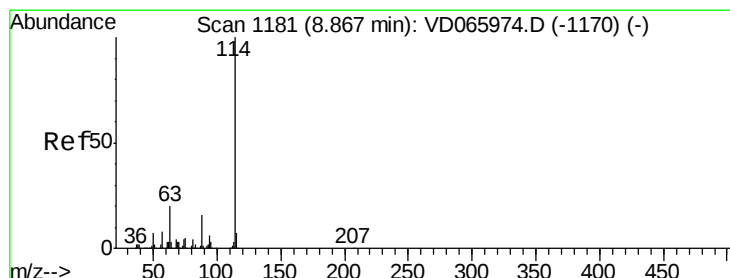
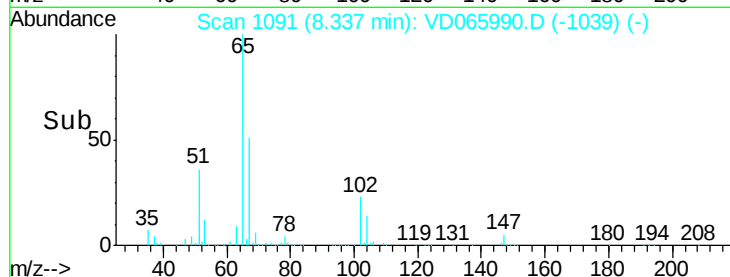
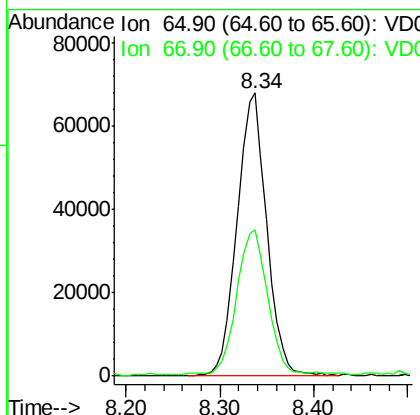
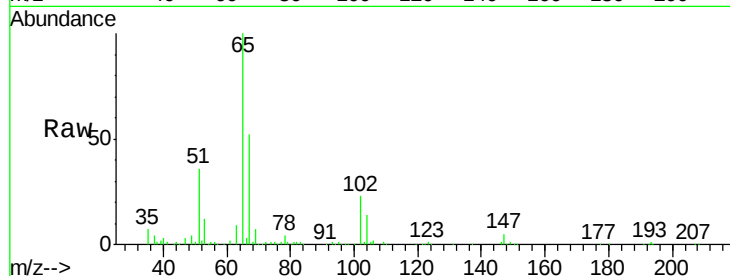




#33
 1,2-Dichloroethane-d4
 Concen: 61.268 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.01 min
 Lab File: VD065990.D
 Acq: 21 Jul 2020 19:51

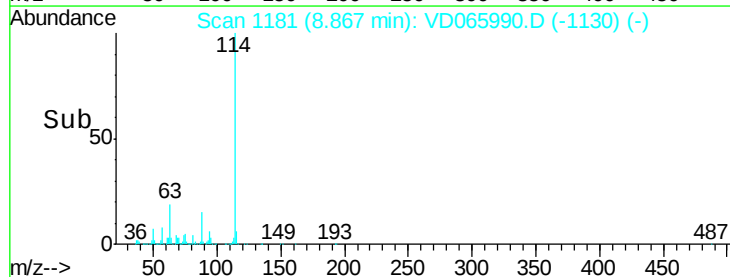
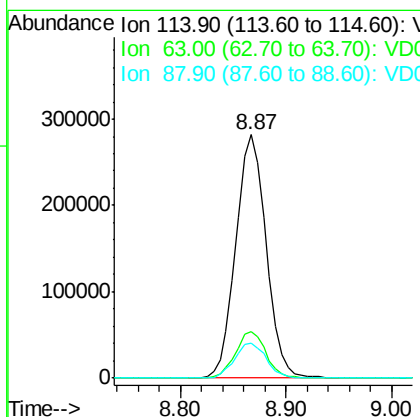
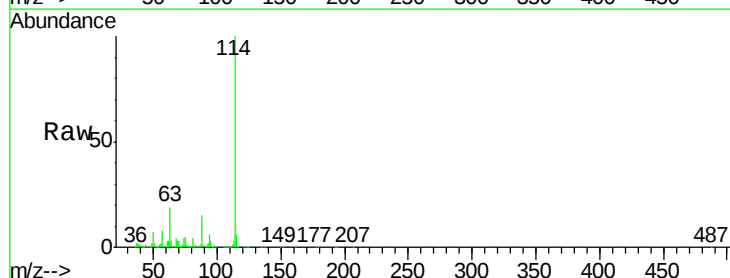
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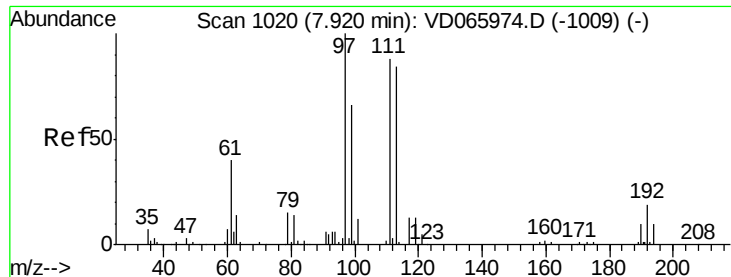
Tot Ion: 65 Resp: 148671
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD065990.D
 Acq: 21 Jul 2020 19:51

Tgt Ion: 114 Resp: 562188
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 39.6
 88 14.5 0.0 31.2

