

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032823\
 Data File : VN077241.D
 Acq On : 28 Mar 2023 16:54
 Operator : JC\MD
 Sample : 02107-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC01

Quant Time: Mar 29 01:17:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N032523W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 27 02:47:06 2023
 Response via : Initial Calibration

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

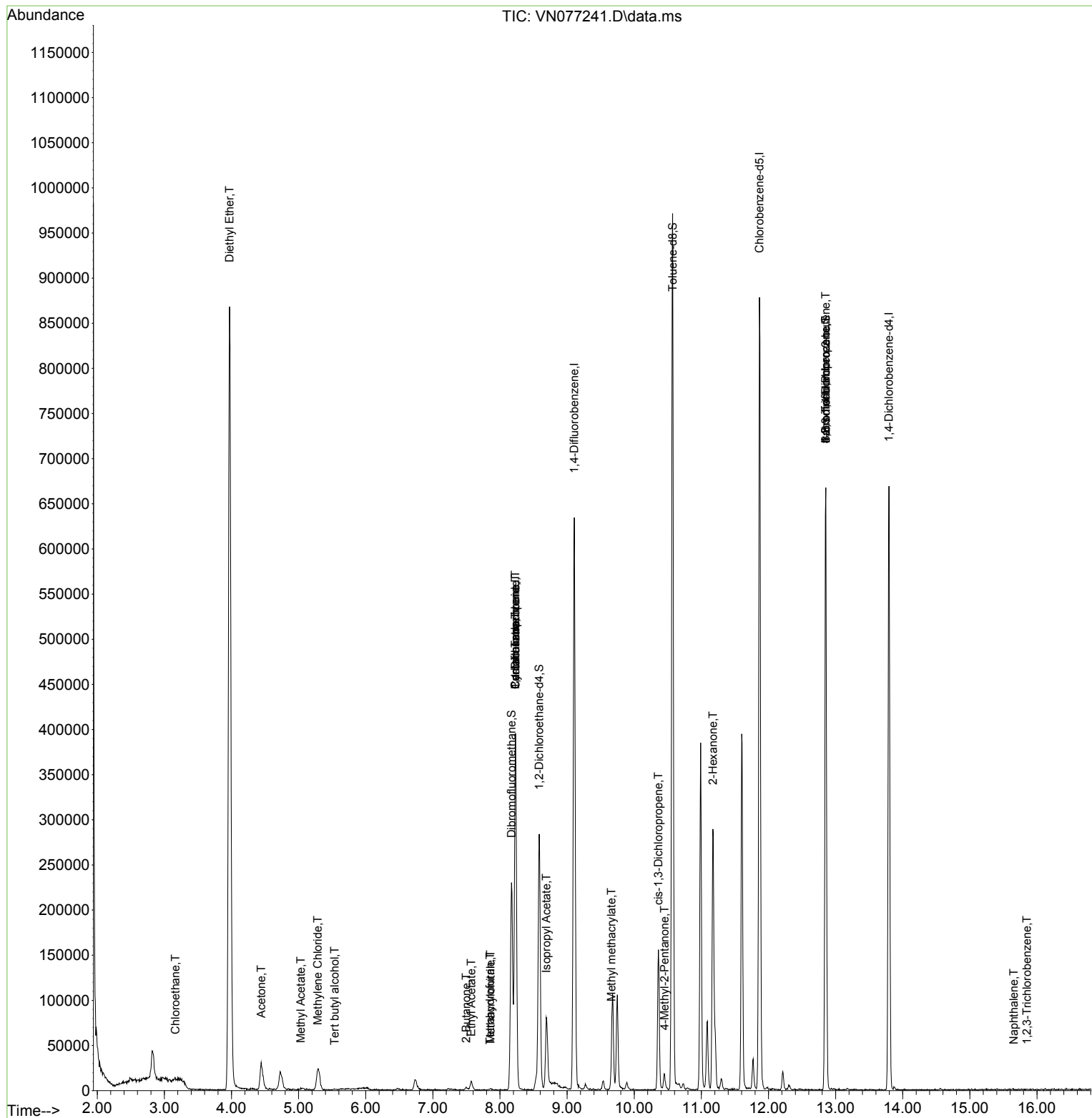
Internal Standards						
1) Pentafluorobenzene	8.231	168	264881	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	498647	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	457959	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	163273	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	222908	53.823	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 107.640%		
35) Dibromofluoromethane	8.172	113	153431	45.346	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 90.700%		
50) Toluene-d8	10.572	98	634243	50.026	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 100.060%		
62) 4-Bromofluorobenzene	12.854	95	202026	48.553	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 97.100%		
Target Compounds						
						Qvalue
6) Chloroethane	3.166	64	1054	0.278	ug/l #	42
8) Diethyl Ether	3.972	74	494315	223.694	ug/l	61
11) Tert butyl alcohol	5.537	59	326	0.578	ug/l #	72
16) Acetone	4.443	43	56801	36.886	ug/l #	83
18) Methyl Acetate	5.031	43	2141	0.348	ug/l #	42
20) Methylene Chloride	5.284	84	18552	5.410	ug/l #	75
25) 2-Butanone	7.495	43	5317	2.208	ug/l #	78
29) Tetrahydrofuran	7.854	42	667	0.418	ug/l #	55
31) Cyclohexane	8.231	56	7627	1.326	ug/l #	57
36) 1,1-Dichloropropene	8.231	75	24704	5.246	ug/l #	48
37) Ethyl Acetate	7.572	43	13909	2.650	ug/l #	91
38) Carbon Tetrachloride	8.231	117	30533	6.395	ug/l #	15
41) Methacrylonitrile	7.860	41	584	0.204	ug/l #	29
43) Isopropyl Acetate	8.689	43	101347	11.968	ug/l #	74
48) Methyl methacrylate	9.660	41	5651	1.386	ug/l #	22
51) 4-Methyl-2-Pentanone	10.454	43	12587	2.362	ug/l #	79
54) cis-1,3-Dichloropropene	10.360	75	25105	4.531	ug/l #	49
59) 2-Hexanone	11.172	43	248099	64.791	ug/l #	17
71) Bromoform	12.854	173	2581	1.034	ug/l #	1
76) 1,2,3-Trichloropropane	12.854	75	118918	35.904	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	118918	103.480	ug/l #	15
95) Naphthalene	15.654	128	597	5.976	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.848	180	62	4.670	ug/l #	36

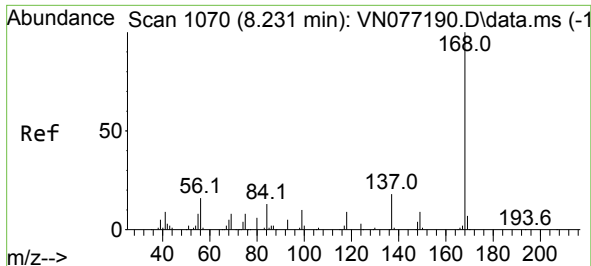
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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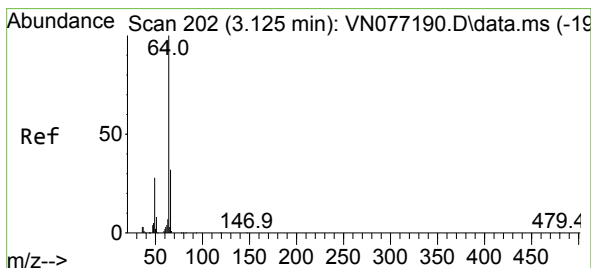
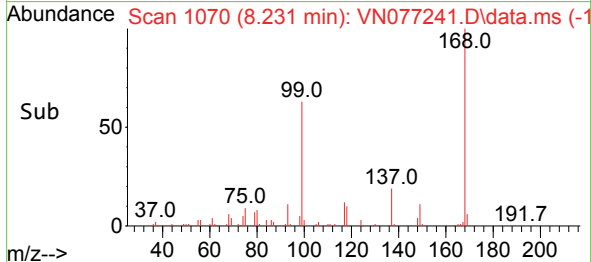
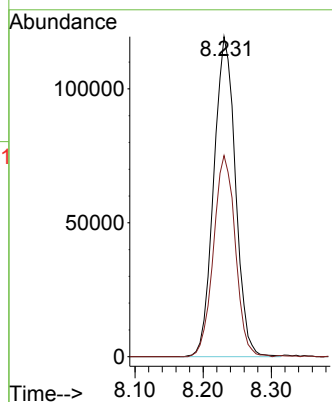
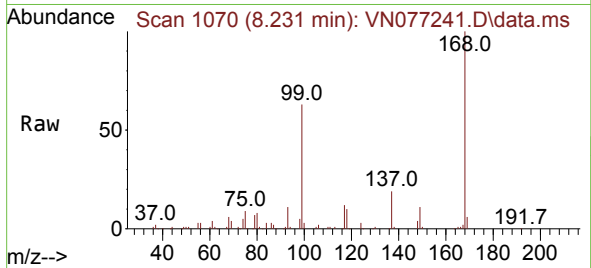




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

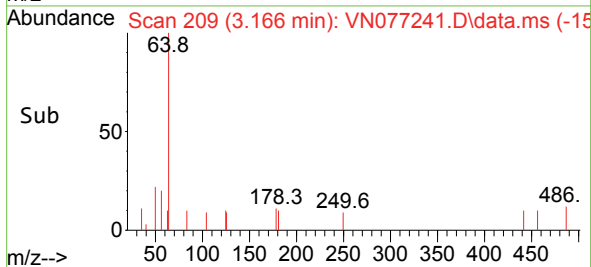
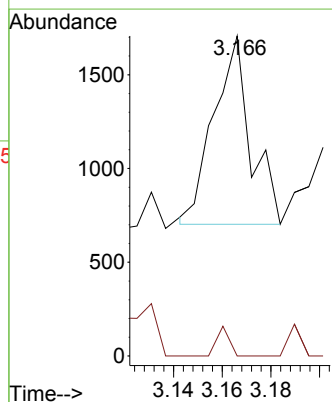
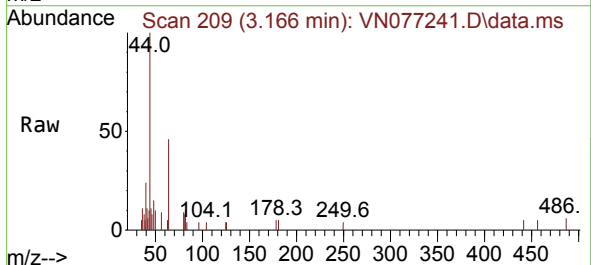
Instrument :
MSVOA_N
ClientSampleId :
WC01

