

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050720\
 Data File : VN061328.D
 Acq On : 7 May 2020 13:01
 Operator : JC/MD
 Sample : PB128697ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 08 01:33:56 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	102335	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	187917	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	186379	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	77294	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	87761	54.20	ug/l	0.00
Spiked Amount			Recovery	=	108.40%	
35) Dibromofluoromethane	7.55	113	50714	45.64	ug/l	0.00
Spiked Amount			Recovery	=	91.28%	
50) Toluene-d8	10.06	98	240031	52.99	ug/l	0.00
Spiked Amount			Recovery	=	105.98%	
62) 4-Bromofluorobenzene	12.38	95	88539	51.94	ug/l	0.00
Spiked Amount			Recovery	=	103.88%	

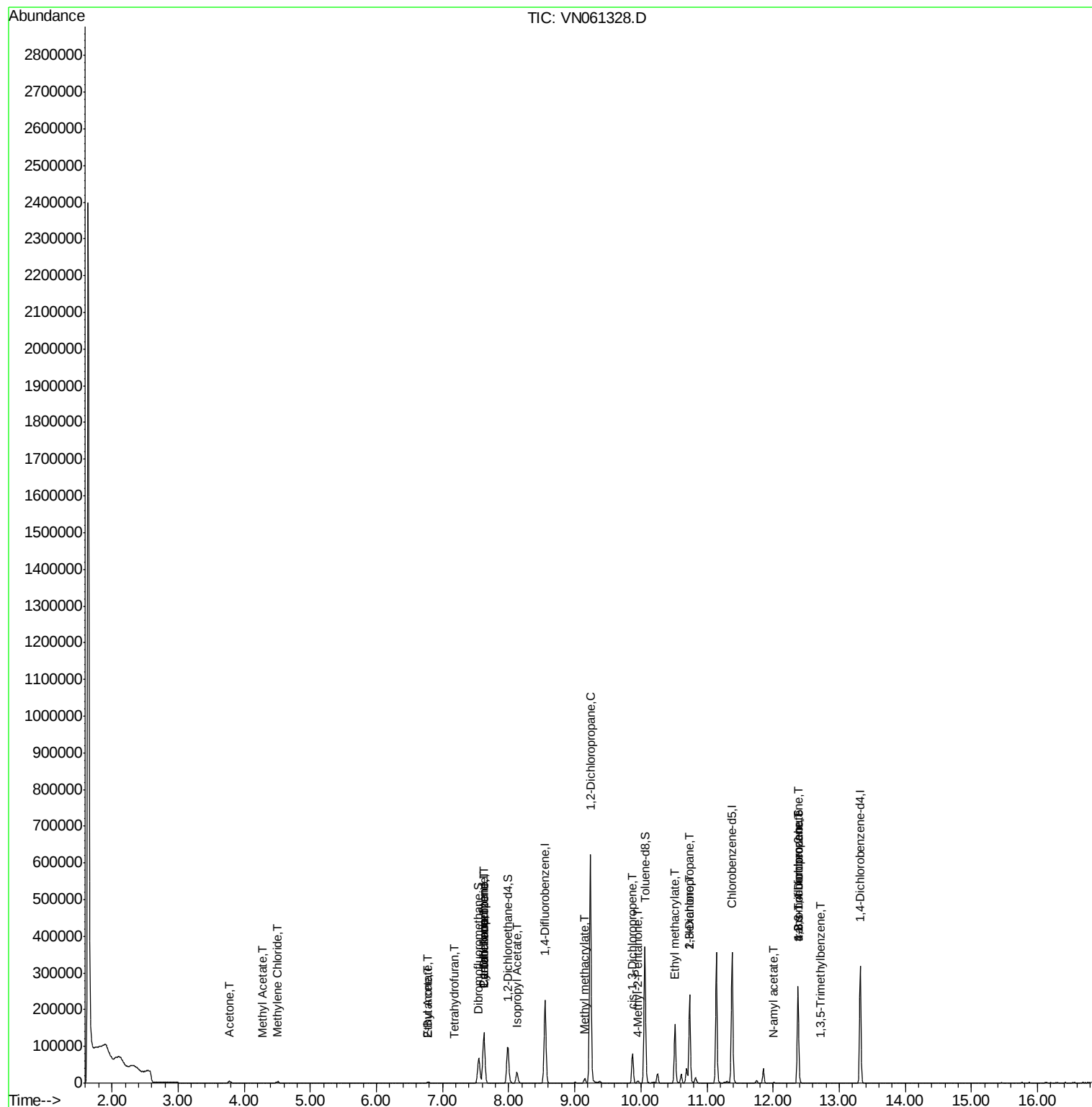
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	8902	8.887	ug/l	90
18) Methyl Acetate	4.28	43	1198	1.257	ug/l #	55
20) Methylene Chloride	4.50	84	2975	2.356	ug/l	98
25) 2-Butanone	6.79	43	1900	1.983	ug/l	97
29) Tetrahydrofuran	7.17	42	163	0.253	ug/l #	37
31) Cyclohexane	7.63	56	2899	1.231	ug/l #	35
36) 1,1-Dichloropropene	7.63	75	9145	4.861	ug/l #	50
37) Ethyl Acetate	6.79	43	1900	0.862	ug/l #	71
38) Carbon Tetrachloride	7.63	117	11236	8.534	ug/l #	17
43) Isopropyl Acetate	8.12	43	34906	9.537	ug/l #	92
45) 1,2-Dichloropropane	9.23	63	577	0.385	ug/l #	44
48) Methyl methacrylate	9.14	41	1933	1.170	ug/l #	16
51) 4-Methyl-2-Pentanone	9.95	43	3489	1.620	ug/l	98
54) cis-1,3-Dichloropropene	9.87	75	12702	5.359	ug/l #	66
56) Ethyl methacrylate	10.52	69	495	2.926	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2302	0.973	ug/l #	43
59) 2-Hexanone	10.74	43	37165	23.713	ug/l #	53
74) N-amyl acetate	12.00	43	1466	0.509	ug/l #	46
76) 1,2,3-Trichloropropane	12.37	75	49194	30.188	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	957	0.203	ug/l	75
81) trans-1,4-Dichloro-2-buten	12.37	75	49194	76.663	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: VN061328.D

Acq: 7 May 2020 13:01

Instrument :

MSVOA_N

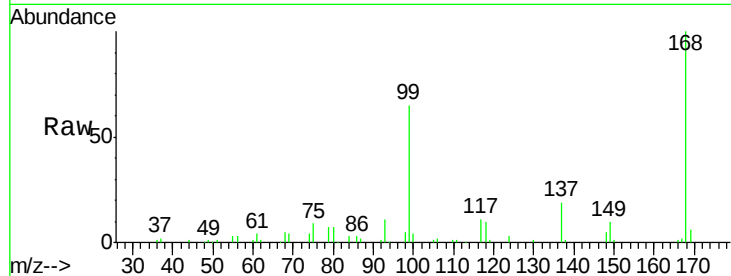
ClientSampleId :

Tot Ion:168 Resp: 102335

Ion Ratio Lower Upper

168 100

99 65.4 51.2 76.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

40000

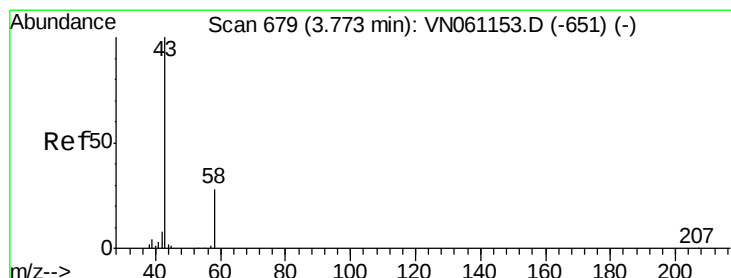
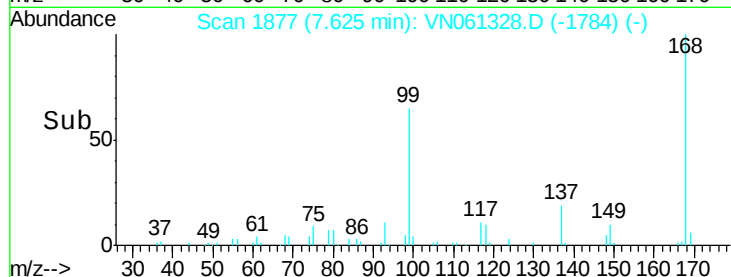
30000

20000

10000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 8.887 ug/l

RT: 3.78 min Scan# 681

Delta R.T. 0.01 min

Lab File: VN061328.D

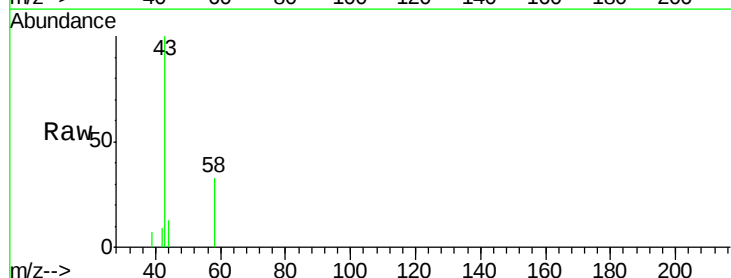
Acq: 7 May 2020 13:01

Tgt Ion: 43 Resp: 8902

Ion Ratio Lower Upper

43 100

58 32.8 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

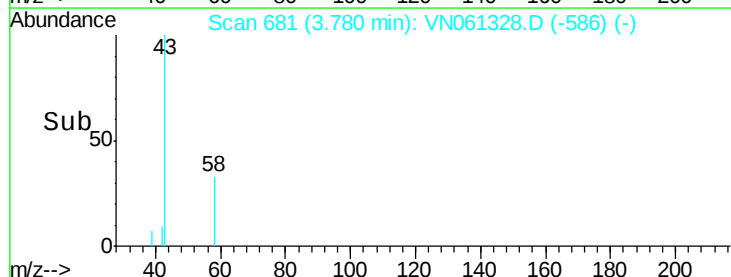
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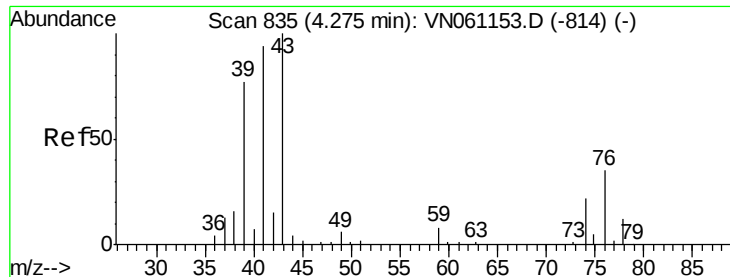
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1000

