

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110623\
 Data File : VN079922.D
 Acq On : 06 Nov 2023 14:57
 Operator : JC\MD
 Sample : PB156885ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 07 04:48:19 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 02 05:49:08 2023
 Response via : Initial Calibration

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

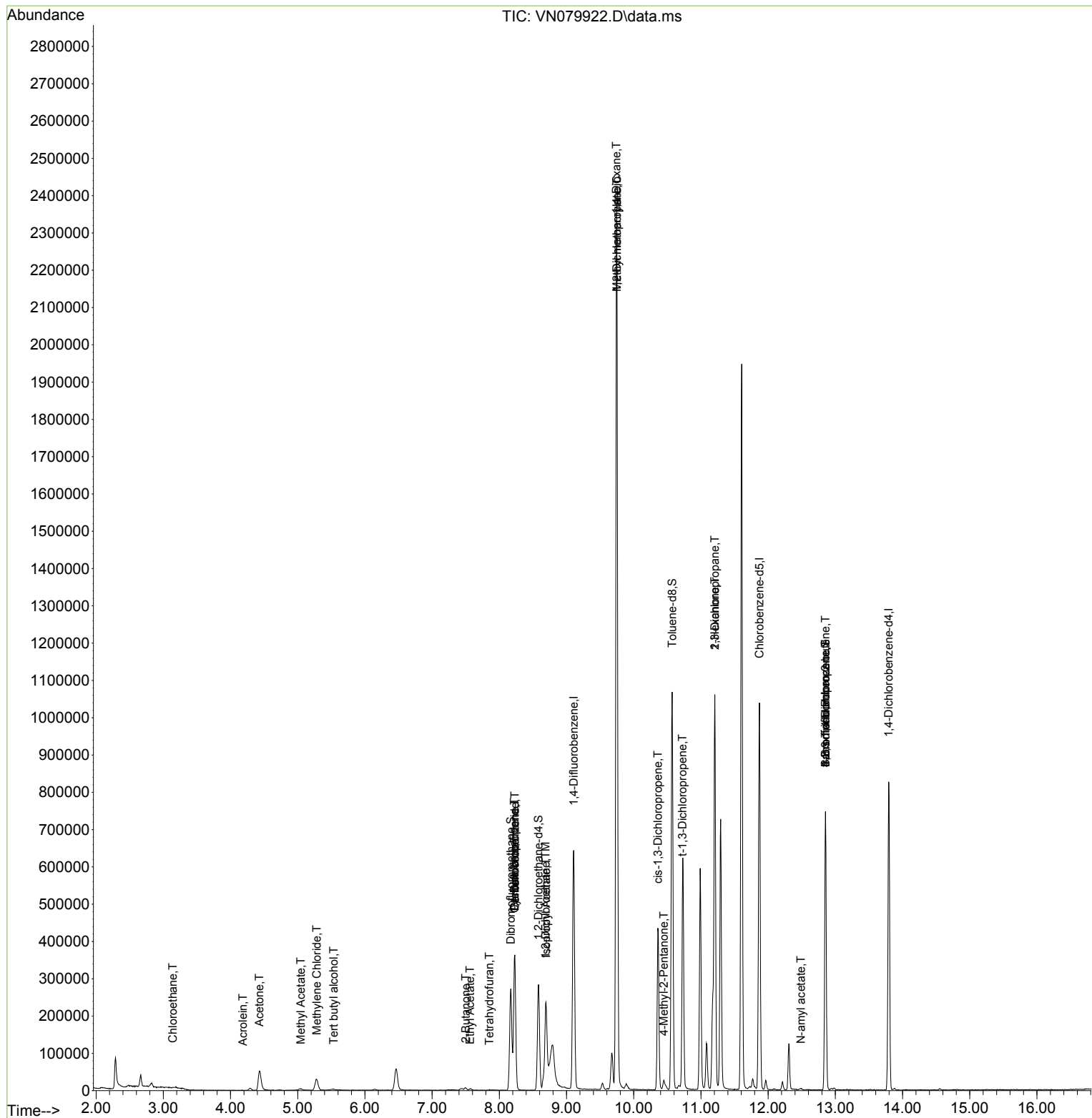
Internal Standards						
1) Pentafluorobenzene	8.230	168	251845	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	544488	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	573159	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	217719	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	233008	60.728	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 121.460%			
35) Dibromofluoromethane	8.171	113	193555	50.226	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.460%			
50) Toluene-d8	10.571	98	726175	51.187	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.380%			
62) 4-Bromofluorobenzene	12.853	95	250641	53.271	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 106.540%			
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	1646	Below Cal	#	84
6) Chloroethane	3.142	64	812	0.259	ug/l #	43
11) Tert butyl alcohol	5.536	59	3805	7.768	ug/l #	77
13) Acrolein	4.183	56	134	2.866	ug/l #	16
16) Acetone	4.430	43	101551	75.348	ug/l #	87
18) Methyl Acetate	5.048	43	8245	1.279	ug/l #	60
20) Methylene Chloride	5.283	84	23014	6.767	ug/l	89
25) 2-Butanone	7.500	43	10831	5.488	ug/l #	70
29) Tetrahydrofuran	7.853	42	617	0.481	ug/l #	32
31) Cyclohexane	8.224	56	7161	1.412	ug/l #	63
36) 1,1-Dichloropropene	8.224	75	22857	4.154	ug/l #	48
37) Ethyl Acetate	7.565	43	6306	1.250	ug/l #	83
38) Carbon Tetrachloride	8.230	117	27383	4.938	ug/l #	17
42) 1,2-Dichloroethane	8.688	62	1680	0.292	ug/l #	73
43) Isopropyl Acetate	8.694	43	299481	33.841	ug/l #	74
45) 1,2-Dichloropropane	9.747	63	2951	0.701	ug/l #	45
48) Methyl methacrylate	9.747	41	220281	56.828	ug/l #	28
49) 1,4-Dioxane	9.741	88	345	5.037	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	23735	4.764	ug/l #	71
53) t-1,3-Dichloropropene	10.724	75	1541	0.256	ug/l #	1
54) cis-1,3-Dichloropropene	10.359	75	74579	11.380	ug/l #	72
57) 1,3-Dichloropropane	11.206	76	10510	1.517	ug/l #	42
59) 2-Hexanone	11.206	43	130891	34.341	ug/l #	48
71) Bromoform	12.853	173	1871	0.588	ug/l #	1
74) N-amyl acetate	12.488	43	1519	0.211	ug/l #	40
76) 1,2,3-Trichloropropane	12.853	75	137808	26.961	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	137808	73.354	ug/l #	15

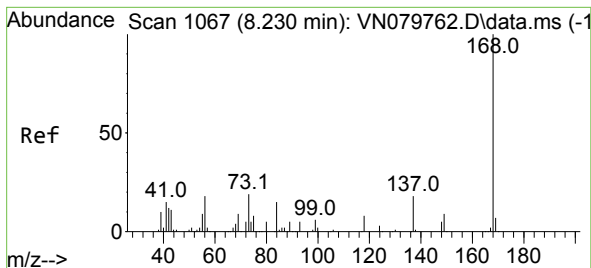
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Nov 02 05:49:08 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. 0.001 min

Lab File: VN079922.D

Acq: 06 Nov 2023 14:57

Instrument :

MSVOA_N

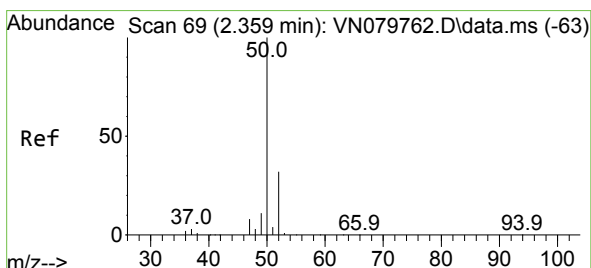
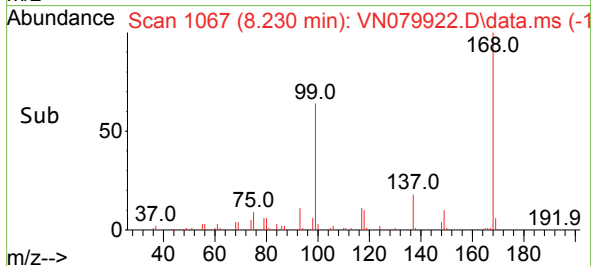
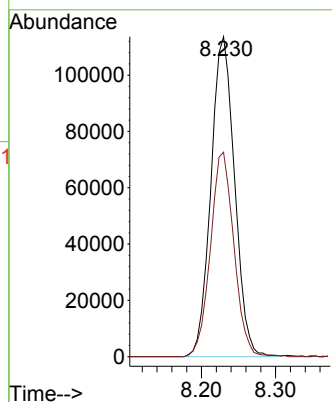
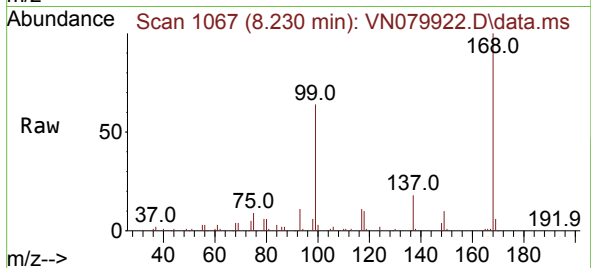
ClientSampleId :

Tgt Ion:168 Resp: 251845

Ion Ratio Lower Upper

168 100

99 63.9 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN079922.D

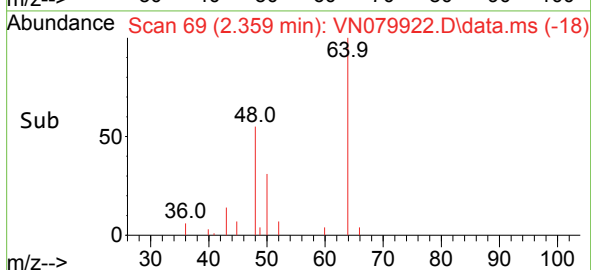
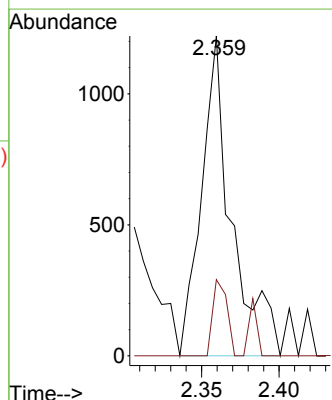
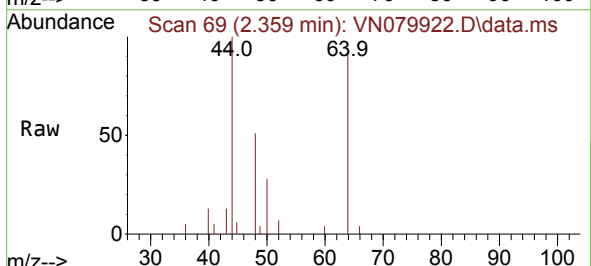
Acq: 06 Nov 2023 14:57

