

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032323\
 Data File : VN077159.D
 Acq On : 23 Mar 2023 19:08
 Operator : JC\MD
 Sample : 02048-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 24 01:36:47 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031723W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 20 08:50:30 2023
 Response via : Initial Calibration

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

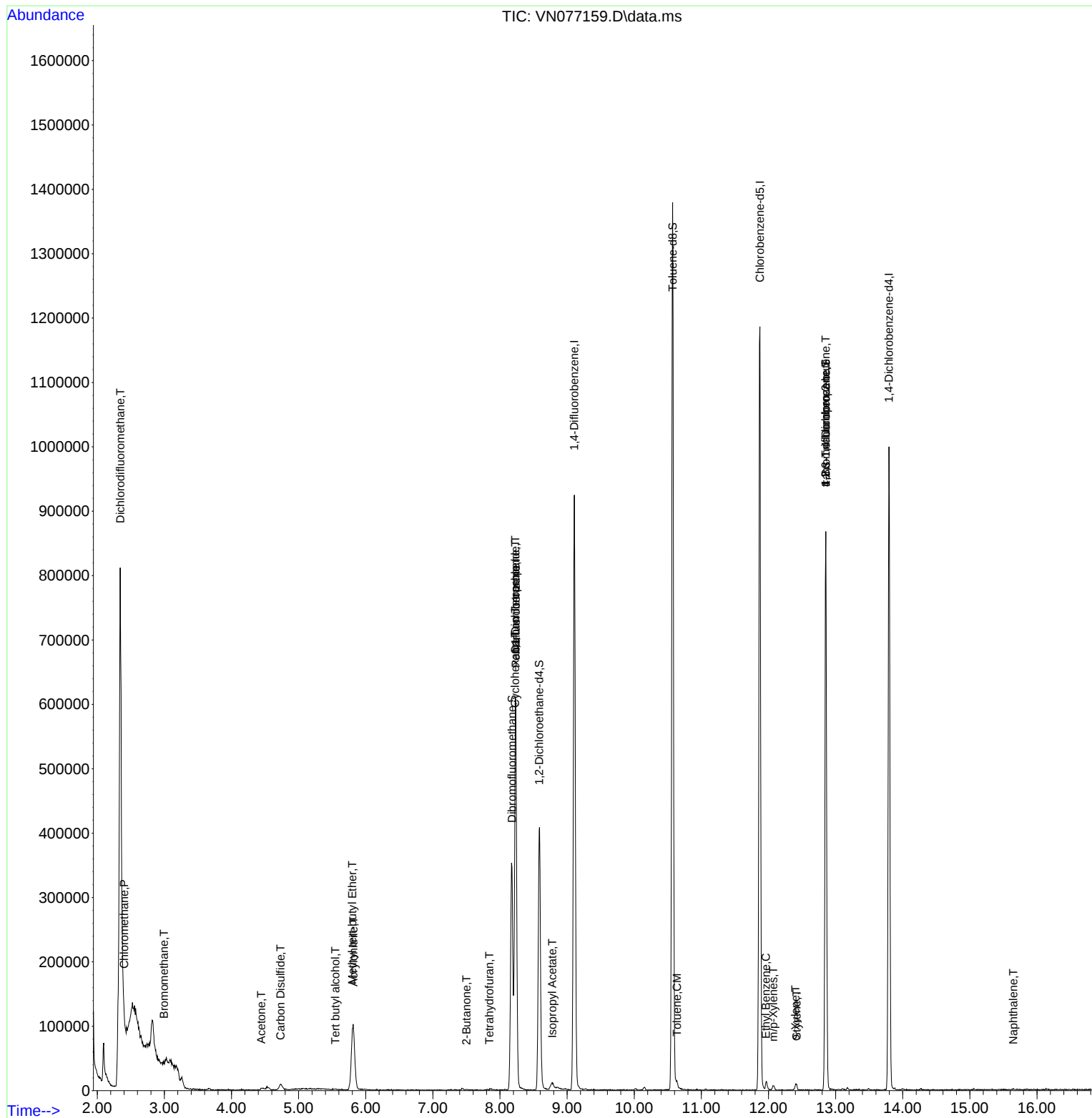
Internal Standards						
1) Pentafluorobenzene	8.236	168	411767	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	738291	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.872	117	649081	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	250549	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	332496	50.552	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.100%			
35) Dibromofluoromethane	8.178	113	245505	47.483	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.960%			
50) Toluene-d8	10.572	98	914968	49.540	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.080%			
62) 4-Bromofluorobenzene	12.854	95	272110	41.694	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 83.380%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.343	85	60041	14.596	ug/l	95
3) Chloromethane	2.402	50	1460	0.352	ug/l #	43
5) Bromomethane	2.996	94	833	0.275	ug/l	81
11) Tert butyl alcohol	5.548	59	1913	1.996	ug/l #	72
15) Acrylonitrile	5.819	53	2622	0.814	ug/l #	31
16) Acetone	4.443	43	7097	2.422	ug/l	94
17) Carbon Disulfide	4.731	76	11922	0.818	ug/l #	93
19) Methyl tert-butyl Ether	5.801	73	150275	8.376	ug/l	96
25) 2-Butanone	7.501	43	1019	0.238	ug/l #	49
29) Tetrahydrofuran	7.842	42	702	0.253	ug/l #	42
31) Cyclohexane	8.225	56	12481	1.160	ug/l #	24
36) 1,1-Dichloropropene	8.231	75	38654	4.787	ug/l #	50
38) Carbon Tetrachloride	8.231	117	45215	5.748	ug/l #	16
43) Isopropyl Acetate	8.778	43	7407	0.549	ug/l #	64
52) Toluene	10.636	92	3828	0.262	ug/l	99
67) Ethyl Benzene	11.960	91	8307	0.306	ug/l #	76
68) m/p-Xylenes	12.072	106	2524	0.251	ug/l	94
69) o-Xylene	12.401	106	2031	0.203	ug/l	66
70) Styrene	12.419	104	3578	0.230	ug/l	94
76) 1,2,3-Trichloropropane	12.854	75	157526	24.307	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	157526	66.905	ug/l #	10
95) Naphthalene	15.648	128	1188	1.981	ug/l #	70

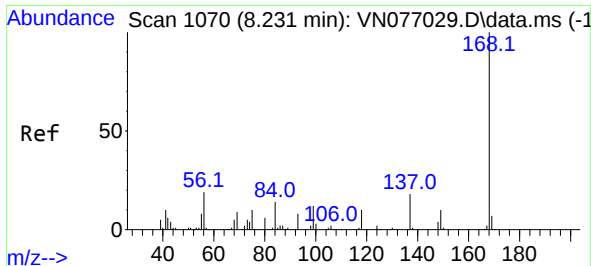
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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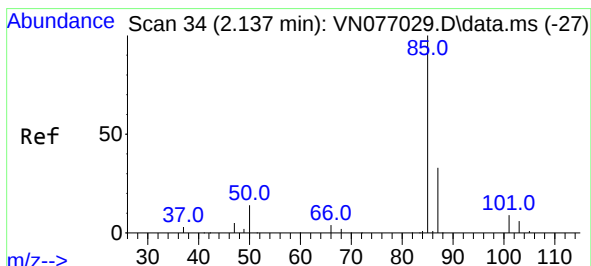
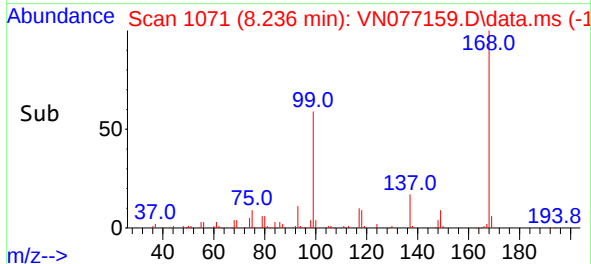
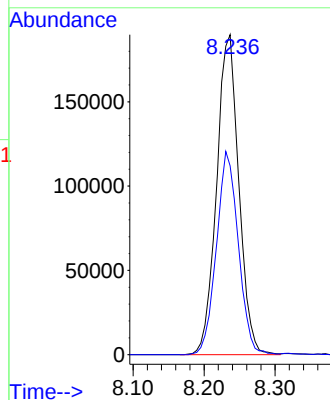
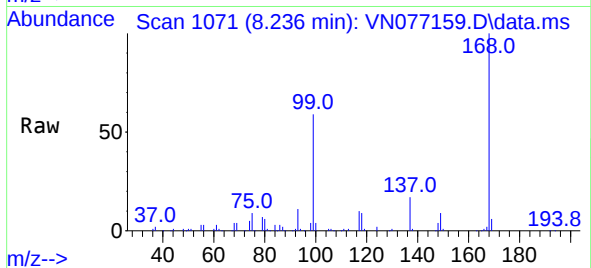