0

Time--> 3.70 3.75 3.80 3.85

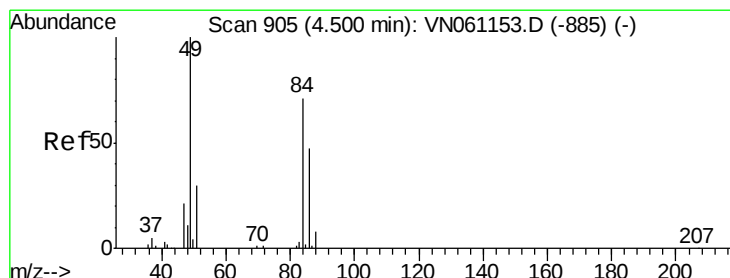
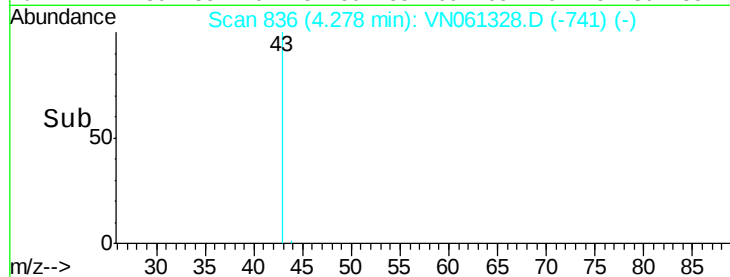
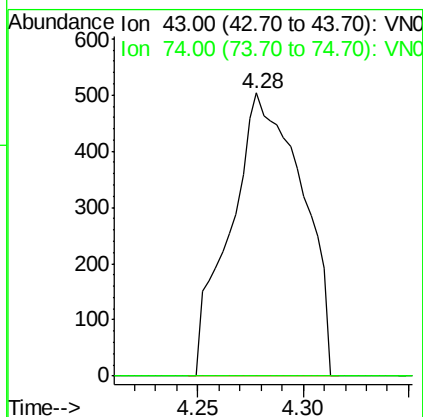
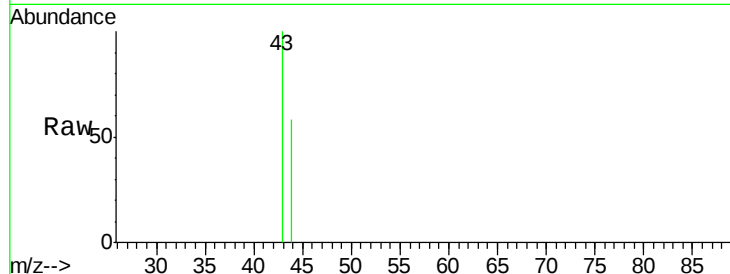




#18
Methyl Acetate
Concen: 1.257 ug/l
RT: 4.28 min Scan# 836
Delta R.T. 0.00 min
Lab File: VN061328.D
Acq: 7 May 2020 13:01

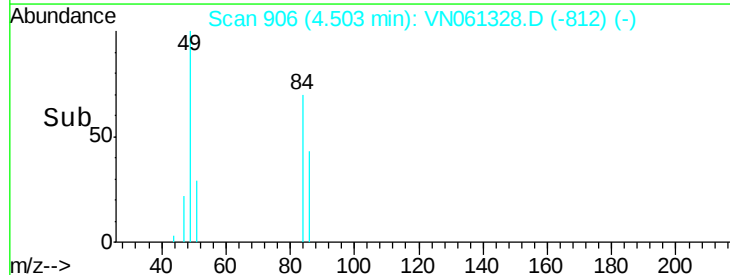
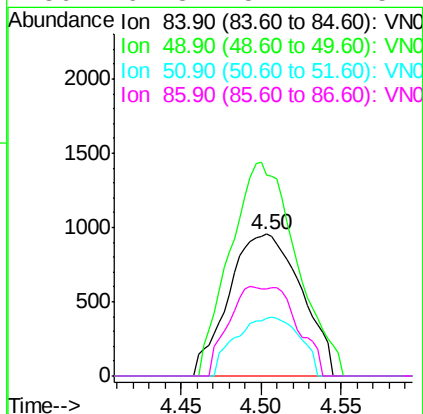
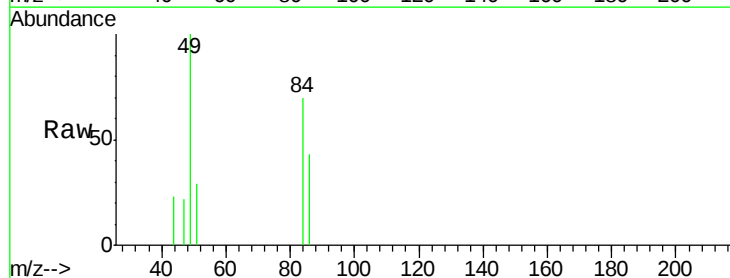
Instrument :
MSVOA_N
ClientSampleId :

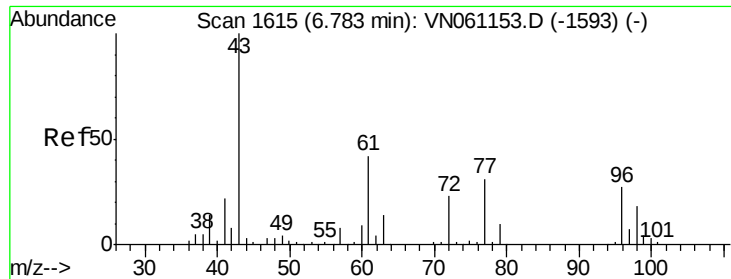
Tot Ion: 43 Resp: 1198
Ion Ratio Lower Upper
43 100
74 0.0 17.0 25.4#



#20
Methylene Chloride
Concen: 2.356 ug/l
RT: 4.50 min Scan# 906
Delta R.T. 0.00 min
Lab File: VN061328.D
Acq: 7 May 2020 13:01

Tgt Ion: 84 Resp: 2975
Ion Ratio Lower Upper
84 100
49 142.0 112.0 168.0
51 41.0 33.6 50.4
86 61.3 52.1 78.1

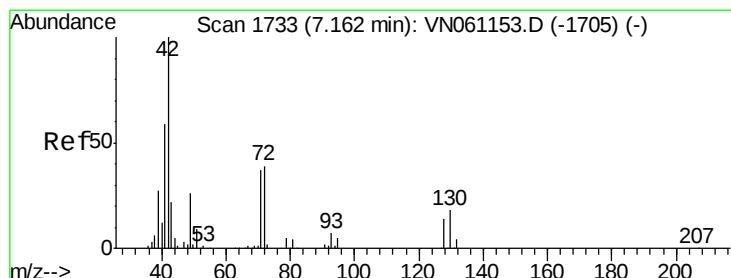
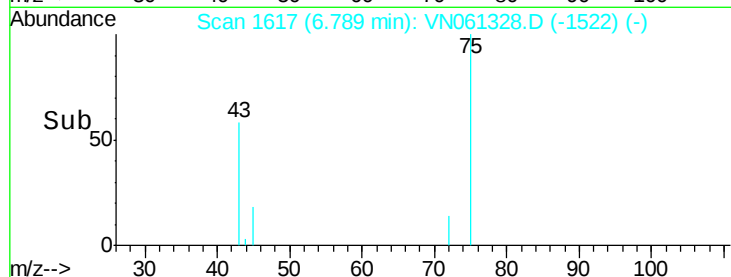
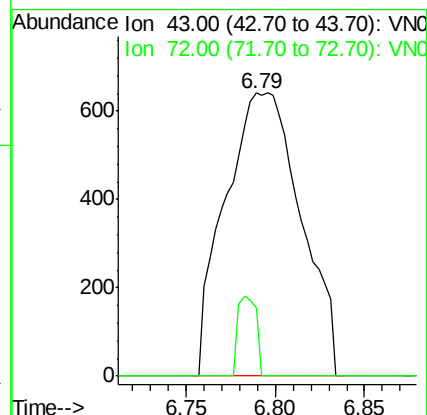
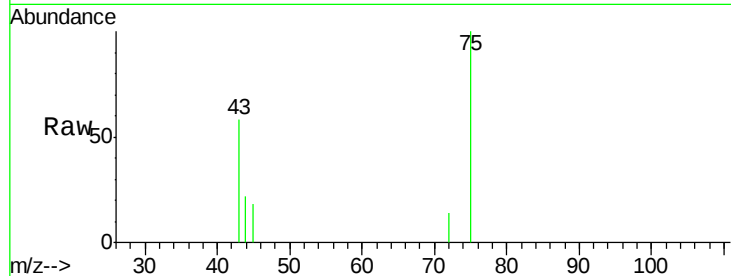




#25
2-Butanone
Concen: 1.983 ug/l
RT: 6.79 min Scan# 1617
Delta R.T. 0.01 min
Lab File: VN061328.D
Acq: 7 May 2020 13:01

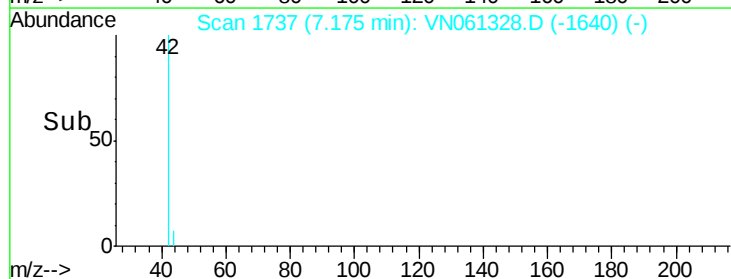
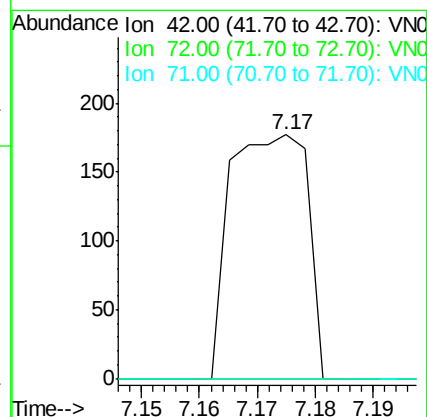
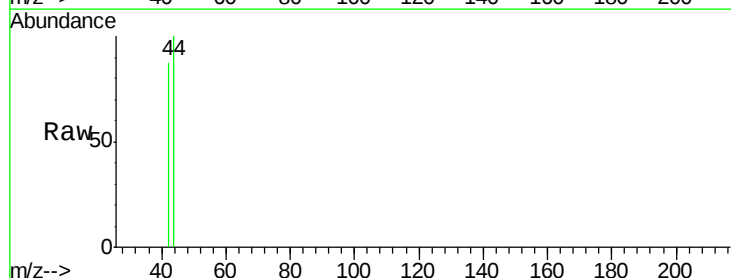
Instrument :
MSVOA_N
ClientSampleId :