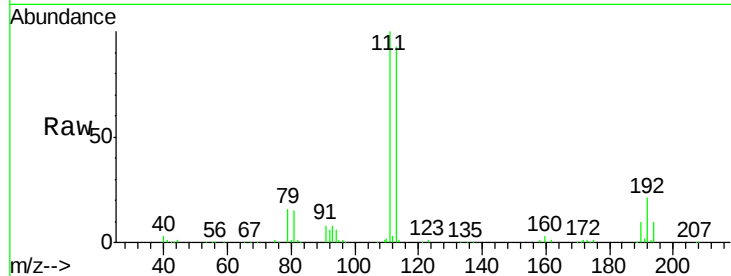




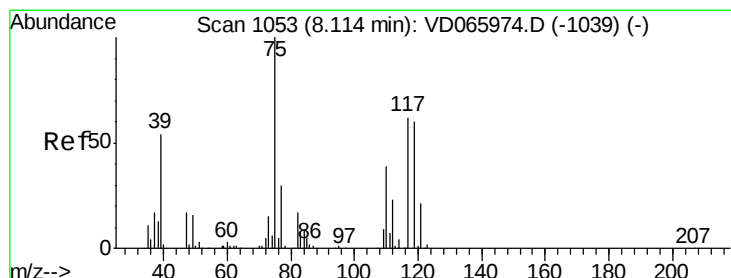
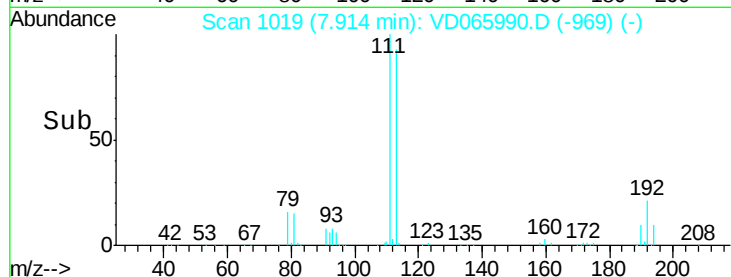
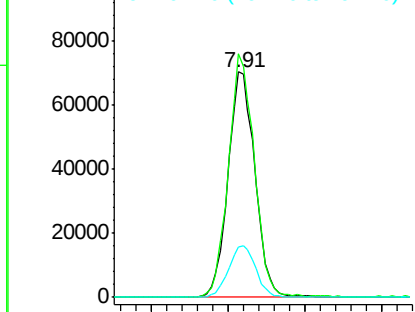
#35
 Dibromofluoromethane
 Concen: 50.453 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. -0.01 min
 Lab File: VD065990.D
 Acq: 21 Jul 2020 19:51

Instrument :
 MSVOA_D
 ClientSampleId :
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Tot Ion:113 Resp: 172036
 Ion Ratio Lower Upper
 113 100
 111 103.9 83.2 124.8
 192 23.0 18.7 28.1

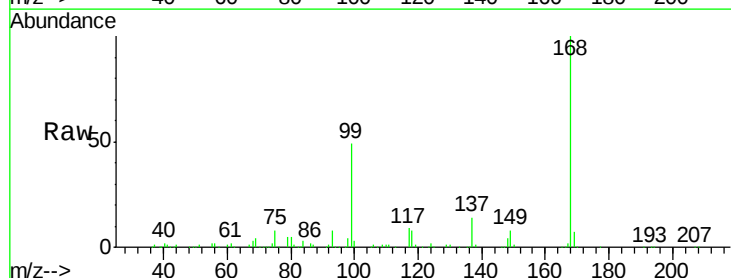


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

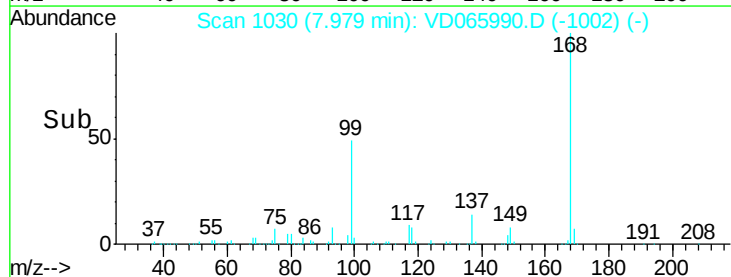
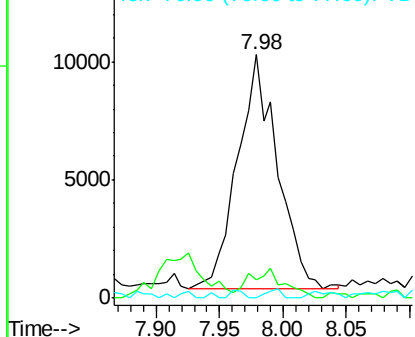


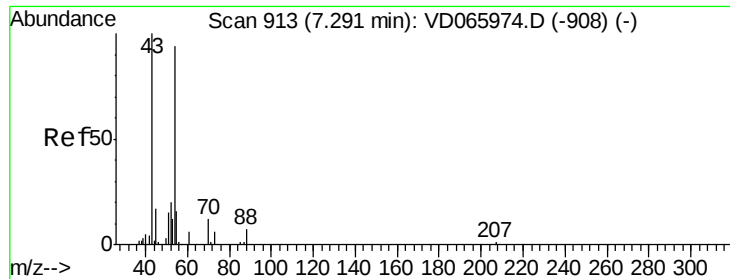
#36
 1,1-Dichloropropene
 Concen: 4.540 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD065990.D
 Acq: 21 Jul 2020 19:51

Tgt Ion: 75 Resp: 21781
 Ion Ratio Lower Upper
 75 100
 110 10.7 19.5 58.5#
 77 1.4 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VDC
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VDC

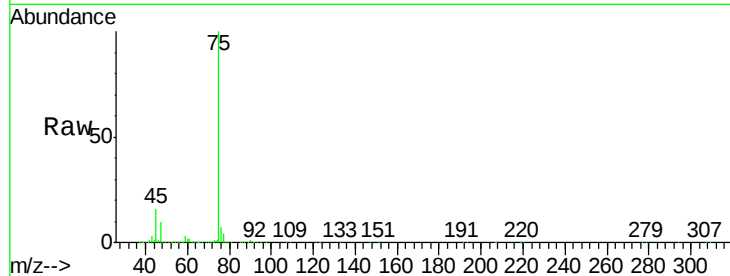




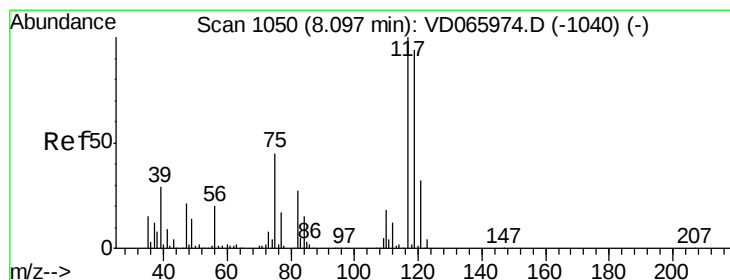
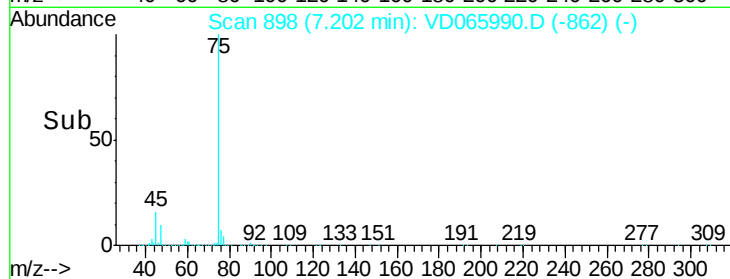
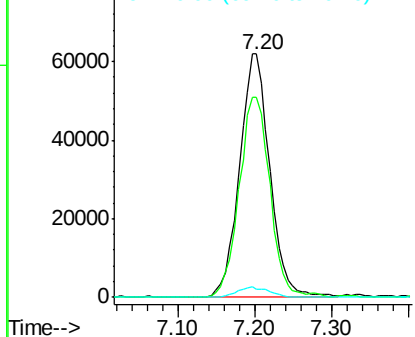
#37
Ethyl Acetate
Concen: 93.257 ug/l
RT: 7.20 min Scan# 898
Delta R.T. -0.09 min
Lab File: VD065990.D
Acq: 21 Jul 2020 19:51

