

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050720\
 Data File : VN061334.D
 Acq On : 7 May 2020 15:20
 Operator : JC/MD
 Sample : L2523-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 08 02:27:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042720W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 05 07:01:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	92327	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	169342	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	171636	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	72129	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	79724	54.57	ug/l	0.00
Spiked Amount			Recovery	=	109.14%	
35) Dibromofluoromethane	7.55	113	52720	52.65	ug/l	0.00
Spiked Amount			Recovery	=	105.30%	
50) Toluene-d8	10.06	98	220215	53.95	ug/l	0.00
Spiked Amount			Recovery	=	107.90%	
62) 4-Bromofluorobenzene	12.38	95	81694	53.18	ug/l	0.00
Spiked Amount			Recovery	=	106.36%	

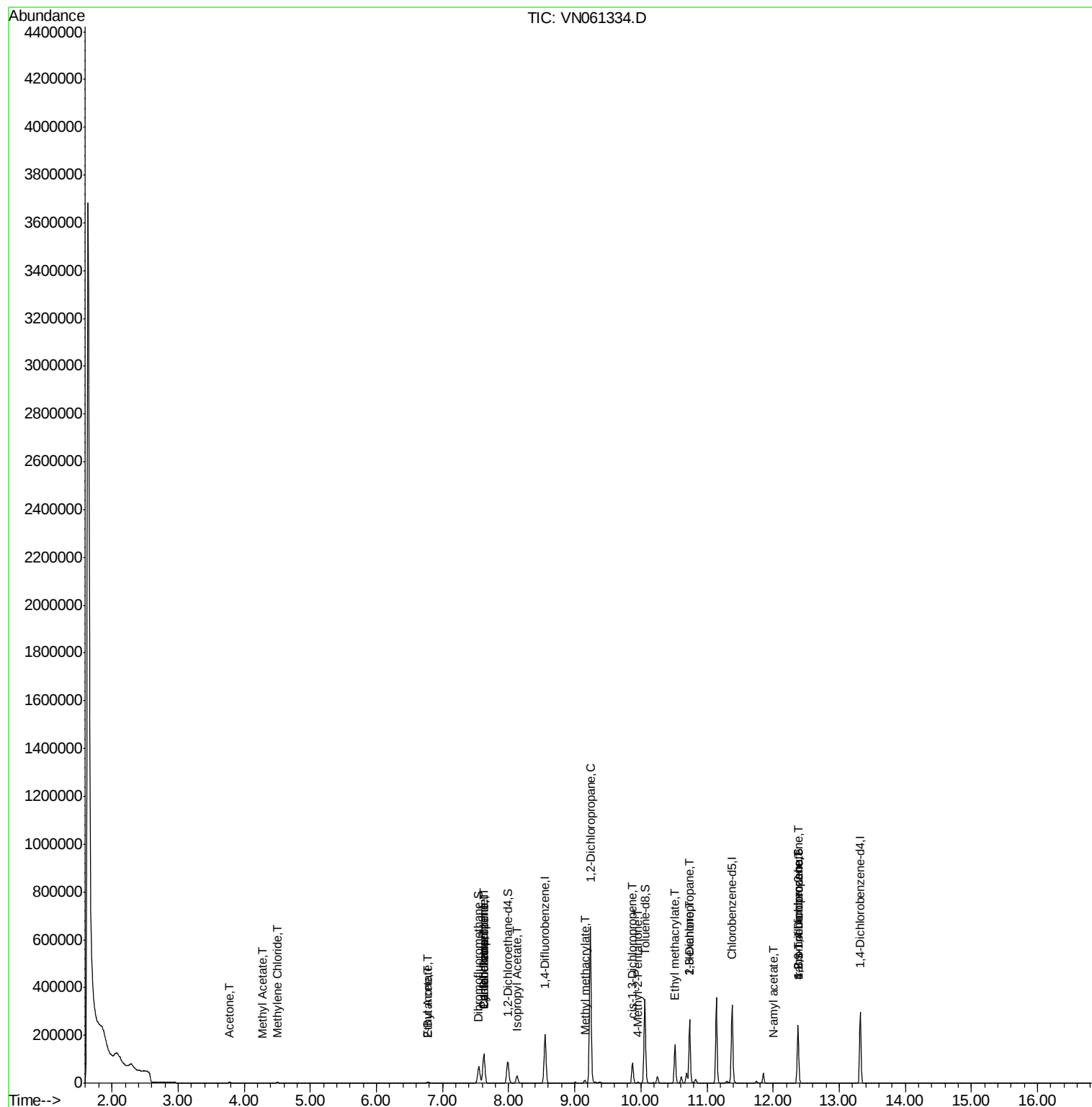
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.77	43	8049	8.918	ug/l	93
18) Methyl Acetate	4.27	43	1121	1.279	ug/l #	55
20) Methylene Chloride	4.50	84	1788	1.570	ug/l #	92
25) 2-Butanone	6.79	43	1819	2.104	ug/l #	53
31) Cyclohexane	7.63	56	2534	1.192	ug/l #	16
36) 1,1-Dichloropropene	7.62	75	8627	5.089	ug/l #	49
37) Ethyl Acetate	6.79	43	1819	0.915	ug/l #	71
38) Carbon Tetrachloride	7.62	117	10194	8.576	ug/l #	16
43) Isopropyl Acetate	8.13	43	36429	11.045	ug/l #	89
45) 1,2-Dichloropropane	9.24	63	643	0.477	ug/l #	44
48) Methyl methacrylate	9.15	41	1959	1.316	ug/l #	16
51) 4-Methyl-2-Pentanone	9.95	43	3581	1.845	ug/l	99
54) cis-1,3-Dichloropropene	9.87	75	13478	6.310	ug/l #	64
56) Ethyl methacrylate	10.52	69	502	2.951	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	2425	1.137	ug/l #	43
59) 2-Hexanone	10.74	43	41385	29.301	ug/l #	53
74) N-amyl acetate	12.00	43	1668	0.621	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	45219	29.736	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	45219	75.514	ug/l #	8

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VN061334.D

Acq: 7 May 2020 15:20

Instrument :

MSVOA_N

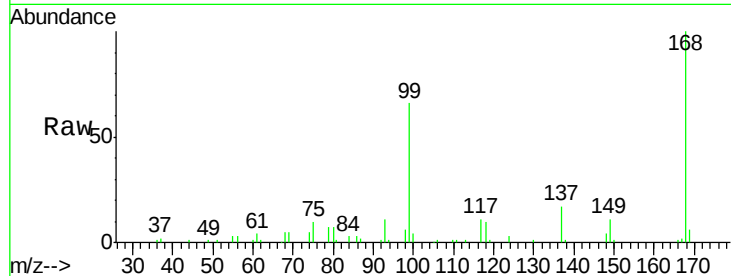
ClientSampled :

Tot Ion:168 Resp: 92327

Ion Ratio Lower Upper

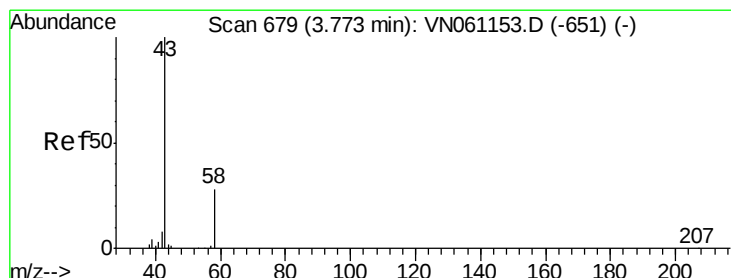
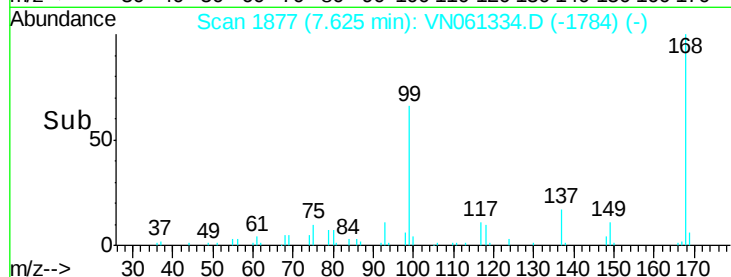
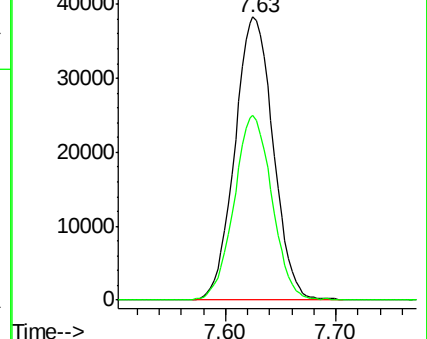
168 100

99 65.5 51.2 76.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 8.918 ug/l

RT: 3.77 min Scan# 679

Delta R.T. 0.00 min

Lab File: VN061334.D

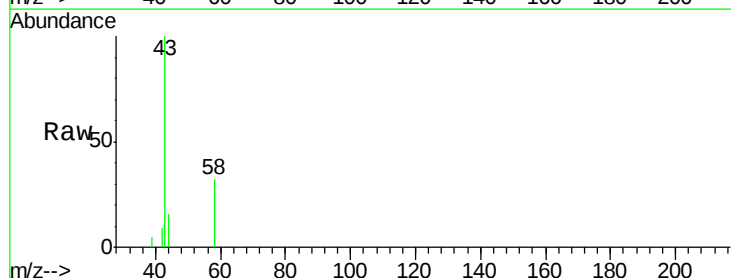
Acq: 7 May 2020 15:20

Tgt Ion: 43 Resp: 8049

Ion Ratio Lower Upper

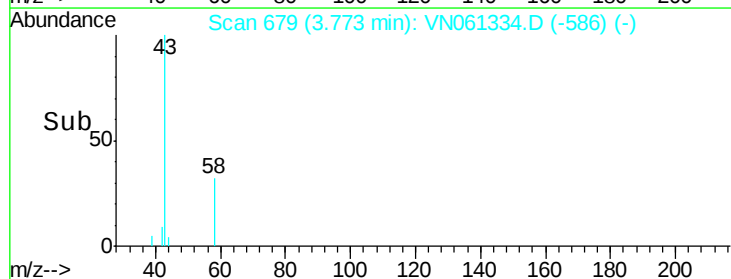
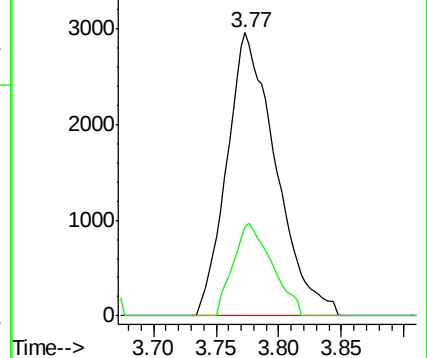
43 100