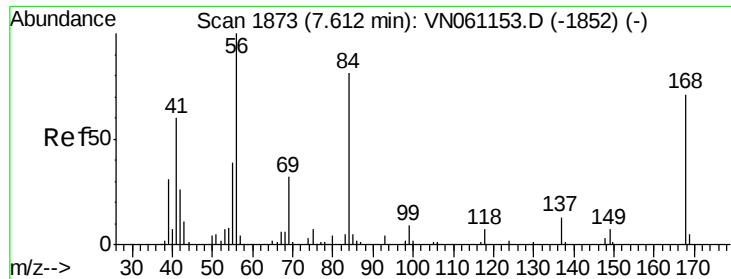
Tot Ion: 43 Resp: 1900
Ion Ratio Lower Upper
43 100
72 24.0 18.2 27.4



#29
Tetrahydrofuran
Concen: 0.253 ug/l
RT: 7.17 min Scan# 1737
Delta R.T. 0.01 min
Lab File: VN061328.D
Acq: 7 May 2020 13:01

Tgt Ion: 42 Resp: 163
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 0.0 29.5 44.3#

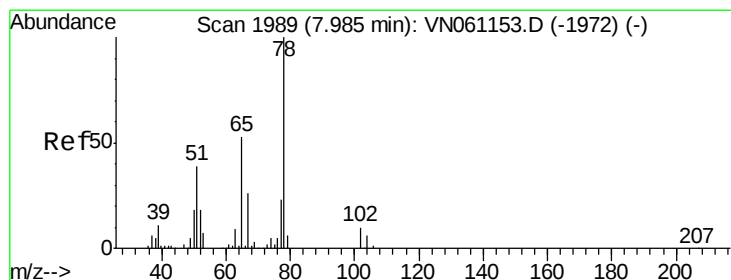
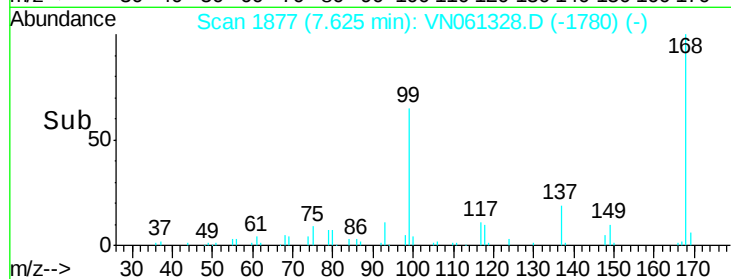
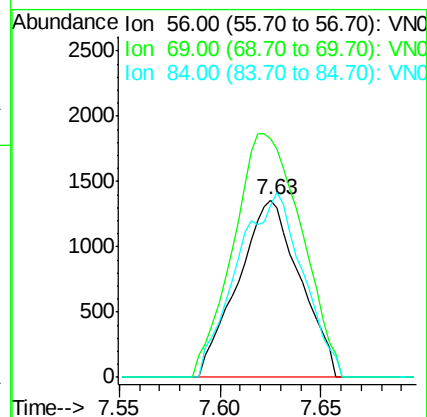
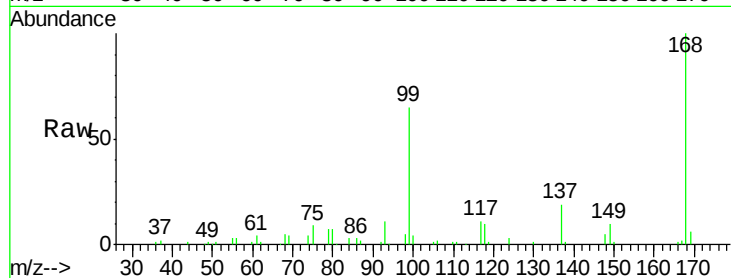




#31
Cyclohexane
Concen: 1.231 ug/l
RT: 7.63 min Scan# 1877
Delta R.T. 0.01 min
Lab File: VN061328.D
Acq: 7 May 2020 13:01

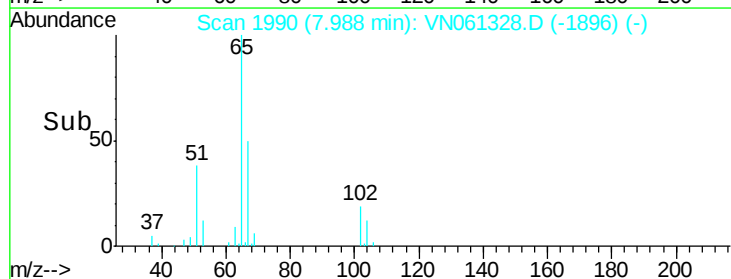
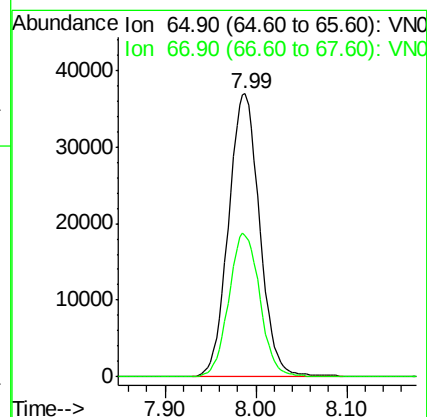
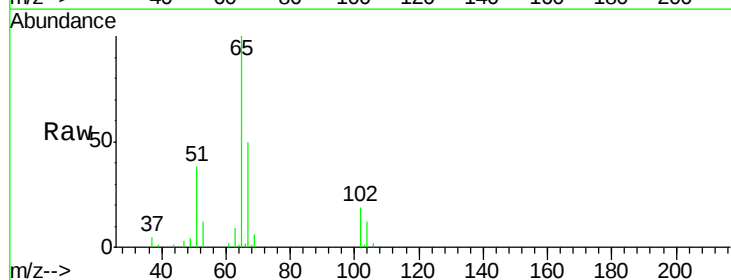
Instrument :
MSVOA_N
ClientSampled :

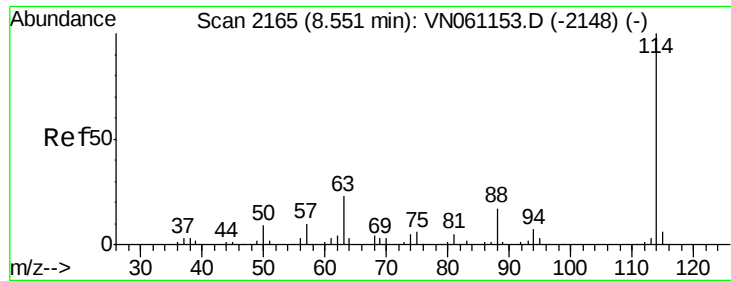
Tot Ion: 56 Resp: 2899
Ion Ratio Lower Upper
56 100
69 134.5 25.7 38.5#
84 97.3 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 54.198 ug/l
RT: 7.99 min Scan# 1990
Delta R.T. 0.00 min
Lab File: VN061328.D
Acq: 7 May 2020 13:01

Tgt Ion: 65 Resp: 87761
Ion Ratio Lower Upper
65 100
67 50.5 0.0 101.6

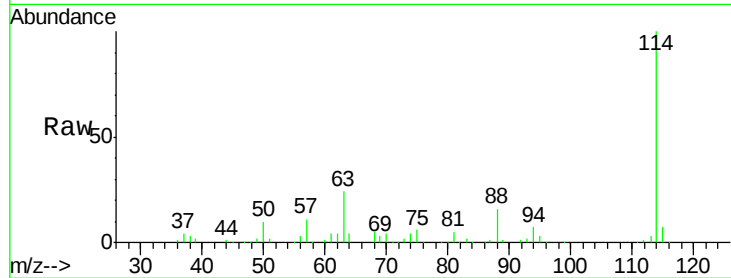




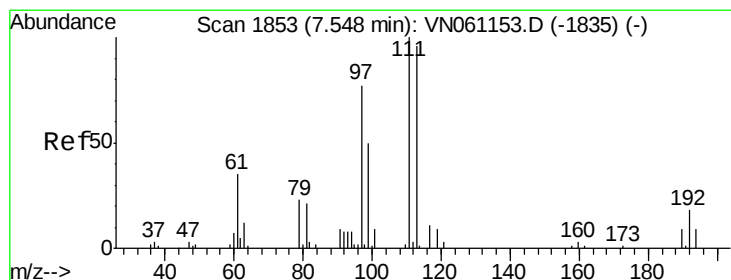
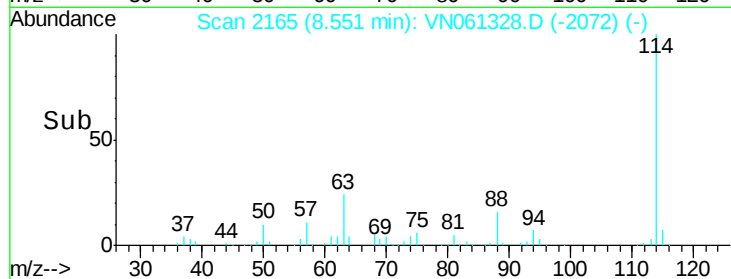
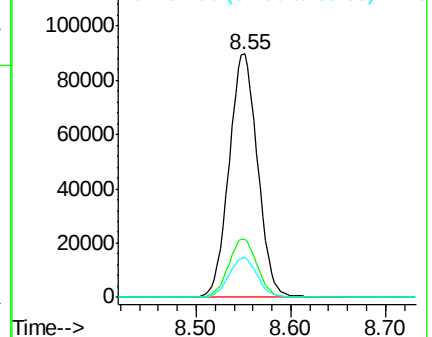
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2165
Delta R.T. 0.00 min
Lab File: VN061328.D
Acq: 7 May 2020 13:01

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 187917
Ion Ratio Lower Upper
114 100
63 23.9 0.0 46.6
88 16.2 0.0 33.4

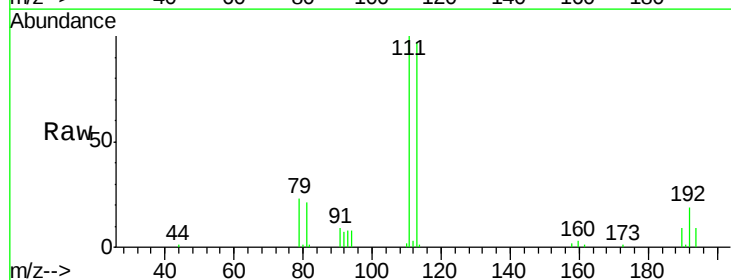


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

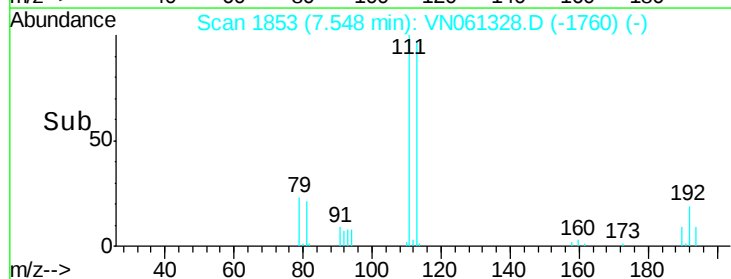
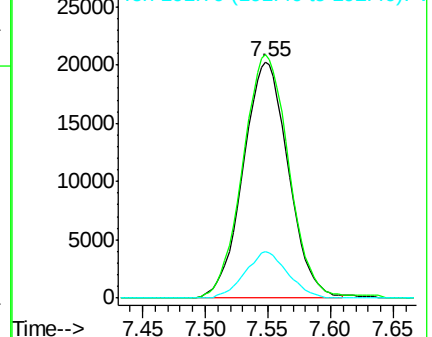


