

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100623\
 Data File : VN079452.D
 Acq On : 06 Oct 2023 17:07
 Operator : JC\MD
 Sample : PB156147ZHE#07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 06 23:06:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N100523W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 06 03:34:49 2023
 Response via : Initial Calibration

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

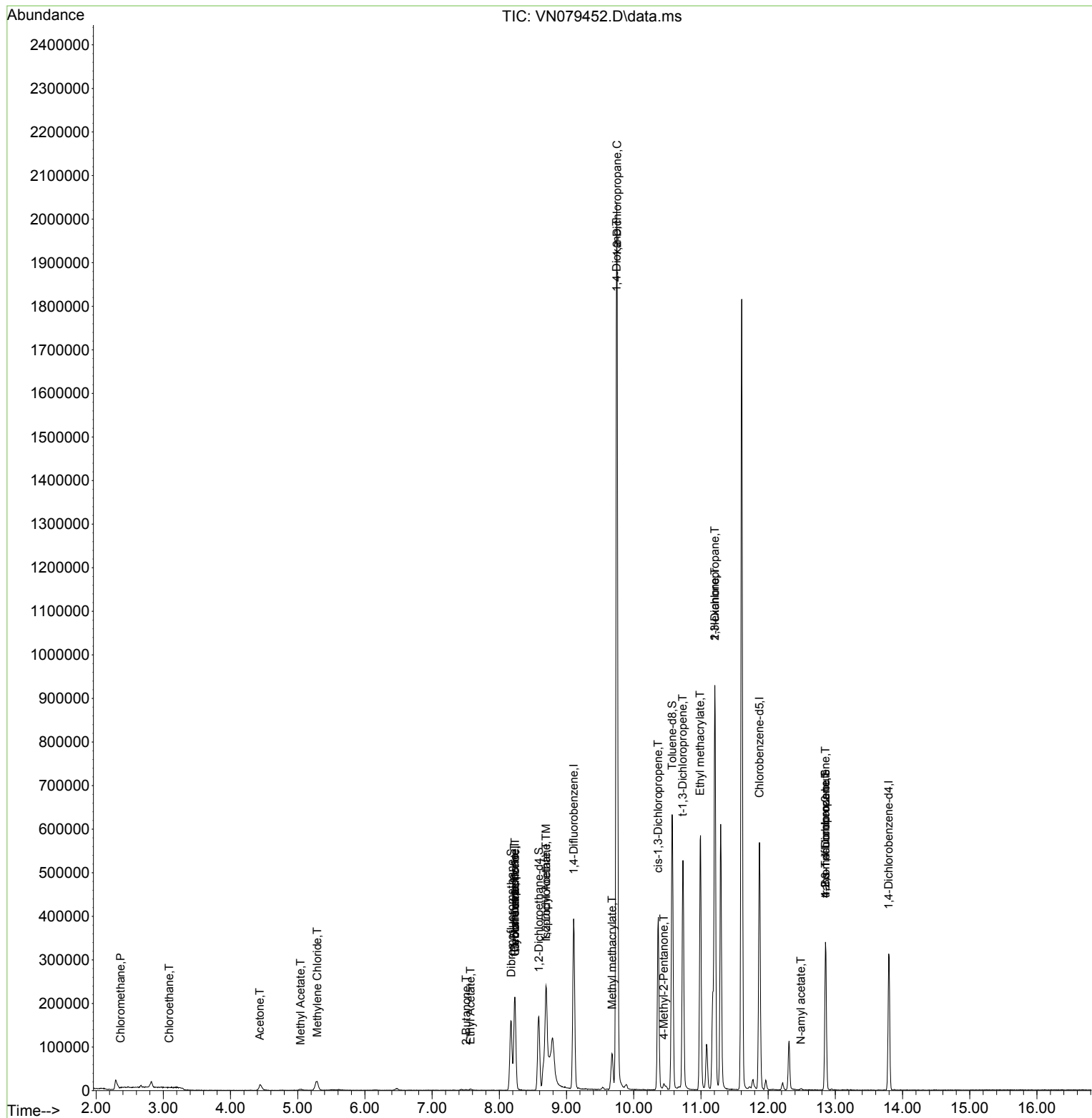
Internal Standards						
1) Pentafluorobenzene	8.230	168	146462	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	319180	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	310589	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	80703	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.589	65	139775	58.858	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 117.720%			
35) Dibromofluoromethane	8.177	113	113214	49.358	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.720%			
50) Toluene-d8	10.571	98	425209	51.234	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.460%			
62) 4-Bromofluorobenzene	12.853	95	111955	42.034	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 84.060%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	804	0.307	ug/l #	42
6) Chloroethane	3.089	64	827	0.403	ug/l #	43
16) Acetone	4.436	43	25860	27.455	ug/l #	79
18) Methyl Acetate	5.042	43	4881	1.059	ug/l #	64
20) Methylene Chloride	5.289	84	16598	7.536	ug/l	93
25) 2-Butanone	7.506	43	3213	2.298	ug/l #	37
31) Cyclohexane	8.230	56	4319	1.282	ug/l #	37
36) 1,1-Dichloropropene	8.224	75	14007	4.069	ug/l #	49
37) Ethyl Acetate	7.571	43	4944	1.443	ug/l #	76
38) Carbon Tetrachloride	8.236	117	16330	4.738	ug/l #	18
42) 1,2-Dichloroethane	8.694	62	1420	0.382	ug/l #	73
43) Isopropyl Acetate	8.694	43	324970	54.150	ug/l #	69
45) 1,2-Dichloropropane	9.753	63	2741	1.018	ug/l #	45
48) Methyl methacrylate	9.677	41	5719	2.224	ug/l #	32
49) 1,4-Dioxane	9.747	88	62	1.309	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	8220	2.426	ug/l	100
53) t-1,3-Dichloropropene	10.730	75	1431	0.396	ug/l #	6
54) cis-1,3-Dichloropropene	10.365	75	67081	16.944	ug/l #	72
56) Ethyl methacrylate	10.988	69	3451	1.039	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	9420	2.258	ug/l #	42
59) 2-Hexanone	11.206	43	118742	48.573	ug/l #	46
74) N-amyl acetate	12.488	43	1308	0.425	ug/l #	36
75) 1,1,2,2-Tetrachloroethane	12.859	83	77	Below Cal	#	7
76) 1,2,3-Trichloropropane	12.853	75	63178	27.151	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	63178	78.781	ug/l #	15

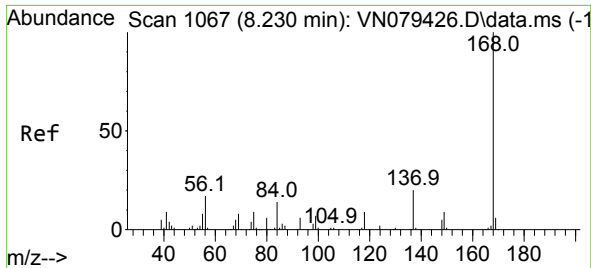
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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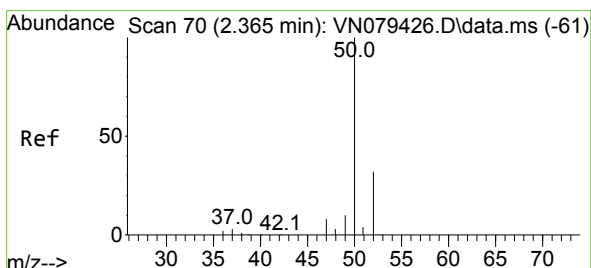
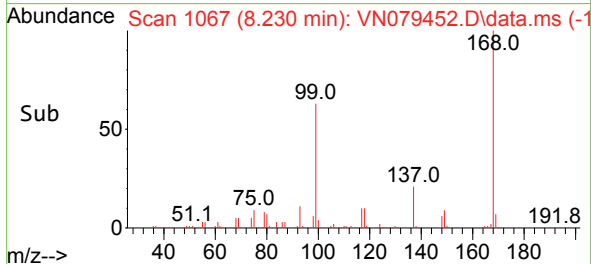
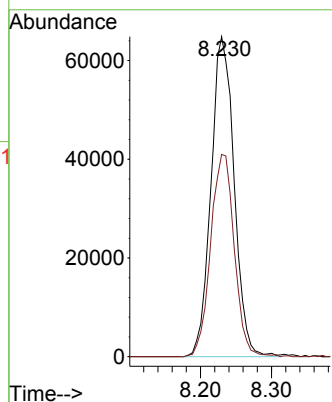
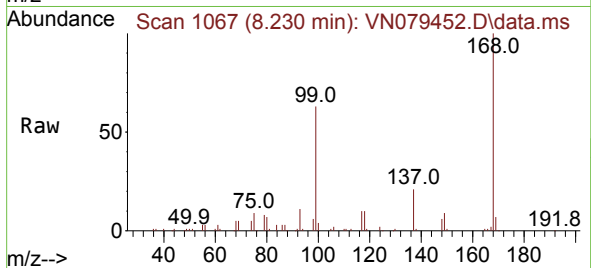




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN079452.D
Acq: 06 Oct 2023 17:07

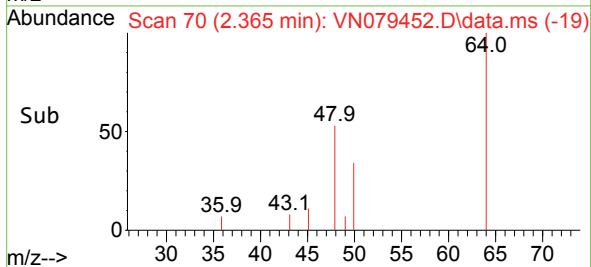
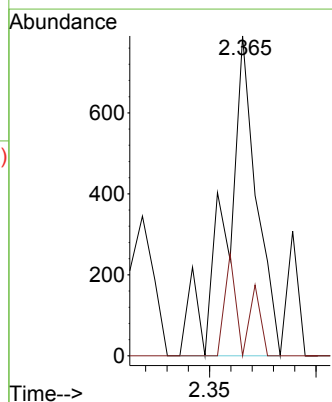
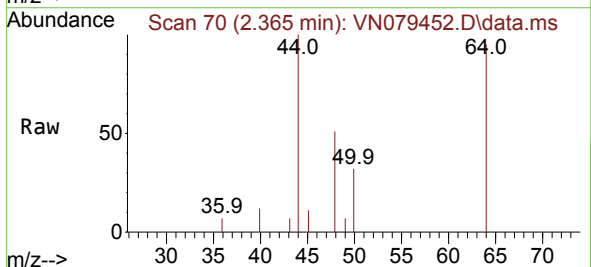
Instrument :
MSVOA_N
ClientSampleId :

