

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052323\
 Data File : VN077820.D
 Acq On : 23 May 2023 16:42
 Operator : JC\MD
 Sample : PB152982ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152982ZHE#02

Quant Time: May 24 02:55:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

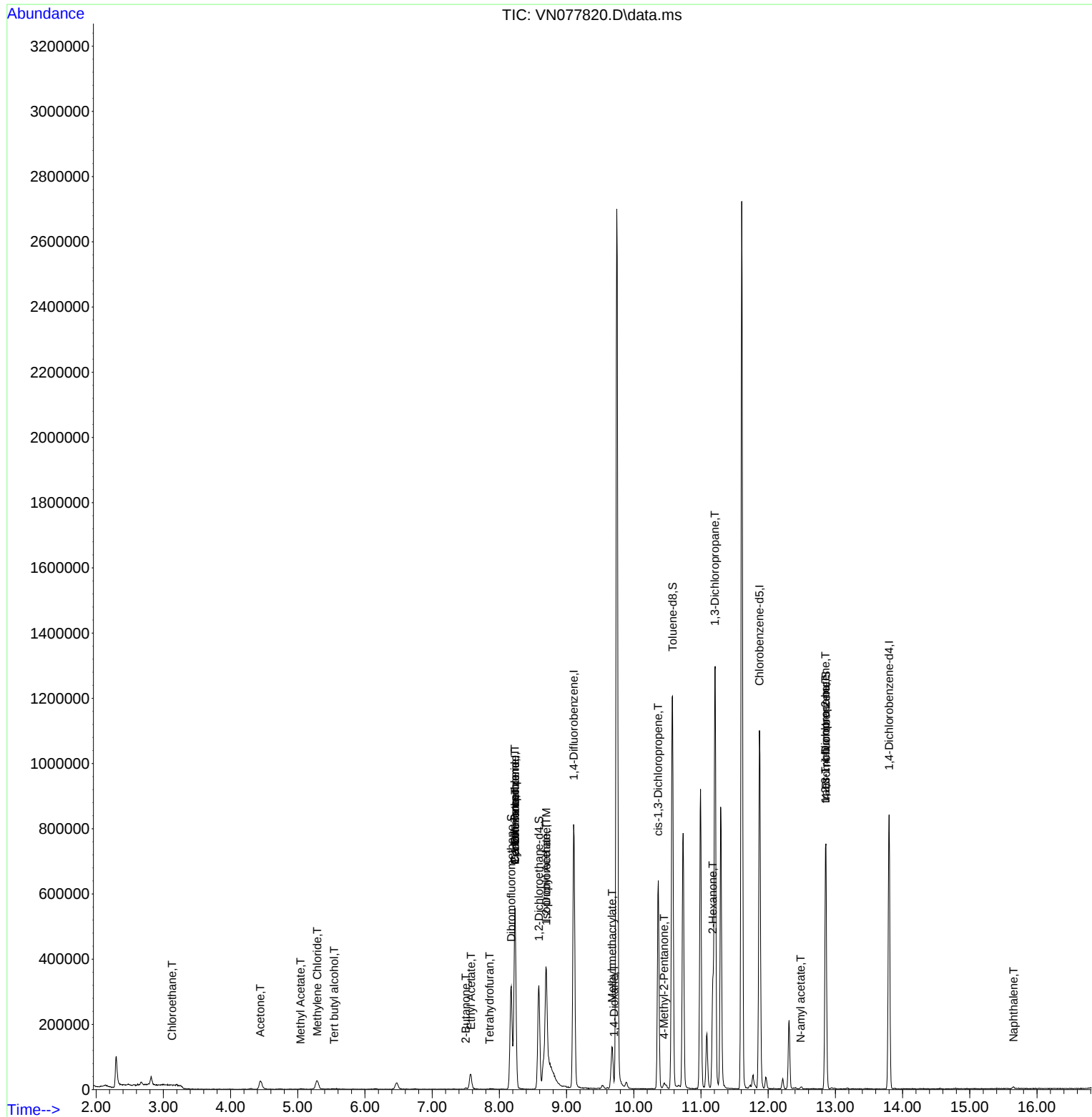
Internal Standards						
1) Pentafluorobenzene	8.236	168	393446	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	720349	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	652284	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	233172	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	263007	44.676	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	89.360%		
35) Dibromofluoromethane	8.177	113	223759	47.636	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.280%		
50) Toluene-d8	10.577	98	887580	49.091	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.180%		
62) 4-Bromofluorobenzene	12.859	95	276657	43.325	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	86.660%		
Target Compounds						Qvalue
3) Chloromethane	2.371	50	1650	Below Cal		95
6) Chloroethane	3.130	64	1024	0.252 ug/l #		43
11) Tert butyl alcohol	5.542	59	1017	1.252 ug/l #		72
13) Acrolein	4.200	56	199	Below Cal #		16
16) Acetone	4.442	43	49344	26.642 ug/l		94
18) Methyl Acetate	5.042	43	1731	0.223 ug/l #		85
20) Methylene Chloride	5.289	84	21649	2.618 ug/l		94
25) 2-Butanone	7.500	43	5204	1.796 ug/l #		81
29) Tetrahydrofuran	7.853	42	1060	0.559 ug/l #		44
31) Cyclohexane	8.236	56	9145	1.143 ug/l #		19
36) 1,1-Dichloropropene	8.230	75	31479	4.582 ug/l #		49
37) Ethyl Acetate	7.577	43	63363	10.347 ug/l		97
38) Carbon Tetrachloride	8.230	117	43754	6.307 ug/l #		16
42) 1,2-Dichloroethane	8.700	62	2603	0.353 ug/l #		73
43) Isopropyl Acetate	8.694	43	501069	50.094 ug/l #		73
48) Methyl methacrylate	9.677	41	8171	1.723 ug/l #		26
49) 1,4-Dioxane	9.706	88	241	2.691 ug/l #		30
51) 4-Methyl-2-Pentanone	10.453	43	11555	1.943 ug/l		98
54) cis-1,3-Dichloropropene	10.365	75	118961	14.388 ug/l #		67
57) 1,3-Dichloropropane	11.206	76	14963	1.742 ug/l #		42
59) 2-Hexanone	11.177	43	255827	58.172 ug/l #		19
74) N-amyl acetate	12.482	43	2859	0.385 ug/l #		42
76) 1,2,3-Trichloropropane	12.853	75	144189	24.692 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.853	75	144189	78.929 ug/l #		15
95) Naphthalene	15.653	128	5300	0.333 ug/l #		92

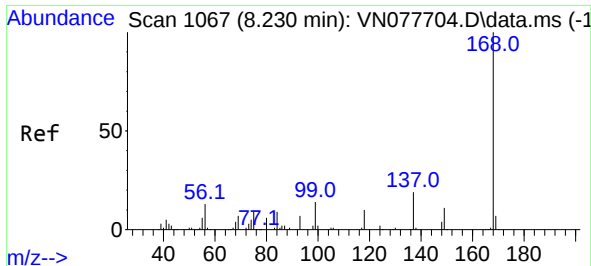
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : PB152982ZHE#02
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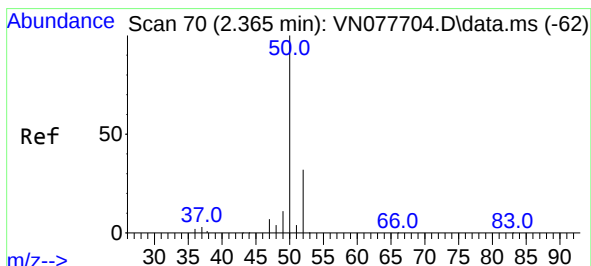
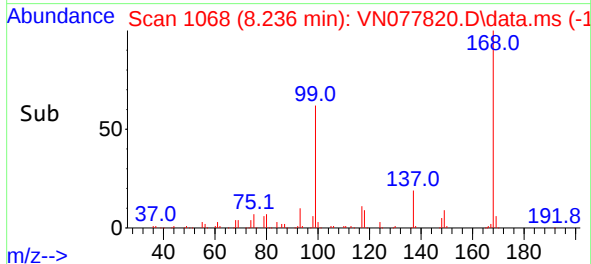
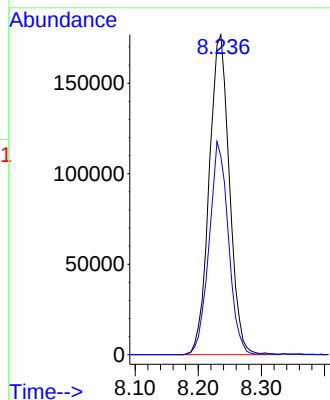
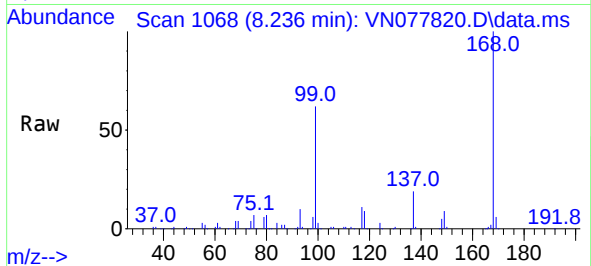




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

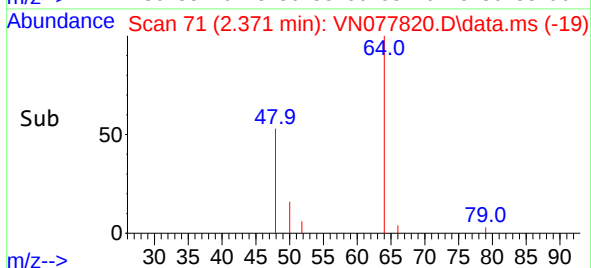
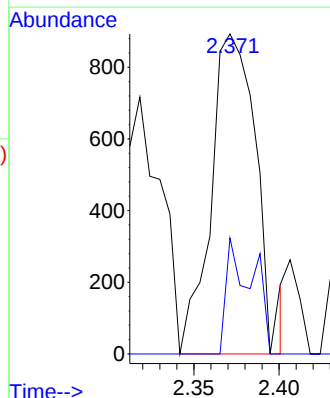
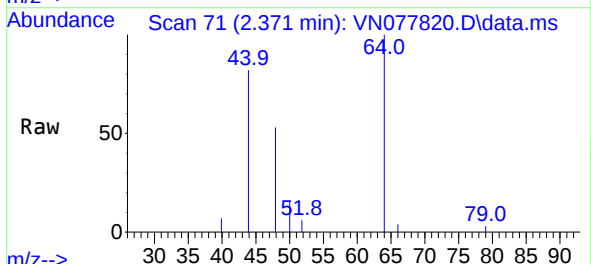
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#02