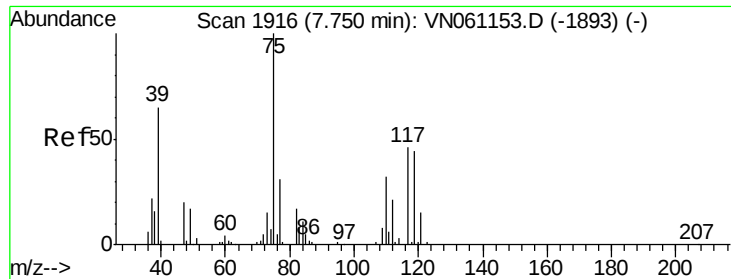
#35
Dibromofluoromethane
Concen: 45.639 ug/l
RT: 7.55 min Scan# 1853
Delta R.T. 0.00 min
Lab File: VN061328.D
Acq: 7 May 2020 13:01

Tgt Ion:113 Resp: 50714
Ion Ratio Lower Upper
113 100
111 105.1 82.9 124.3
192 18.5 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

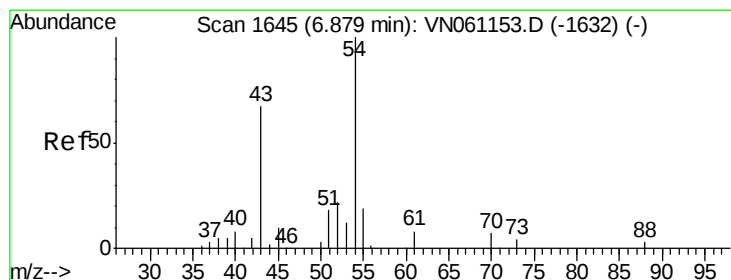
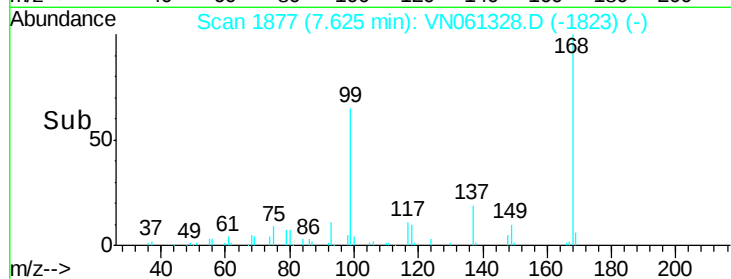
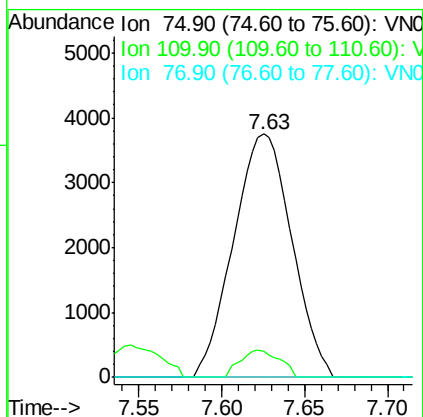
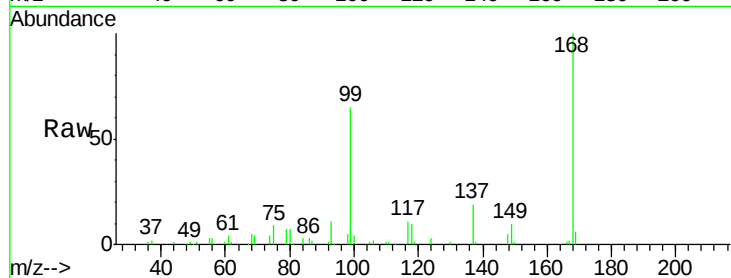




#36
 1,1-Dichloropropene
 Concen: 4.861 ug/l
 RT: 7.63 min Scan# 1877
 Delta R.T. -0.13 min
 Lab File: VN061328.D
 Acq: 7 May 2020 13:01

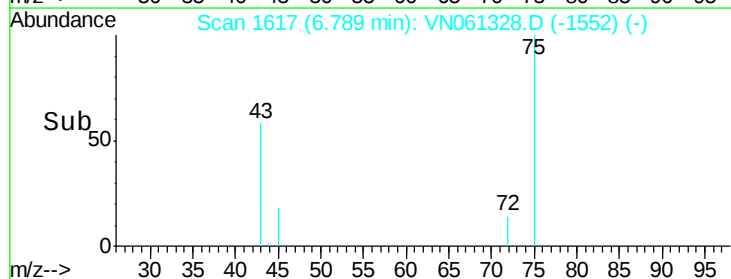
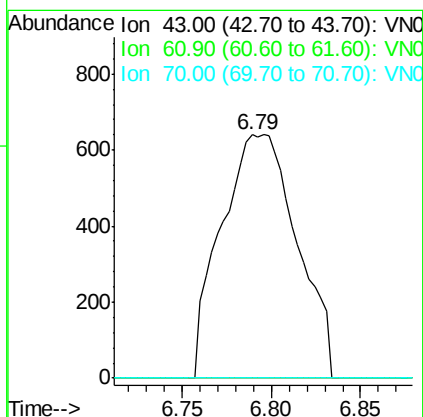
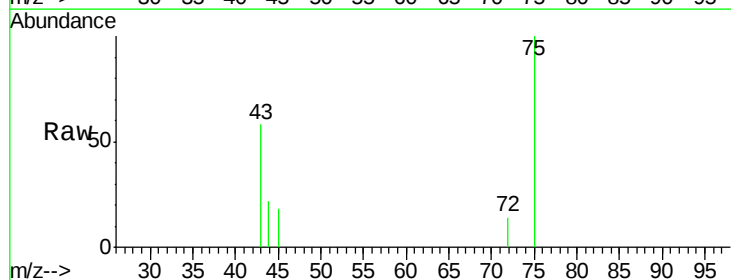
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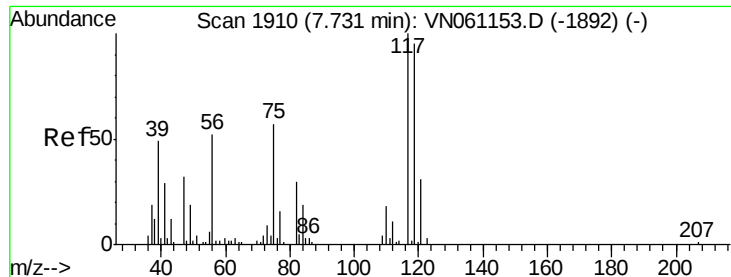
Tot Ion: 75 Resp: 9145
 Ion Ratio Lower Upper
 75 100
 110 7.6 16.0 48.0#
 77 0.0 24.6 37.0#



#37
 Ethyl Acetate
 Concen: 0.862 ug/l
 RT: 6.79 min Scan# 1617
 Delta R.T. -0.09 min
 Lab File: VN061328.D
 Acq: 7 May 2020 13:01

Tgt Ion: 43 Resp: 1900
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.2 15.2#
 70 0.0 7.2 10.8#

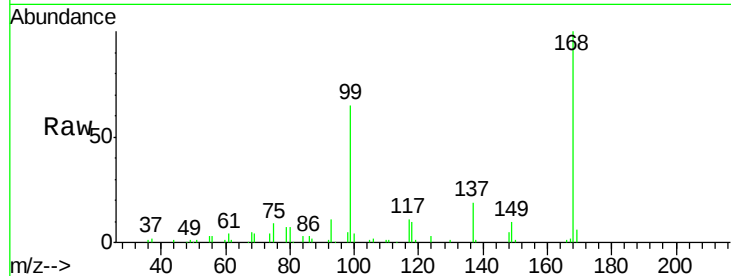




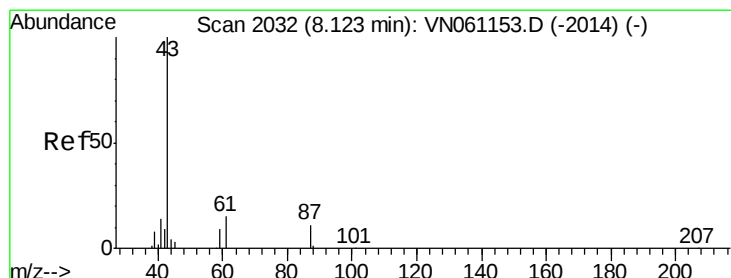
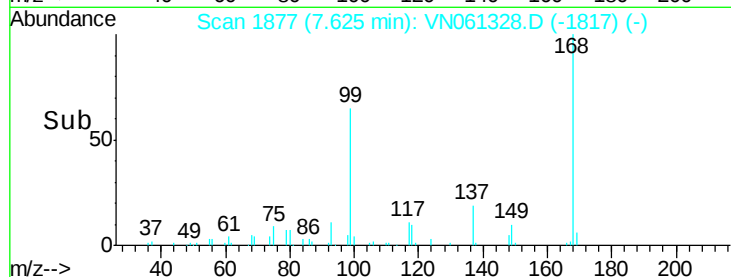
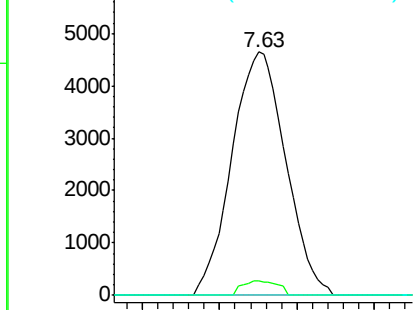
#38
Carbon Tetrachloride
Concen: 8.534 ug/l
RT: 7.63 min Scan# 1877
Delta R.T. -0.11 min
Lab File: VN061328.D
Acq: 7 May 2020 13:01

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 11236
Ion Ratio Lower Upper
117 100
119 6.0 75.8 113.6#
121 0.0 24.7 37.1#