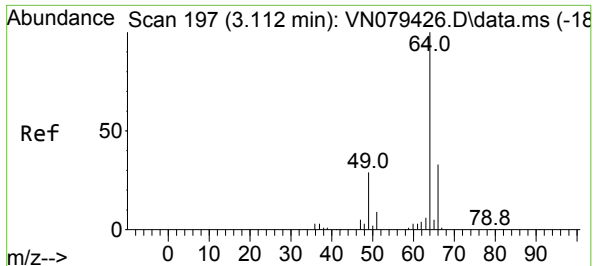
Tgt Ion:168 Resp: 146462
Ion Ratio Lower Upper
168 100
99 63.2 53.0 79.6



#3
Chloromethane
Concen: 0.307 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN079452.D
Acq: 06 Oct 2023 17:07

Tgt Ion: 50 Resp: 804
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

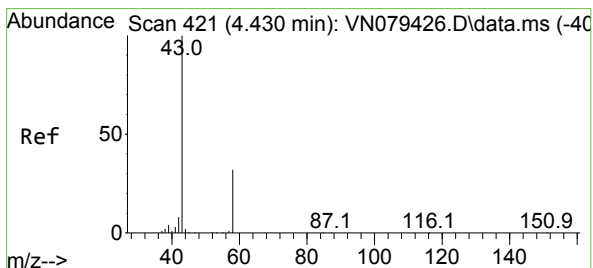
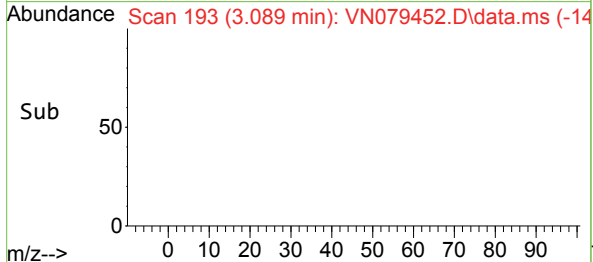
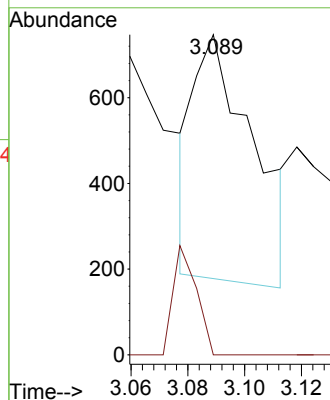
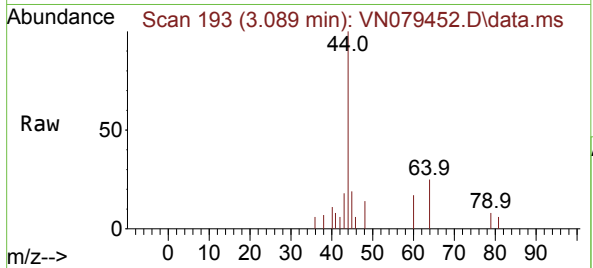




#6
Chloroethane
Concen: 0.403 ug/l
RT: 3.089 min Scan# 197
Delta R.T. -0.023 min
Lab File: VN079452.D
Acq: 06 Oct 2023 17:07

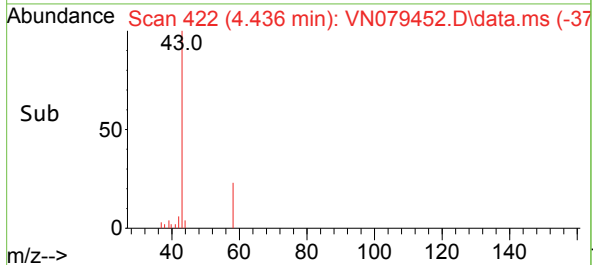
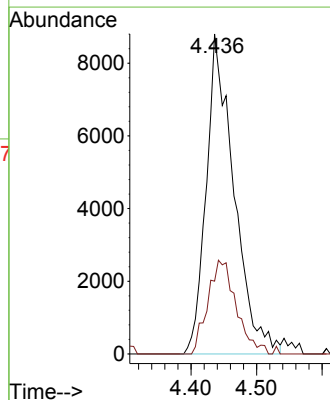
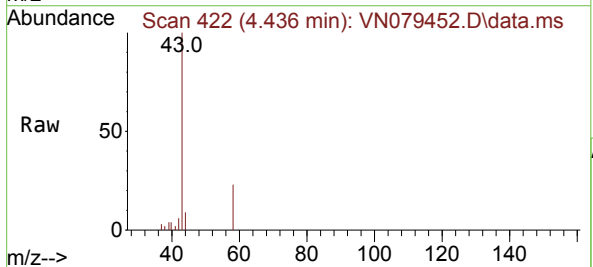
Instrument :
MSVOA_N
ClientSampleId :

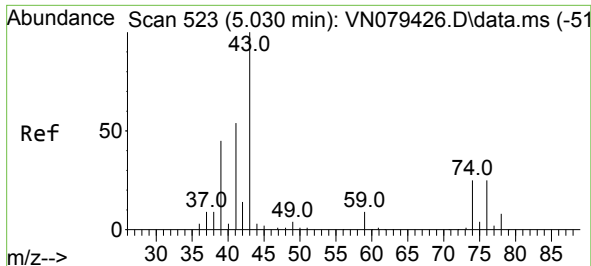
Tgt Ion: 64 Resp: 827
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#16
Acetone
Concen: 27.455 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.006 min
Lab File: VN079452.D
Acq: 06 Oct 2023 17:07

Tgt Ion: 43 Resp: 25860
Ion Ratio Lower Upper
43 100
58 22.7 28.0 42.0#

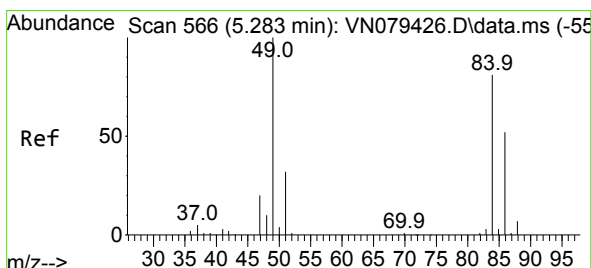
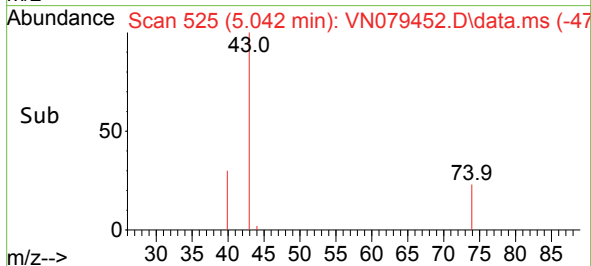
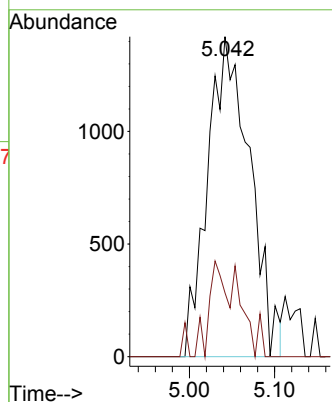
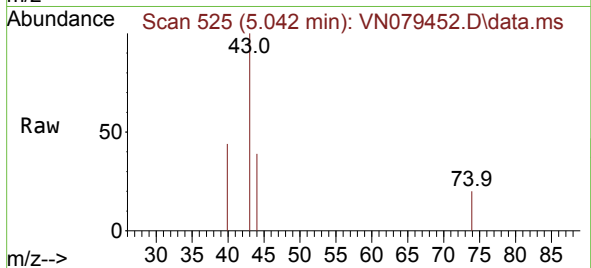




#18
Methyl Acetate
Concen: 1.059 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN079452.D
Acq: 06 Oct 2023 17:07

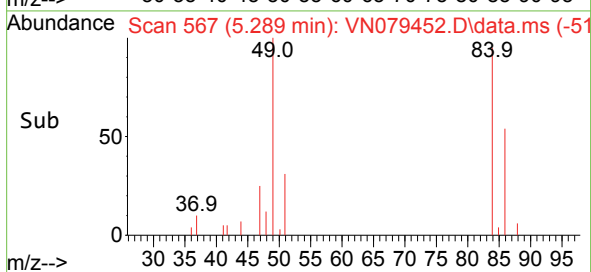
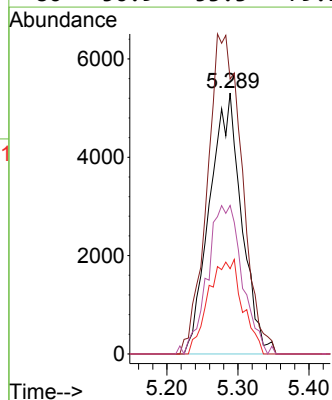
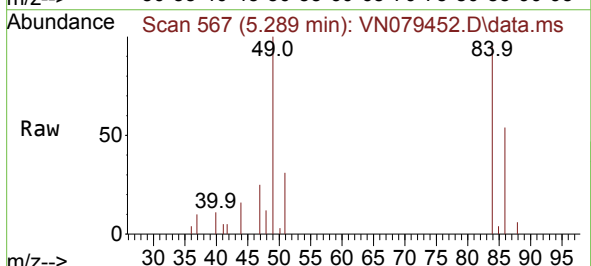
Instrument :
MSVOA_N
ClientSampleId :

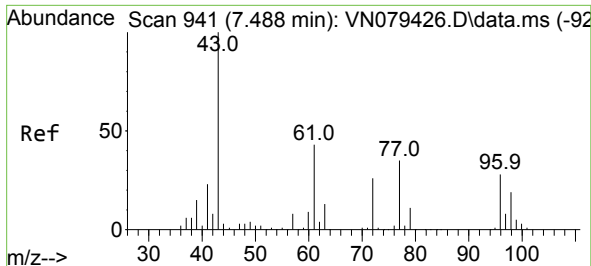
Tgt Ion: 43 Resp: 4881
Ion Ratio Lower Upper
43 100
74 12.5 26.2 39.4#



#20
Methylene Chloride
Concen: 7.536 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN079452.D
Acq: 06 Oct 2023 17:07