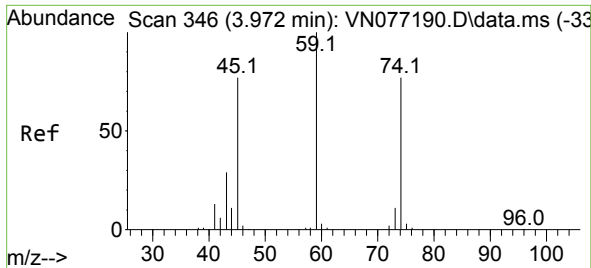
Tgt Ion:168 Resp: 264881
Ion Ratio Lower Upper
168 100
99 62.9 48.6 73.0



#6
Chloroethane
Concen: 0.278 ug/l
RT: 3.166 min Scan# 209
Delta R.T. 0.041 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

Tgt Ion: 64 Resp: 1054
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#





#8

Diethyl Ether

Concen: 223.694 ug/l

RT: 3.972 min Scan# 346

Delta R.T. -0.000 min

Lab File: VN077241.D

Acq: 28 Mar 2023 16:54

Instrument :

MSVOA_N

ClientSampleId :

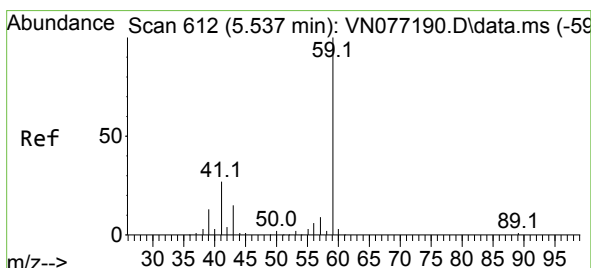
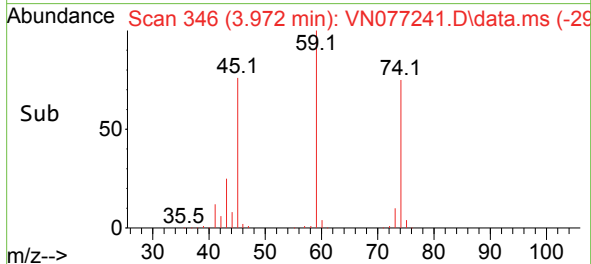
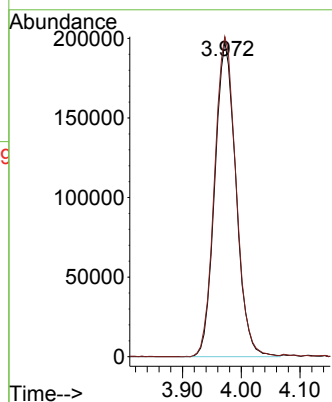
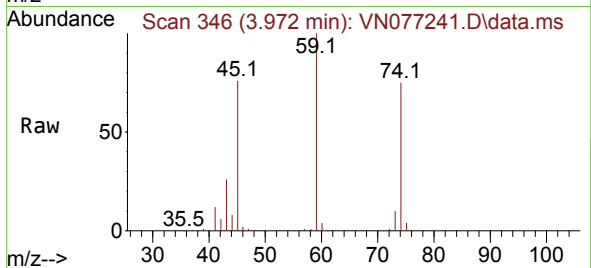
WC01

Tgt Ion: 74 Resp: 494315

Ion Ratio Lower Upper

74 100

45 103.6 35.5 106.5



#11

Tert butyl alcohol

Concen: 0.578 ug/l

RT: 5.537 min Scan# 612

Delta R.T. -0.000 min

Lab File: VN077241.D

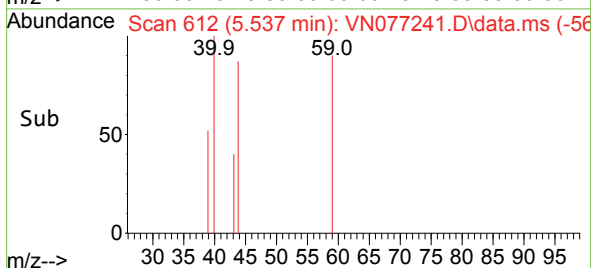
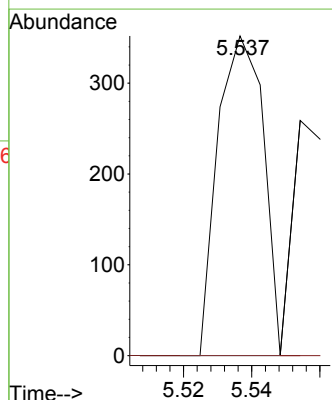
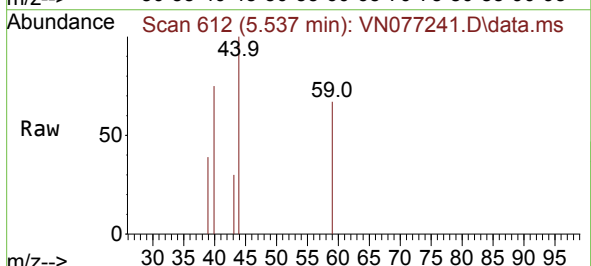
Acq: 28 Mar 2023 16:54

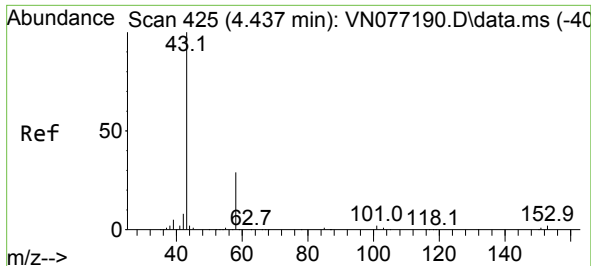
Tgt Ion: 59 Resp: 326

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#

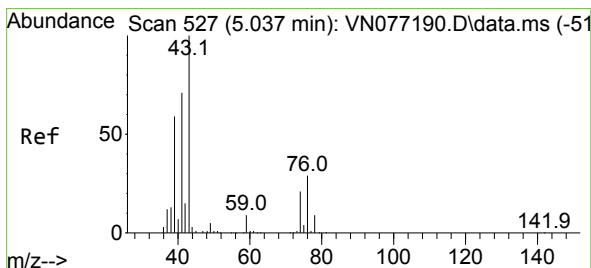
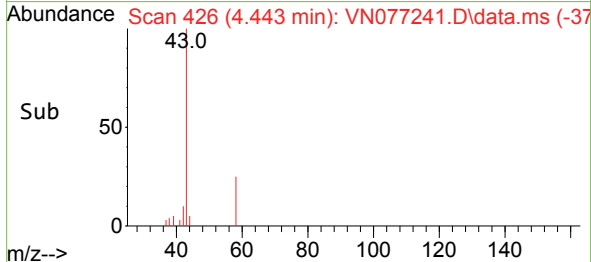
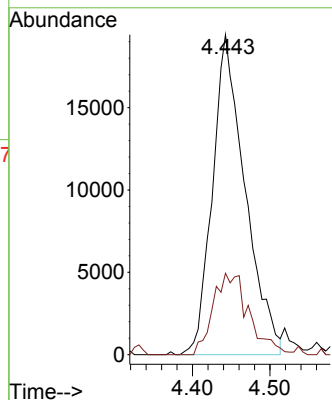
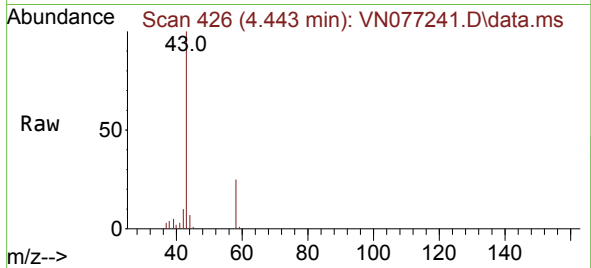




#16
Acetone
Concen: 36.886 ug/l
RT: 4.443 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

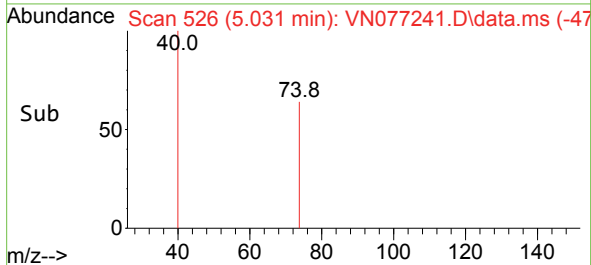
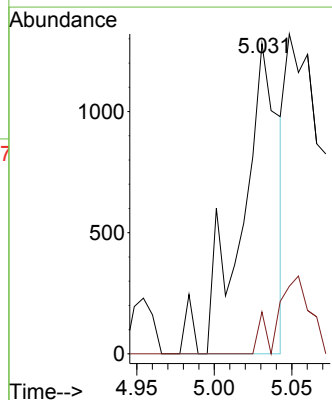
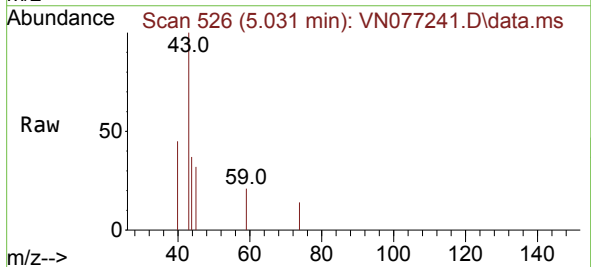
Instrument :
MSVOA_N
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WC01