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

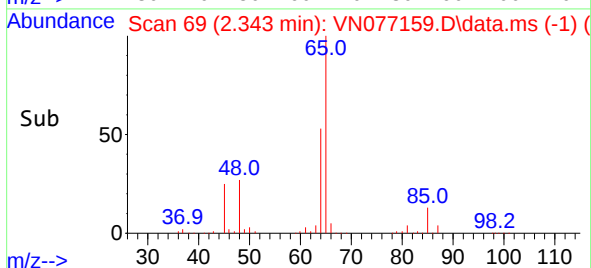
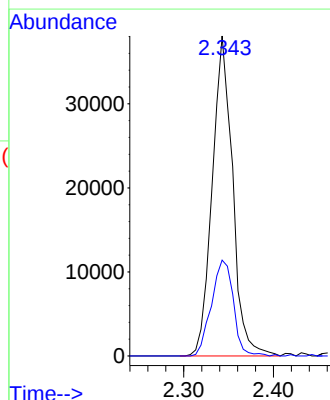
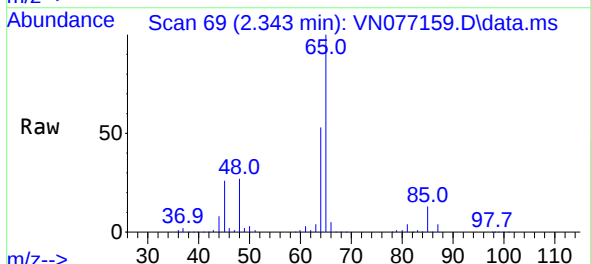
Instrument :
MSVOA_N
ClientSampleId :

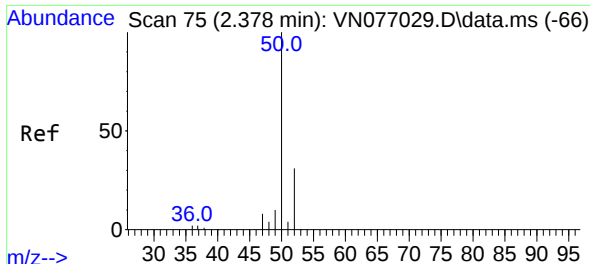
Tgt Ion:168 Resp: 411767
Ion Ratio Lower Upper
168 100
99 59.0 53.9 80.9



#2
Dichlorodifluoromethane
Concen: 14.596 ug/l
RT: 2.343 min Scan# 69
Delta R.T. 0.206 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

Tgt Ion: 85 Resp: 60041
Ion Ratio Lower Upper
85 100
87 30.0 16.4 49.2

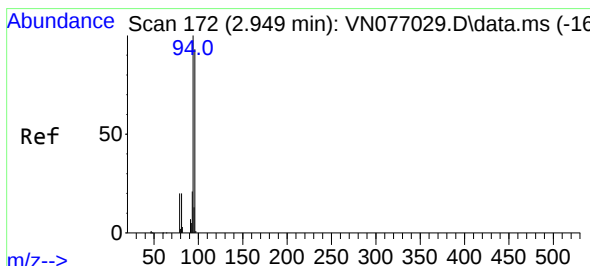
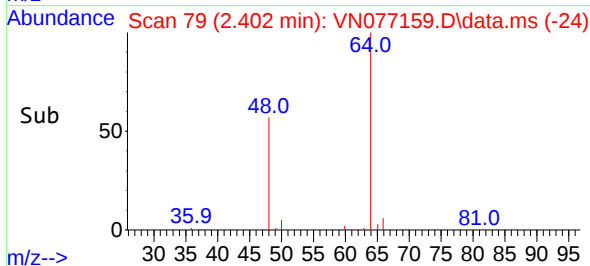
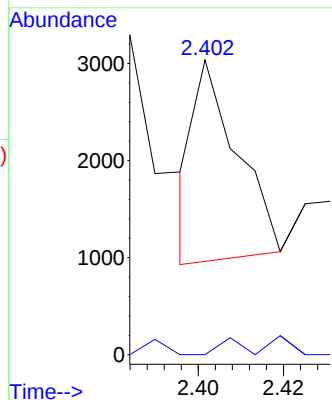
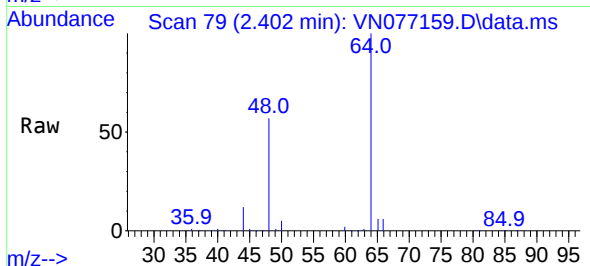




#3
Chloromethane
Concen: 0.352 ug/l
RT: 2.402 min Scan# 75
Delta R.T. 0.024 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

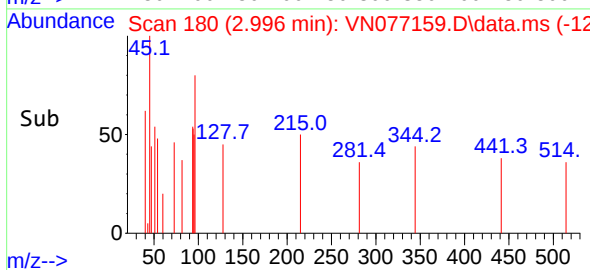
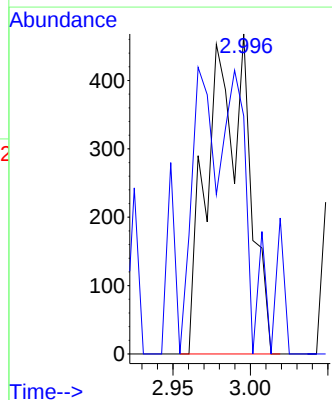
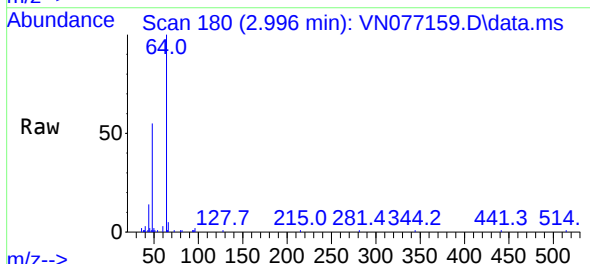
Instrument :
MSVOA_N
ClientSampleId :

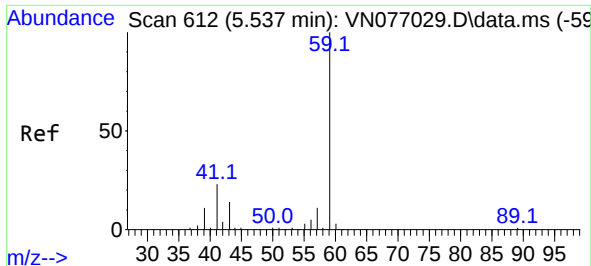
Tgt Ion: 50 Resp: 1460
Ion Ratio Lower Upper
50 100
52 0.0 25.1 37.7#



#5
Bromomethane
Concen: 0.275 ug/l
RT: 2.996 min Scan# 180
Delta R.T. 0.047 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

Tgt Ion: 94 Resp: 833
Ion Ratio Lower Upper
94 100
96 74.4 74.1 111.1

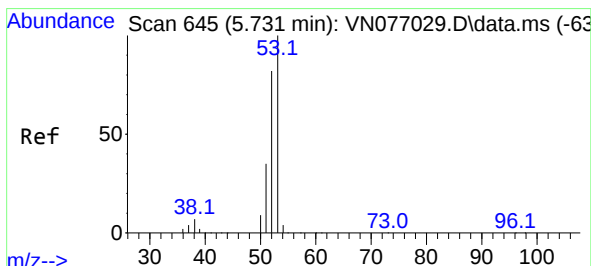
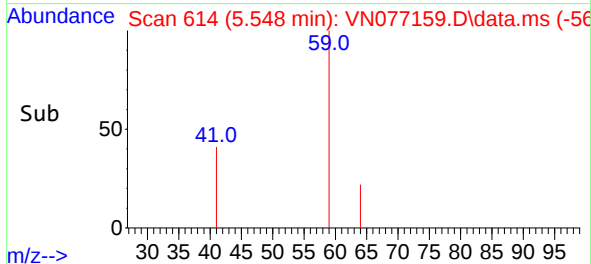
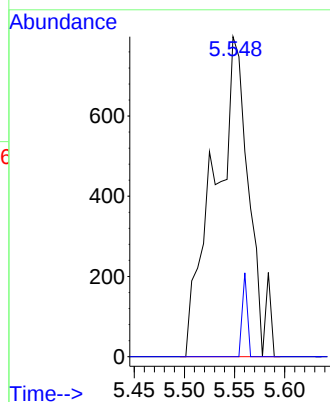
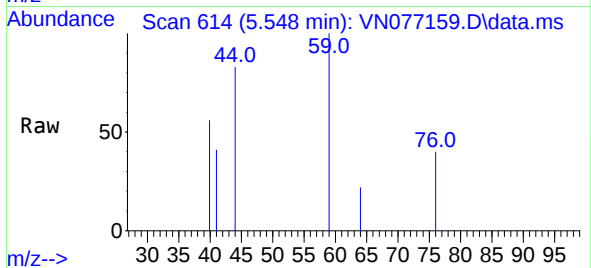




#11
Tert butyl alcohol
Concen: 1.996 ug/l
RT: 5.548 min Scan# 611
Delta R.T. 0.011 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

