

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072220\
 Data File : VD066000.D
 Acq On : 22 Jul 2020 14:33
 Operator : VA/SY
 Sample : L3323-02RE
 Misc : 5.25G/5.00ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 221

Quant Time: Jul 23 01:04:17 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	297229	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	534592	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	550673	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	273858	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	139048	57.49	ug/l	0.00
Spiked Amount						
			Recovery	=	114.98%	
35) Dibromofluoromethane	7.92	113	163706	50.49	ug/l	0.00
Spiked Amount						
			Recovery	=	100.98%	
50) Toluene-d8	10.34	98	653026	54.06	ug/l	0.00
Spiked Amount						
			Recovery	=	108.12%	
62) 4-Bromofluorobenzene	12.64	95	258294	61.67	ug/l	0.00
Spiked Amount						
			Recovery	=	123.34%	

Target Compounds

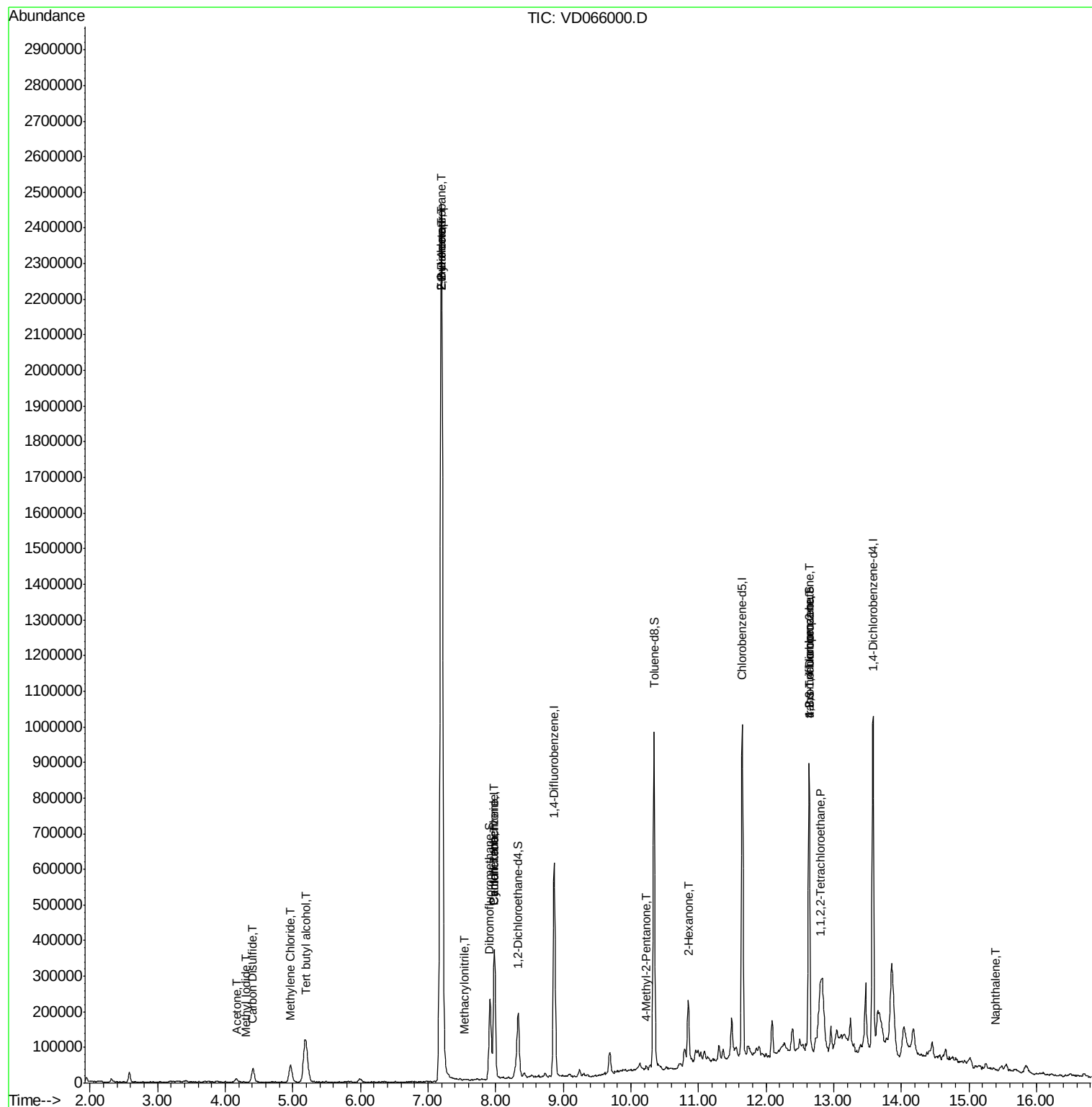
					Qvalue	
5) Bromomethane	2.77	94	198	Below Cal	#	4
10) Methyl Iodide	4.31	142	286	8.903	ug/l #	42
11) Tert butyl alcohol	5.19	59	156825	1125.704	ug/l #	93
16) Acetone	4.17	43	14657	29.940	ug/l	98
17) Carbon Disulfide	4.41	76	83672	10.496	ug/l #	94
20) Methylene Chloride	4.97	84	37274	11.486	ug/l	95
25) 2-Butanone	7.20	43	122229	188.165	ug/l #	79
26) 2,2-Dichloropropane	7.19	77	170145	42.787	ug/l #	53
31) Cyclohexane	7.97	56	6713	1.543	ug/l #	7
37) Ethyl Acetate	7.20	43	122229	70.149	ug/l #	1
38) Carbon Tetrachloride	7.98	117	27803	5.616	ug/l #	19
41) Methacrylonitrile	7.54	41	1394	1.397	ug/l #	100
51) 4-Methyl-2-Pentanone	10.23	43	7219	4.210	ug/l	99
59) 2-Hexanone	10.85	43	110247	92.779	ug/l	78
75) 1,1,2,2-Tetrachloroethane	12.80	83	23270	8.497	ug/l #	27
76) 1,2,3-Trichloropropane	12.64	75	124923	60.583	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	124923	139.017	ug/l #	11
95) Naphthalene	15.41	128	3432	3.914	ug/l #	81

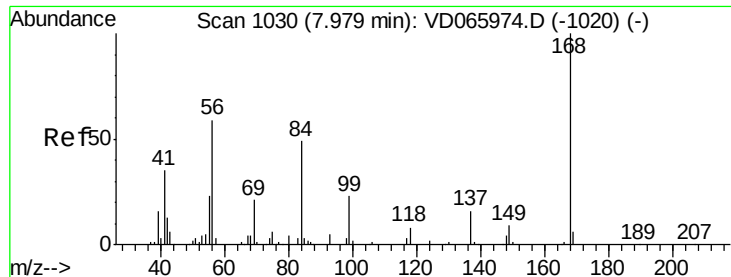
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD066000.D

Acq: 22 Jul 2020 14:33

Instrument :

MSVOA_D

ClientSampleId :

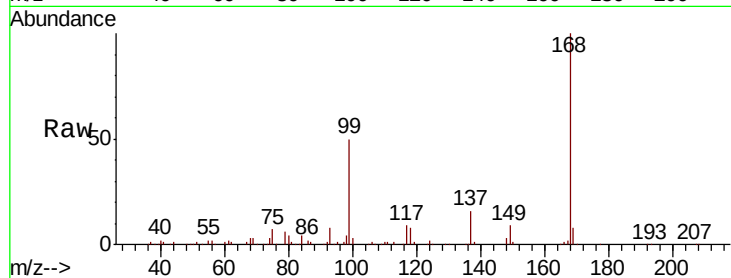
221

Tot Ion:168 Resp: 297229

Ion Ratio Lower Upper

168 100

99 50.4 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

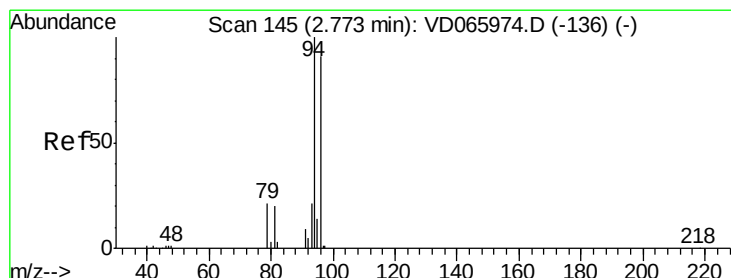
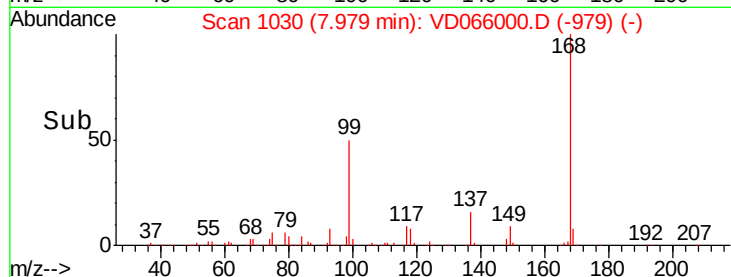
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD066000.D