Instrument :
MSVOA_D
ClientSampleId :
221

Tot Ion: 43 Resp: 170881
Ion Ratio Lower Upper
43 100
61 83.1 11.4 17.0#
70 4.4 9.3 13.9#

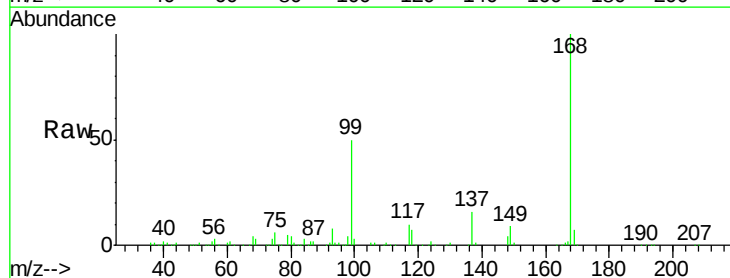


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC

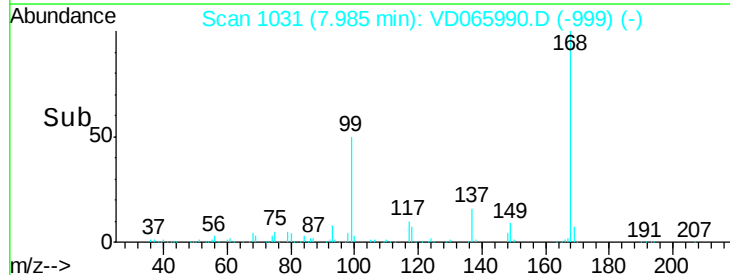
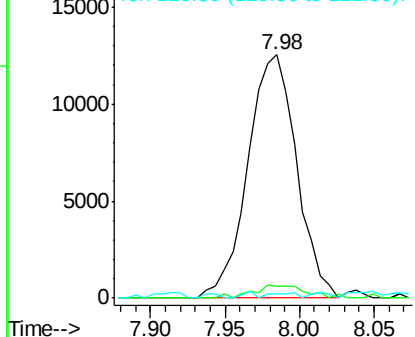


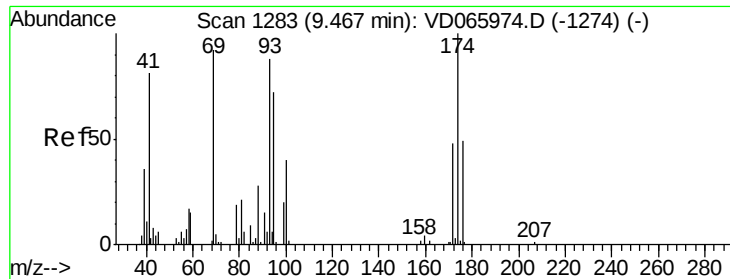
#38
Carbon Tetrachloride
Concen: 5.451 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD065990.D
Acq: 21 Jul 2020 19:51

Tgt Ion: 117 Resp: 28378
Ion Ratio Lower Upper
117 100
119 4.8 75.0 112.6#
121 2.0 25.5 38.3#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

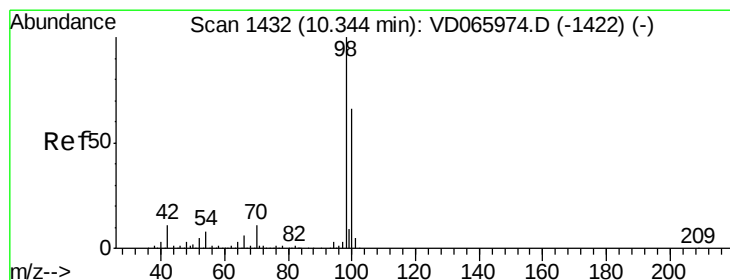
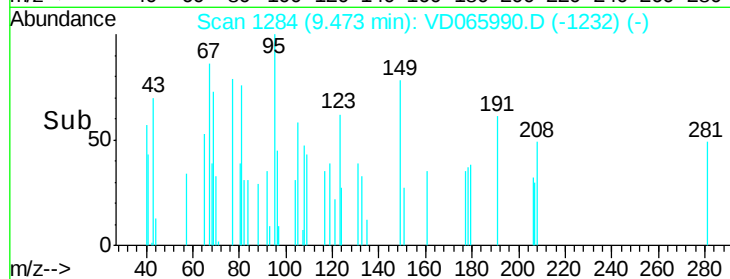
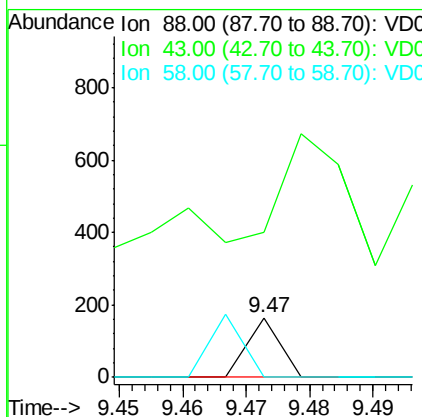
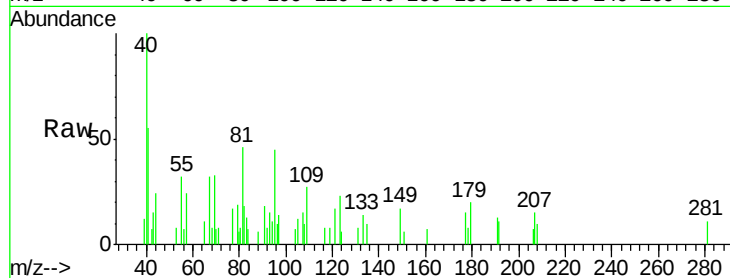