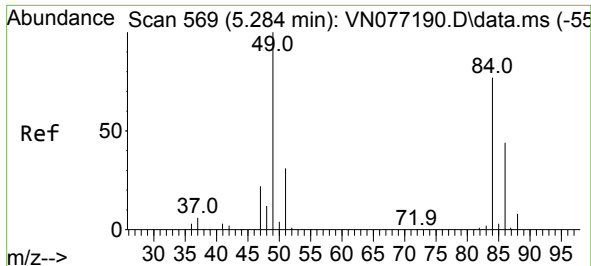
Tgt Ion: 43 Resp: 56801
Ion Ratio Lower Upper
43 100
58 25.4 28.2 42.2#



#18
Methyl Acetate
Concen: 0.348 ug/l
RT: 5.031 min Scan# 526
Delta R.T. -0.006 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

Tgt Ion: 43 Resp: 2141
Ion Ratio Lower Upper
43 100
74 0.0 25.9 38.9#

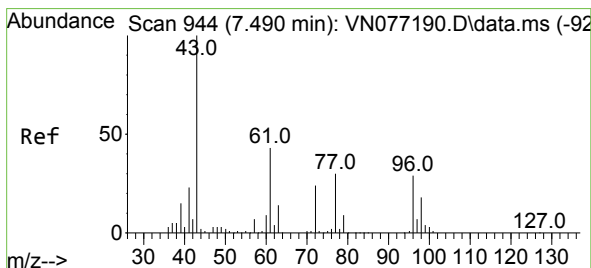
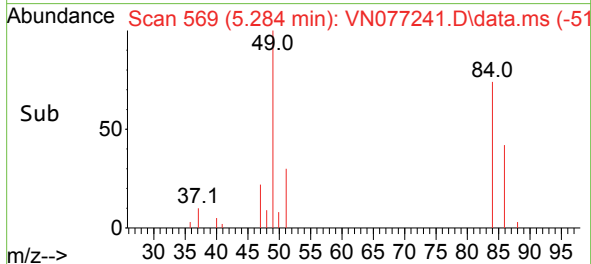
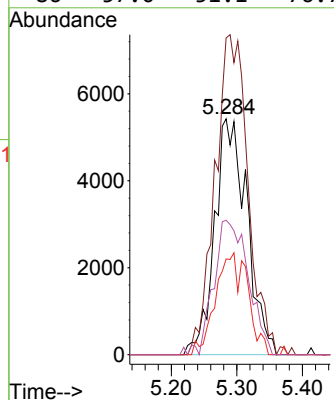
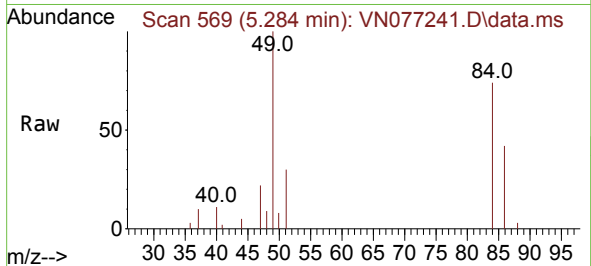




#20
Methylene Chloride
Concen: 5.410 ug/l
RT: 5.284 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

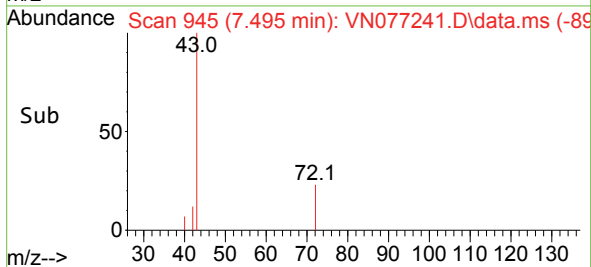
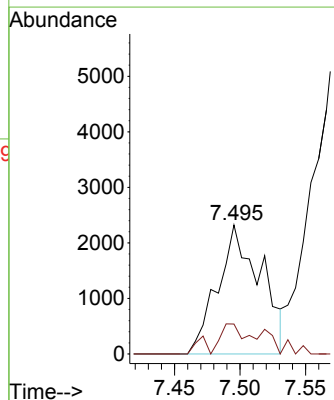
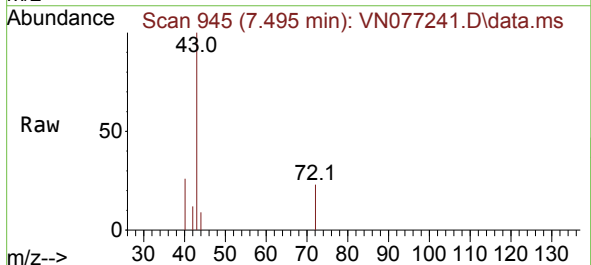
Instrument :
MSVOA_N
ClientSampleId :
WC01

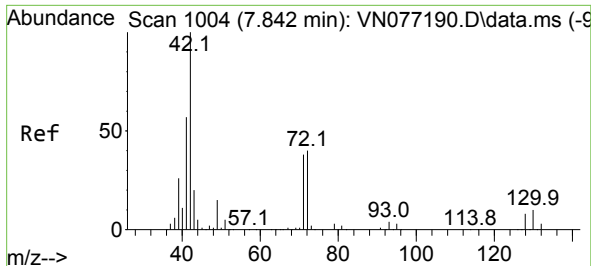
Tgt Ion:	84	Resp:	18552
Ion	Ratio	Lower	Upper
84	100		
49	134.3	76.6	114.8#
51	40.6	25.4	38.2#
86	57.0	51.1	76.7



#25
2-Butanone
Concen: 2.208 ug/l
RT: 7.495 min Scan# 945
Delta R.T. 0.005 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

Tgt Ion:	43	Resp:	5317
Ion	Ratio	Lower	Upper
43	100		
72	23.2	28.8	43.2#

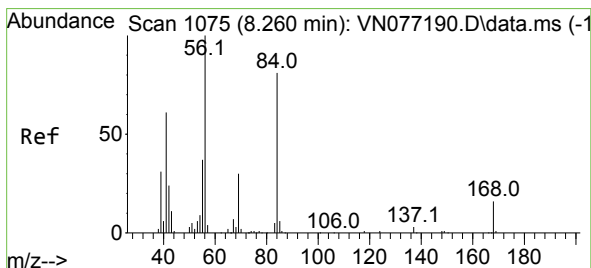
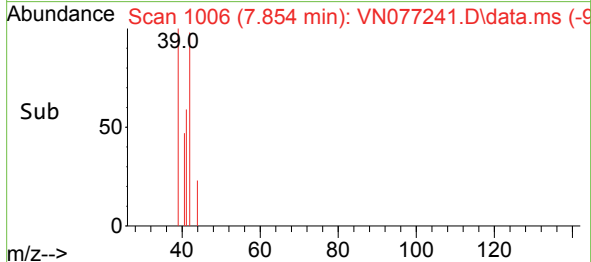
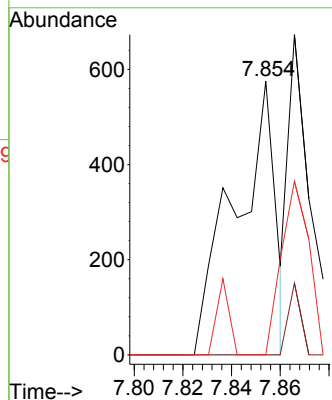
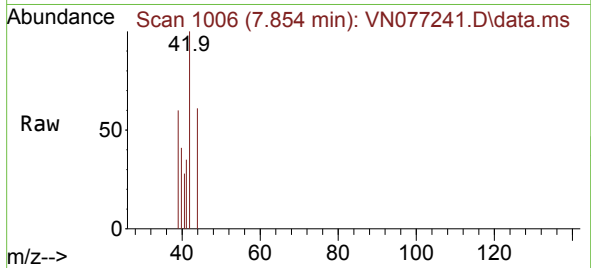




#29
Tetrahydrofuran
Concen: 0.418 ug/l
RT: 7.854 min Scan# 10
Delta R.T. 0.012 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

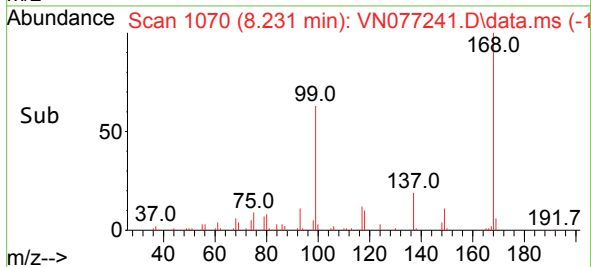
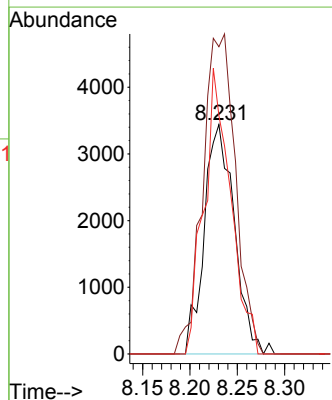
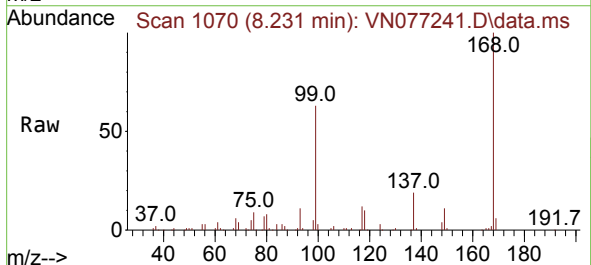
Instrument :
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ClientSampleId :
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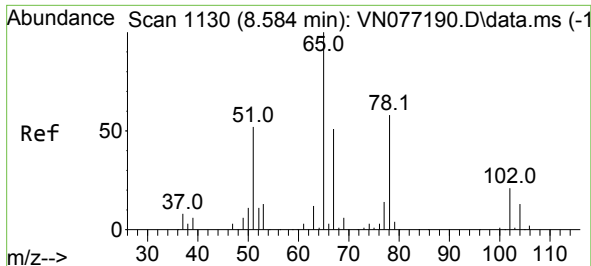
Tgt Ion:	42	Resp:	667
Ion	Ratio	Lower	Upper
42	100		
72	7.9	48.6	73.0#
71	42.9	45.1	67.7#