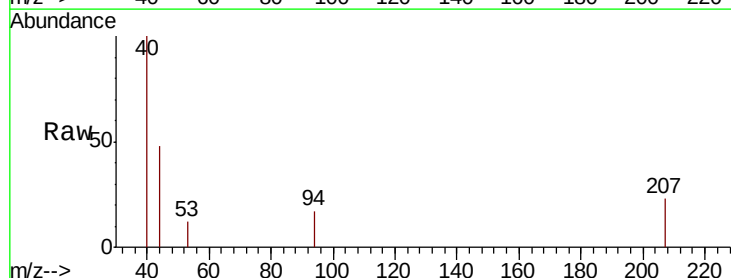
Acq: 22 Jul 2020 14:33

Tgt Ion: 94 Resp: 198

Ion Ratio Lower Upper

94 100

96 0.0 73.0 109.4#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.77

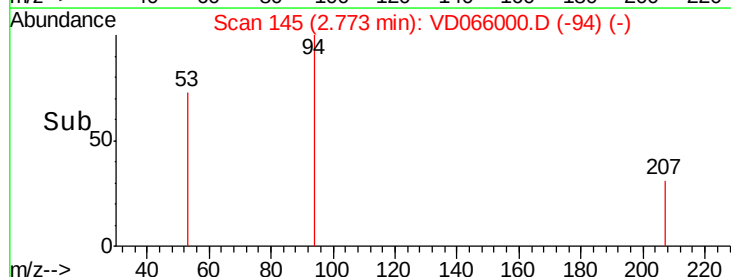
300

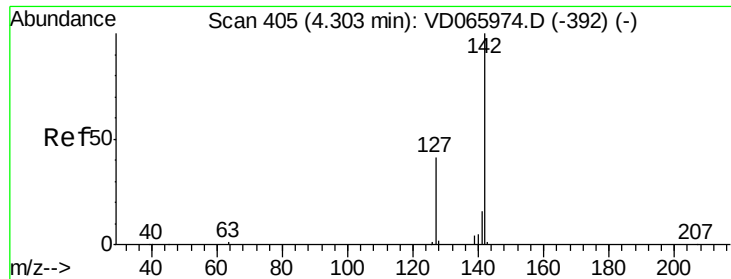
200

100

0

Time-->

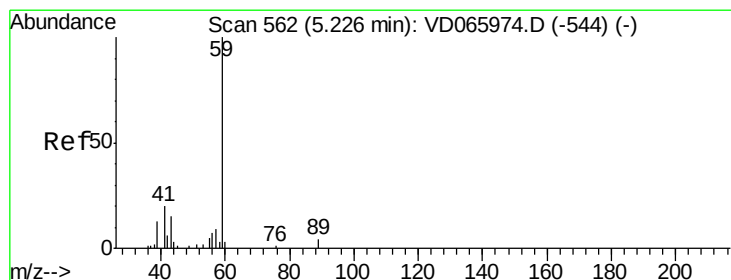
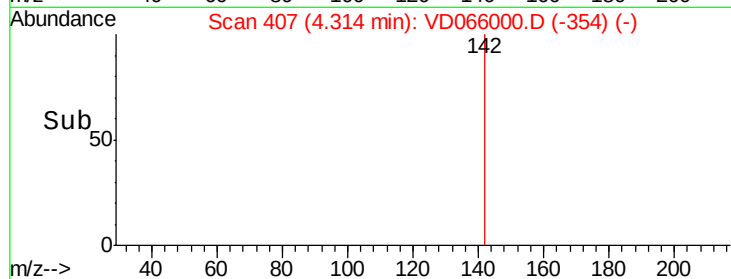
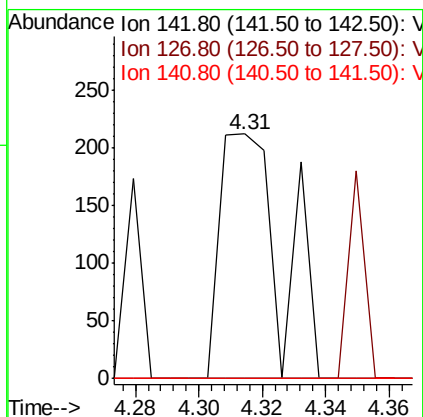
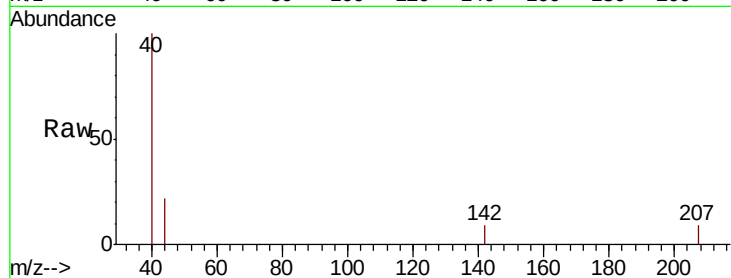




#10
Methyl Iodide
Concen: 8.903 ug/l
RT: 4.31 min Scan# 407
Delta R.T. 0.01 min
Lab File: VD066000.D
Acq: 22 Jul 2020 14:33

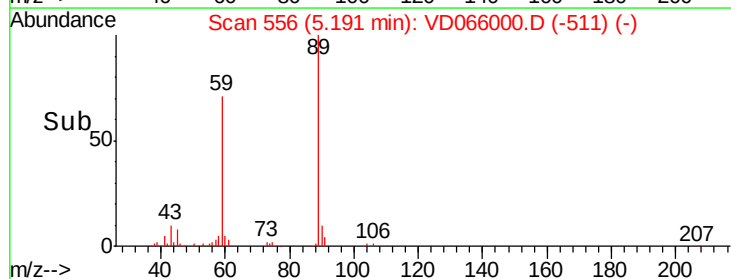
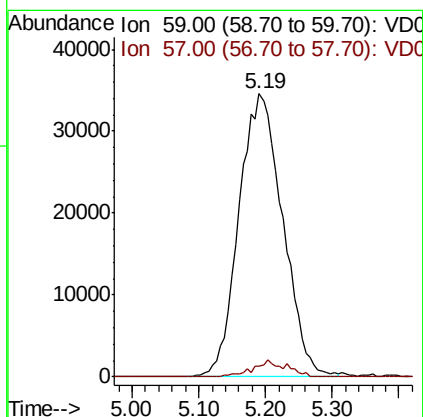
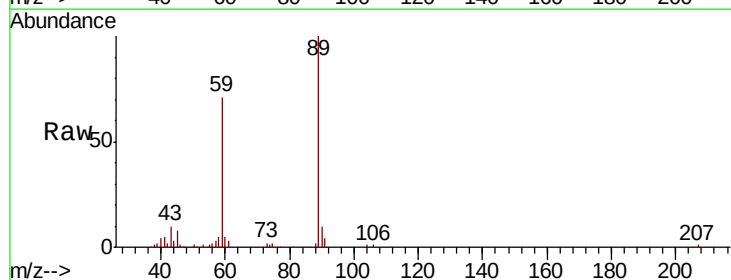
Instrument :
MSVOA_D
ClientSampled :
221

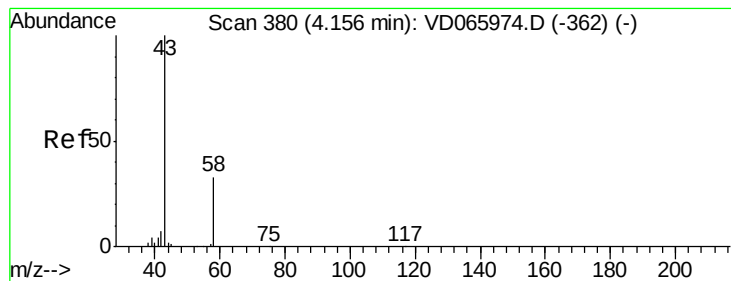
Tot Ion:142 Resp: 286
Ion Ratio Lower Upper
142 100
127 0.0 32.9 49.3#
141 0.0 11.8 17.6#



#11
Tert butyl alcohol
Concen: 1125.704 ug/l
RT: 5.19 min Scan# 556
Delta R.T. -0.04 min
Lab File: VD066000.D
Acq: 22 Jul 2020 14:33

Tgt Ion: 59 Resp: 156825
Ion Ratio Lower Upper
59 100
57 3.4 4.5 6.7#





#16

Acetone

Concen: 29.940 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD066000.D

Acq: 22 Jul 2020 14:33

Instrument :

MSVOA_D

ClientSampled :

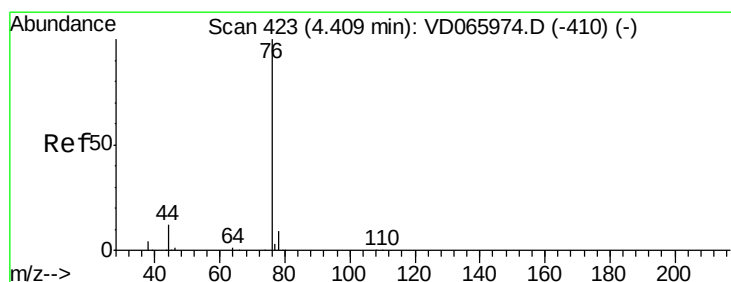
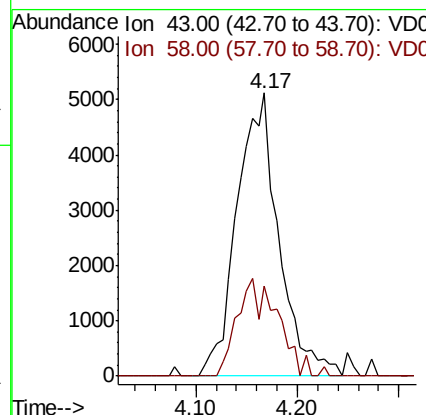
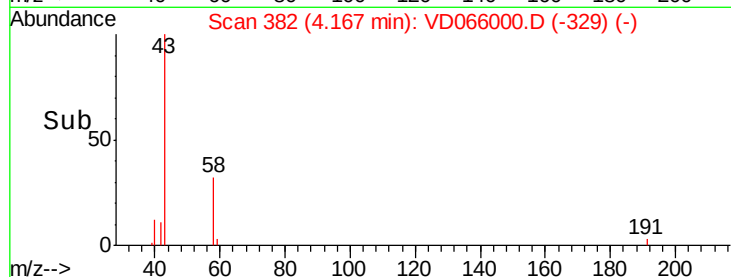
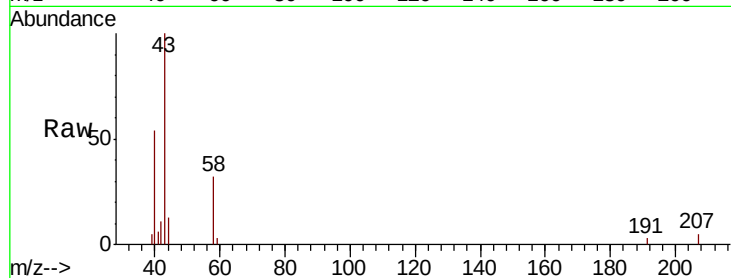
221

