

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110623\
 Data File : VN079947.D
 Acq On : 07 Nov 2023 05:42
 Operator : JC\MD
 Sample : 05257-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

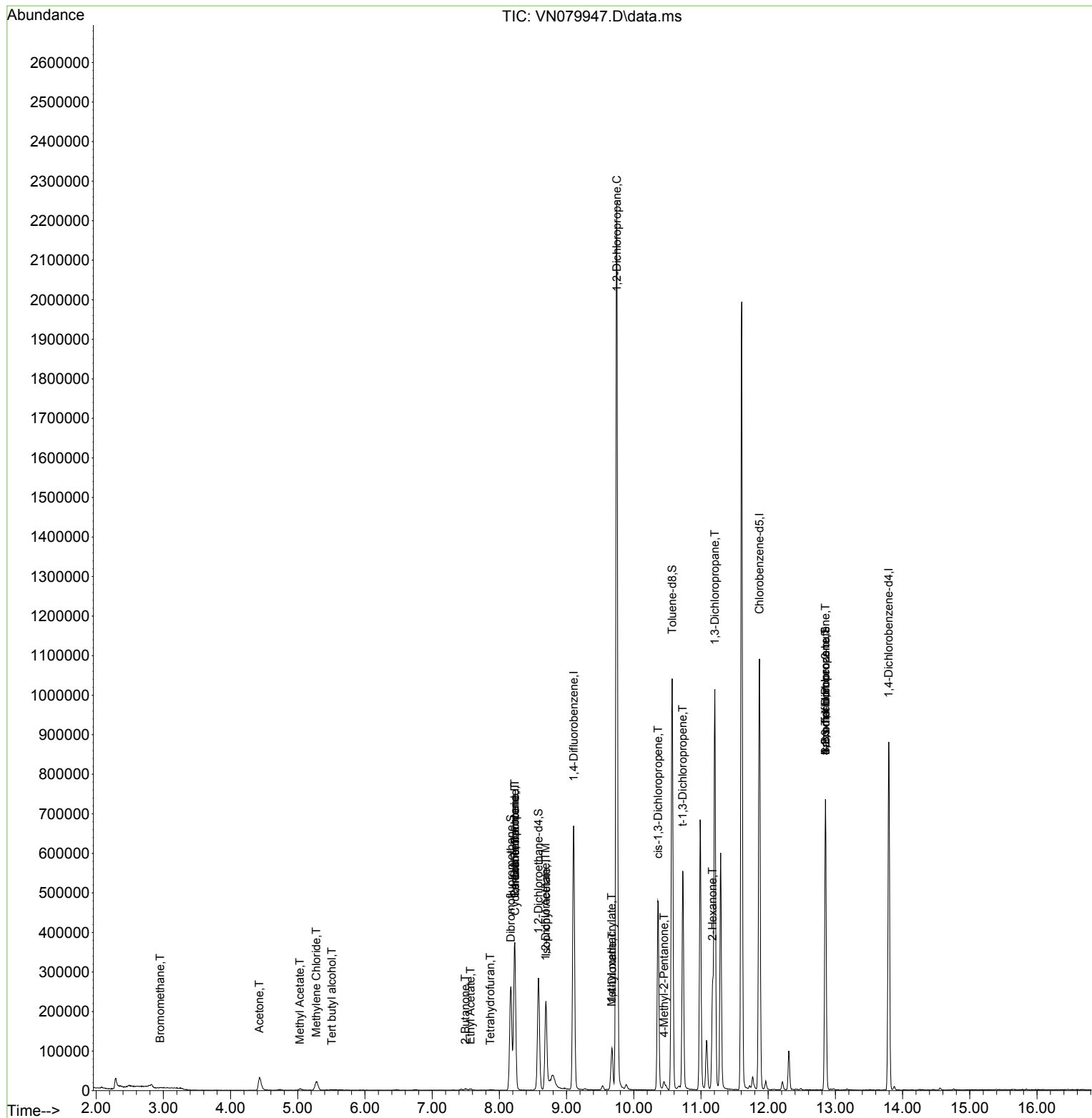
Quant Time: Nov 07 06:17:12 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 02 05:49:08 2023
 Response via : Initial Calibration

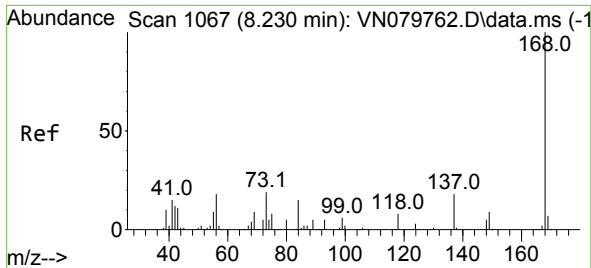
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.229	168	257640	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	549964	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	606968	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	225501	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	229953	58.583	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 117.160%			
35) Dibromofluoromethane	8.171	113	187961	48.289	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.580%			
50) Toluene-d8	10.571	98	713245	49.775	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.540%			
62) 4-Bromofluorobenzene	12.853	95	242383	51.003	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.000%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	1591	Below Cal		99
5) Bromomethane	2.953	94	612	0.248	ug/l	84
11) Tert butyl alcohol	5.506	59	873	1.742	ug/l #	72
16) Acetone	4.430	43	63672	46.180	ug/l	92
18) Methyl Acetate	5.030	43	7488	1.135	ug/l #	67
20) Methylene Chloride	5.277	84	17195	4.942	ug/l #	83
25) 2-Butanone	7.494	43	6177	3.059	ug/l #	67
29) Tetrahydrofuran	7.865	42	938	0.714	ug/l #	34
31) Cyclohexane	8.235	56	7148	1.378	ug/l #	39
36) 1,1-Dichloropropene	8.229	75	24613	4.429	ug/l #	48
37) Ethyl Acetate	7.571	43	6058	1.189	ug/l #	71
38) Carbon Tetrachloride	8.229	117	28723	5.128	ug/l #	15
42) 1,2-Dichloroethane	8.688	62	1653	0.284	ug/l #	73
43) Isopropyl Acetate	8.694	43	258700	28.941	ug/l #	79
45) 1,2-Dichloropropane	9.747	63	2965	0.697	ug/l #	45
48) Methyl methacrylate	9.671	41	6396	1.634	ug/l #	3
49) 1,4-Dioxane	9.676	88	54	0.781	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	21484	4.269	ug/l #	70
53) t-1,3-Dichloropropene	10.729	75	1656	0.273	ug/l #	85
54) cis-1,3-Dichloropropene	10.365	75	81682	12.340	ug/l #	72
57) 1,3-Dichloropropane	11.206	76	9696	1.386	ug/l #	42
59) 2-Hexanone	11.170	43	232450	60.379	ug/l #	19
71) Bromoform	12.853	173	1882	0.559	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	134013	25.314	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	134013	68.873	ug/l #	15

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

Quant Time: Nov 07 06:17:12 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

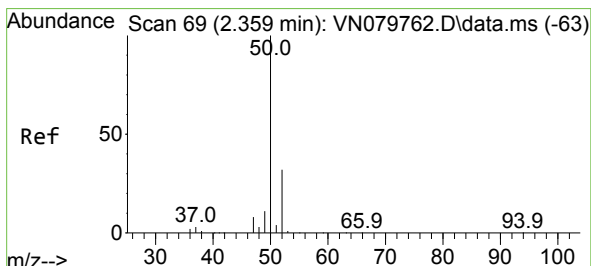
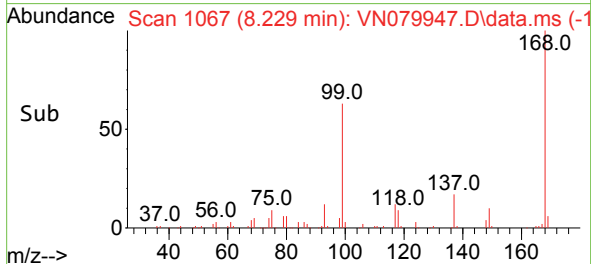
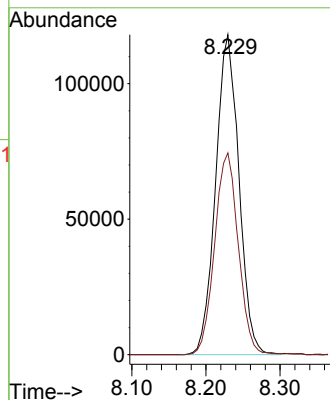
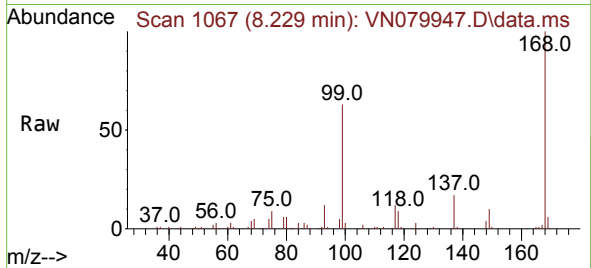




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN079947.D
Acq: 07 Nov 2023 05:42

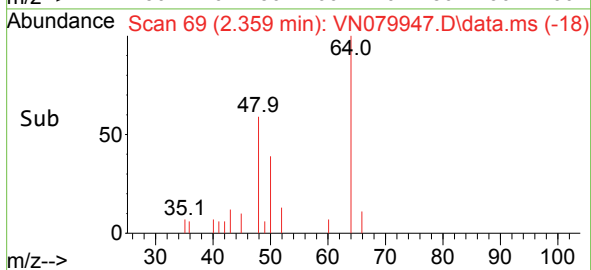
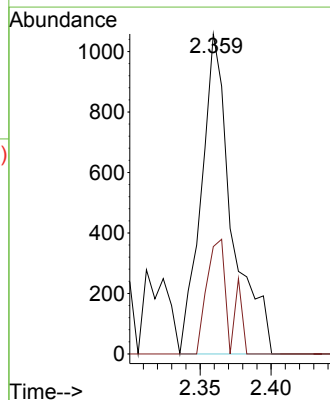
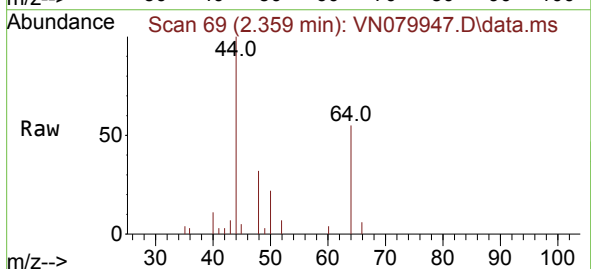
Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:168 Resp: 257640
Ion Ratio Lower Upper
168 100
99 63.1 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN079947.D
Acq: 07 Nov 2023 05:42