#31
Cyclohexane
Concen: 1.326 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.029 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

Tgt Ion:	56	Resp:	7627
Ion	Ratio	Lower	Upper
56	100		
69	133.9	27.0	40.6#
84	103.9	82.9	124.3





#33

1,2-Dichloroethane-d4

Concen: 53.823 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. -0.001 min

Lab File: VN077241.D

Acq: 28 Mar 2023 16:54

Instrument :

MSVOA_N

ClientSampleId :

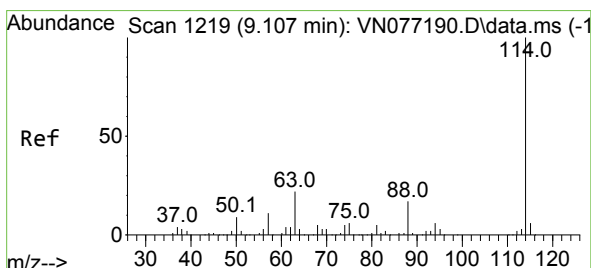
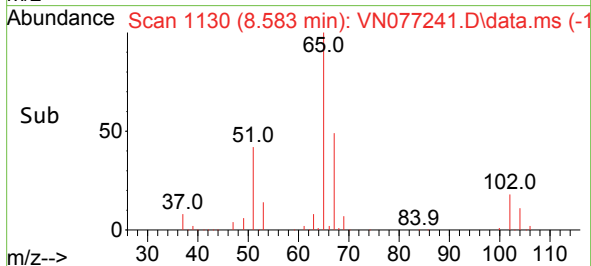
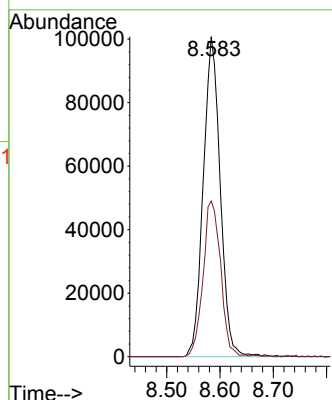
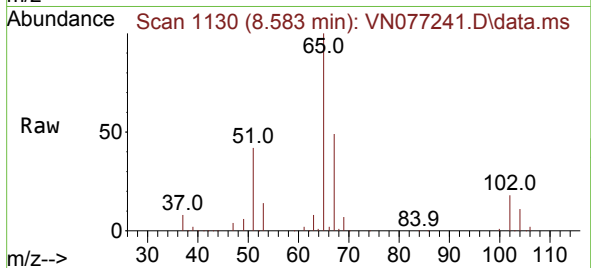
WC01

Tgt Ion: 65 Resp: 222908

Ion Ratio Lower Upper

65 100

67 50.3 0.0 107.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. -0.000 min

Lab File: VN077241.D

Acq: 28 Mar 2023 16:54

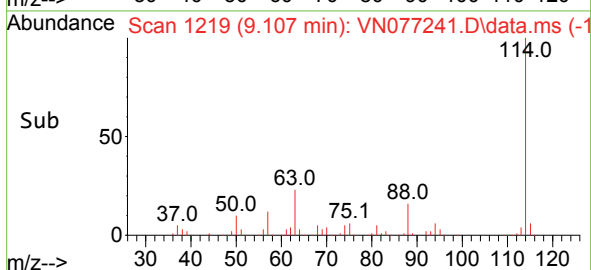
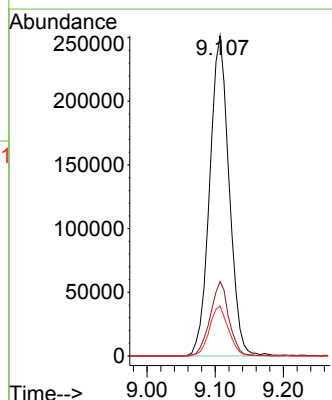
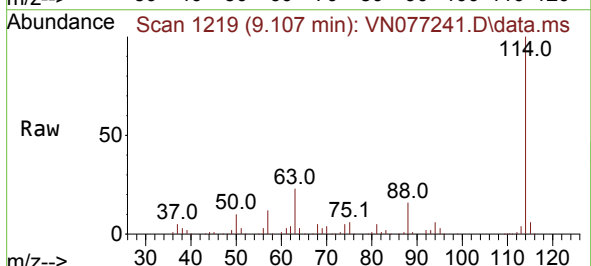
Tgt Ion: 114 Resp: 498647

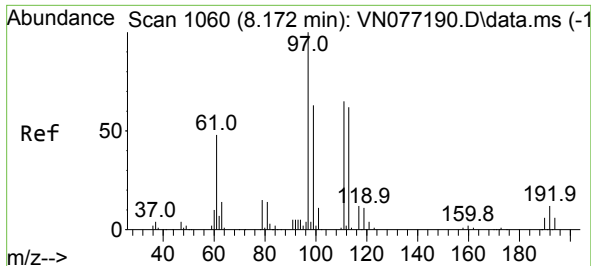
Ion Ratio Lower Upper

114 100

63 23.3 0.0 36.6

88 15.6 0.0 28.6

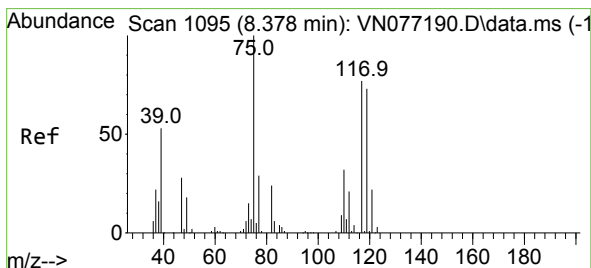
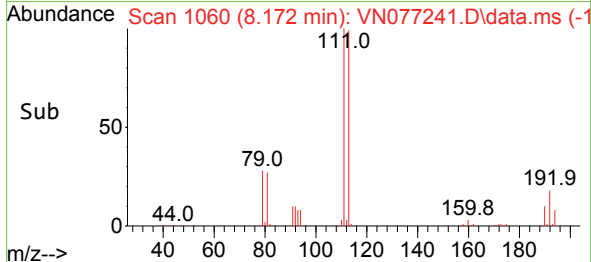
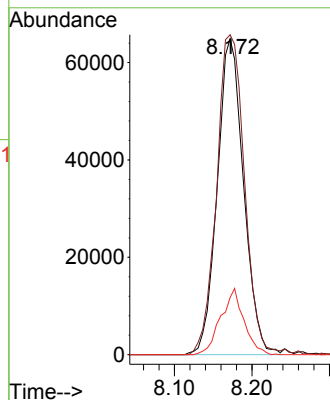
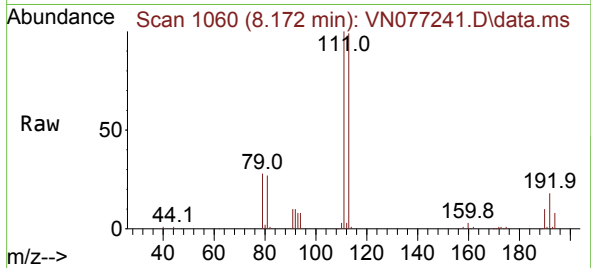




#35
Dibromofluoromethane
Concen: 45.346 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

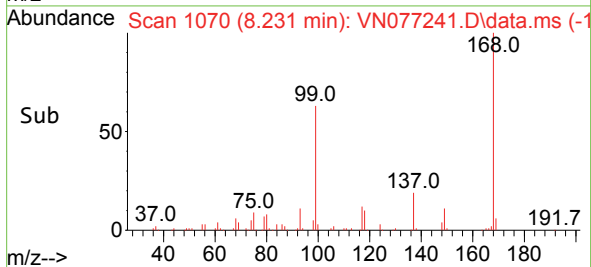
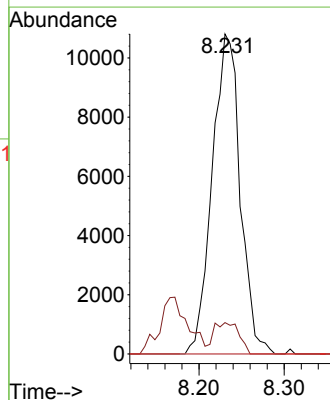
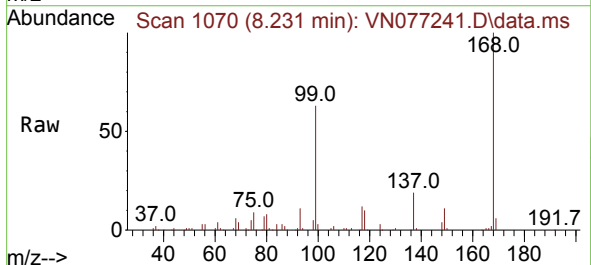
Instrument :
MSVOA_N
ClientSampleId :
WC01