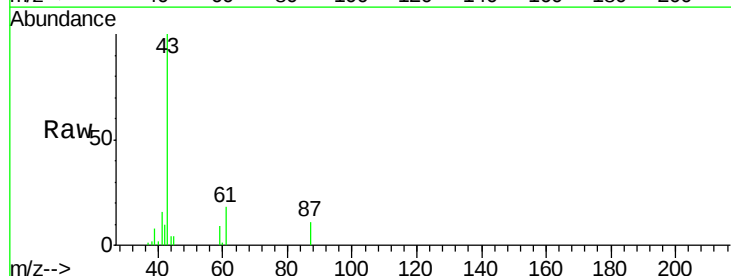


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

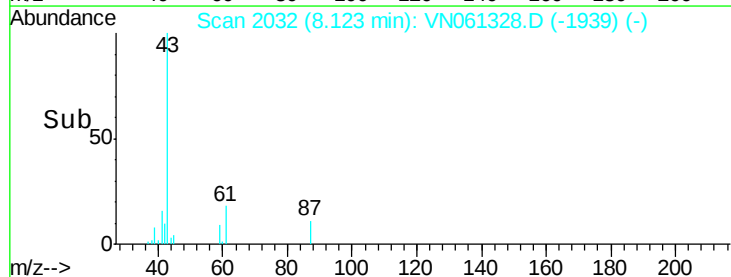
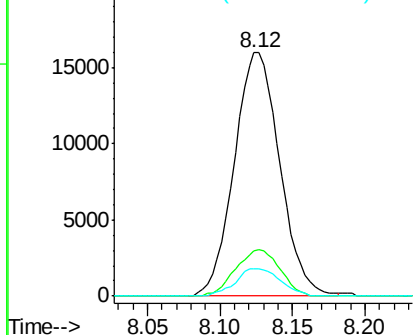


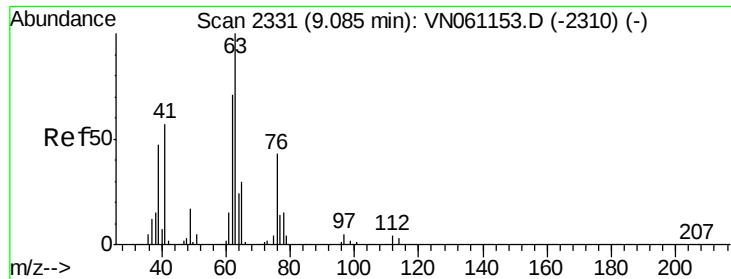
#43
Isopropyl Acetate
Concen: 9.537 ug/l
RT: 8.12 min Scan# 2032
Delta R.T. 0.00 min
Lab File: VN061328.D
Acq: 7 May 2020 13:01

Tgt Ion: 43 Resp: 34906
Ion Ratio Lower Upper
43 100
61 18.5 19.5 29.3#
87 11.1 8.9 13.3



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.385 ug/l

RT: 9.23 min Scan# 2376

Delta R.T. 0.14 min

Lab File: VN061328.D

Acq: 7 May 2020 13:01

Instrument :

MSVOA_N

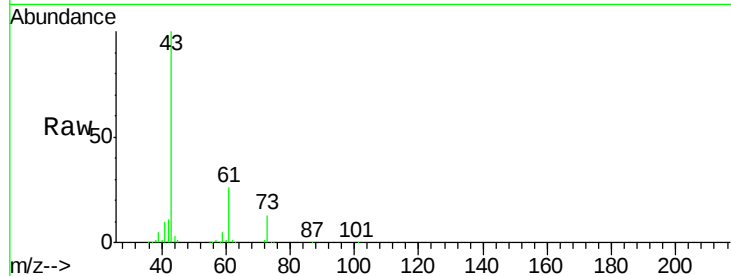
ClientSampleId :

Tot Ion: 63 Resp: 577

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

9.23

400

300

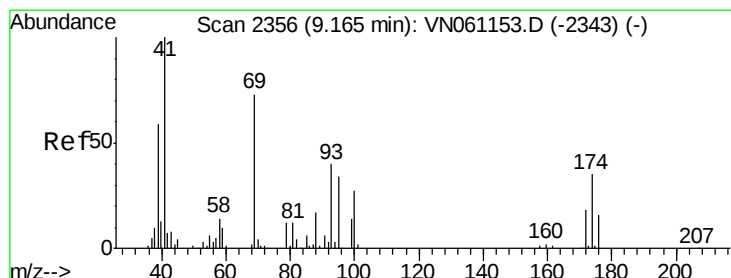
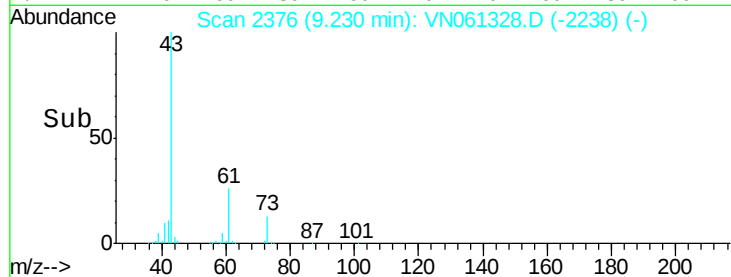
200

100

0

9.20 9.22 9.24 9.26

Time-->



#48

Methyl methacrylate

Concen: 1.170 ug/l

RT: 9.14 min Scan# 2349

Delta R.T. -0.02 min

Lab File: VN061328.D

Acq: 7 May 2020 13:01

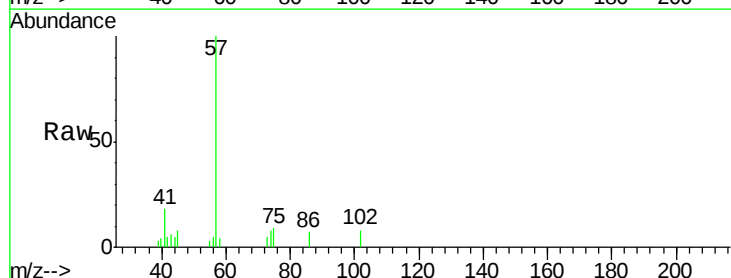
Tgt Ion: 41 Resp: 1933

Ion Ratio Lower Upper

41 100

69 0.0 60.3 90.5#

39 0.0 47.4 71.0#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

20000

15000

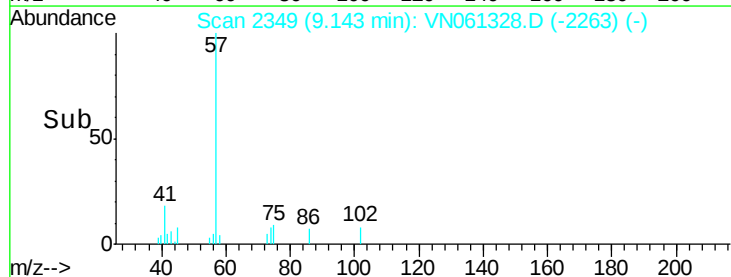
10000

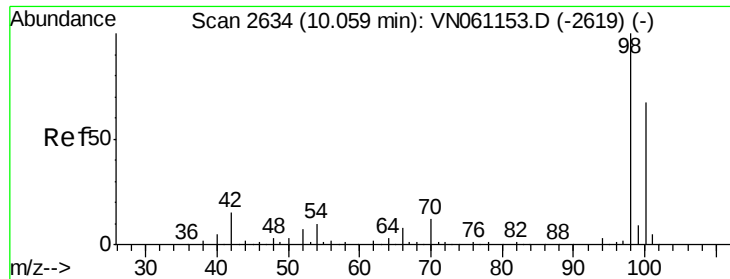
5000

0

9.10 9.15 9.20

Time-->

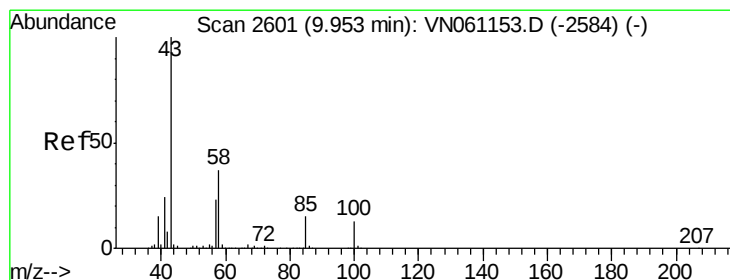
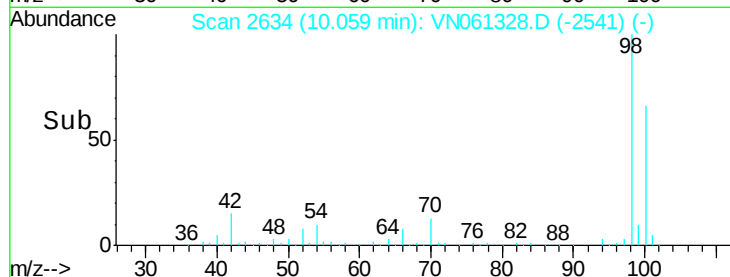
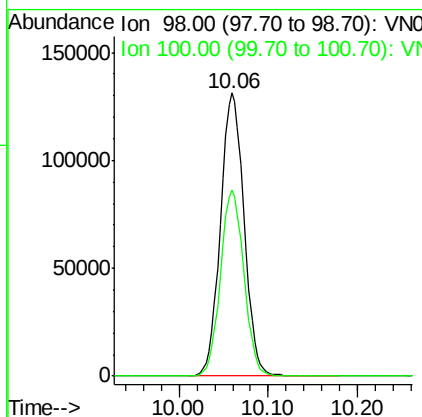
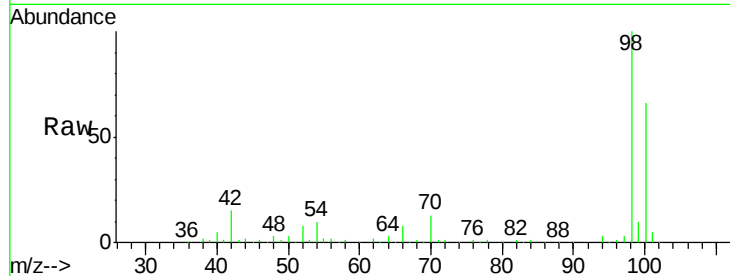




#50
Toluene-d8
Concen: 52.989 ug/l
RT: 10.06 min Scan# 2634
Delta R.T. 0.00 min
Lab File: VN061328.D
Acq: 7 May 2020 13:01