Tgt Ion: 50 Resp: 1591
Ion Ratio Lower Upper
50 100
52 33.6 26.5 39.7

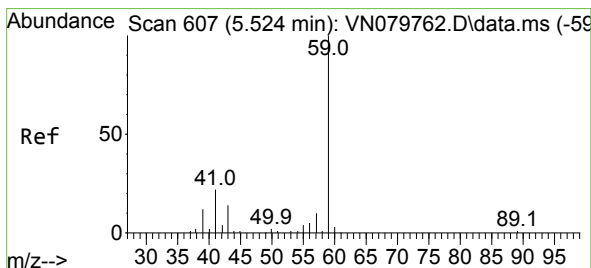
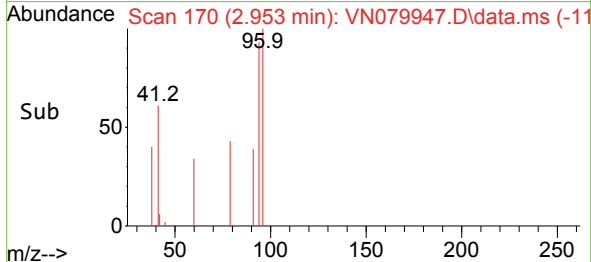
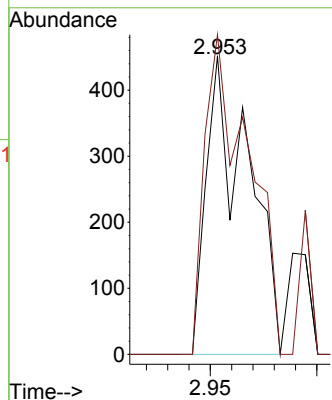
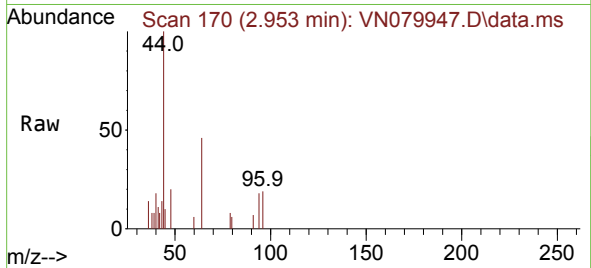




#5
Bromomethane
Concen: 0.248 ug/l
RT: 2.953 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN079947.D
Acq: 07 Nov 2023 05:42

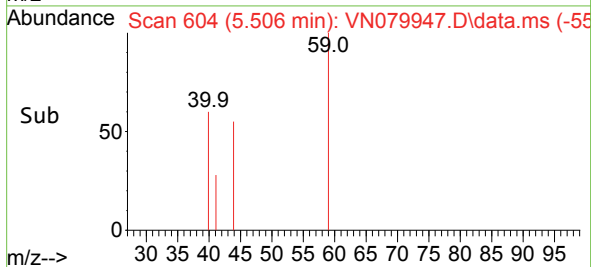
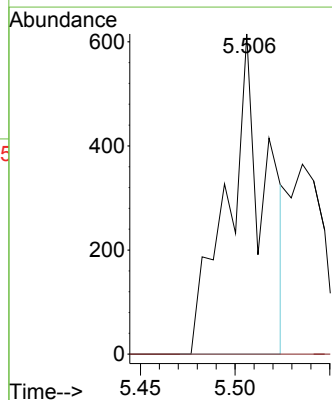
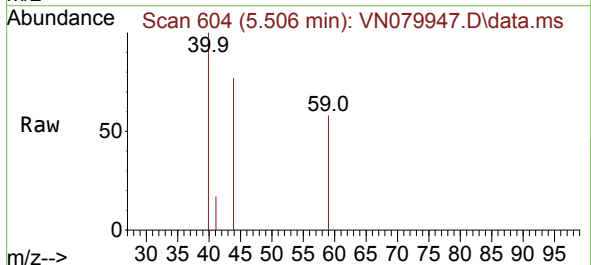
Instrument :
MSVOA_N
ClientSampleId :

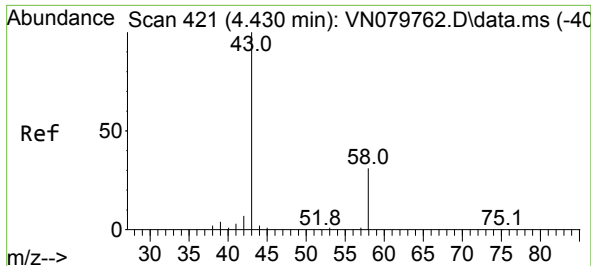
Tgt Ion: 94 Resp: 612
Ion Ratio Lower Upper
94 100
96 107.1 73.1 109.7



#11
Tert butyl alcohol
Concen: 1.742 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.012 min
Lab File: VN079947.D
Acq: 07 Nov 2023 05:42

Tgt Ion: 59 Resp: 873
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

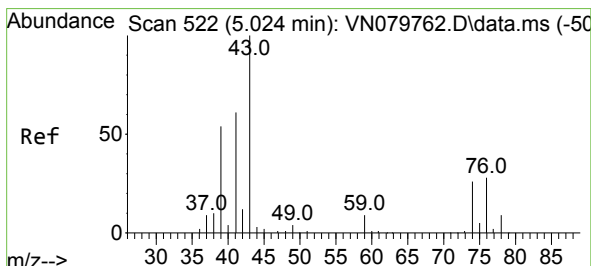
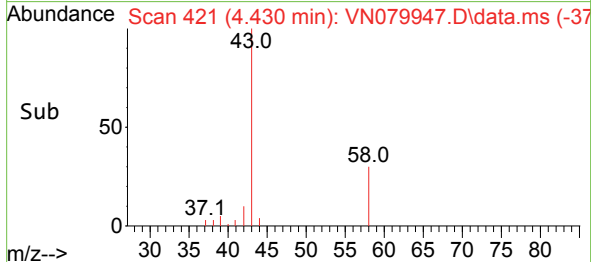
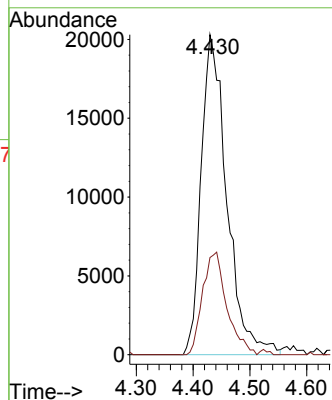
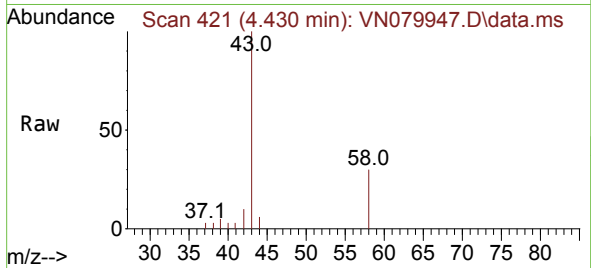




#16
Acetone
Concen: 46.180 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN079947.D
Acq: 07 Nov 2023 05:42

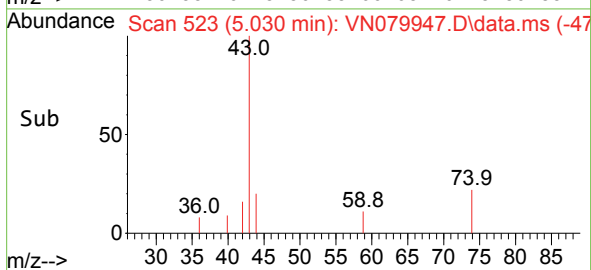
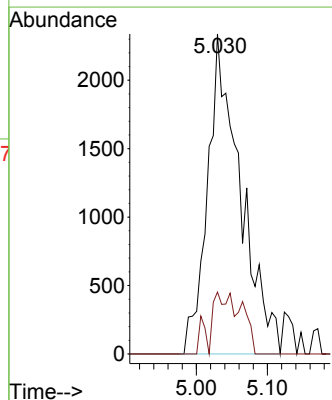
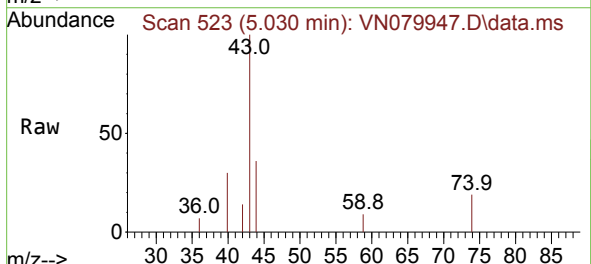
Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 43 Resp: 63672
Ion Ratio Lower Upper
43 100
58 30.3 28.0 42.0



#18
Methyl Acetate
Concen: 1.135 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN079947.D
Acq: 07 Nov 2023 05:42

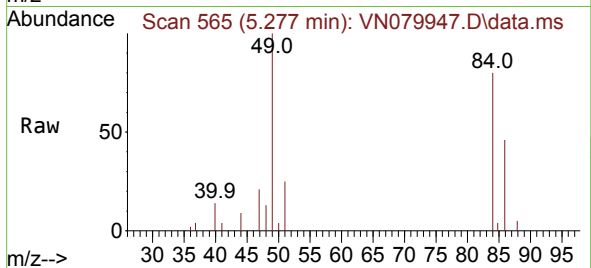
Tgt Ion: 43 Resp: 7488
Ion Ratio Lower Upper
43 100
74 14.4 26.2 39.4#