Tot Ion: 43 Resp: 14657

Ion Ratio Lower Upper

43 100

58 31.9 26.3 39.5



#17

Carbon Disulfide

Concen: 10.496 ug/l

RT: 4.41 min Scan# 423

Delta R.T. -0.00 min

Lab File: VD066000.D

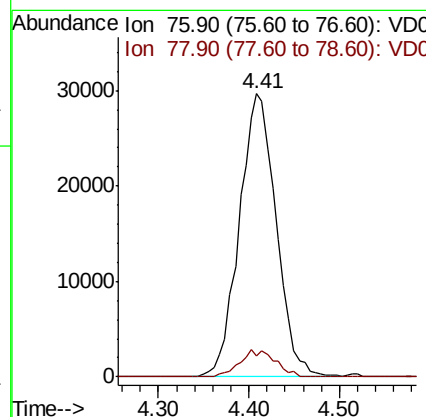
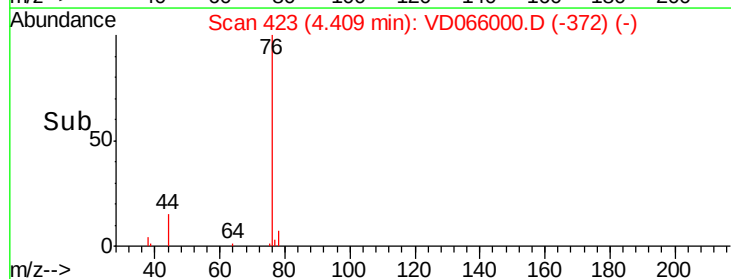
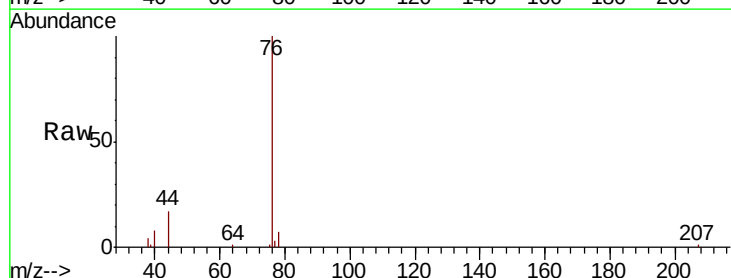
Acq: 22 Jul 2020 14:33

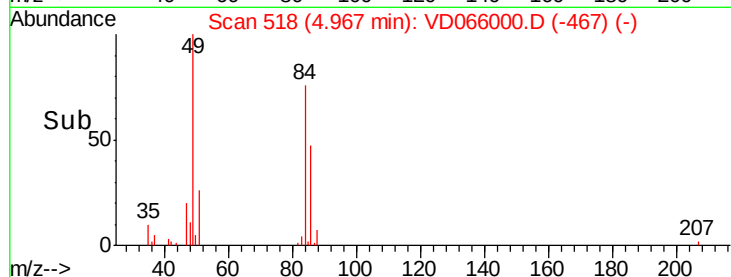
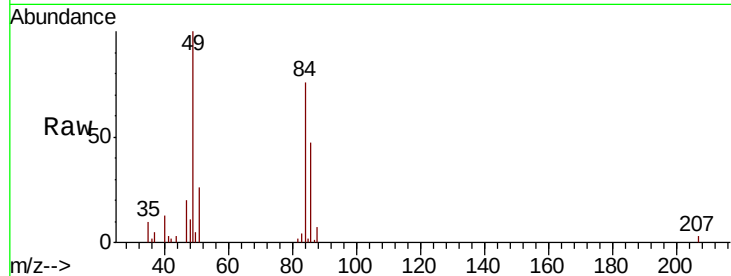
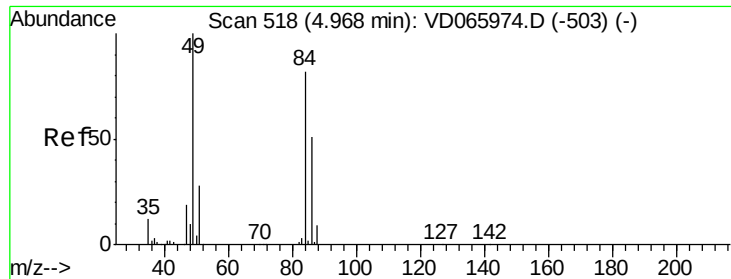
Tgt Ion: 76 Resp: 83672

Ion Ratio Lower Upper

76 100

78 7.3 7.4 11.2#

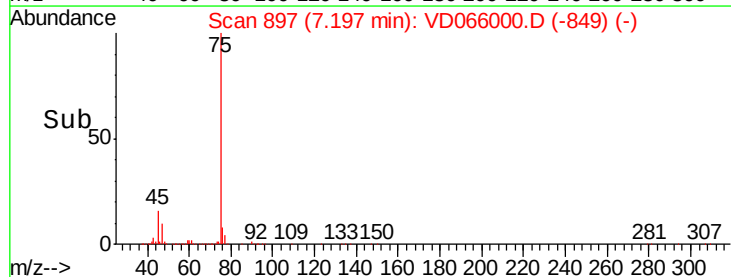
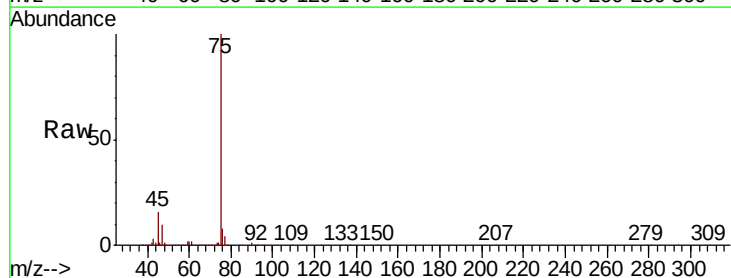
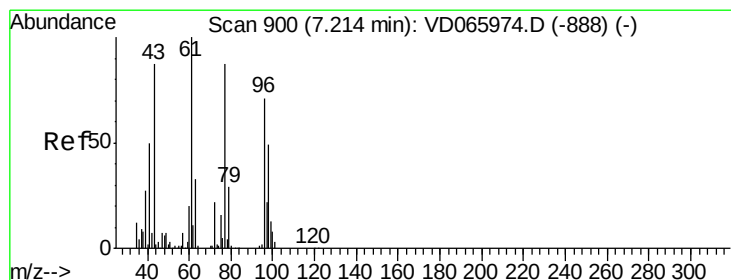
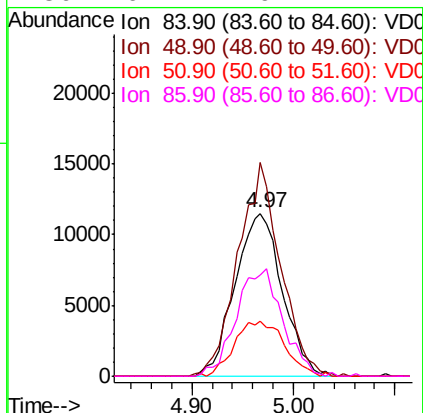




#20
Methylene Chloride
Concen: 11.486 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.00 min
Lab File: VD066000.D
Acq: 22 Jul 2020 14:33

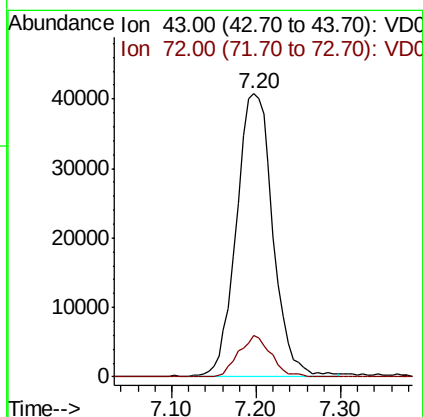
Instrument :
MSVOA_D
ClientSampled :
221

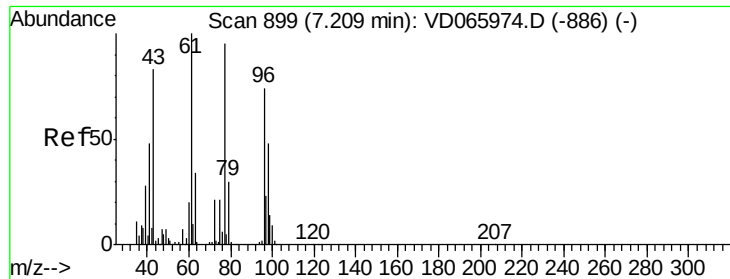
Tot Ion: 84 Resp: 37274
Ion Ratio Lower Upper
84 100
49 130.9 97.7 146.5
51 33.7 27.4 41.2
86 62.1 49.4 74.2



#25
2-Butanone
Concen: 188.165 ug/l
RT: 7.20 min Scan# 897
Delta R.T. -0.02 min
Lab File: VD066000.D
Acq: 22 Jul 2020 14:33