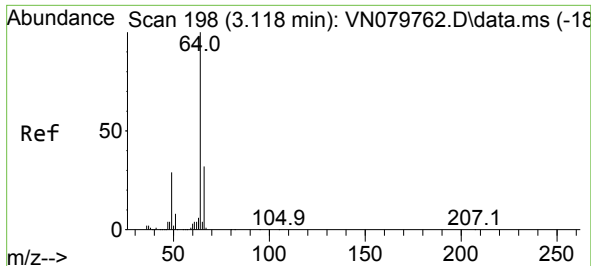
Tgt Ion: 50 Resp: 1646

Ion Ratio Lower Upper

50 100

52 23.8 26.5 39.7#

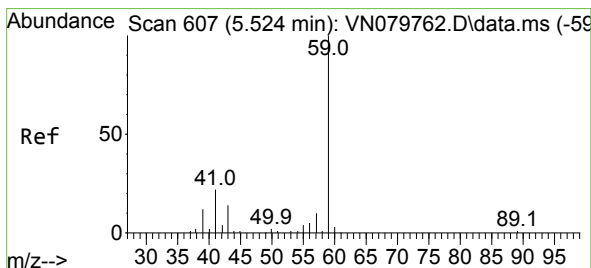
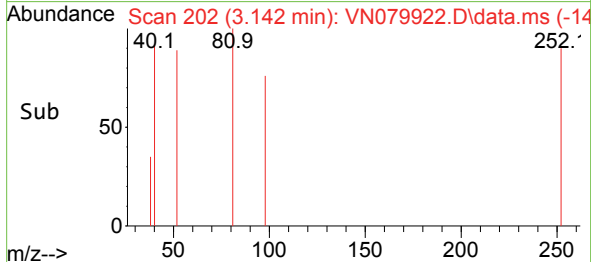
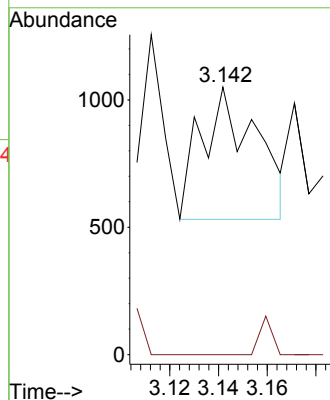
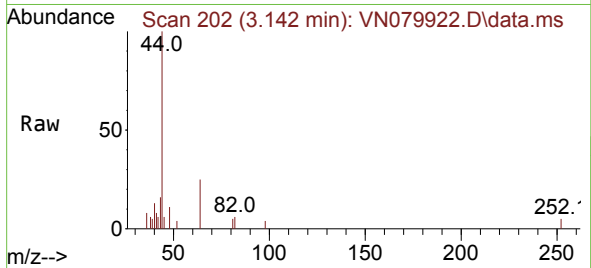




#6
Chloroethane
Concen: 0.259 ug/l
RT: 3.142 min Scan# 202
Delta R.T. 0.024 min
Lab File: VN079922.D
Acq: 06 Nov 2023 14:57

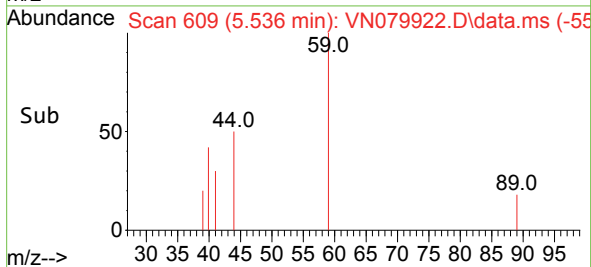
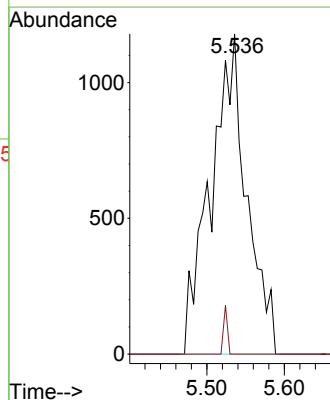
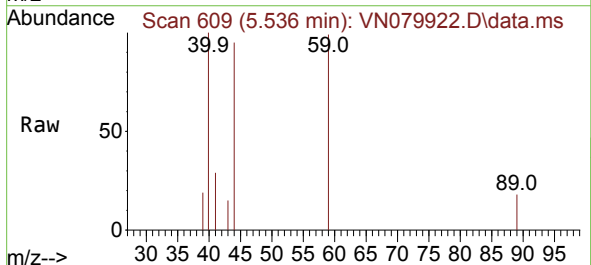
Instrument :
MSVOA_N
ClientSampleId :

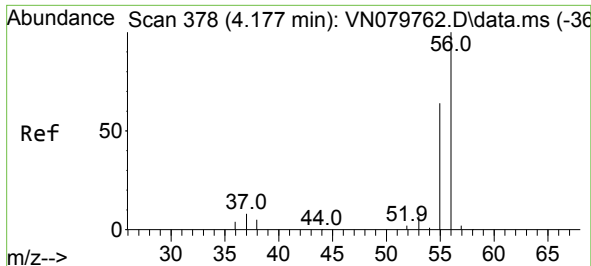
Tgt Ion: 64 Resp: 812
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 7.768 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.018 min
Lab File: VN079922.D
Acq: 06 Nov 2023 14:57

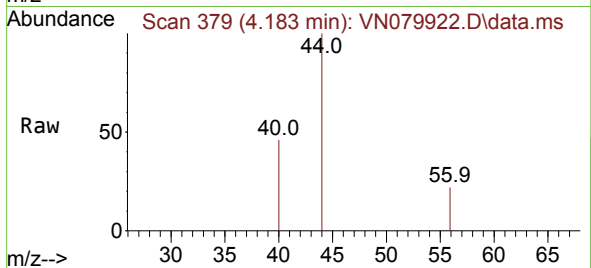
Tgt Ion: 59 Resp: 3805
Ion Ratio Lower Upper
59 100
57 1.7 8.2 12.4#



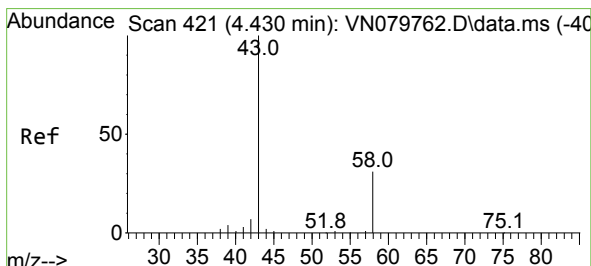
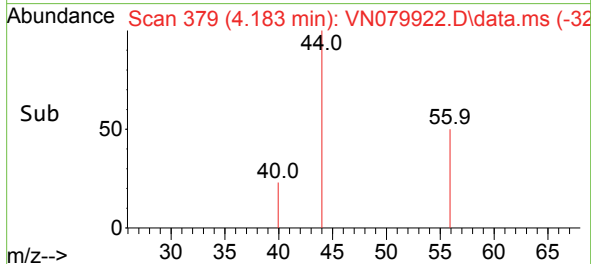
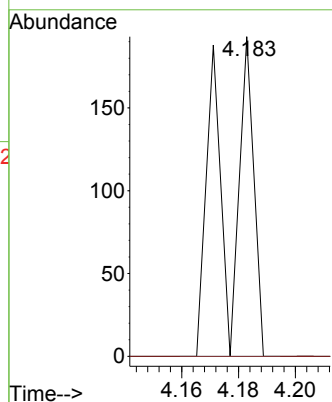


#13
Acrolein
Concen: 2.866 ug/l
RT: 4.183 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN079922.D
Acq: 06 Nov 2023 14:57

Instrument :
MSVOA_N
ClientSampleId :

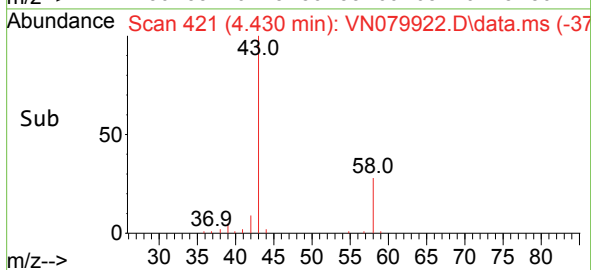
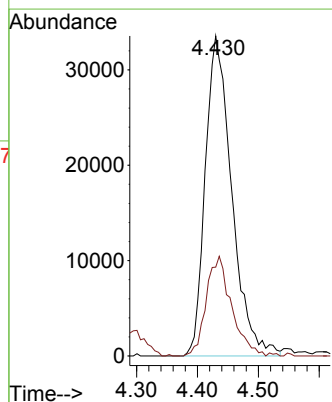
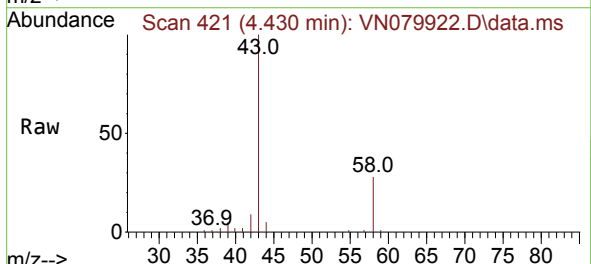


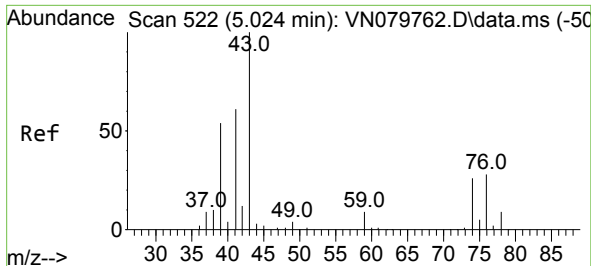
Tgt Ion: 56 Resp: 134
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#16
Acetone
Concen: 75.348 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.000 min
Lab File: VN079922.D
Acq: 06 Nov 2023 14:57

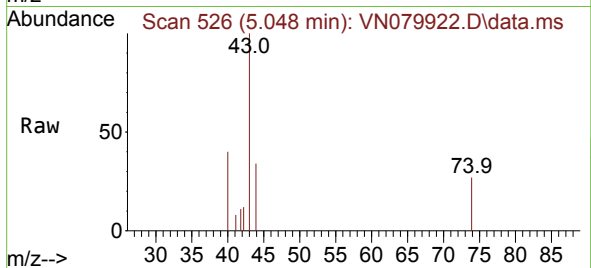
Tgt Ion: 43 Resp: 101551
Ion Ratio Lower Upper
43 100
58 27.7 28.0 42.0#