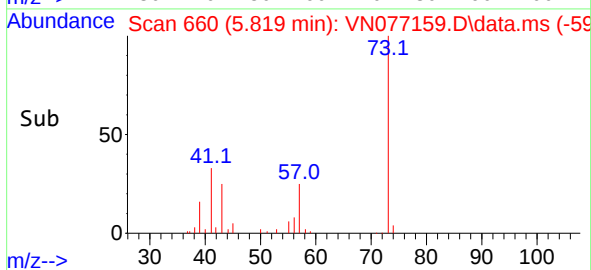
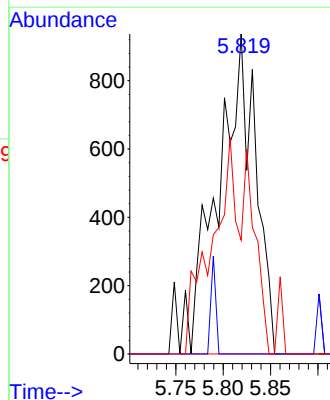
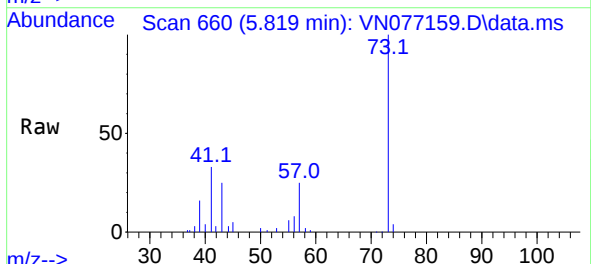
Instrument :
MSVOA_N
ClientSampleId :

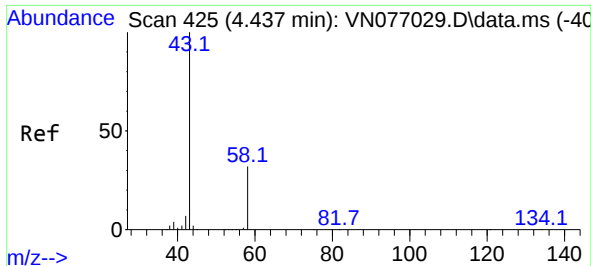
Tgt Ion: 59 Resp: 1913
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#15
Acrylonitrile
Concen: 0.814 ug/l
RT: 5.819 min Scan# 660
Delta R.T. 0.088 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

Tgt Ion: 53 Resp: 2622
Ion Ratio Lower Upper
53 100
52 0.0 64.6 97.0#
51 46.7 28.3 42.5#

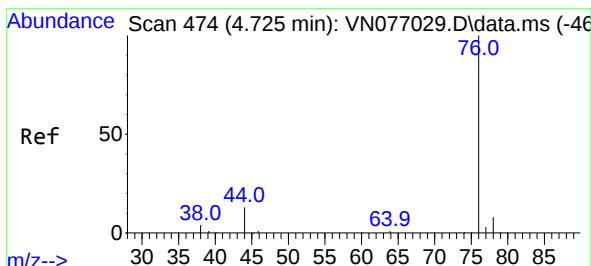
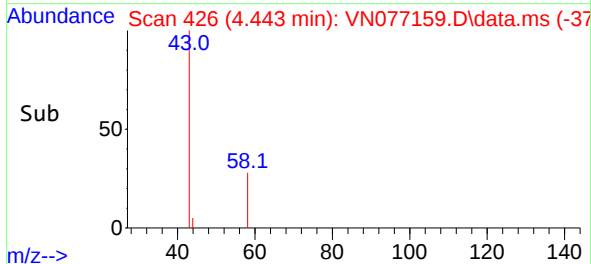
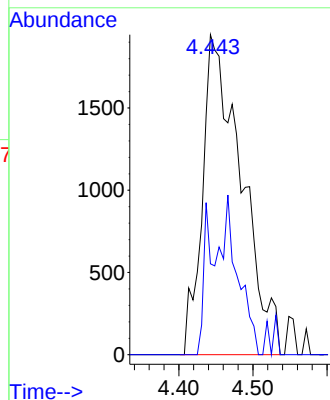
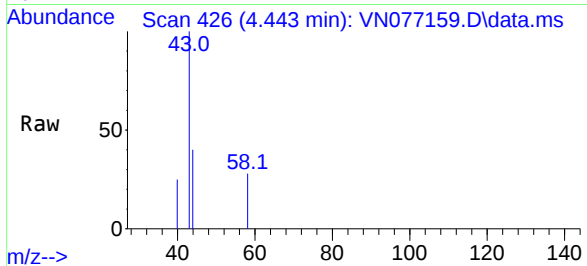




#16
Acetone
Concen: 2.422 ug/l
RT: 4.443 min Scan# 431
Delta R.T. 0.006 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

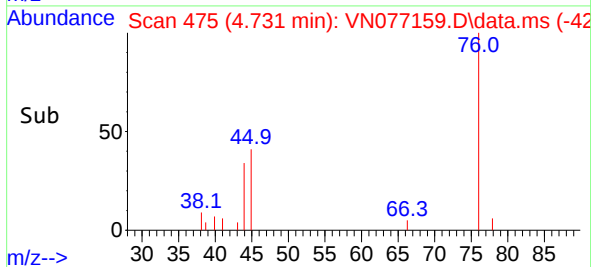
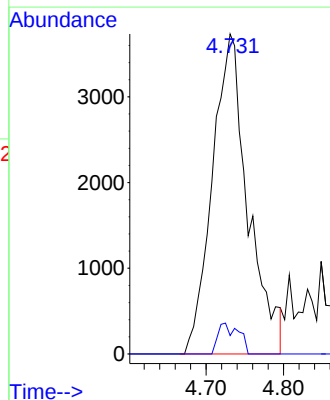
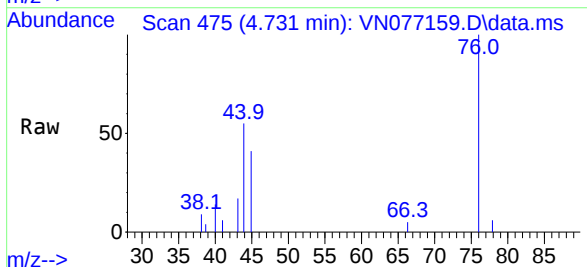
Instrument :
MSVOA_N
ClientSampleId :

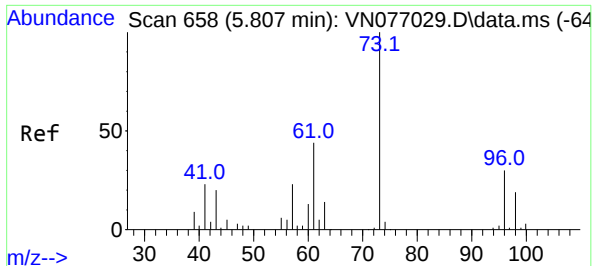
Tgt Ion: 43 Resp: 7097
Ion Ratio Lower Upper
43 100
58 28.4 25.4 38.0



#17
Carbon Disulfide
Concen: 0.818 ug/l
RT: 4.731 min Scan# 475
Delta R.T. 0.006 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

Tgt Ion: 76 Resp: 11922
Ion Ratio Lower Upper
76 100
78 5.8 6.6 10.0#





#19

Methyl tert-butyl Ether

Concen: 8.376 ug/l

RT: 5.801 min Scan# 61

Delta R.T. -0.006 min

Lab File: VN077159.D

Acq: 23 Mar 2023 19:08

Instrument :

MSVOA_N

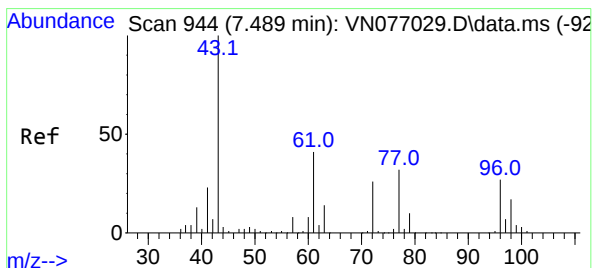
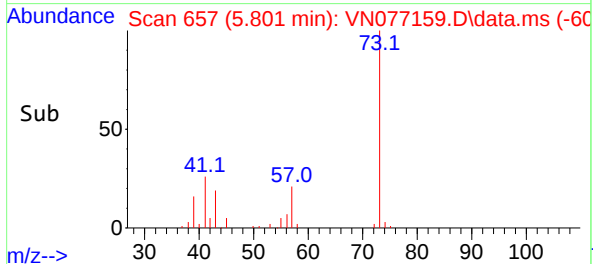
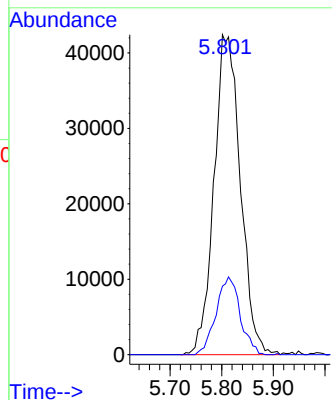
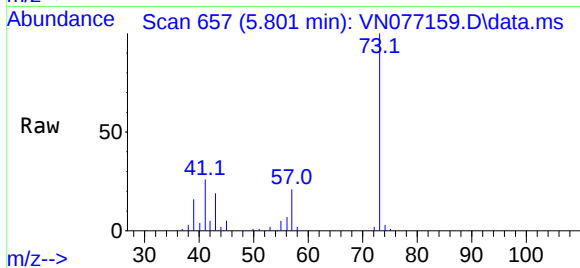
ClientSampleId :