Tgt Ion: 43 Resp: 122229
Ion Ratio Lower Upper
43 100
72 14.5 20.2 30.2#

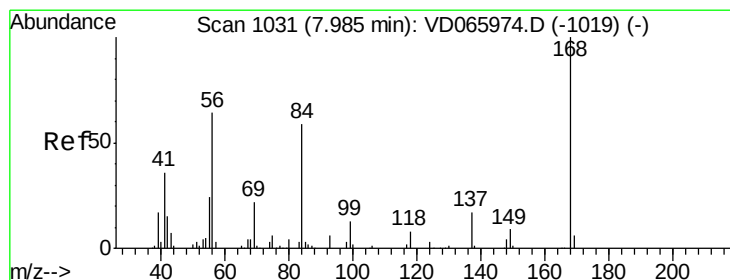
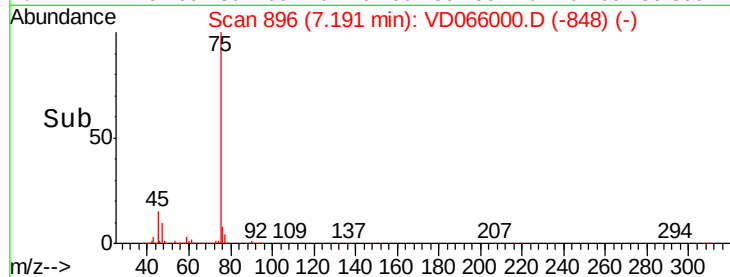
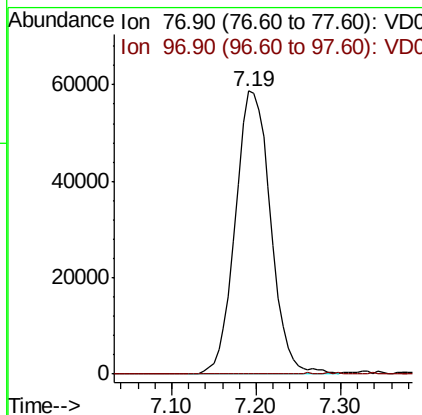
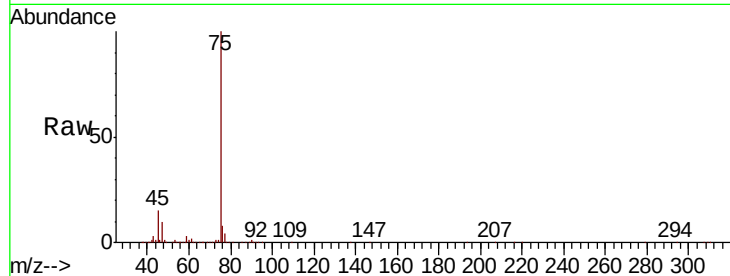




#26
 2,2-Dichloropropane
 Concen: 42.787 ug/l
 RT: 7.19 min Scan# 896
 Delta R.T. -0.02 min
 Lab File: VD066000.D
 Acq: 22 Jul 2020 14:33

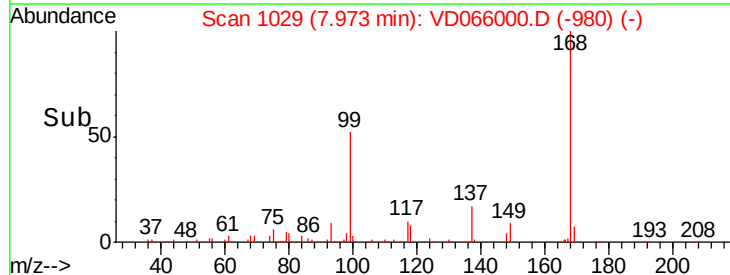
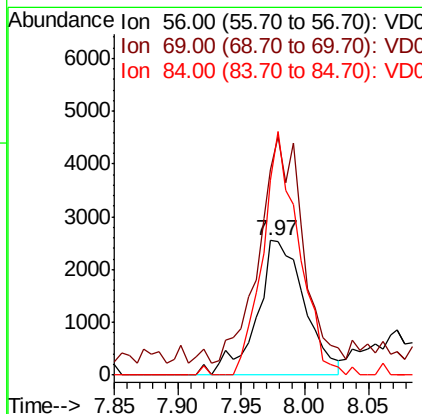
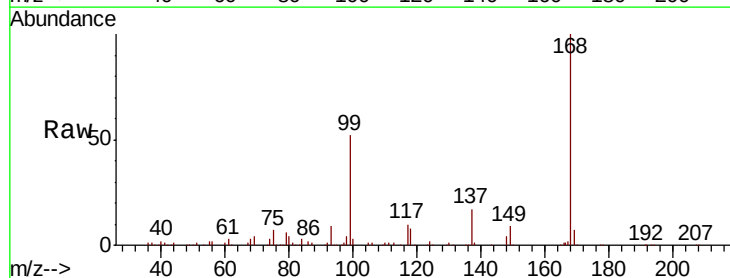
Instrument :
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 ClientSampleId :
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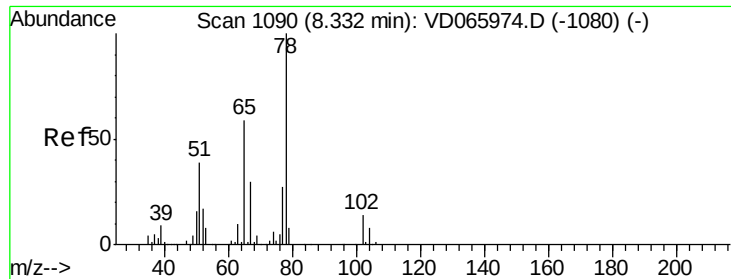
Tot Ion: 77 Resp: 170145
 Ion Ratio Lower Upper
 77 100
 97 0.1 11.6 34.7#



#31
 Cyclohexane
 Concen: 1.543 ug/l
 RT: 7.97 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: VD066000.D
 Acq: 22 Jul 2020 14:33

Tgt Ion: 56 Resp: 6713
 Ion Ratio Lower Upper
 56 100
 69 143.1 28.0 42.0#
 84 144.5 72.6 109.0#

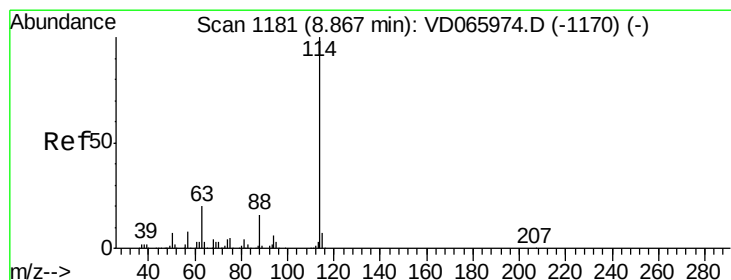
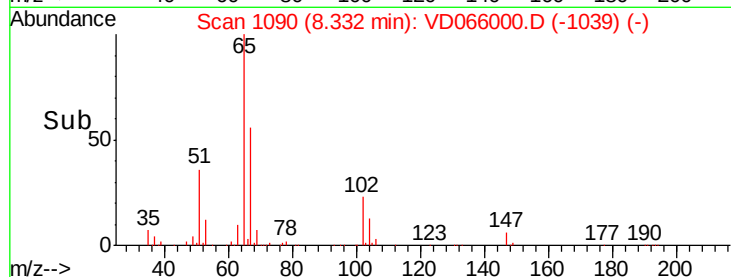
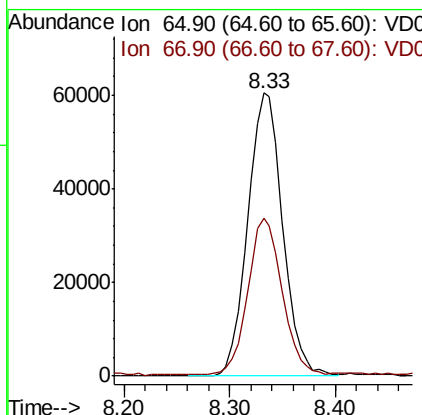
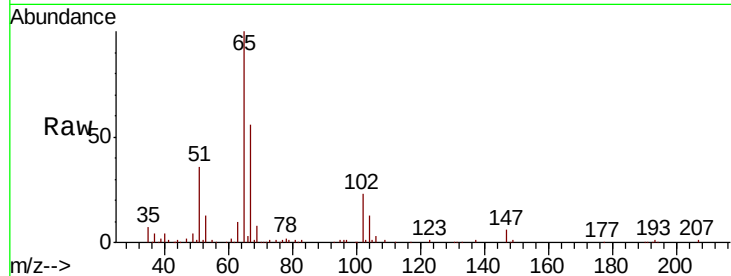




#33
 1,2-Dichloroethane-d4
 Concen: 57.493 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.00 min
 Lab File: VD066000.D
 Acq: 22 Jul 2020 14:33