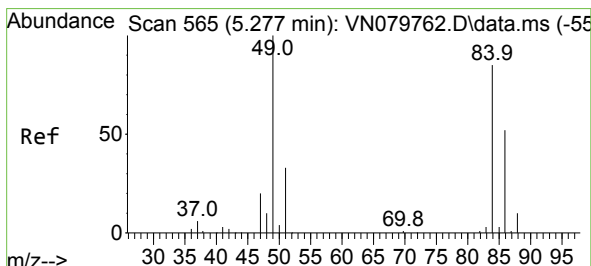
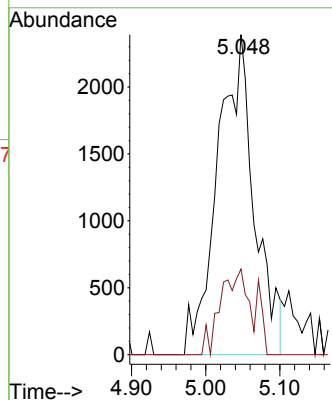
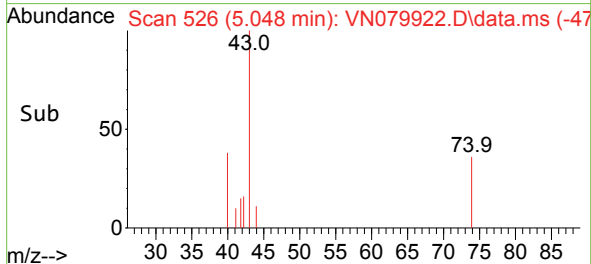


#18
Methyl Acetate
Concen: 1.279 ug/l
RT: 5.048 min Scan# 51
Delta R.T. 0.024 min
Lab File: VN079922.D
Acq: 06 Nov 2023 14:57

Instrument :
MSVOA_N
ClientSampleId :

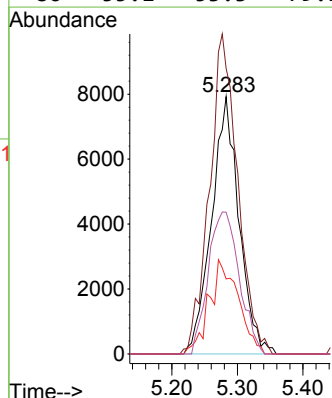
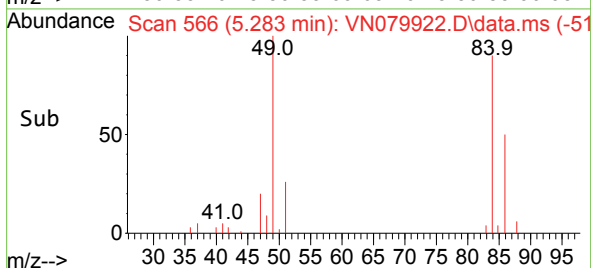
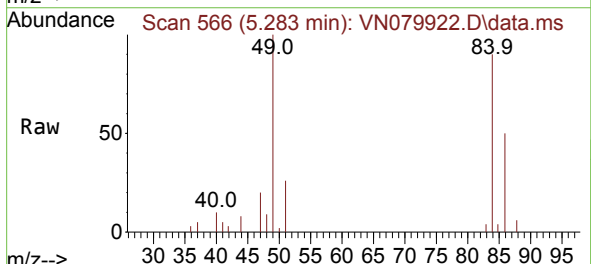


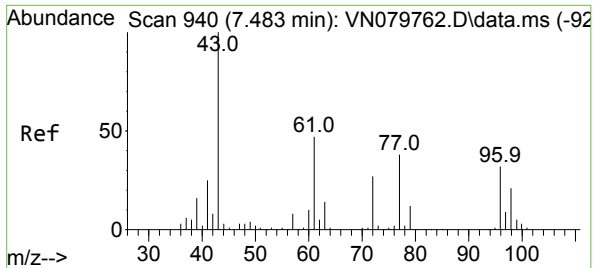
Tgt Ion: 43 Resp: 8245
Ion Ratio Lower Upper
43 100
74 10.4 26.2 39.4#



#20
Methylene Chloride
Concen: 6.767 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.012 min
Lab File: VN079922.D
Acq: 06 Nov 2023 14:57

Tgt Ion: 84 Resp: 23014
Ion Ratio Lower Upper
84 100
49 111.1 79.7 119.5
51 29.2 25.2 37.8
86 55.1 53.3 79.9

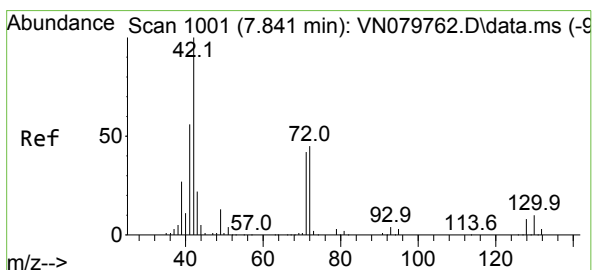
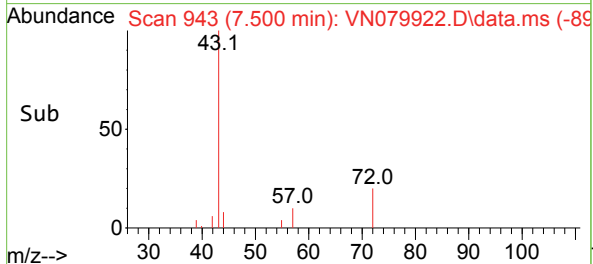
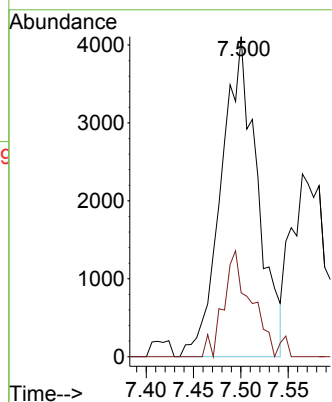
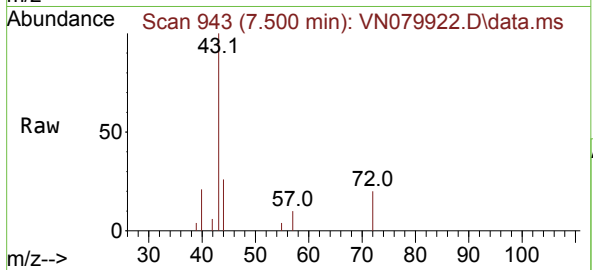




#25
2-Butanone
Concen: 5.488 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN079922.D
Acq: 06 Nov 2023 14:57

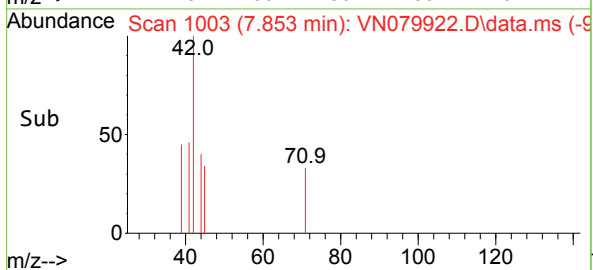
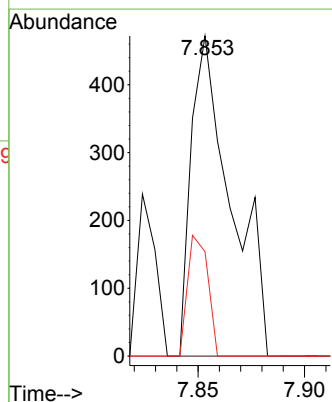
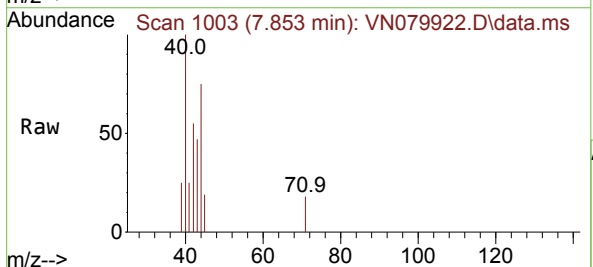
Instrument :
MSVOA_N
ClientSampleId :

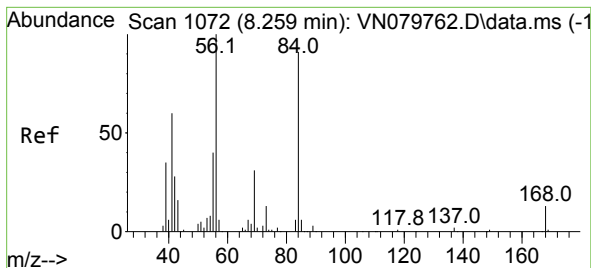
Tgt Ion: 43 Resp: 10831
Ion Ratio Lower Upper
43 100
72 19.9 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.481 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.012 min
Lab File: VN079922.D
Acq: 06 Nov 2023 14:57

Tgt Ion: 42 Resp: 617
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 19.0 47.4 71.2#





#31

Cyclohexane

Concen: 1.412 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.035 min

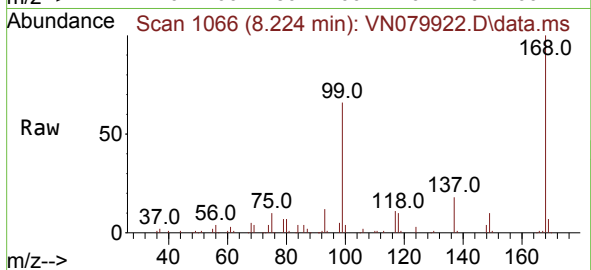
Lab File: VN079922.D

Acq: 06 Nov 2023 14:57

Instrument :

MSVOA_N

ClientSampleId :



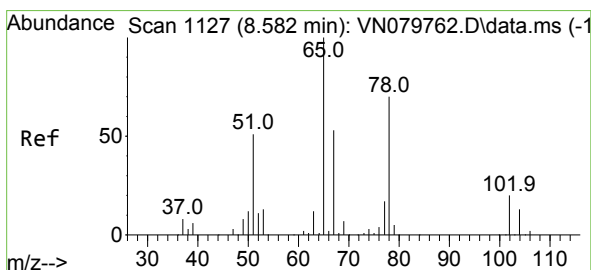
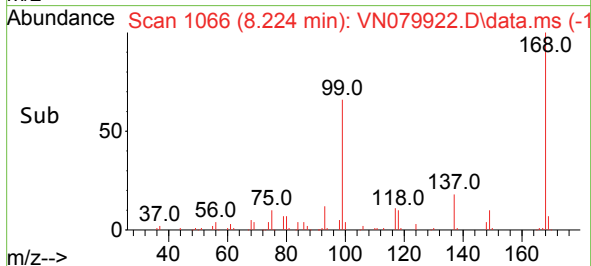
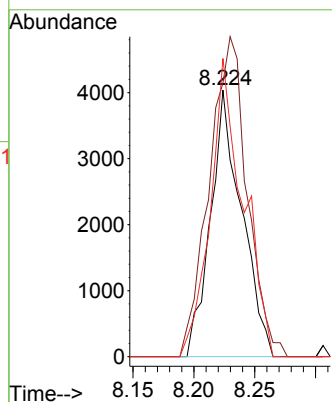
Tgt Ion: 56 Resp: 7161