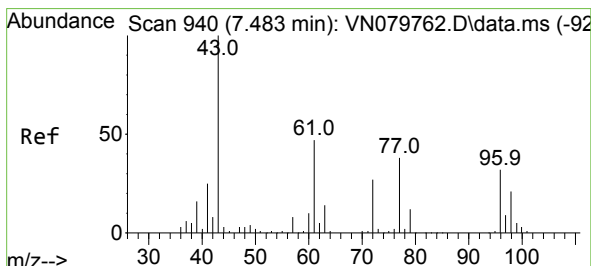
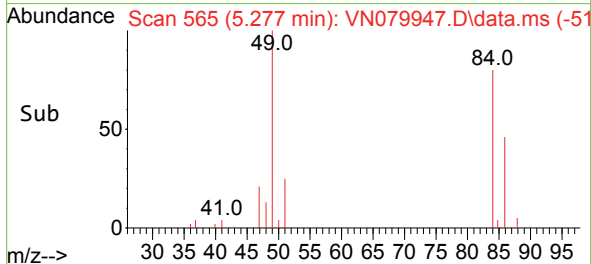
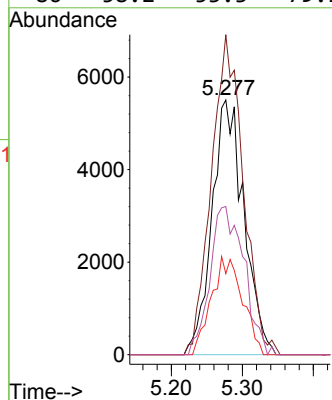


#20
Methylene Chloride
Concen: 4.942 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN079947.D
Acq: 07 Nov 2023 05:42

Instrument :
MSVOA_N
ClientSampleId :

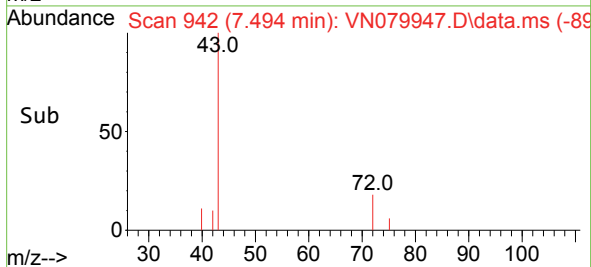
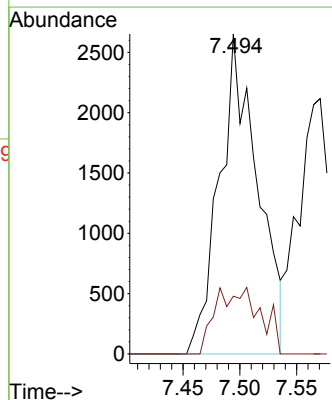
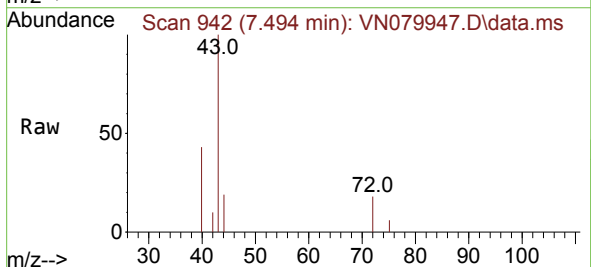


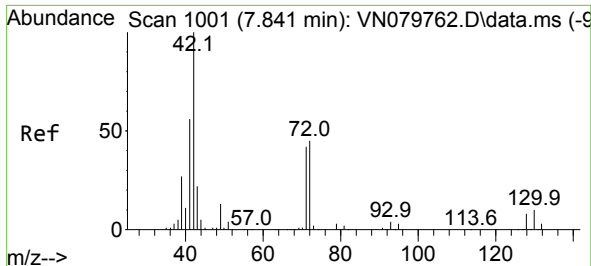
Tgt Ion:	84	Resp:	17195
Ion	Ratio	Lower	Upper
84	100		
49	125.7	79.7	119.5#
51	31.8	25.2	37.8
86	58.2	53.3	79.9



#25
2-Butanone
Concen: 3.059 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN079947.D
Acq: 07 Nov 2023 05:42

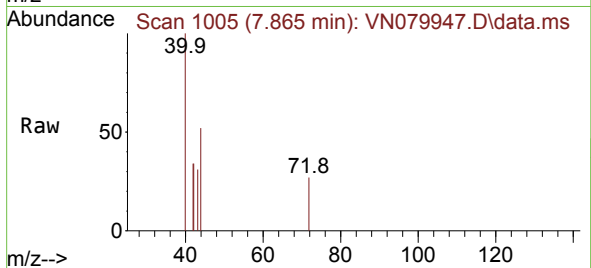
Tgt Ion:	43	Resp:	6177
Ion	Ratio	Lower	Upper
43	100		
72	18.0	30.2	45.2#



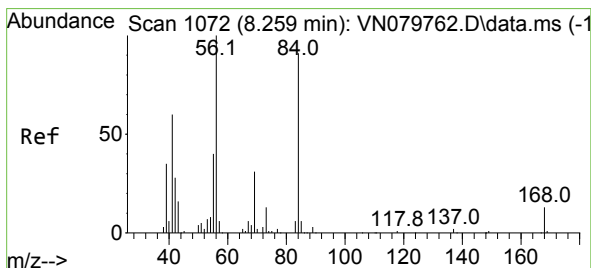
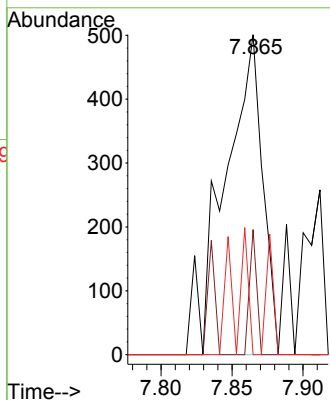
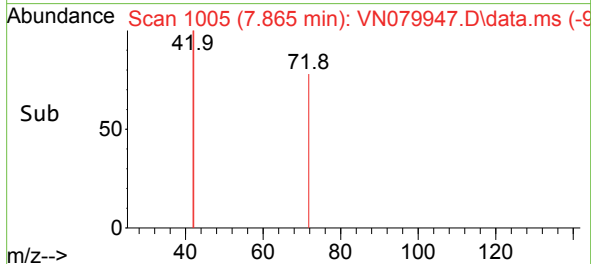


#29
Tetrahydrofuran
Concen: 0.714 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.024 min
Lab File: VN079947.D
Acq: 07 Nov 2023 05:42

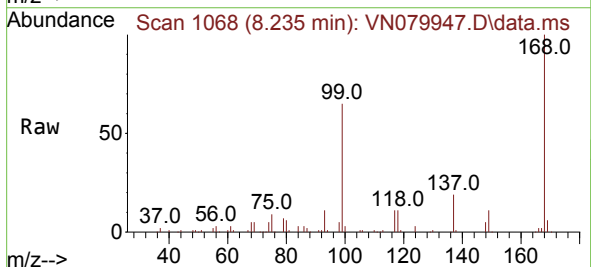
Instrument :
MSVOA_N
ClientSampleId :



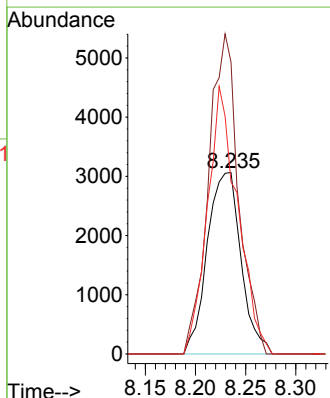
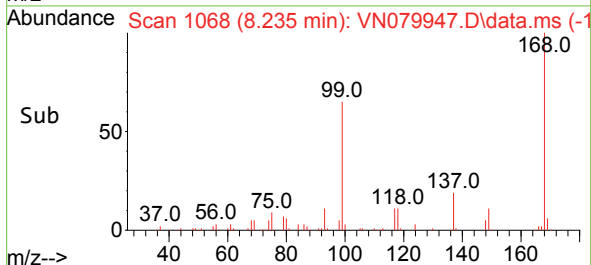
Tgt Ion: 42 Resp: 938
Ion Ratio Lower Upper
42 100
72 7.4 49.8 74.6#
71 14.4 47.4 71.2#

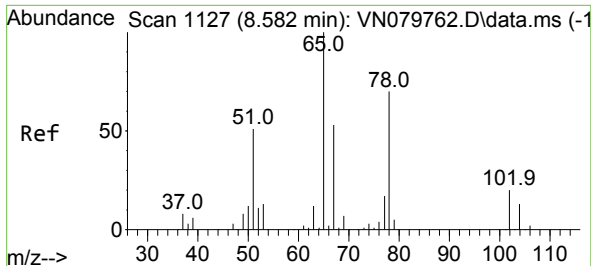


#31
Cyclohexane
Concen: 1.378 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.024 min
Lab File: VN079947.D
Acq: 07 Nov 2023 05:42



Tgt Ion: 56 Resp: 7148
Ion Ratio Lower Upper
56 100
69 160.9 26.8 40.2#
84 94.7 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 58.583 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079947.D

Acq: 07 Nov 2023 05:42

Instrument :

MSVOA_N

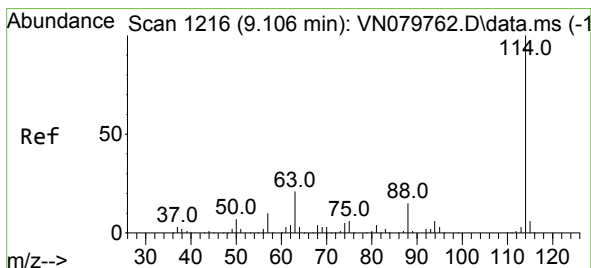
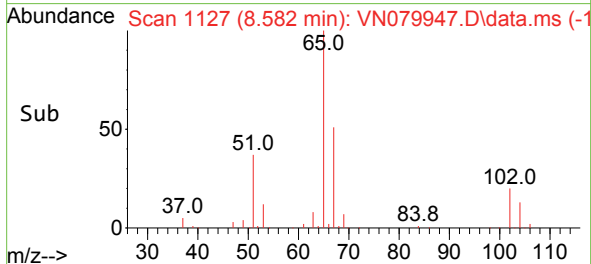
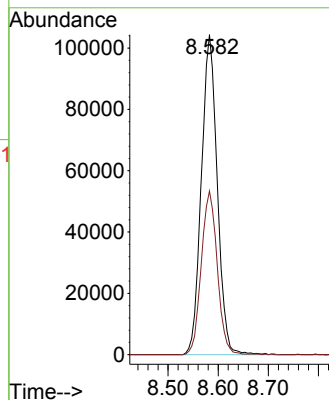
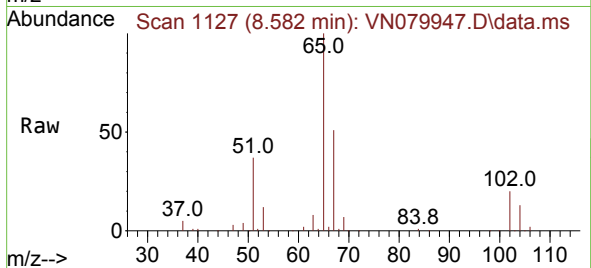
ClientSampleId :