Tgt Ion: 73 Resp: 150275

Ion Ratio Lower Upper

73 100

57 21.4 18.7 28.1



#25

2-Butanone

Concen: 0.238 ug/l

RT: 7.501 min Scan# 946

Delta R.T. 0.012 min

Lab File: VN077159.D

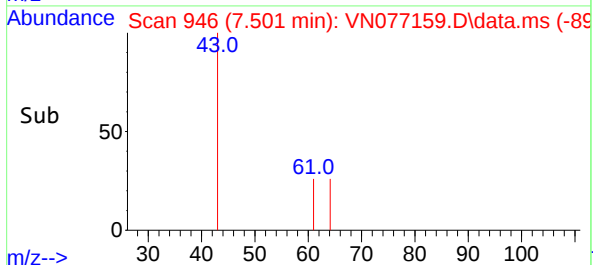
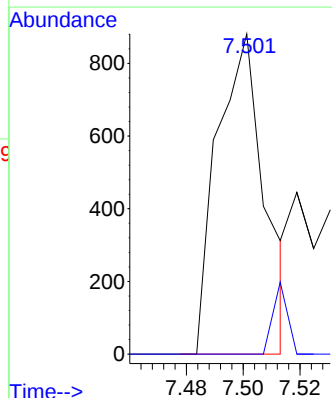
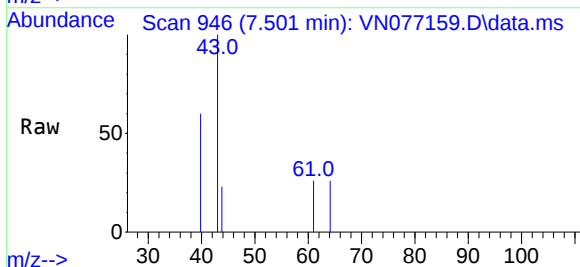
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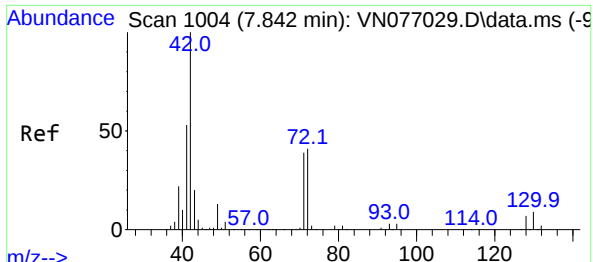
Tgt Ion: 43 Resp: 1019

Ion Ratio Lower Upper

43 100

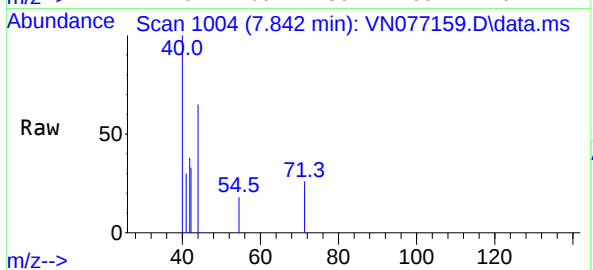
72 0.0 20.7 31.1#





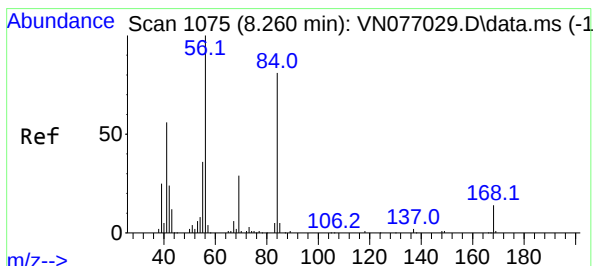
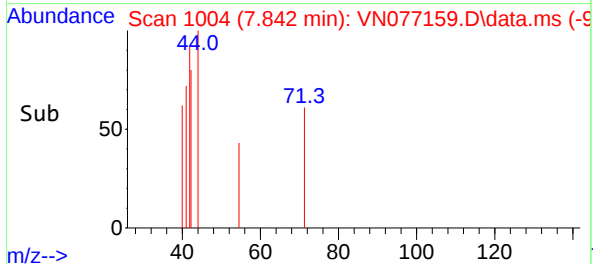
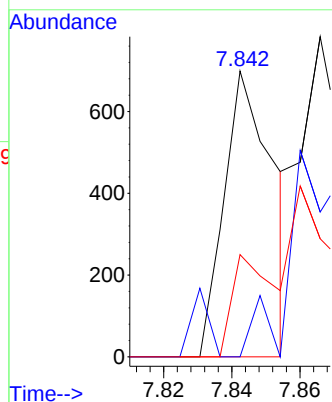
#29
Tetrahydrofuran
Concen: 0.253 ug/l
RT: 7.842 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 42 Resp: 702

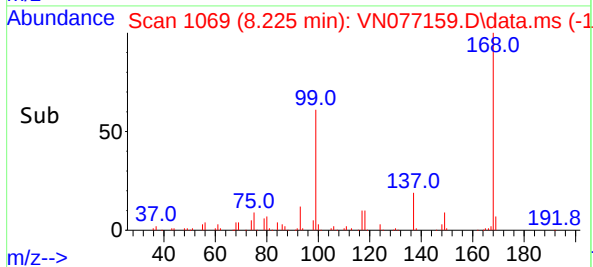
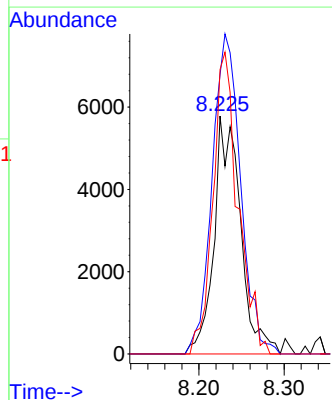
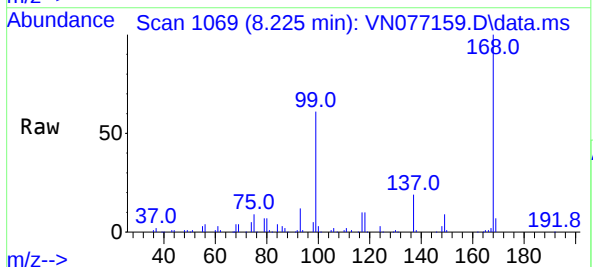
Ion	Ratio	Lower	Upper
42	100		
72	8.4	33.2	49.8#
71	0.0	31.0	46.4#

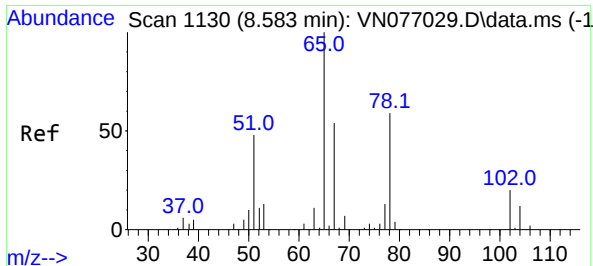


#31
Cyclohexane
Concen: 1.160 ug/l
RT: 8.225 min Scan# 1069
Delta R.T. -0.035 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

Tgt Ion: 56 Resp: 12481

Ion	Ratio	Lower	Upper
56	100		
69	117.3	22.8	34.2#
84	119.5	64.7	97.1#

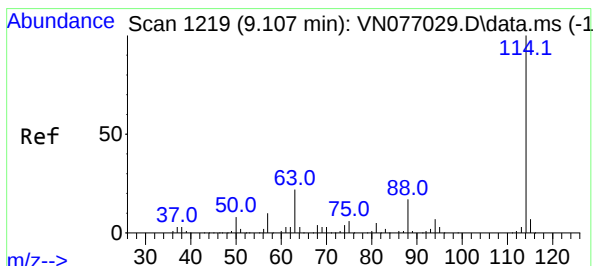
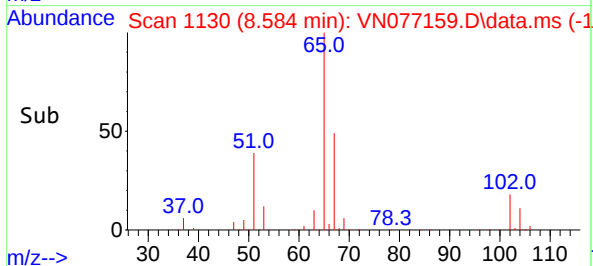
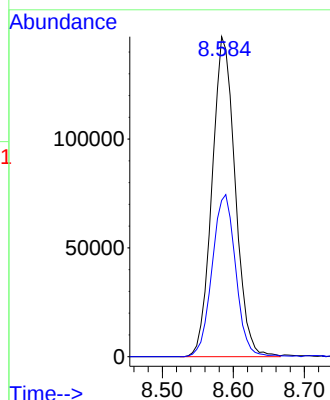
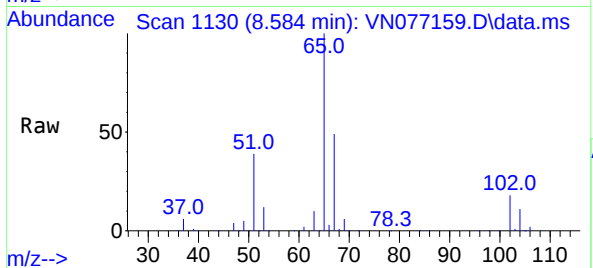




#33
1,2-Dichloroethane-d4
Concen: 50.552 ug/l
RT: 8.584 min Scan# 1130
Delta R.T. 0.001 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