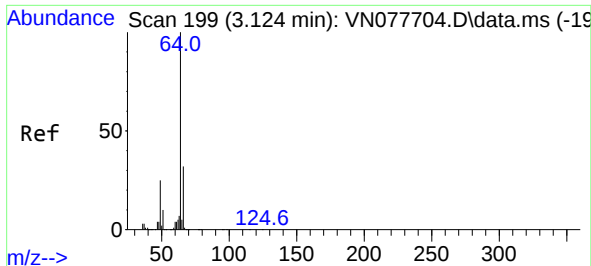
Tgt Ion:168 Resp: 393446
Ion Ratio Lower Upper
168 100
99 62.0 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

Tgt Ion: 50 Resp: 1650
Ion Ratio Lower Upper
50 100
52 36.2 26.5 39.7

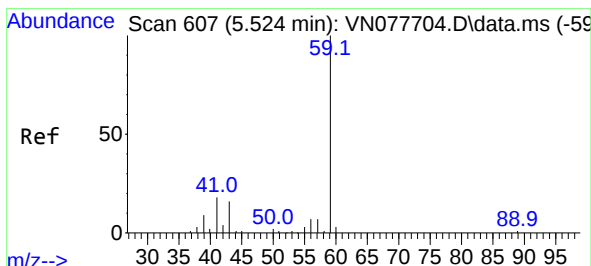
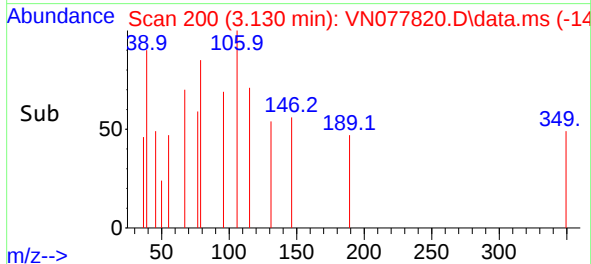
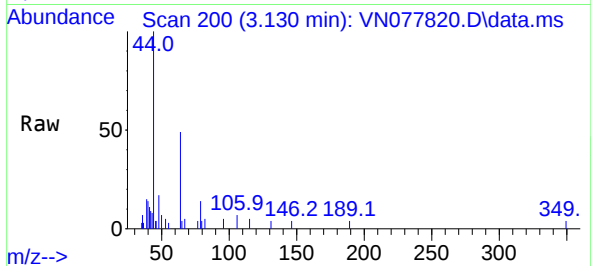




#6
Chloroethane
Concen: 0.252 ug/l
RT: 3.130 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

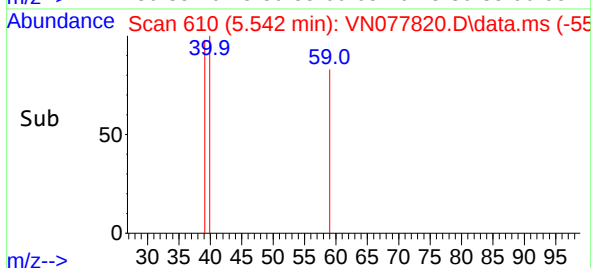
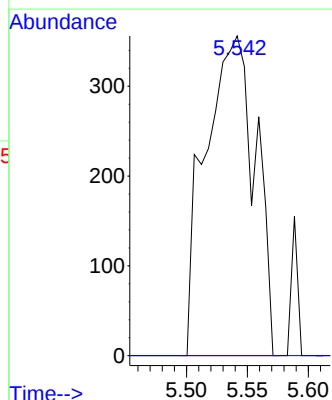
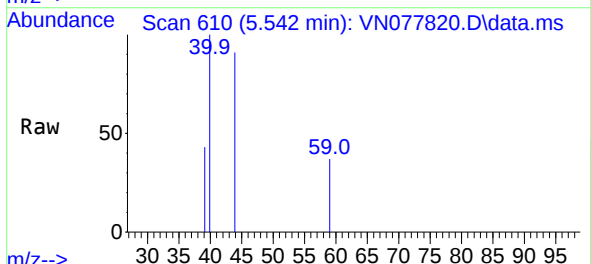
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#02

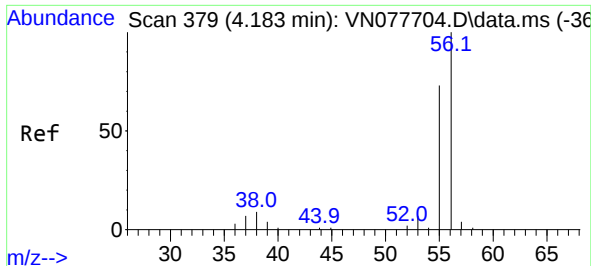
Tgt Ion: 64 Resp: 1024
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 1.252 ug/l
RT: 5.542 min Scan# 610
Delta R.T. 0.012 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

Tgt Ion: 59 Resp: 1017
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

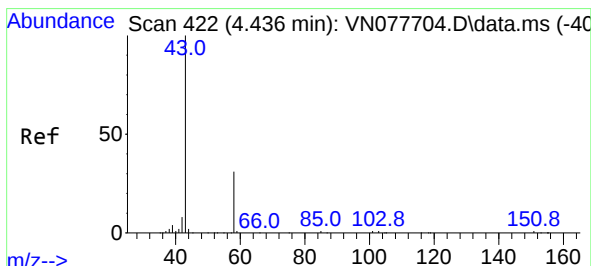
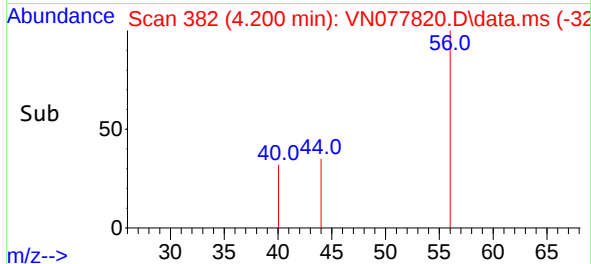
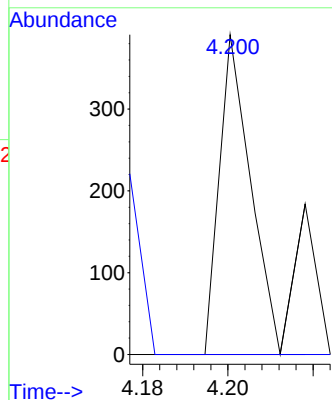
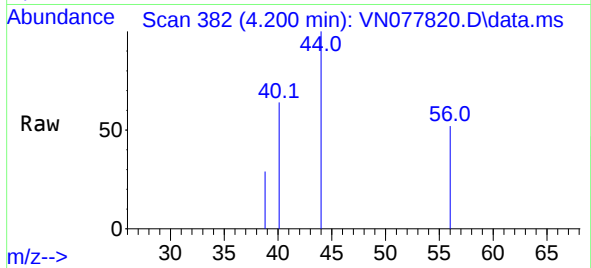




#13
Acrolein
Concen: Below Cal
RT: 4.200 min Scan# 31
Delta R.T. 0.011 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

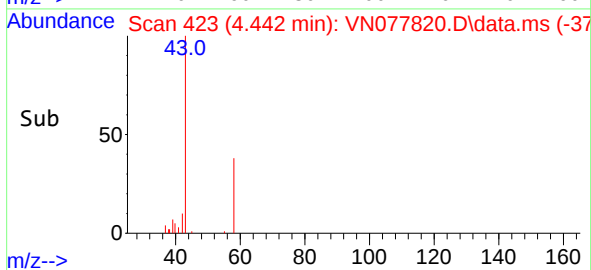
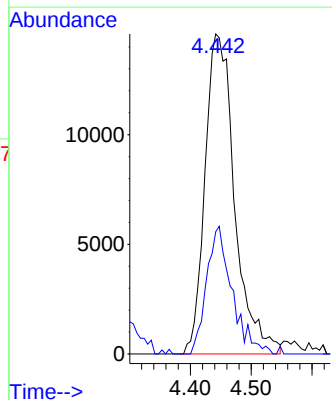
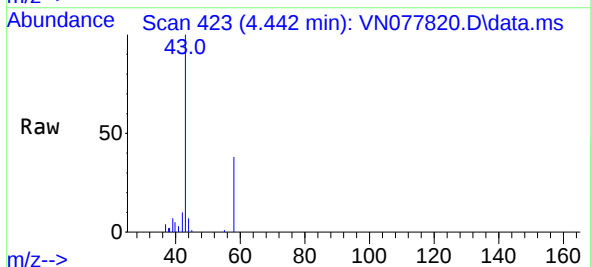
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#02

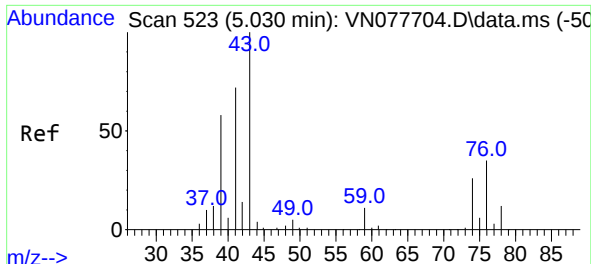
Tgt Ion: 56 Resp: 199
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#16
Acetone
Concen: 26.642 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.012 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

