

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121923\
 Data File : VN080532.D
 Acq On : 19 Dec 2023 19:54
 Operator : JC\MD
 Sample : 05887-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 20 04:07:53 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121223W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 13 01:57:14 2023
 Response via : Initial Calibration

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

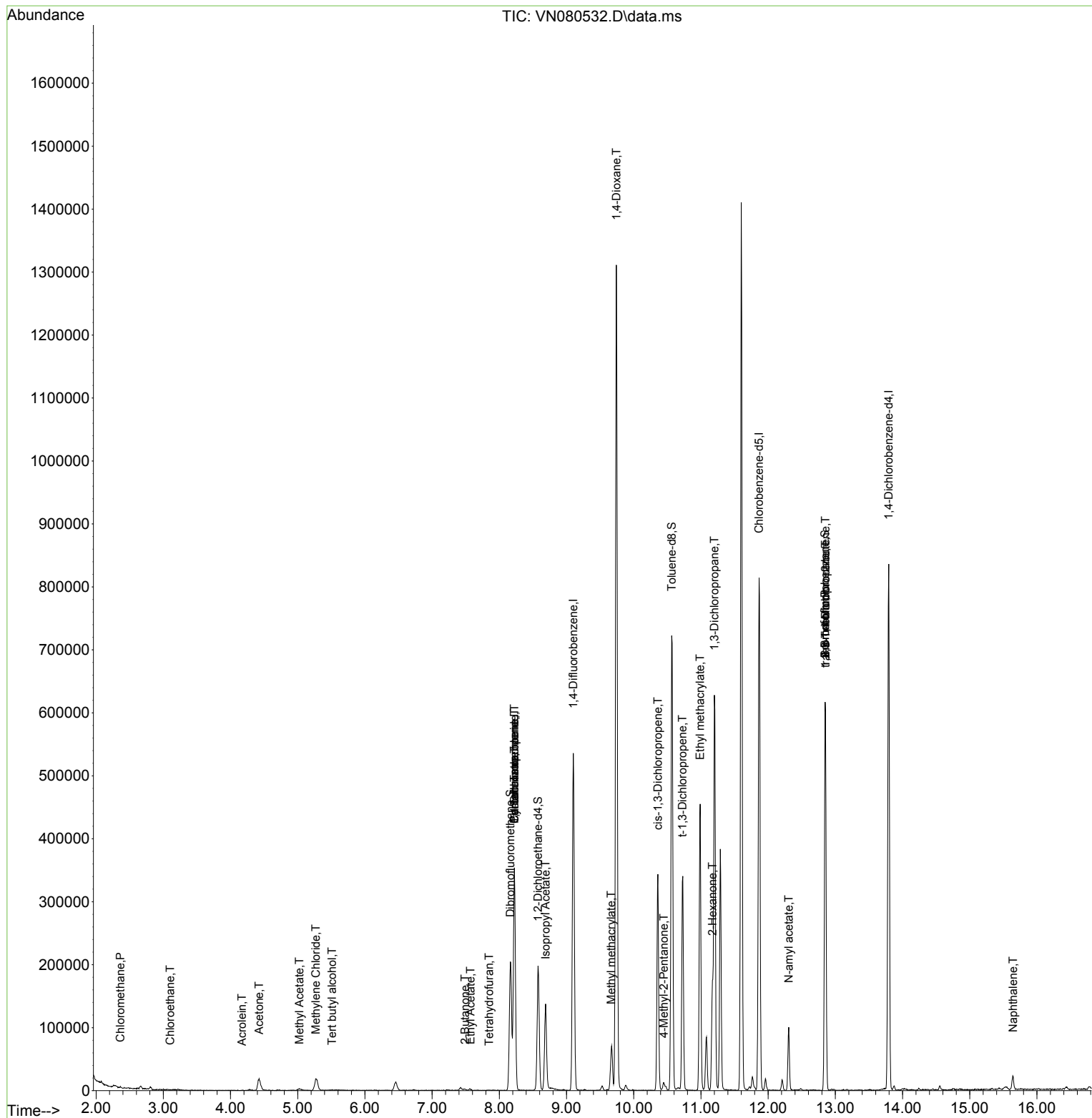
Internal Standards						
1) Pentafluorobenzene	8.224	168	241618	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	459482	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	472189	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	222998	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	169307	54.863	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.720%			
35) Dibromofluoromethane	8.165	113	144715	49.674	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.340%			
50) Toluene-d8	10.565	98	519056	47.773	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.540%			
62) 4-Bromofluorobenzene	12.847	95	222067	53.825	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.640%			
Target Compounds						Qvalue
3) Chloromethane	2.360	50	2241	0.291	ug/l	88
6) Chloroethane	3.101	64	416	0.246	ug/l #	43
11) Tert butyl alcohol	5.512	59	121	0.333	ug/l #	72
13) Acrolein	4.171	56	282	0.708	ug/l #	16
16) Acetone	4.424	43	35053	64.061	ug/l	92
18) Methyl Acetate	5.024	43	4831	1.372	ug/l	97
20) Methylene Chloride	5.271	84	15915	5.435	ug/l	97
25) 2-Butanone	7.489	43	3588	3.404	ug/l	88
29) Tetrahydrofuran	7.848	42	250	0.331	ug/l #	20
31) Cyclohexane	8.224	56	4909	1.170	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	19532	4.100	ug/l #	47
37) Ethyl Acetate	7.571	43	3219	1.079	ug/l #	71
38) Carbon Tetrachloride	8.224	117	27289	4.794	ug/l #	15
43) Isopropyl Acetate	8.689	43	145252	27.083	ug/l #	88
48) Methyl methacrylate	9.665	41	3810	1.190	ug/l #	30
49) 1,4-Dioxane	9.742	88	61	1.257	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	12679	4.292	ug/l #	74
53) t-1,3-Dichloropropene	10.724	75	1114	0.207	ug/l	100
54) cis-1,3-Dichloropropene	10.359	75	67000	11.652	ug/l #	61
56) Ethyl methacrylate	10.989	69	1676	0.484	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	7709	1.406	ug/l #	42
59) 2-Hexanone	11.171	43	124697	57.184	ug/l #	19
71) Bromoform	12.847	173	916	0.305	ug/l #	28
74) N-amyl acetate	12.306	43	26976	5.157	ug/l #	46
76) 1,2,3-Trichloropropane	12.853	75	121174	27.238	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	121174	71.515	ug/l #	15
95) Naphthalene	15.647	128	19225	1.547	ug/l	97

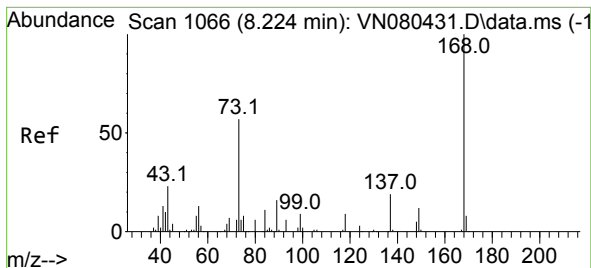
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121923\
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Quant Time: Dec 20 04:07:53 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121223W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 13 01:57:14 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VN080532.D

Acq: 19 Dec 2023 19:54

Instrument :

MSVOA_N

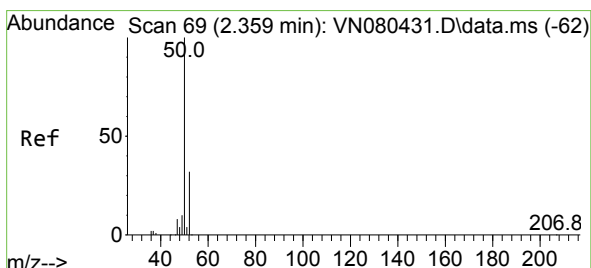
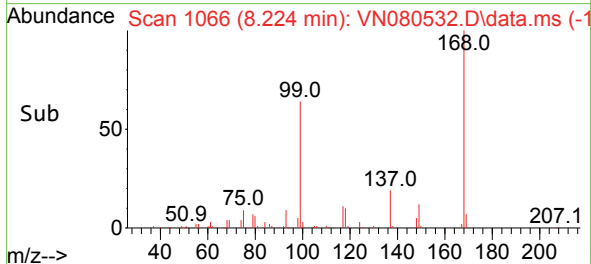
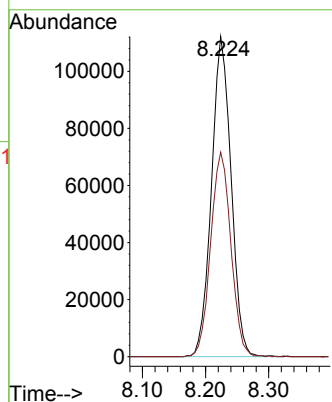
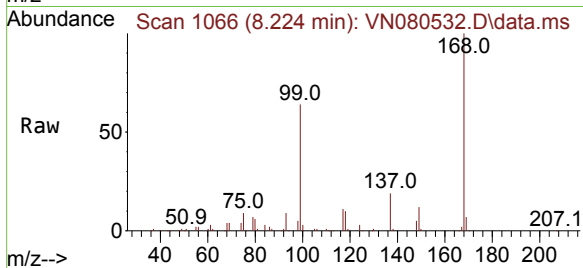
ClientSampleId :

Tgt Ion:168 Resp: 241618

Ion Ratio Lower Upper

168 100

99 63.9 53.0 79.6



#3

Chloromethane

Concen: 0.291 ug/l

RT: 2.360 min Scan# 69

Delta R.T. 0.001 min

Lab File: VN080532.D

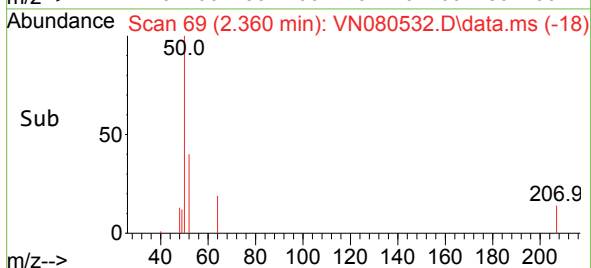
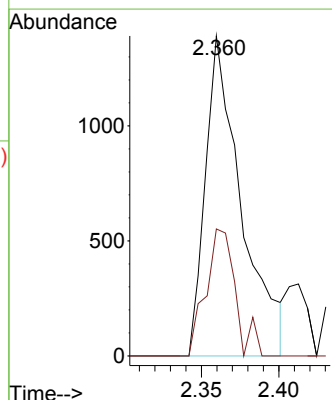
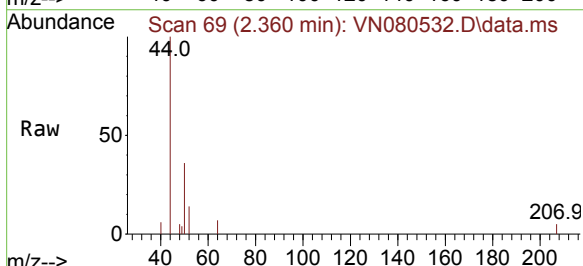
Acq: 19 Dec 2023 19:54