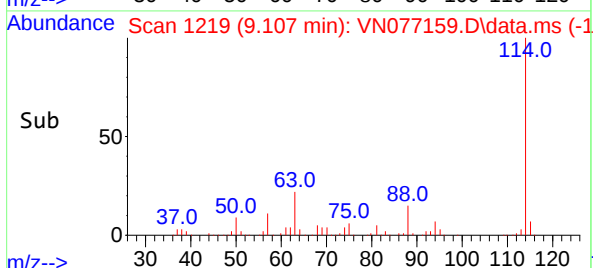
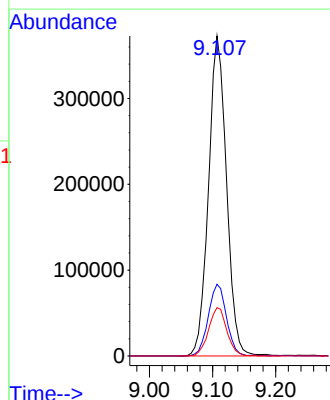
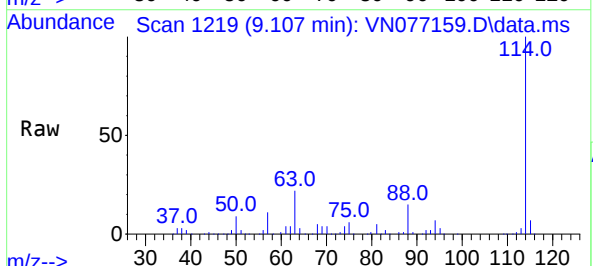
Instrument :
MSVOA_N
ClientSampleId :

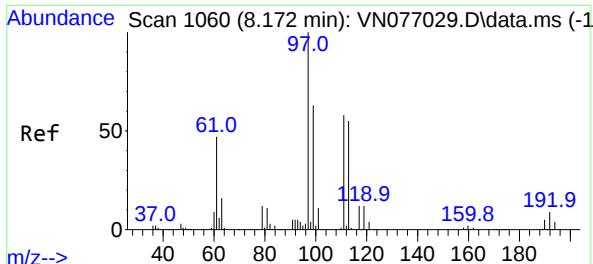
Tgt Ion: 65 Resp: 332496
Ion Ratio Lower Upper
65 100
67 51.6 0.0 105.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 1219
Delta R.T. 0.000 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

Tgt Ion: 114 Resp: 738291
Ion Ratio Lower Upper
114 100
63 22.4 0.0 44.6
88 15.1 0.0 33.8

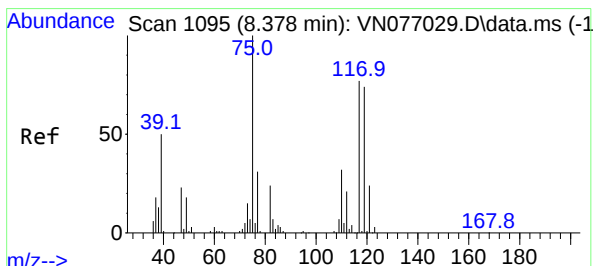
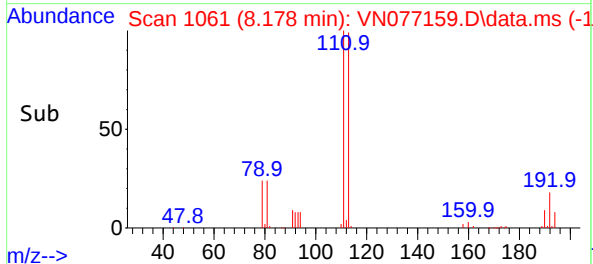
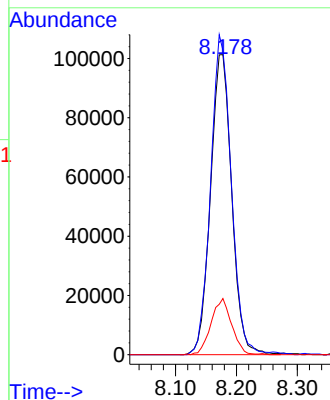
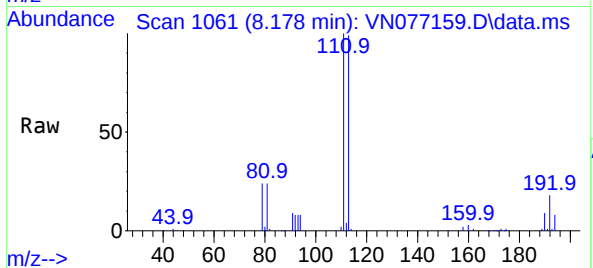




#35
Dibromofluoromethane
Concen: 47.483 ug/l
RT: 8.178 min Scan# 1060
Delta R.T. 0.006 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

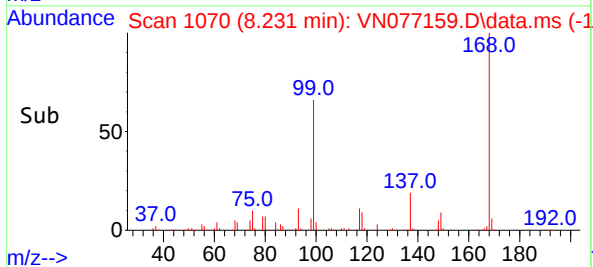
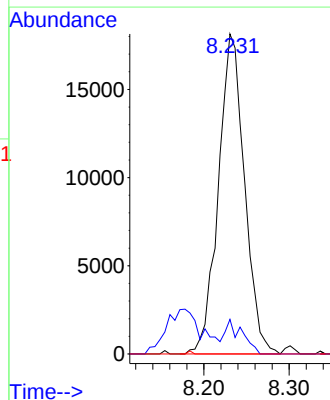
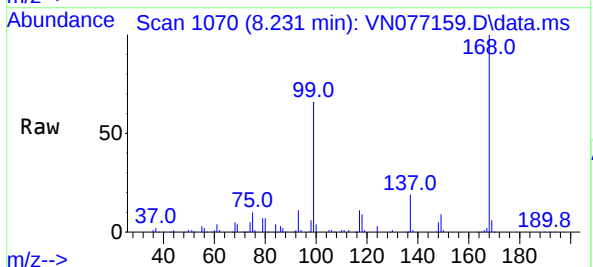
Instrument :
MSVOA_N
ClientSampleId :

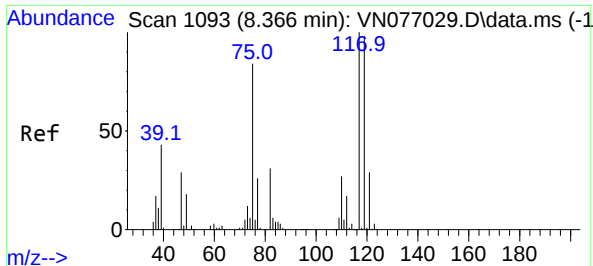
Tgt Ion:113 Resp: 245505
Ion Ratio Lower Upper
113 100
111 103.7 82.2 123.2
192 18.1 13.0 19.6



#36
1,1-Dichloropropene
Concen: 4.787 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.147 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

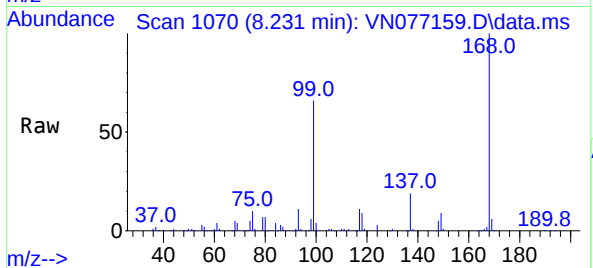
Tgt Ion: 75 Resp: 38654
Ion Ratio Lower Upper
75 100
110 7.0 15.9 47.7#
77 0.0 24.3 36.5#



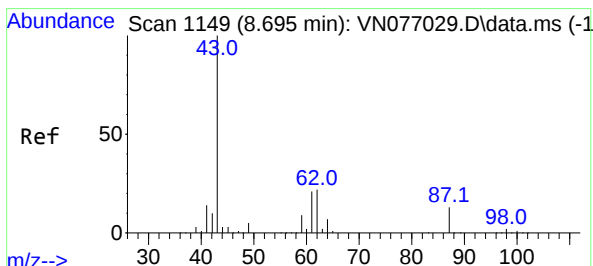
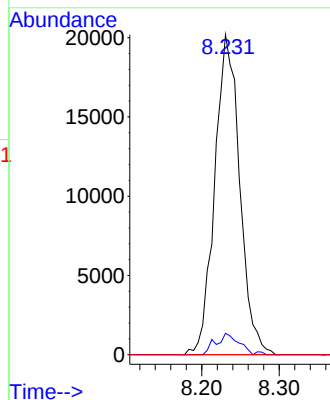
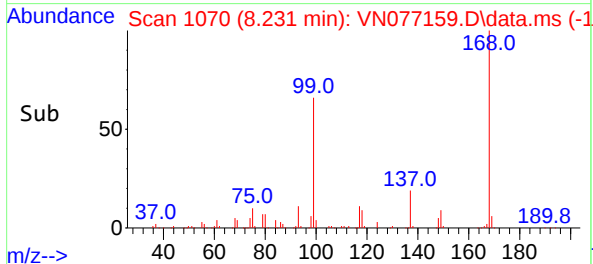


#38
Carbon Tetrachloride
Concen: 5.748 ug/l
RT: 8.231 min Scan# 1163
Delta R.T. -0.135 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

Instrument :
MSVOA_N
ClientSampleId :