Tgt Ion: 84 Resp: 16598
Ion Ratio Lower Upper
84 100
49 105.4 79.7 119.5
51 32.7 25.2 37.8
86 56.9 53.3 79.9

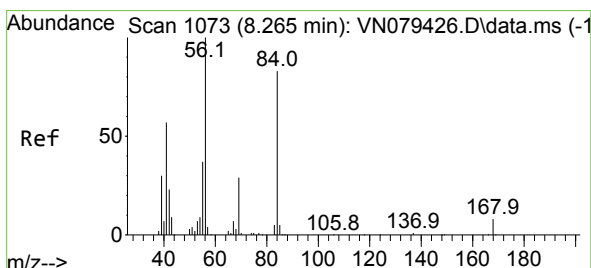
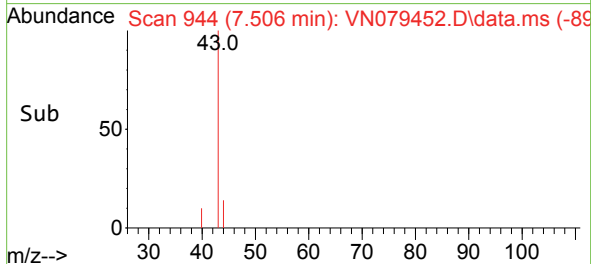
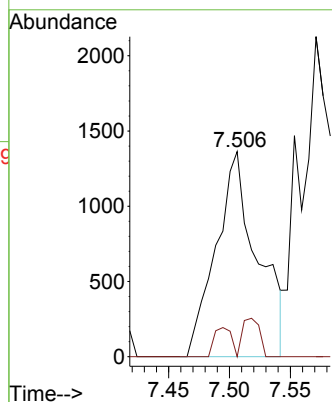
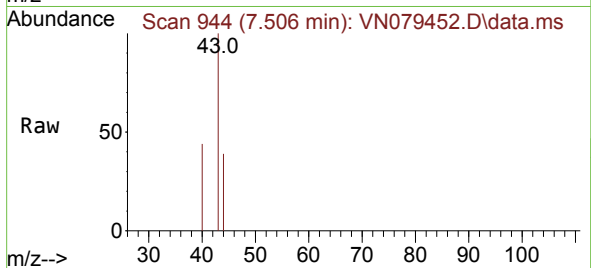




#25
2-Butanone
Concen: 2.298 ug/l
RT: 7.506 min Scan# 941
Delta R.T. 0.018 min
Lab File: VN079452.D
Acq: 06 Oct 2023 17:07

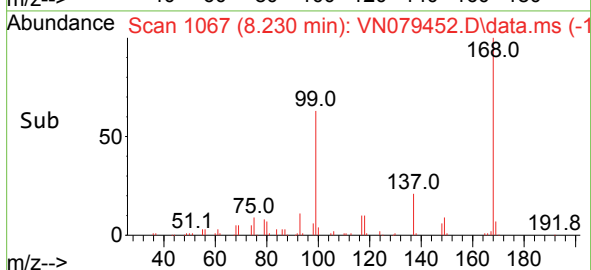
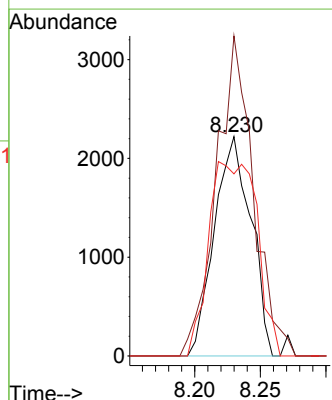
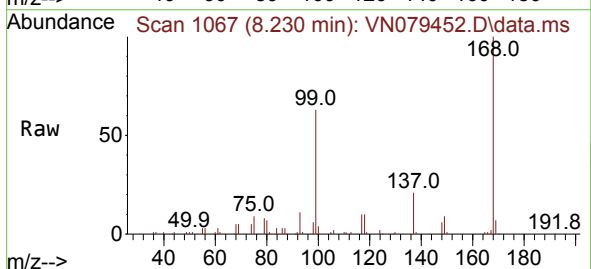
Instrument :
MSVOA_N
ClientSampleId :

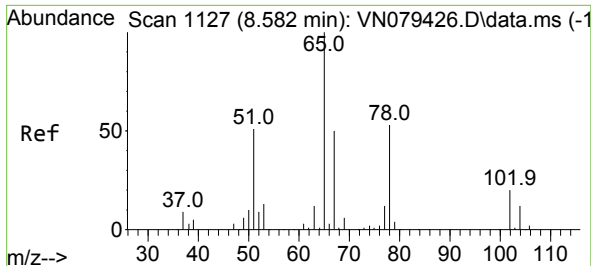
Tgt Ion: 43 Resp: 3213
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#



#31
Cyclohexane
Concen: 1.282 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN079452.D
Acq: 06 Oct 2023 17:07

Tgt Ion: 56 Resp: 4319
Ion Ratio Lower Upper
56 100
69 145.9 26.8 40.2#
84 83.0 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 58.858 ug/l

RT: 8.589 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN079452.D

Acq: 06 Oct 2023 17:07

Instrument :

MSVOA_N

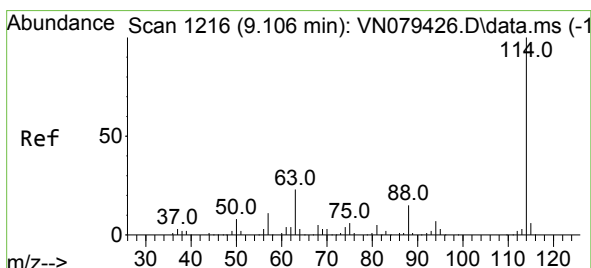
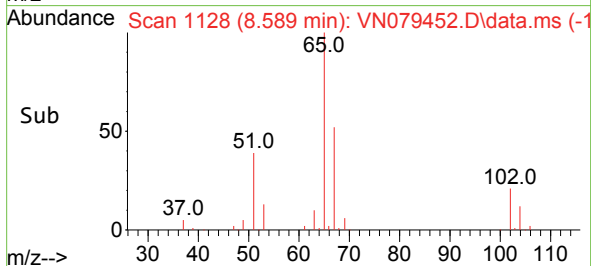
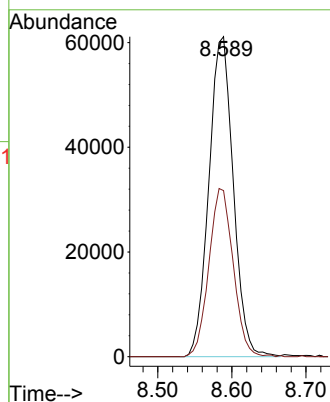
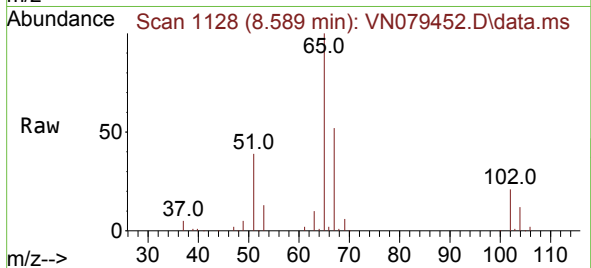
ClientSampleId :

Tgt Ion: 65 Resp: 139775

Ion Ratio Lower Upper

65 100

67 52.4 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: VN079452.D

Acq: 06 Oct 2023 17:07

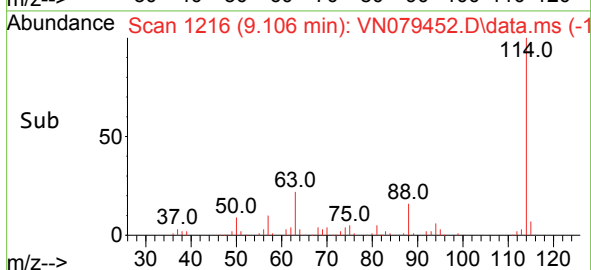
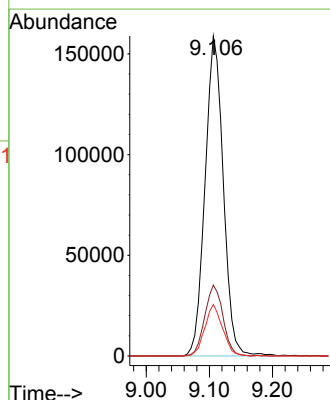
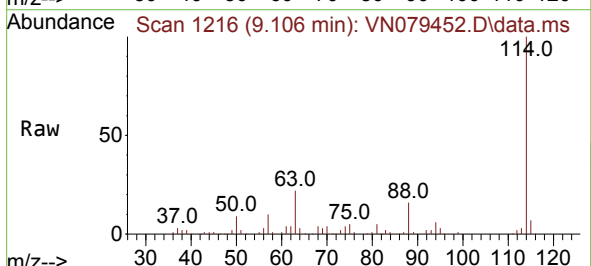
Tgt Ion: 114 Resp: 319180

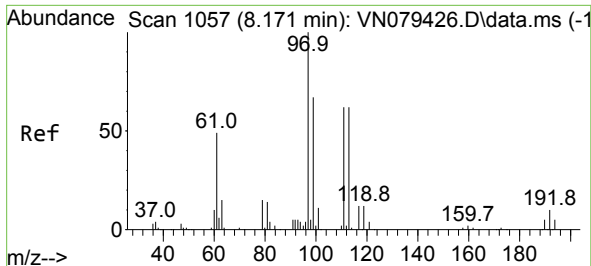
Ion Ratio Lower Upper

114 100

63 22.2 0.0 36.4

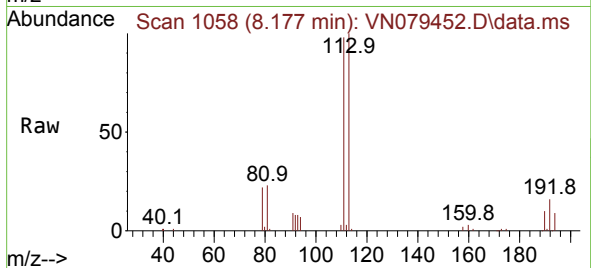
88 16.1 0.0 30.6



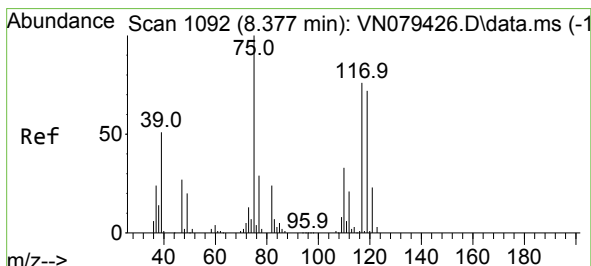
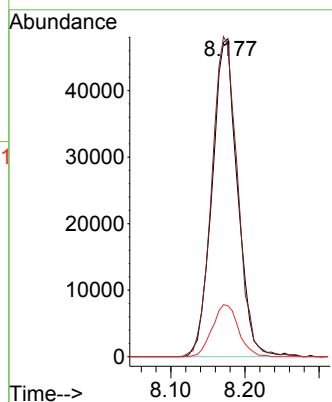
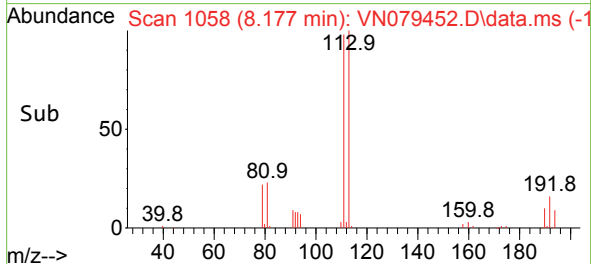