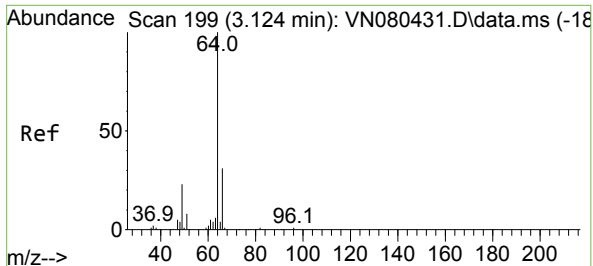
Tgt Ion: 50 Resp: 2241

Ion Ratio Lower Upper

50 100

52 39.7 26.5 39.7

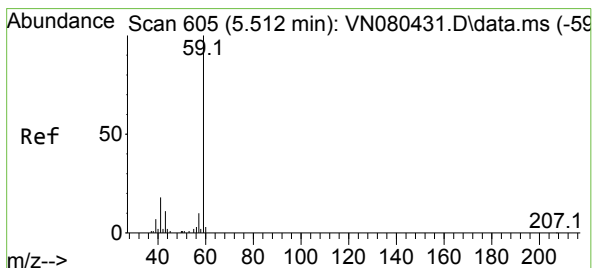
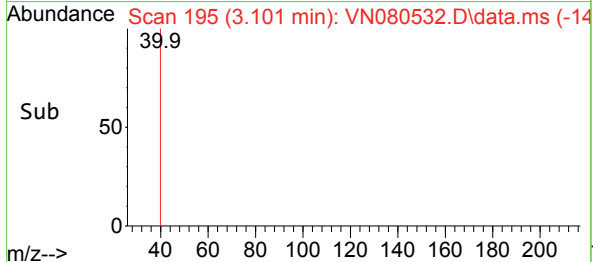
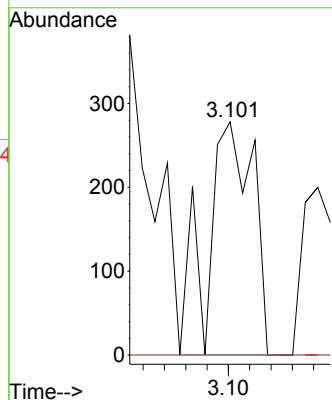
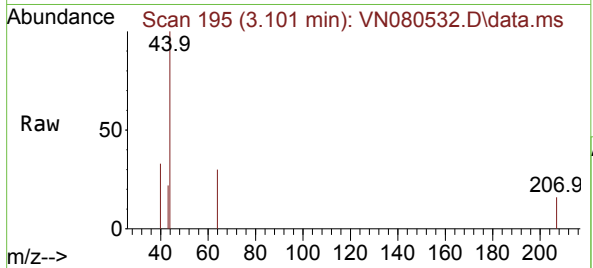




#6
Chloroethane
Concen: 0.246 ug/l
RT: 3.101 min Scan# 195
Delta R.T. -0.023 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

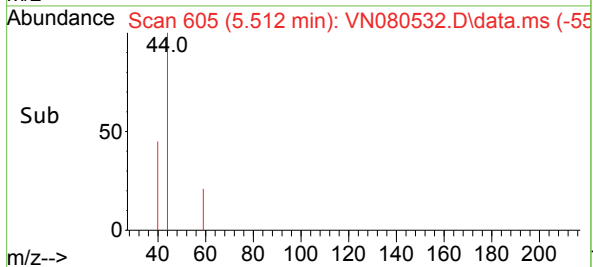
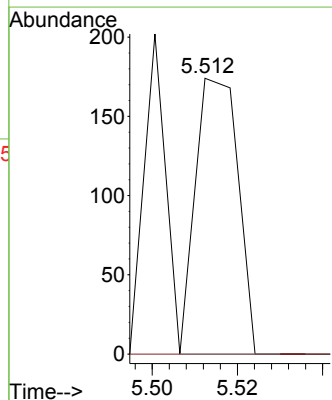
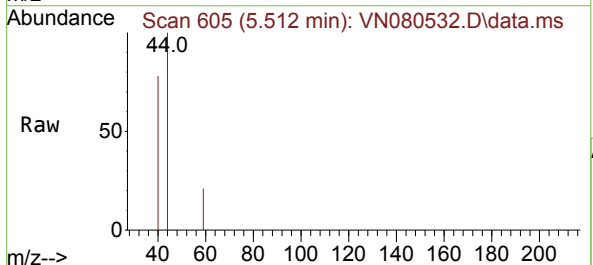
Instrument :
MSVOA_N
ClientSampleId :

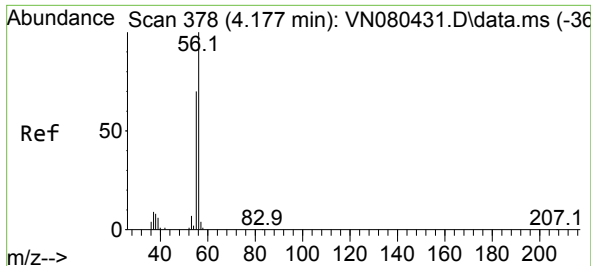
Tgt Ion: 64 Resp: 416
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 0.333 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

Tgt Ion: 59 Resp: 121
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

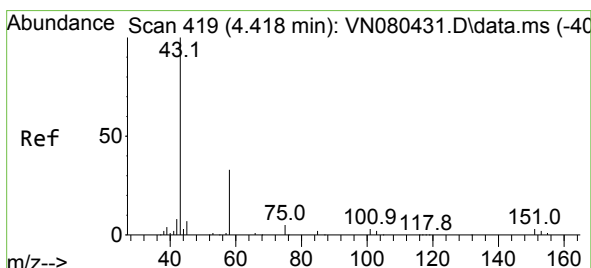
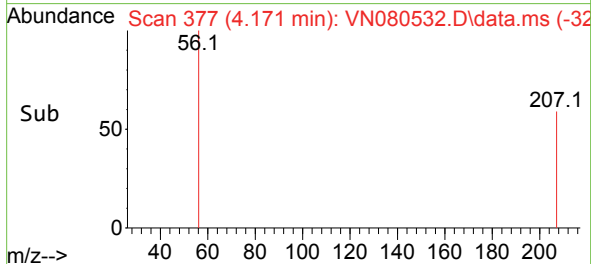
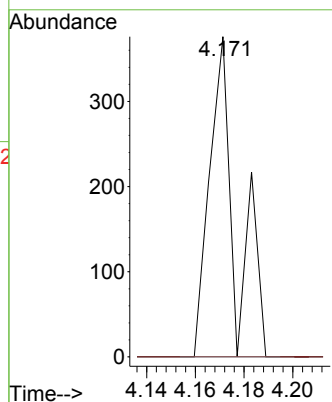
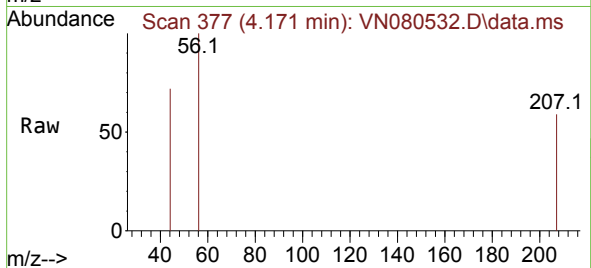




#13
Acrolein
Concen: 0.708 ug/l
RT: 4.171 min Scan# 31
Delta R.T. -0.005 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

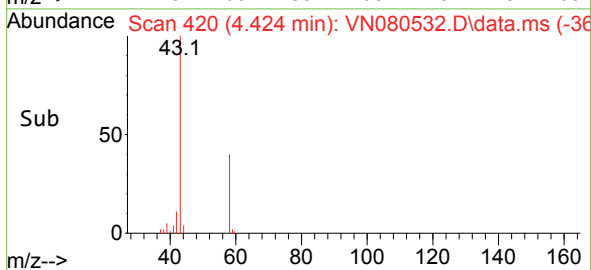
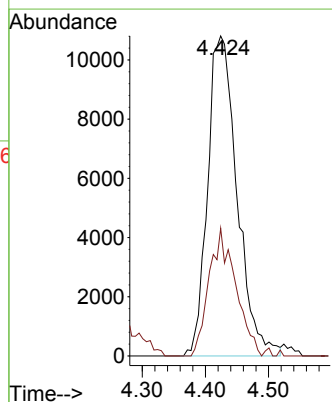
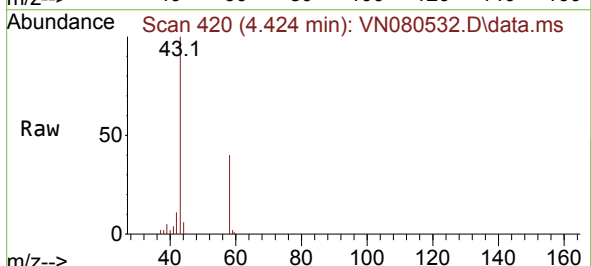
Instrument :
MSVOA_N
ClientSampleId :

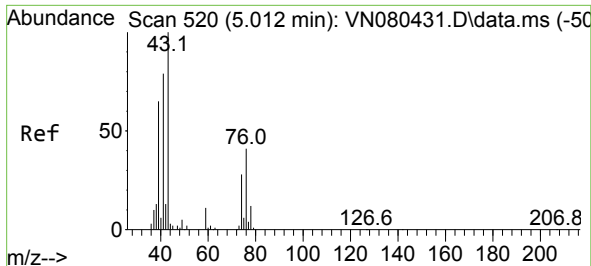
Tgt Ion: 56 Resp: 282
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#16
Acetone
Concen: 64.061 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

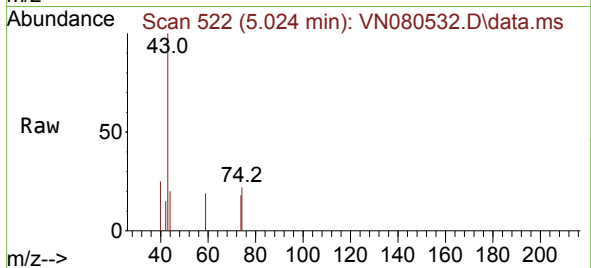
Tgt Ion: 43 Resp: 35053
Ion Ratio Lower Upper
43 100
58 39.9 28.0 42.0