Tgt Ion: 65 Resp: 229953

Ion Ratio Lower Upper

65 100

67 51.4 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN079947.D

Acq: 07 Nov 2023 05:42

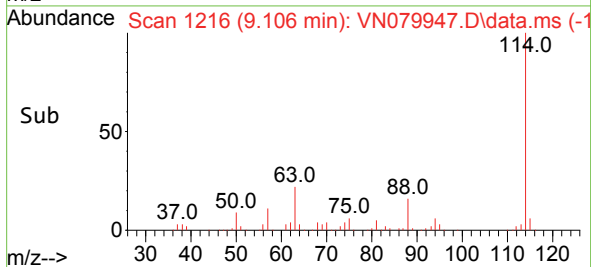
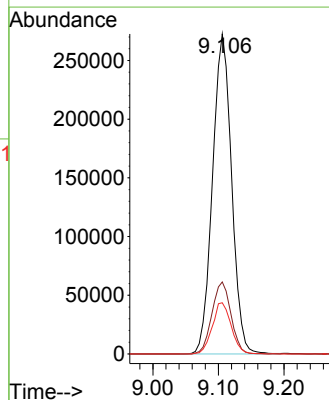
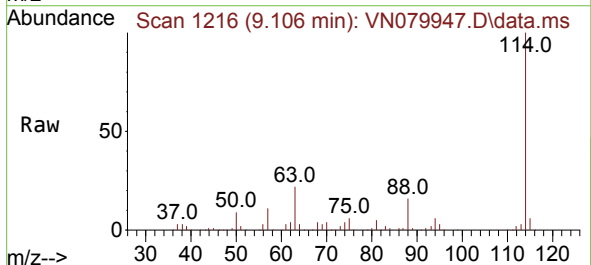
Tgt Ion: 114 Resp: 549964

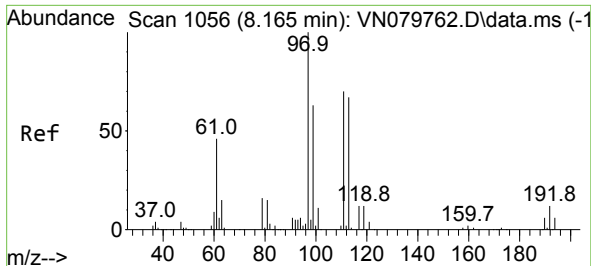
Ion Ratio Lower Upper

114 100

63 22.5 0.0 36.4

88 16.0 0.0 30.6





#35

Dibromofluoromethane

Concen: 48.289 ug/l

RT: 8.171 min Scan# 1056

Delta R.T. 0.000 min

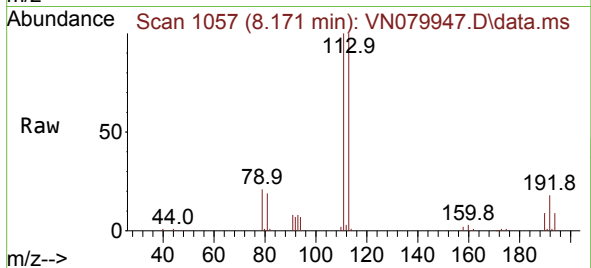
Lab File: VN079947.D

Acq: 07 Nov 2023 05:42

Instrument :

MSVOA_N

ClientSampleId :



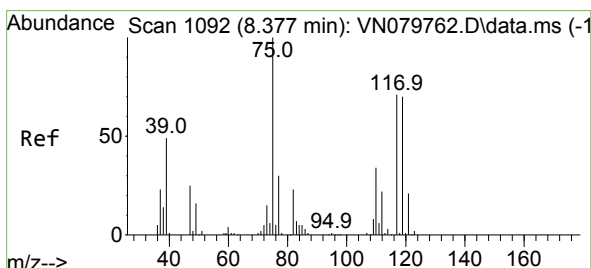
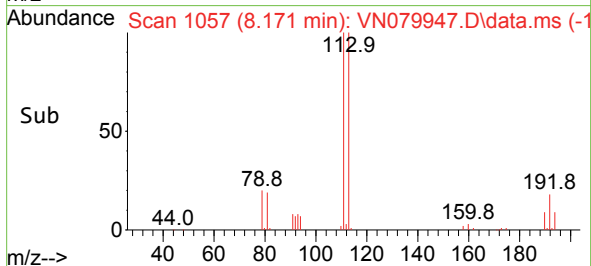
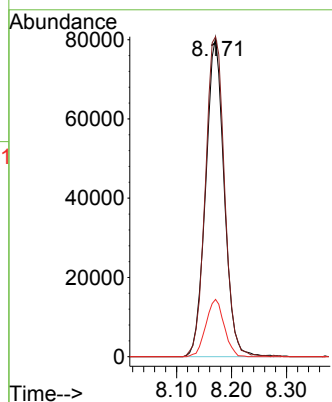
Tgt Ion:113 Resp: 187961

Ion Ratio Lower Upper

113 100

111 103.9 82.6 123.8

192 17.7 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.429 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN079947.D

Acq: 07 Nov 2023 05:42

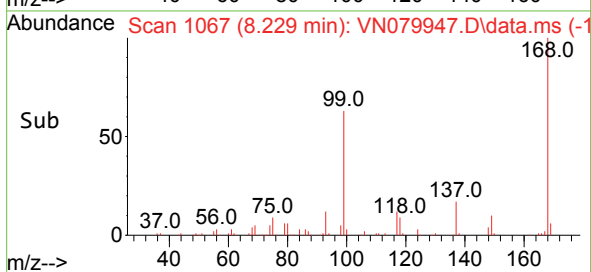
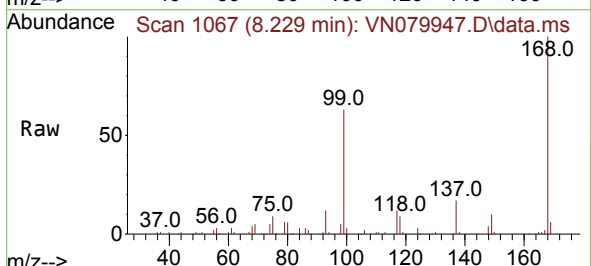
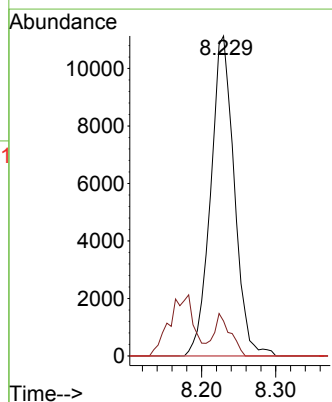
Tgt Ion: 75 Resp: 24613

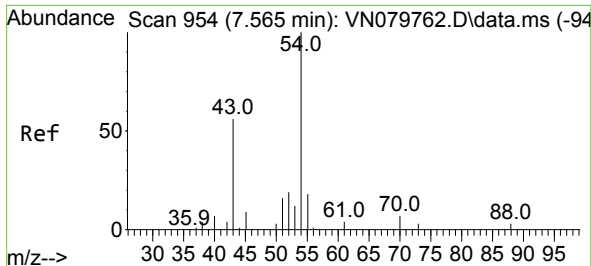
Ion Ratio Lower Upper

75 100

110 9.1 19.1 57.3#

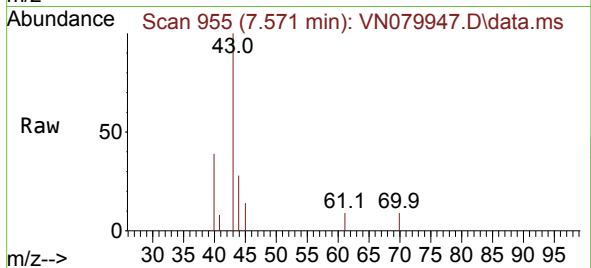
77 0.0 25.0 37.4#



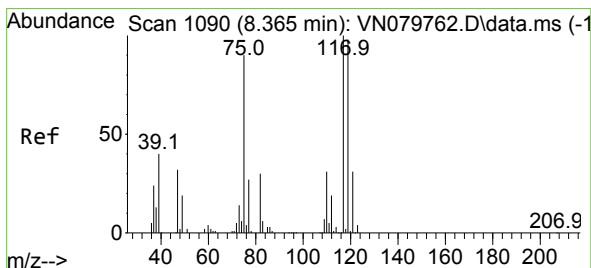
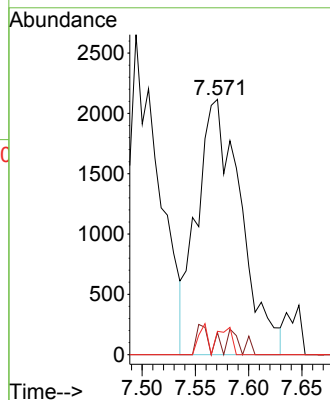


#37
Ethyl Acetate
Concen: 1.189 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN079947.D
Acq: 07 Nov 2023 05:42

Instrument :
MSVOA_N
ClientSampleId :