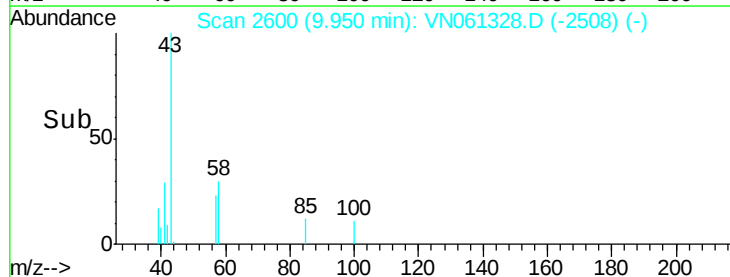
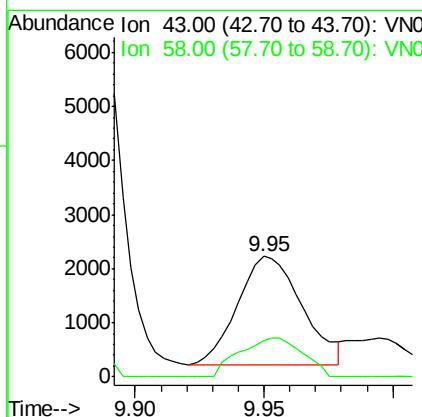
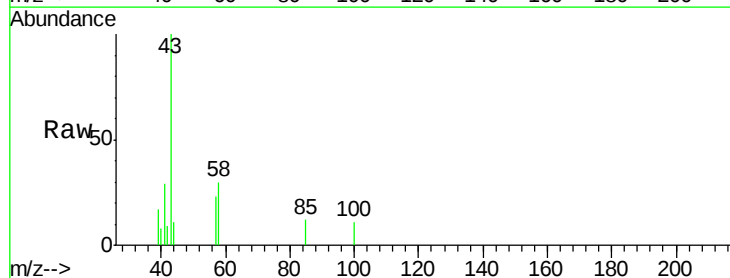
Instrument :
MSVOA_N
ClientSampled :

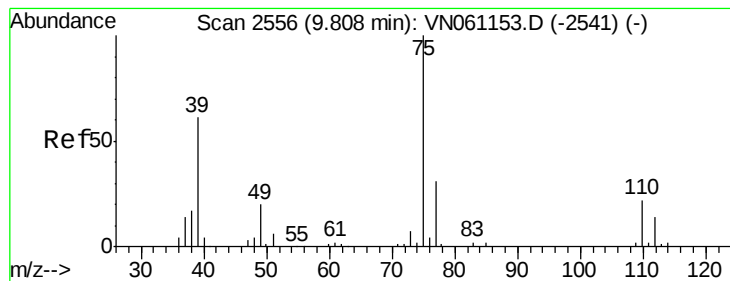
Tot Ion: 98 Resp: 240031
Ion Ratio Lower Upper
98 100
100 65.4 53.4 80.0



#51
4-Methyl-2-Pentanone
Concen: 1.620 ug/l
RT: 9.95 min Scan# 2600
Delta R.T. -0.00 min
Lab File: VN061328.D
Acq: 7 May 2020 13:01

Tgt Ion: 43 Resp: 3489
Ion Ratio Lower Upper
43 100
58 35.3 29.1 43.7



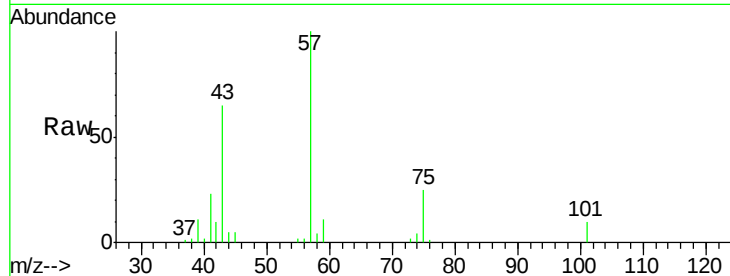


#54

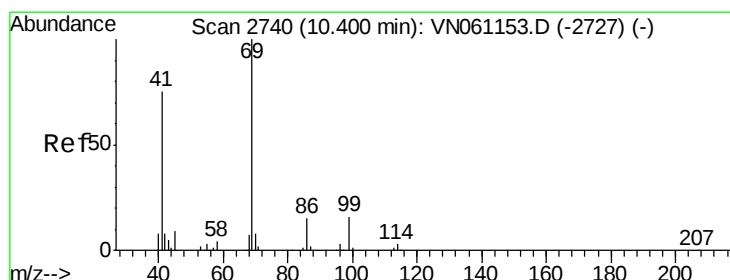
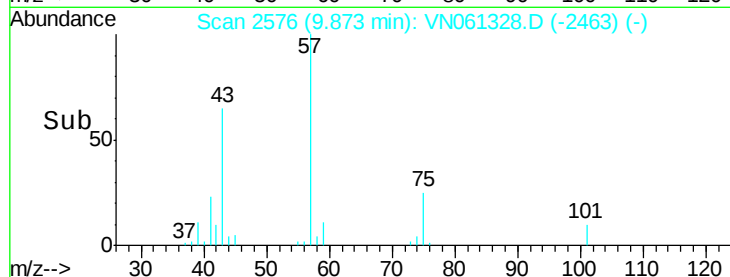
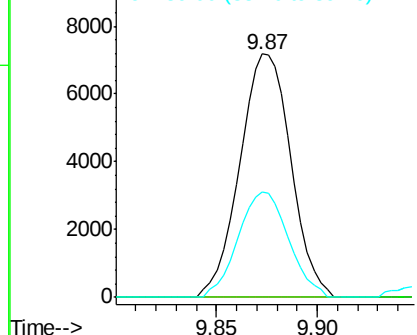
cis-1,3-Dichloropropene
Concen: 5.359 ug/l
RT: 9.87 min Scan# 2576
Delta R.T. 0.06 min
Lab File: VN061328.D
Acq: 7 May 2020 13:01

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 75 Resp: 12702
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.4#
39 43.5 48.7 73.1#



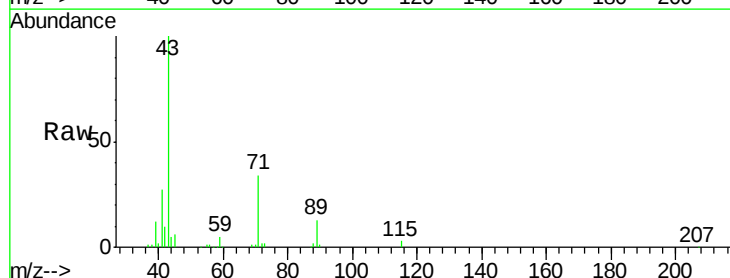
Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0



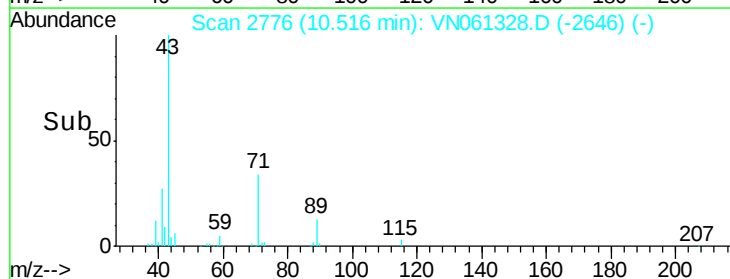
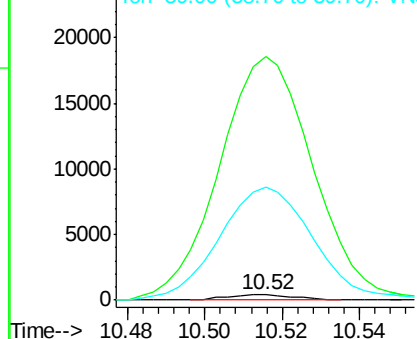
#56

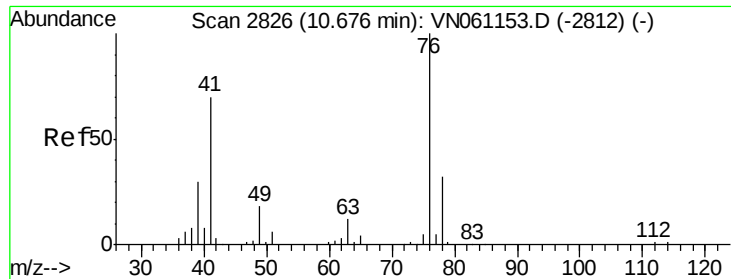
Ethyl methacrylate
Concen: 2.926 ug/l
RT: 10.52 min Scan# 2776
Delta R.T. 0.12 min
Lab File: VN061328.D
Acq: 7 May 2020 13:01

Tgt Ion: 69 Resp: 495
Ion Ratio Lower Upper
69 100
41 6380.2 60.3 90.5#
39 2980.8 35.9 53.9#



Abundance Ion 69.00 (68.70 to 69.70): VN0
Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

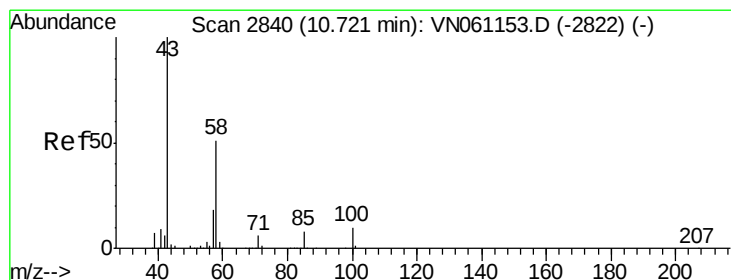
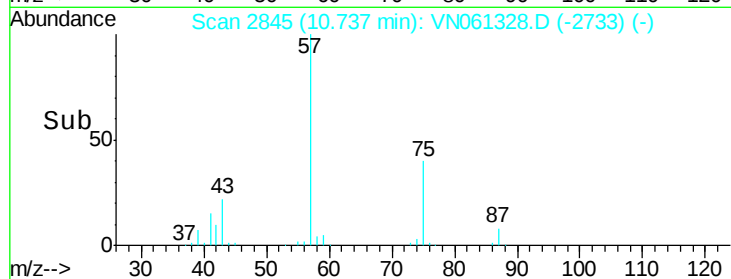
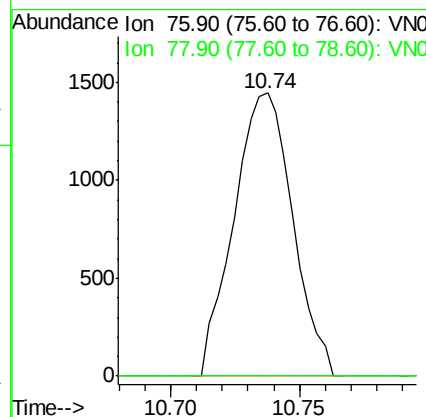
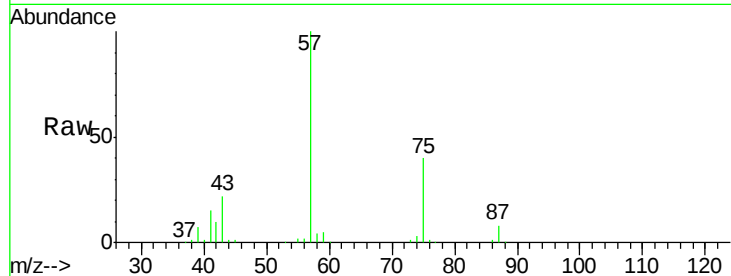