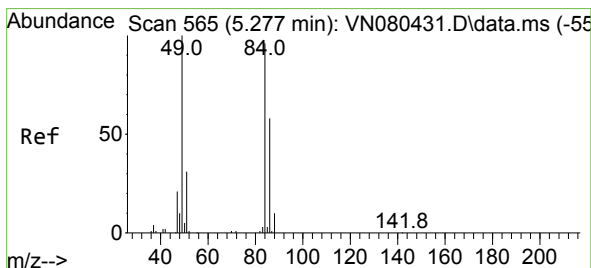
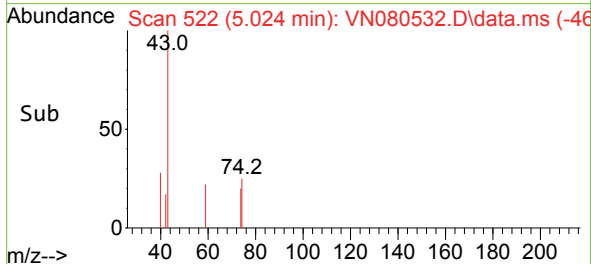
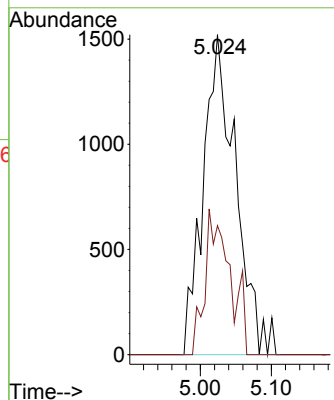


#18
Methyl Acetate
Concen: 1.372 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

Instrument :
MSVOA_N
ClientSampleId :

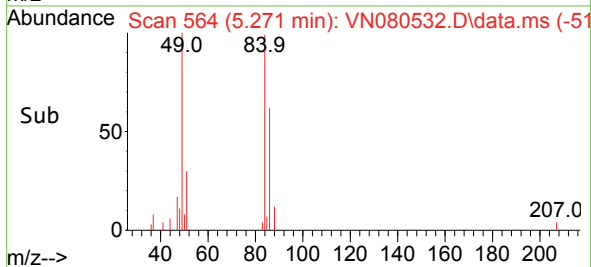
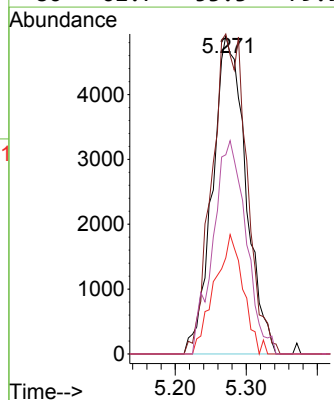
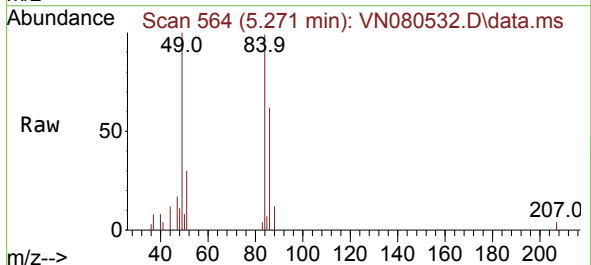


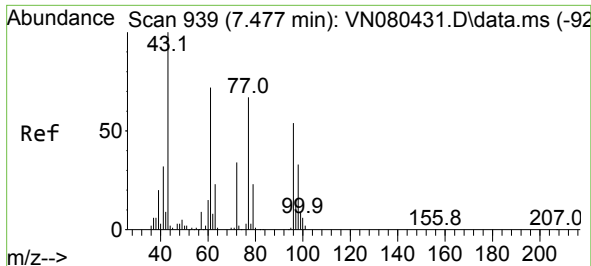
Tgt Ion: 43 Resp: 4831
Ion Ratio Lower Upper
43 100
74 34.7 26.2 39.4



#20
Methylene Chloride
Concen: 5.435 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.005 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

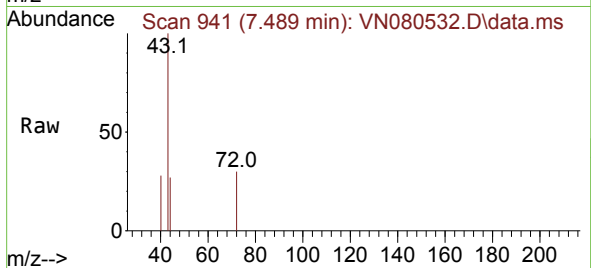
Tgt Ion: 84 Resp: 15915
Ion Ratio Lower Upper
84 100
49 100.7 79.7 119.5
51 30.2 25.2 37.8
86 62.7 53.3 79.9



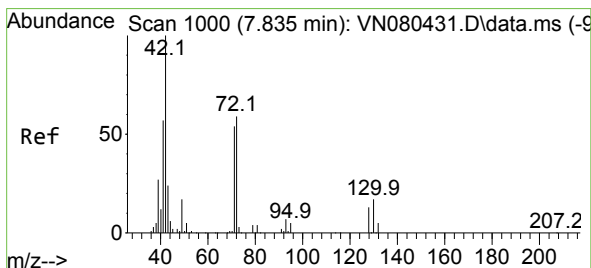
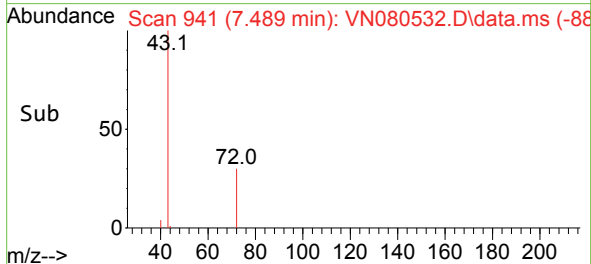
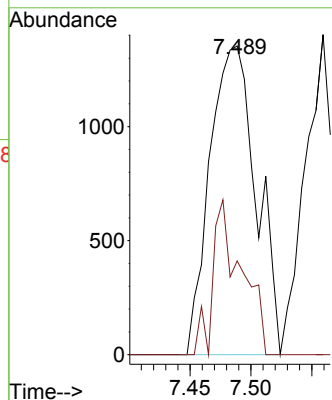


#25
2-Butanone
Concen: 3.404 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

Instrument :
MSVOA_N
ClientSampleId :

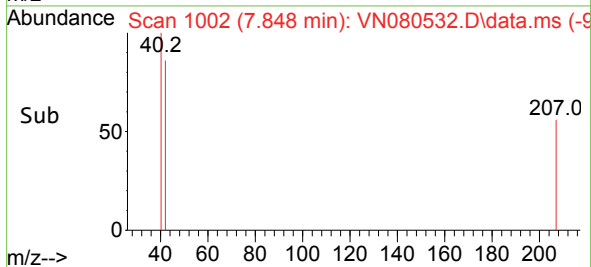
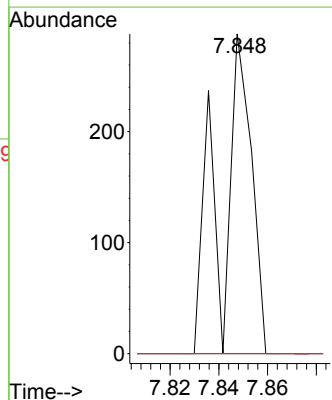
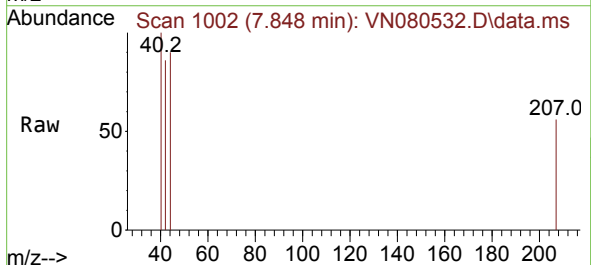


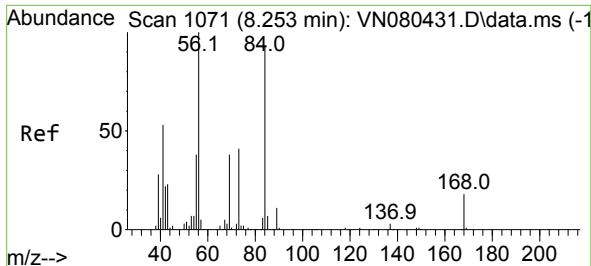
Tgt Ion: 43 Resp: 3588
Ion Ratio Lower Upper
43 100
72 30.4 30.2 45.2



#29
Tetrahydrofuran
Concen: 0.331 ug/l
RT: 7.848 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

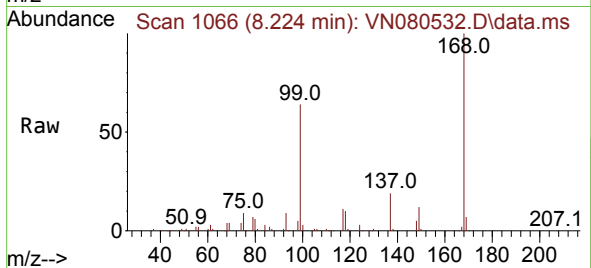
Tgt Ion: 42 Resp: 250
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 0.0 47.4 71.2#



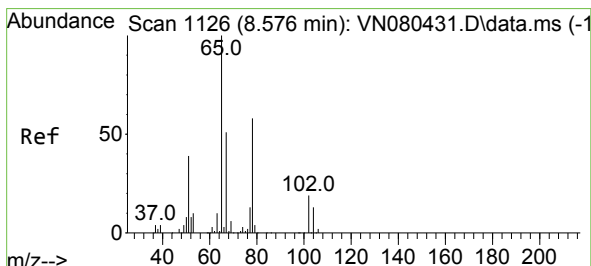
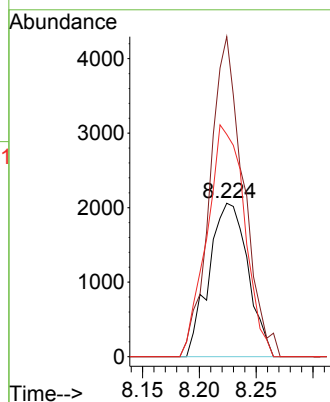
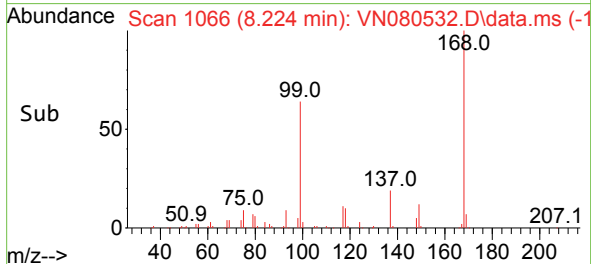


#31
Cyclohexane
Concen: 1.170 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