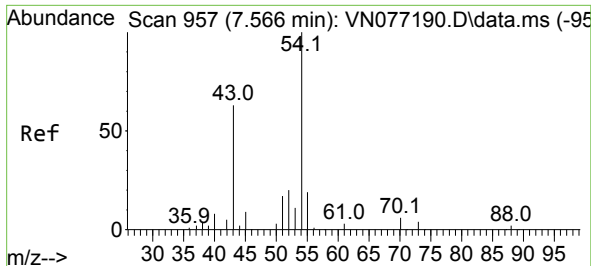
Tgt Ion:113 Resp: 153431
Ion Ratio Lower Upper
113 100
111 107.6 81.8 122.8
192 18.6 13.9 20.9



#36
1,1-Dichloropropene
Concen: 5.246 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.147 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

Tgt Ion: 75 Resp: 24704
Ion Ratio Lower Upper
75 100
110 8.9 18.9 56.9#
77 0.0 24.9 37.3#

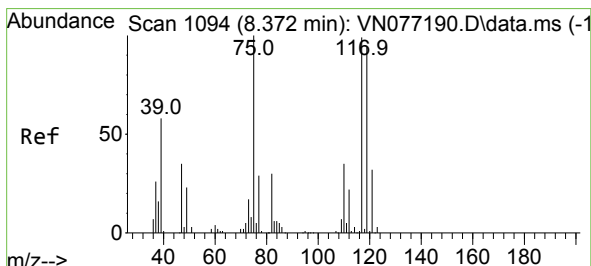
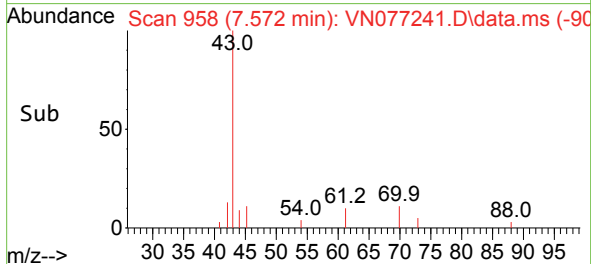
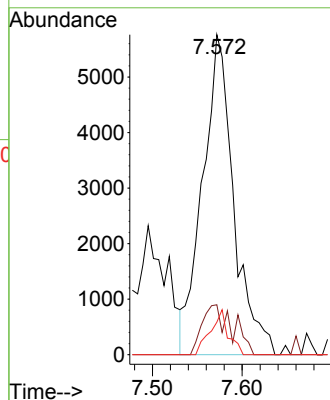
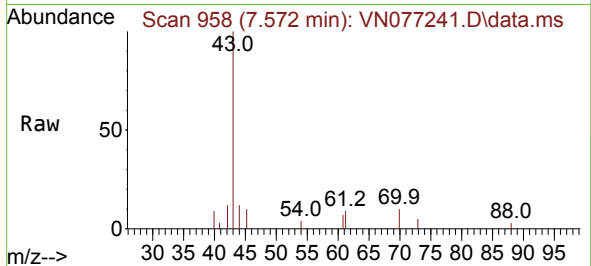




#37
Ethyl Acetate
Concen: 2.650 ug/l
RT: 7.572 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

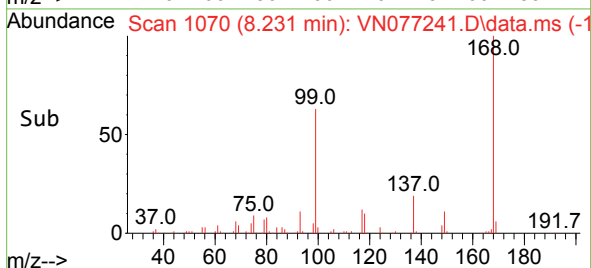
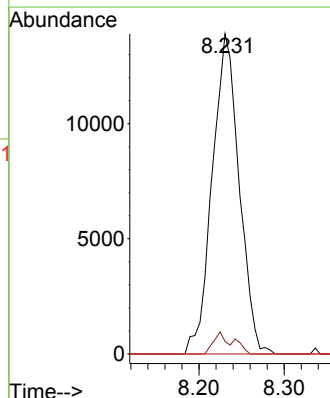
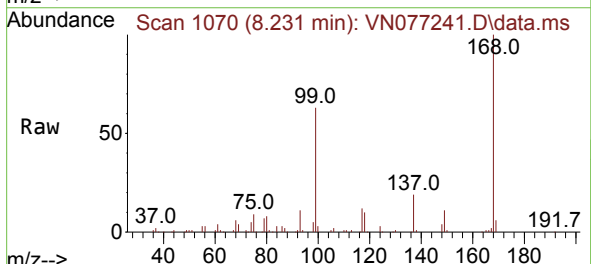
Instrument :
MSVOA_N
ClientSampleId :
WC01

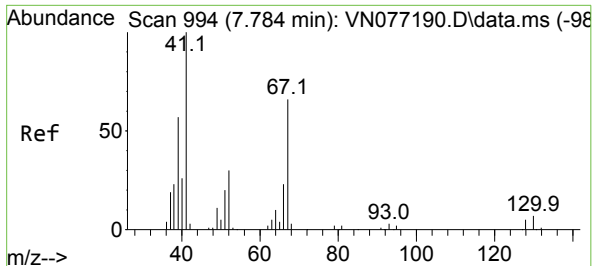
Tgt Ion: 43 Resp: 13909
Ion Ratio Lower Upper
43 100
61 15.1 13.5 20.3
70 8.1 11.0 16.6#



#38
Carbon Tetrachloride
Concen: 6.395 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.141 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

Tgt Ion: 117 Resp: 30533
Ion Ratio Lower Upper
117 100
119 3.9 76.9 115.3#
121 0.0 23.2 34.8#

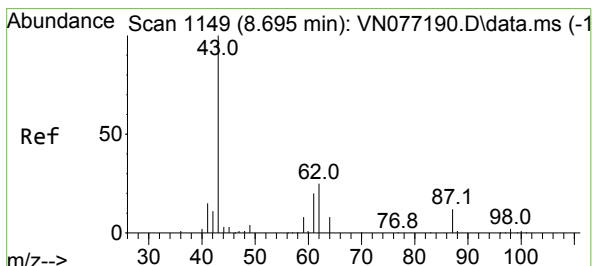
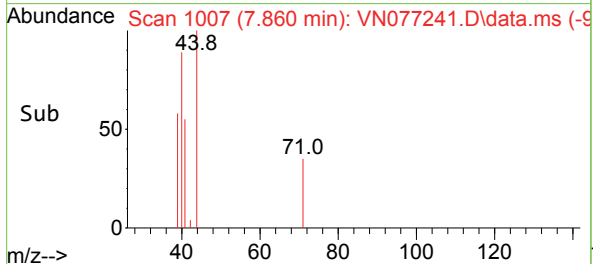
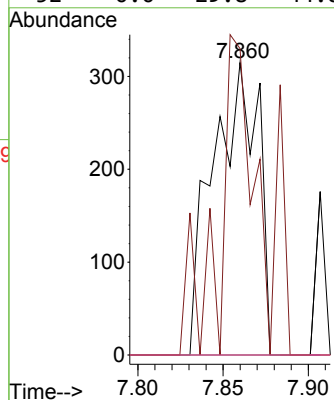
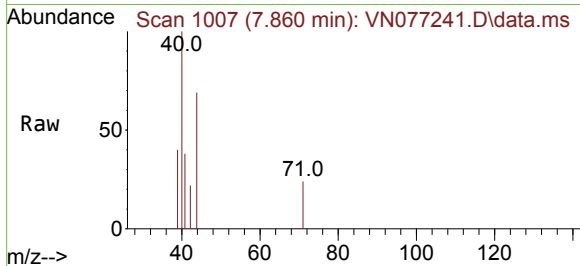




#41
Methacrylonitrile
Concen: 0.204 ug/l
RT: 7.860 min Scan# 1007
Delta R.T. 0.076 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

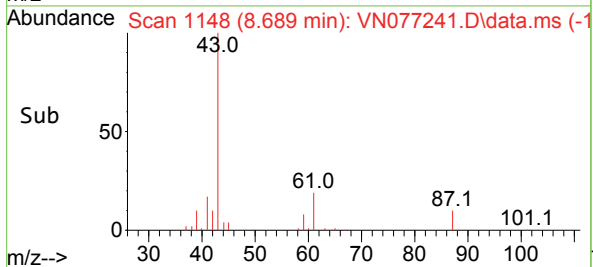
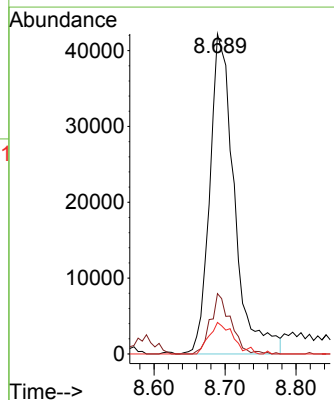
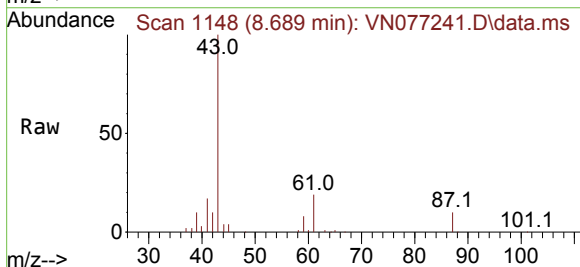
Instrument :
MSVOA_N
ClientSampleId :
WC01

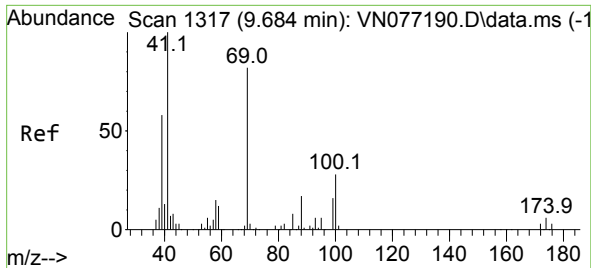
Tgt Ion: 41 Resp: 584
Ion Ratio Lower Upper
41 100
39 72.9 43.4 65.0#
67 0.0 78.6 118.0#
52 0.0 29.8 44.8#