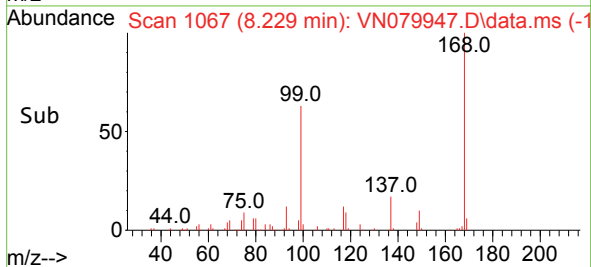
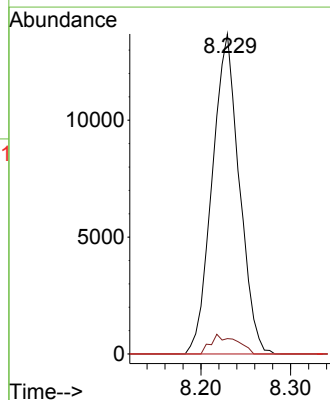
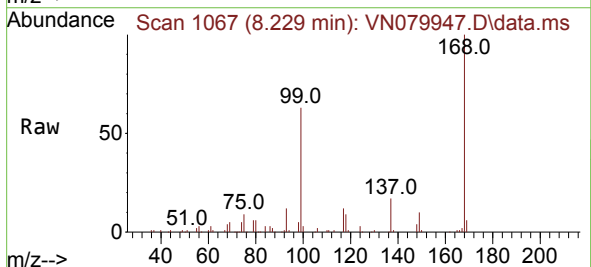


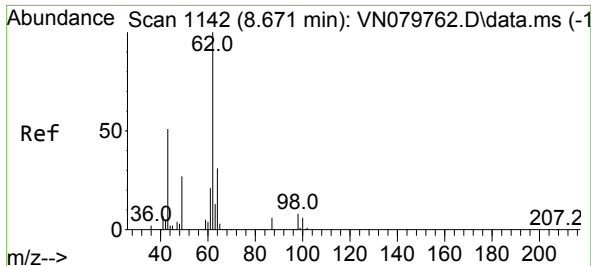
Tgt Ion:	43	Resp:	6058
Ion	Ratio	Lower	Upper
43	100		
61	3.1	13.2	19.8#
70	3.5	11.3	16.9#



#38
Carbon Tetrachloride
Concen: 5.128 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.129 min
Lab File: VN079947.D
Acq: 07 Nov 2023 05:42

Tgt Ion:	117	Resp:	28723
Ion	Ratio	Lower	Upper
117	100		
119	4.8	77.3	115.9#
121	0.0	23.3	34.9#





#42

1,2-Dichloroethane

Concen: 0.284 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.018 min

Lab File: VN079947.D

Acq: 07 Nov 2023 05:42

Instrument :

MSVOA_N

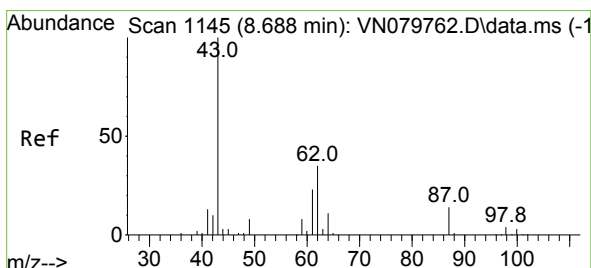
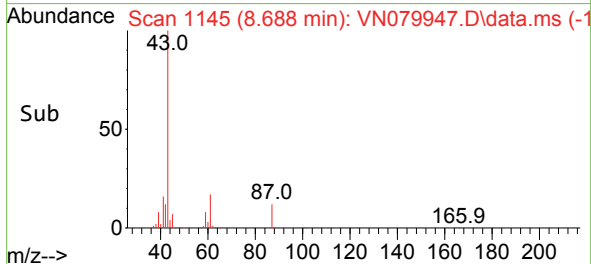
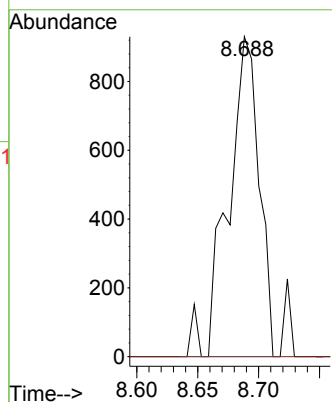
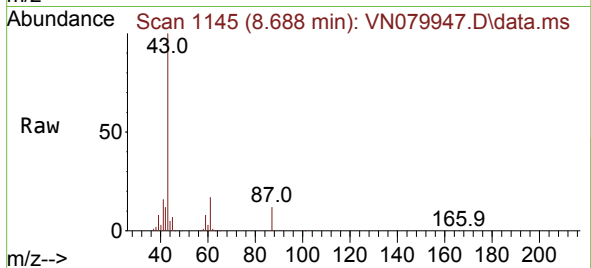
ClientSampleId :

Tgt Ion: 62 Resp: 1653

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 28.941 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.006 min

Lab File: VN079947.D

Acq: 07 Nov 2023 05:42

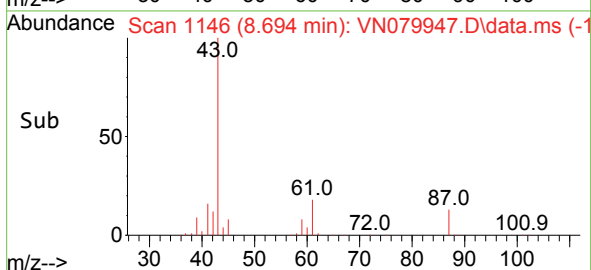
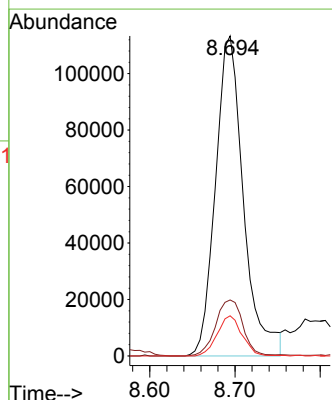
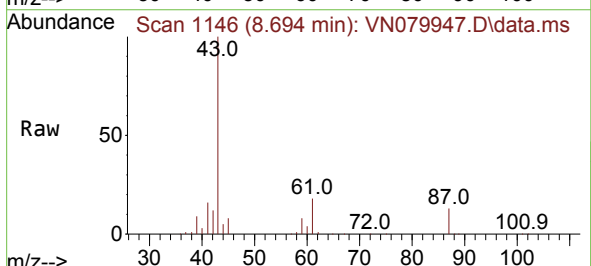
Tgt Ion: 43 Resp: 258700

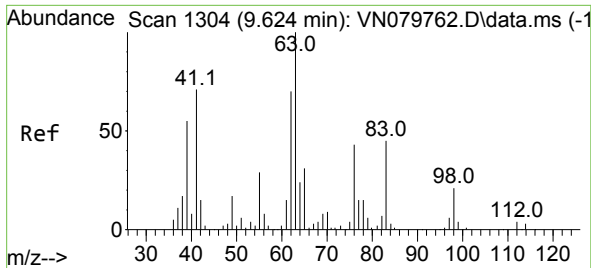
Ion Ratio Lower Upper

43 100

61 17.4 24.7 37.1#

87 11.1 14.6 21.8#

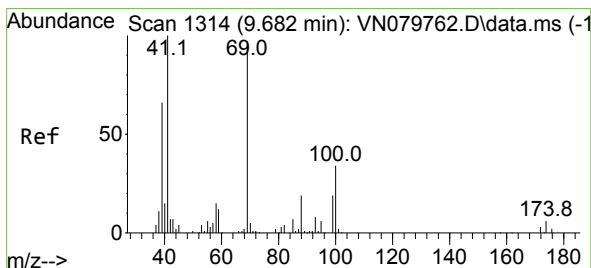
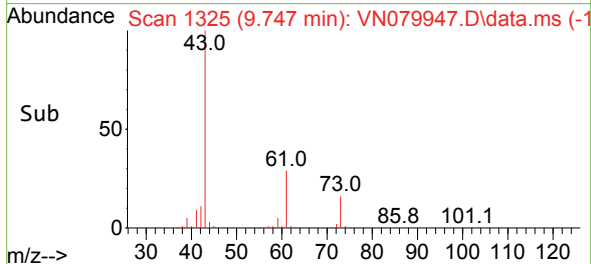
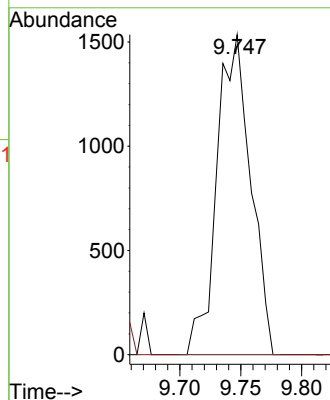
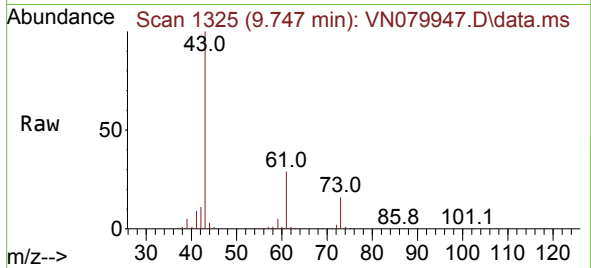




#45
1,2-Dichloropropane
Concen: 0.697 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.124 min
Lab File: VN079947.D
Acq: 07 Nov 2023 05:42

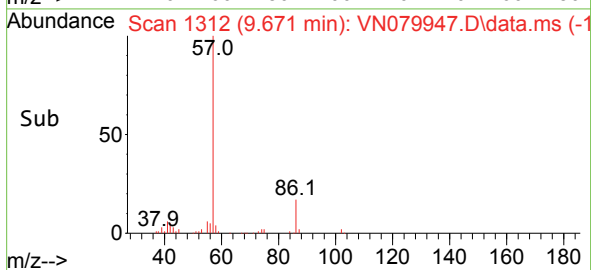
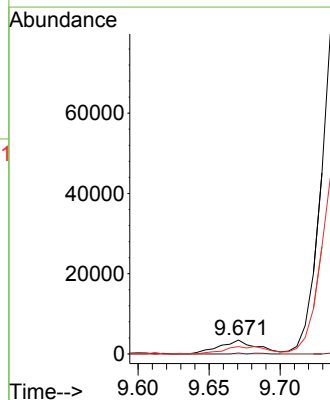
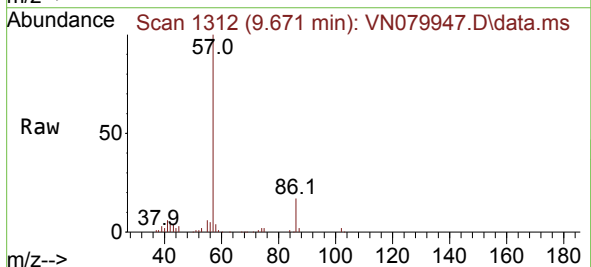
Instrument :
MSVOA_N
ClientSampleId :