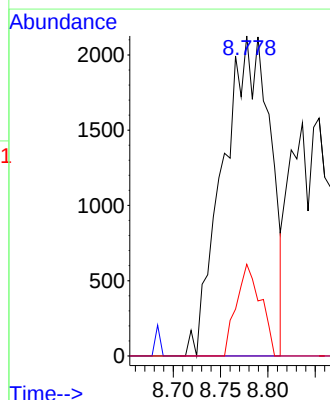
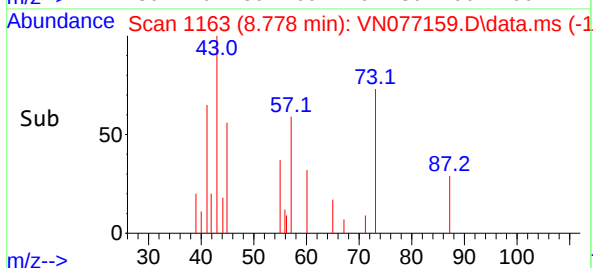
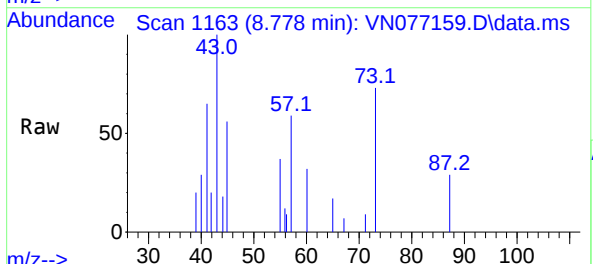


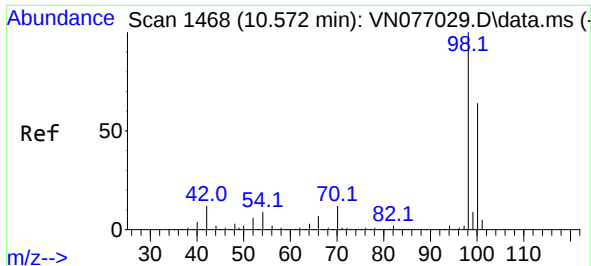
Tgt Ion:117 Resp: 45215
Ion Ratio Lower Upper
117 100
119 6.7 78.2 117.2#
121 0.0 23.2 34.8#



#43
Isopropyl Acetate
Concen: 0.549 ug/l
RT: 8.778 min Scan# 1163
Delta R.T. 0.082 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

Tgt Ion: 43 Resp: 7407
Ion Ratio Lower Upper
43 100
61 0.0 20.6 30.8#
87 14.6 10.0 15.0

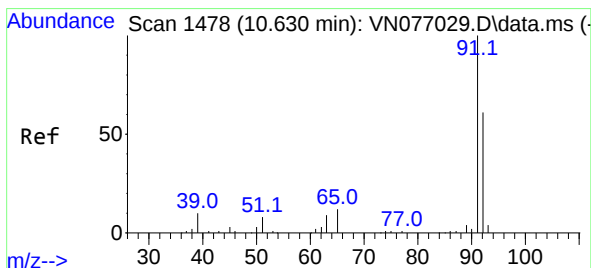
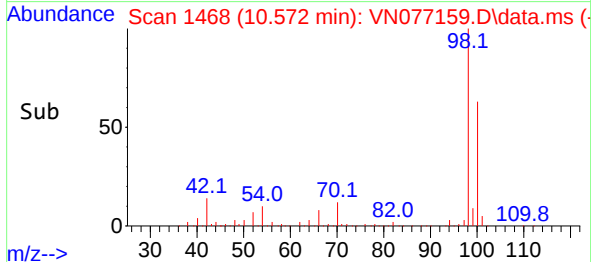
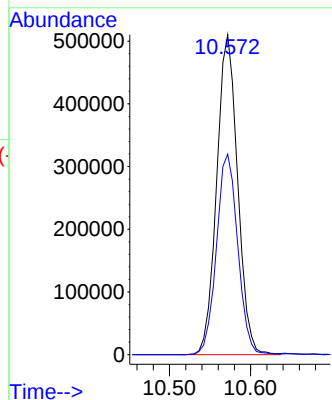
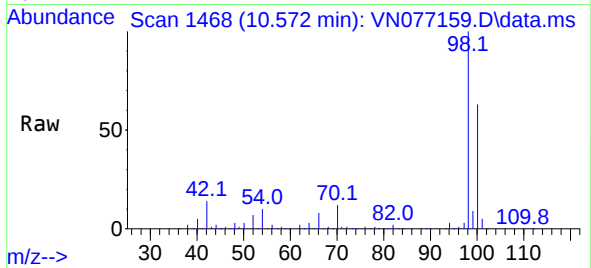




#50
Toluene-d8
Concen: 49.540 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

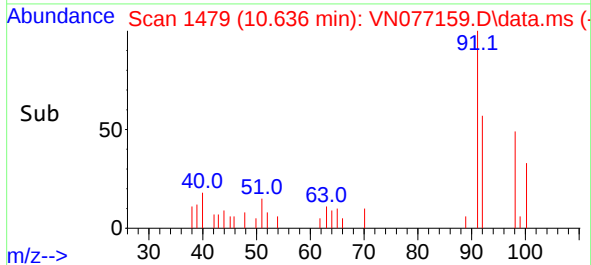
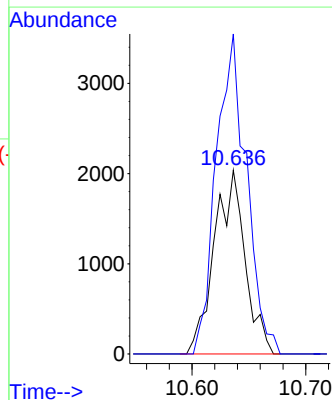
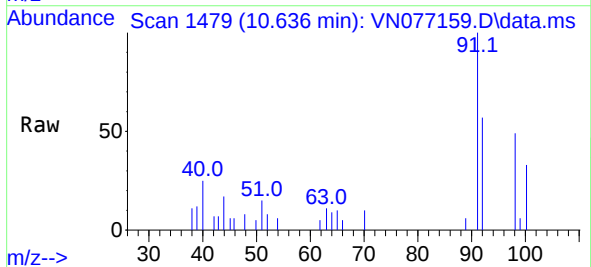
Instrument :
MSVOA_N
ClientSampleId :

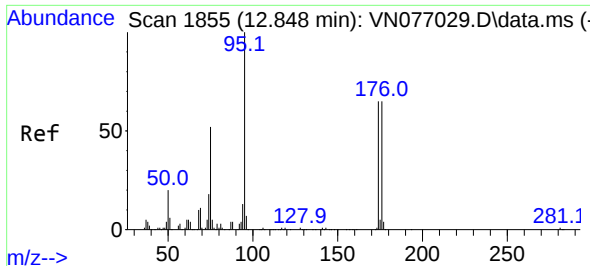
Tgt Ion: 98 Resp: 914968
Ion Ratio Lower Upper
98 100
100 63.6 51.6 77.4



#52
Toluene
Concen: 0.262 ug/l
RT: 10.636 min Scan# 1479
Delta R.T. 0.006 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

Tgt Ion: 92 Resp: 3828
Ion Ratio Lower Upper
92 100
91 171.5 135.8 203.8

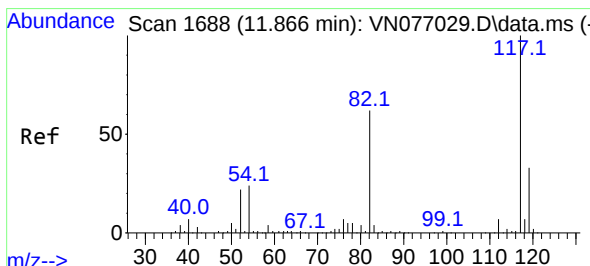
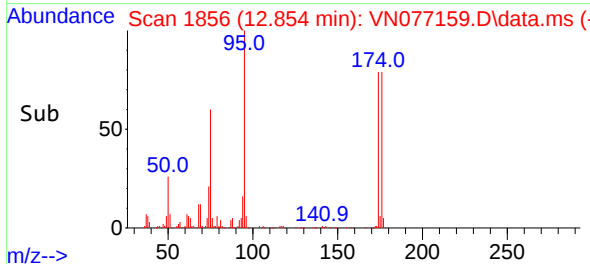
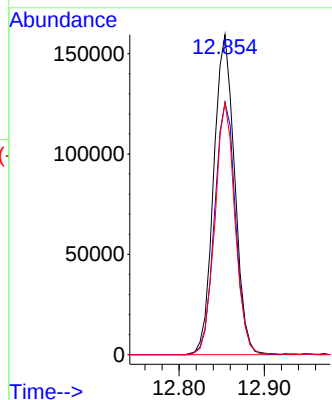
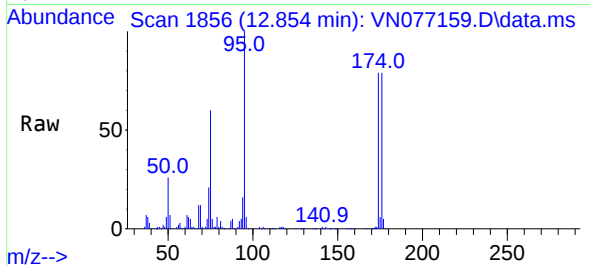




#62
4-Bromofluorobenzene
Concen: 41.694 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