#49
1,4-Dioxane
Concen: 2.861 ug/l
RT: 9.47 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VD065990.D
Acq: 21 Jul 2020 19:51

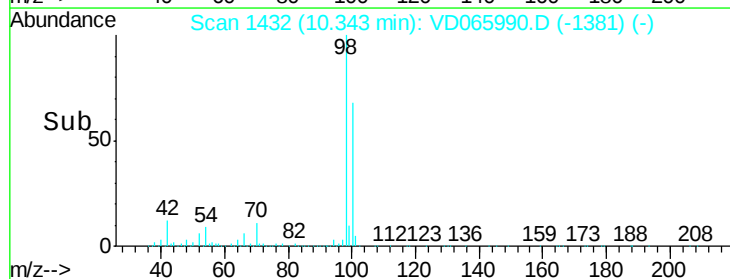
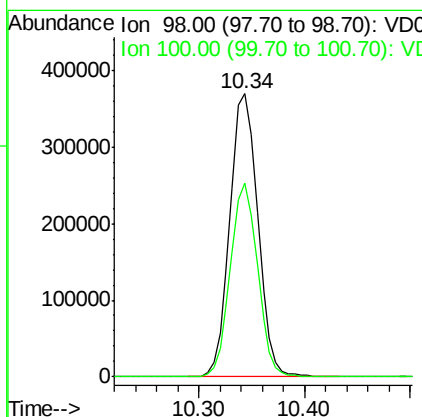
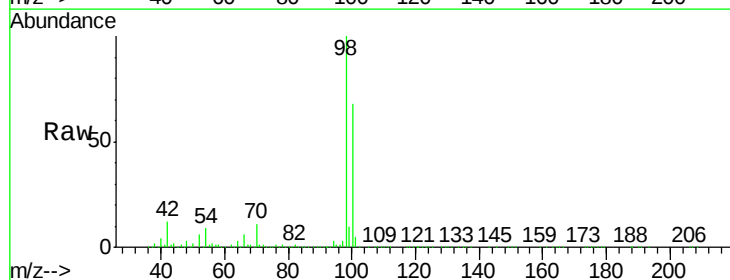
Instrument :
MSVOA_D
ClientSampleId :
221

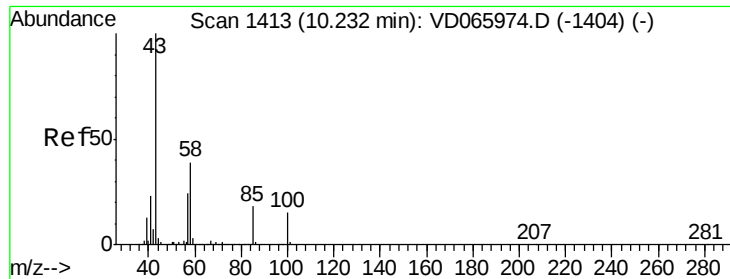
Tot Ion: 88 Resp: 58
Ion Ratio Lower Upper
88 100
43 0.0 29.0 43.6#
58 0.0 57.0 85.4#



#50
Toluene-d8
Concen: 53.336 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065990.D
Acq: 21 Jul 2020 19:51

Tgt Ion: 98 Resp: 677509
Ion Ratio Lower Upper
98 100
100 66.8 52.7 79.1

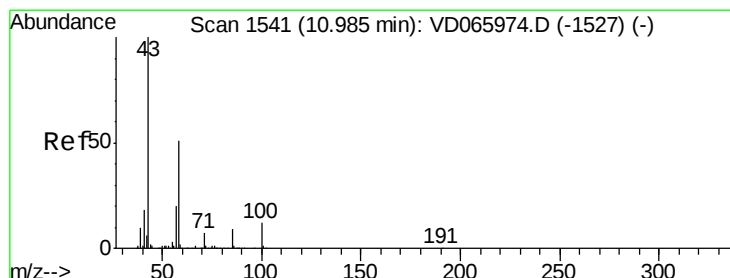
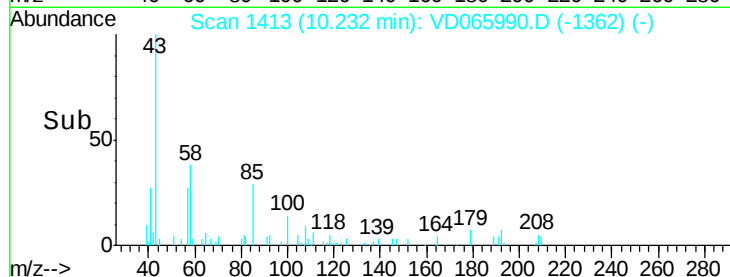
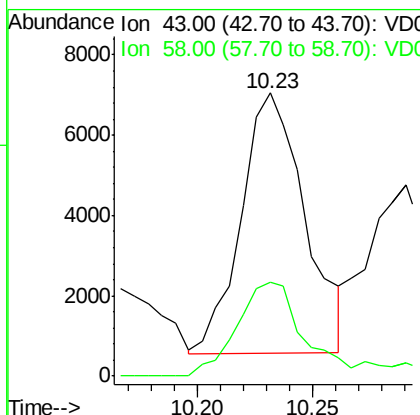
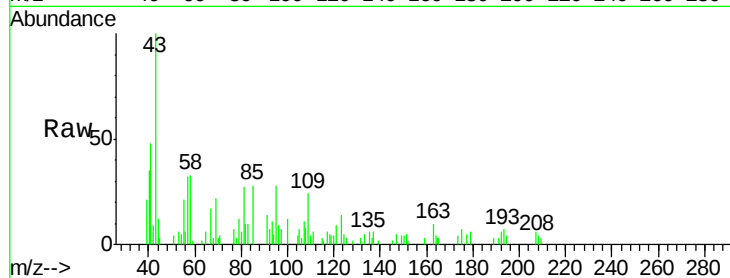




#51
4-Methyl-2-Pentanone
Concen: 6.936 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. -0.00 min
Lab File: VD065990.D
Acq: 21 Jul 2020 19:51