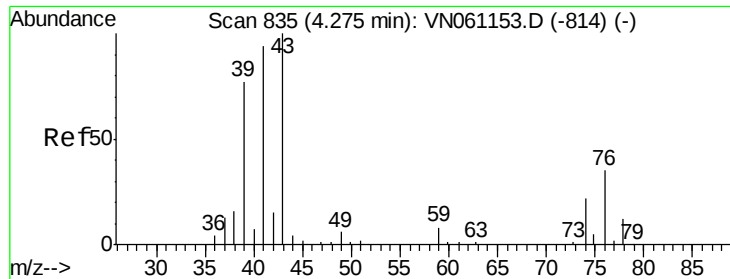
58 31.6 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

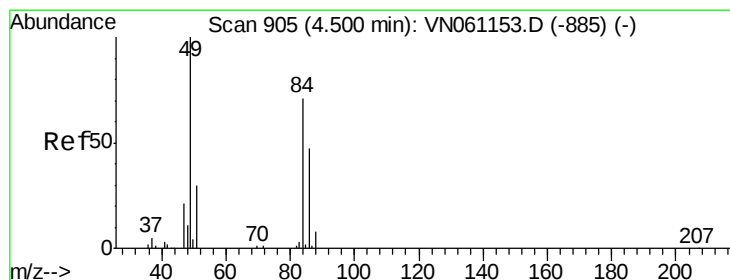
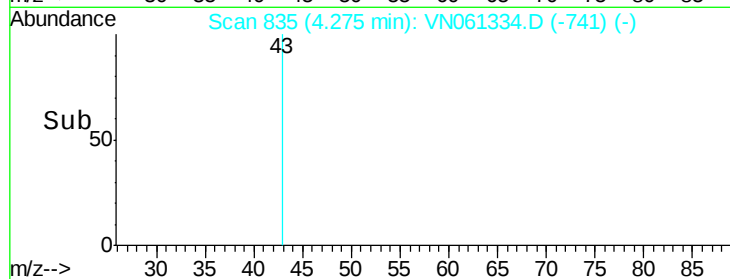
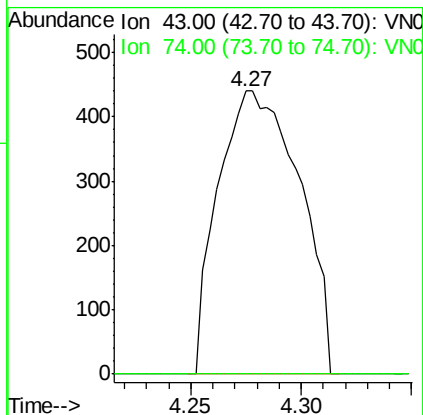
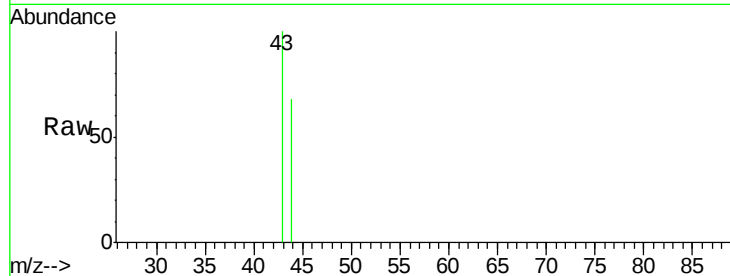




#18
Methyl Acetate
Concen: 1.279 ug/l
RT: 4.27 min Scan# 835
Delta R.T. 0.00 min
Lab File: VN061334.D
Acq: 7 May 2020 15:20

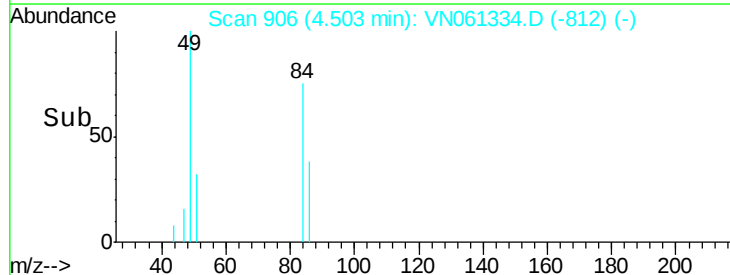
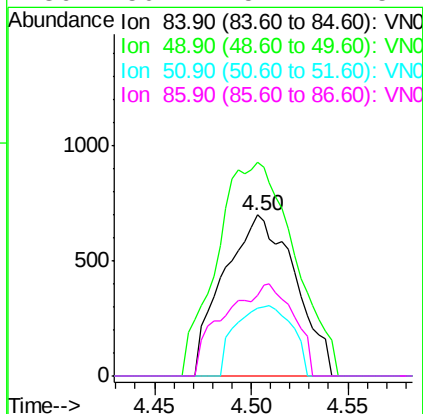
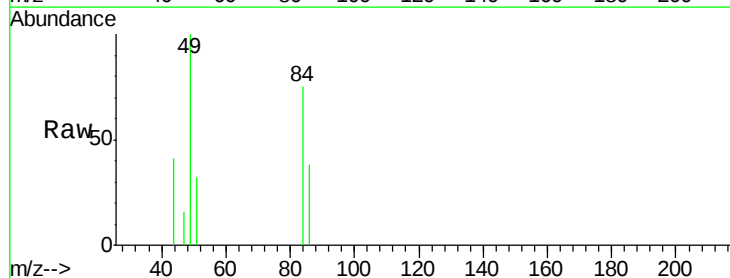
Instrument :
MSVOA_N
ClientSampled :

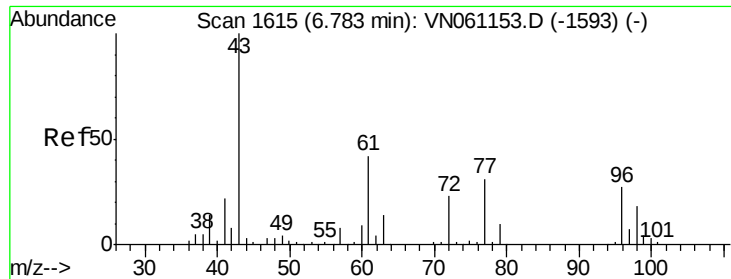
Tot Ion: 43 Resp: 1121
Ion Ratio Lower Upper
43 100
74 0.0 17.0 25.4#



#20
Methylene Chloride
Concen: 1.570 ug/l
RT: 4.50 min Scan# 906
Delta R.T. 0.00 min
Lab File: VN061334.D
Acq: 7 May 2020 15:20

Tgt Ion: 84 Resp: 1788
Ion Ratio Lower Upper
84 100
49 132.9 112.0 168.0
51 42.0 33.6 50.4
86 50.1 52.1 78.1#

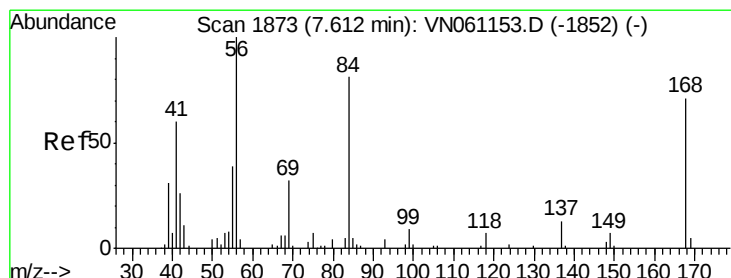
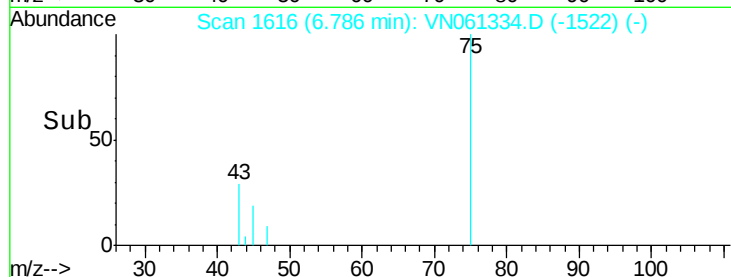
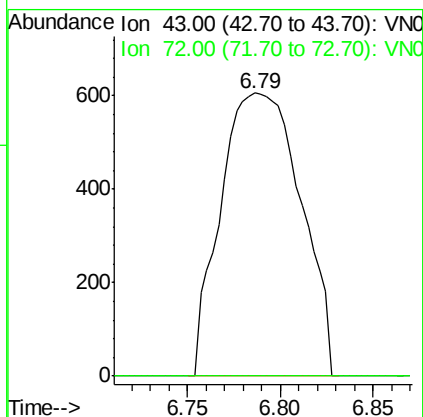
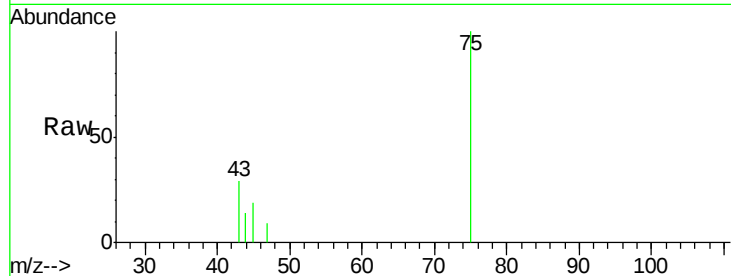




#25
2-Butanone
Concen: 2.104 ug/l
RT: 6.79 min Scan# 1616
Delta R.T. 0.00 min
Lab File: VN061334.D
Acq: 7 May 2020 15:20