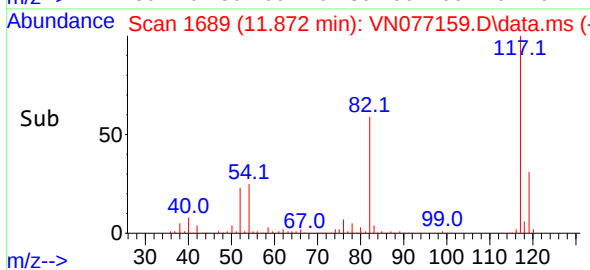
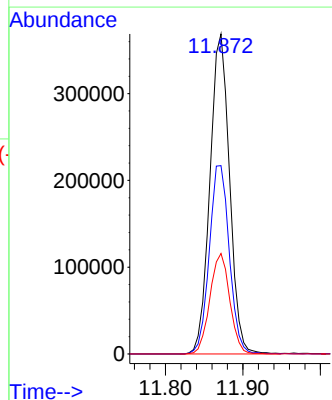
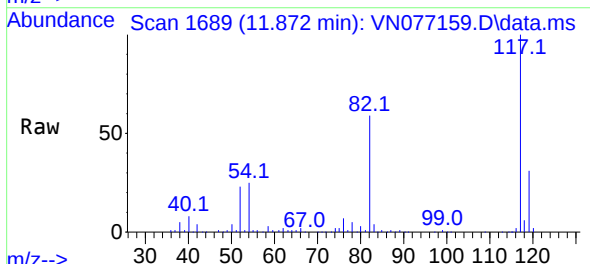
Instrument :
MSVOA_N
ClientSampleId :

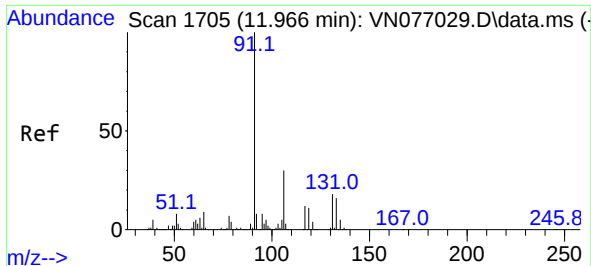
Tgt Ion: 95 Resp: 272110
Ion Ratio Lower Upper
95 100
174 79.2 0.0 136.6
176 75.8 0.0 130.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.872 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

Tgt Ion: 117 Resp: 649081
Ion Ratio Lower Upper
117 100
82 58.9 49.4 74.0
119 31.4 26.5 39.7

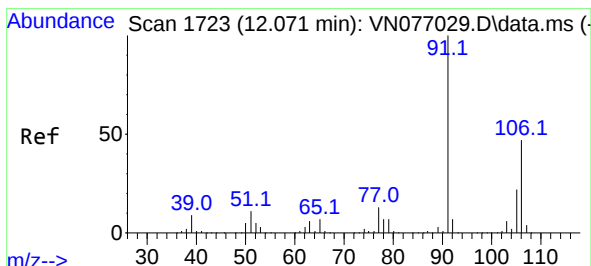
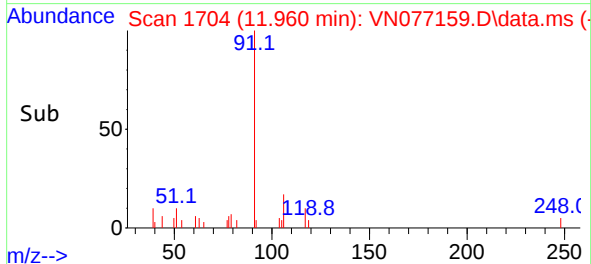
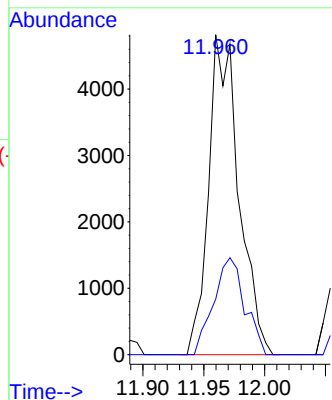
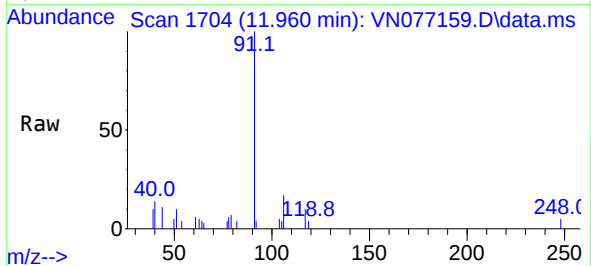




#67
Ethyl Benzene
Concen: 0.306 ug/l
RT: 11.960 min Scan# 1705
Delta R.T. -0.006 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

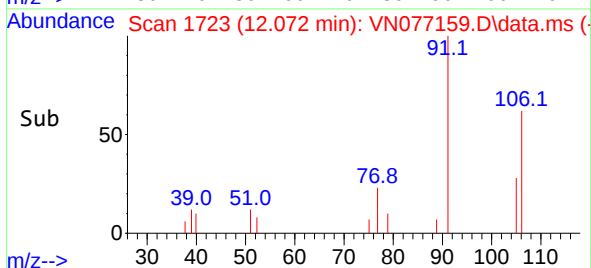
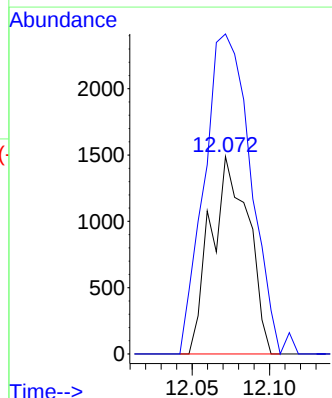
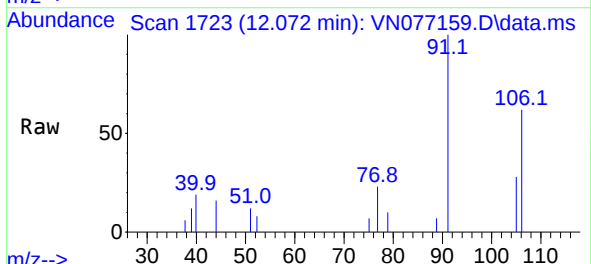
Instrument :
MSVOA_N
ClientSampleId :

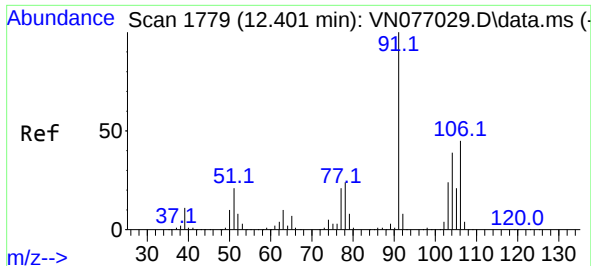
Tgt Ion: 91 Resp: 8307
Ion Ratio Lower Upper
91 100
106 17.3 24.3 36.5#



#68
m/p-Xylenes
Concen: 0.251 ug/l
RT: 12.072 min Scan# 1723
Delta R.T. 0.000 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

Tgt Ion: 106 Resp: 2524
Ion Ratio Lower Upper
106 100
91 200.2 168.0 252.0

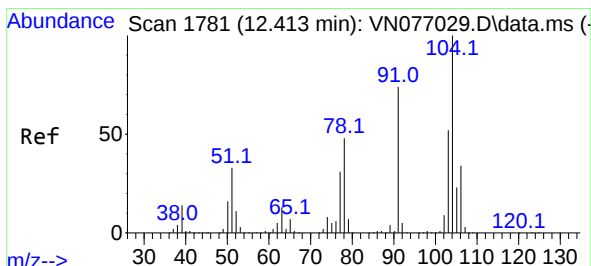
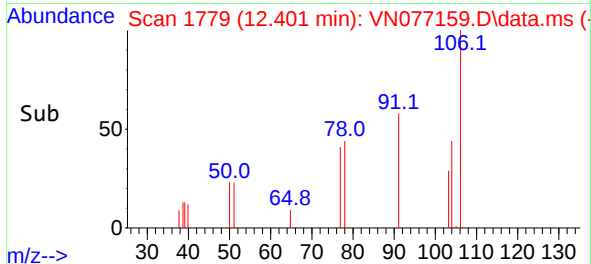
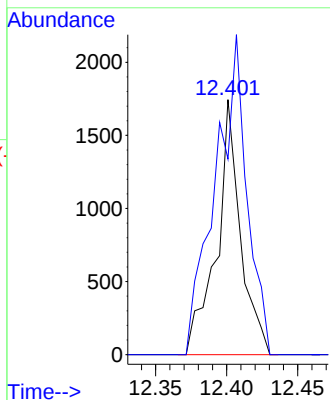
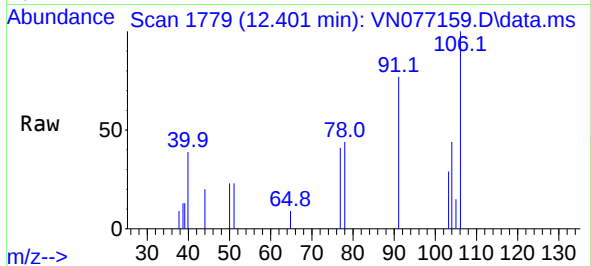




#69
o-Xylene
Concen: 0.203 ug/l
RT: 12.401 min Scan# 1779
Delta R.T. 0.000 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