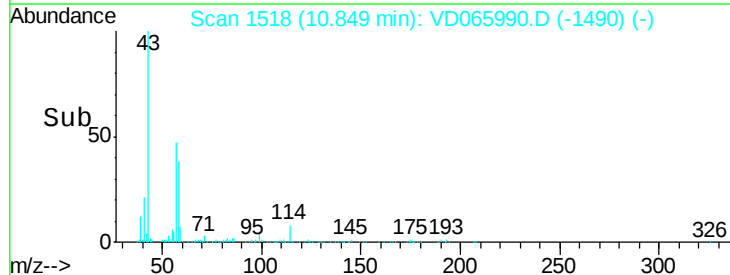
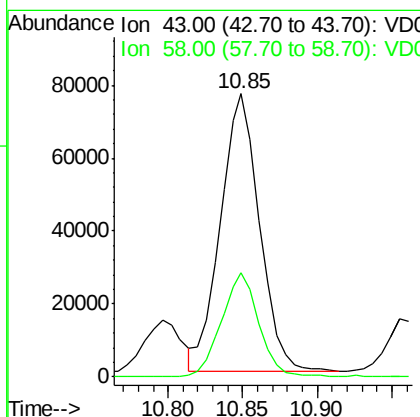
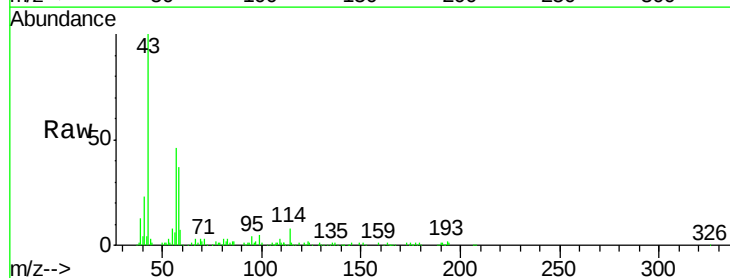
Instrument :
MSVOA_D
ClientSampleId :
221

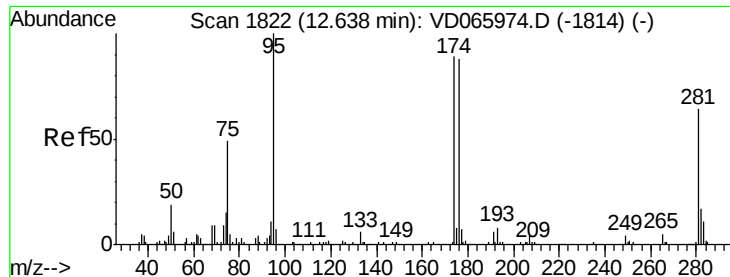
Tot Ion: 43 Resp: 12507
Ion Ratio Lower Upper
43 100
58 39.3 31.3 46.9



#59
2-Hexanone
Concen: 111.046 ug/l
RT: 10.85 min Scan# 1518
Delta R.T. -0.14 min
Lab File: VD065990.D
Acq: 21 Jul 2020 19:51

Tgt Ion: 43 Resp: 138765
Ion Ratio Lower Upper
43 100
58 36.1 26.2 78.6

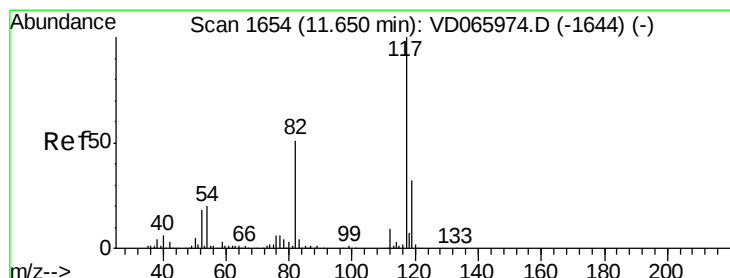
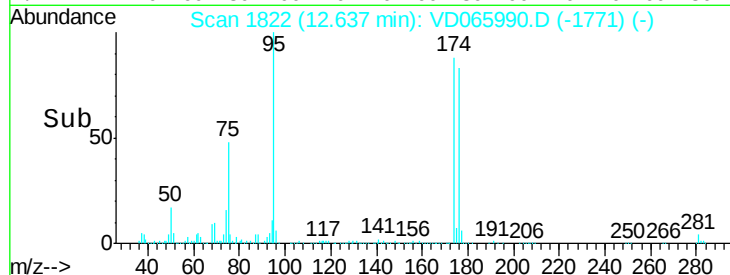
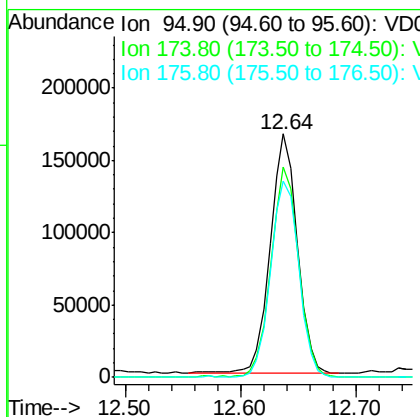
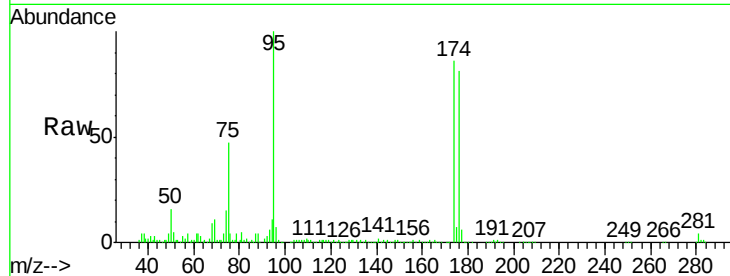




#62
4-Bromofluorobenzene
Concen: 61.271 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD065990.D
Acq: 21 Jul 2020 19:51

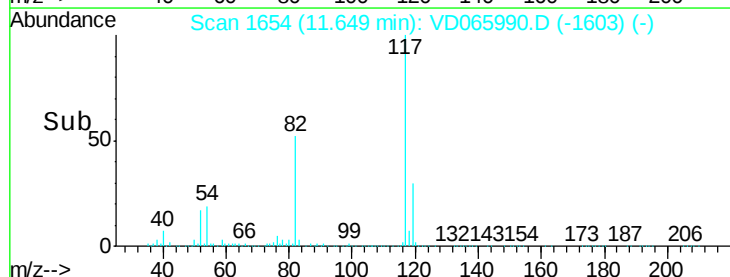
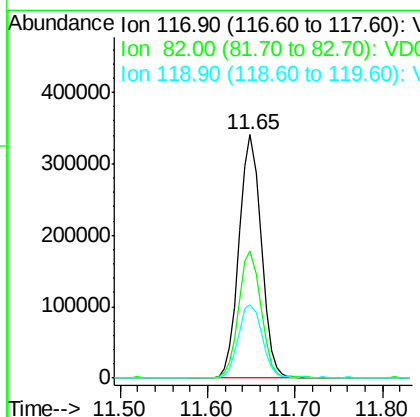
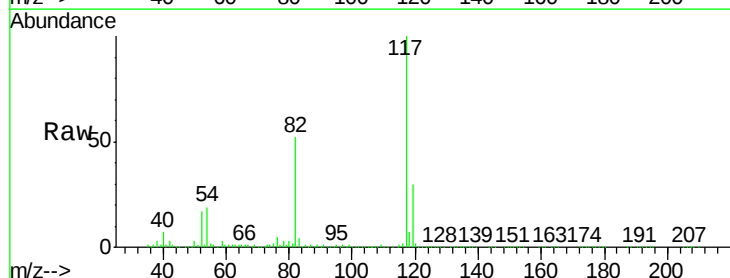
Instrument :
MSVOA_D
ClientSampleId :
221