Ion Ratio Lower Upper

56 100

69 102.6 26.8 40.2#

84 111.9 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 60.728 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079922.D

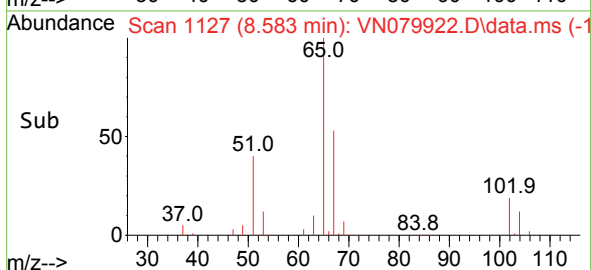
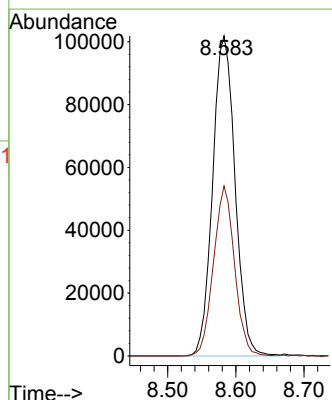
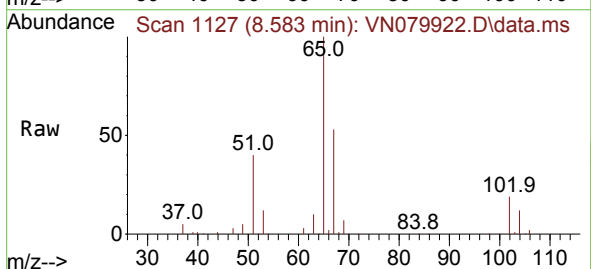
Acq: 06 Nov 2023 14:57

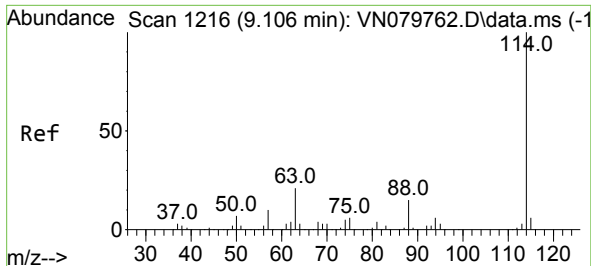
Tgt Ion: 65 Resp: 233008

Ion Ratio Lower Upper

65 100

67 49.9 0.0 106.6

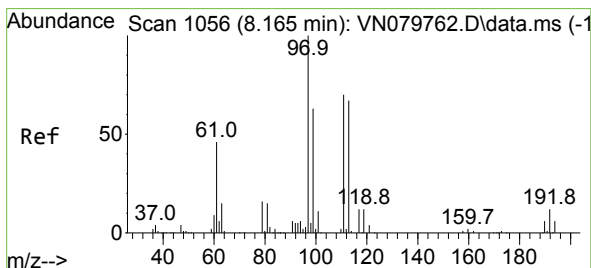
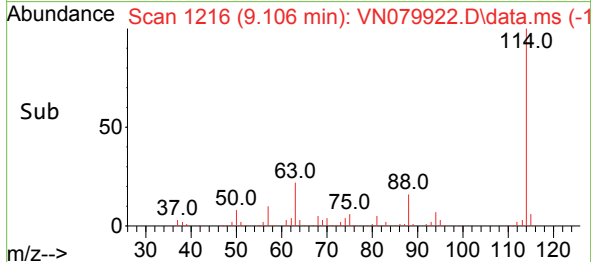
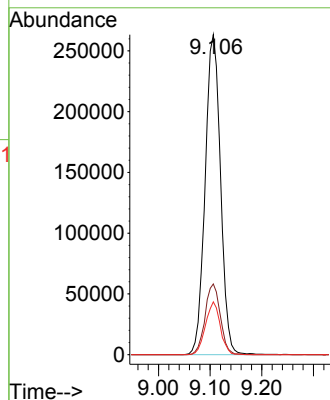
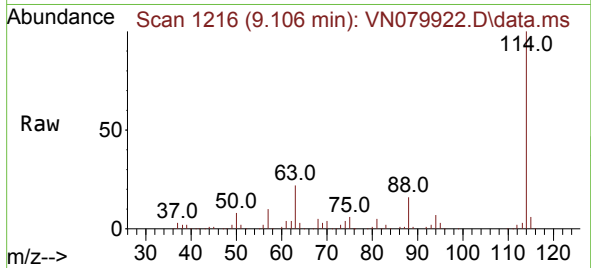




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN079922.D
Acq: 06 Nov 2023 14:57

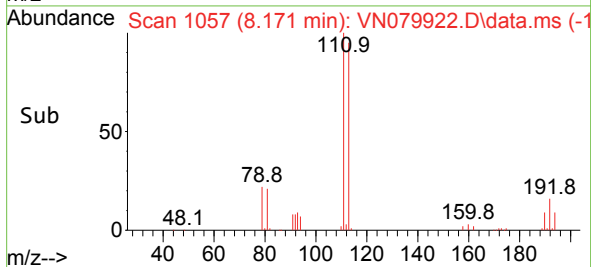
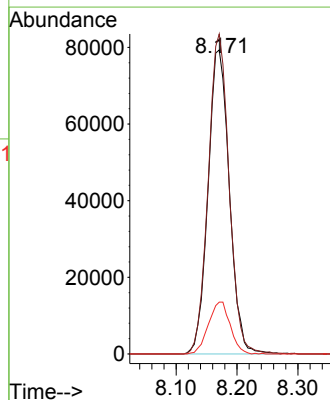
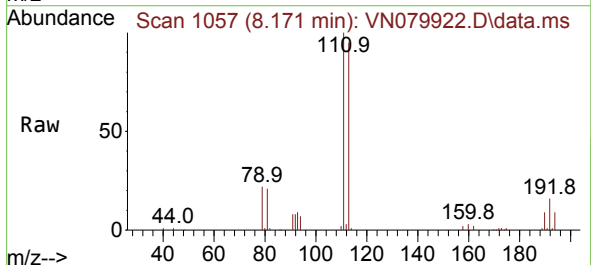
Instrument :
MSVOA_N
ClientSampleId :

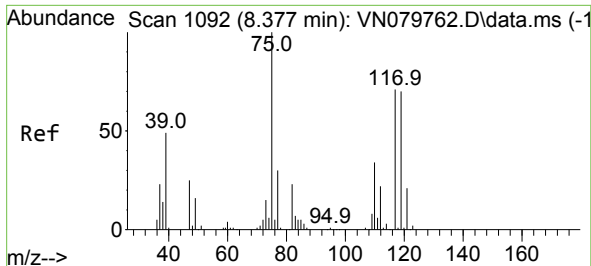
Tgt Ion:114 Resp: 544488
Ion Ratio Lower Upper
114 100
63 22.1 0.0 36.4
88 16.5 0.0 30.6



#35
Dibromofluoromethane
Concen: 50.226 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN079922.D
Acq: 06 Nov 2023 14:57

Tgt Ion:113 Resp: 193555
Ion Ratio Lower Upper
113 100
111 103.2 82.6 123.8
192 17.5 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.154 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

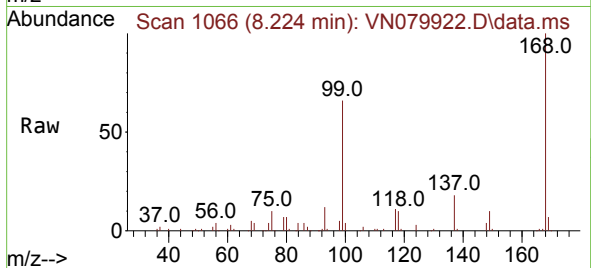
Lab File: VN079922.D

Acq: 06 Nov 2023 14:57

Instrument :

MSVOA_N

ClientSampleId :



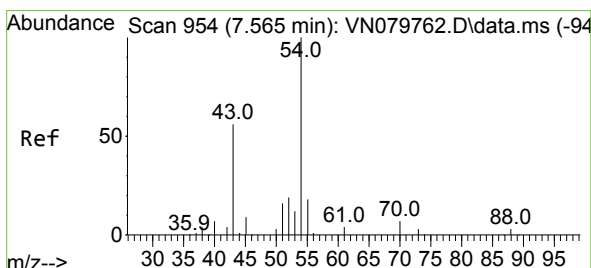
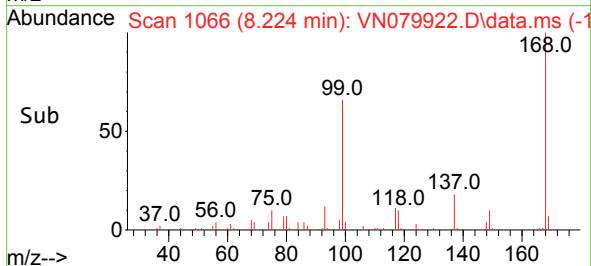
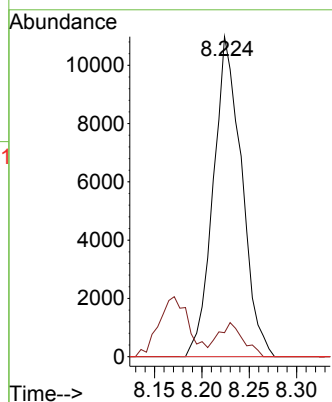
Tgt Ion: 75 Resp: 22857

Ion Ratio Lower Upper

75 100

110 9.4 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.250 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.000 min

Lab File: VN079922.D

Acq: 06 Nov 2023 14:57

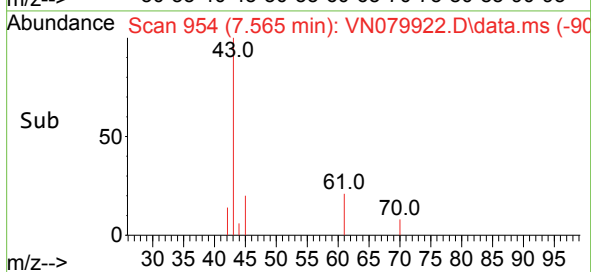
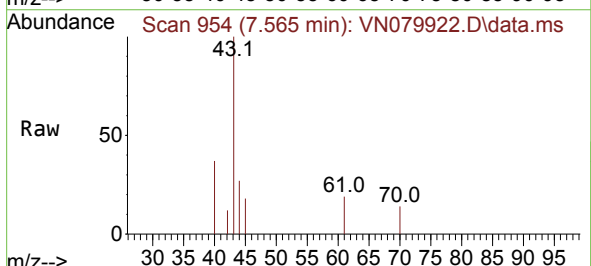
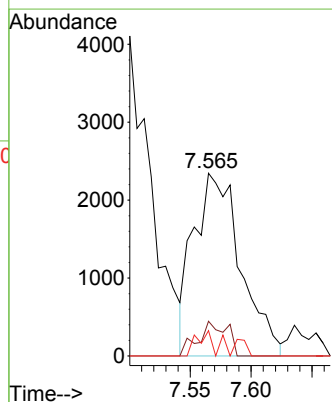
Tgt Ion: 43 Resp: 6306