Tgt Ion: 43 Resp: 49344
Ion Ratio Lower Upper
43 100
58 38.2 28.0 42.0

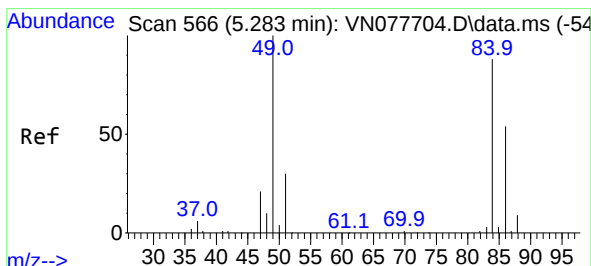
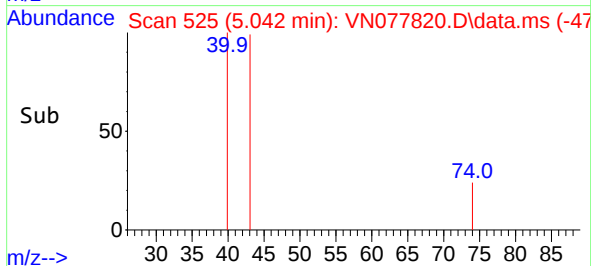
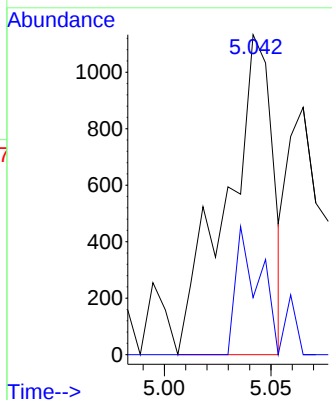
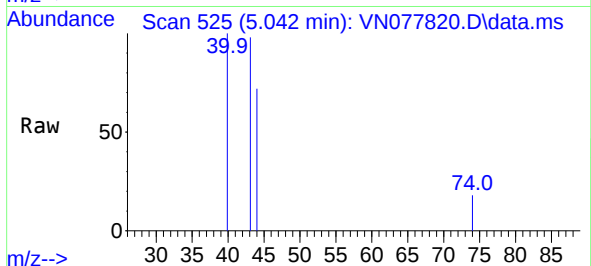




#18
Methyl Acetate
Concen: 0.223 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

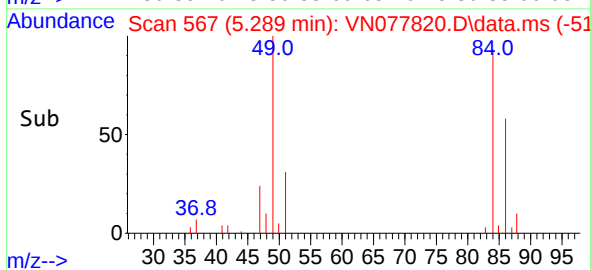
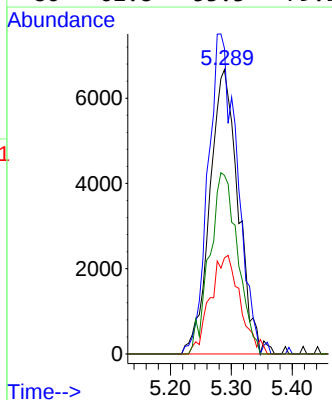
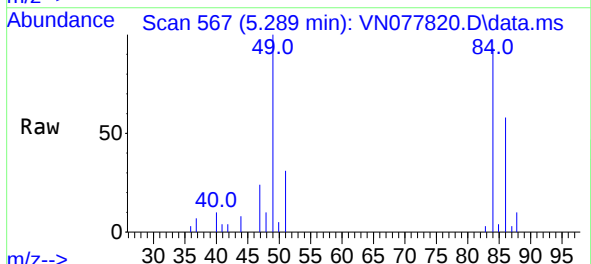
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#02

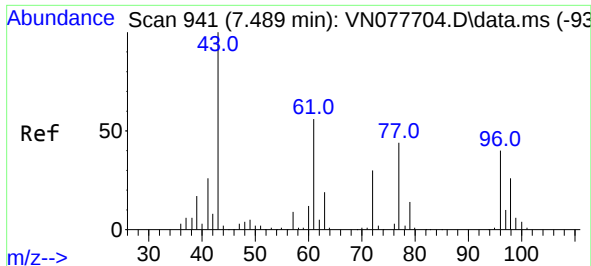
Tgt Ion: 43 Resp: 1731
Ion Ratio Lower Upper
43 100
74 24.6 26.2 39.4#



#20
Methylene Chloride
Concen: 2.618 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

Tgt Ion: 84 Resp: 21649
Ion Ratio Lower Upper
84 100
49 107.5 79.7 119.5
51 33.8 25.2 37.8
86 62.8 53.3 79.9

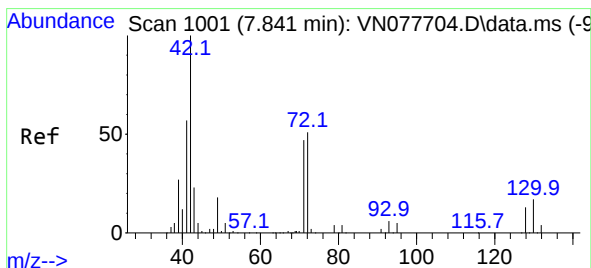
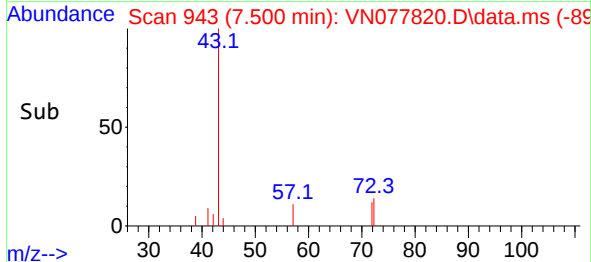
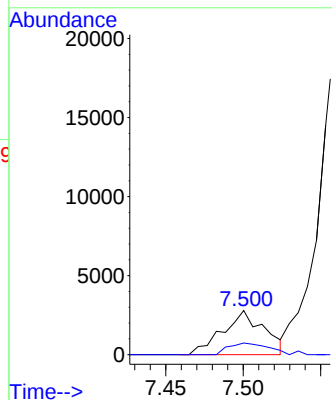
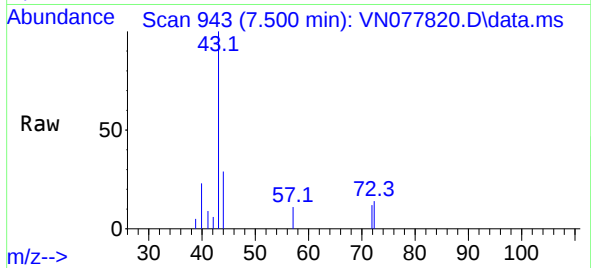




#25
2-Butanone
Concen: 1.796 ug/l
RT: 7.500 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

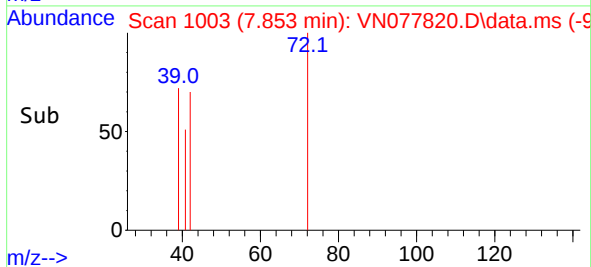
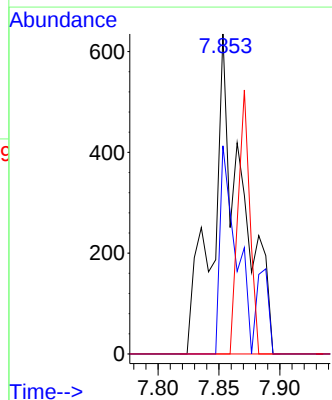
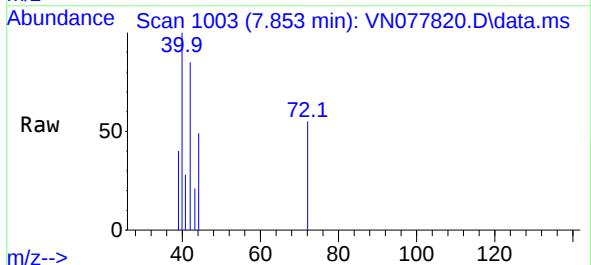
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#02

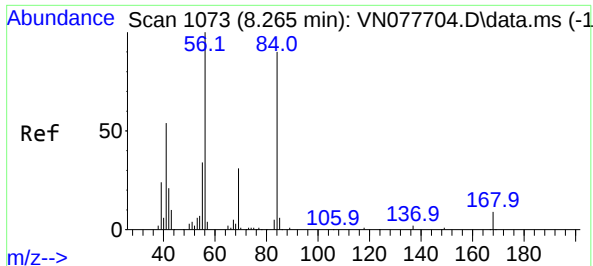
Tgt Ion: 43 Resp: 5204
Ion Ratio Lower Upper
43 100
72 26.4 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.559 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.012 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

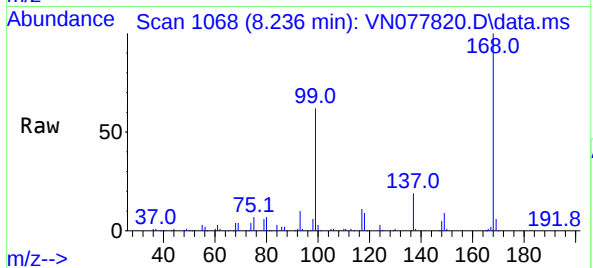
Tgt Ion: 42 Resp: 1060
Ion Ratio Lower Upper
42 100
72 35.6 49.8 74.6#
71 0.0 47.4 71.2#