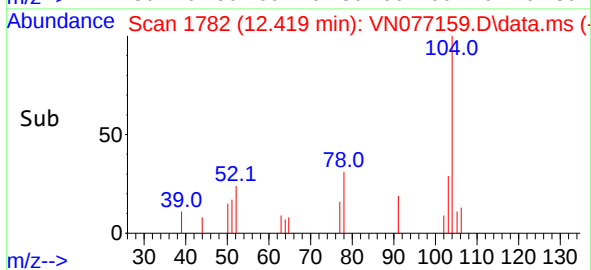
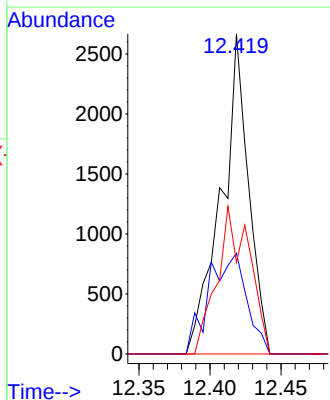
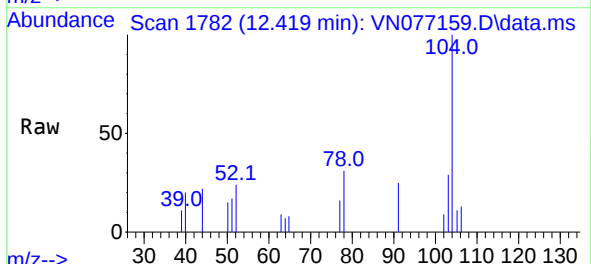
Instrument :
MSVOA_N
ClientSampleId :

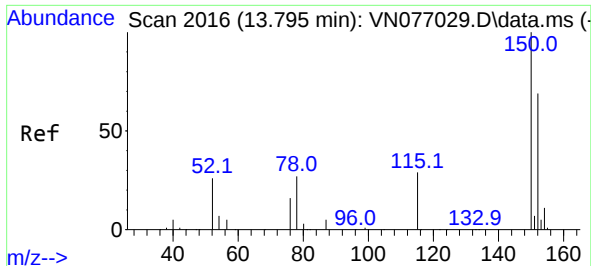
Tgt Ion:106 Resp: 2031
Ion Ratio Lower Upper
106 100
91 166.6 110.3 330.9



#70
Styrene
Concen: 0.230 ug/l
RT: 12.419 min Scan# 1782
Delta R.T. 0.006 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

Tgt Ion:104 Resp: 3578
Ion Ratio Lower Upper
104 100
78 43.5 41.8 62.8
103 54.3 43.8 65.6

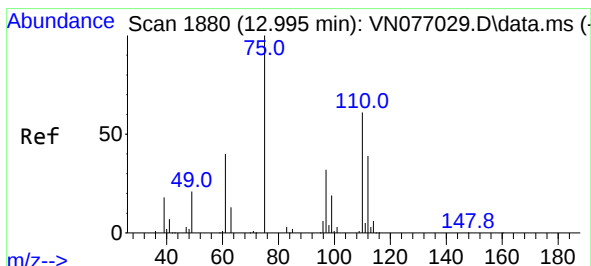
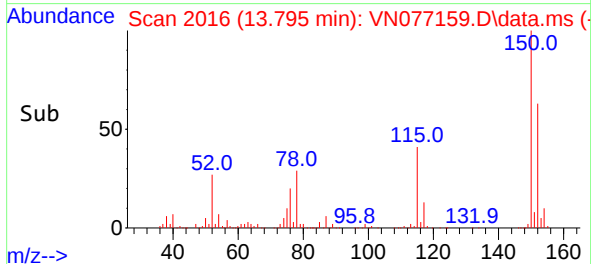
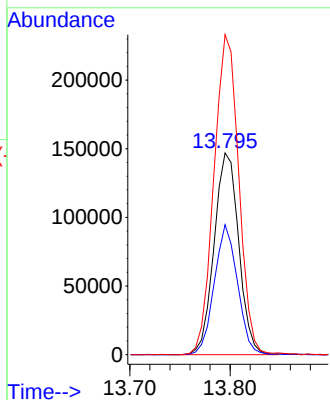
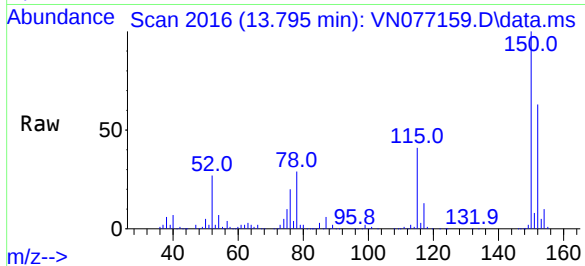




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

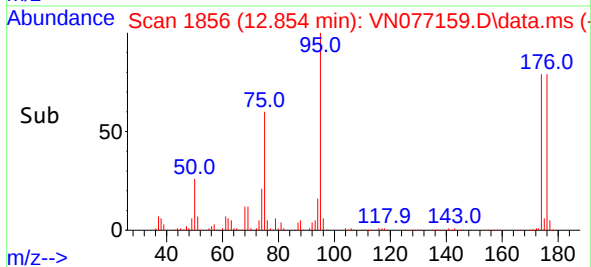
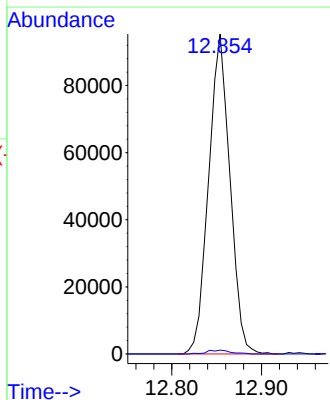
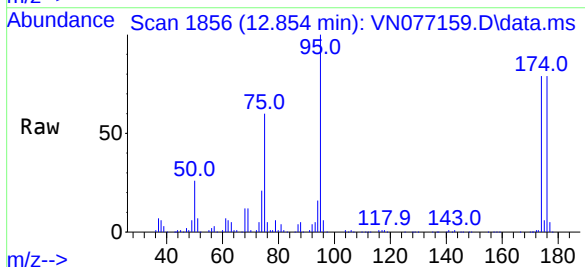
Instrument :
MSVOA_N
ClientSampleId :

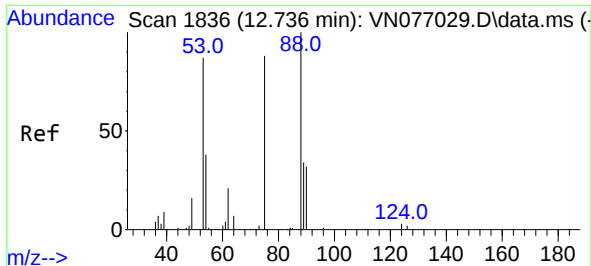
Tgt Ion:152 Resp: 250549
Ion Ratio Lower Upper
152 100
115 60.8 31.9 95.7
150 160.2 0.0 348.0



#76
1,2,3-Trichloropropane
Concen: 24.307 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

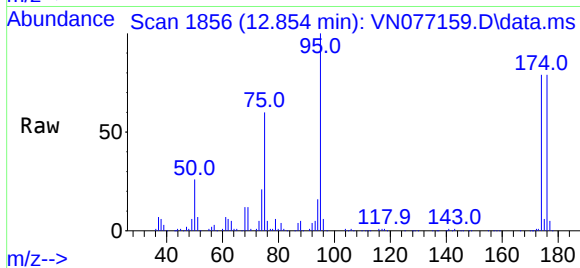
Tgt Ion: 75 Resp: 157526
Ion Ratio Lower Upper
75 100
77 1.3 107.3 322.0#



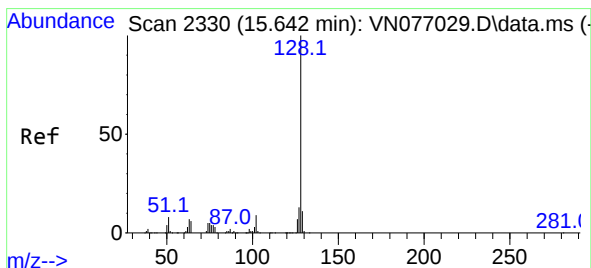
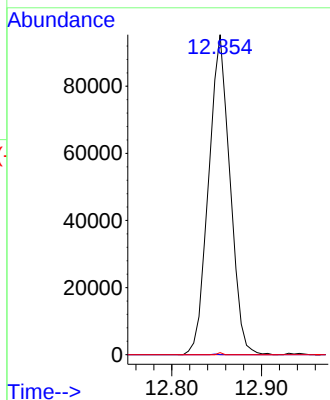
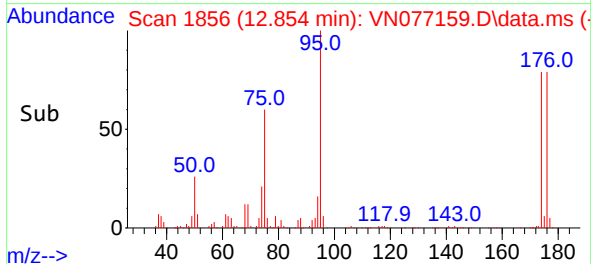


#81
trans-1,4-Dichloro-2-butene
Concen: 66.905 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08

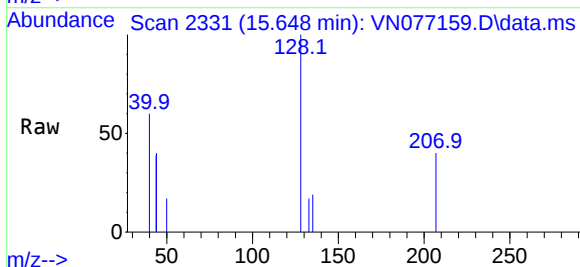
Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 157526
Ion Ratio Lower Upper
75 100
53 0.0 80.8 121.2#
89 0.1 34.2 51.4#



#95
Naphthalene
Concen: 1.981 ug/l
RT: 15.648 min Scan# 2331
Delta R.T. 0.006 min
Lab File: VN077159.D
Acq: 23 Mar 2023 19:08



Tgt Ion: 128 Resp: 1188
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.6 13.0#