#35
Dibromofluoromethane
Concen: 49.358 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN079452.D
Acq: 06 Oct 2023 17:07

Instrument :
MSVOA_N
ClientSampleId :

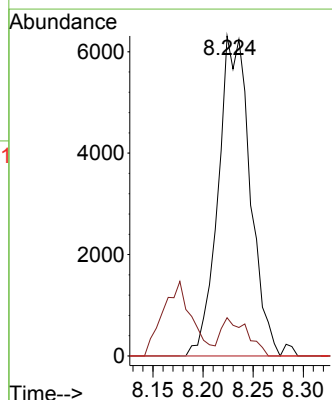
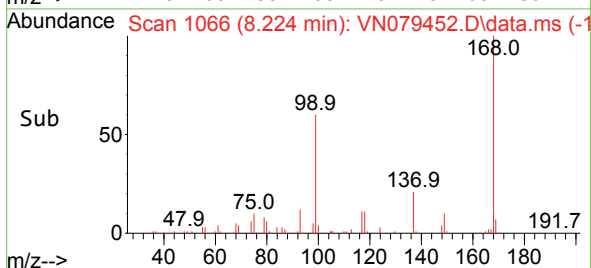
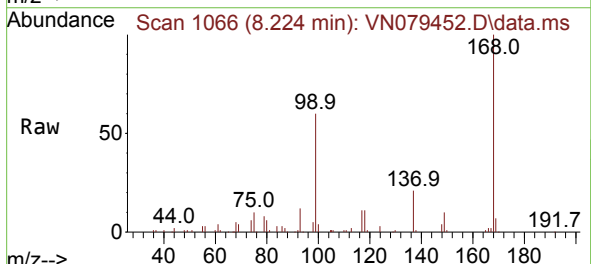


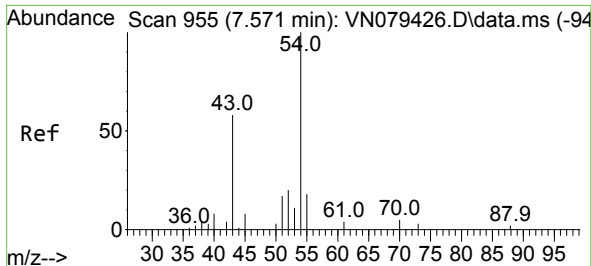
Tgt Ion:113 Resp: 113214
Ion Ratio Lower Upper
113 100
111 103.2 82.6 123.8
192 17.0 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.069 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.153 min
Lab File: VN079452.D
Acq: 06 Oct 2023 17:07

Tgt Ion: 75 Resp: 14007
Ion Ratio Lower Upper
75 100
110 9.7 19.1 57.3#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 1.443 ug/l

RT: 7.571 min Scan# 91

Delta R.T. 0.000 min

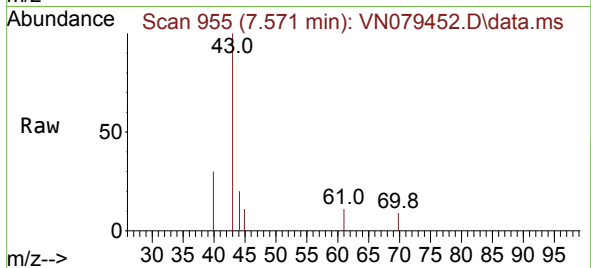
Lab File: VN079452.D

Acq: 06 Oct 2023 17:07

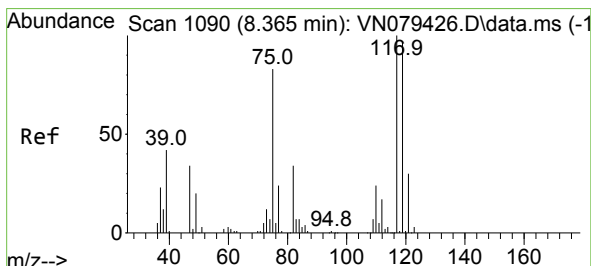
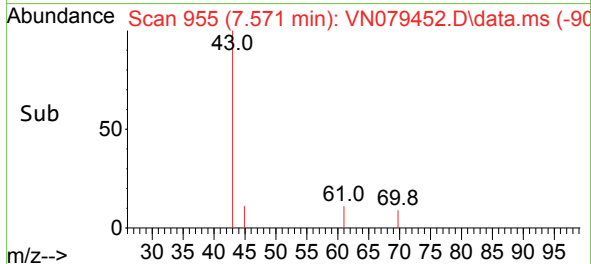
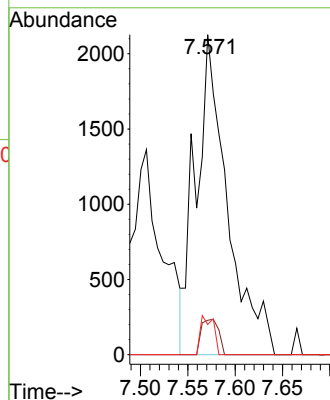
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	4944
Ion	Ratio	Lower	Upper
43	100		
61	6.0	13.2	19.8#
70	5.0	11.3	16.9#



#38

Carbon Tetrachloride

Concen: 4.738 ug/l

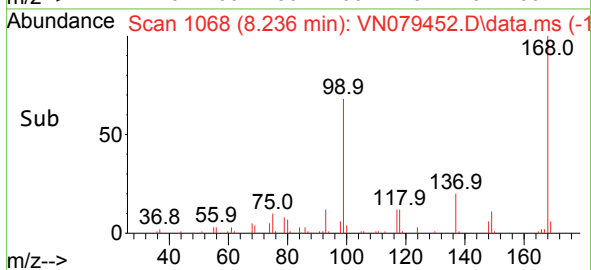
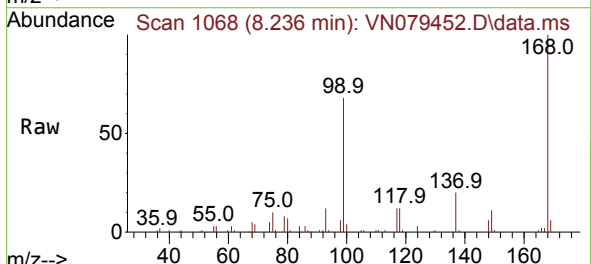
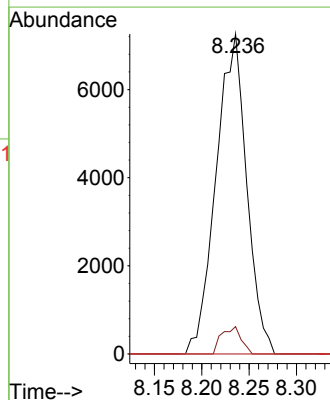
RT: 8.236 min Scan# 1068

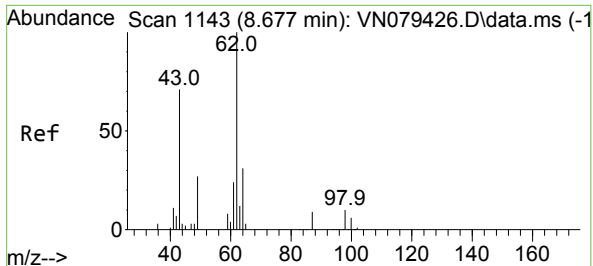
Delta R.T. -0.129 min

Lab File: VN079452.D

Acq: 06 Oct 2023 17:07

Tgt Ion:	117	Resp:	16330
Ion	Ratio	Lower	Upper
117	100		
119	8.5	77.3	115.9#
121	0.0	23.3	34.9#





#42

1,2-Dichloroethane

Concen: 0.382 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.018 min

Lab File: VN079452.D

Acq: 06 Oct 2023 17:07

Instrument :

MSVOA_N

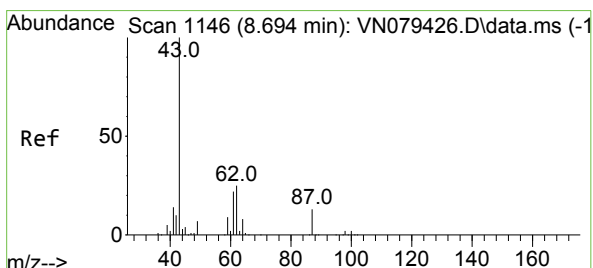
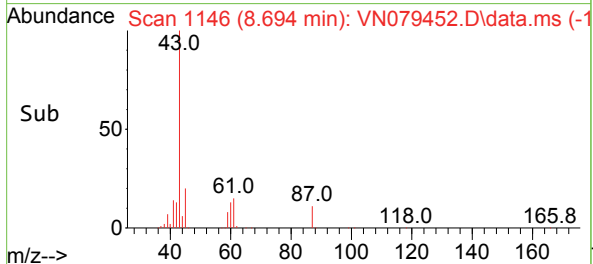
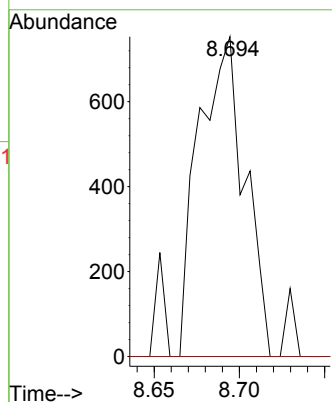
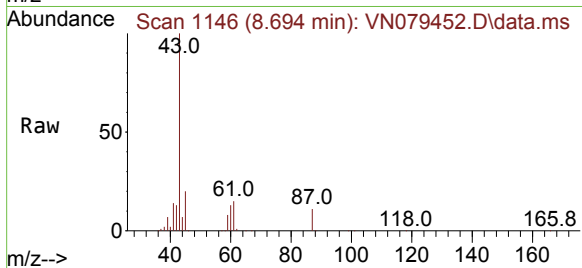
ClientSampleId :