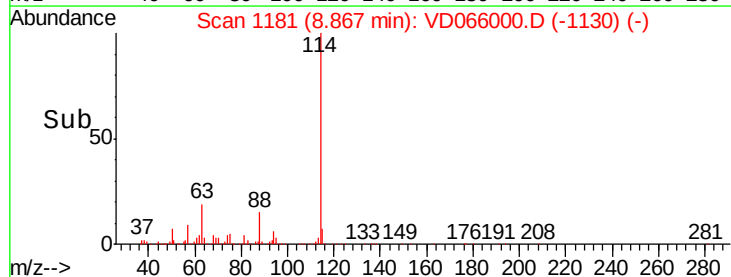
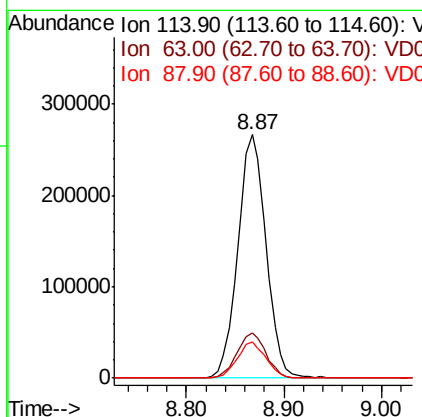
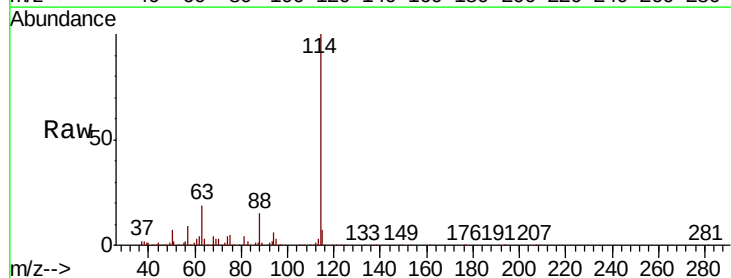
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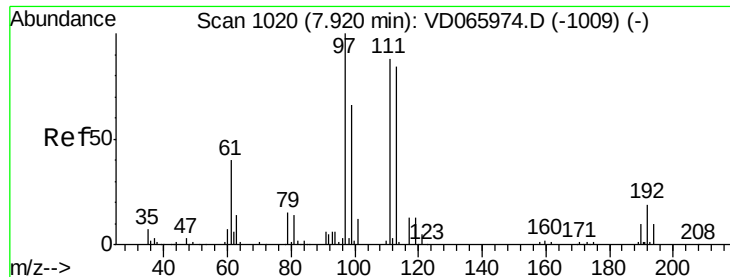
Tot Ion: 65 Resp: 139048
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD066000.D
 Acq: 22 Jul 2020 14:33

Tgt Ion: 114 Resp: 534592
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 39.6
 88 14.9 0.0 31.2

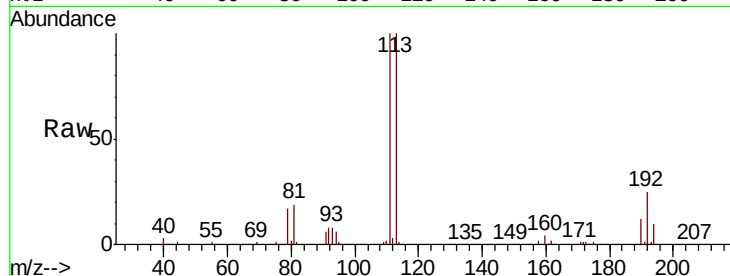




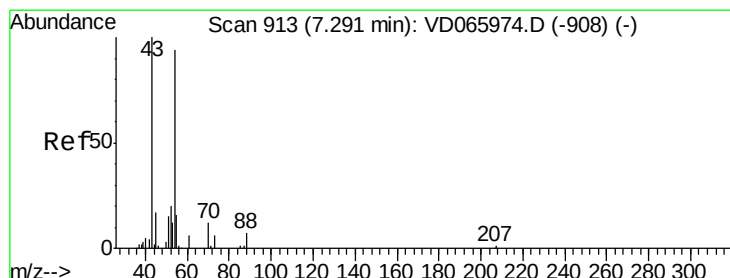
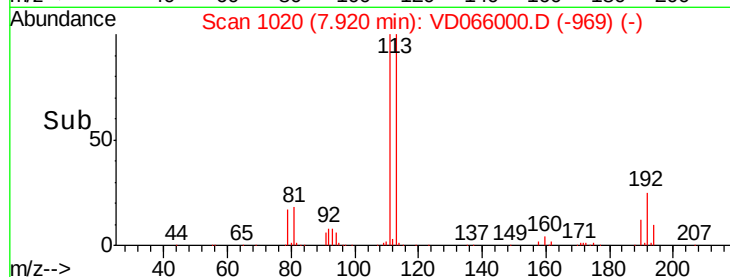
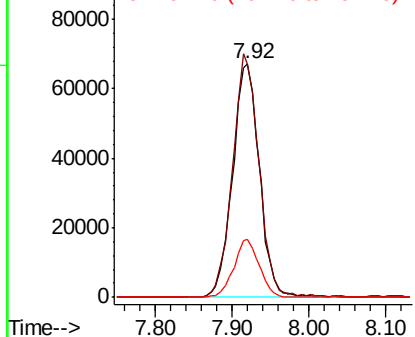
#35
Dibromofluoromethane
Concen: 50.488 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VD066000.D
Acq: 22 Jul 2020 14:33

Instrument :
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ClientSampleId :
221

Tot Ion:113 Resp: 163706
Ion Ratio Lower Upper
113 100
111 102.7 83.2 124.8
192 23.5 18.7 28.1

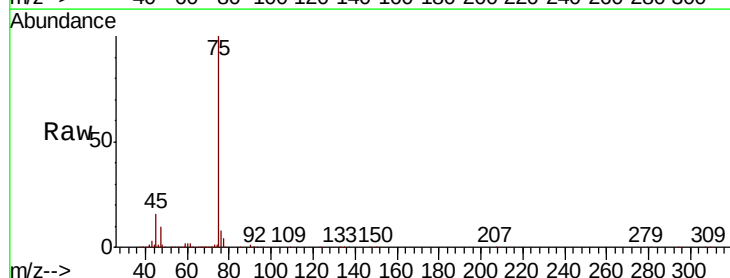


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

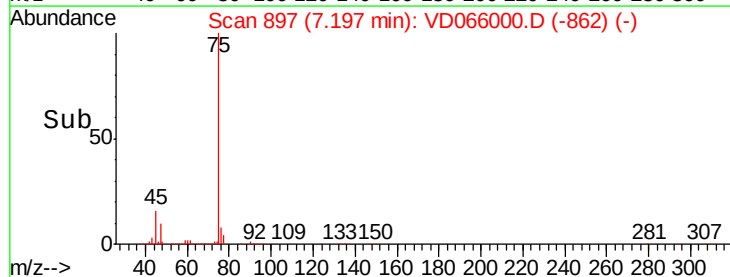
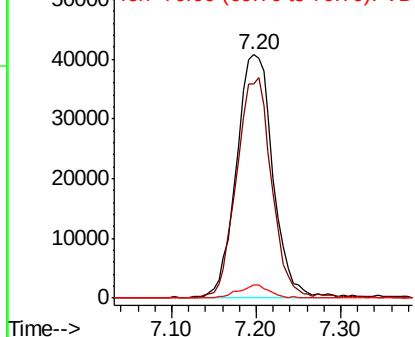


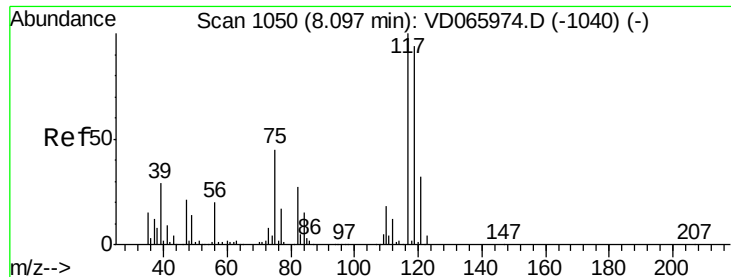
#37
Ethyl Acetate
Concen: 70.149 ug/l
RT: 7.20 min Scan# 897
Delta R.T. -0.09 min
Lab File: VD066000.D
Acq: 22 Jul 2020 14:33

Tgt Ion: 43 Resp: 122229
Ion Ratio Lower Upper
43 100
61 86.0 11.4 17.0#
70 4.7 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: 5.616 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD066000.D

Acq: 22 Jul 2020 14:33

Instrument :

MSVOA_D

ClientSampleId :

221

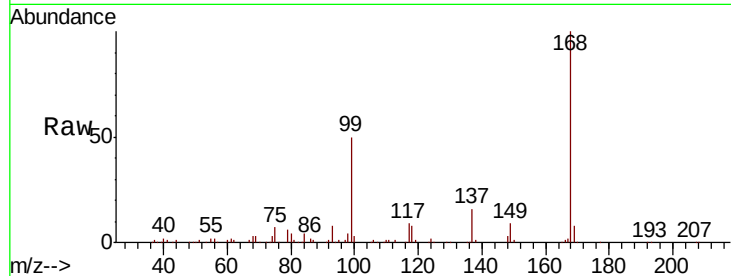
Tot Ion:117 Resp: 27803

Ion Ratio Lower Upper

117 100

119 7.4 75.0 112.6#

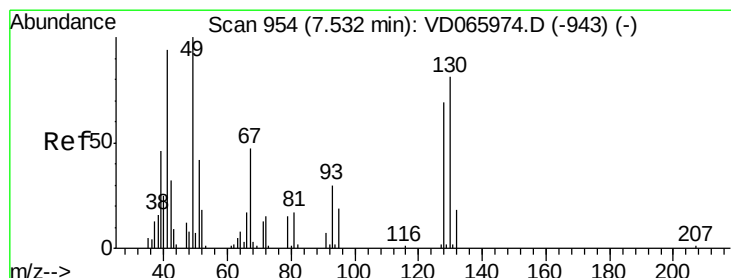
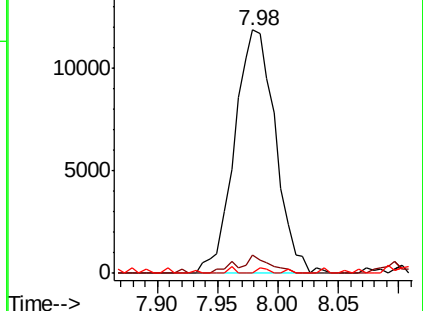
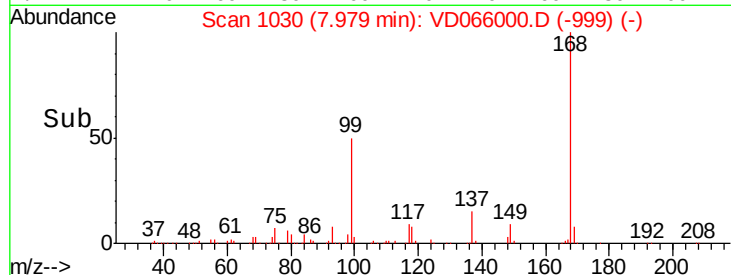
121 0.0 25.5 38.3#