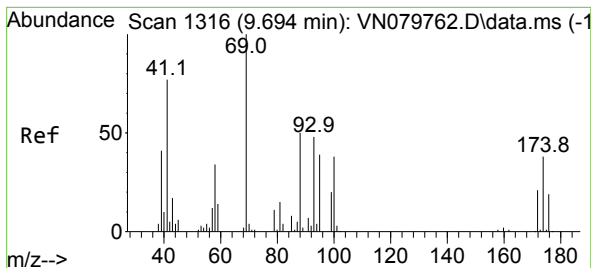
Tgt Ion: 63 Resp: 2965
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



#48
Methyl methacrylate
Concen: 1.634 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.012 min
Lab File: VN079947.D
Acq: 07 Nov 2023 05:42

Tgt Ion: 41 Resp: 6396
Ion Ratio Lower Upper
41 100
69 1.4 90.4 135.6#
39 0.0 54.6 81.8#





#49

1,4-Dioxane

Concen: 0.781 ug/l

RT: 9.676 min Scan# 11

Delta R.T. -0.018 min

Lab File: VN079947.D

Acq: 07 Nov 2023 05:42

Instrument :

MSVOA_N

ClientSampleId :

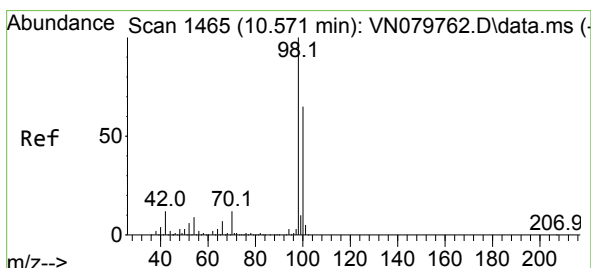
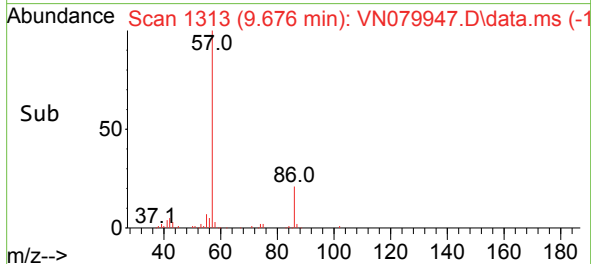
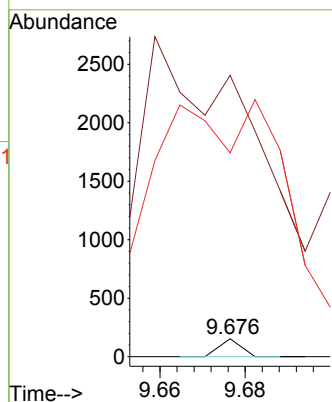
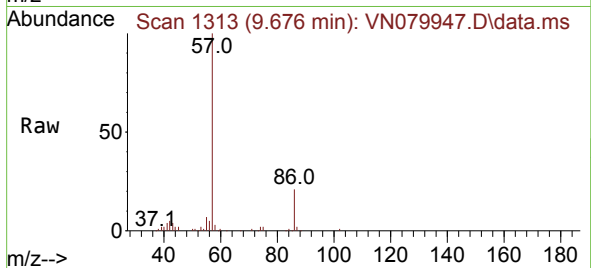
Tgt Ion: 88 Resp: 54

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 9698.1 47.0 70.4#



#50

Toluene-d8

Concen: 49.775 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN079947.D

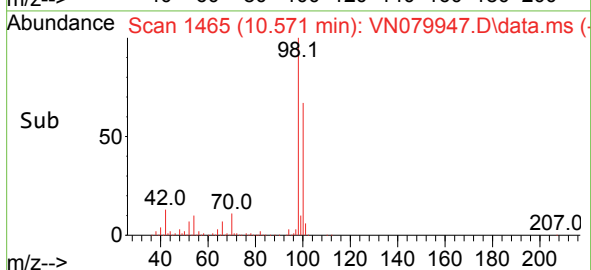
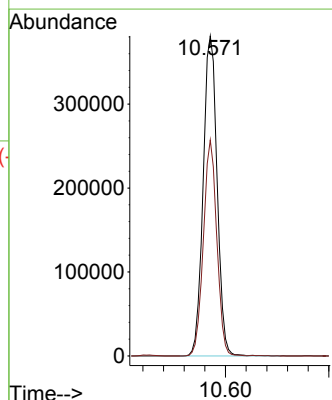
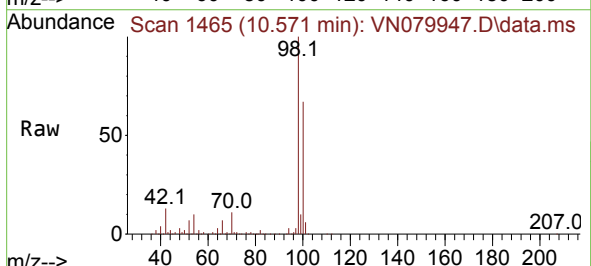
Acq: 07 Nov 2023 05:42

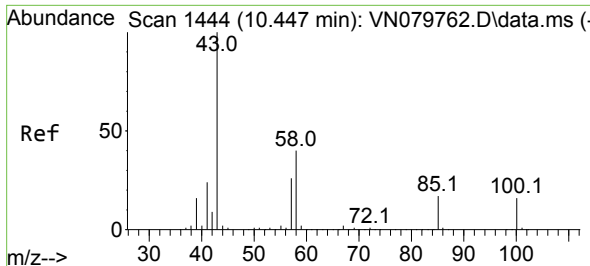
Tgt Ion: 98 Resp: 713245

Ion Ratio Lower Upper

98 100

100 64.9 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 4.269 ug/l

RT: 10.453 min Scan# 1444

Delta R.T. 0.006 min

Lab File: VN079947.D

Acq: 07 Nov 2023 05:42

Instrument :

MSVOA_N

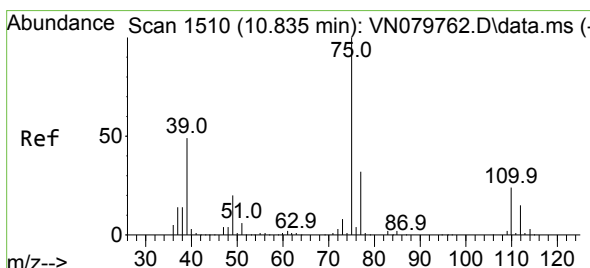
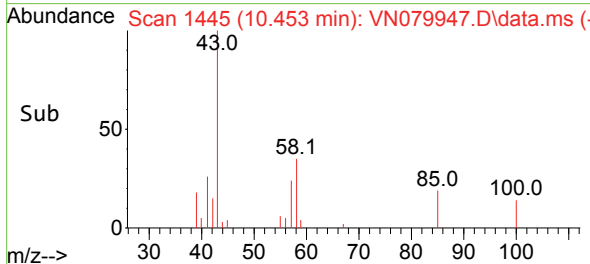
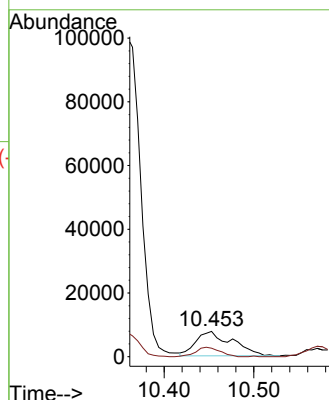
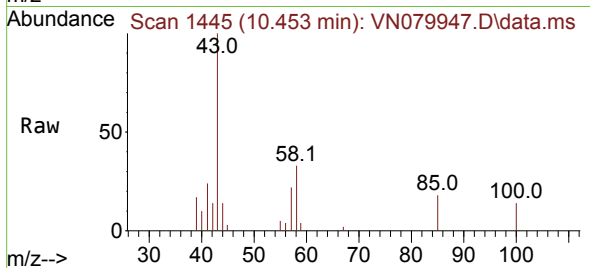
ClientSampleId :

Tgt Ion: 43 Resp: 21484

Ion Ratio Lower Upper

43 100

58 25.7 36.6 54.8#



#53

t-1,3-Dichloropropene

Concen: 0.273 ug/l

RT: 10.729 min Scan# 1492

Delta R.T. -0.112 min

Lab File: VN079947.D

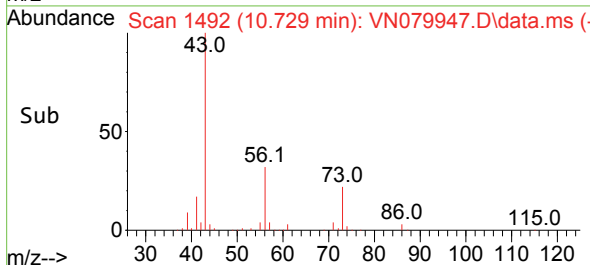
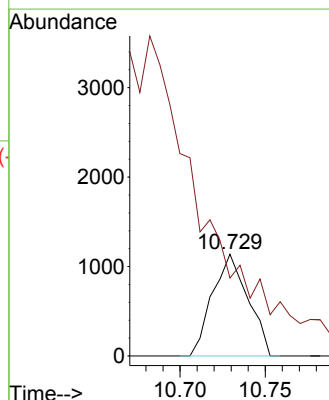
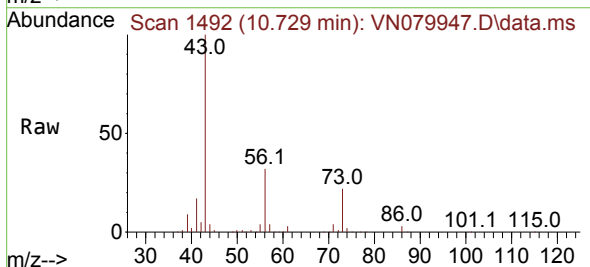
Acq: 07 Nov 2023 05:42