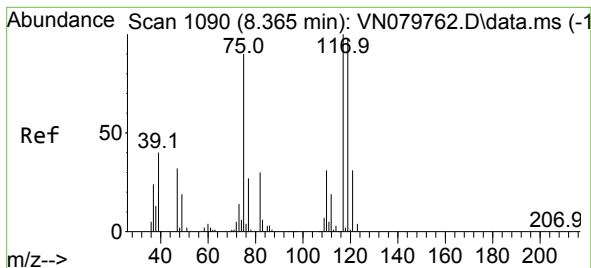
Ion Ratio Lower Upper

43 100

61 11.5 13.2 19.8#

70 4.2 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 4.938 ug/l

RT: 8.230 min Scan# 110

Delta R.T. -0.129 min

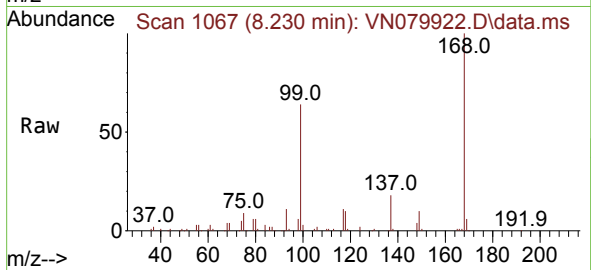
Lab File: VN079922.D

Acq: 06 Nov 2023 14:57

Instrument :

MSVOA_N

ClientSampleId :



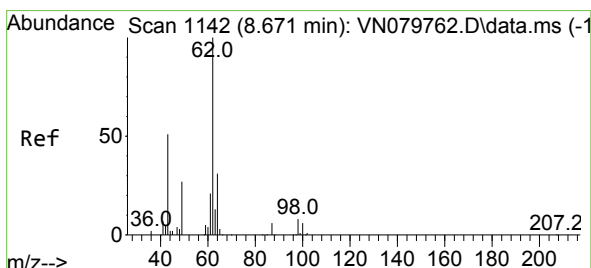
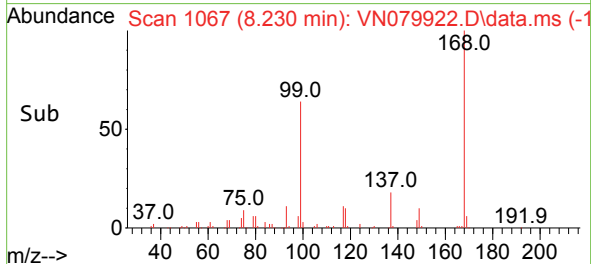
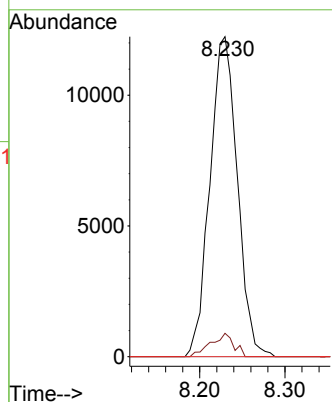
Tgt Ion:117 Resp: 27383

Ion Ratio Lower Upper

117 100

119 7.3 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.292 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.018 min

Lab File: VN079922.D

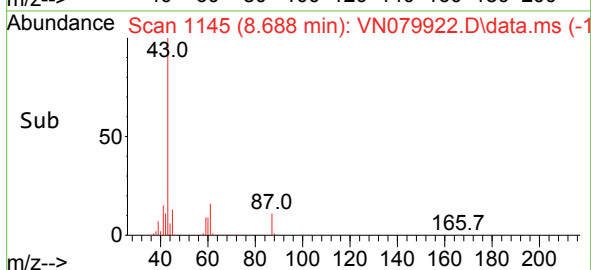
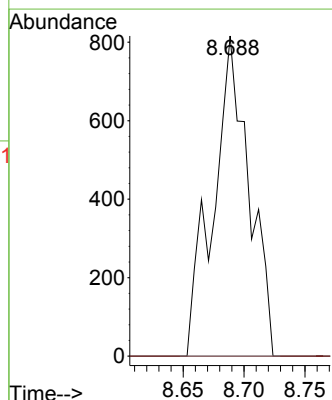
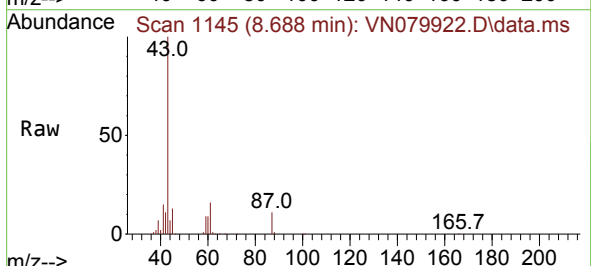
Acq: 06 Nov 2023 14:57

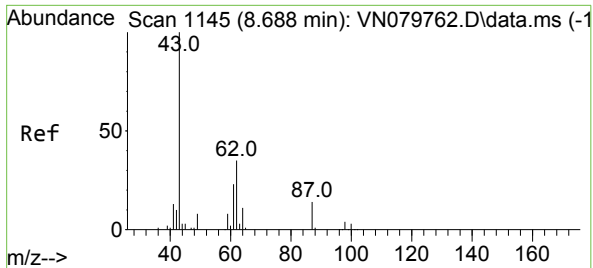
Tgt Ion: 62 Resp: 1680

Ion Ratio Lower Upper

62 100

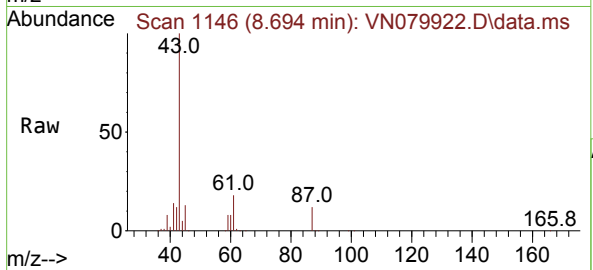
98 0.0 0.0 19.8



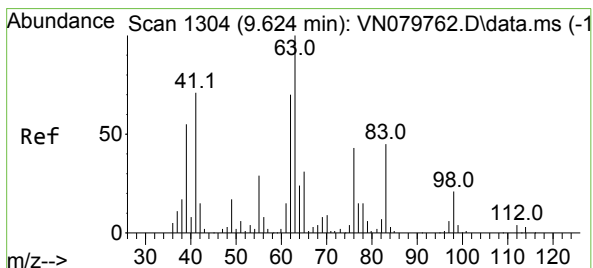
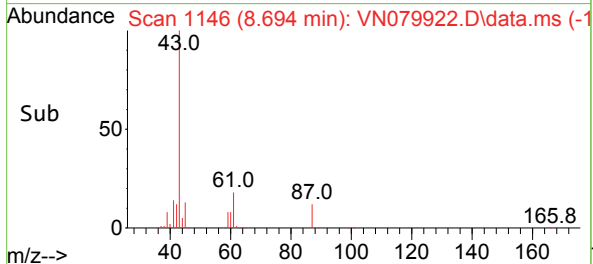
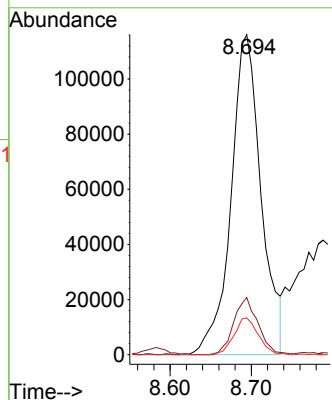


#43
Isopropyl Acetate
Concen: 33.841 ug/l
RT: 8.694 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VN079922.D
Acq: 06 Nov 2023 14:57

Instrument :
MSVOA_N
ClientSampleId :

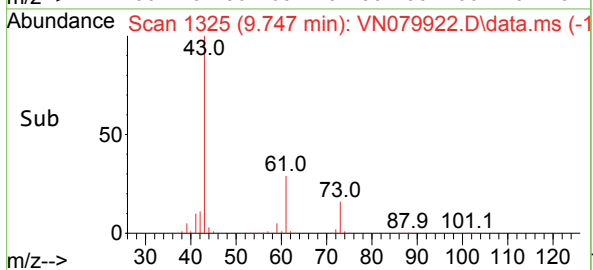
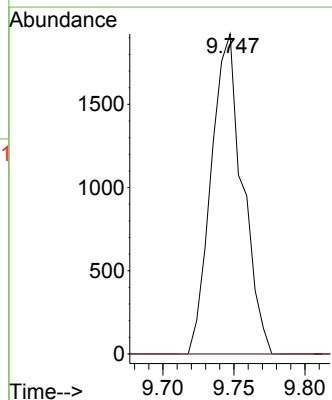
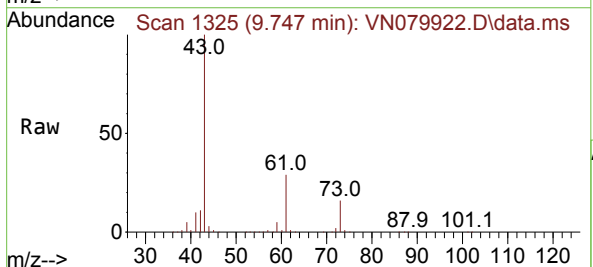


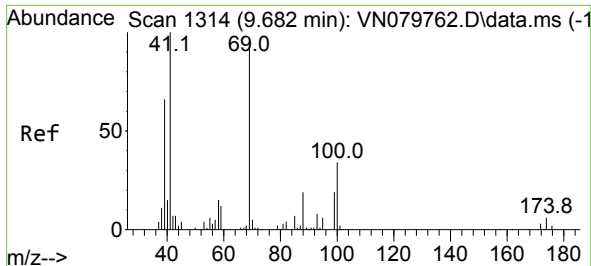
Tgt Ion: 43 Resp: 299481
Ion Ratio Lower Upper
43 100
61 14.5 24.7 37.1#
87 9.3 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.701 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.124 min
Lab File: VN079922.D
Acq: 06 Nov 2023 14:57