#43
Isopropyl Acetate
Concen: 11.968 ug/l
RT: 8.689 min Scan# 1148
Delta R.T. -0.006 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

Tgt Ion: 43 Resp: 101347
Ion Ratio Lower Upper
43 100
61 15.7 26.2 39.2#
87 9.6 14.8 22.2#

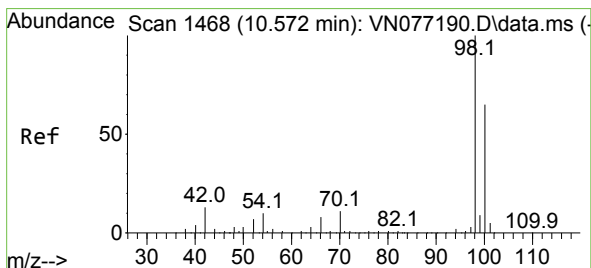
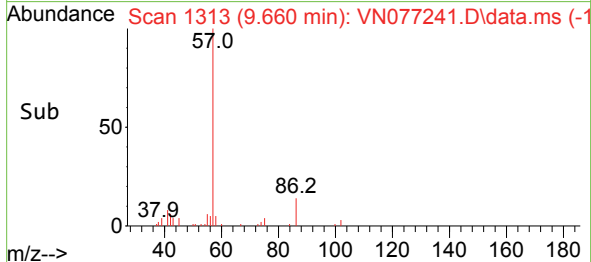
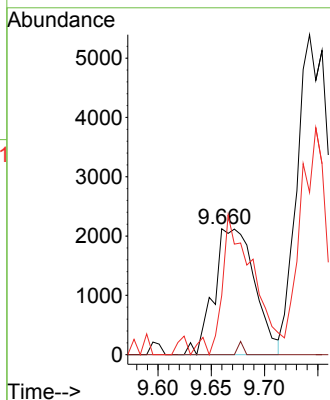
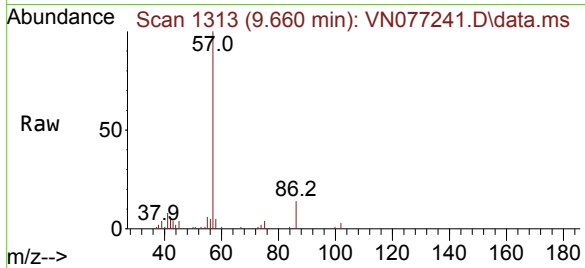




#48
Methyl methacrylate
Concen: 1.386 ug/l
RT: 9.660 min Scan# 1317
Delta R.T. -0.024 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

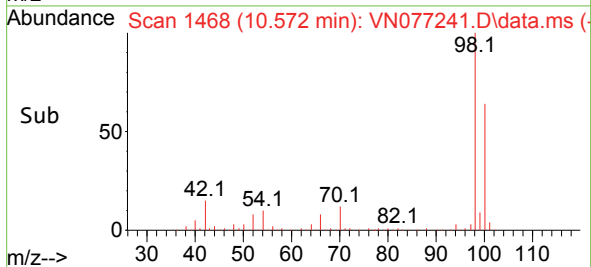
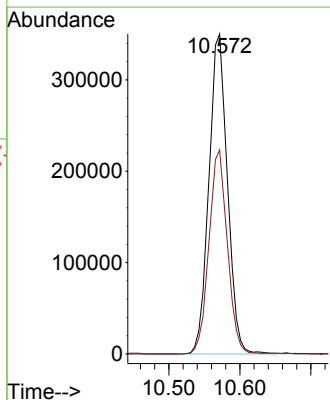
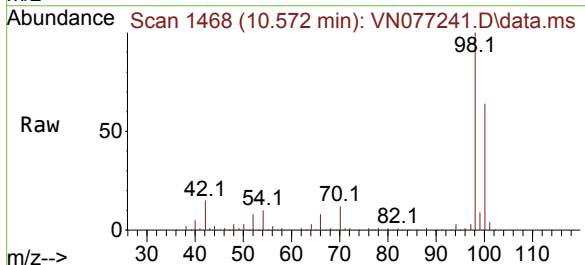
Instrument :
MSVOA_N
ClientSampleId :
WC01

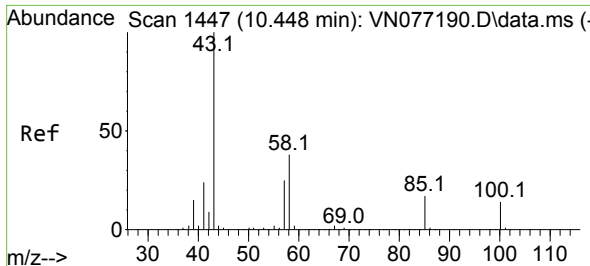
Tgt Ion: 41 Resp: 5651
Ion Ratio Lower Upper
41 100
69 1.4 92.6 139.0#
39 86.9 51.4 77.0#



#50
Toluene-d8
Concen: 50.026 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

Tgt Ion: 98 Resp: 634243
Ion Ratio Lower Upper
98 100
100 63.3 52.8 79.2

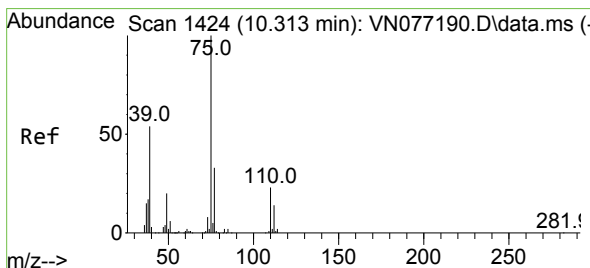
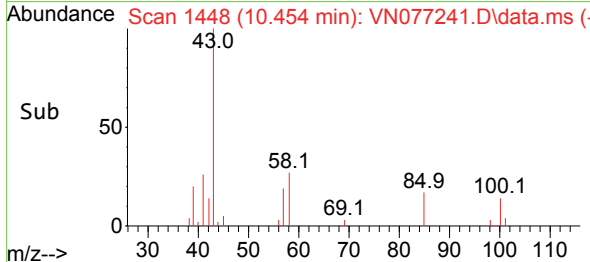
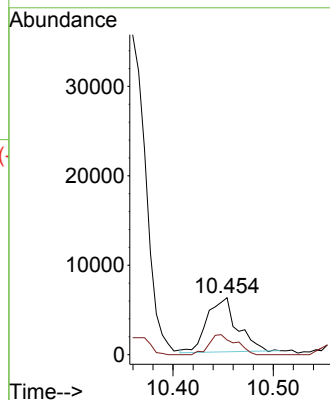
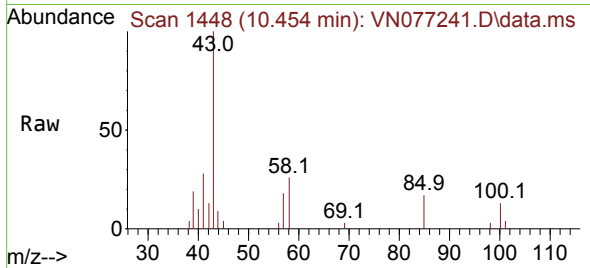




#51
4-Methyl-2-Pentanone
Concen: 2.362 ug/l
RT: 10.454 min Scan# 1447
Delta R.T. 0.006 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

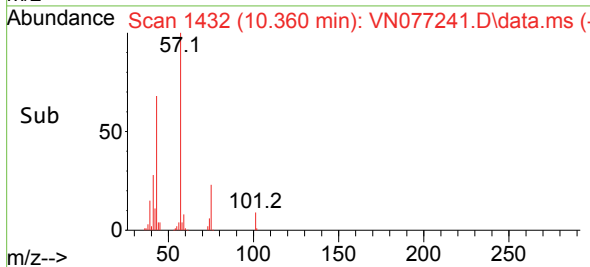
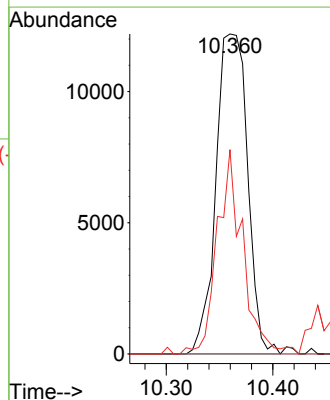
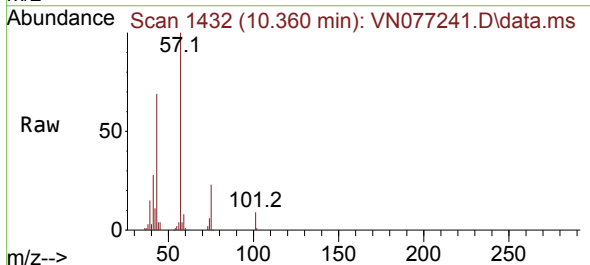
Instrument :
MSVOA_N
ClientSampleId :
WC01

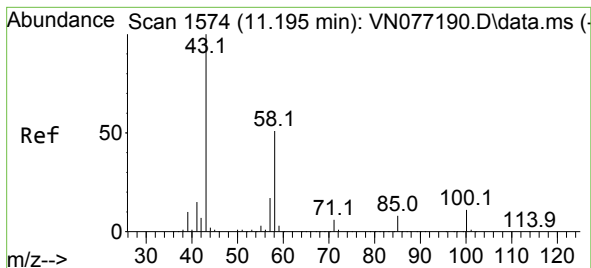
Tgt Ion: 43 Resp: 12587
Ion Ratio Lower Upper
43 100
58 32.7 37.4 56.0#



#54
cis-1,3-Dichloropropene
Concen: 4.531 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

Tgt Ion: 75 Resp: 25105
Ion Ratio Lower Upper
75 100
77 0.0 25.7 38.5#
39 63.8 29.7 44.5#