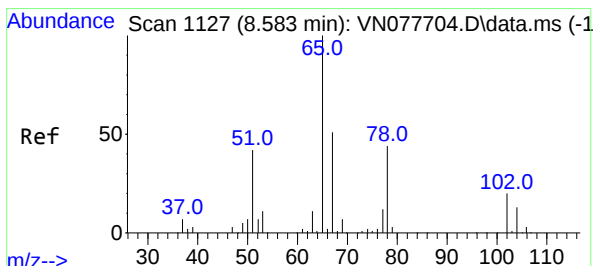
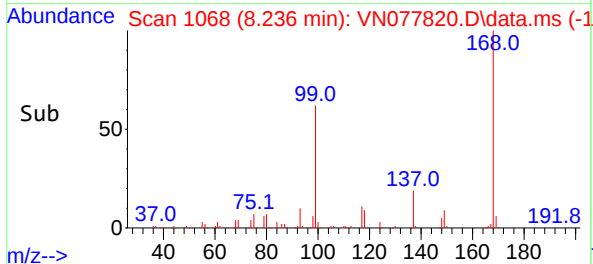
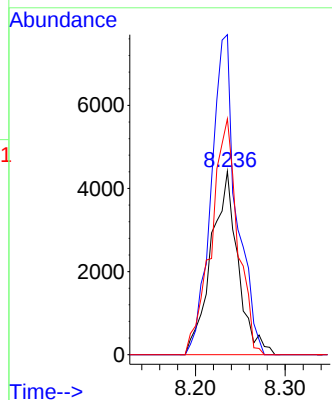


#31
Cyclohexane
Concen: 1.143 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

Instrument :
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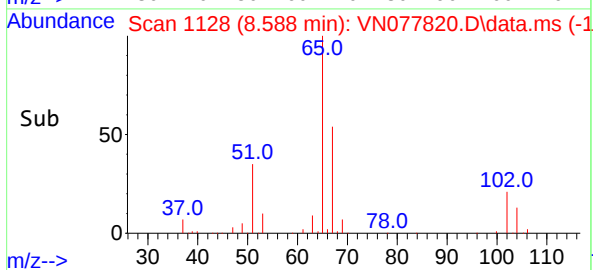
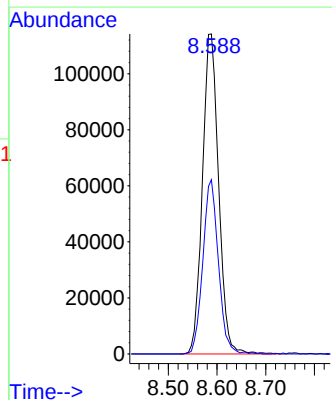
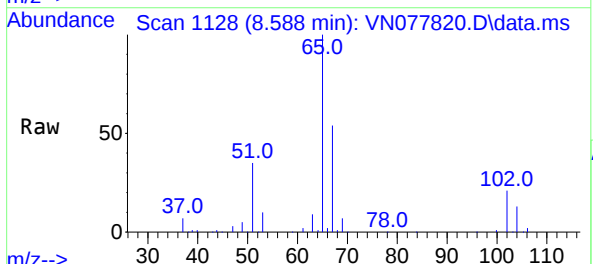


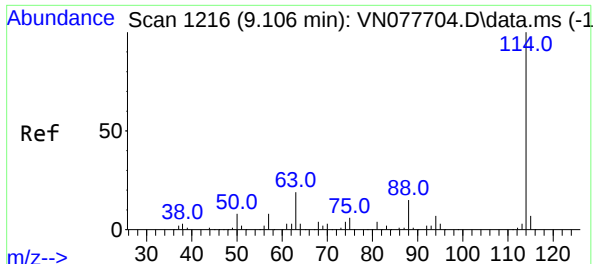
Tgt Ion: 56 Resp: 9145
Ion Ratio Lower Upper
56 100
69 174.6 26.8 40.2#
84 128.7 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 44.676 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

Tgt Ion: 65 Resp: 263007
Ion Ratio Lower Upper
65 100
67 52.5 0.0 106.6

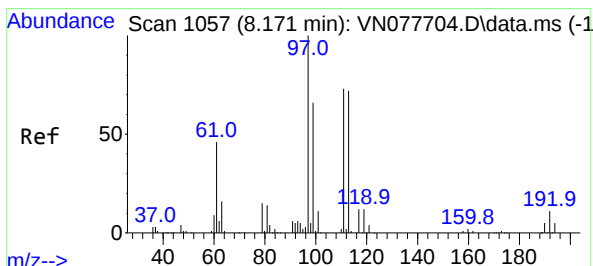
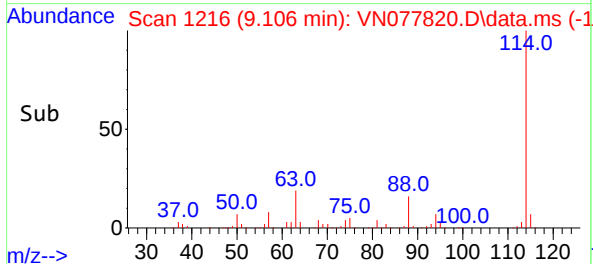
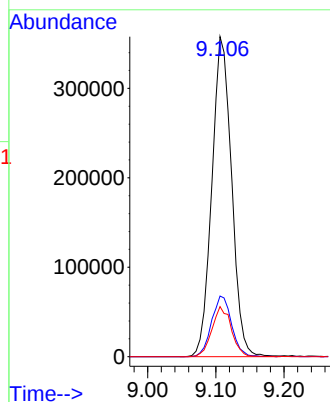
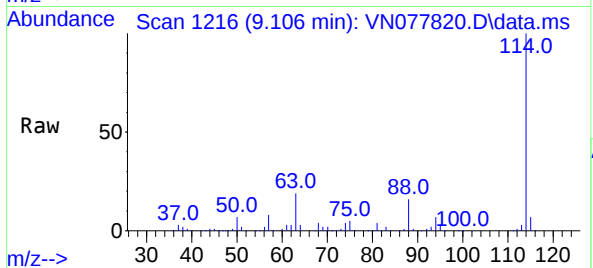




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

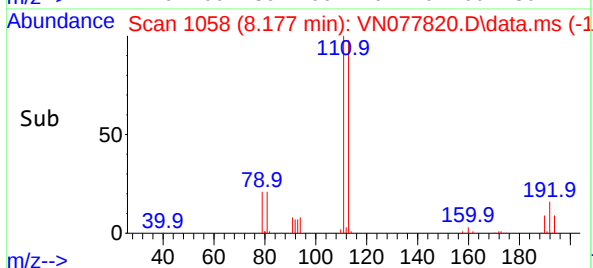
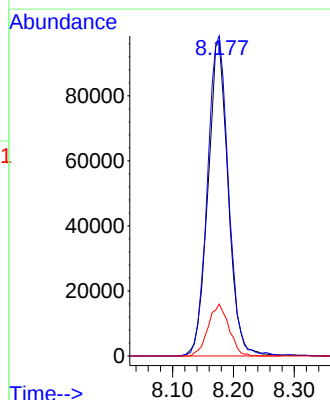
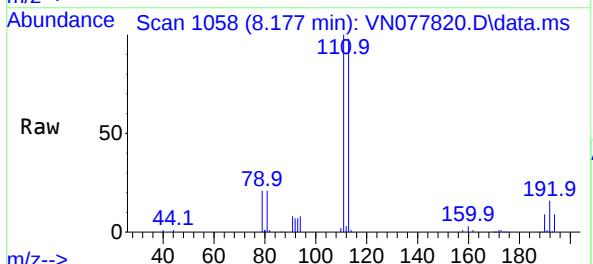
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#02

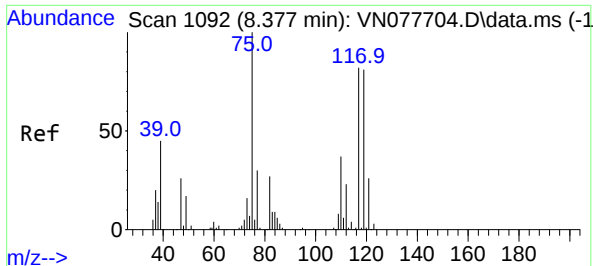
Tgt Ion:114 Resp: 720349
Ion Ratio Lower Upper
114 100
63 19.0 0.0 36.4
88 15.7 0.0 30.6



#35
Dibromofluoromethane
Concen: 47.636 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

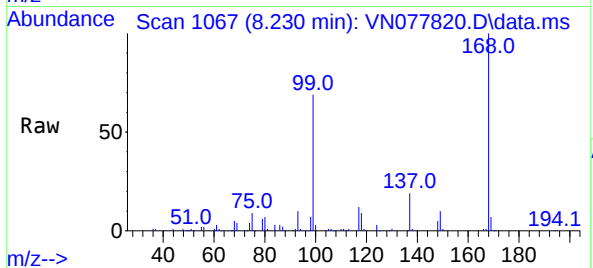
Tgt Ion:113 Resp: 223759
Ion Ratio Lower Upper
113 100
111 105.5 82.6 123.8
192 16.8 12.7 19.1



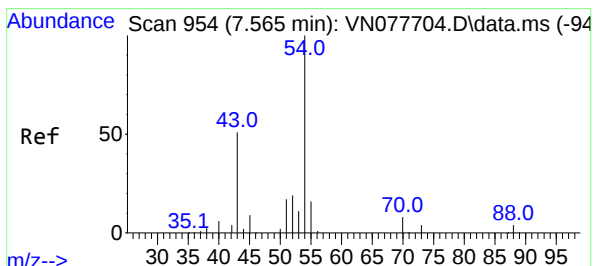
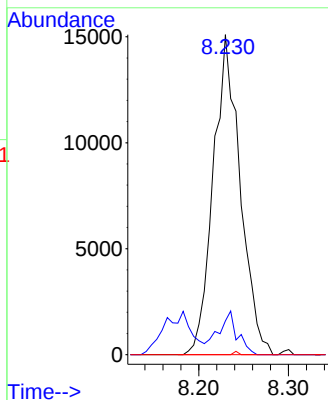
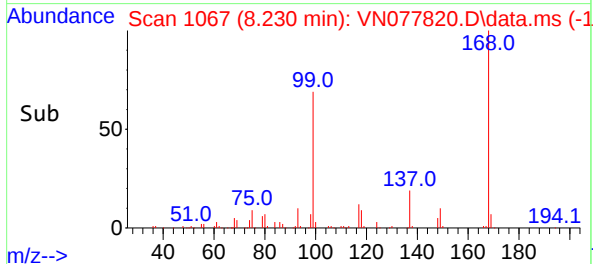