Tgt Ion: 62 Resp: 1420

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 54.150 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN079452.D

Acq: 06 Oct 2023 17:07

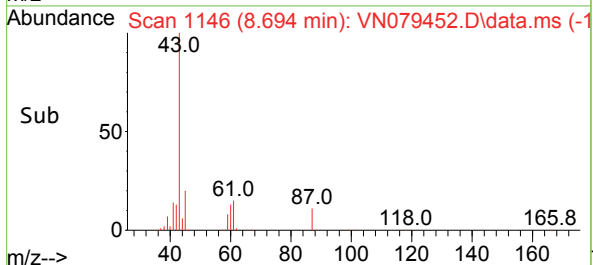
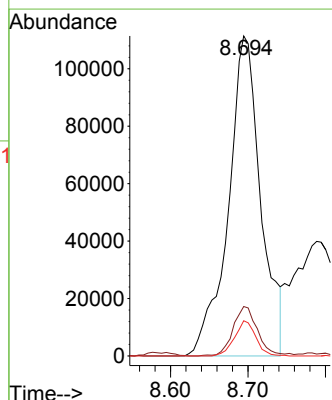
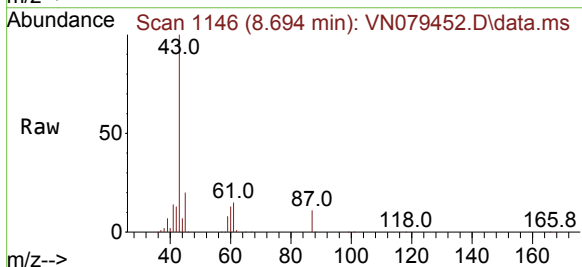
Tgt Ion: 43 Resp: 324970

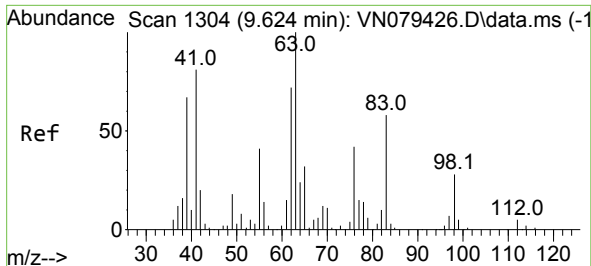
Ion Ratio Lower Upper

43 100

61 11.7 24.7 37.1#

87 7.2 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 1.018 ug/l

RT: 9.753 min Scan# 11

Delta R.T. 0.130 min

Lab File: VN079452.D

Acq: 06 Oct 2023 17:07

Instrument :

MSVOA_N

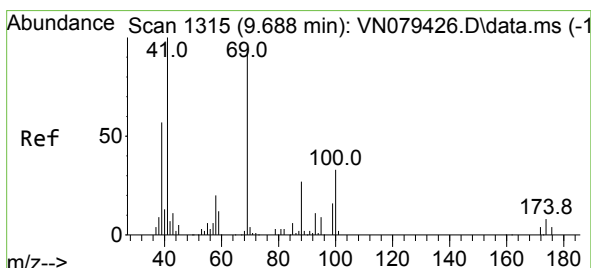
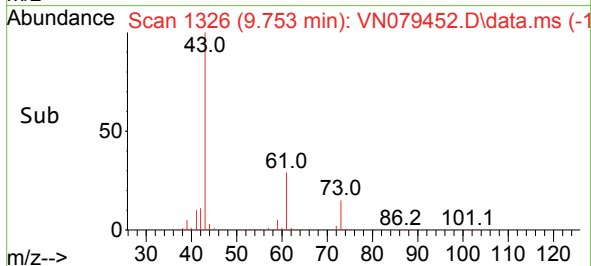
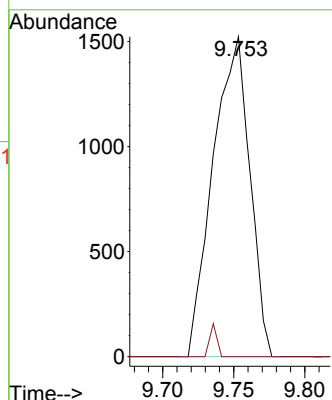
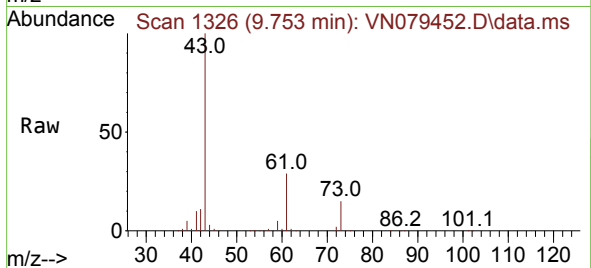
ClientSampleId :

Tgt Ion: 63 Resp: 2741

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 2.224 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.012 min

Lab File: VN079452.D

Acq: 06 Oct 2023 17:07

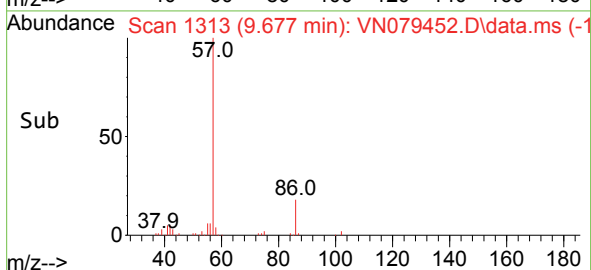
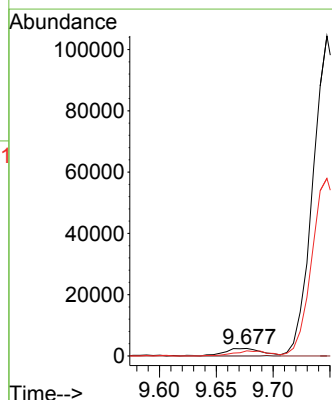
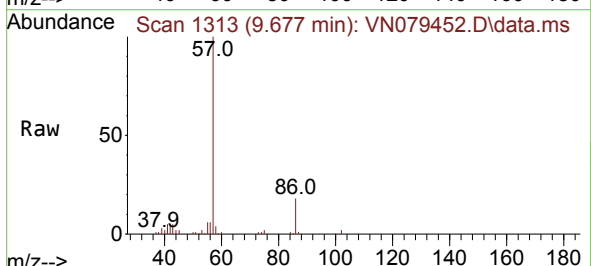
Tgt Ion: 41 Resp: 5719

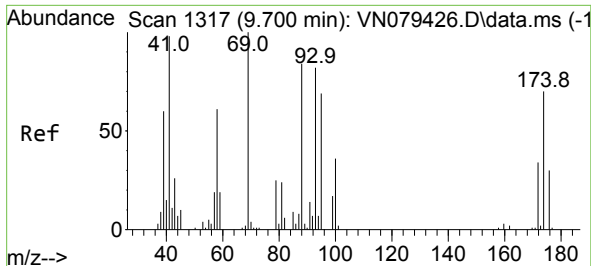
Ion Ratio Lower Upper

41 100

69 0.9 90.4 135.6#

39 62.6 54.6 81.8





#49

1,4-Dioxane

Concen: 1.309 ug/l

RT: 9.747 min Scan# 1317

Delta R.T. 0.047 min

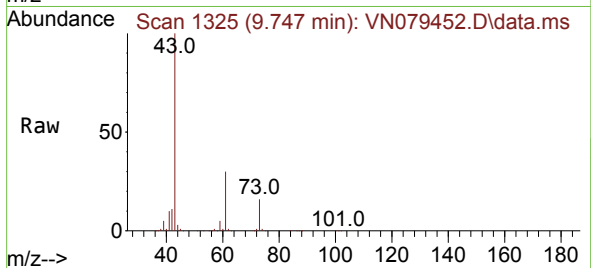
Lab File: VN079452.D

Acq: 06 Oct 2023 17:07

Instrument :

MSVOA_N

ClientSampleId :



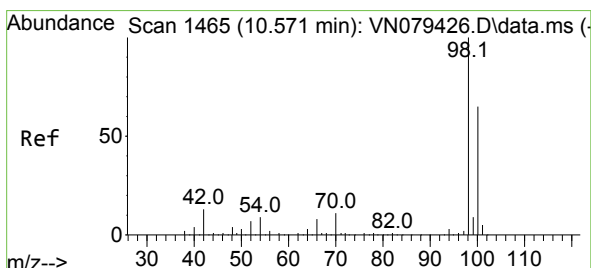
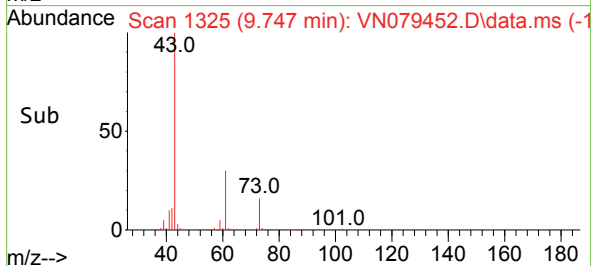
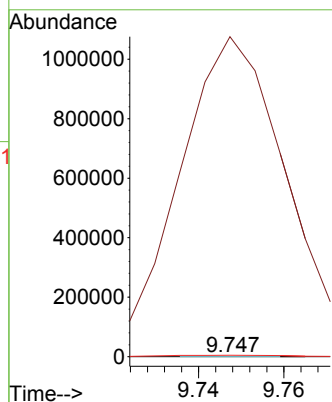
Tgt Ion: 88 Resp: 62