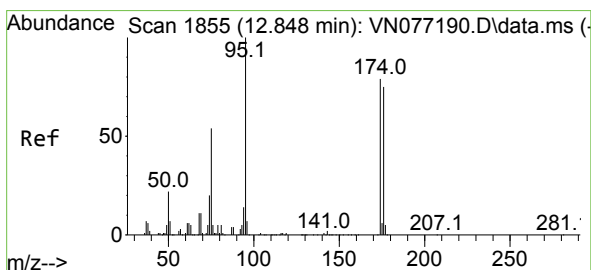
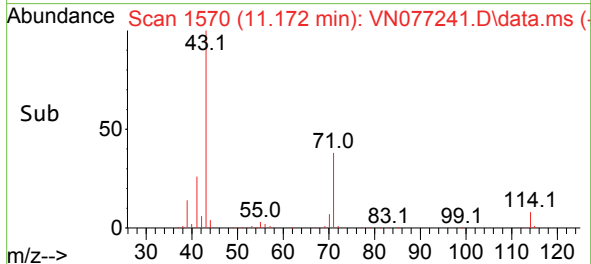
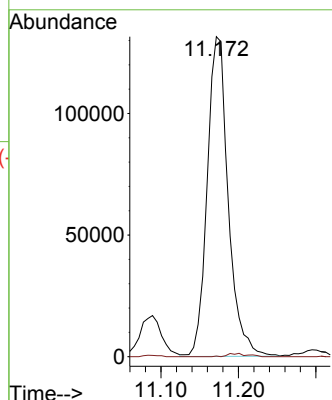
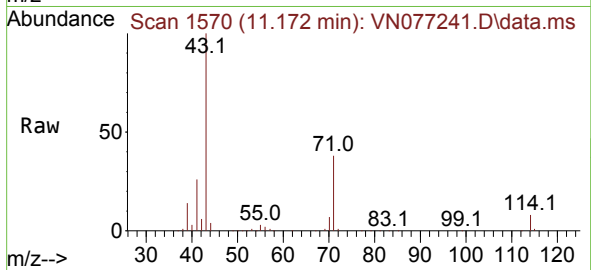




#59
2-Hexanone
Concen: 64.791 ug/l
RT: 11.172 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

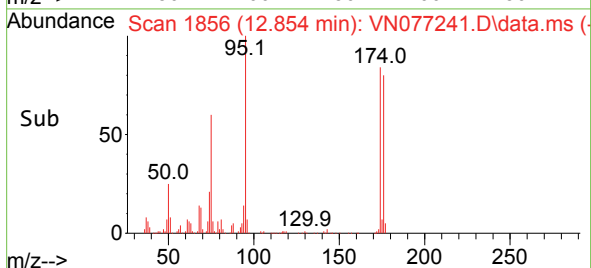
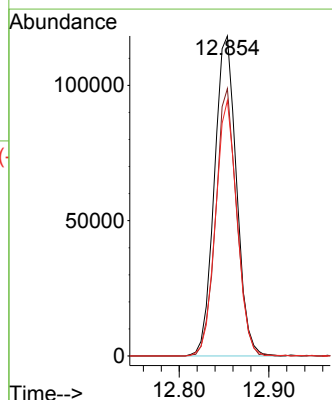
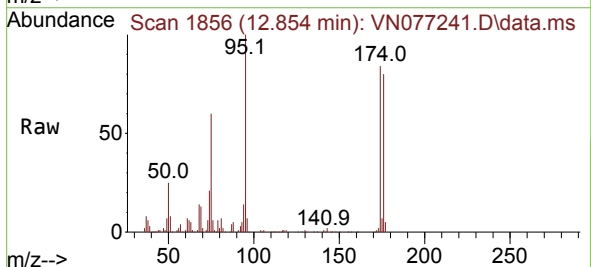
Instrument :
MSVOA_N
ClientSampleId :
WC01

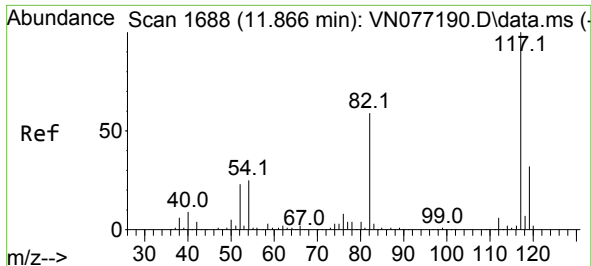
Tgt Ion: 43 Resp: 248099
Ion Ratio Lower Upper
43 100
58 0.0 32.6 98.0#



#62
4-Bromofluorobenzene
Concen: 48.553 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

Tgt Ion: 95 Resp: 202026
Ion Ratio Lower Upper
95 100
174 79.3 0.0 162.4
176 77.6 0.0 157.4

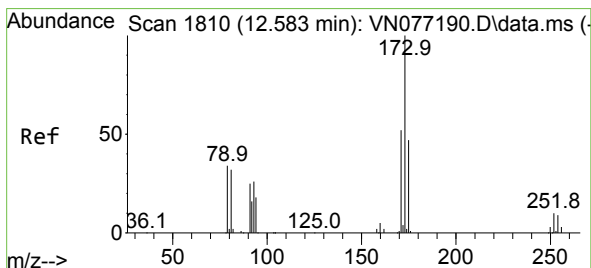
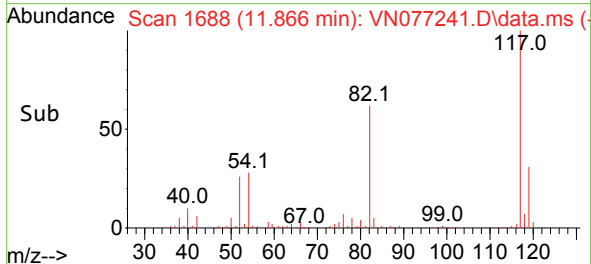
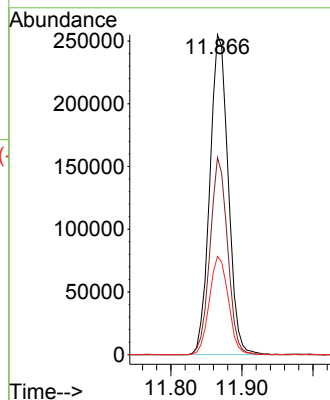
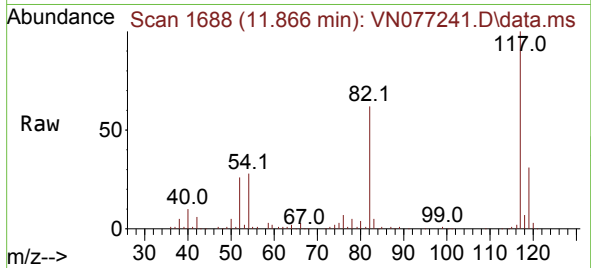




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

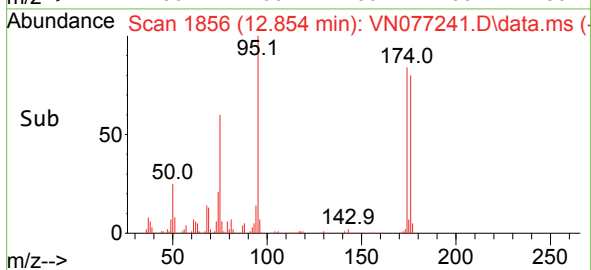
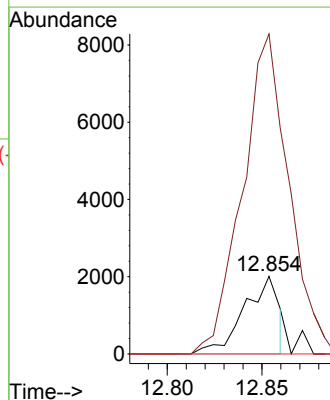
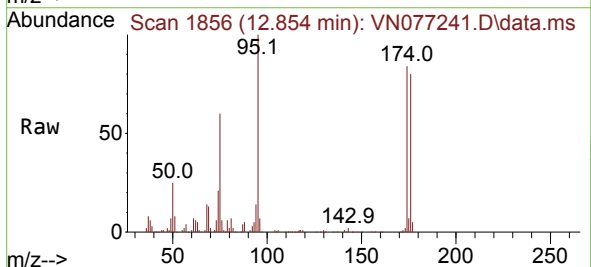
Instrument :
MSVOA_N
ClientSampleId :
WC01

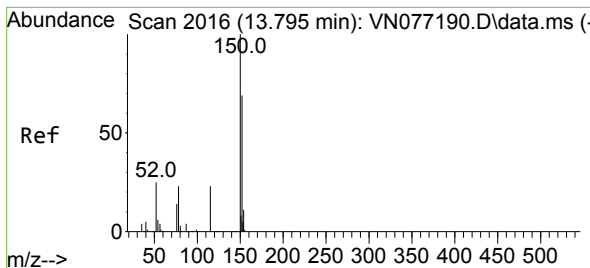
Tgt Ion:117 Resp: 457959
Ion Ratio Lower Upper
117 100
82 61.6 43.5 65.3
119 30.7 25.5 38.3



#71
Bromoform
Concen: 1.034 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.271 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

Tgt Ion:173 Resp: 2581
Ion Ratio Lower Upper
173 100
175 442.8 24.9 74.6#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN077241.D

Acq: 28 Mar 2023 16:54

Instrument :

MSVOA_N

ClientSampleId :