#36
1,1-Dichloropropene
Concen: 4.582 ug/l
RT: 8.230 min Scan# 1092
Delta R.T. -0.147 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

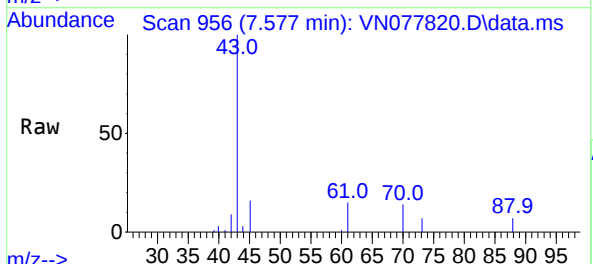
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#02



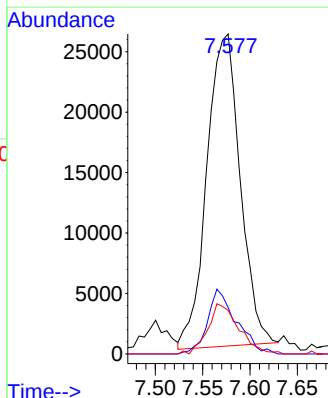
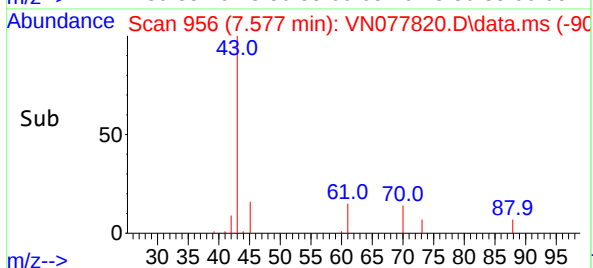
Tgt Ion: 75 Resp: 31479
Ion Ratio Lower Upper
75 100
110 9.7 19.1 57.3#
77 0.2 25.0 37.4#

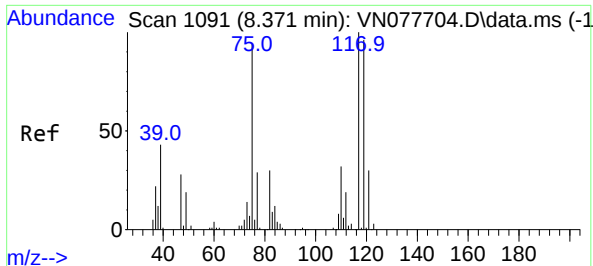


#37
Ethyl Acetate
Concen: 10.347 ug/l
RT: 7.577 min Scan# 956
Delta R.T. 0.012 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42



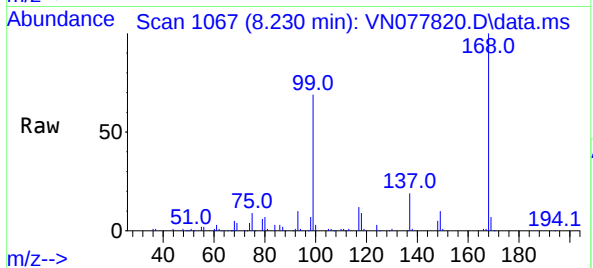
Tgt Ion: 43 Resp: 63363
Ion Ratio Lower Upper
43 100
61 17.9 13.2 19.8
70 14.9 11.3 16.9



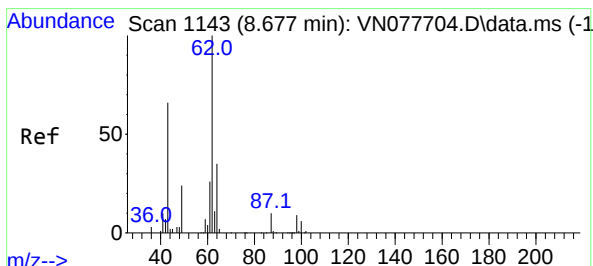
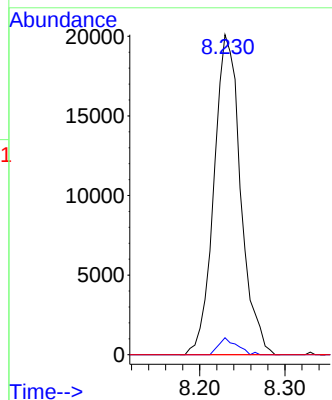
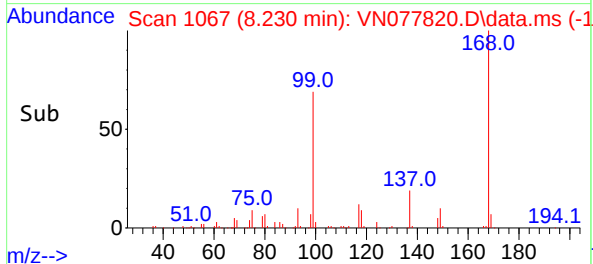


#38
Carbon Tetrachloride
Concen: 6.307 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#02

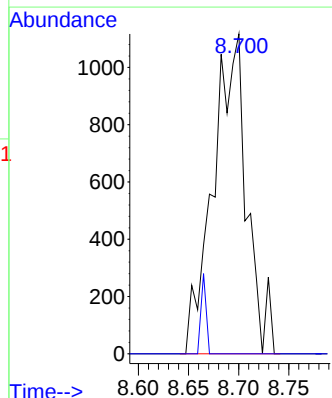
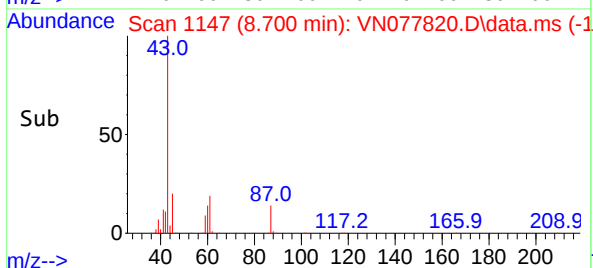
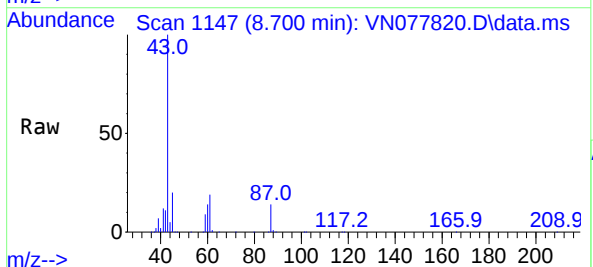


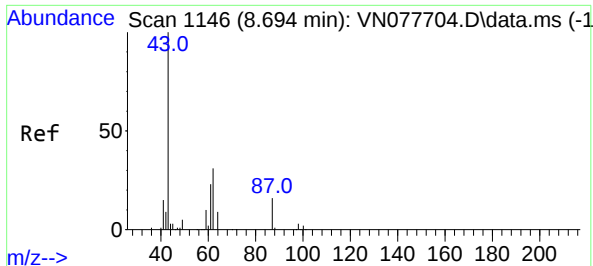
Tgt Ion:117 Resp: 43754
Ion Ratio Lower Upper
117 100
119 5.3 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.353 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.023 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

Tgt Ion: 62 Resp: 2603
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

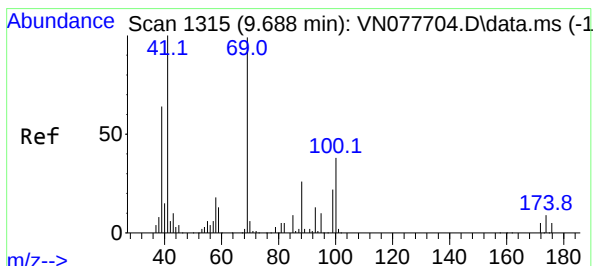
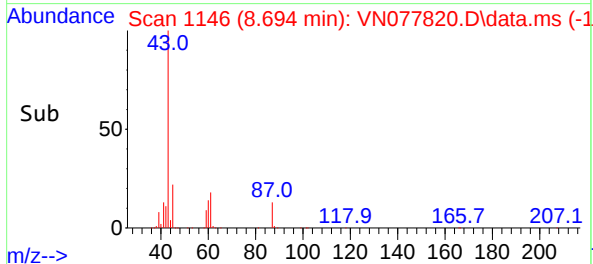
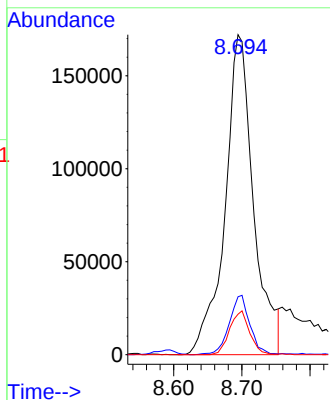
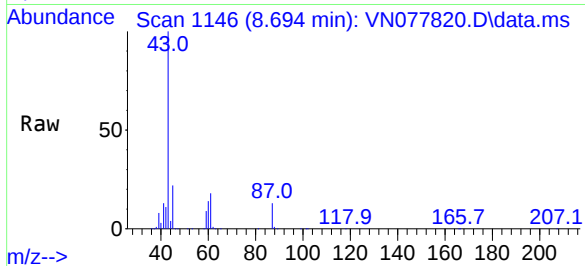




#43
Isopropyl Acetate
Concen: 50.094 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