Ion Ratio Lower Upper

88 100

43 3130690.3 17.0 25.6#

58 16917.7 47.0 70.4#



#50

Toluene-d8

Concen: 51.234 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN079452.D

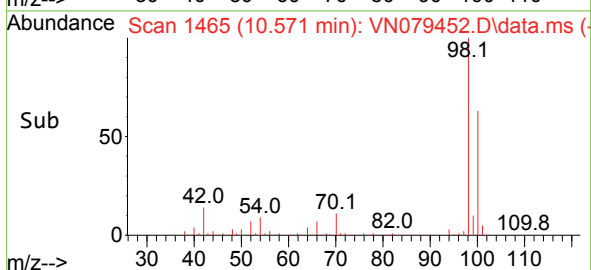
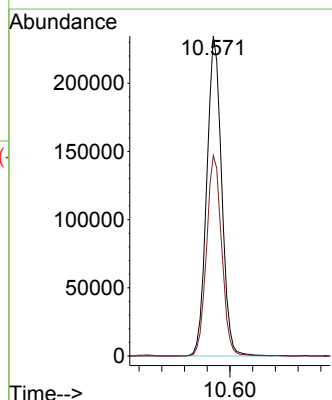
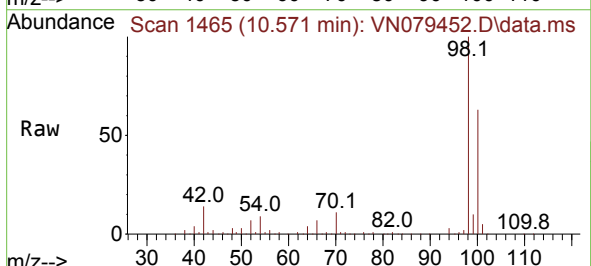
Acq: 06 Oct 2023 17:07

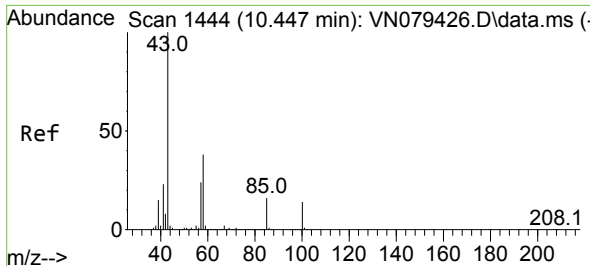
Tgt Ion: 98 Resp: 425209

Ion Ratio Lower Upper

98 100

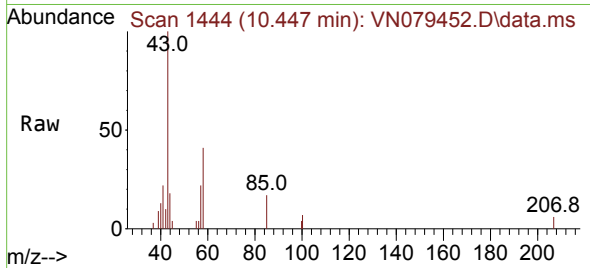
100 63.6 52.0 78.0



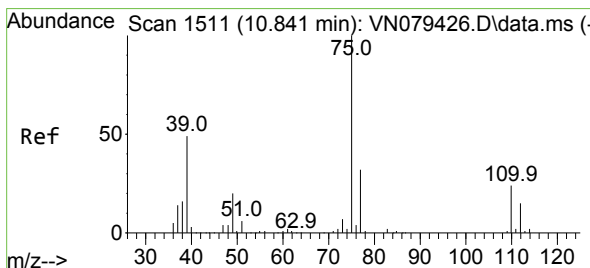
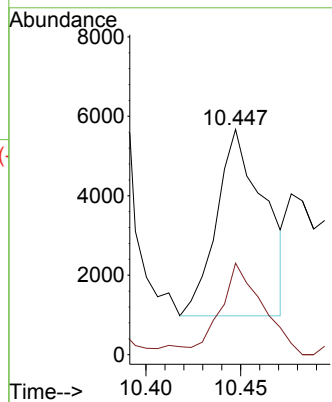
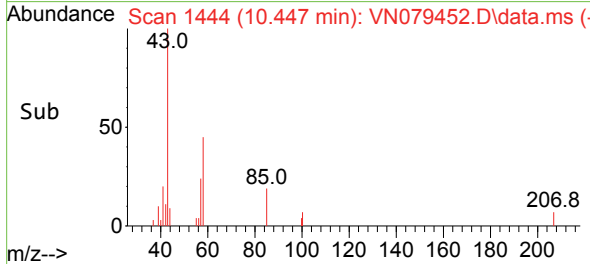


#51
4-Methyl-2-Pentanone
Concen: 2.426 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN079452.D
Acq: 06 Oct 2023 17:07

Instrument :
MSVOA_N
ClientSampleId :

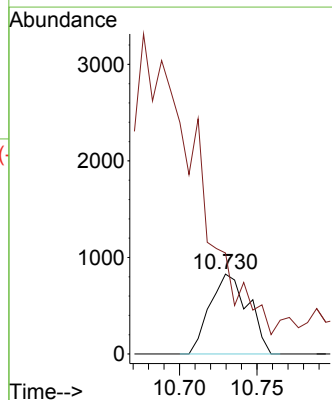
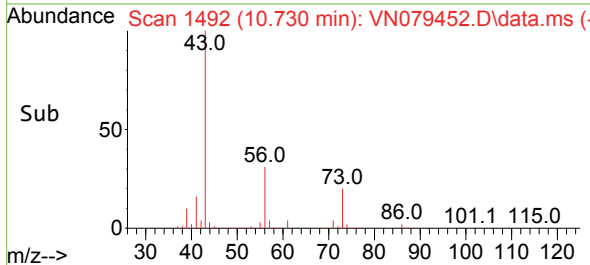
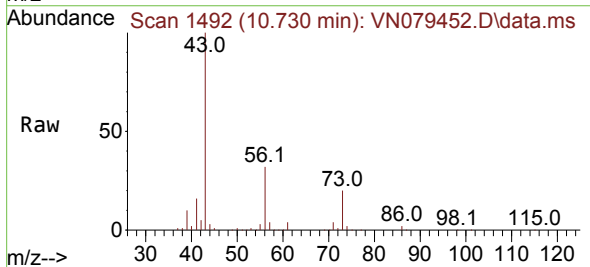


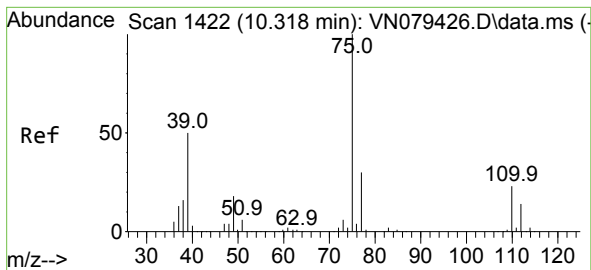
Tgt Ion: 43 Resp: 8220
Ion Ratio Lower Upper
43 100
58 45.4 36.6 54.8



#53
t-1,3-Dichloropropene
Concen: 0.396 ug/l
RT: 10.730 min Scan# 1492
Delta R.T. -0.112 min
Lab File: VN079452.D
Acq: 06 Oct 2023 17:07

Tgt Ion: 75 Resp: 1431
Ion Ratio Lower Upper
75 100
77 84.2 25.4 38.0#

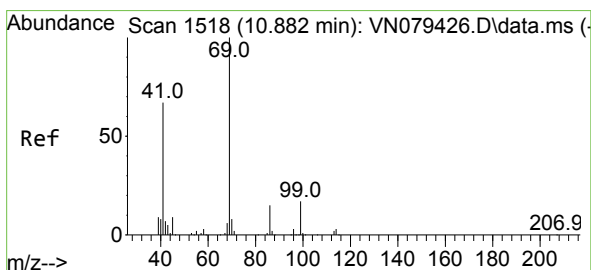
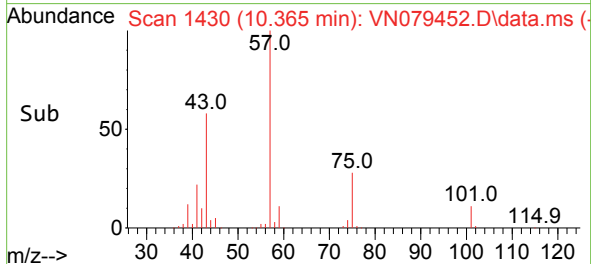
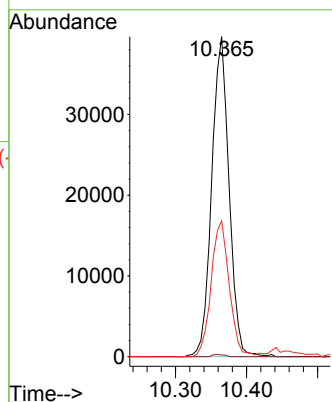
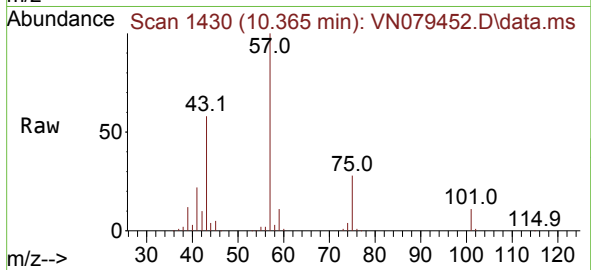




#54
 cis-1,3-Dichloropropene
 Concen: 16.944 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN079452.D
 Acq: 06 Oct 2023 17:07

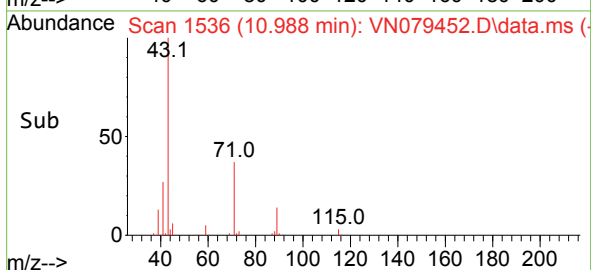
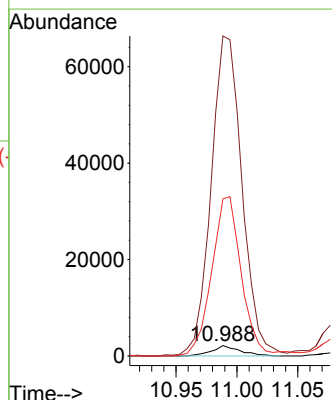
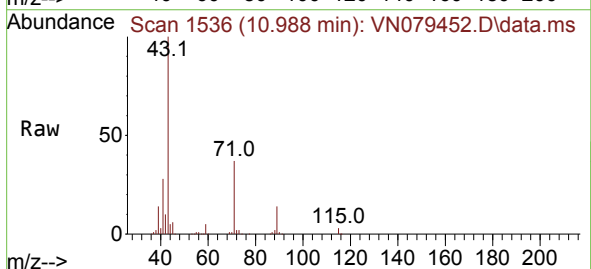
Instrument :
 MSVOA_N
 ClientSampleId :