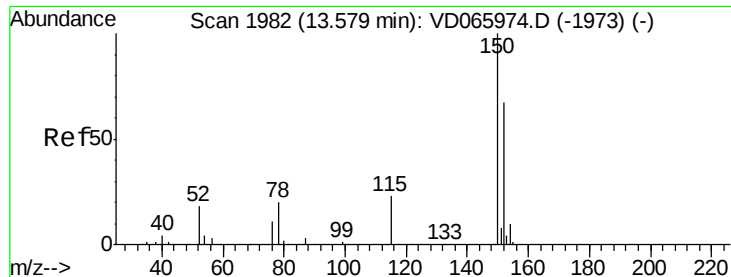
Tot Ion	Ratio	Lower	Upper
95	100		
174	89.3	0.0	178.8
176	85.5	0.0	172.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065990.D
Acq: 21 Jul 2020 19:51

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.3	41.1	61.7
119	30.0	25.9	38.9



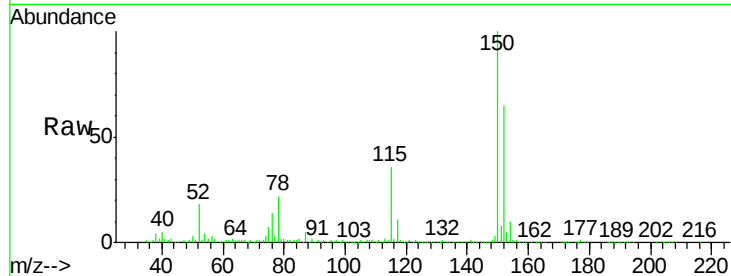


#72

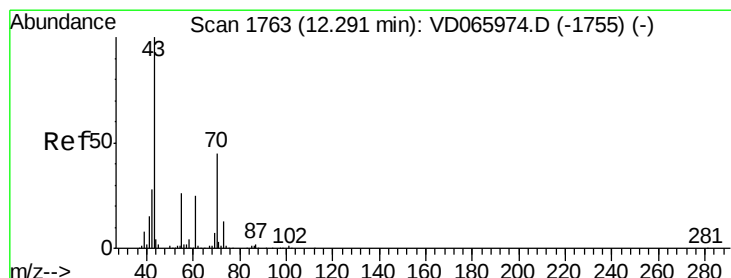
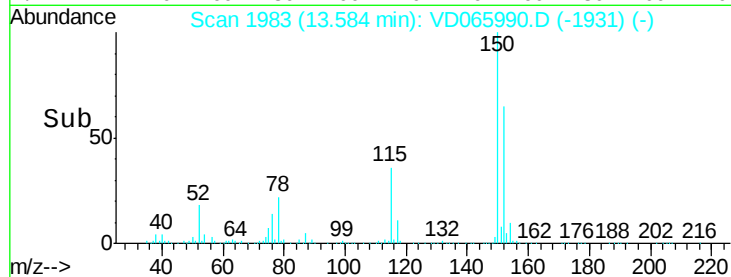
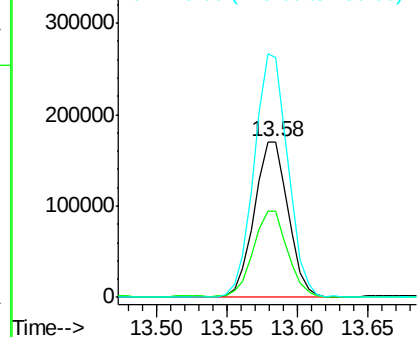
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VD065990.D
Acq: 21 Jul 2020 19:51

Instrument :
MSVOA_D
ClientSampleId :
221

Tot Ion:152 Resp: 288490
Ion Ratio Lower Upper
152 100
115 55.5 27.9 83.7
150 155.1 0.0 348.2



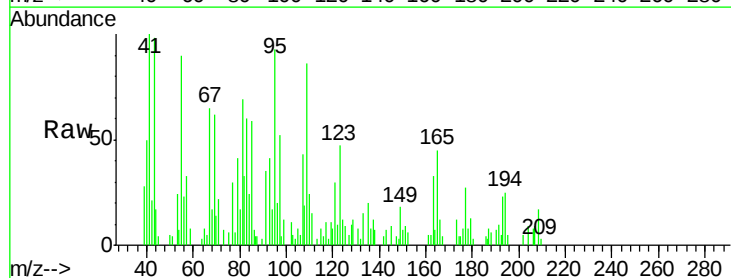
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



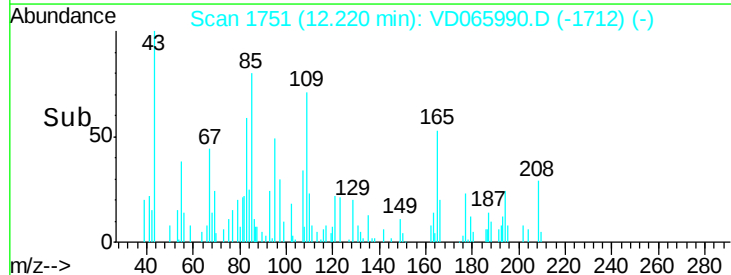
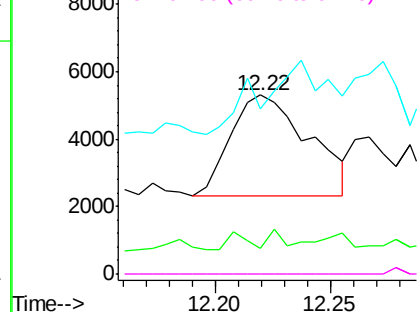
#74