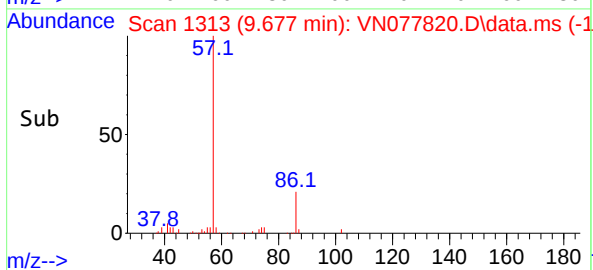
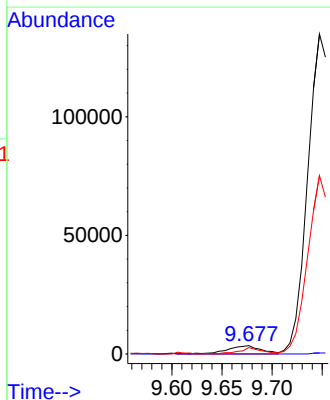
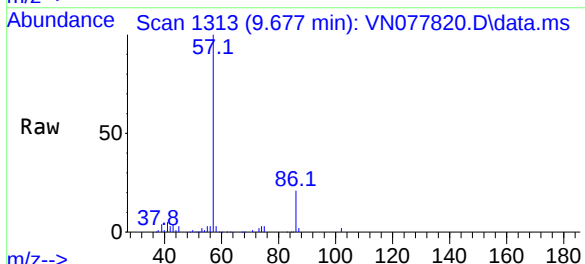
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#02

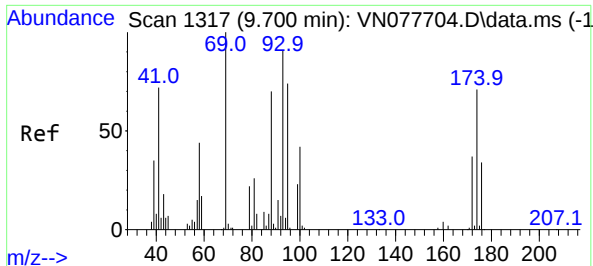
Tgt Ion: 43 Resp: 501069
Ion Ratio Lower Upper
43 100
61 13.6 24.7 37.1#
87 9.6 14.6 21.8#



#48
Methyl methacrylate
Concen: 1.723 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.011 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

Tgt Ion: 41 Resp: 8171
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 50.2 54.6 81.8#

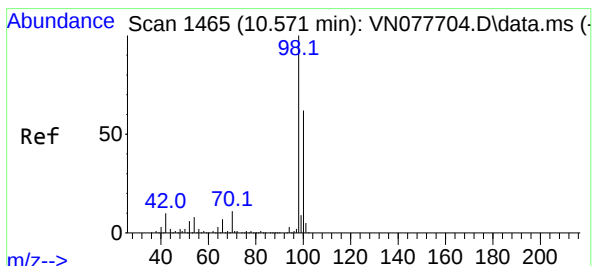
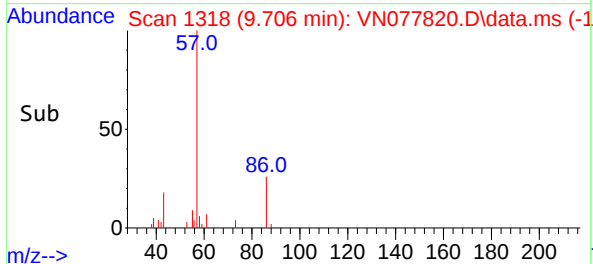
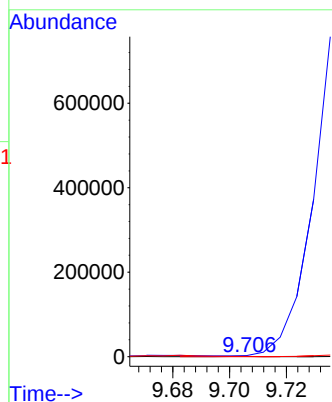
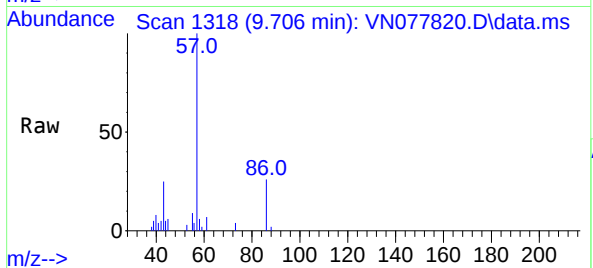




#49
1,4-Dioxane
Concen: 2.691 ug/l
RT: 9.706 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

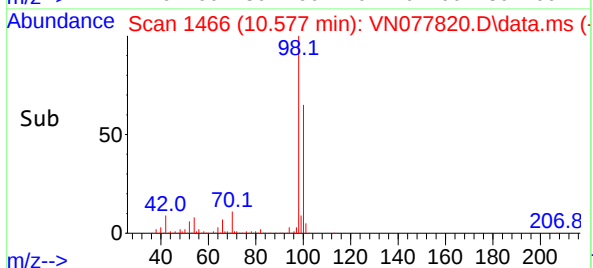
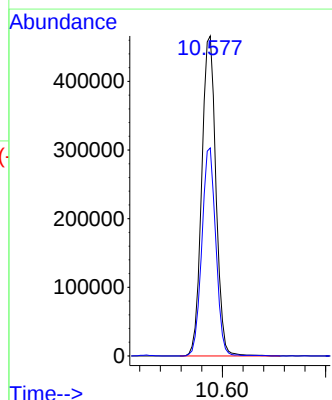
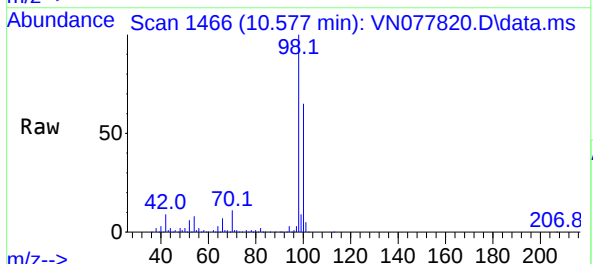
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#02

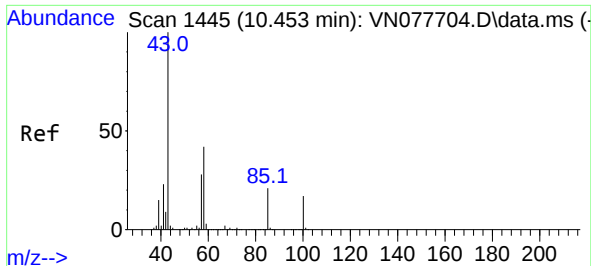
Tgt Ion: 88 Resp: 241
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#



#50
Toluene-d8
Concen: 49.091 ug/l
RT: 10.577 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

Tgt Ion: 98 Resp: 887580
Ion Ratio Lower Upper
98 100
100 63.8 52.0 78.0

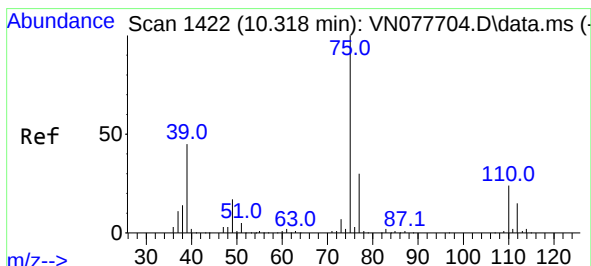
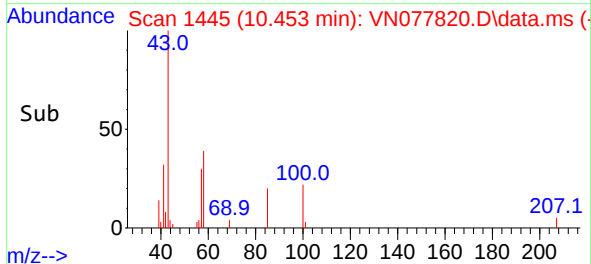
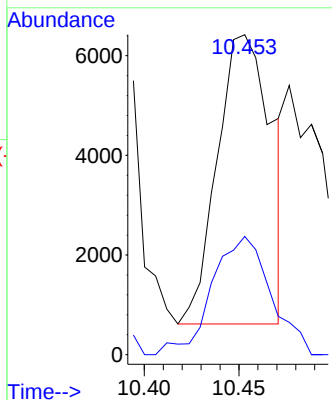
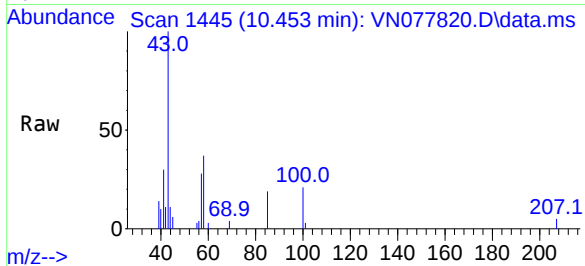




#51
4-Methyl-2-Pentanone
Concen: 1.943 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

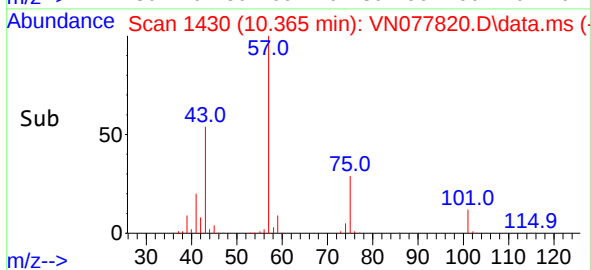
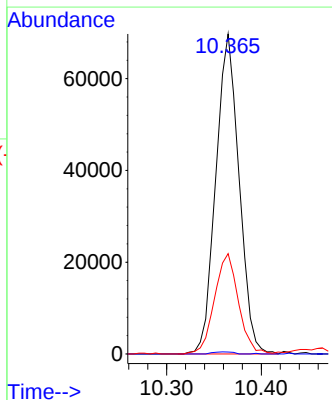
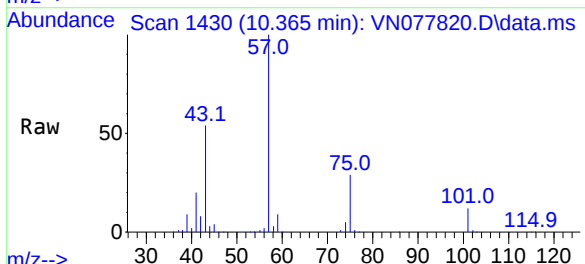
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#02