Instrument :
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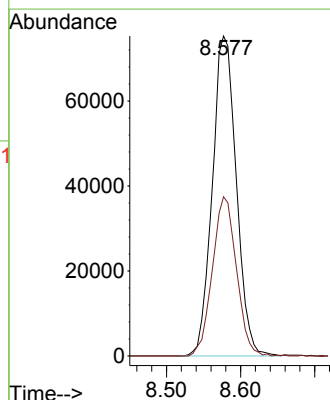
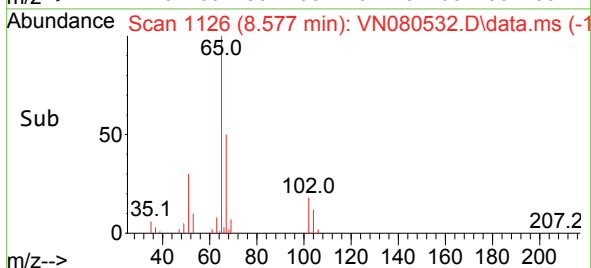
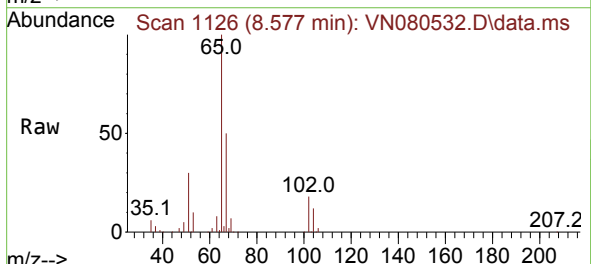


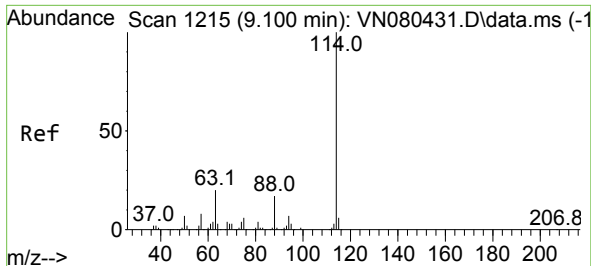
Tgt Ion: 56 Resp: 4909
Ion Ratio Lower Upper
56 100
69 208.5 26.8 40.2#
84 144.8 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 54.863 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

Tgt Ion: 65 Resp: 169307
Ion Ratio Lower Upper
65 100
67 49.9 0.0 106.6

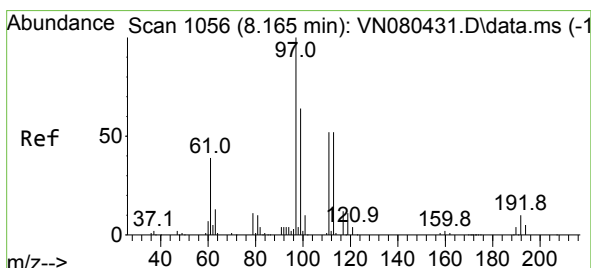
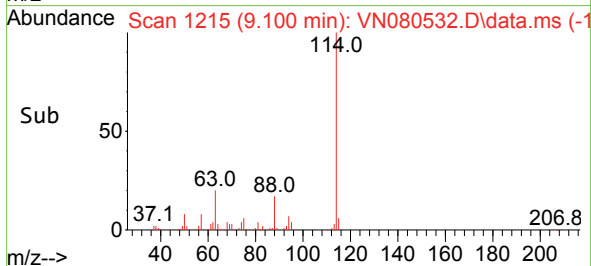
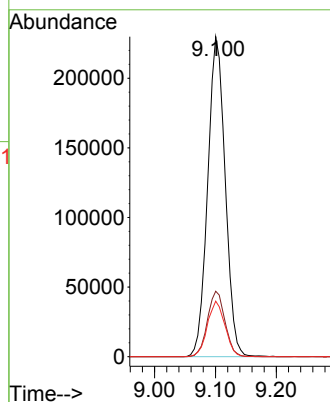
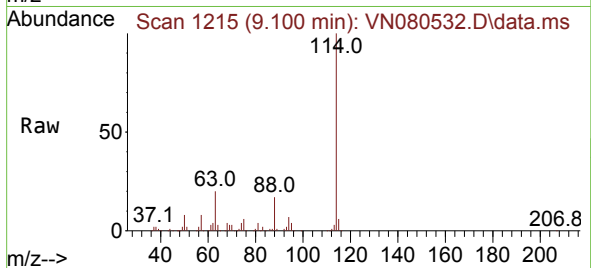




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

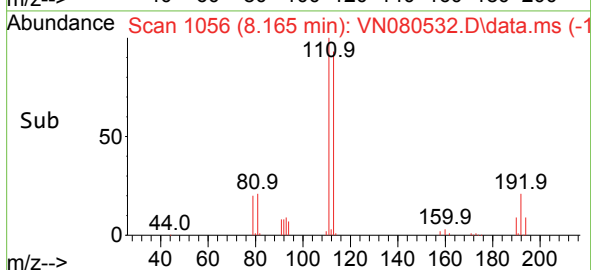
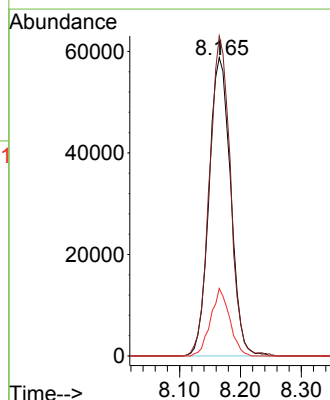
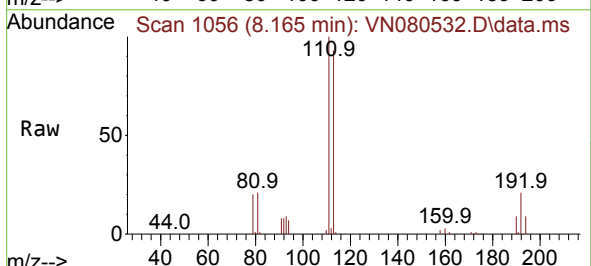
Instrument :
MSVOA_N
ClientSampleId :

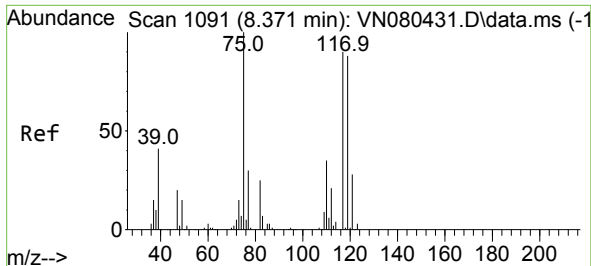
Tgt Ion:114 Resp: 459482
Ion Ratio Lower Upper
114 100
63 20.5 0.0 36.4
88 17.4 0.0 30.6



#35
Dibromofluoromethane
Concen: 49.674 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

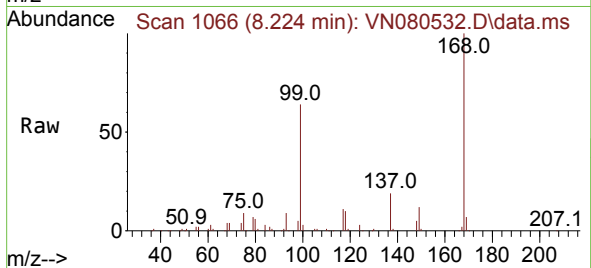
Tgt Ion:113 Resp: 144715
Ion Ratio Lower Upper
113 100
111 103.5 82.6 123.8
192 20.0 12.7 19.1#



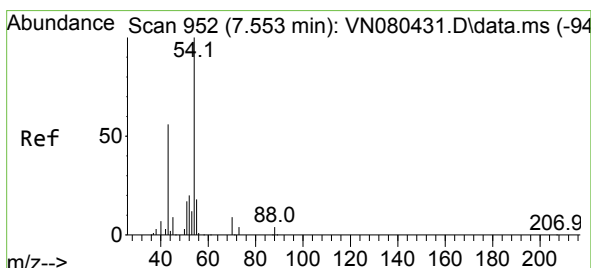
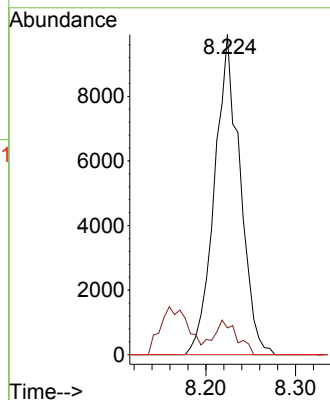
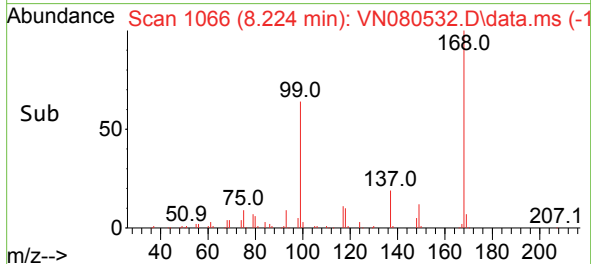


#36
1,1-Dichloropropene
Concen: 4.100 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

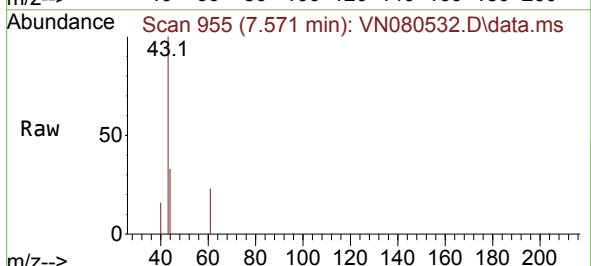
Instrument :
MSVOA_N
ClientSampleId :



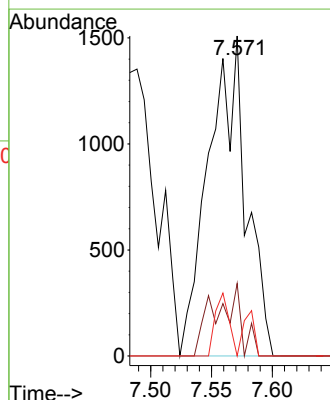
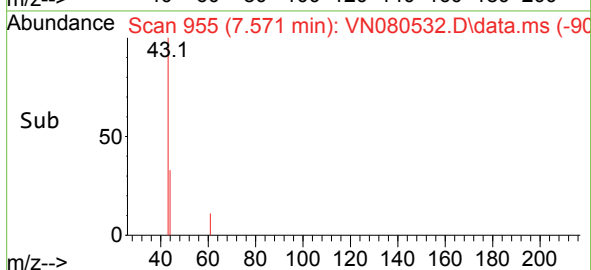
Tgt Ion: 75 Resp: 19532
Ion Ratio Lower Upper
75 100
110 8.4 19.1 57.3#
77 0.0 25.0 37.4#