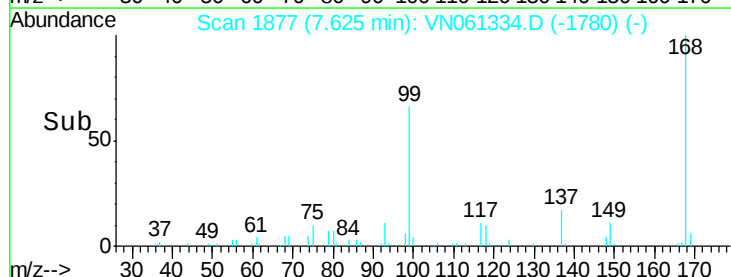
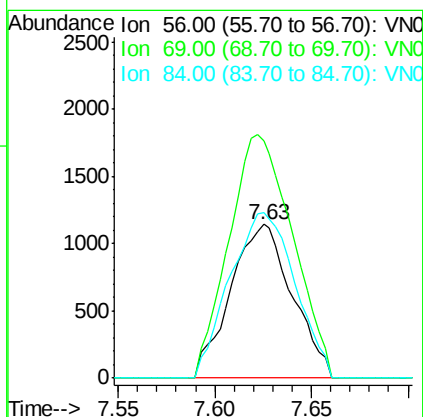
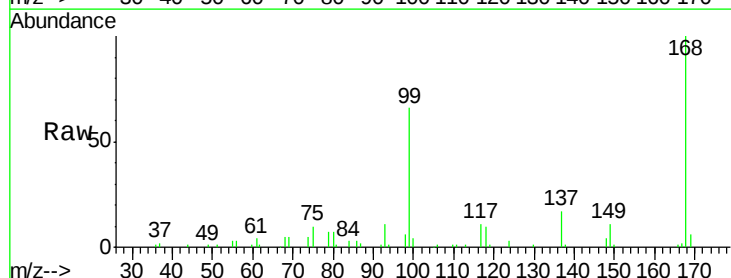
Instrument :
MSVOA_N
ClientSampleId :

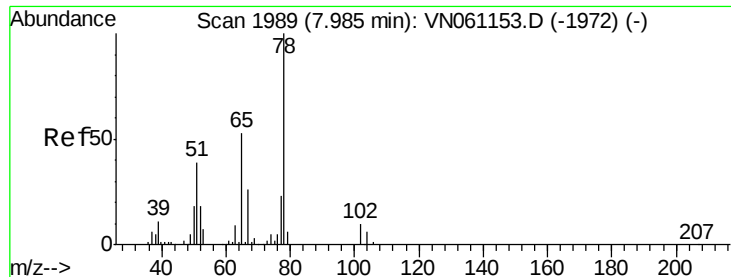
Tot Ion: 43 Resp: 1819
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.4#



#31
Cyclohexane
Concen: 1.192 ug/l
RT: 7.63 min Scan# 1877
Delta R.T. 0.01 min
Lab File: VN061334.D
Acq: 7 May 2020 15:20

Tgt Ion: 56 Resp: 2534
Ion Ratio Lower Upper
56 100
69 154.6 25.7 38.5#
84 107.5 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 54.572 ug/l

RT: 7.99 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN061334.D

Acq: 7 May 2020 15:20

Instrument :

MSVOA_N

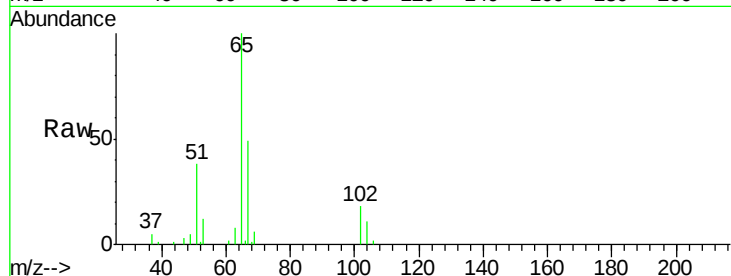
ClientSampleId :

Tot Ion: 65 Resp: 79724

Ion Ratio Lower Upper

65 100

67 50.7 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VN061153.D (-1972) (-)

Ion 66.90 (66.60 to 67.60): VN061153.D (-1972) (-)

7.99

40000

30000

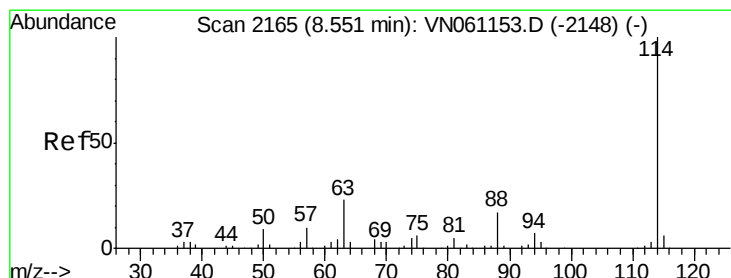
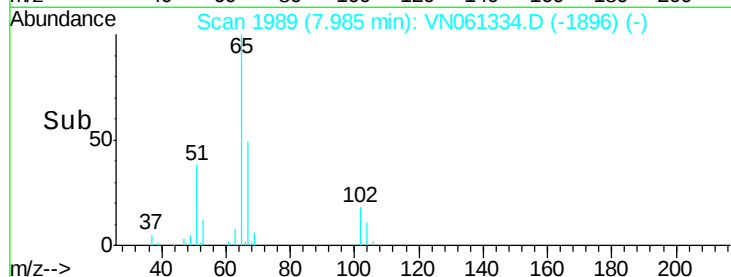
20000

10000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VN061334.D

Acq: 7 May 2020 15:20

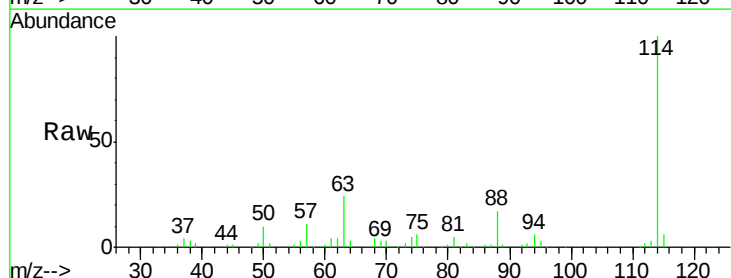
Tgt Ion: 114 Resp: 169342

Ion Ratio Lower Upper

114 100

63 24.1 0.0 46.6

88 17.0 0.0 33.4



Abundance Ion 113.90 (113.60 to 114.60): VN061153.D (-2148) (-)

Ion 63.00 (62.70 to 63.70): VN061153.D (-2148) (-)

Ion 87.90 (87.60 to 88.60): VN061153.D (-2148) (-)

8.55

100000

80000

60000

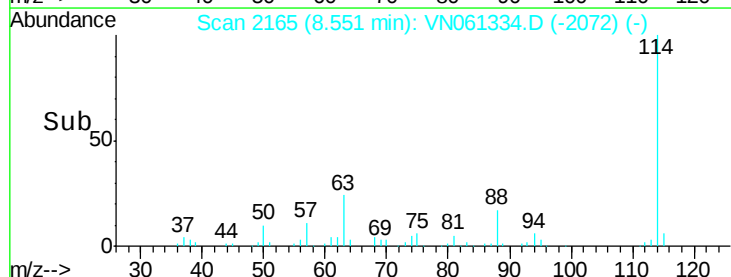
40000

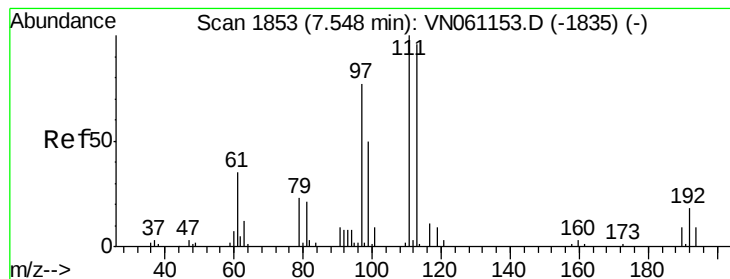
20000

0

8.50 8.60 8.70

Time-->





#35

Dibromofluoromethane

Concen: 52.648 ug/l

RT: 7.55 min Scan# 1853

Delta R.T. 0.00 min

Lab File: VN061334.D

Acq: 7 May 2020 15:20

Instrument :
MSVOA_N
ClientSampled :

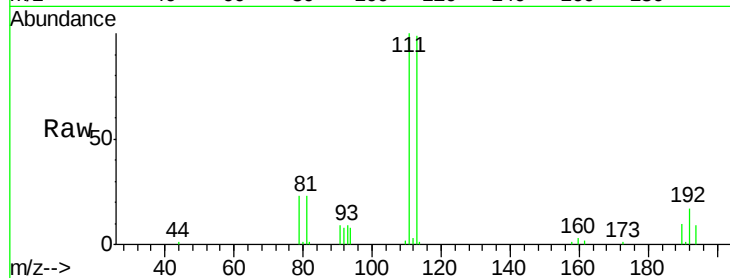
Tot Ion:113 Resp: 52720

Ion Ratio Lower Upper

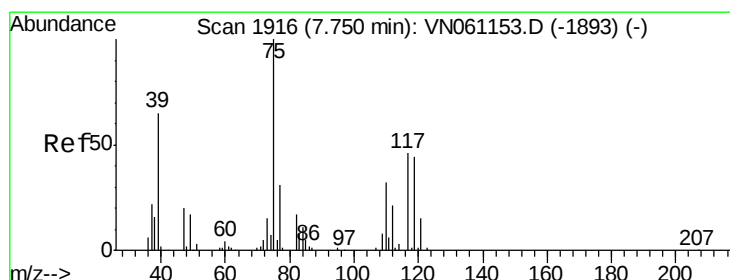
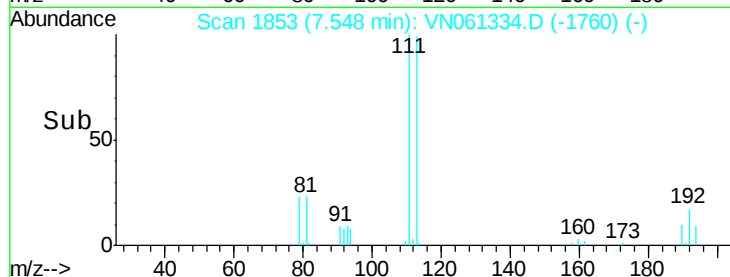
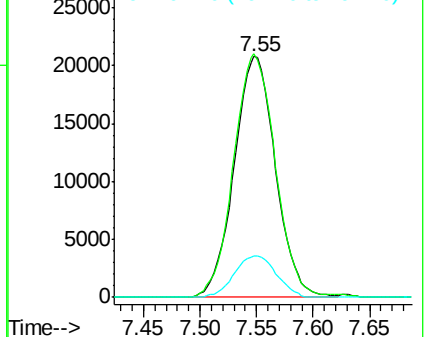
113 100