Tgt Ion: 63 Resp: 2951
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#

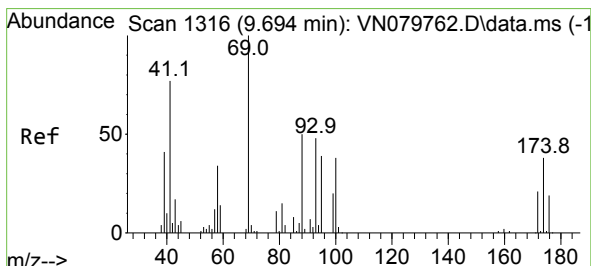
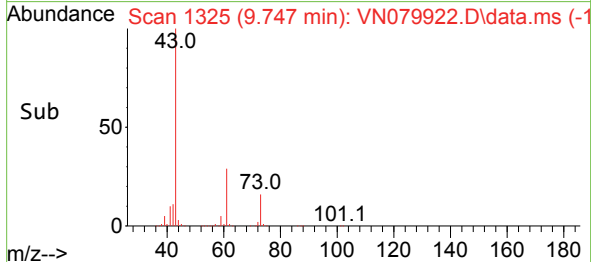
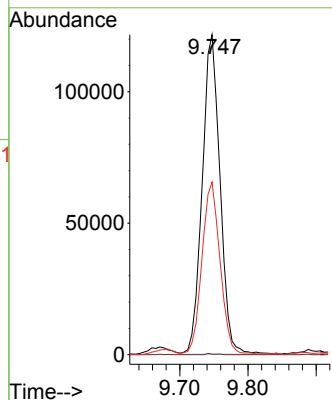
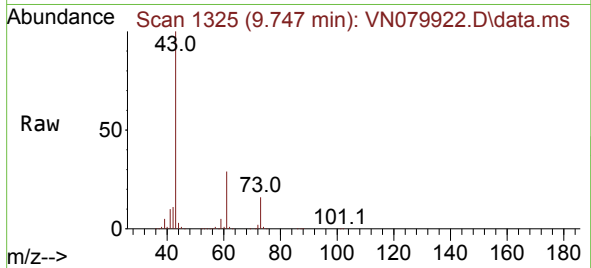




#48
Methyl methacrylate
Concen: 56.828 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN079922.D
Acq: 06 Nov 2023 14:57

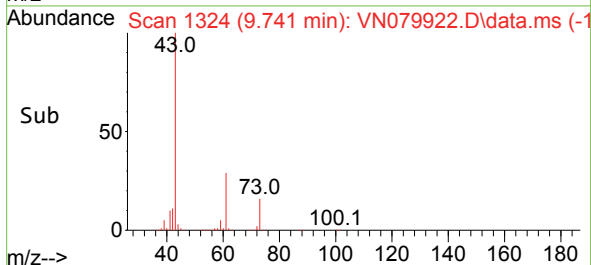
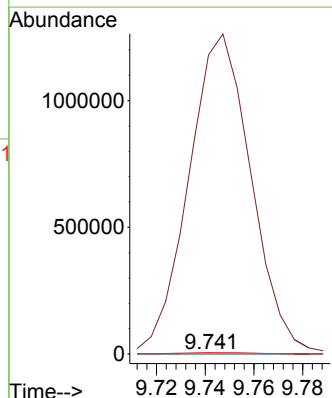
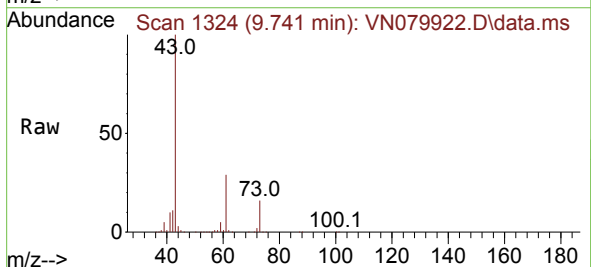
Instrument :
MSVOA_N
ClientSampleId :

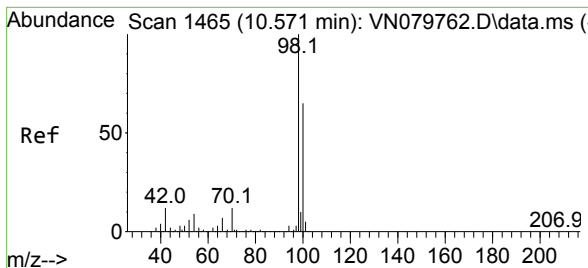
Tgt Ion: 41 Resp: 220281
Ion Ratio Lower Upper
41 100
69 0.2 90.4 135.6#
39 55.0 54.6 81.8



#49
1,4-Dioxane
Concen: 5.037 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.047 min
Lab File: VN079922.D
Acq: 06 Nov 2023 14:57

Tgt Ion: 88 Resp: 345
Ion Ratio Lower Upper
88 100
43 657004.1 17.0 25.6#
58 3625.5 47.0 70.4#

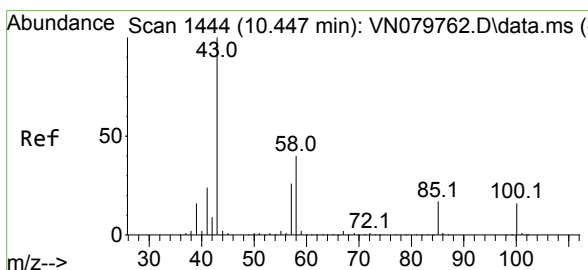
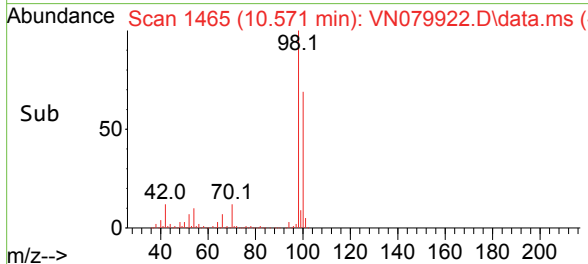
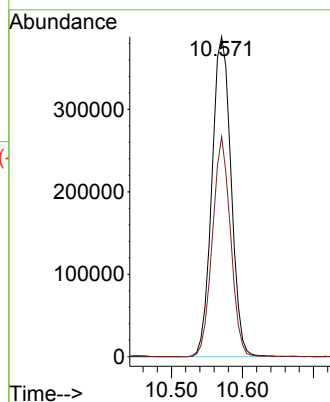
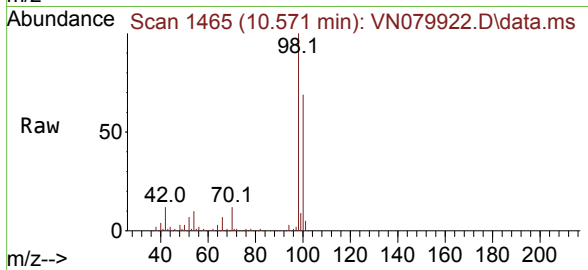




#50
Toluene-d8
Concen: 51.187 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079922.D
Acq: 06 Nov 2023 14:57

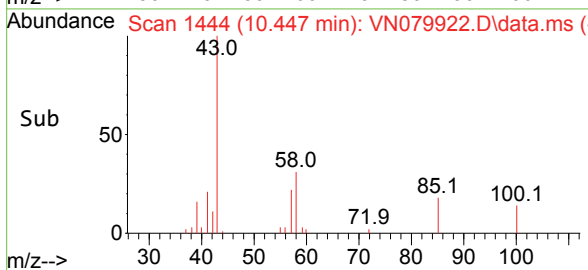
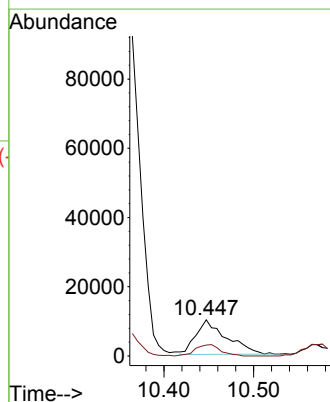
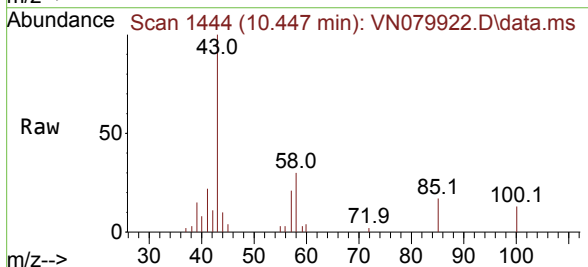
Instrument :
MSVOA_N
ClientSampleId :

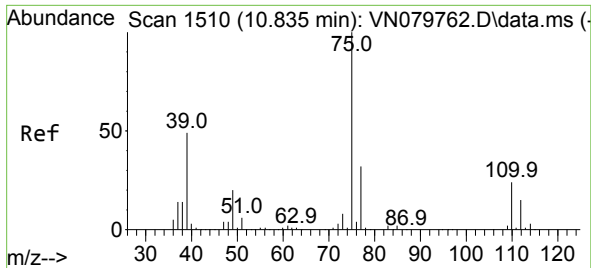
Tgt Ion: 98 Resp: 726175
Ion Ratio Lower Upper
98 100
100 65.0 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 4.764 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN079922.D
Acq: 06 Nov 2023 14:57

Tgt Ion: 43 Resp: 23735
Ion Ratio Lower Upper
43 100
58 26.8 36.6 54.8#

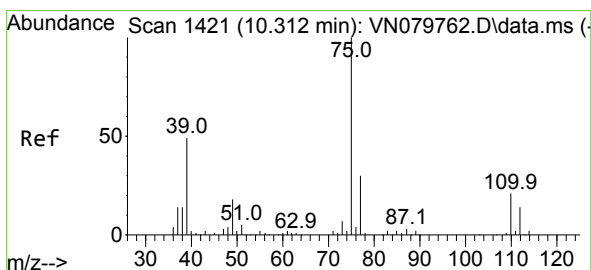
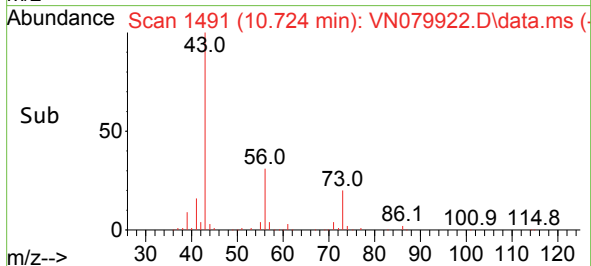
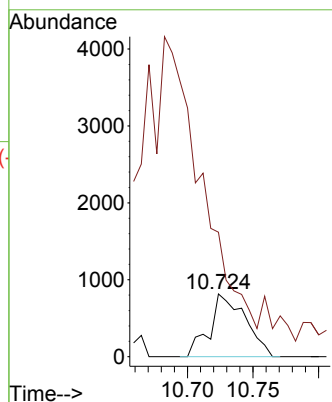
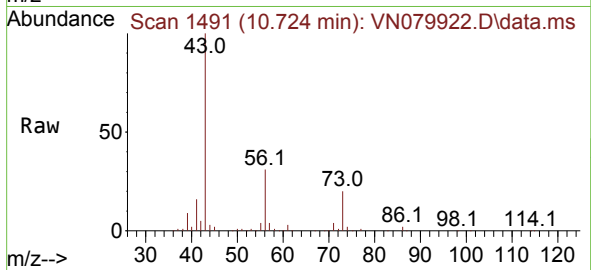




#53
 t-1,3-Dichloropropene
 Concen: 0.256 ug/l
 RT: 10.724 min Scan# 1491
 Delta R.T. -0.117 min
 Lab File: VN079922.D
 Acq: 06 Nov 2023 14:57