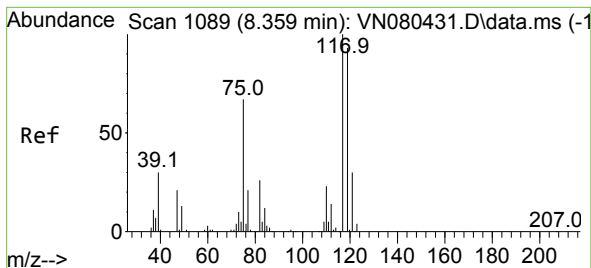


#37
Ethyl Acetate
Concen: 1.079 ug/l
RT: 7.571 min Scan# 955
Delta R.T. 0.018 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54



Tgt Ion: 43 Resp: 3219
Ion Ratio Lower Upper
43 100
61 0.0 13.2 19.8#
70 7.2 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 4.794 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

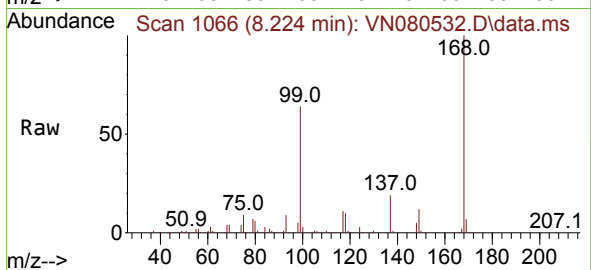
Lab File: VN080532.D

Acq: 19 Dec 2023 19:54

Instrument :

MSVOA_N

ClientSampleId :



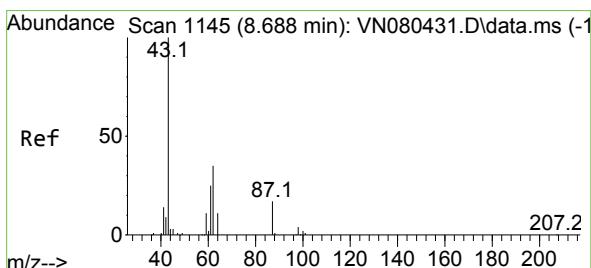
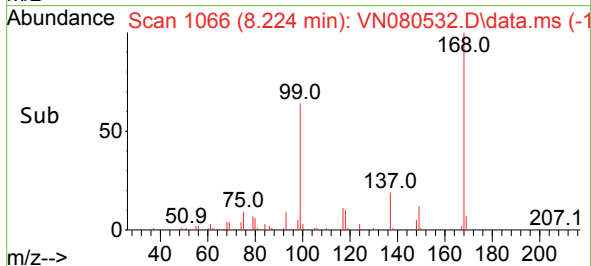
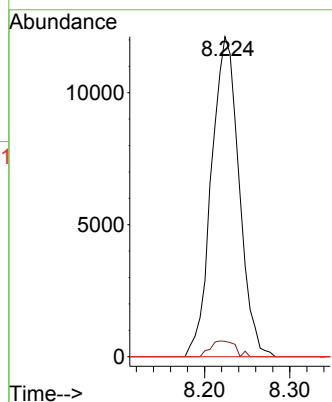
Tgt Ion:117 Resp: 27289

Ion Ratio Lower Upper

117 100

119 4.8 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 27.083 ug/l

RT: 8.689 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN080532.D

Acq: 19 Dec 2023 19:54

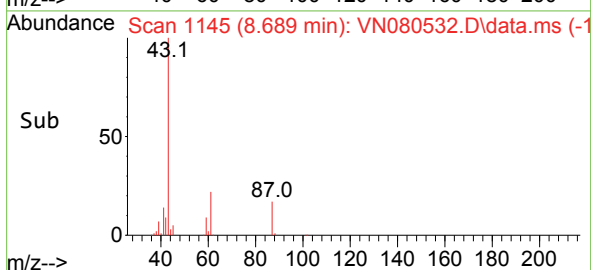
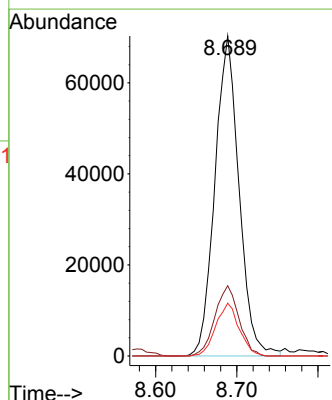
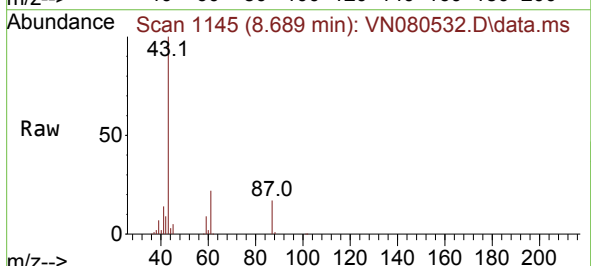
Tgt Ion: 43 Resp: 145252

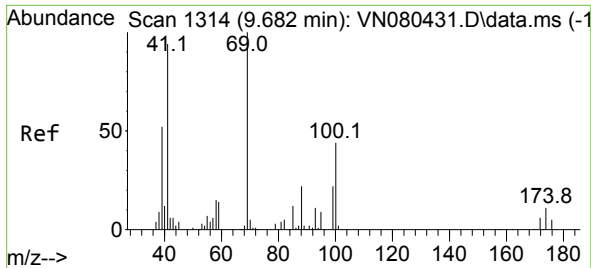
Ion Ratio Lower Upper

43 100

61 21.8 24.7 37.1#

87 16.0 14.6 21.8

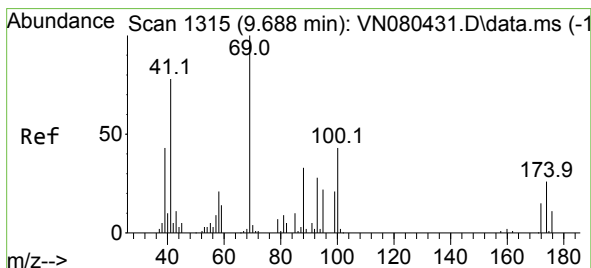
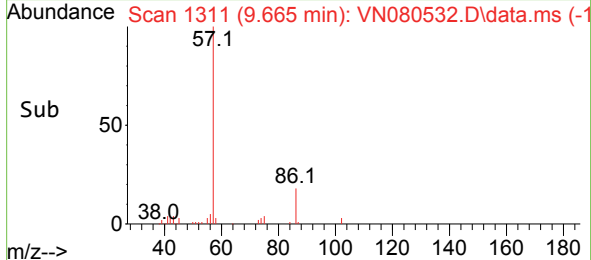
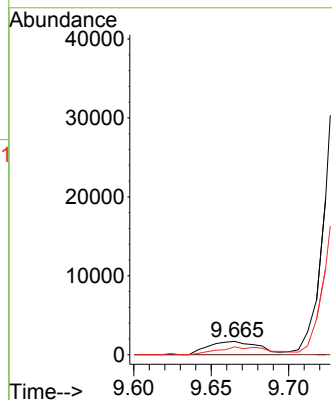
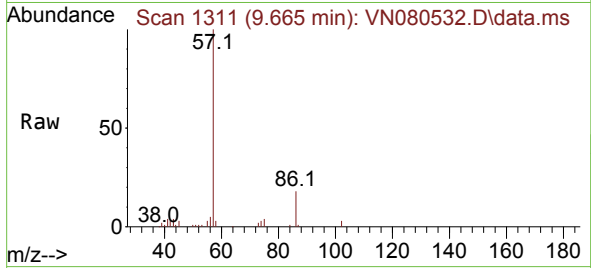




#48
Methyl methacrylate
Concen: 1.190 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.017 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

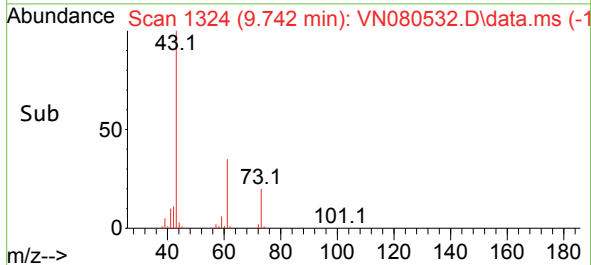
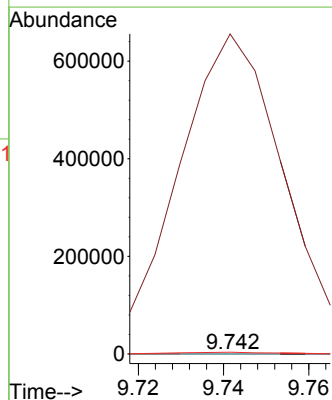
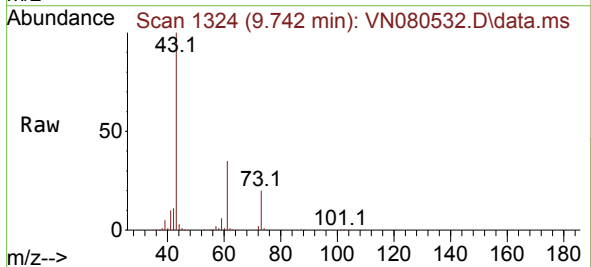
Instrument :
MSVOA_N
ClientSampleId :

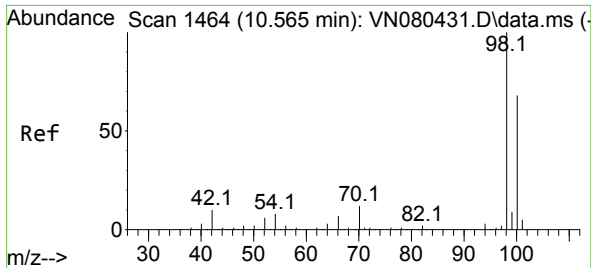
Tgt Ion: 41 Resp: 3810
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 59.5 54.6 81.8



#49
1,4-Dioxane
Concen: 1.257 ug/l
RT: 9.742 min Scan# 1324
Delta R.T. 0.053 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

Tgt Ion: 88 Resp: 61
Ion Ratio Lower Upper
88 100
43 1897845.9 17.0 25.6#
58 9721.3 47.0 70.4#