111 102.6 82.9 124.3

192 17.6 14.7 22.1



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: 5.089 ug/l

RT: 7.62 min Scan# 1876

Delta R.T. -0.13 min

Lab File: VN061334.D

Acq: 7 May 2020 15:20

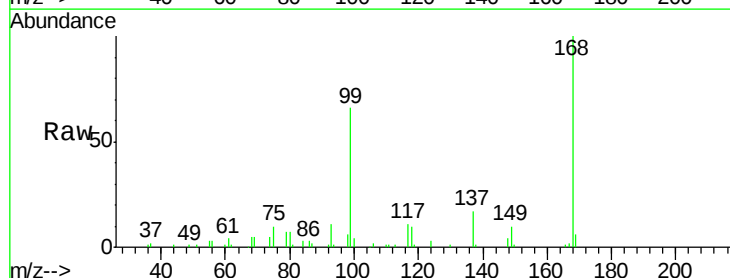
Tgt Ion: 75 Resp: 8627

Ion Ratio Lower Upper

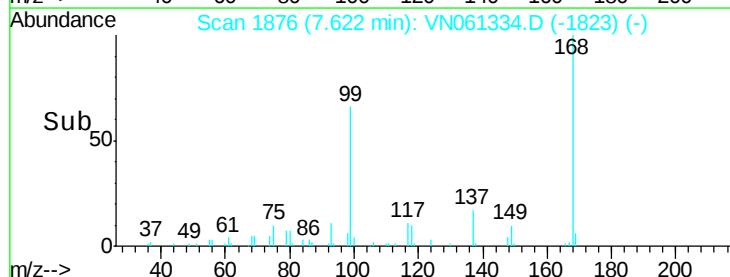
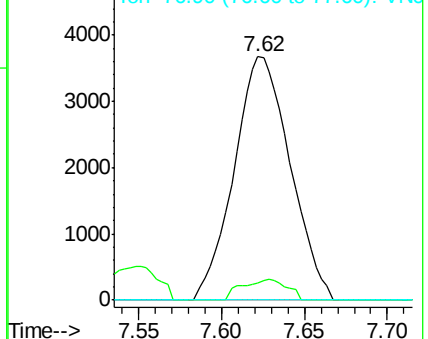
75 100

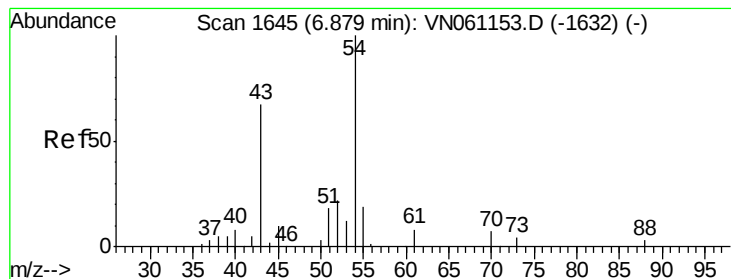
110 6.9 16.0 48.0#

77 0.0 24.6 37.0#



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





#37

Ethyl Acetate

Concen: 0.915 ug/l

RT: 6.79 min Scan# 1616

Delta R.T. -0.09 min

Lab File: VN061334.D

Acq: 7 May 2020 15:20

Instrument :

MSVOA_N

ClientSampled :

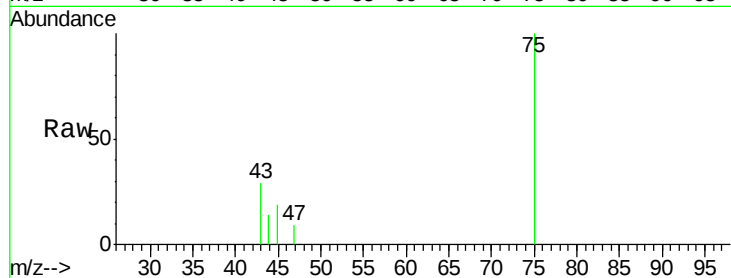
Tot Ion: 43 Resp: 1819

Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.2#

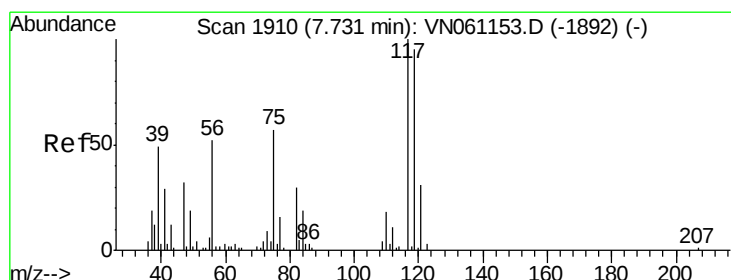
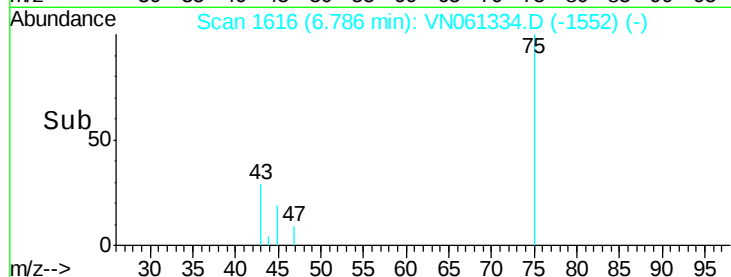
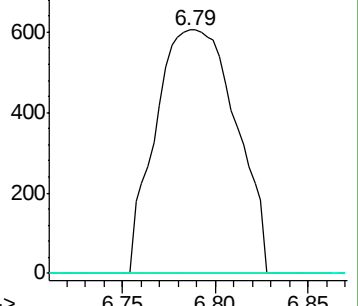
70 0.0 7.2 10.8#



Abundance Ion 43.00 (42.70 to 43.70): VN061153.D (-1632) (-)

Ion 60.90 (60.60 to 61.60): VN061153.D (-1632) (-)

Ion 70.00 (69.70 to 70.70): VN061153.D (-1632) (-)



#38

Carbon Tetrachloride

Concen: 8.576 ug/l

RT: 7.62 min Scan# 1876

Delta R.T. -0.11 min

Lab File: VN061334.D

Acq: 7 May 2020 15:20

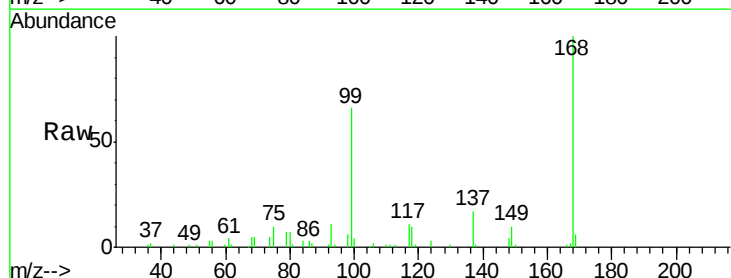
Tgt Ion: 117 Resp: 10194

Ion Ratio Lower Upper

117 100

119 5.0 75.8 113.6#

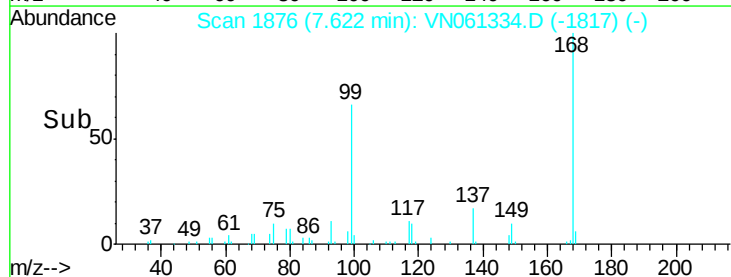
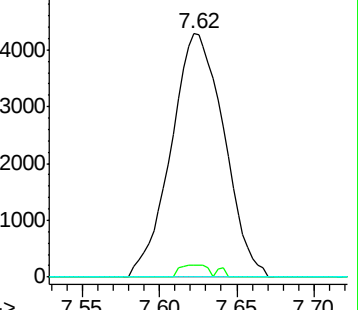
121 0.0 24.7 37.1#

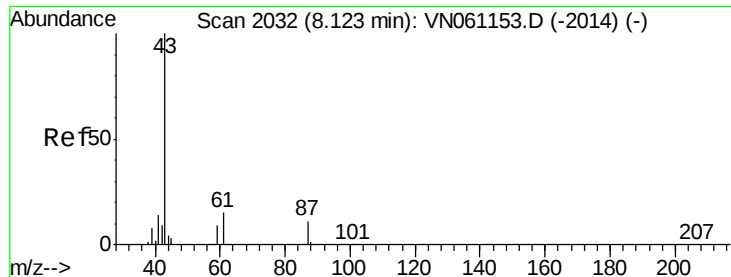


Abundance Ion 116.80 (116.50 to 117.50): VN061153.D (-1892) (-)

Ion 118.80 (118.50 to 119.50): VN061153.D (-1892) (-)

Ion 120.80 (120.50 to 121.50): VN061153.D (-1892) (-)





#43

Isopropyl Acetate

Concen: 11.045 ug/l

RT: 8.13 min Scan# 2033

Delta R.T. 0.00 min

Lab File: VN061334.D

Acq: 7 May 2020 15:20

Instrument :

MSVOA_N

ClientSampled :