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



#41

Methacrylonitrile

Concen: 1.397 ug/l

RT: 7.54 min Scan# 955

Delta R.T. 0.01 min

Lab File: VD066000.D

Acq: 22 Jul 2020 14:33

Tgt Ion: 41 Resp: 1394

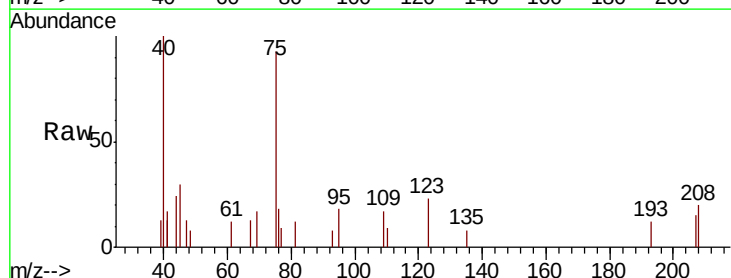
Ion Ratio Lower Upper

41 100

39 12.1 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

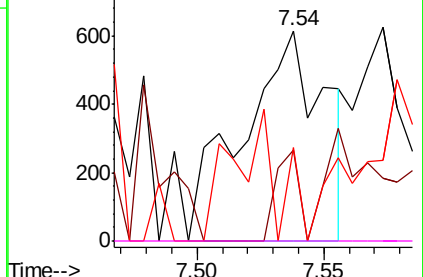
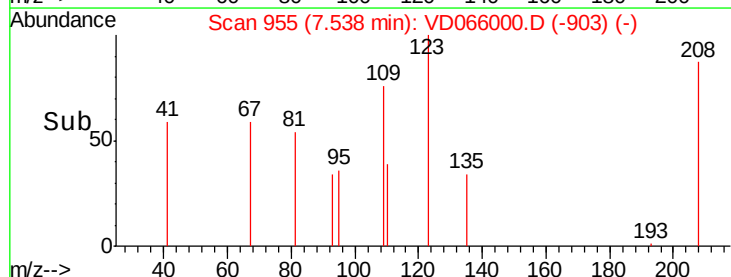


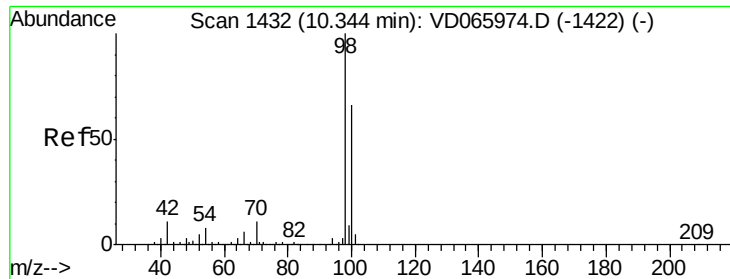
Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

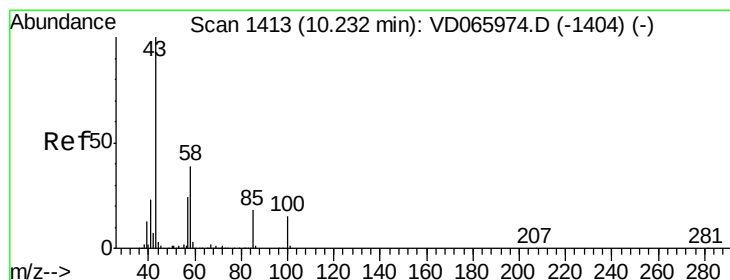
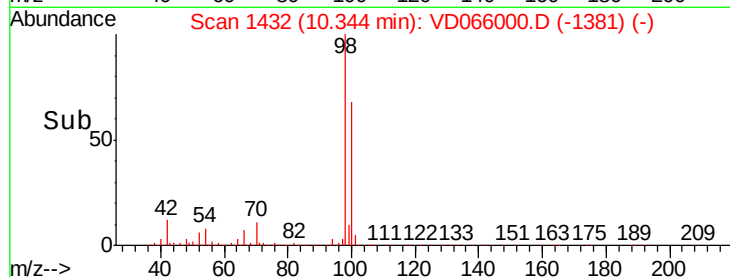
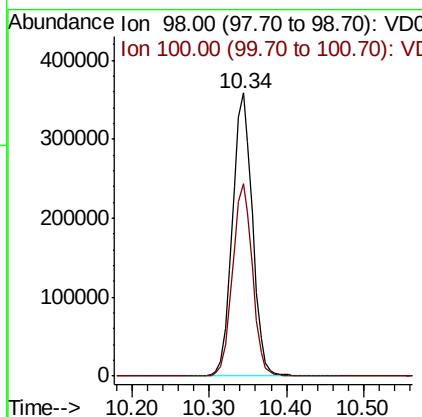
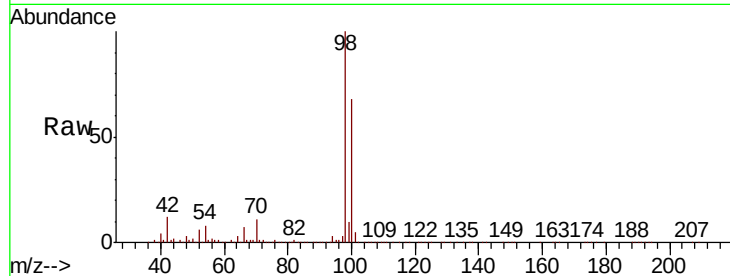




#50
Toluene-d8
Concen: 54.063 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD066000.D
Acq: 22 Jul 2020 14:33

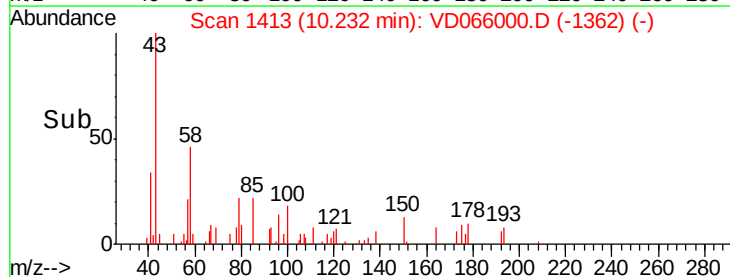
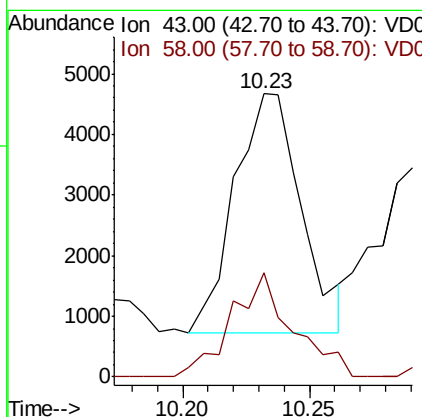
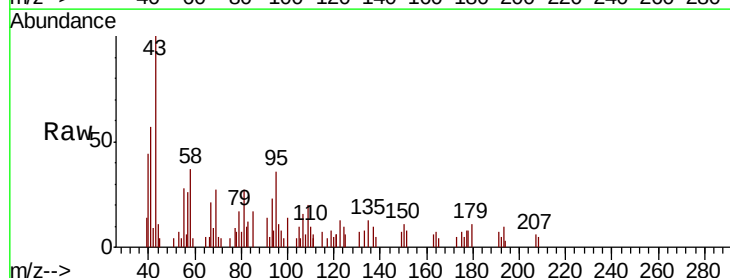
Instrument :
MSVOA_D
ClientSampleId :
221

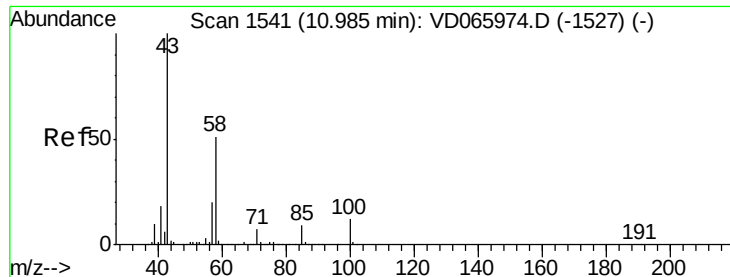
Tot Ion: 98 Resp: 653026
Ion Ratio Lower Upper
98 100
100 67.5 52.7 79.1



#51
4-Methyl-2-Pentanone
Concen: 4.210 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. -0.00 min
Lab File: VD066000.D
Acq: 22 Jul 2020 14:33

Tgt Ion: 43 Resp: 7219
Ion Ratio Lower Upper
43 100
58 40.0 31.3 46.9





#59

2-Hexanone

Concen: 92.779 ug/l

RT: 10.85 min Scan# 1518

Delta R.T. -0.14 min

Lab File: VD066000.D

Acq: 22 Jul 2020 14:33

Instrument :