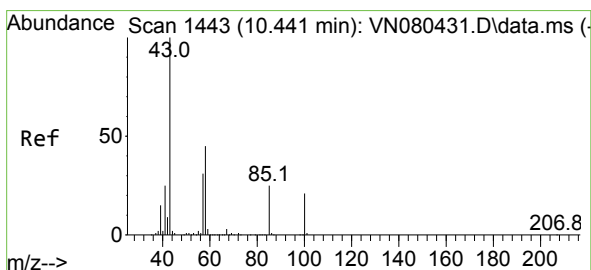
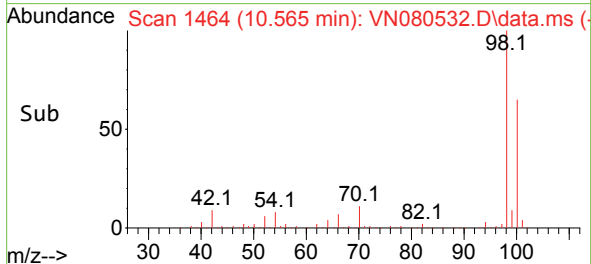
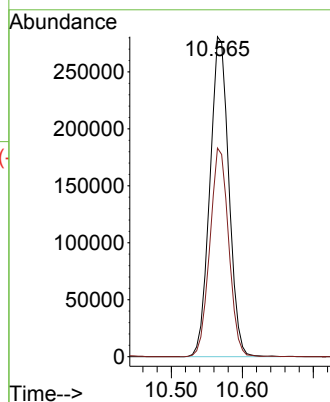
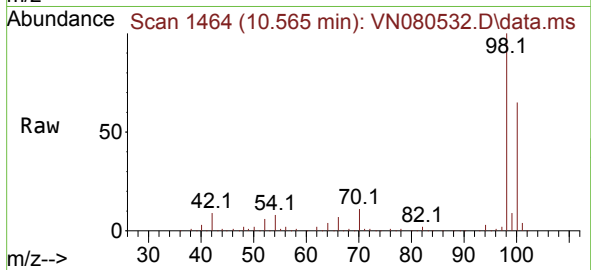




#50
Toluene-d8
Concen: 47.773 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

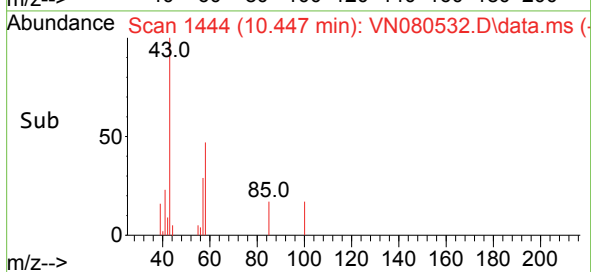
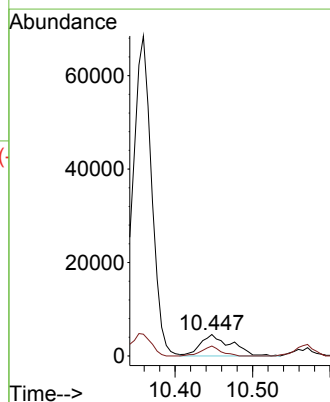
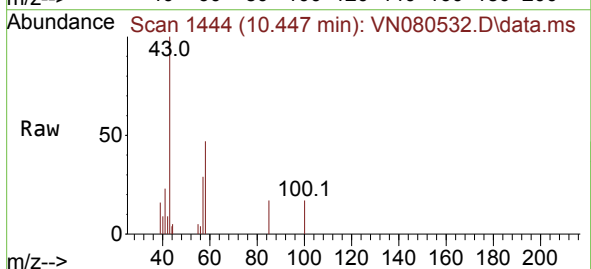
Instrument :
MSVOA_N
ClientSampleId :

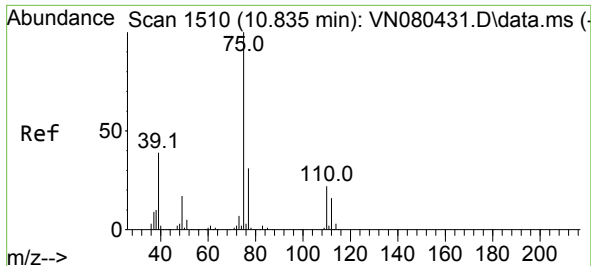
Tgt Ion: 98 Resp: 519056
Ion Ratio Lower Upper
98 100
100 64.8 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 4.292 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

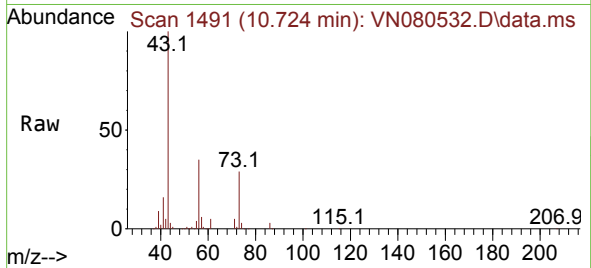
Tgt Ion: 43 Resp: 12679
Ion Ratio Lower Upper
43 100
58 28.6 36.6 54.8#



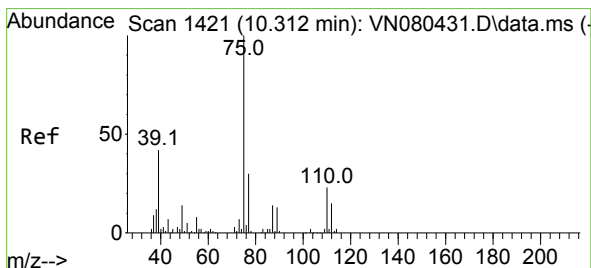
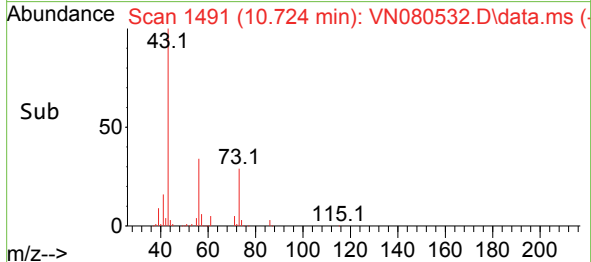
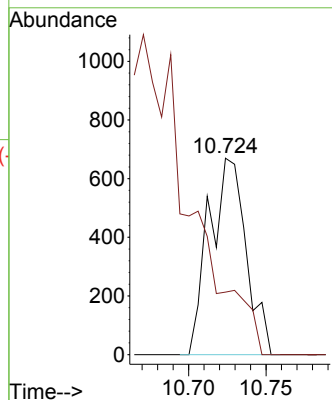


#53
t-1,3-Dichloropropene
Concen: 0.207 ug/l
RT: 10.724 min Scan# 1491
Delta R.T. -0.111 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

Instrument :
MSVOA_N
ClientSampleId :

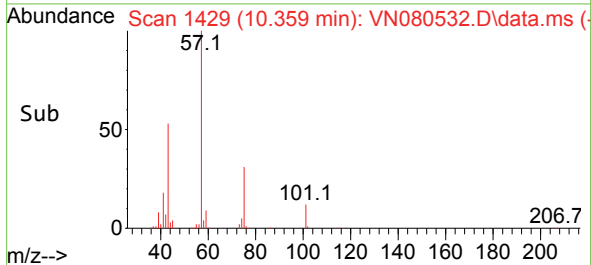
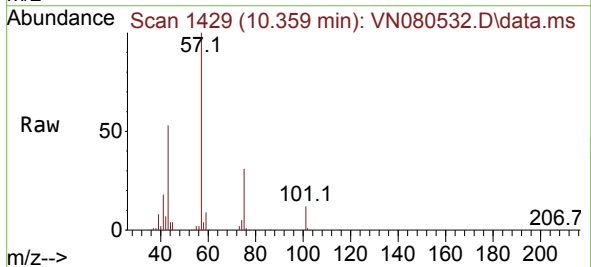
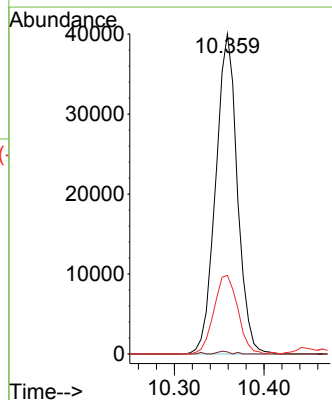


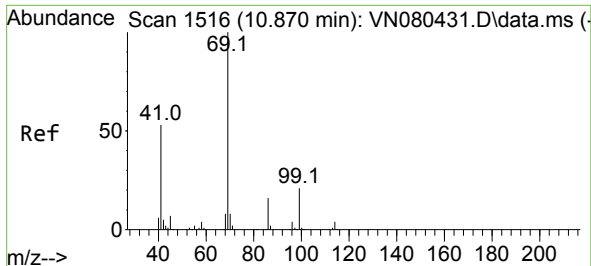
Tgt Ion: 75 Resp: 1114
Ion Ratio Lower Upper
75 100
77 31.8 25.4 38.0



#54
cis-1,3-Dichloropropene
Concen: 11.652 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

Tgt Ion: 75 Resp: 67000
Ion Ratio Lower Upper
75 100
77 0.6 26.1 39.1#
39 24.6 31.6 47.4#

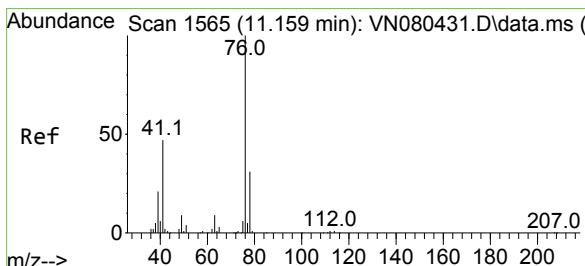
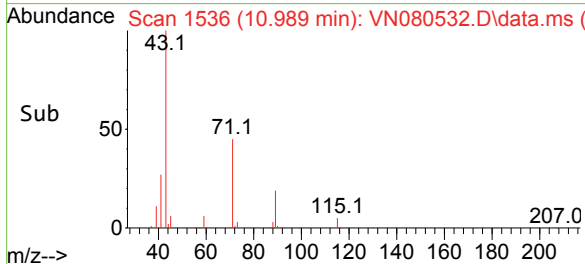
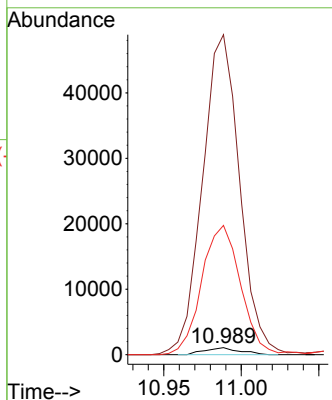
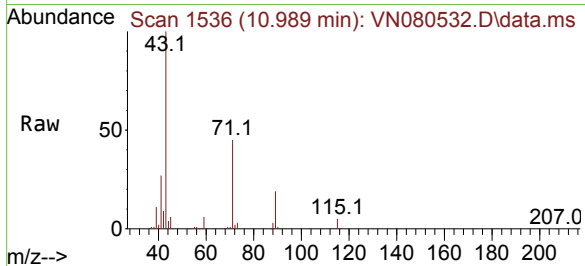




#56
Ethyl methacrylate
Concen: 0.484 ug/l
RT: 10.989 min Scan# 1536
Delta R.T. 0.118 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