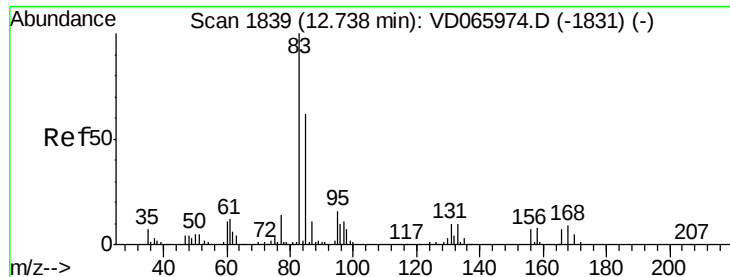
N-ethyl acetate
Concen: 1.954 ug/l
RT: 12.22 min Scan# 1751
Delta R.T. -0.07 min
Lab File: VD065990.D
Acq: 21 Jul 2020 19:51

Tgt Ion: 43 Resp: 7074
Ion Ratio Lower Upper
43 100
70 6.5 34.6 51.8#
55 16.3 20.3 30.5#
61 0.0 19.5 29.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 70.00 (69.70 to 70.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 61.00 (60.70 to 61.70): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 23.803 ug/l

RT: 12.81 min Scan# 1851

Delta R.T. 0.07 min

Lab File: VD065990.D

Acq: 21 Jul 2020 19:51

Instrument :

MSVOA_D

ClientSampleId :

221

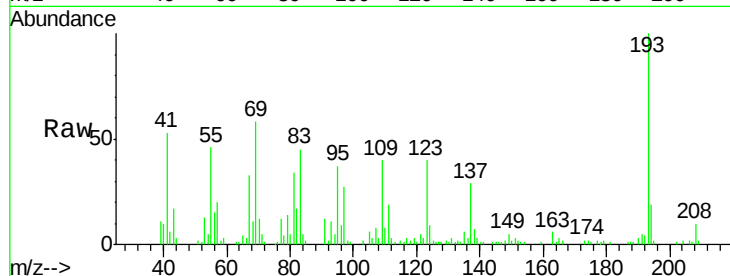
Tot Ion: 83 Resp: 68671

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

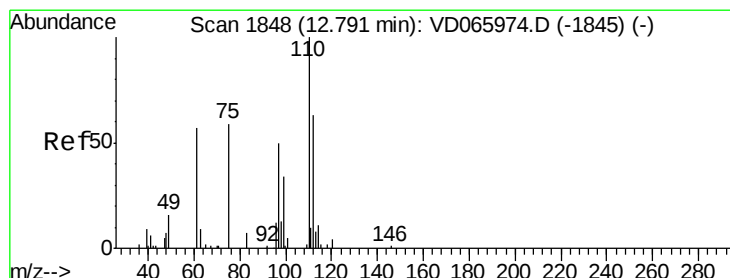
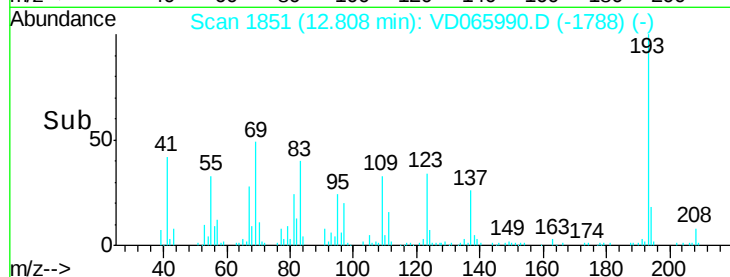
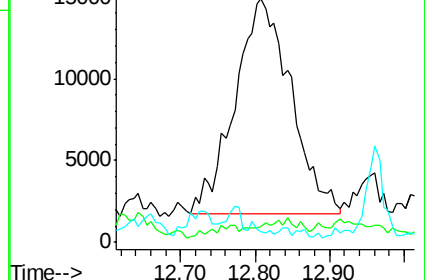
85 0.0 31.9 95.5#



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): VDC

Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 59.064 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065990.D

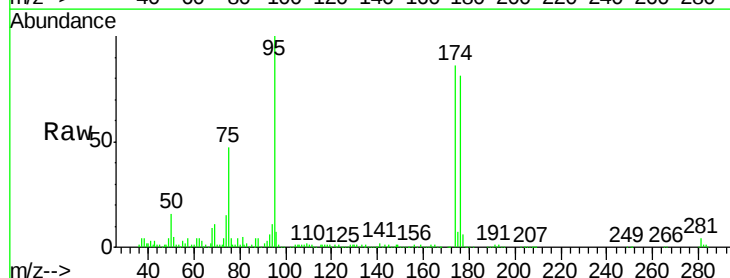
Acq: 21 Jul 2020 19:51

Tgt Ion: 75 Resp: 128297

Ion Ratio Lower Upper

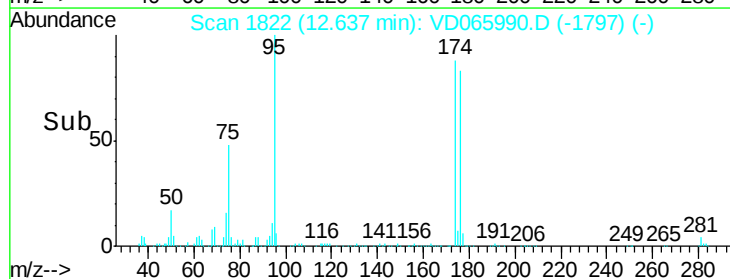
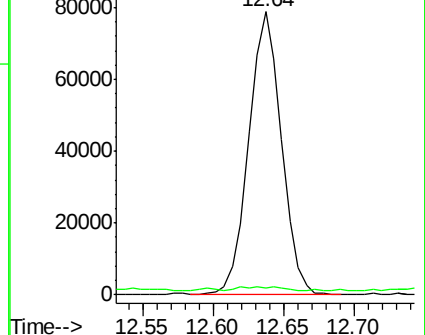
75 100

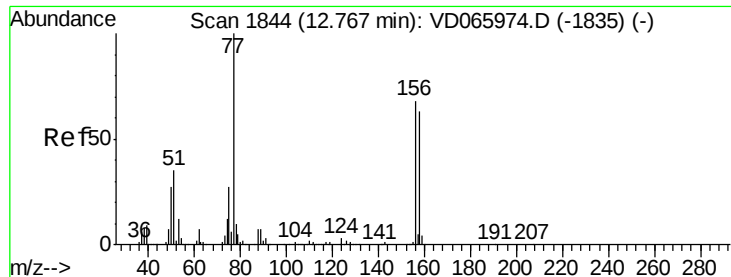
77 2.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 1.569 ug/l