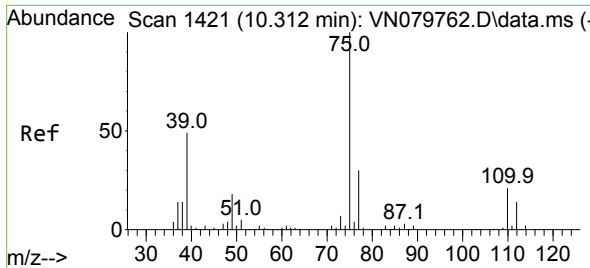
Tgt Ion: 75 Resp: 1656

Ion Ratio Lower Upper

75 100

77 23.3 25.4 38.0#

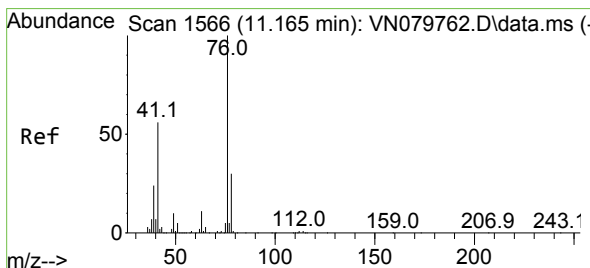
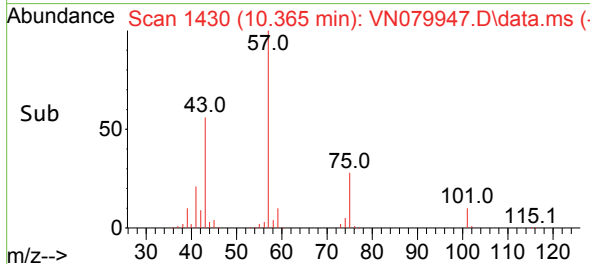
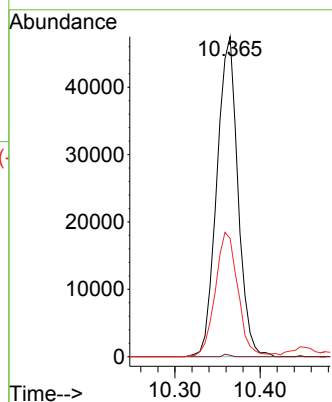
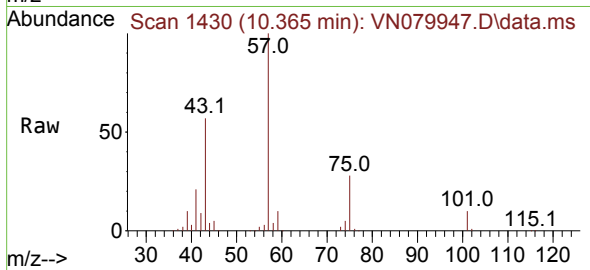




#54
 cis-1,3-Dichloropropene
 Concen: 12.340 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN079947.D
 Acq: 07 Nov 2023 05:42

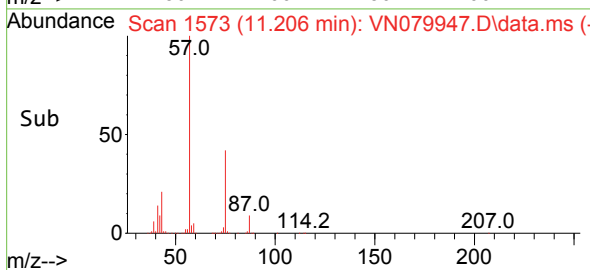
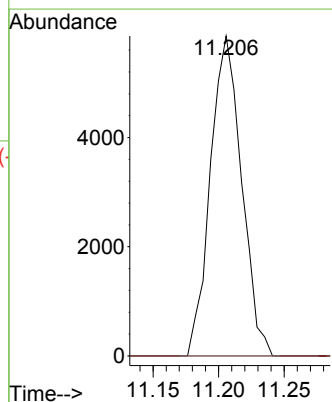
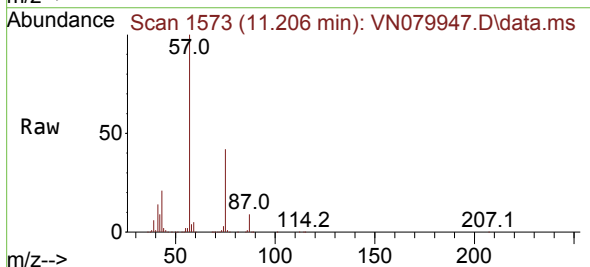
Instrument :
 MSVOA_N
 ClientSampleId :

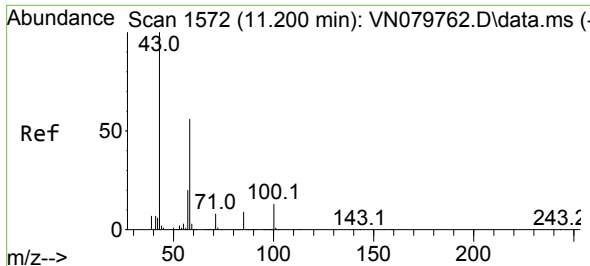
Tgt Ion: 75 Resp: 81682
 Ion Ratio Lower Upper
 75 100
 77 0.4 26.1 39.1#
 39 37.0 31.6 47.4



#57
 1,3-Dichloropropane
 Concen: 1.386 ug/l
 RT: 11.206 min Scan# 1573
 Delta R.T. 0.041 min
 Lab File: VN079947.D
 Acq: 07 Nov 2023 05:42

Tgt Ion: 76 Resp: 9696
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

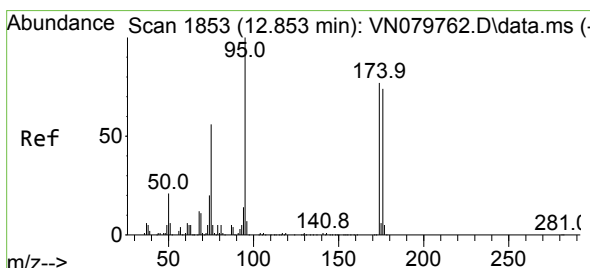
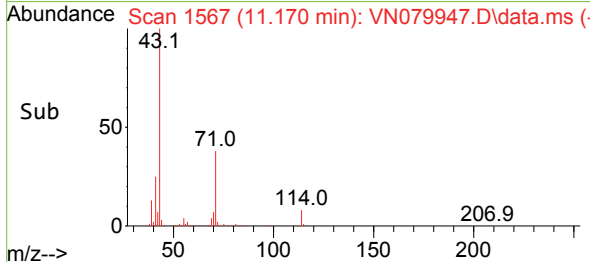
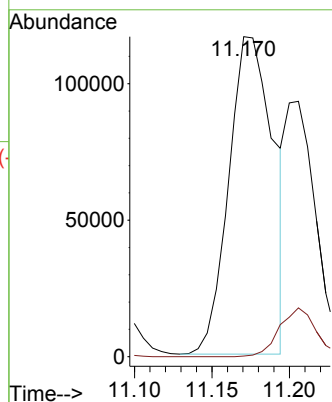
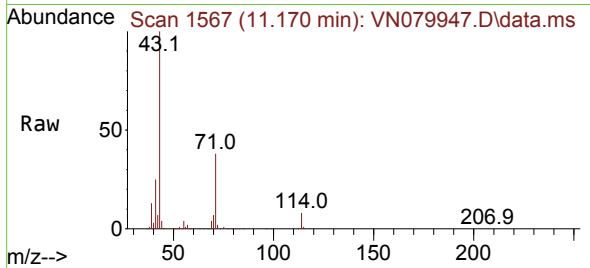




#59
2-Hexanone
Concen: 60.379 ug/l
RT: 11.170 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN079947.D
Acq: 07 Nov 2023 05:42

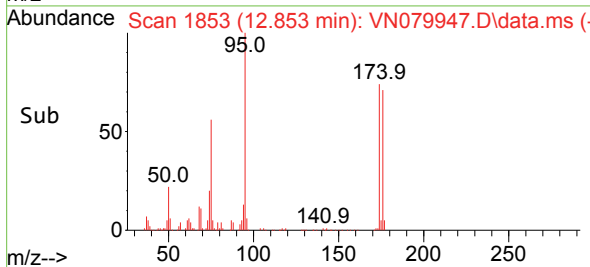
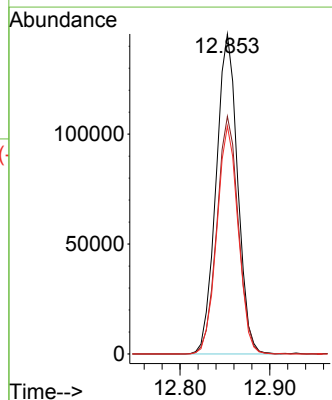
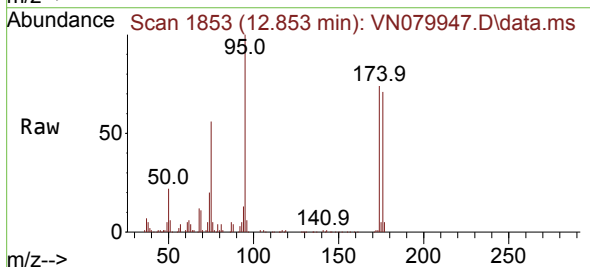
Instrument :
MSVOA_N
ClientSampleId :

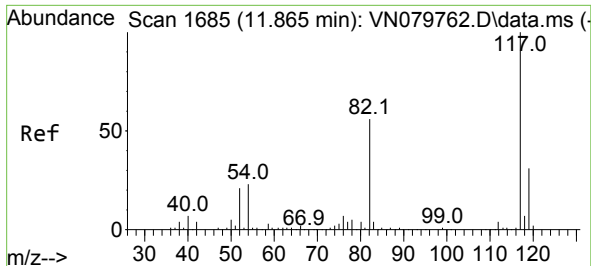
Tgt Ion: 43 Resp: 232450
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 51.003 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079947.D
Acq: 07 Nov 2023 05:42