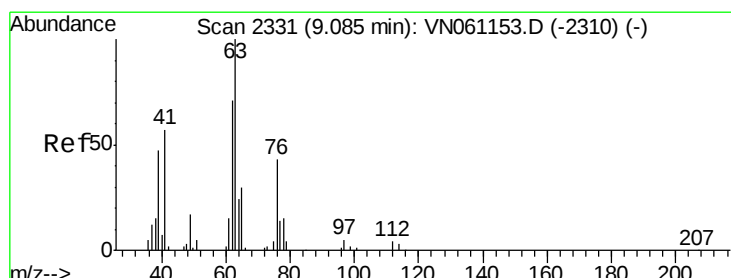
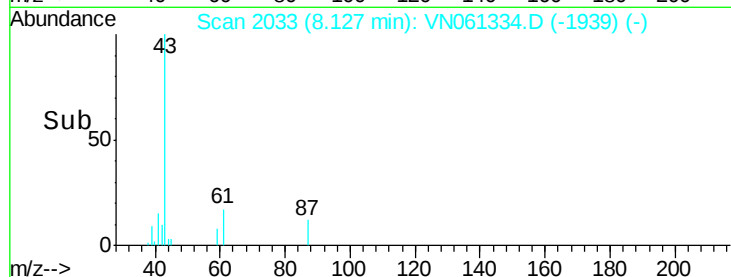
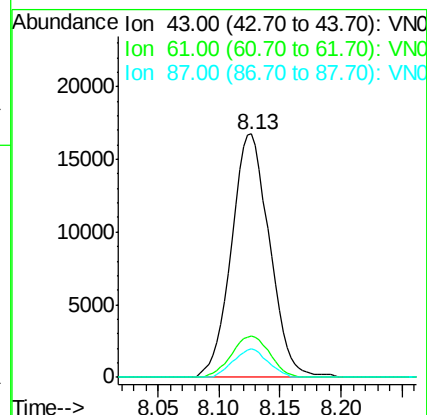
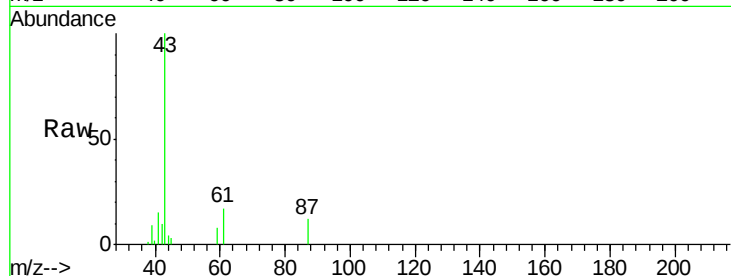
Tot Ion: 43 Resp: 36429

Ion Ratio Lower Upper

43 100

61 17.0 19.5 29.3#

87 10.5 8.9 13.3



#45

1,2-Dichloropropane

Concen: 0.477 ug/l

RT: 9.24 min Scan# 2378

Delta R.T. 0.15 min

Lab File: VN061334.D

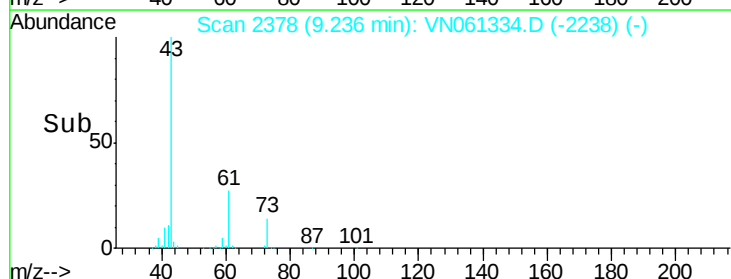
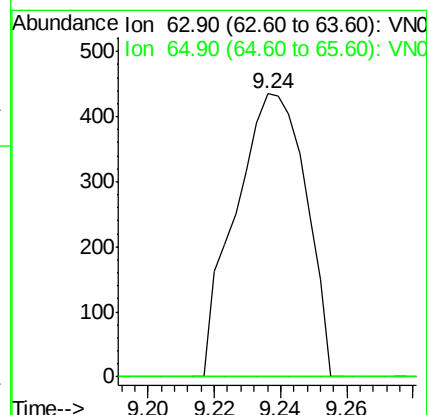
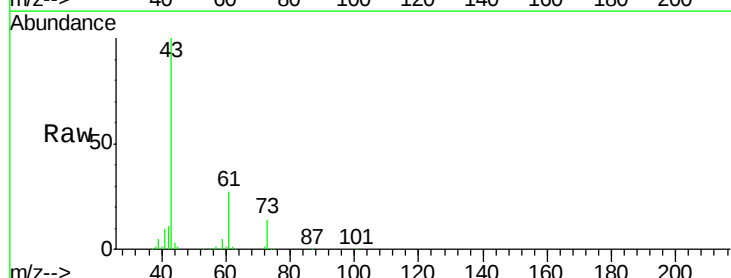
Acq: 7 May 2020 15:20

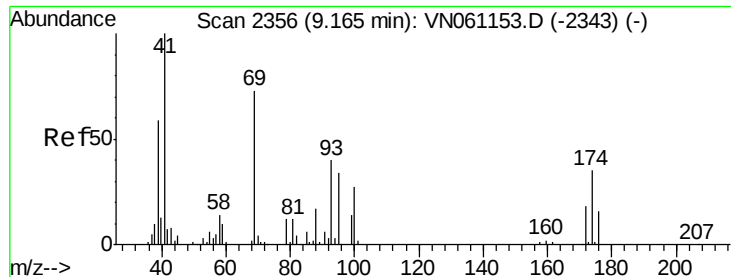
Tgt Ion: 63 Resp: 643

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#

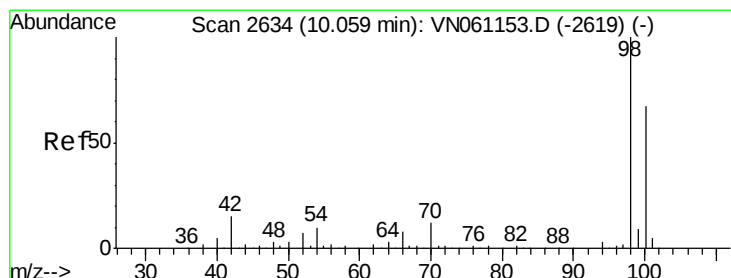
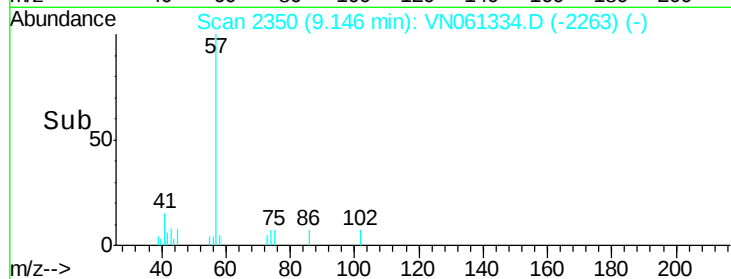
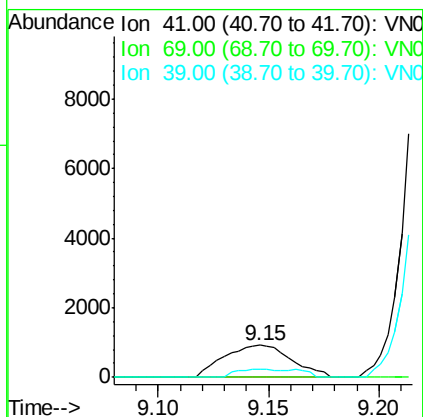
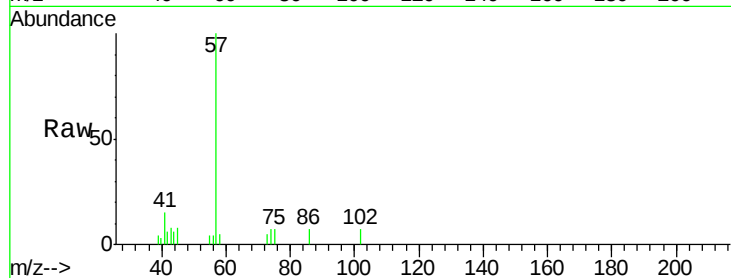




#48
Methvl methacrylate
Concen: 1.316 ug/l
RT: 9.15 min Scan# 2350
Delta R.T. -0.02 min
Lab File: VN061334.D
Acq: 7 May 2020 15:20

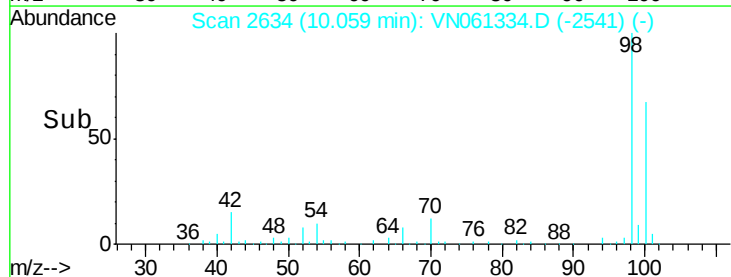
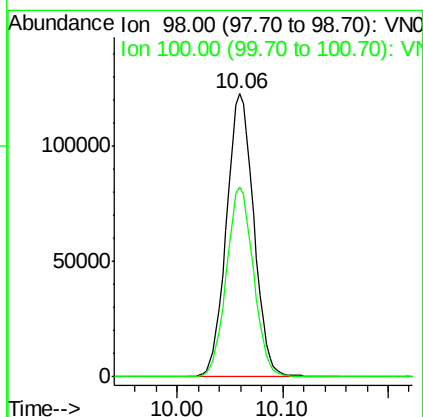
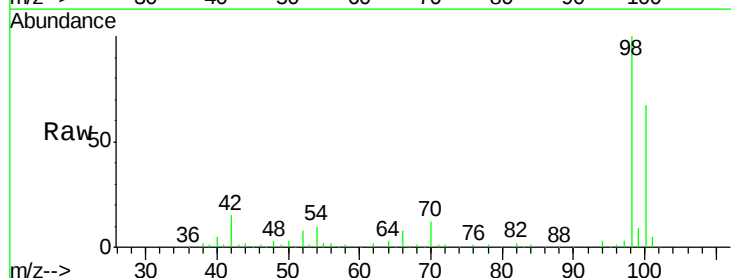
Instrument :
MSVOA_N
ClientSampleId :