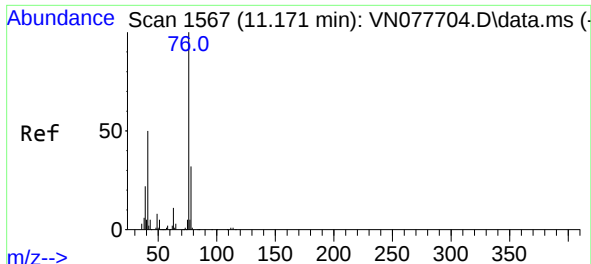
Tgt Ion: 43 Resp: 11555
Ion Ratio Lower Upper
43 100
58 44.3 36.6 54.8



#54
cis-1,3-Dichloropropene
Concen: 14.388 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

Tgt Ion: 75 Resp: 118961
Ion Ratio Lower Upper
75 100
77 0.6 26.1 39.1#
39 31.3 31.6 47.4#





#57

1,3-Dichloropropane

Concen: 1.742 ug/l

RT: 11.206 min Scan# 1

Delta R.T. 0.035 min

Lab File: VN077820.D

Acq: 23 May 2023 16:42

Instrument :

MSVOA_N

ClientSampleId :

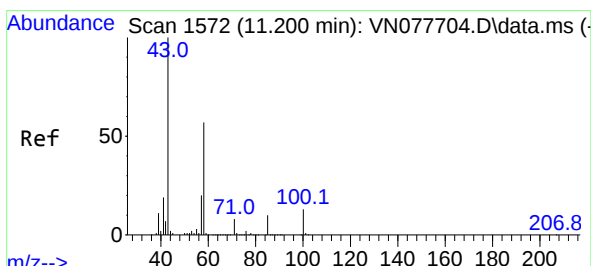
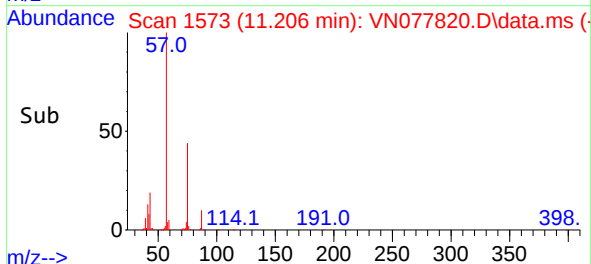
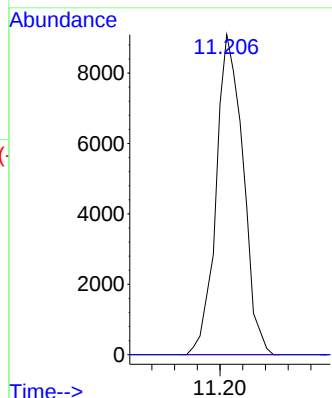
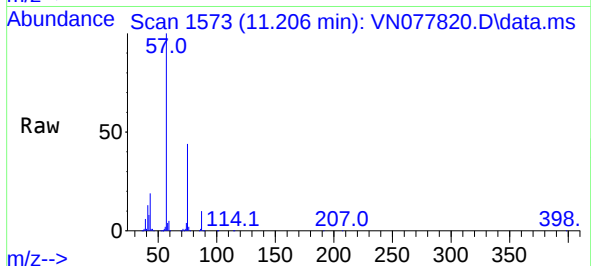
PB152982ZHE#02

Tgt Ion: 76 Resp: 14963

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 58.172 ug/l

RT: 11.177 min Scan# 1568

Delta R.T. -0.023 min

Lab File: VN077820.D

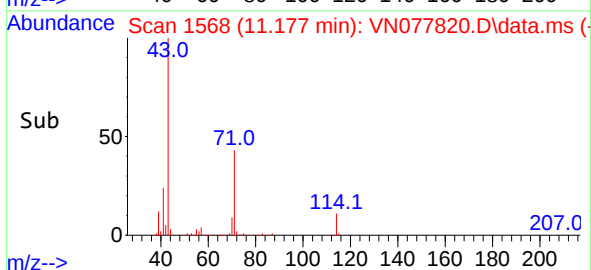
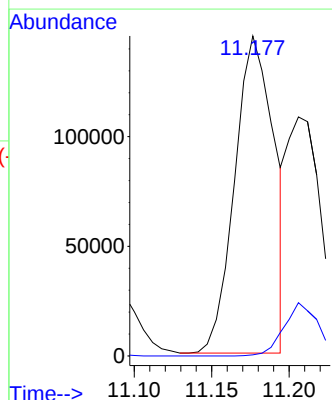
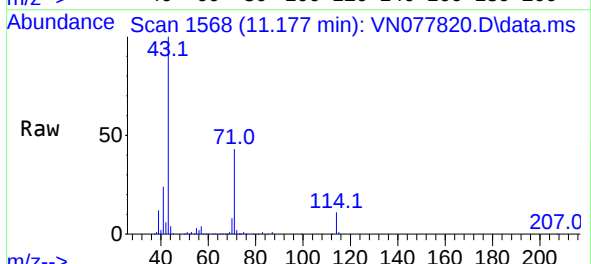
Acq: 23 May 2023 16:42

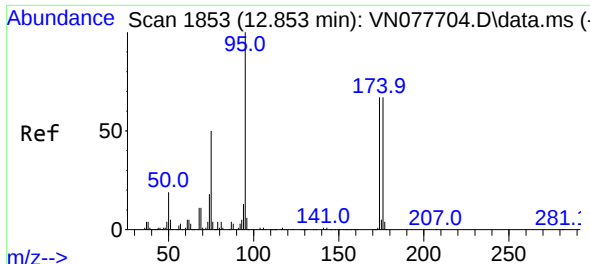
Tgt Ion: 43 Resp: 255827

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

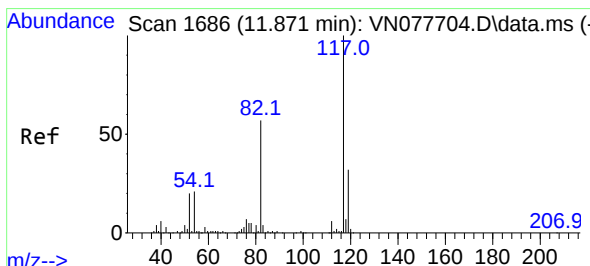
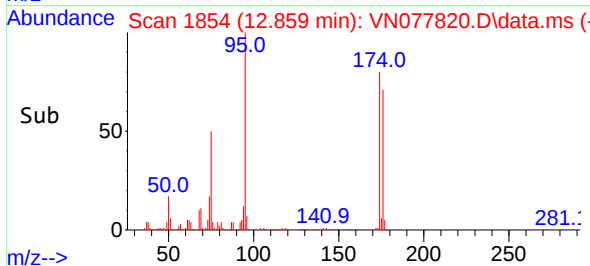
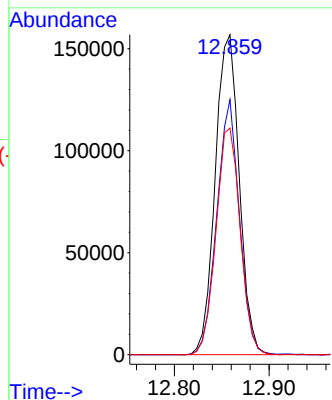
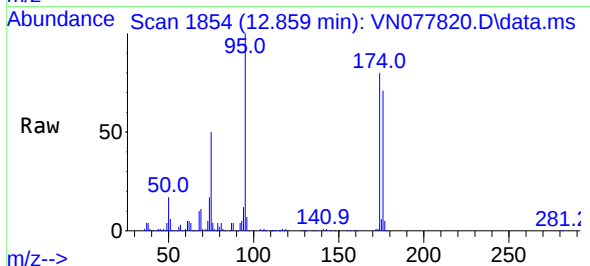




#62
4-Bromofluorobenzene
Concen: 43.325 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

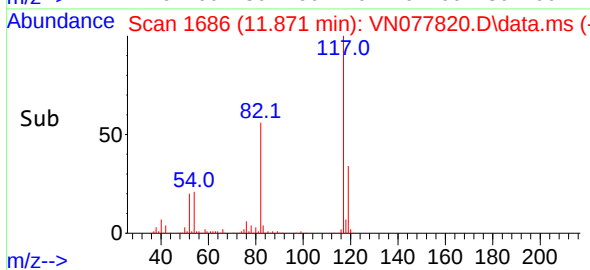
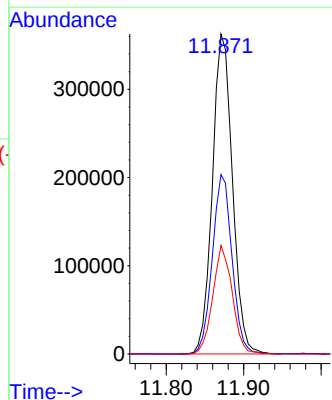
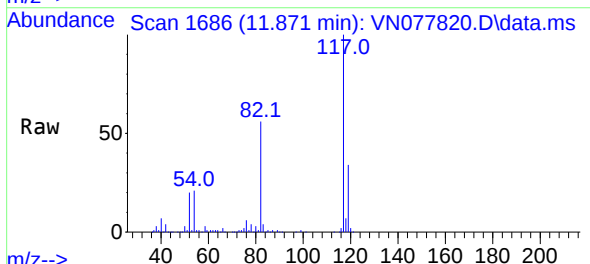
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#02