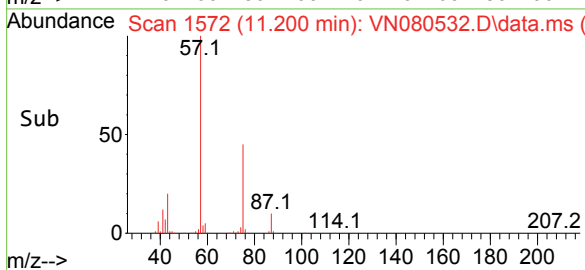
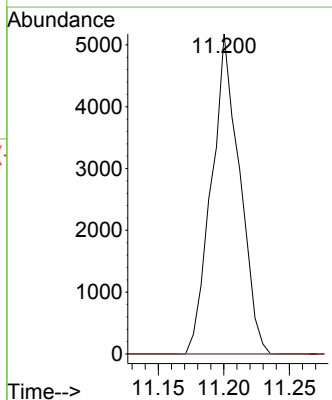
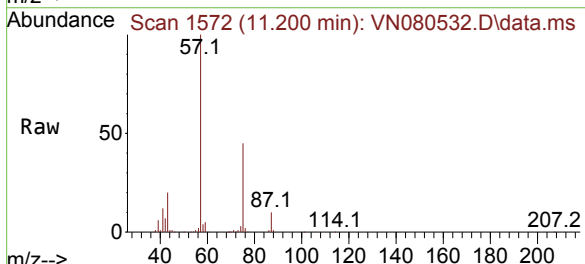
Instrument :
MSVOA_N
ClientSampleId :

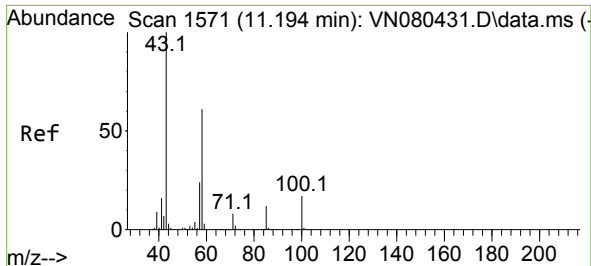
Tgt Ion: 69 Resp: 1676
Ion Ratio Lower Upper
69 100
41 4875.1 39.6 59.4#
39 2063.9 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.406 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.042 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

Tgt Ion: 76 Resp: 7709
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

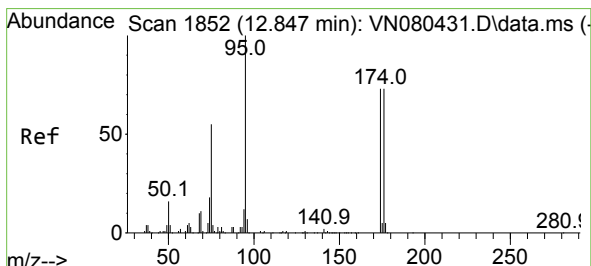
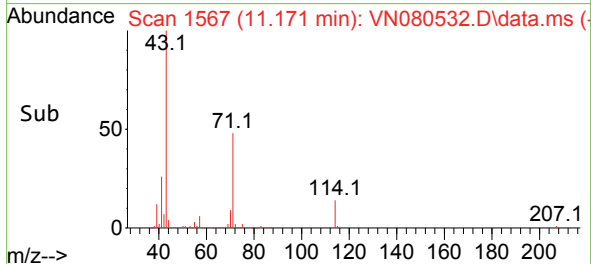
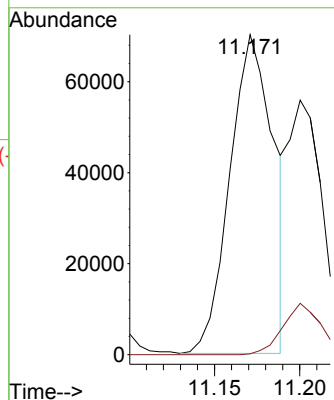
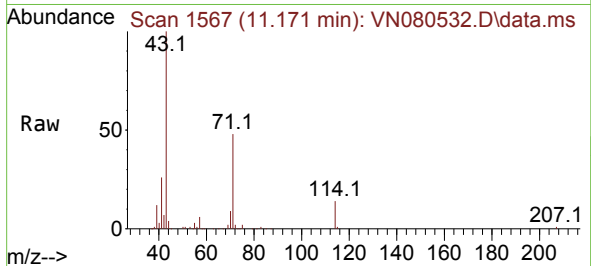




#59
2-Hexanone
Concen: 57.184 ug/l
RT: 11.171 min Scan# 1567
Delta R.T. -0.023 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

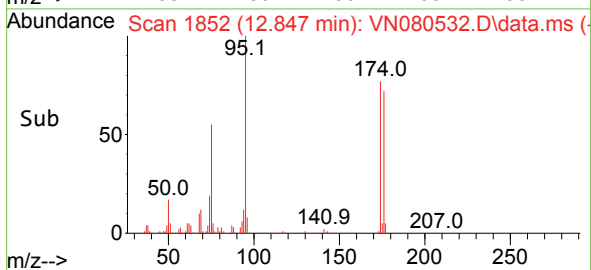
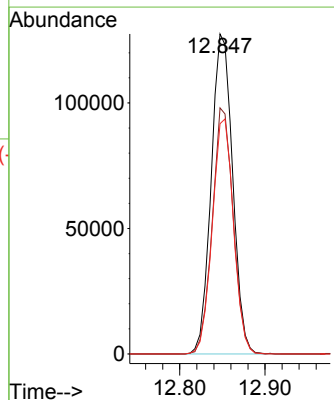
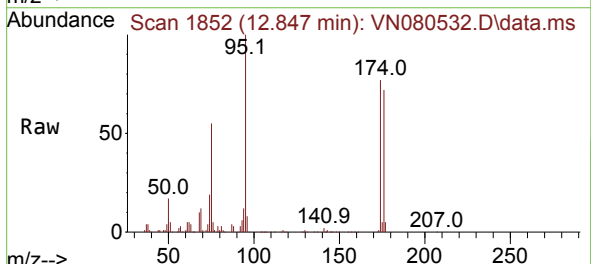
Instrument :
MSVOA_N
ClientSampleId :

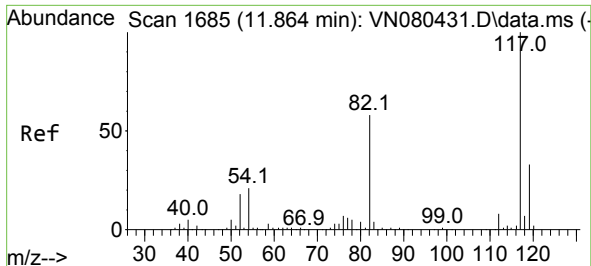
Tgt Ion: 43 Resp: 124697
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 53.825 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

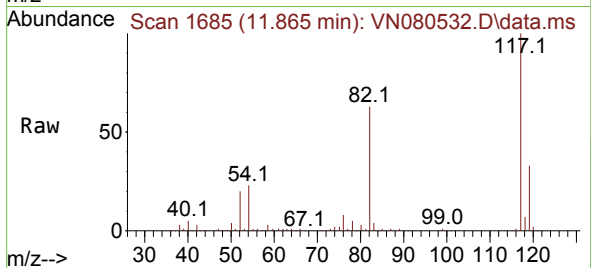
Tgt Ion: 95 Resp: 222067
Ion Ratio Lower Upper
95 100
174 75.5 0.0 143.8
176 72.9 0.0 135.8



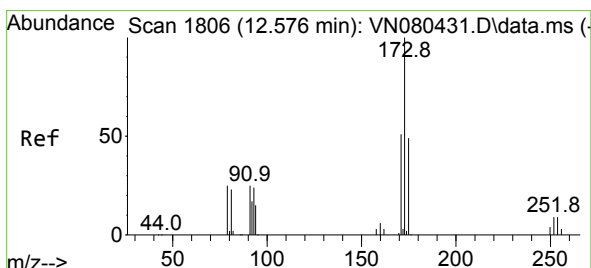
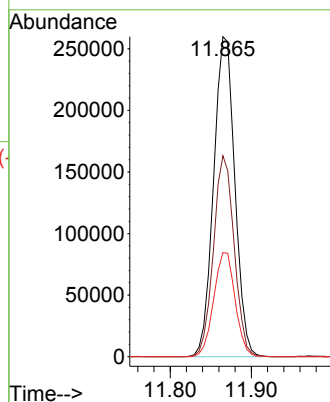
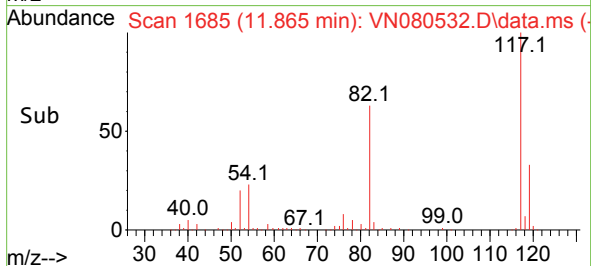


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

Instrument :
MSVOA_N
ClientSampleId :

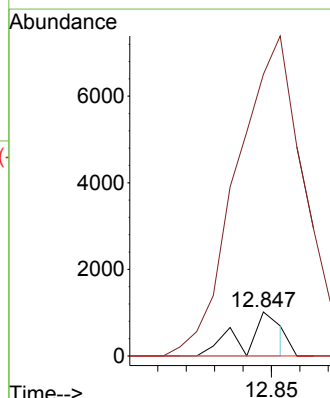
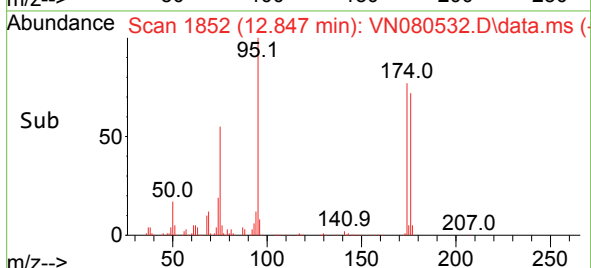
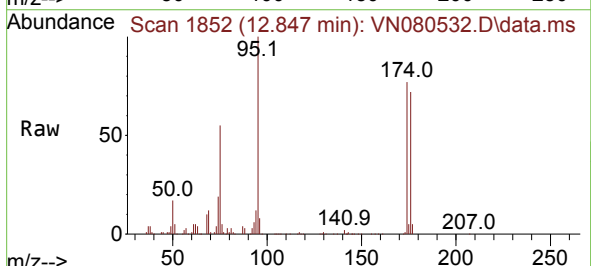