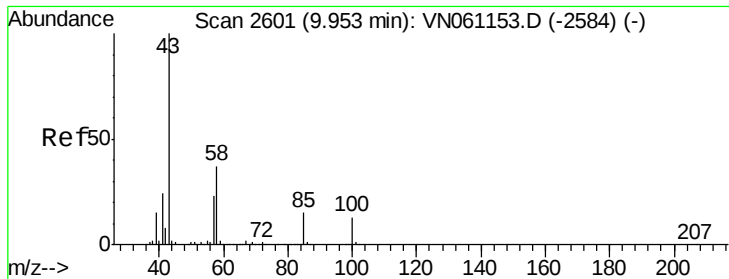
Tot Ion: 41 Resp: 1959
Ion Ratio Lower Upper
41 100
69 0.0 60.3 90.5#
39 0.0 47.4 71.0#



#50
Toluene-d8
Concen: 53.947 ug/l
RT: 10.06 min Scan# 2634
Delta R.T. 0.00 min
Lab File: VN061334.D
Acq: 7 May 2020 15:20

Tgt Ion: 98 Resp: 220215
Ion Ratio Lower Upper
98 100
100 66.5 53.4 80.0

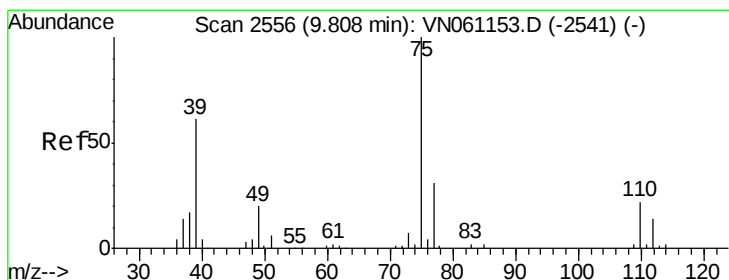
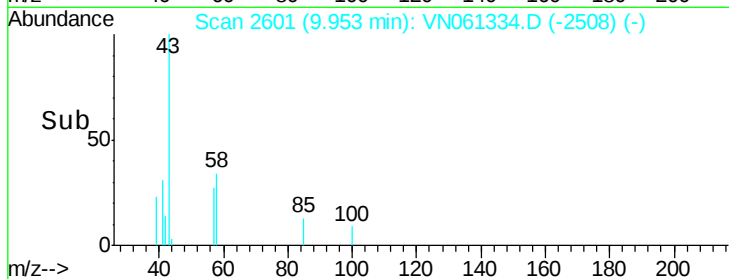
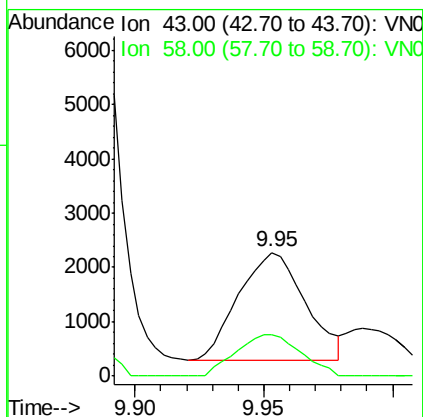
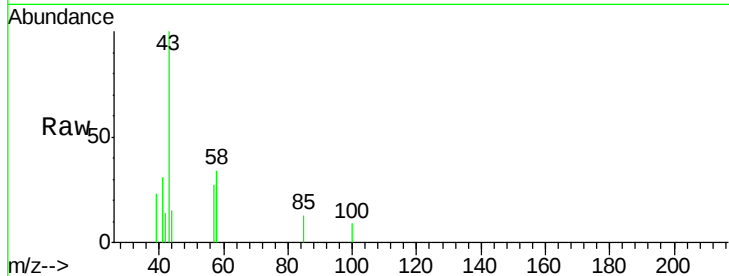




#51
 4-Methyl-2-Pentanone
 Concen: 1.845 ug/l
 RT: 9.95 min Scan# 2601
 Delta R.T. 0.00 min
 Lab File: VN061334.D
 Acq: 7 May 2020 15:20

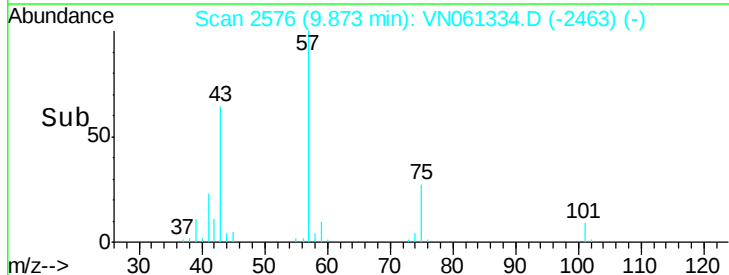
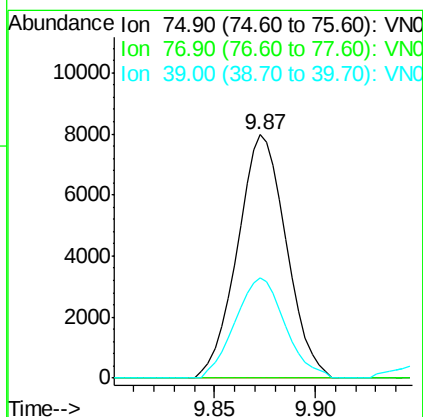
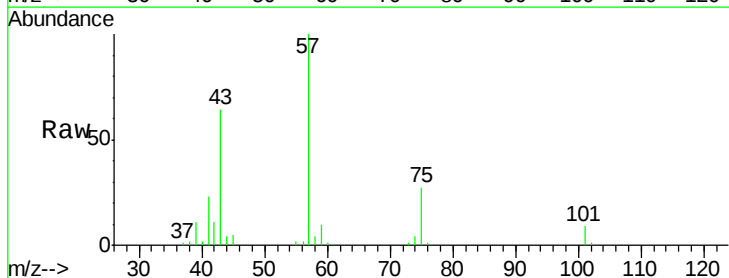
Instrument :
 MSVOA_N
 ClientSampled :

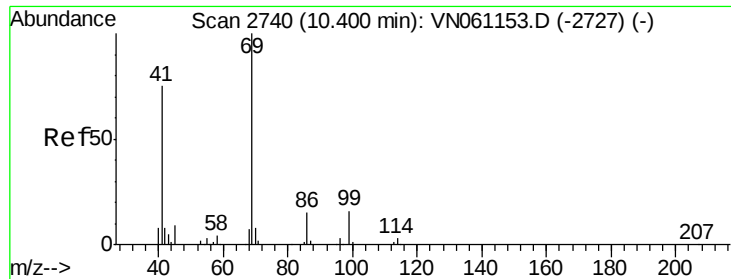
Tot Ion: 43 Resp: 3581
 Ion Ratio Lower Upper
 43 100
 58 37.2 29.1 43.7



#54
 cis-1,3-Dichloropropene
 Concen: 6.310 ug/l
 RT: 9.87 min Scan# 2576
 Delta R.T. 0.06 min
 Lab File: VN061334.D
 Acq: 7 May 2020 15:20

Tgt Ion: 75 Resp: 13478
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.4#
 39 41.1 48.7 73.1#

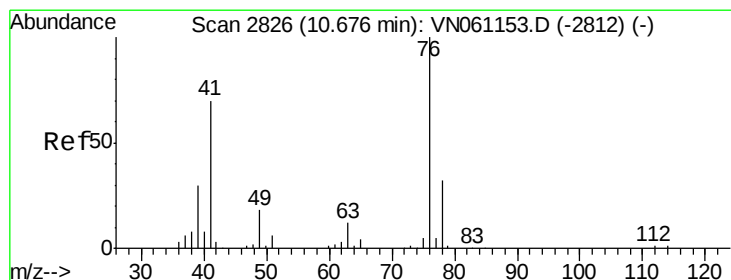
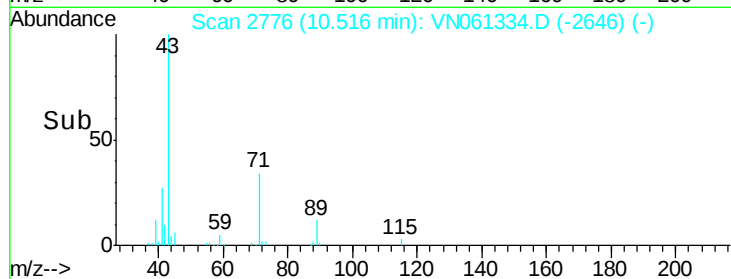
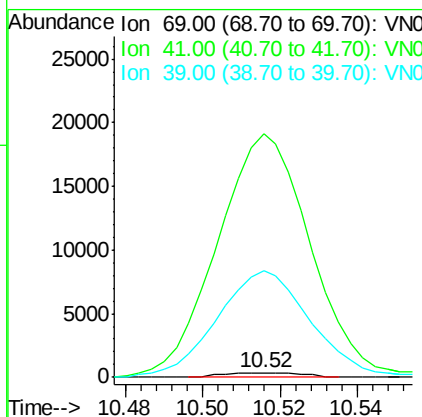
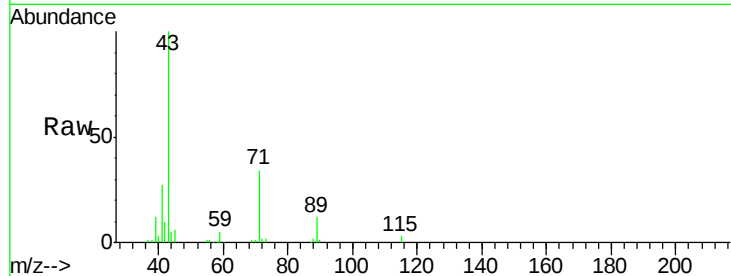




#56
Ethyl methacrylate
Concen: 2.951 ug/l
RT: 10.52 min Scan# 2776
Delta R.T. 0.12 min
Lab File: VN061334.D
Acq: 7 May 2020 15:20