#57
 1,3-Dichloropropane
 Concen: 0.973 ug/l
 RT: 10.74 min Scan# 2845
 Delta R.T. 0.06 min
 Lab File: VN061328.D
 Acq: 7 May 2020 13:01

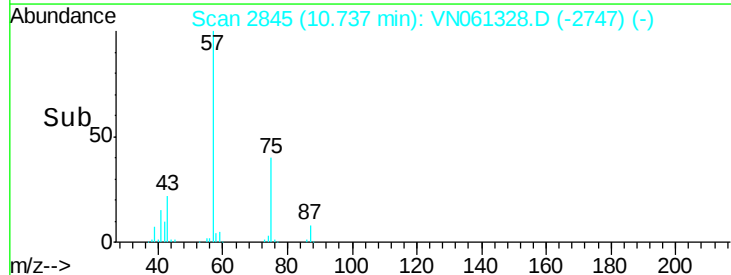
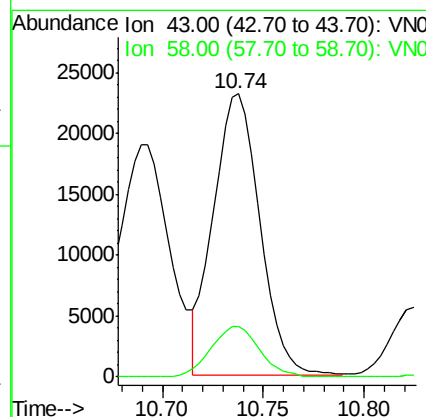
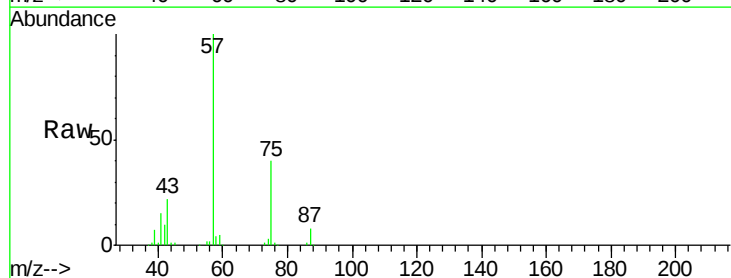
Instrument :
 MSVOA_N
 ClientSampleId :

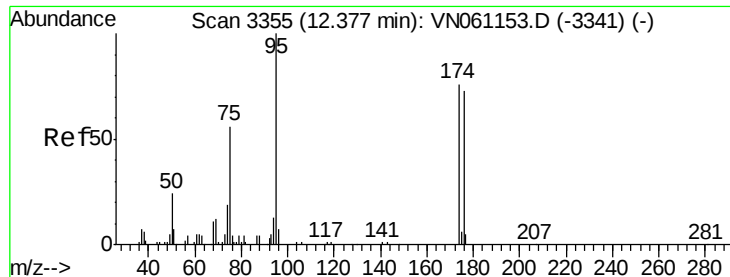
Tot Ion: 76 Resp: 2302
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.5 38.3#



#59
 2-Hexanone
 Concen: 23.713 ug/l
 RT: 10.74 min Scan# 2845
 Delta R.T. 0.02 min
 Lab File: VN061328.D
 Acq: 7 May 2020 13:01

Tgt Ion: 43 Resp: 37165
 Ion Ratio Lower Upper
 43 100
 58 18.5 25.4 76.4#





#62

4-Bromofluorobenzene

Concen: 51.940 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VN061328.D

Acq: 7 May 2020 13:01

Instrument :

MSVOA_N

ClientSampleId :

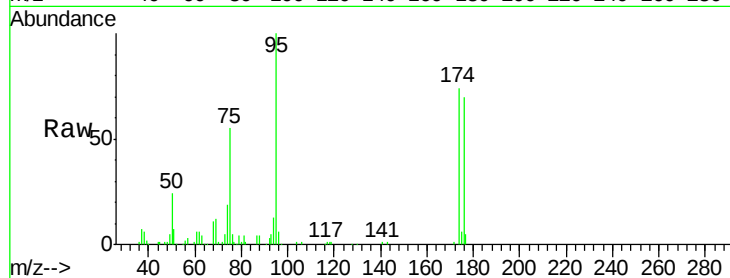
Tot Ion: 95 Resp: 88539

Ion Ratio Lower Upper

95 100

174 72.4 0.0 149.4

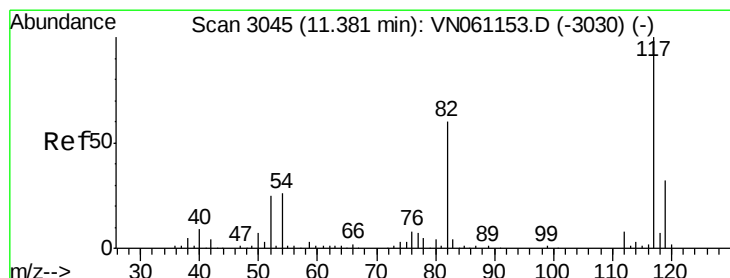
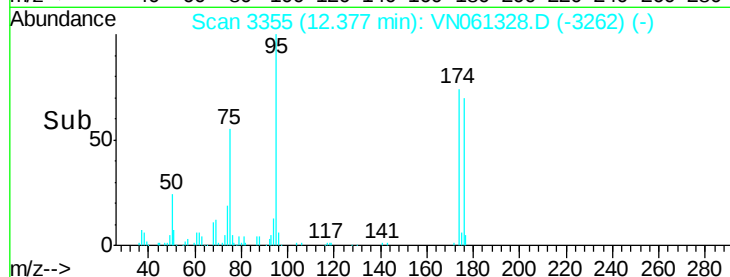
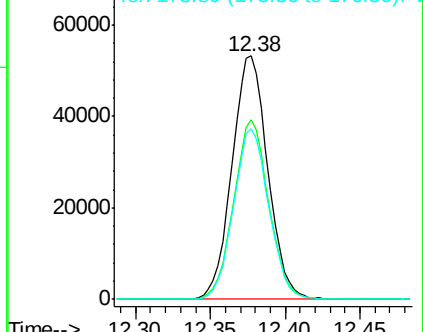
176 69.1 0.0 144.8



Abundance Ion 94.90 (94.60 to 95.60): VN061153.D (-3341) (-)

Ion 173.80 (173.50 to 174.50): VN061153.D (-3341) (-)

Ion 175.80 (175.50 to 176.50): VN061153.D (-3341) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 3045

Delta R.T. 0.00 min

Lab File: VN061328.D

Acq: 7 May 2020 13:01

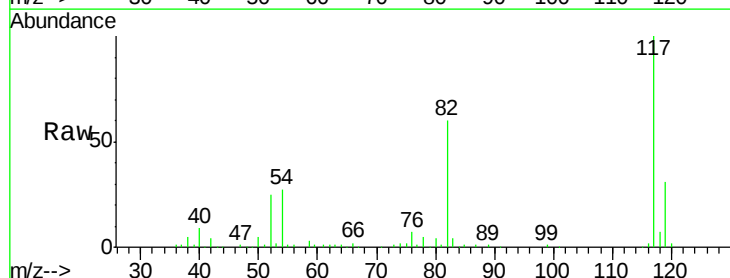
Tgt Ion: 117 Resp: 186379

Ion Ratio Lower Upper

117 100

82 59.9 47.8 71.8

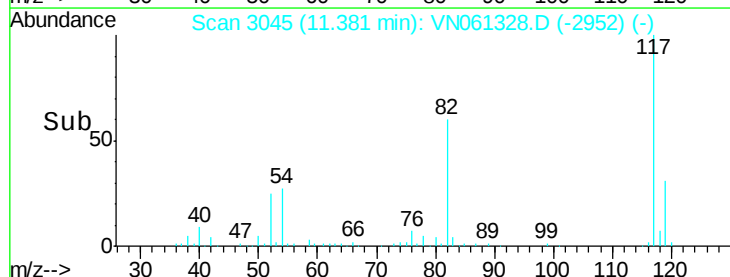
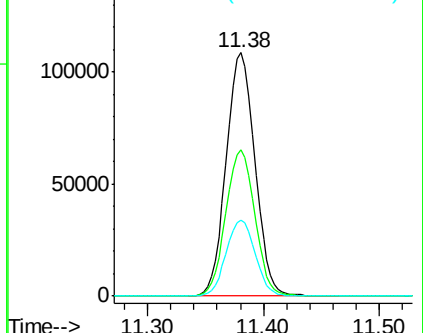
119 31.4 25.8 38.6

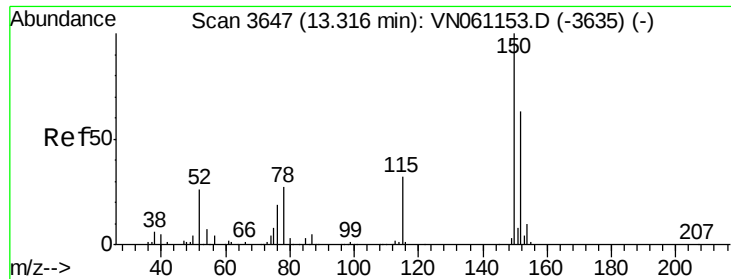


Abundance Ion 116.90 (116.60 to 117.60): VN061153.D (-3030) (-)

Ion 82.00 (81.70 to 82.70): VN061153.D (-3030) (-)

Ion 118.90 (118.60 to 119.60): VN061153.D (-3030) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3648

Delta R.T. 0.00 min

Lab File: VN061328.D

Acq: 7 May 2020 13:01

Instrument :

MSVOA_N

ClientSampleId :