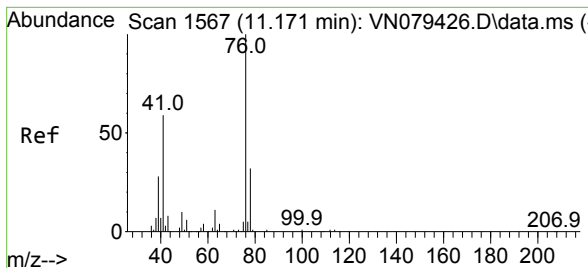
Tgt Ion: 75 Resp: 67081
 Ion Ratio Lower Upper
 75 100
 77 0.5 26.1 39.1#
 39 42.5 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 1.039 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.106 min
 Lab File: VN079452.D
 Acq: 06 Oct 2023 17:07

Tgt Ion: 69 Resp: 3451
 Ion Ratio Lower Upper
 69 100
 41 3402.7 39.6 59.4#
 39 1635.7 28.6 43.0#

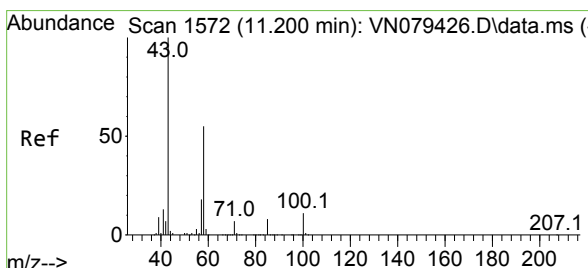
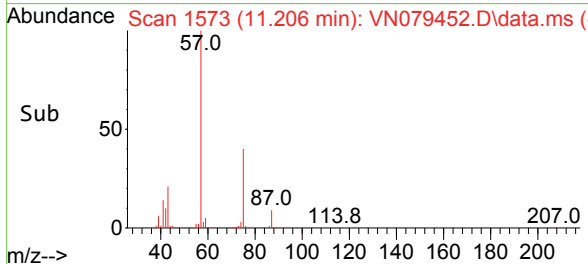
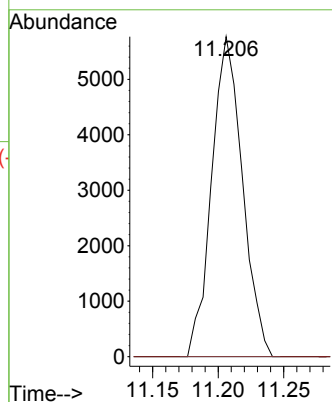
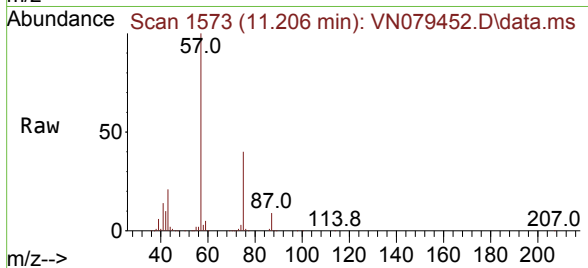




#57
1,3-Dichloropropane
Concen: 2.258 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.036 min
Lab File: VN079452.D
Acq: 06 Oct 2023 17:07

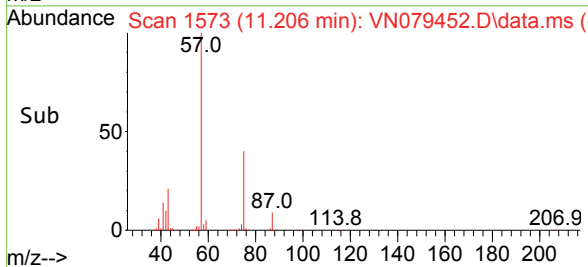
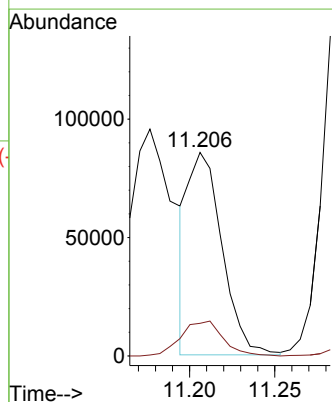
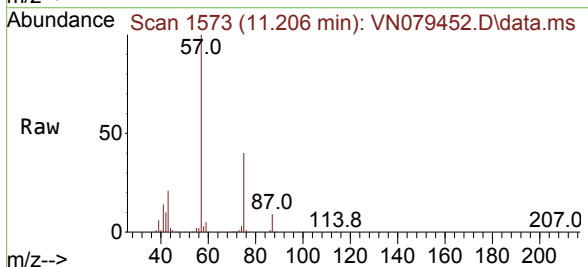
Instrument :
MSVOA_N
ClientSampleId :

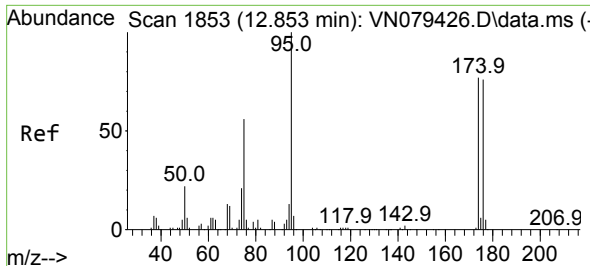
Tgt Ion: 76 Resp: 9420
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#



#59
2-Hexanone
Concen: 48.573 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.006 min
Lab File: VN079452.D
Acq: 06 Oct 2023 17:07

Tgt Ion: 43 Resp: 118742
Ion Ratio Lower Upper
43 100
58 21.4 31.7 95.1#

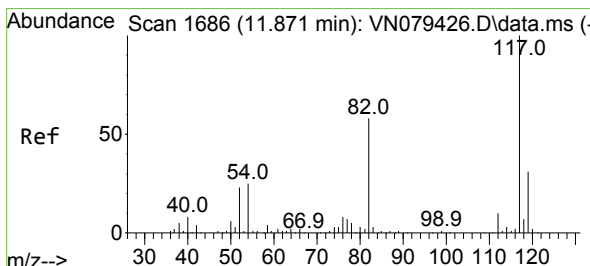
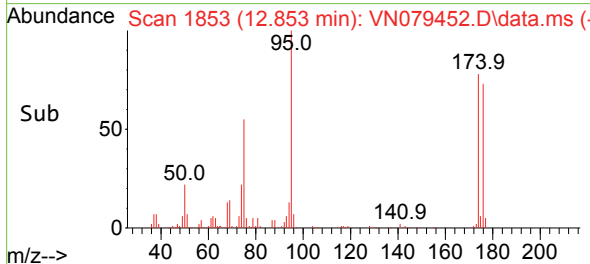
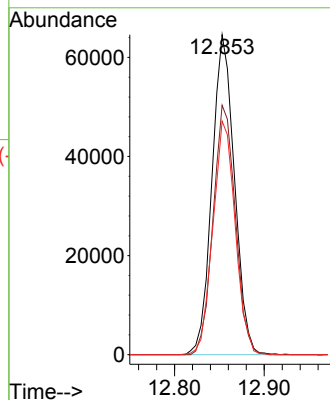
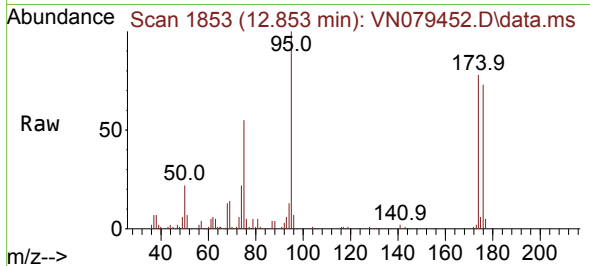




#62
4-Bromofluorobenzene
Concen: 42.034 ug/l
RT: 12.853 min Scan# 111955
Delta R.T. 0.000 min
Lab File: VN079452.D
Acq: 06 Oct 2023 17:07

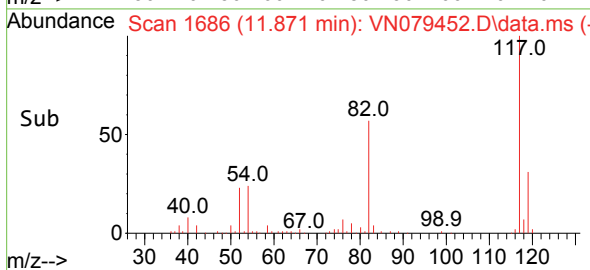
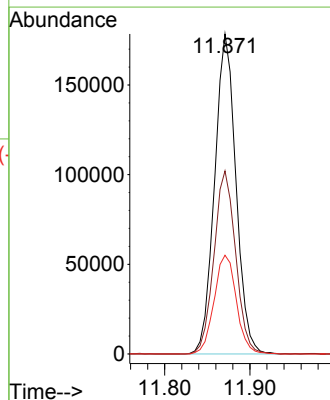
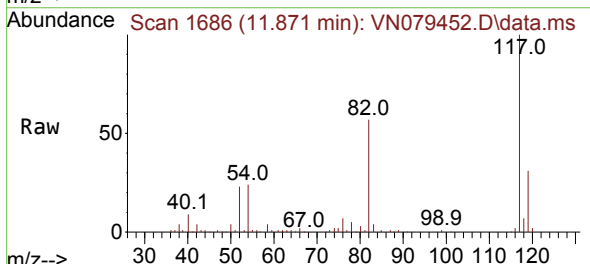
Instrument :
MSVOA_N
ClientSampleId :

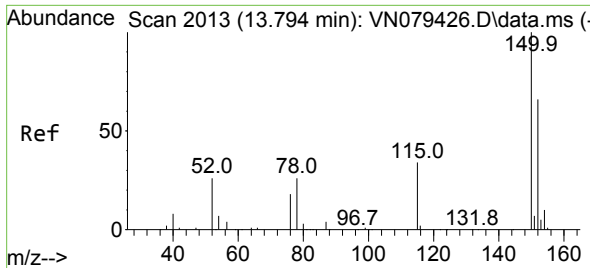
Tgt Ion	Ratio	Lower	Upper
95	100		
174	77.5	0.0	143.8
176	72.7	0.0	135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN079452.D
Acq: 06 Oct 2023 17:07