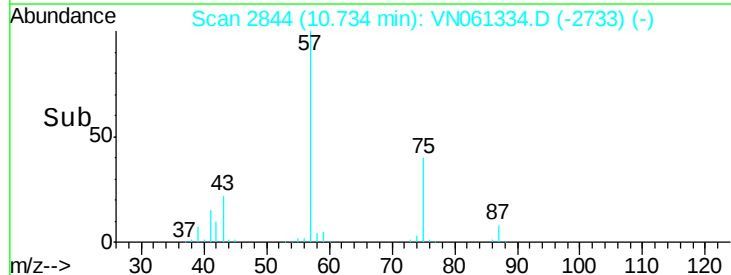
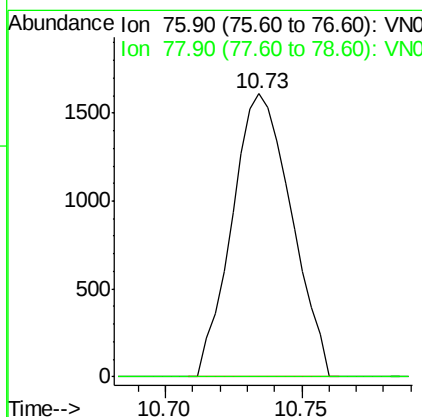
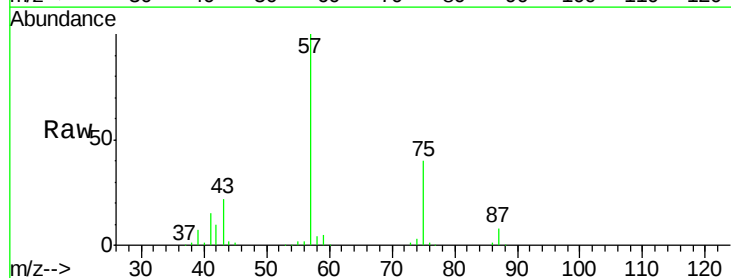
Instrument :
MSVOA_N
ClientSampled :

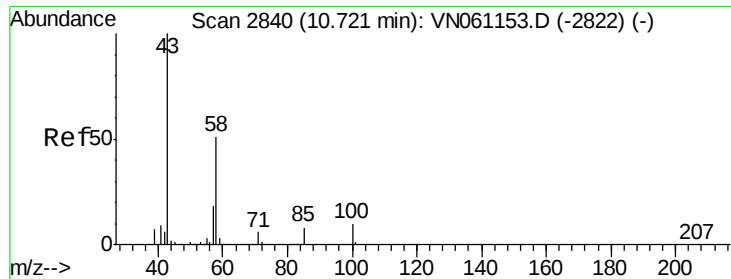
Tot Ion: 69 Resp: 502
Ion Ratio Lower Upper
69 100
41 6399.0 60.3 90.5#
39 2817.3 35.9 53.9#



#57
1,3-Dichloropropane
Concen: 1.137 ug/l
RT: 10.73 min Scan# 2844
Delta R.T. 0.06 min
Lab File: VN061334.D
Acq: 7 May 2020 15:20

Tgt Ion: 76 Resp: 2425
Ion Ratio Lower Upper
76 100
78 0.0 25.5 38.3#

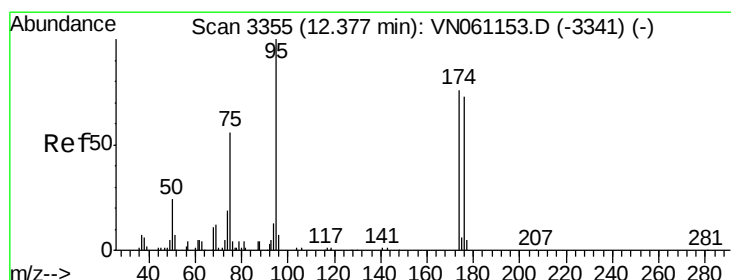
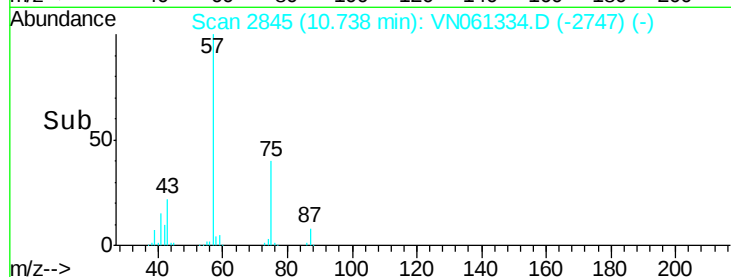
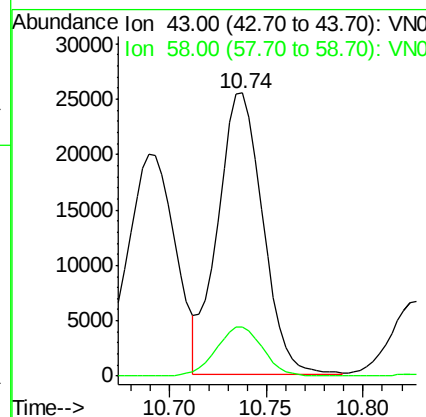
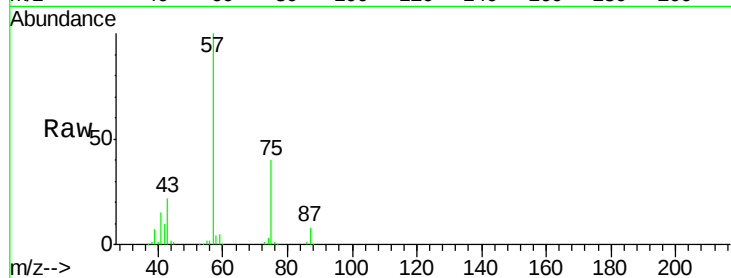




#59
2-Hexanone
Concen: 29.301 ug/l
RT: 10.74 min Scan# 2845
Delta R.T. 0.02 min
Lab File: VN061334.D
Acq: 7 May 2020 15:20

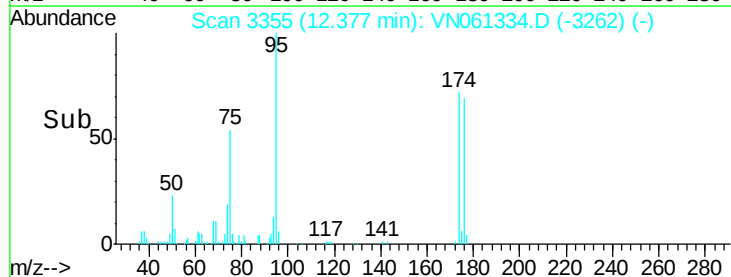
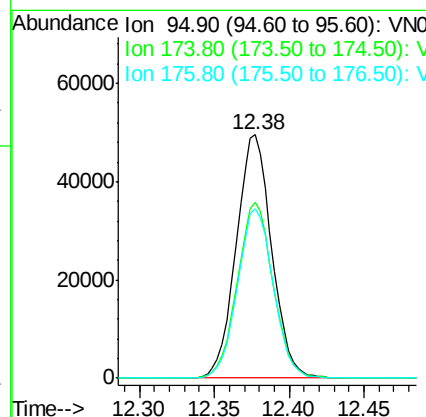
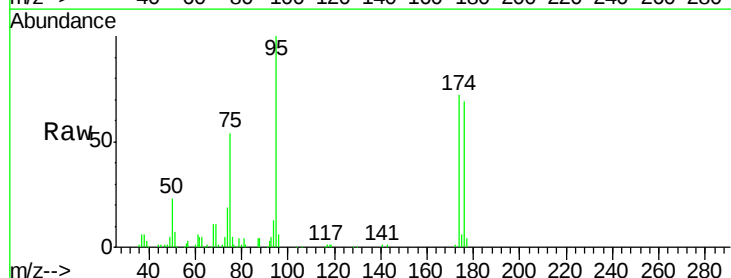
Instrument :
MSVOA_N
ClientSampleId :

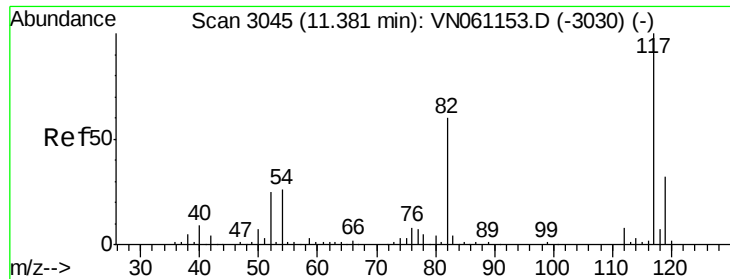
Tot Ion: 43 Resp: 41385
Ion Ratio Lower Upper
43 100
58 17.9 25.4 76.4#



#62
4-Bromofluorobenzene
Concen: 53.181 ug/l
RT: 12.38 min Scan# 3355
Delta R.T. 0.00 min
Lab File: VN061334.D
Acq: 7 May 2020 15:20

Tgt Ion: 95 Resp: 81694
Ion Ratio Lower Upper
95 100
174 72.6 0.0 149.4
176 70.2 0.0 144.8

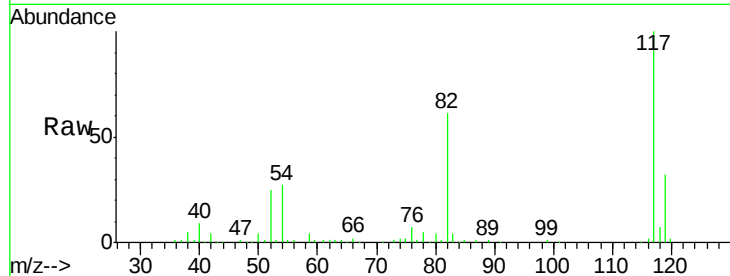




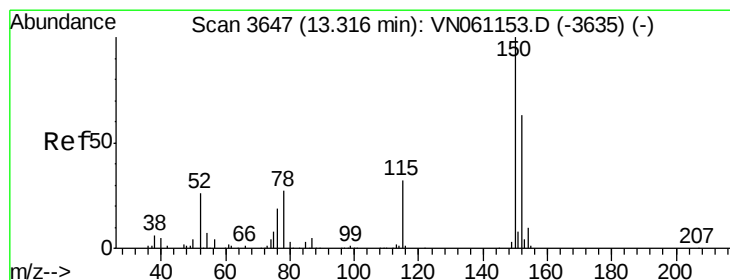
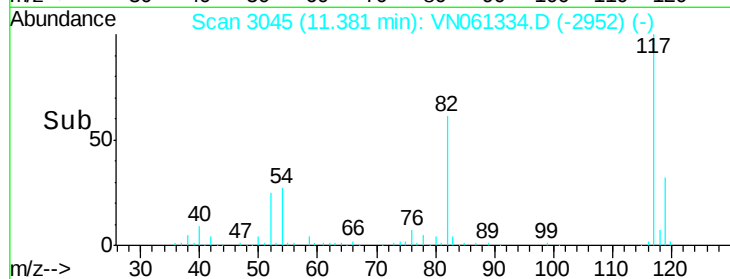
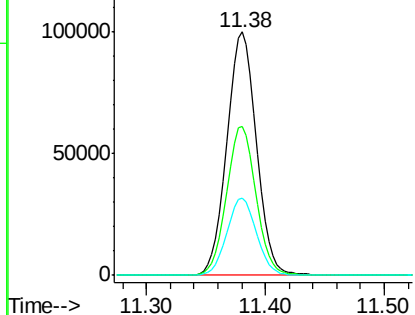
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 3045
Delta R.T. 0.00 min
Lab File: VN061334.D
Acq: 7 May 2020 15:20