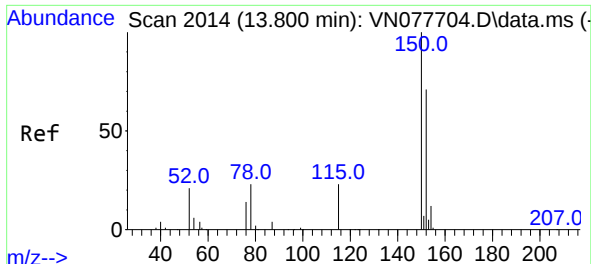
Tgt Ion: 95 Resp: 276657
Ion Ratio Lower Upper
95 100
174 75.2 0.0 143.8
176 71.2 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.001 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

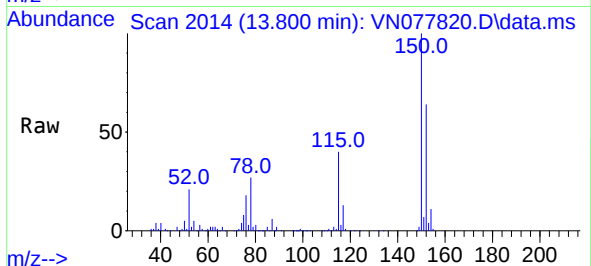
Tgt Ion: 117 Resp: 652284
Ion Ratio Lower Upper
117 100
82 56.1 44.0 66.0
119 33.9 25.6 38.4



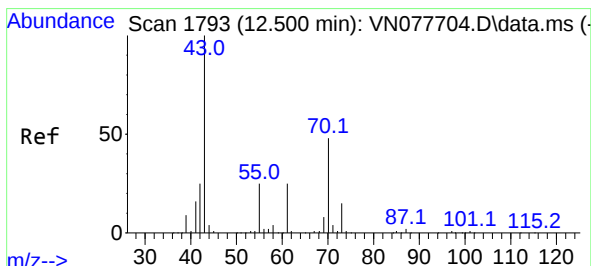
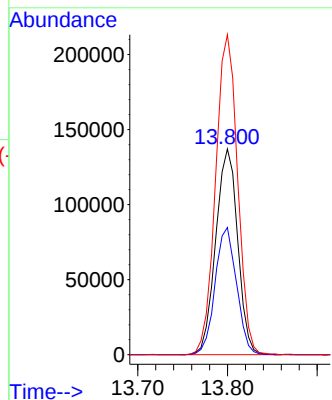
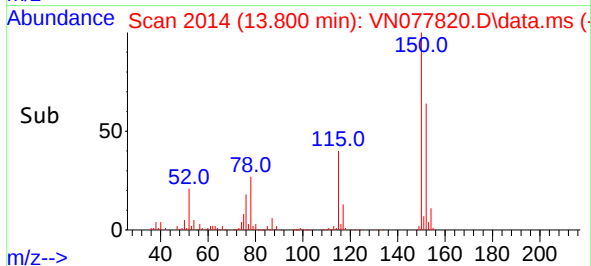


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

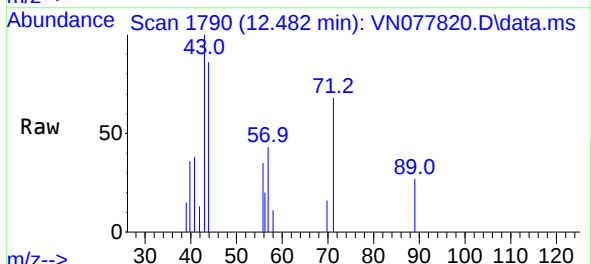
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#02



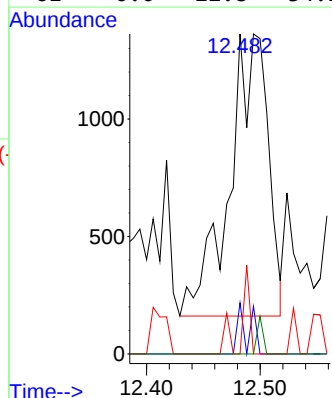
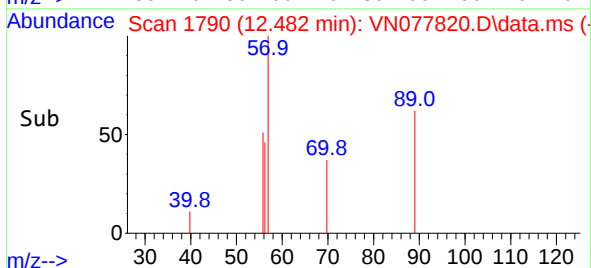
Tgt Ion:152 Resp: 233172
Ion Ratio Lower Upper
152 100
115 60.4 32.3 96.8
150 155.8 0.0 355.8

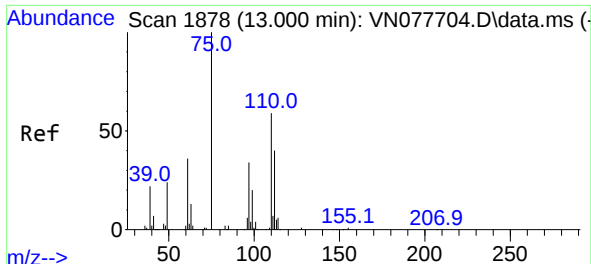


#74
N-ethyl acetate
Concen: 0.385 ug/l
RT: 12.482 min Scan# 1790
Delta R.T. -0.018 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42



Tgt Ion: 43 Resp: 2859
Ion Ratio Lower Upper
43 100
70 5.2 43.4 65.2#
55 4.7 21.4 32.0#
61 0.0 22.8 34.2#

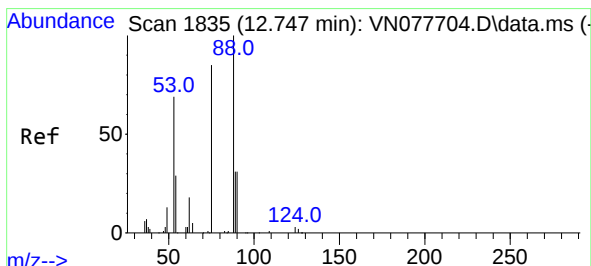
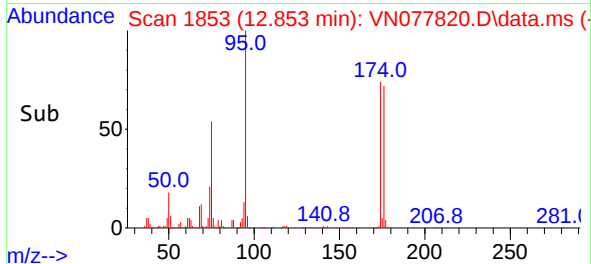
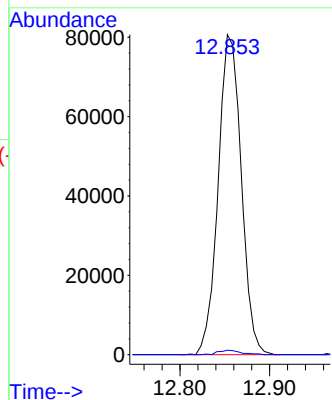
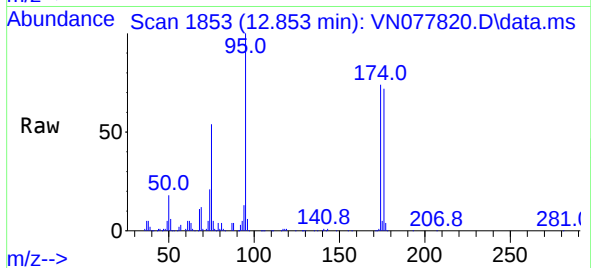




#76
1,2,3-Trichloropropane
Concen: 24.692 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

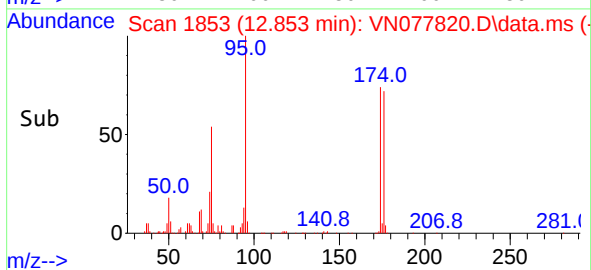
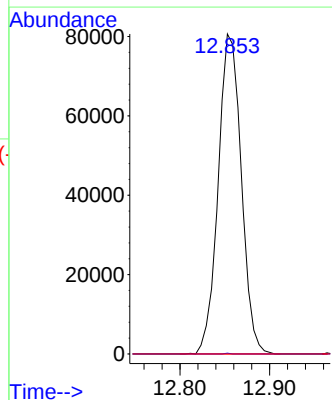
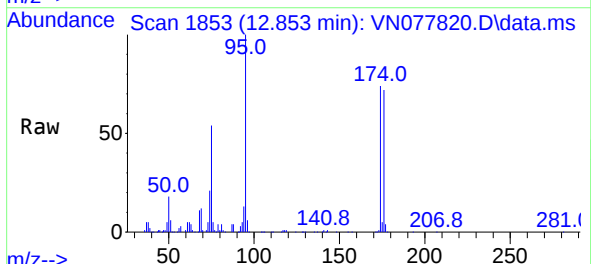
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#02

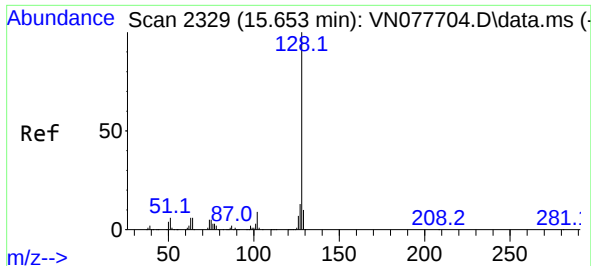
Tgt Ion: 75 Resp: 144189
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 78.929 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

Tgt Ion: 75 Resp: 144189
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#





#95
Naphthalene
Concen: 0.333 ug/l
RT: 15.653 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN077820.D
Acq: 23 May 2023 16:42

Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#02

Tgt Ion:128 Resp: 5300
Ion Ratio Lower Upper
128 100
127 7.5 10.0 15.0#
129 11.5 8.7 13.1