RT: 12.62 min Scan# 1819

Delta R.T. -0.15 min

Lab File: VD065990.D

Acq: 21 Jul 2020 19:51

Instrument :

MSVOA_D

ClientSampled :

221

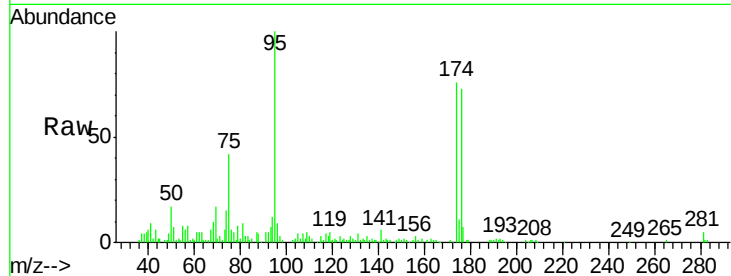
Tot Ion:156 Resp: 6999

Ion Ratio Lower Upper

156 100

77 0.0 83.0 249.0#

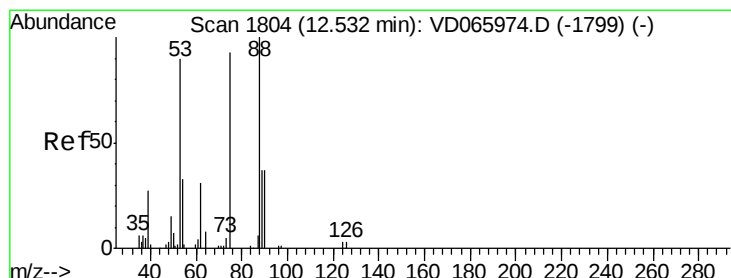
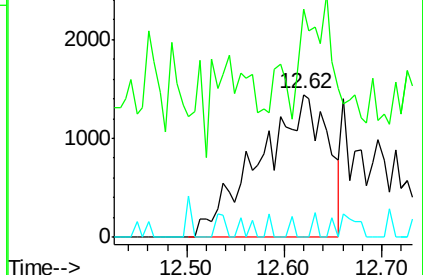
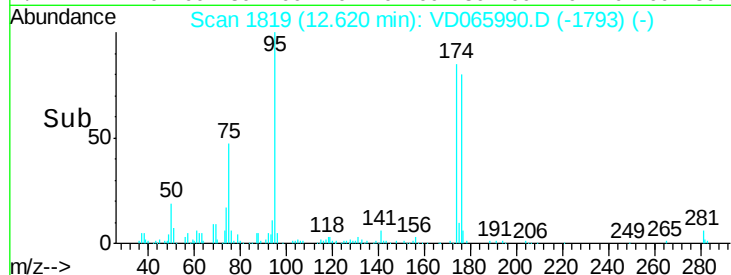
158 1.1 48.2 144.6#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 135.531 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD065990.D

Acq: 21 Jul 2020 19:51

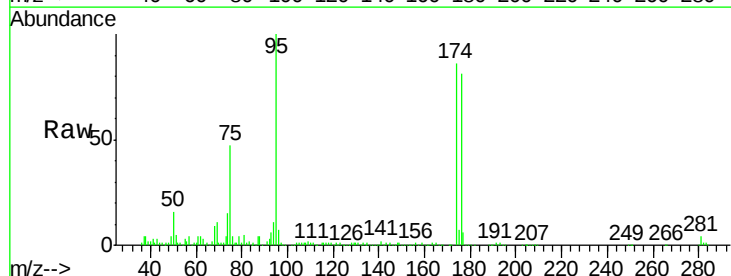
Tgt Ion: 75 Resp: 128297

Ion Ratio Lower Upper

75 100

53 0.0 76.8 115.2#

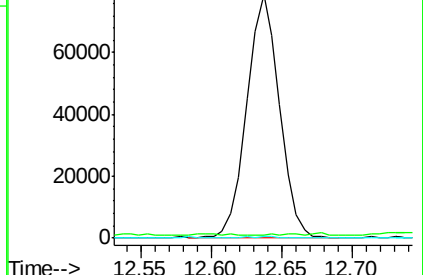
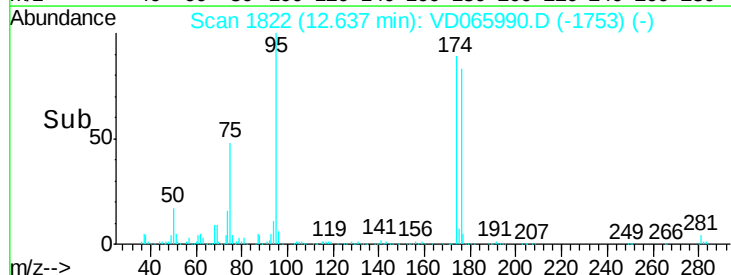
89 0.7 37.0 55.4#

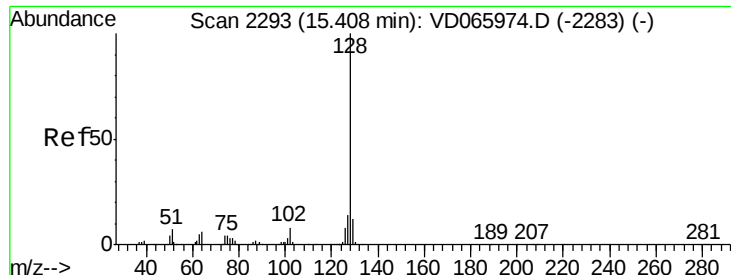


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#95

Napthalene

Concen: 3.880 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. -0.01 min

Lab File: VD065990.D

Acq: 21 Jul 2020 19:51

Instrument :

MSVOA_D

ClientSampleId :

221

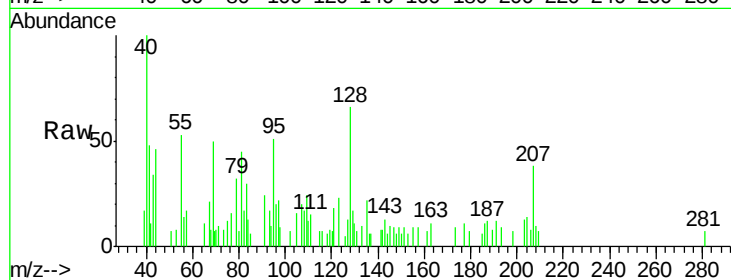
Tot Ion:128 Resp: 3284

Ion Ratio Lower Upper

128 100

127 26.1 10.8 16.2#

129 0.0 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