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 171636
Ion Ratio Lower Upper
117 100
82 61.3 47.8 71.8
119 31.9 25.8 38.6

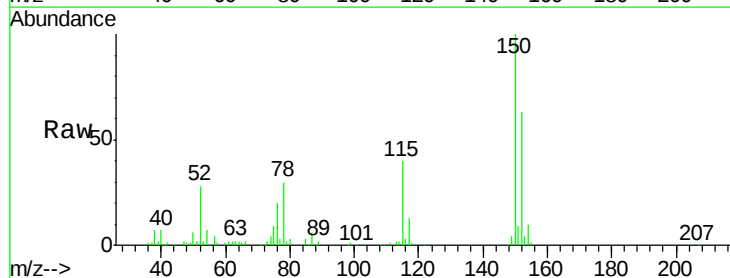


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

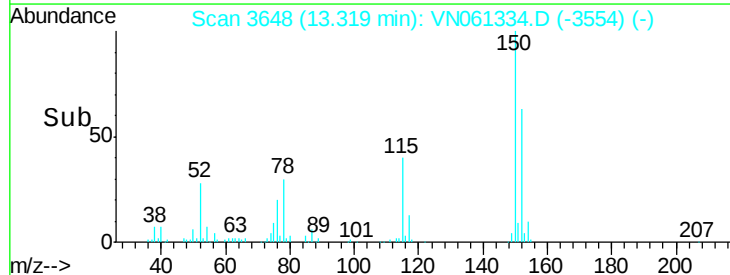
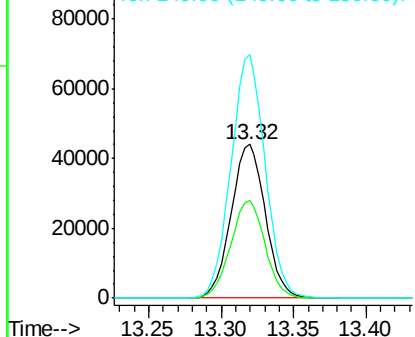


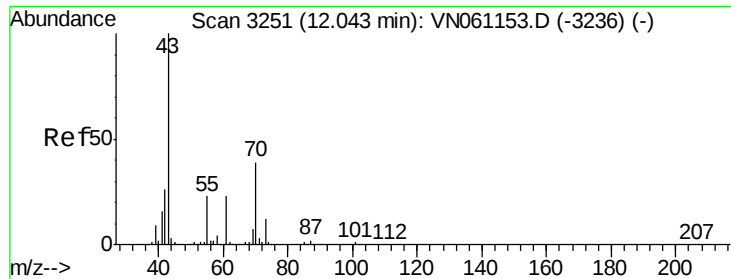
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3648
Delta R.T. 0.00 min
Lab File: VN061334.D
Acq: 7 May 2020 15:20

Tgt Ion:152 Resp: 72129
Ion Ratio Lower Upper
152 100
115 63.4 31.0 93.0
150 157.7 0.0 351.8



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-amvl acetate

Concen: 0.621 ug/l

RT: 12.00 min Scan# 3239

Delta R.T. -0.04 min

Lab File: VN061334.D

Acq: 7 May 2020 15:20

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 1668

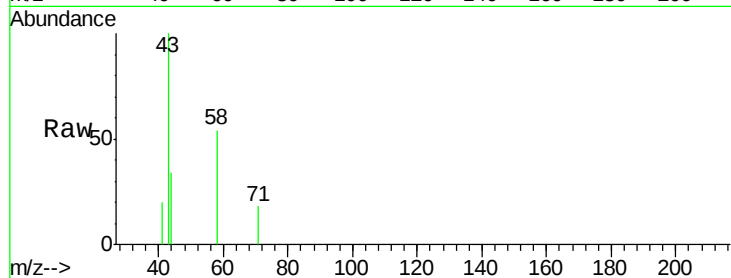
Ion Ratio Lower Upper

43 100

70 0.0 30.6 46.0#

55 0.0 18.5 27.7#

61 0.0 17.9 26.9#

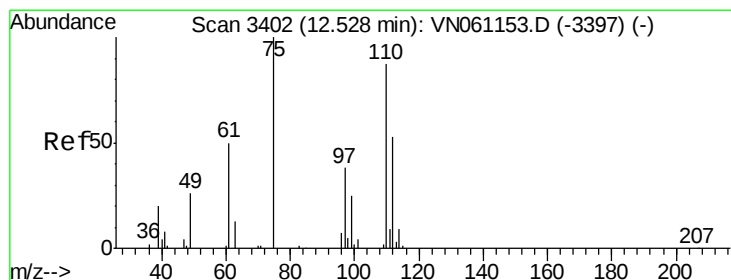
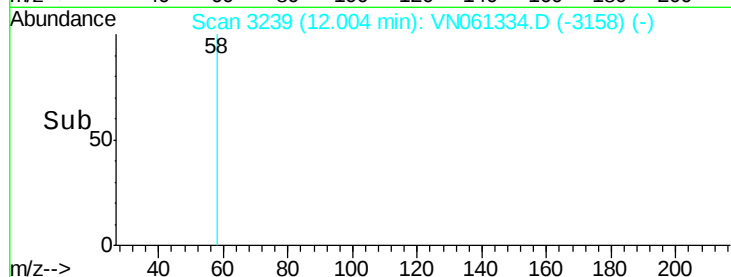
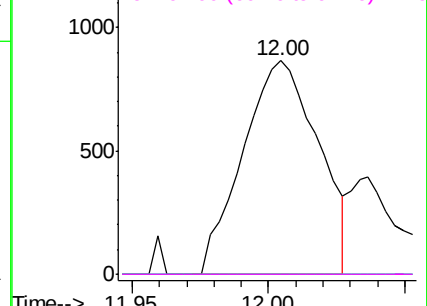


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 29.736 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. -0.15 min

Lab File: VN061334.D

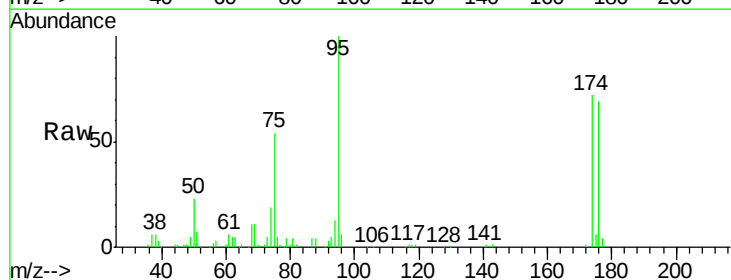
Acq: 7 May 2020 15:20

Tgt Ion: 75 Resp: 45219

Ion Ratio Lower Upper

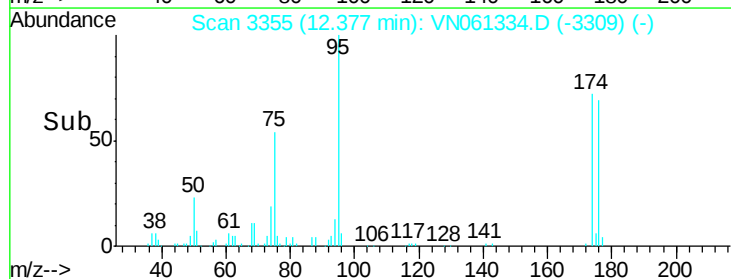
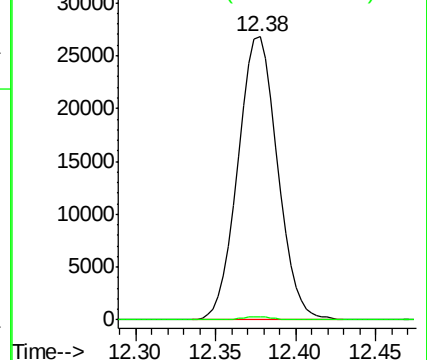
75 100

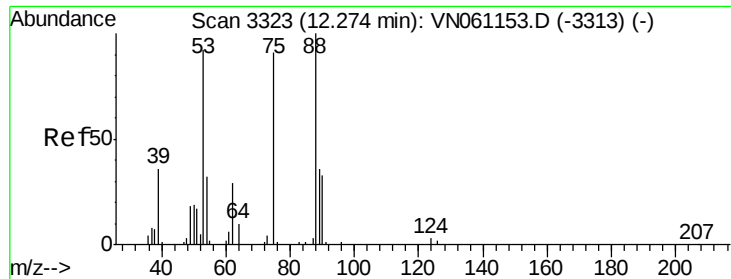
77 0.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 75.514 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. 0.10 min

Lab File: VN061334.D

Acq: 7 May 2020 15:20

Instrument :

MSVOA_N

ClientSampleId :

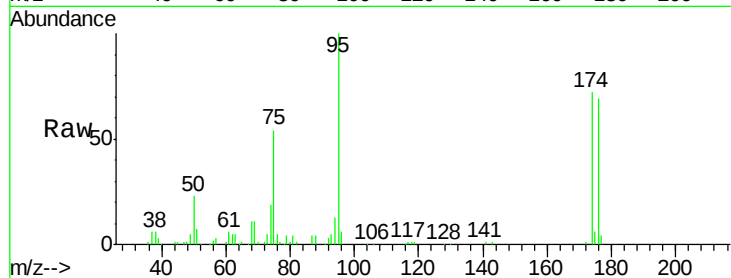
Tot Ion: 75 Resp: 45219

Ion Ratio Lower Upper

75 100

53 0.0 84.1 126.1#

89 0.0 35.2 52.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