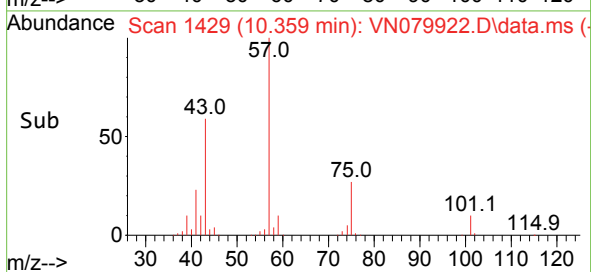
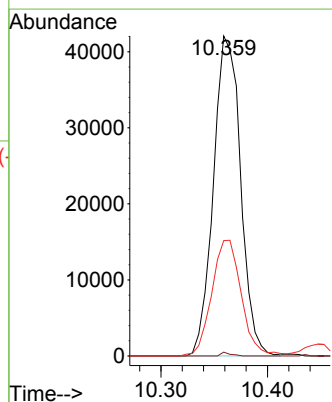
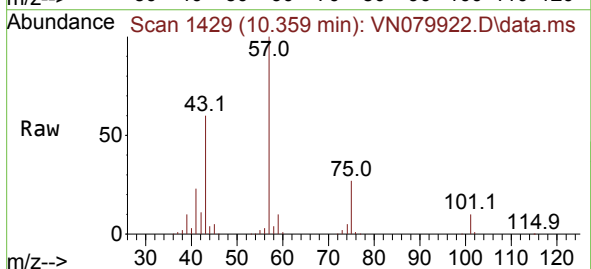
Instrument :
 MSVOA_N
 ClientSampleId :

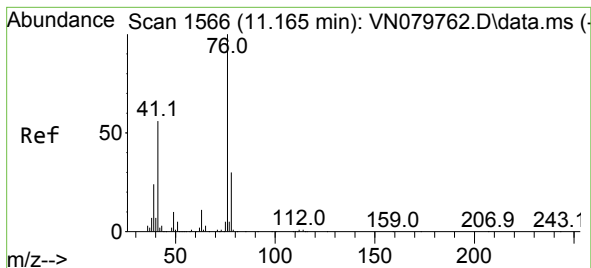
Tgt Ion: 75 Resp: 1541
 Ion Ratio Lower Upper
 75 100
 77 133.3 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 11.380 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.041 min
 Lab File: VN079922.D
 Acq: 06 Nov 2023 14:57

Tgt Ion: 75 Resp: 74579
 Ion Ratio Lower Upper
 75 100
 77 1.2 26.1 39.1#
 39 36.0 31.6 47.4

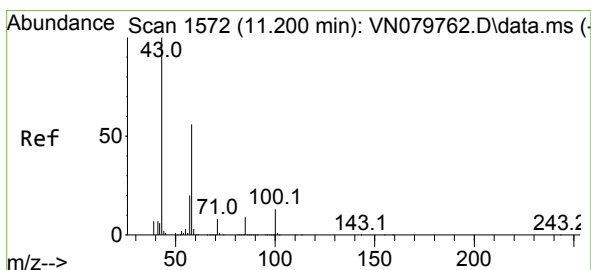
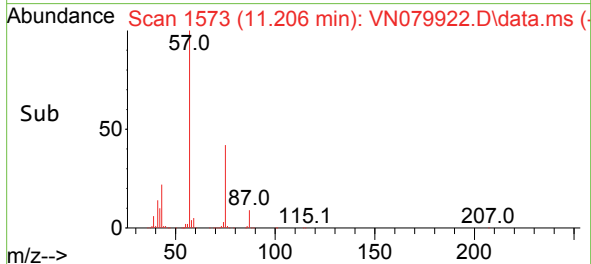
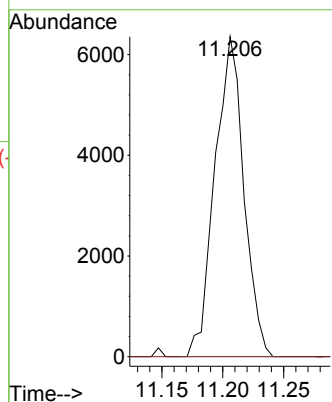
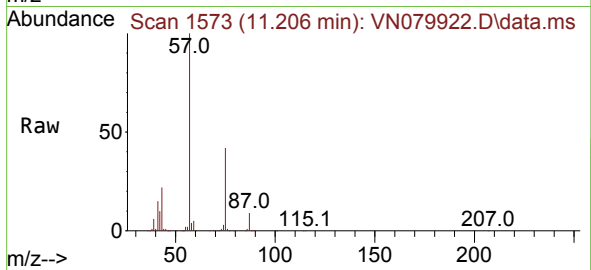




#57
1,3-Dichloropropane
Concen: 1.517 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN079922.D
Acq: 06 Nov 2023 14:57

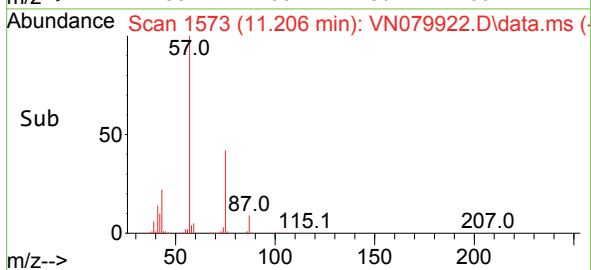
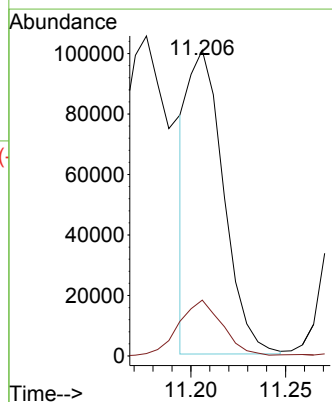
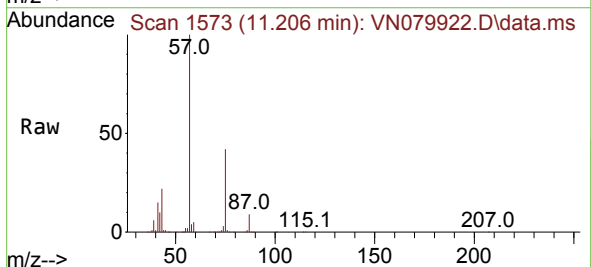
Instrument :
MSVOA_N
ClientSampleId :

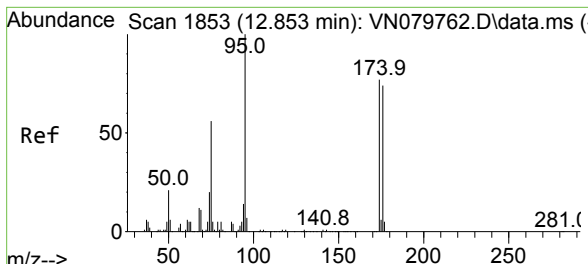
Tgt Ion: 76 Resp: 10510
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#



#59
2-Hexanone
Concen: 34.341 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.006 min
Lab File: VN079922.D
Acq: 06 Nov 2023 14:57

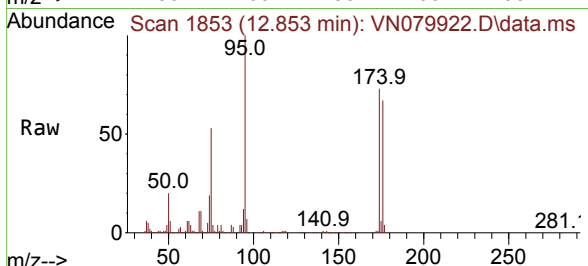
Tgt Ion: 43 Resp: 130891
Ion Ratio Lower Upper
43 100
58 22.9 31.7 95.1#



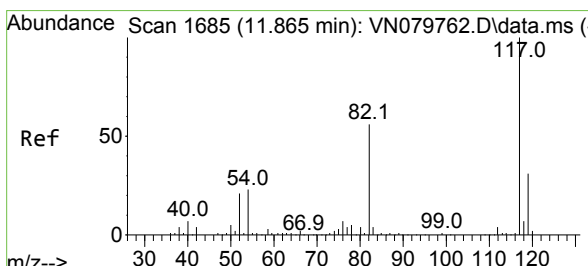
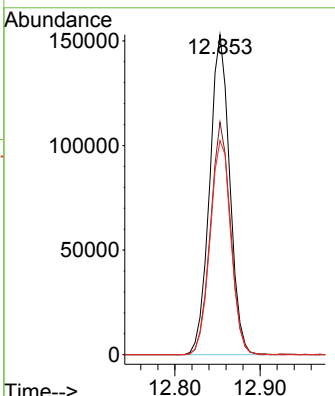
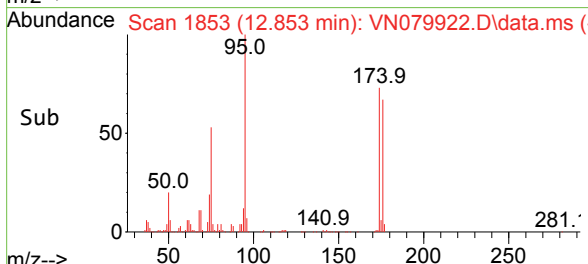


#62
 4-Bromofluorobenzene
 Concen: 53.271 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.000 min
 Lab File: VN079922.D
 Acq: 06 Nov 2023 14:57

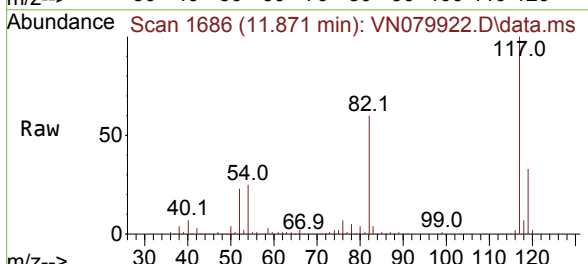
Instrument :
 MSVOA_N
 ClientSampleId :



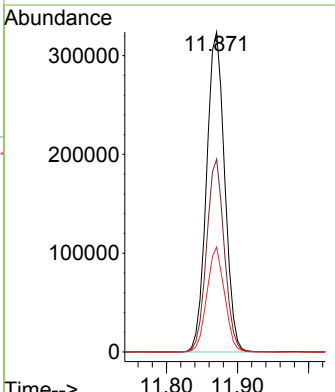
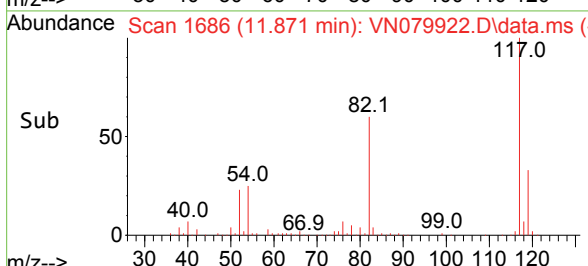
Tgt Ion:	95	Resp:	250641
Ion Ratio	Lower	Upper	
95	100		
174	72.5	0.0	143.8
176	69.4	0.0	135.8