MSVOA_D

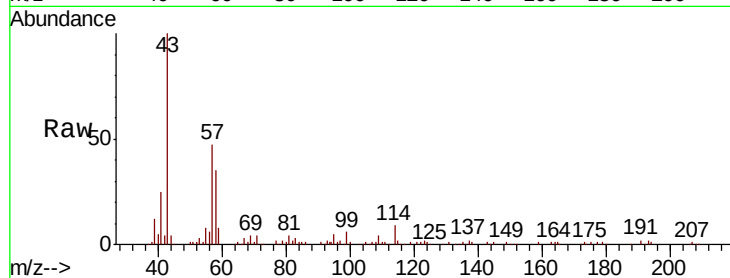
ClientSampleId :
221

Tot Ion: 43 Resp: 110247

Ion Ratio Lower Upper

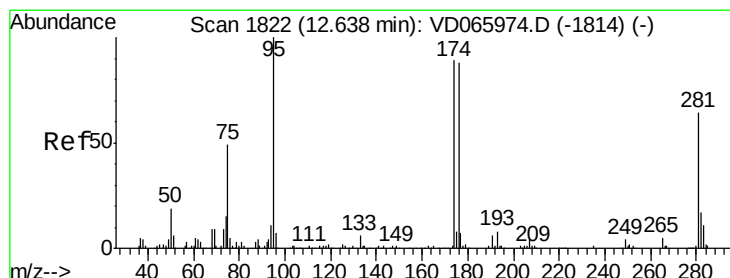
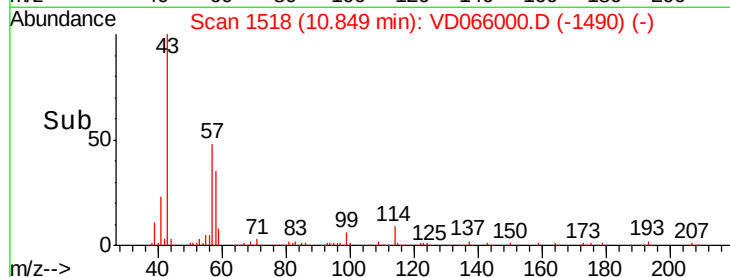
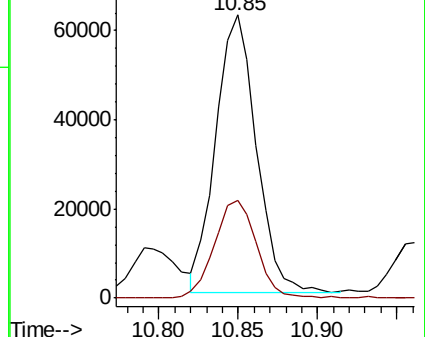
43 100

58 36.8 26.2 78.6



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 61.671 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD066000.D

Acq: 22 Jul 2020 14:33

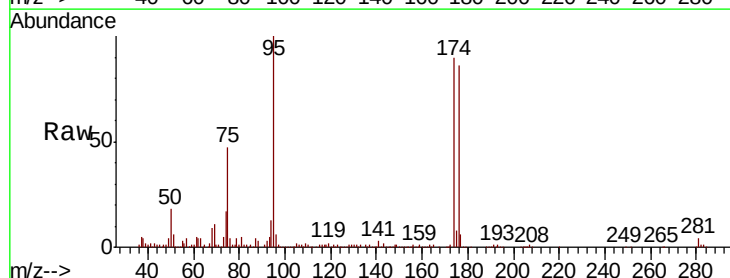
Tgt Ion: 95 Resp: 258294

Ion Ratio Lower Upper

95 100

174 91.5 0.0 178.8

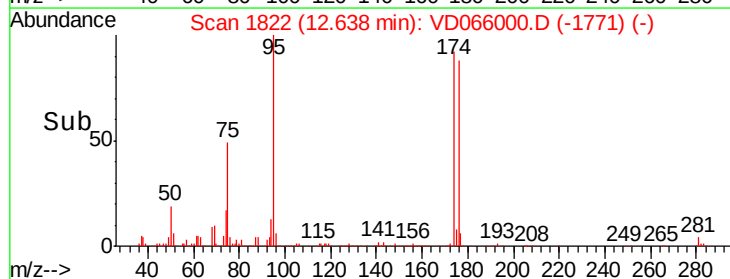
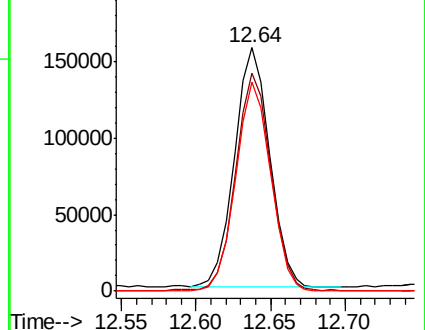
176 86.4 0.0 172.6

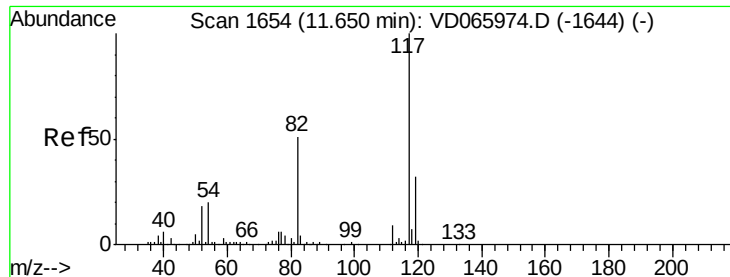


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

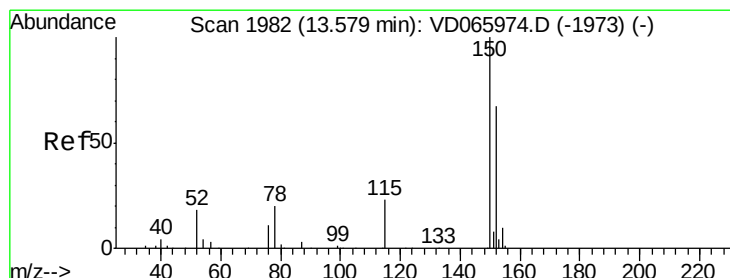
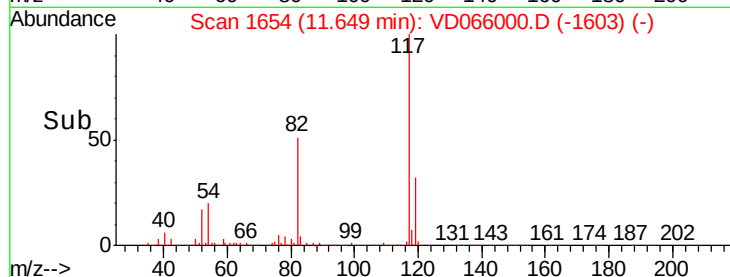
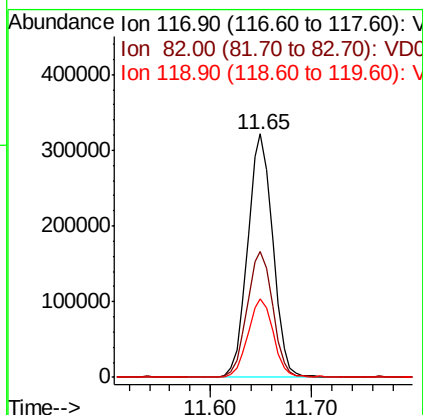
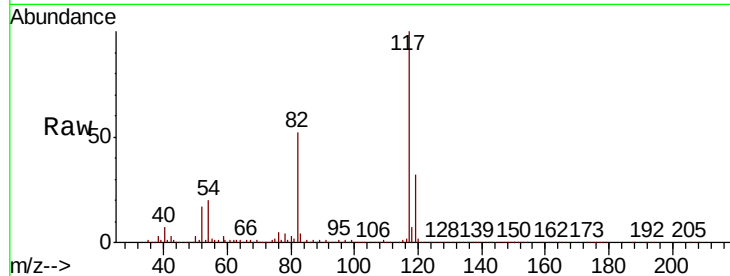




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD066000.D
Acq: 22 Jul 2020 14:33

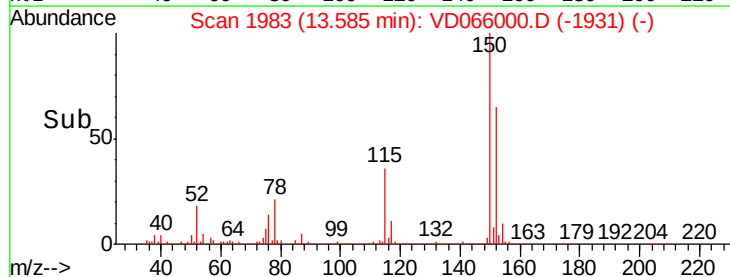
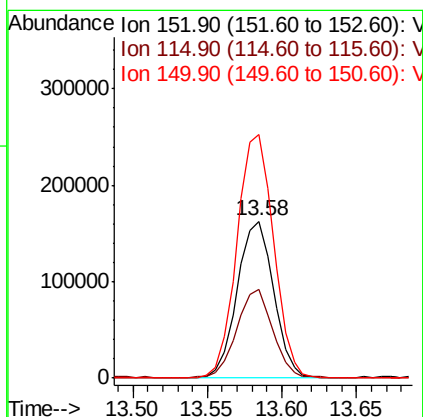
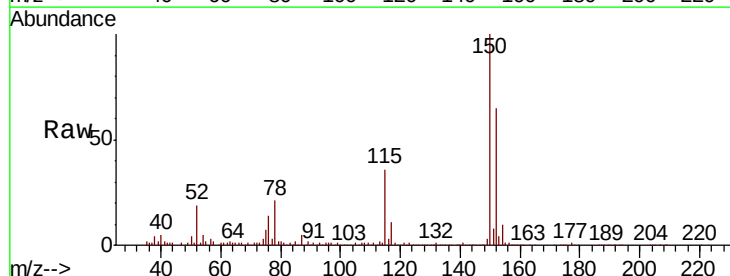
Instrument :
MSVOA_D
ClientSampleId :
221

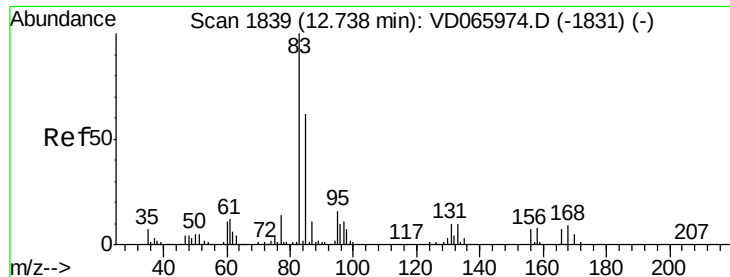
Tot Ion:117 Resp: 550673
Ion Ratio Lower Upper
117 100
82 51.4 41.1 61.7
119 32.2 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VD066000.D
Acq: 22 Jul 2020 14:33