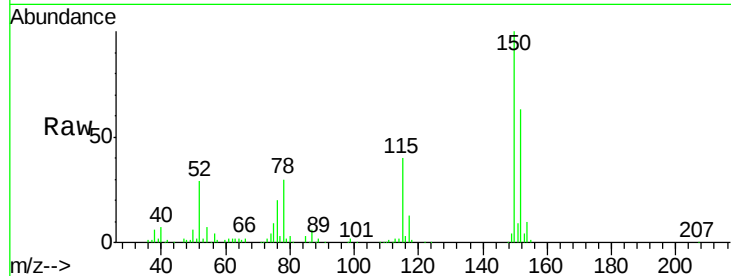
Tot Ion:152 Resp: 77294

Ion Ratio Lower Upper

152 100

115 62.3 31.0 93.0

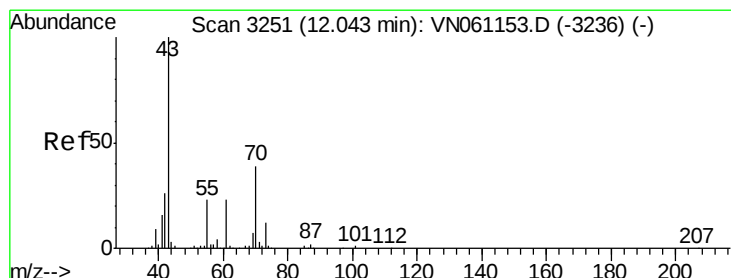
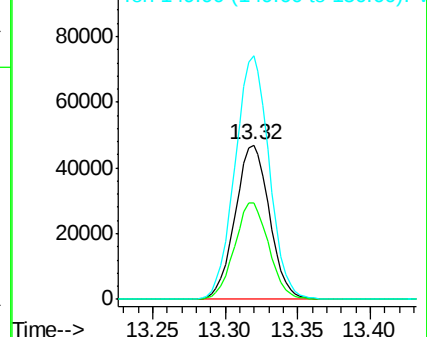
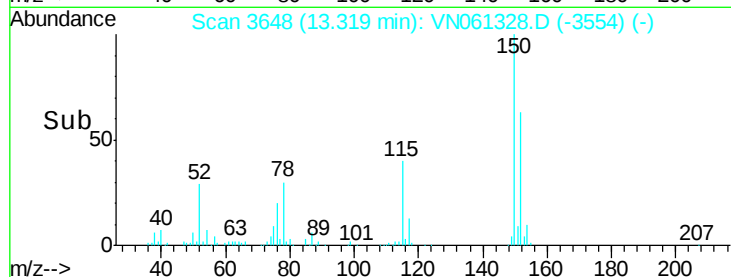
150 157.3 0.0 351.8



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-ethyl acetate

Concen: 0.509 ug/l

RT: 12.00 min Scan# 3238

Delta R.T. -0.04 min

Lab File: VN061328.D

Acq: 7 May 2020 13:01

Tgt Ion: 43 Resp: 1466

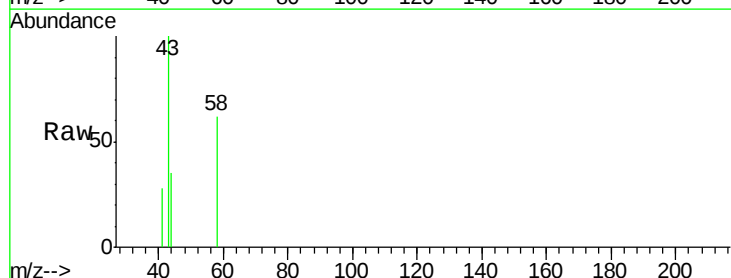
Ion Ratio Lower Upper

43 100

70 0.0 30.6 46.0#

55 0.0 18.5 27.7#

61 0.0 17.9 26.9#

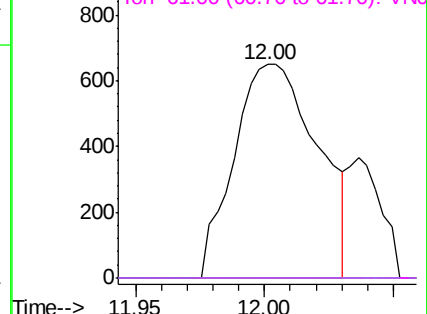
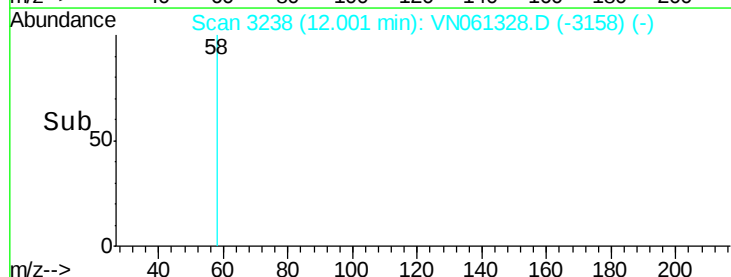


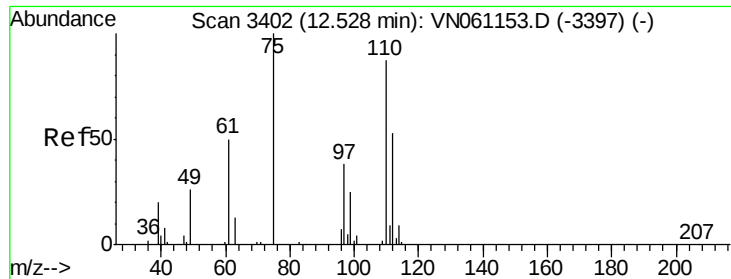
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 30.188 ug/l

RT: 12.37 min Scan# 3354

Delta R.T. -0.15 min

Lab File: VN061328.D

Acq: 7 May 2020 13:01

Instrument :

MSVOA_N

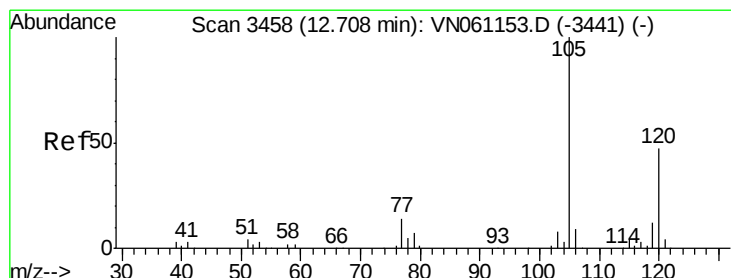
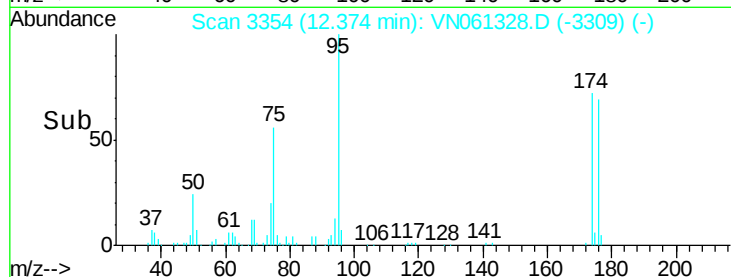
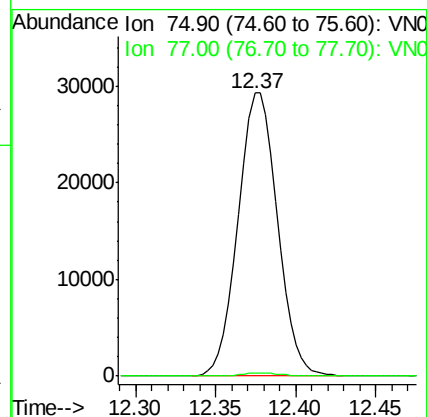
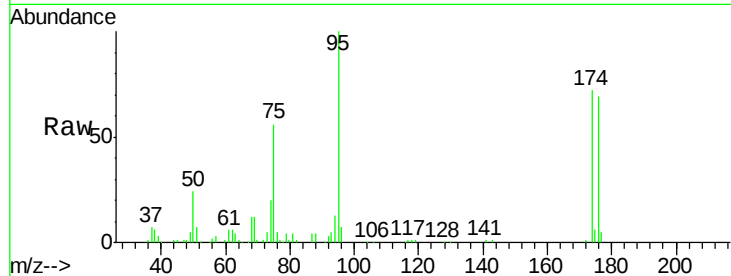
ClientSampled :

Tot Ion: 75 Resp: 49194

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.203 ug/l

RT: 12.71 min Scan# 3458

Delta R.T. 0.00 min

Lab File: VN061328.D

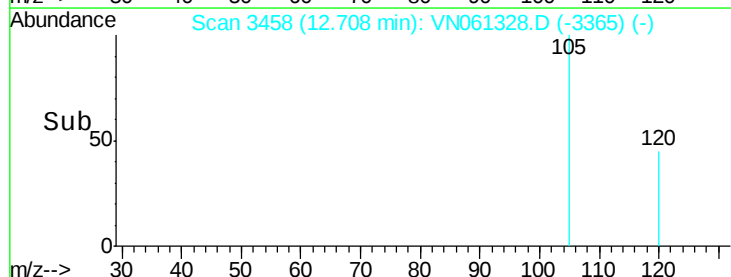
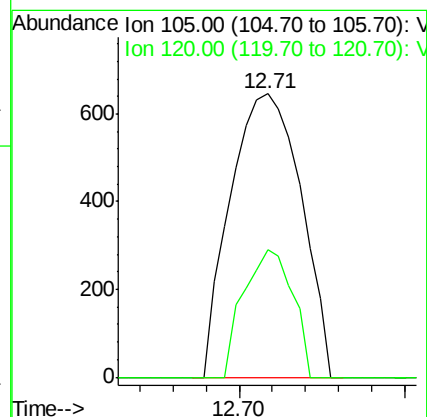
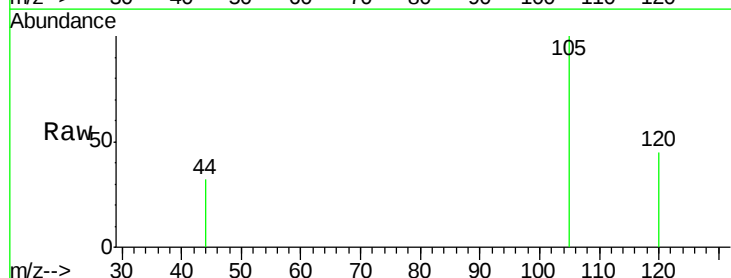
Acq: 7 May 2020 13:01

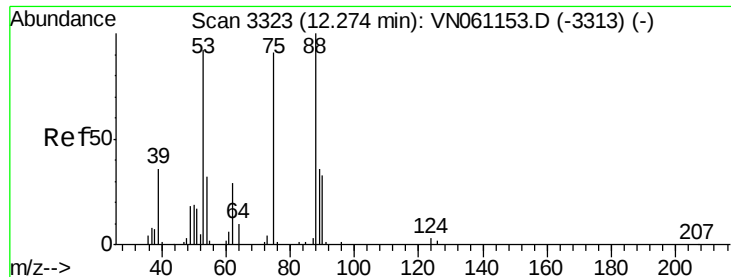
Tgt Ion:105 Resp: 957

Ion Ratio Lower Upper

105 100

120 31.0 23.9 71.7





#81

trans-1,4-Dichloro-2-butene

Concen: 76.663 ug/l

RT: 12.37 min Scan# 3354

Delta R.T. 0.10 min

Lab File: VN061328.D

Acq: 7 May 2020 13:01

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 49194

Ion Ratio Lower Upper

75 100

53 0.0 84.1 126.1#

89 0.0 35.2 52.8#