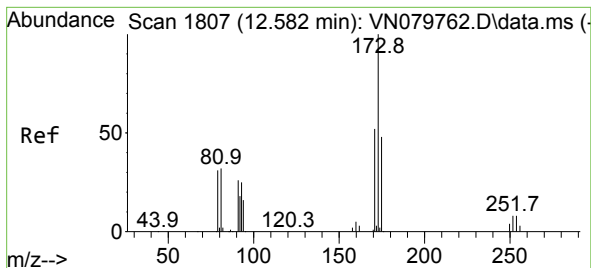


#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.871 min Scan# 1686
 Delta R.T. 0.000 min
 Lab File: VN079922.D
 Acq: 06 Nov 2023 14:57



Tgt Ion:	117	Resp:	573159
Ion Ratio	Lower	Upper	
117	100		
82	60.3	44.0	66.0
119	32.8	25.6	38.4





#71

Bromoform

Concen: 0.588 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.271 min

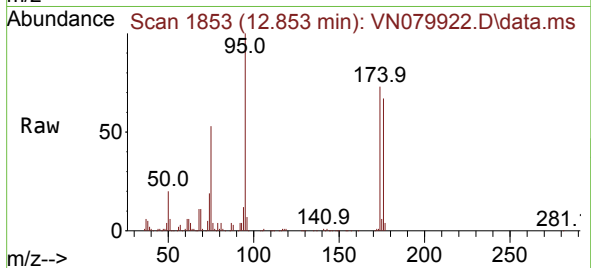
Lab File: VN079922.D

Acq: 06 Nov 2023 14:57

Instrument :

MSVOA_N

ClientSampleId :



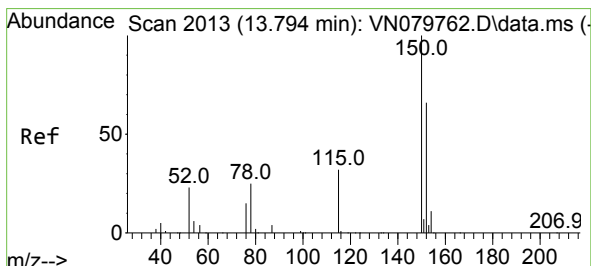
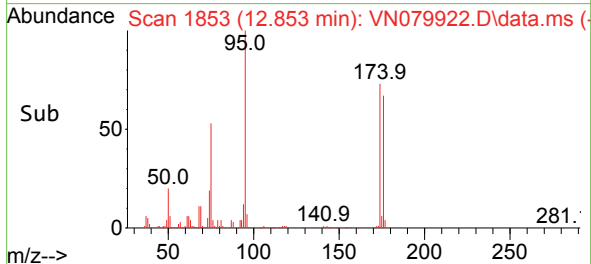
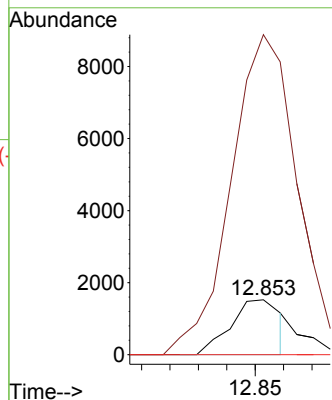
Tgt Ion:173 Resp: 1871

Ion Ratio Lower Upper

173 100

175 611.8 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# 2013

Delta R.T. 0.000 min

Lab File: VN079922.D

Acq: 06 Nov 2023 14:57

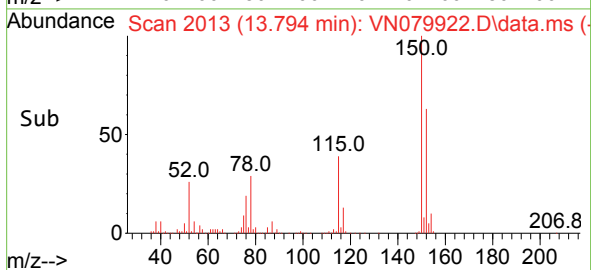
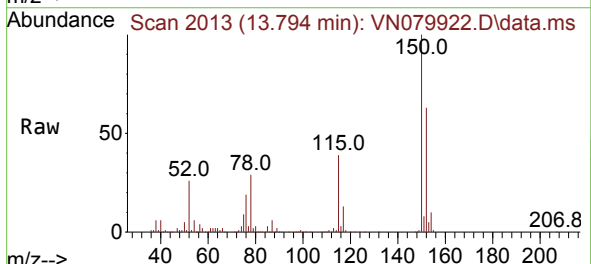
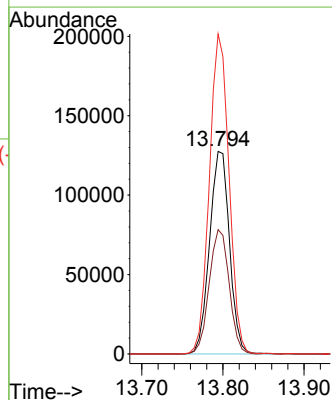
Tgt Ion:152 Resp: 217719

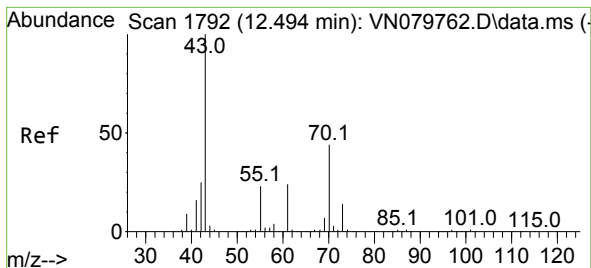
Ion Ratio Lower Upper

152 100

115 61.5 32.3 96.8

150 155.2 0.0 355.8





#74

N-amy1 acetate

Concen: 0.211 ug/l

RT: 12.488 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN079922.D

Acq: 06 Nov 2023 14:57

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 43 Resp: 1519

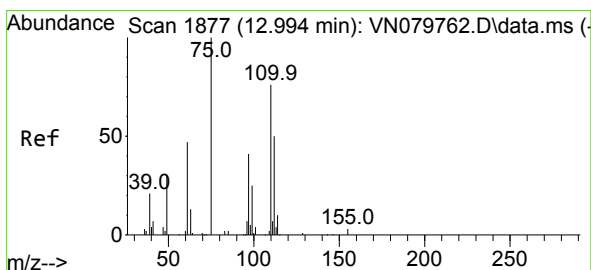
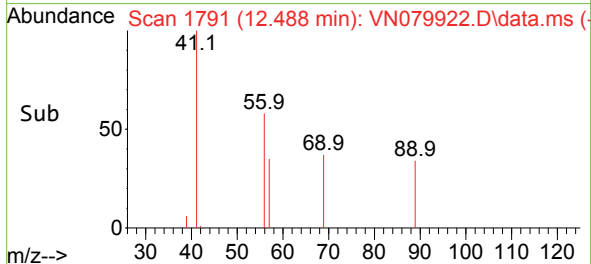
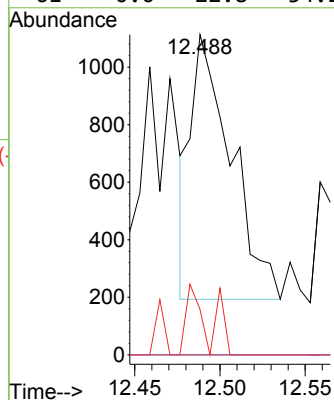
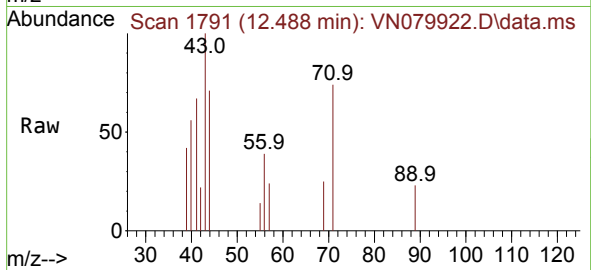
Ion Ratio Lower Upper

43 100

70 0.0 43.4 65.2#

55 9.3 21.4 32.0#

61 0.0 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 26.961 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN079922.D

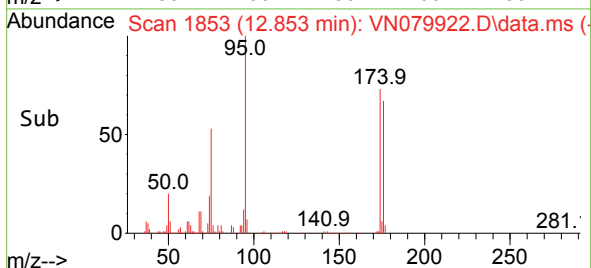
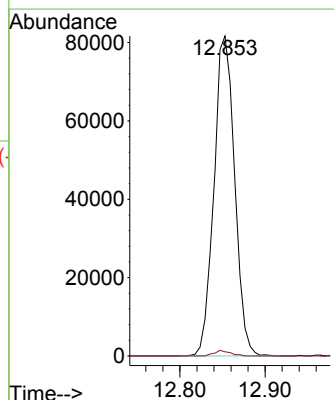
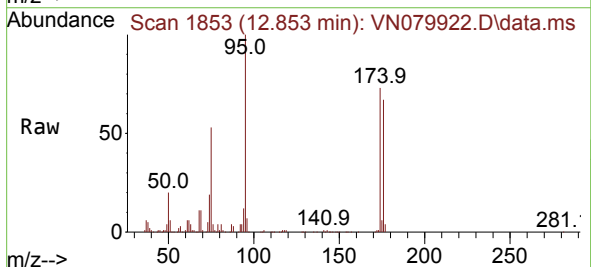
Acq: 06 Nov 2023 14:57

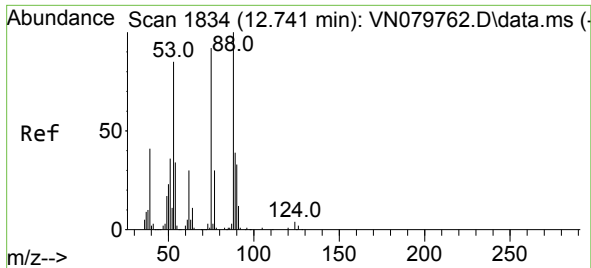
Tgt Ion: 75 Resp: 137808

Ion Ratio Lower Upper

75 100

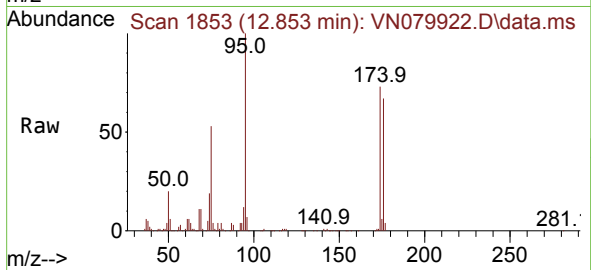
77 1.3 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.354 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN079922.D
 Acq: 06 Nov 2023 14:57

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 137808
 Ion Ratio Lower Upper
 75 100
 53 0.1 67.4 101.2#
 89 0.0 38.8 58.2#