Tgt Ion:152 Resp: 273858
Ion Ratio Lower Upper
152 100
115 56.0 27.9 83.7
150 156.7 0.0 348.2





#75

1,1,2,2-Tetrachloroethane

Concen: 8.497 ug/l

RT: 12.80 min Scan# 1850

Delta R.T. 0.06 min

Lab File: VD066000.D

Acq: 22 Jul 2020 14:33

Instrument :

MSVOA_D

ClientSampleId :

221

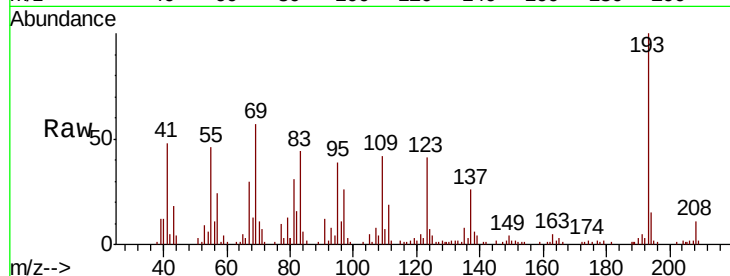
Tot Ion: 83 Resp: 23270

Ion Ratio Lower Upper

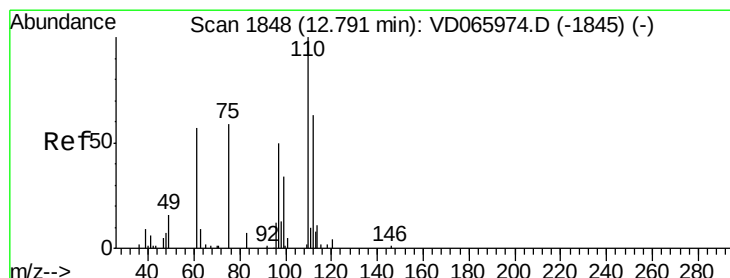
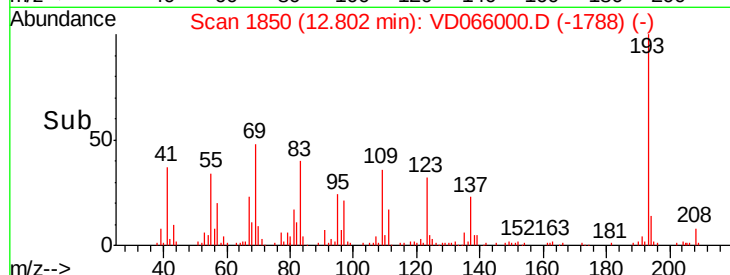
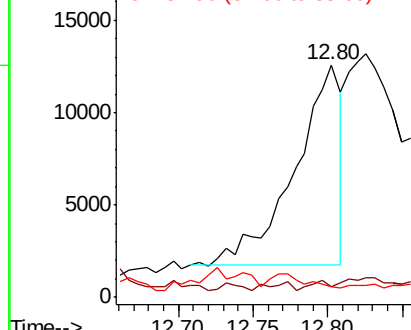
83 100

131 1.9 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: 60.583 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD066000.D

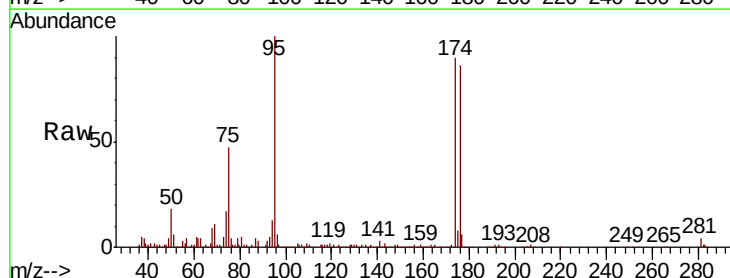
Acq: 22 Jul 2020 14:33

Tgt Ion: 75 Resp: 124923

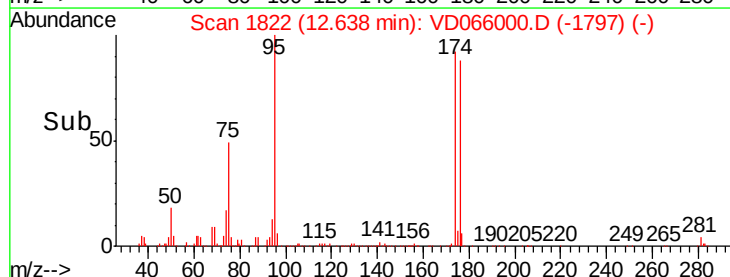
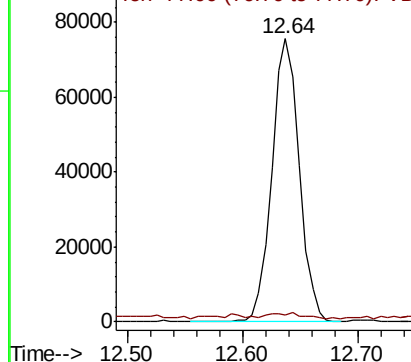
Ion Ratio Lower Upper

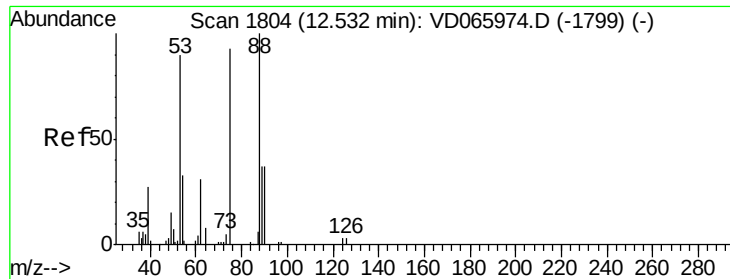
75 100

77 3.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 77.00 (76.70 to 77.70): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 139.017 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD066000.D

Acq: 22 Jul 2020 14:33

Instrument :

MSVOA_D

ClientSampled :

221

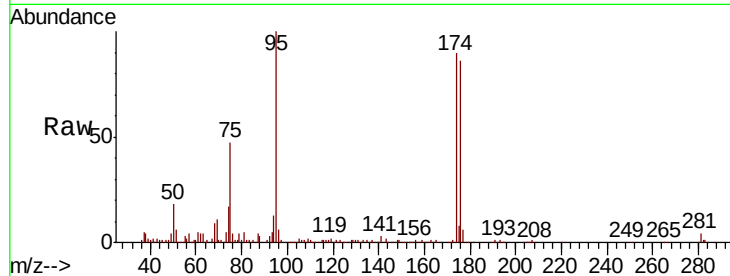
Tot Ion: 75 Resp: 124923

Ion Ratio Lower Upper

75 100

53 0.0 76.8 115.2#

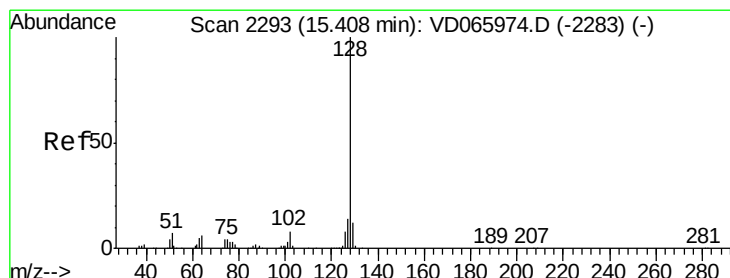
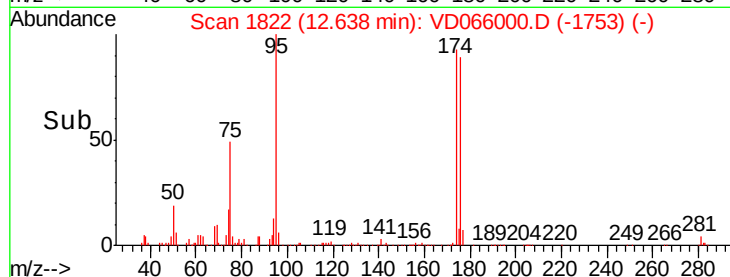
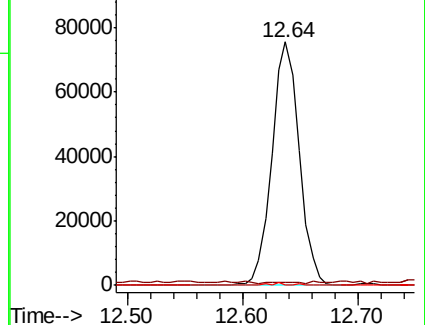
89 0.2 37.0 55.4#



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

Naphthalene

Concen: 3.914 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. 0.00 min

Lab File: VD066000.D

Acq: 22 Jul 2020 14:33

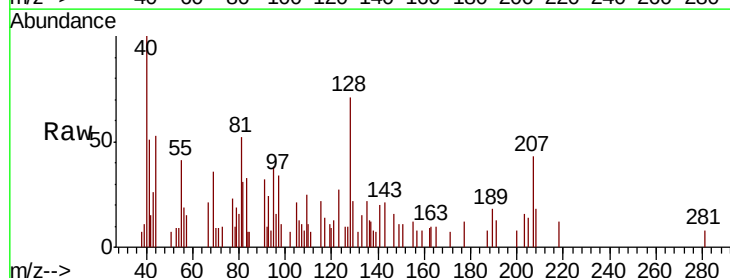
Tgt Ion:128 Resp: 3432

Ion Ratio Lower Upper

128 100

127 14.6 10.8 16.2

129 26.2 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