WC01

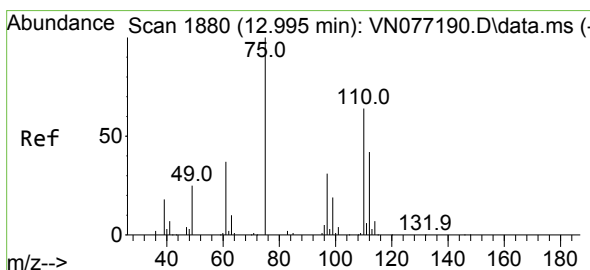
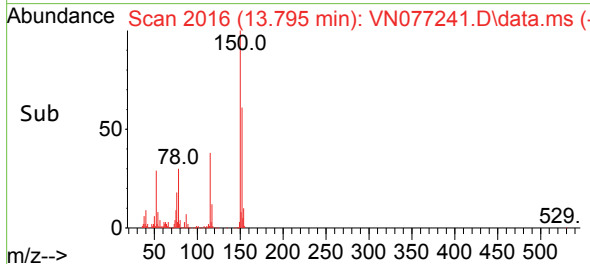
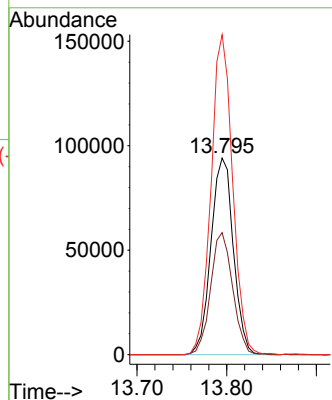
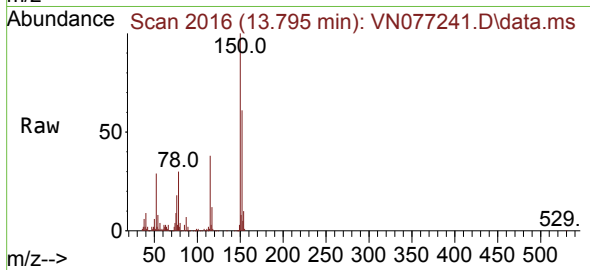
Tgt Ion:152 Resp: 163273

Ion Ratio Lower Upper

152 100

115 61.1 30.3 90.9

150 156.7 0.0 353.6



#76

1,2,3-Trichloropropane

Concen: 35.904 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN077241.D

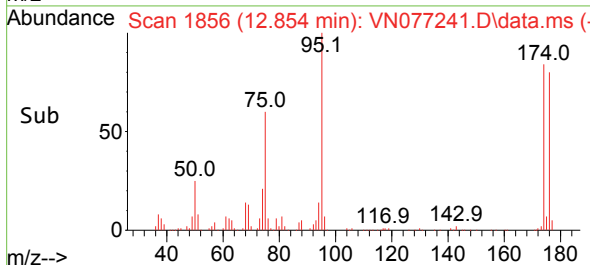
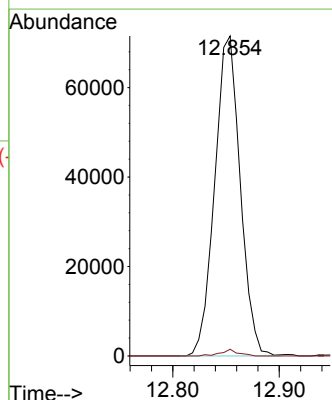
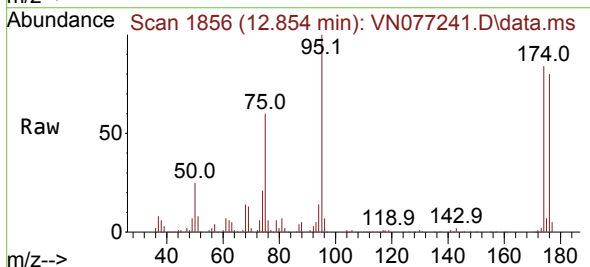
Acq: 28 Mar 2023 16:54

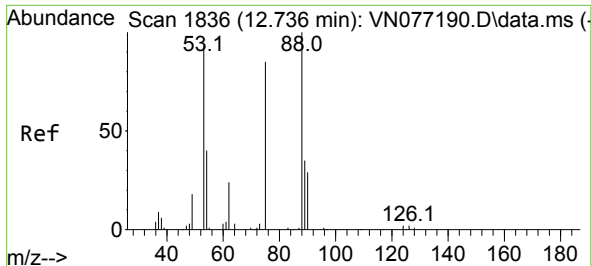
Tgt Ion: 75 Resp: 118918

Ion Ratio Lower Upper

75 100

77 1.4 93.8 281.4#

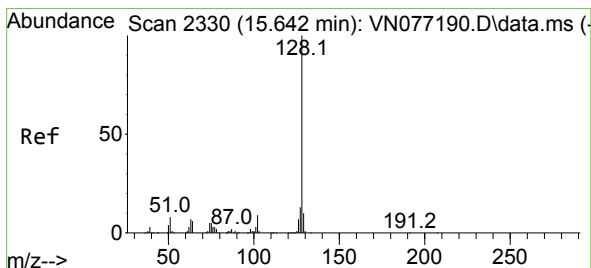
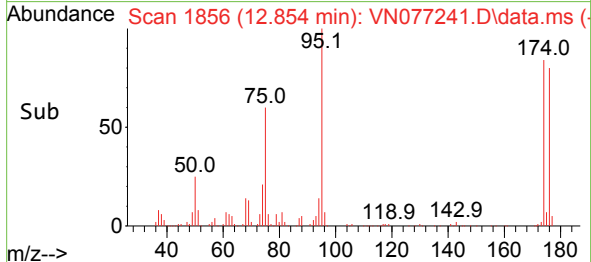
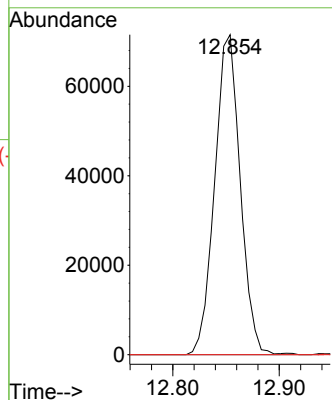
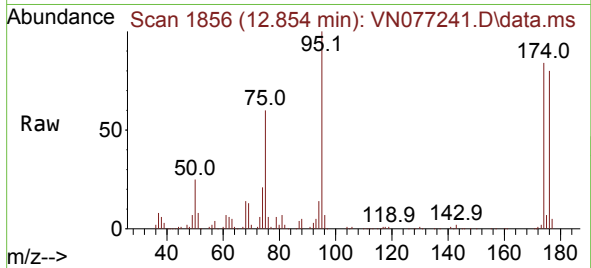




#81
trans-1,4-Dichloro-2-butene
Concen: 103.480 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

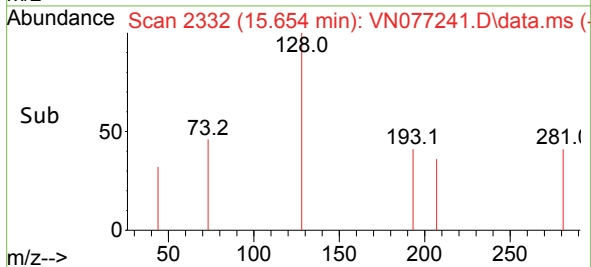
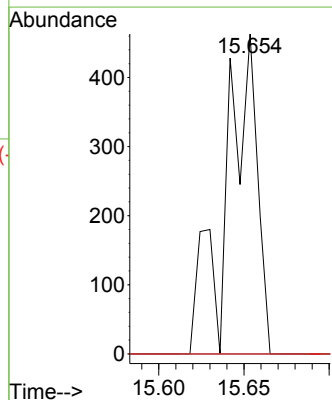
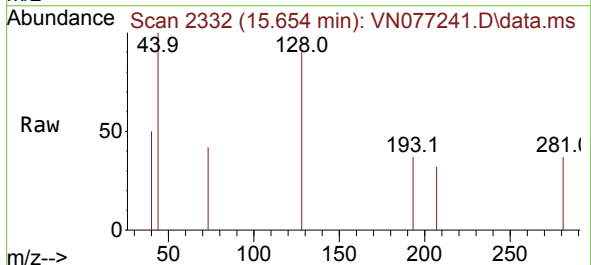
Instrument :
MSVOA_N
ClientSampleId :
WC01

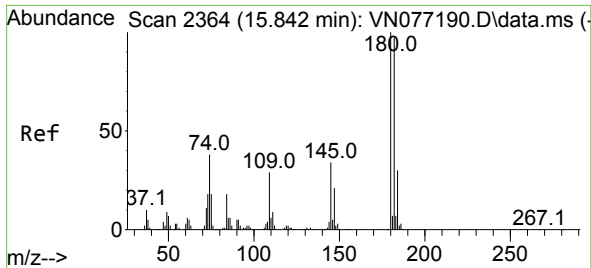
Tgt Ion: 75 Resp: 118918
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.0#
89 0.0 39.5 59.3#



#95
Naphthalene
Concen: 5.976 ug/l
RT: 15.654 min Scan# 2332
Delta R.T. 0.012 min
Lab File: VN077241.D
Acq: 28 Mar 2023 16:54

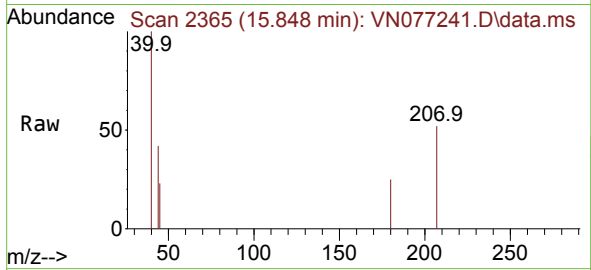
Tgt Ion:128 Resp: 597
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.4#
129 0.0 8.9 13.3#





#96
 1,2,3-Trichlorobenzene
 Concen: 4.670 ug/l
 RT: 15.848 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN077241.D
 Acq: 28 Mar 2023 16:54

Instrument :
 MSVOA_N
 ClientSampleId :
 WC01



Tgt Ion:180 Resp: 62
 Ion Ratio Lower Upper
 180 100
 182 159.7 47.7 143.1#
 145 0.0 17.0 51.0#