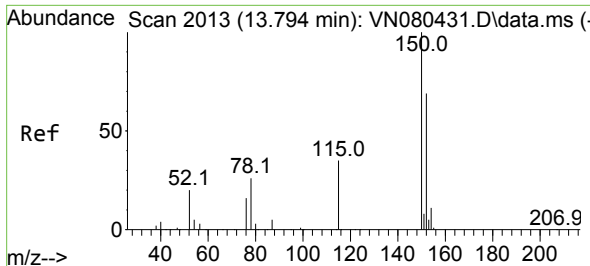
Tgt Ion:117 Resp: 472189
Ion Ratio Lower Upper
117 100
82 62.8 44.0 66.0
119 32.6 25.6 38.4



#71
Bromoform
Concen: 0.305 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

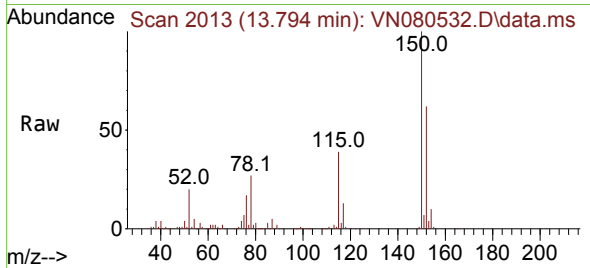
Tgt Ion:173 Resp: 916
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.0 0.0



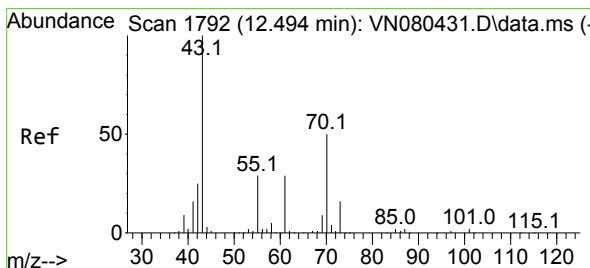
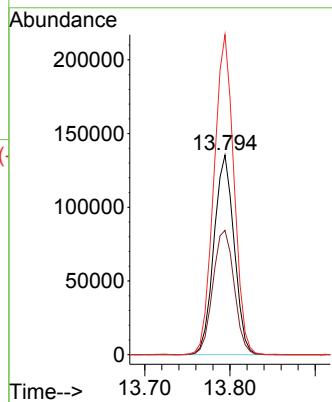
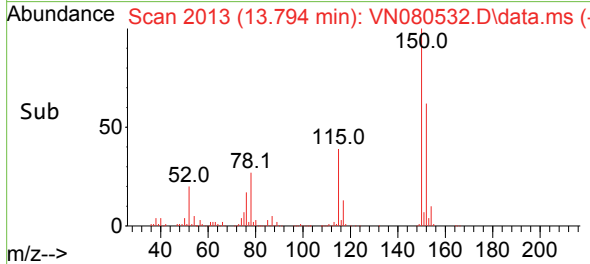


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

Instrument :
MSVOA_N
ClientSampleId :

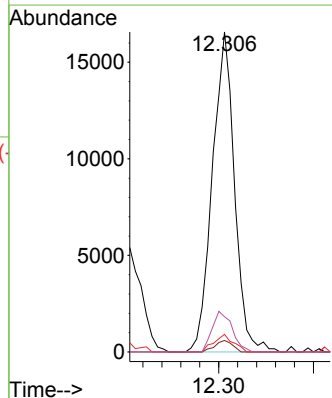
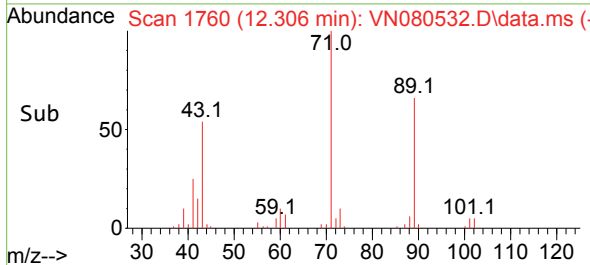
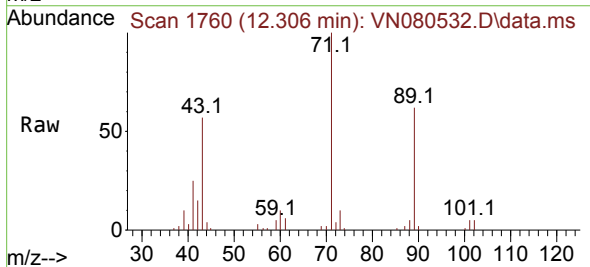


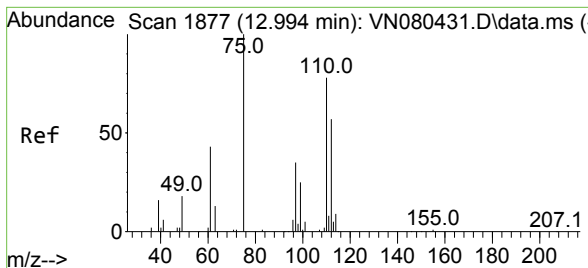
Tgt Ion:152 Resp: 222998
Ion Ratio Lower Upper
152 100
115 65.6 32.3 96.8
150 159.0 0.0 355.8



#74
N-ethyl acetate
Concen: 5.157 ug/l
RT: 12.306 min Scan# 1760
Delta R.T. -0.188 min
Lab File: VN080532.D
Acq: 19 Dec 2023 19:54

Tgt Ion: 43 Resp: 26976
Ion Ratio Lower Upper
43 100
70 2.8 43.4 65.2#
55 4.8 21.4 32.0#
61 11.4 22.8 34.2#





#76

1,2,3-Trichloropropane

Concen: 27.238 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN080532.D

Acq: 19 Dec 2023 19:54

Instrument :

MSVOA_N

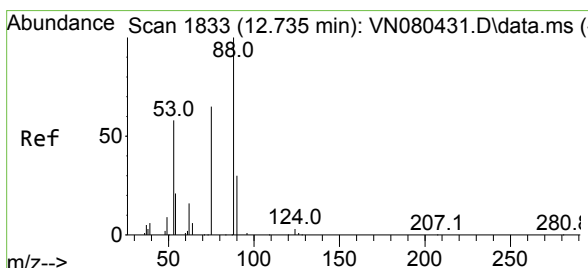
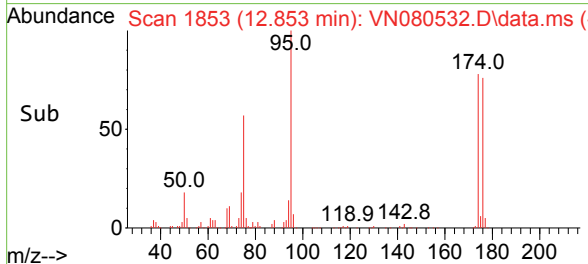
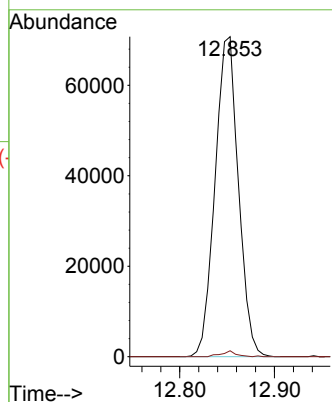
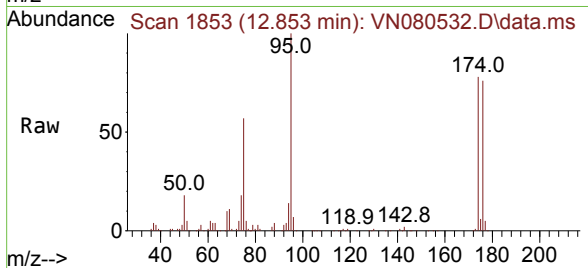
ClientSampleId :

Tgt Ion: 75 Resp: 121174

Ion Ratio Lower Upper

75 100

77 1.2 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.515 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.118 min

Lab File: VN080532.D

Acq: 19 Dec 2023 19:54

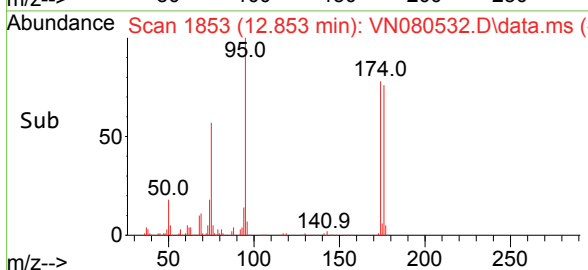
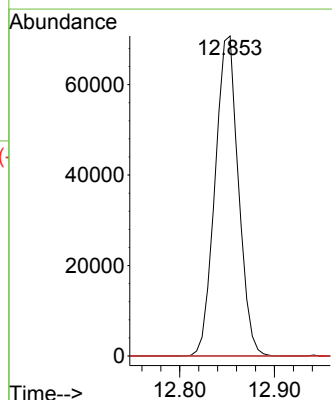
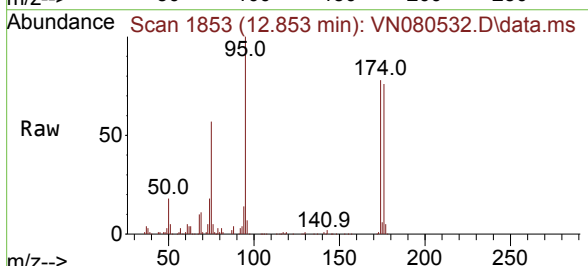
Tgt Ion: 75 Resp: 121174

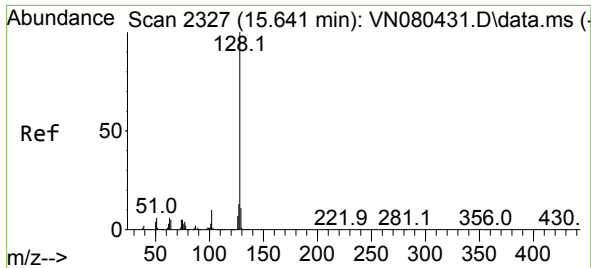
Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

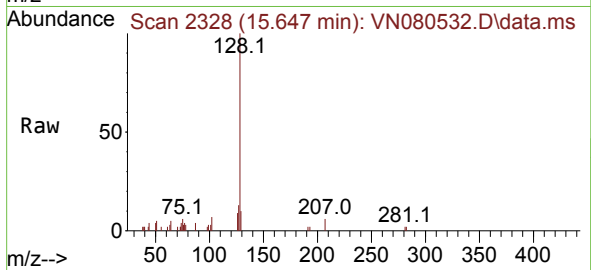
89 0.0 38.8 58.2#





#95
 Naphthalene
 Concen: 1.547 ug/l
 RT: 15.647 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN080532.D
 Acq: 19 Dec 2023 19:54

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	128	Resp:	19225
Ion Ratio	Lower	Upper	
128	100		
127	14.4	10.0	15.0
129	11.4	8.7	13.1