Tgt Ion: 95 Resp: 242383
Ion Ratio Lower Upper
95 100
174 74.3 0.0 143.8
176 70.4 0.0 135.8

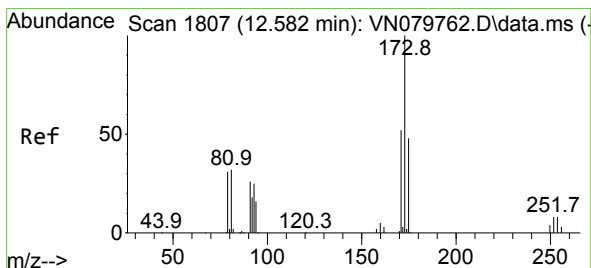
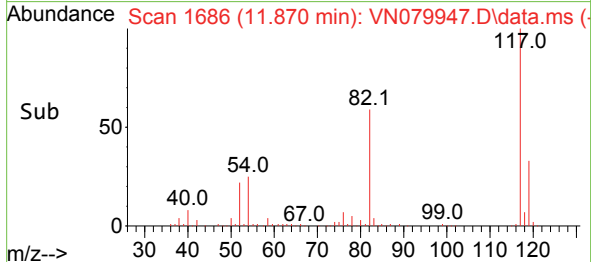
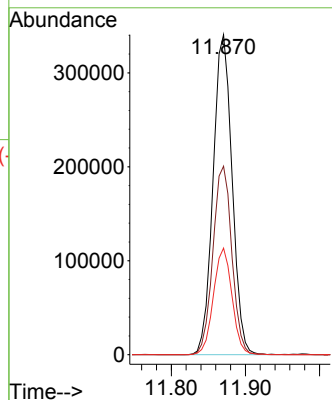
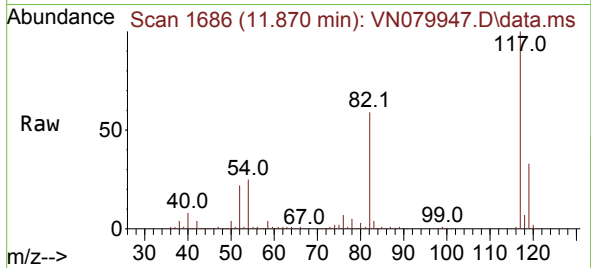




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN079947.D
Acq: 07 Nov 2023 05:42

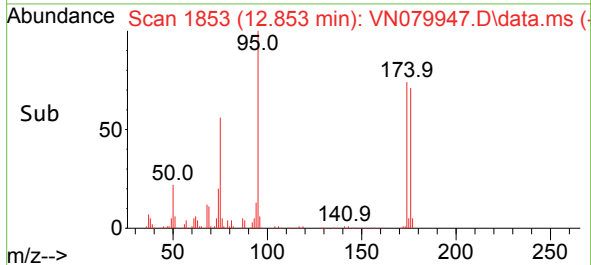
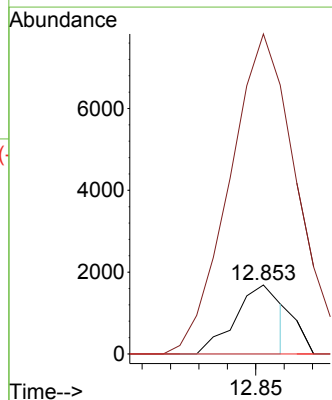
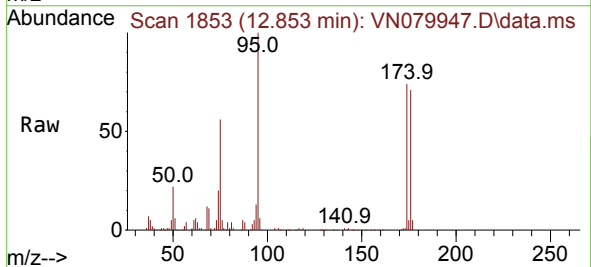
Instrument :
MSVOA_N
ClientSampleId :

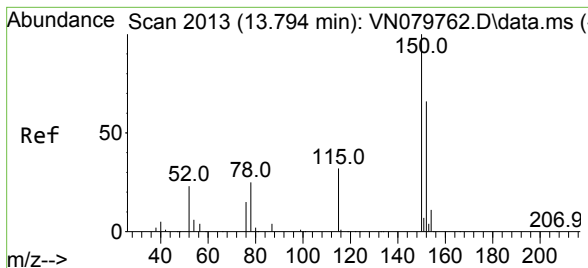
Tgt Ion:117 Resp: 606968
Ion Ratio Lower Upper
117 100
82 58.9 44.0 66.0
119 33.3 25.6 38.4



#71
Bromoform
Concen: 0.559 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN079947.D
Acq: 07 Nov 2023 05:42

Tgt Ion:173 Resp: 1882
Ion Ratio Lower Upper
173 100
175 539.2 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

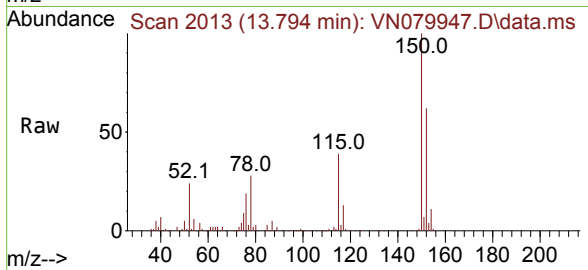
Lab File: VN079947.D

Acq: 07 Nov 2023 05:42

Instrument :

MSVOA_N

ClientSampleId :



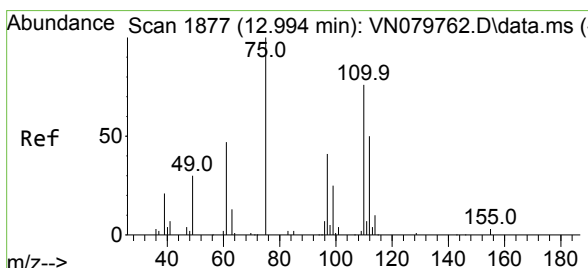
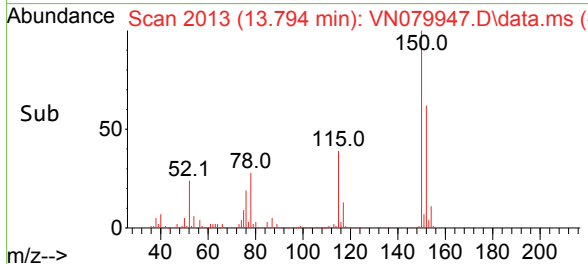
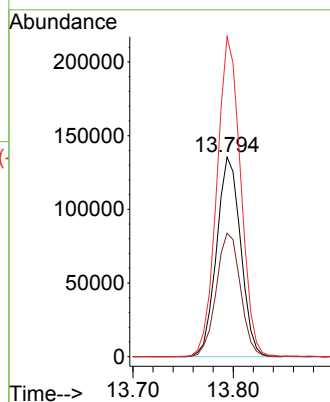
Tgt Ion:152 Resp: 225501

Ion Ratio Lower Upper

152 100

115 62.4 32.3 96.8

150 158.9 0.0 355.8



#76

1,2,3-Trichloropropane

Concen: 25.314 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN079947.D

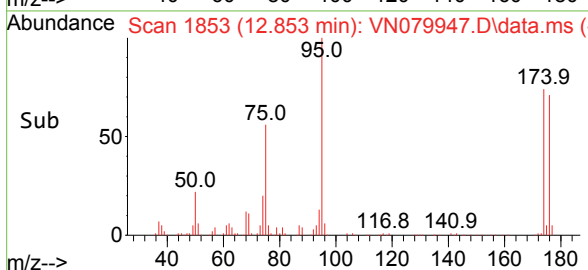
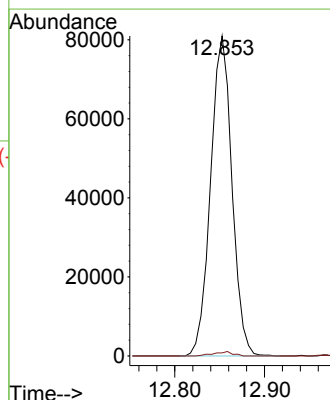
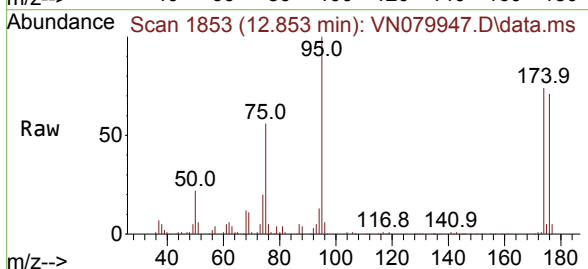
Acq: 07 Nov 2023 05:42

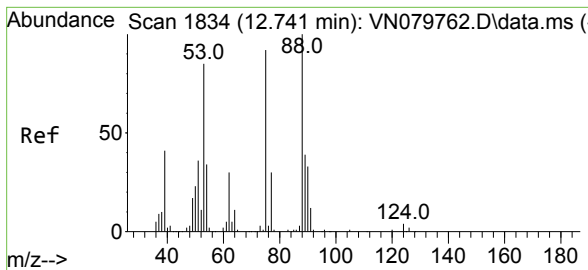
Tgt Ion: 75 Resp: 134013

Ion Ratio Lower Upper

75 100

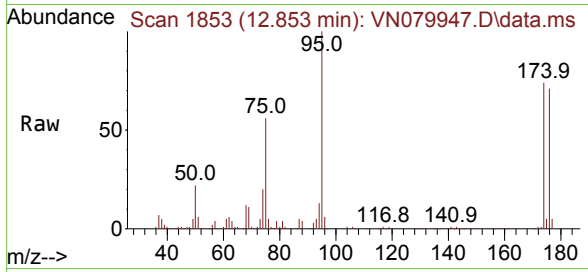
77 1.2 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.873 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN079947.D
 Acq: 07 Nov 2023 05:42

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 134013
 Ion Ratio Lower Upper
 75 100
 53 0.1 67.4 101.2#
 89 0.0 38.8 58.2#