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.2	44.0	66.0
119	30.8	25.6	38.4

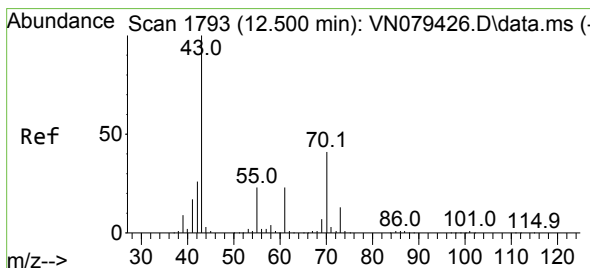
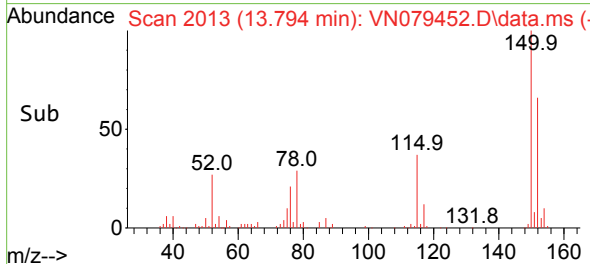
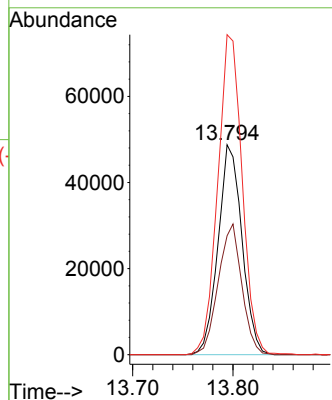
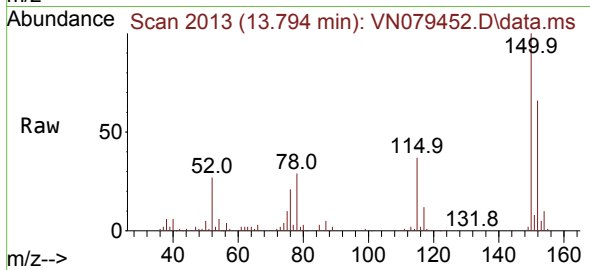




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN079452.D
 Acq: 06 Oct 2023 17:07

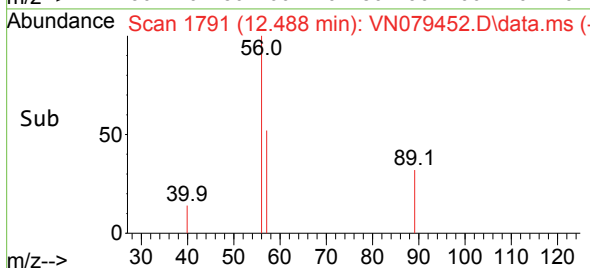
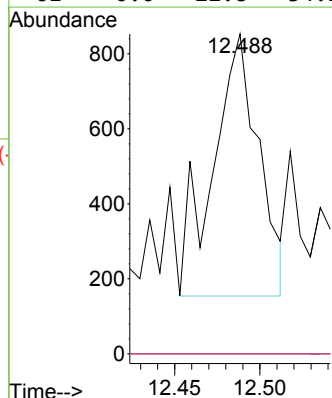
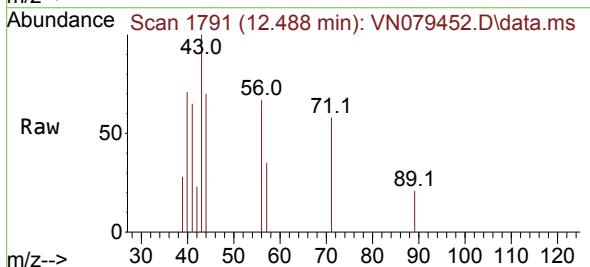
Instrument :
 MSVOA_N
 ClientSampleId :

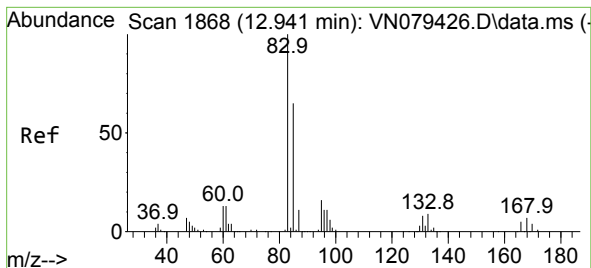
Tgt Ion:152 Resp: 80703
 Ion Ratio Lower Upper
 152 100
 115 61.2 32.3 96.8
 150 155.6 0.0 355.8



#74
 N-ethyl acetate
 Concen: 0.425 ug/l
 RT: 12.488 min Scan# 1791
 Delta R.T. -0.012 min
 Lab File: VN079452.D
 Acq: 06 Oct 2023 17:07

Tgt Ion: 43 Resp: 1308
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.4 65.2#
 55 0.0 21.4 32.0#
 61 0.0 22.8 34.2#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.859 min Scan# 1854

Delta R.T. -0.082 min

Lab File: VN079452.D

Acq: 06 Oct 2023 17:07

Instrument :

MSVOA_N

ClientSampleId :

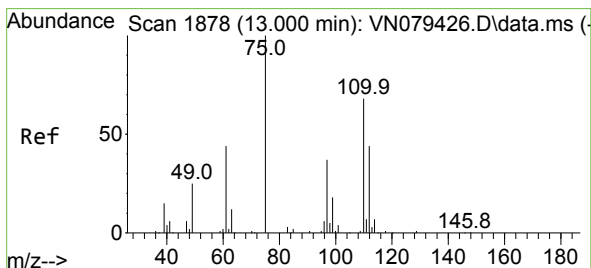
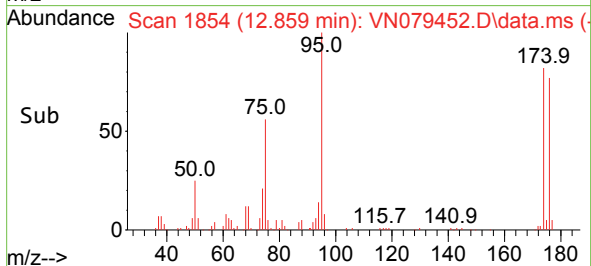
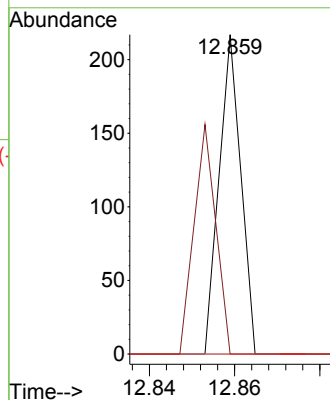
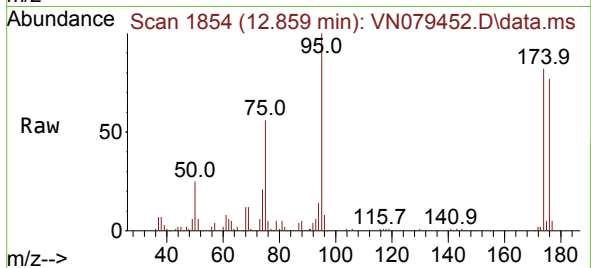
Tgt Ion: 83 Resp: 77

Ion Ratio Lower Upper

83 100

131 71.4 5.0 15.0#

85 0.0 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 27.151 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079452.D

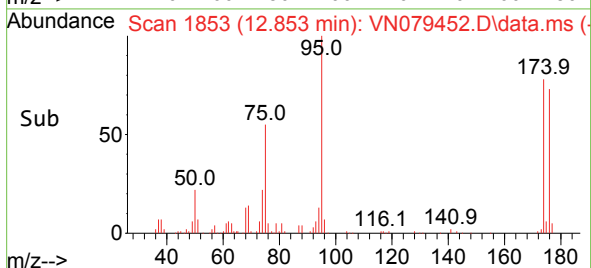
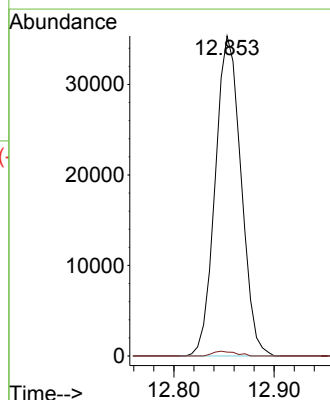
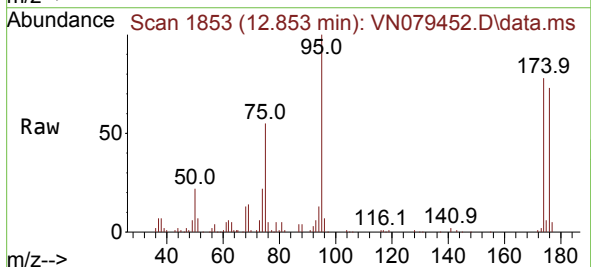
Acq: 06 Oct 2023 17:07

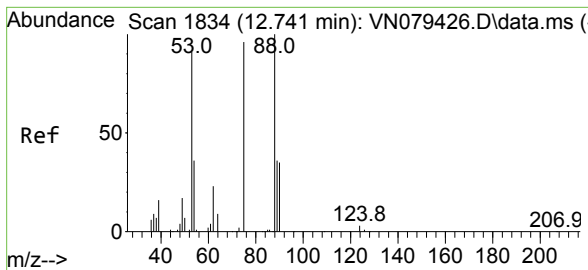
Tgt Ion: 75 Resp: 63178

Ion Ratio Lower Upper

75 100

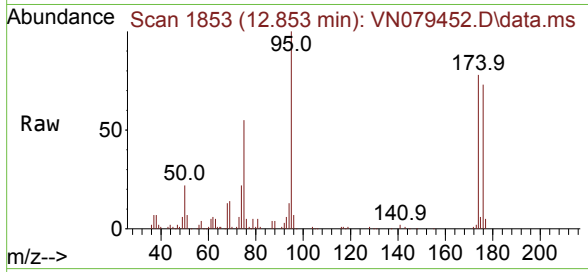
77 1.3 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 78.781 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN079452.D
 Acq: 06 Oct 2023 17:07

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 63178
 Ion Ratio Lower Upper
 75 100
 53 0.4 67.4 101.2#
 89 0.0 38.8 58.2#

