

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101223\
 Data File : VN079548.D
 Acq On : 12 Oct 2023 16:23
 Operator : JC\MD
 Sample : 04858-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 13 01:21:34 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	246946	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	515352	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	508131	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	157414	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	215630	53.853	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 107.700%	
35) Dibromofluoromethane	8.171	113	187148	50.533	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.060%	
50) Toluene-d8	10.571	98	624607	46.611	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 93.220%	
62) 4-Bromofluorobenzene	12.853	95	209684	48.759	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 97.520%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.965	94	553	0.201	ug/l #	59
11) Tert butyl alcohol	5.524	59	185	0.307	ug/l #	72
16) Acetone	4.430	43	41217	25.953	ug/l #	87
18) Methyl Acetate	5.042	43	5889	0.758	ug/l #	50
20) Methylene Chloride	5.289	84	16959	4.326	ug/l #	78
25) 2-Butanone	7.500	43	7373	3.128	ug/l #	87
31) Cyclohexane	8.236	56	6810	1.199	ug/l #	55
36) 1,1-Dichloropropene	8.224	75	21961	3.951	ug/l #	46
37) Ethyl Acetate	7.577	43	3290	0.595	ug/l #	75
38) Carbon Tetrachloride	8.230	117	26888	4.832	ug/l #	17
42) 1,2-Dichloroethane	8.694	62	1218	0.203	ug/l	85
43) Isopropyl Acetate	8.694	43	214592	22.146	ug/l #	70
45) 1,2-Dichloropropane	9.747	63	878	0.202	ug/l #	45
48) Methyl methacrylate	9.677	41	4465	1.075	ug/l #	27
49) 1,4-Dioxane	9.730	88	54	0.706	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	23359	4.270	ug/l #	80
54) cis-1,3-Dichloropropene	10.359	75	47537	7.437	ug/l #	74
56) Ethyl methacrylate	10.988	69	2460	0.459	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	4001	0.594	ug/l #	42
59) 2-Hexanone	11.171	43	190897	48.364	ug/l #	19
75) 1,1,2,2-Tetrachloroethane	12.859	83	146	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.853	75	118023	26.004	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	118023	75.451	ug/l #	15
90) Hexachloroethane	14.335	117	64	Below Cal	#	21

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

Instrument :

MSVOA_N

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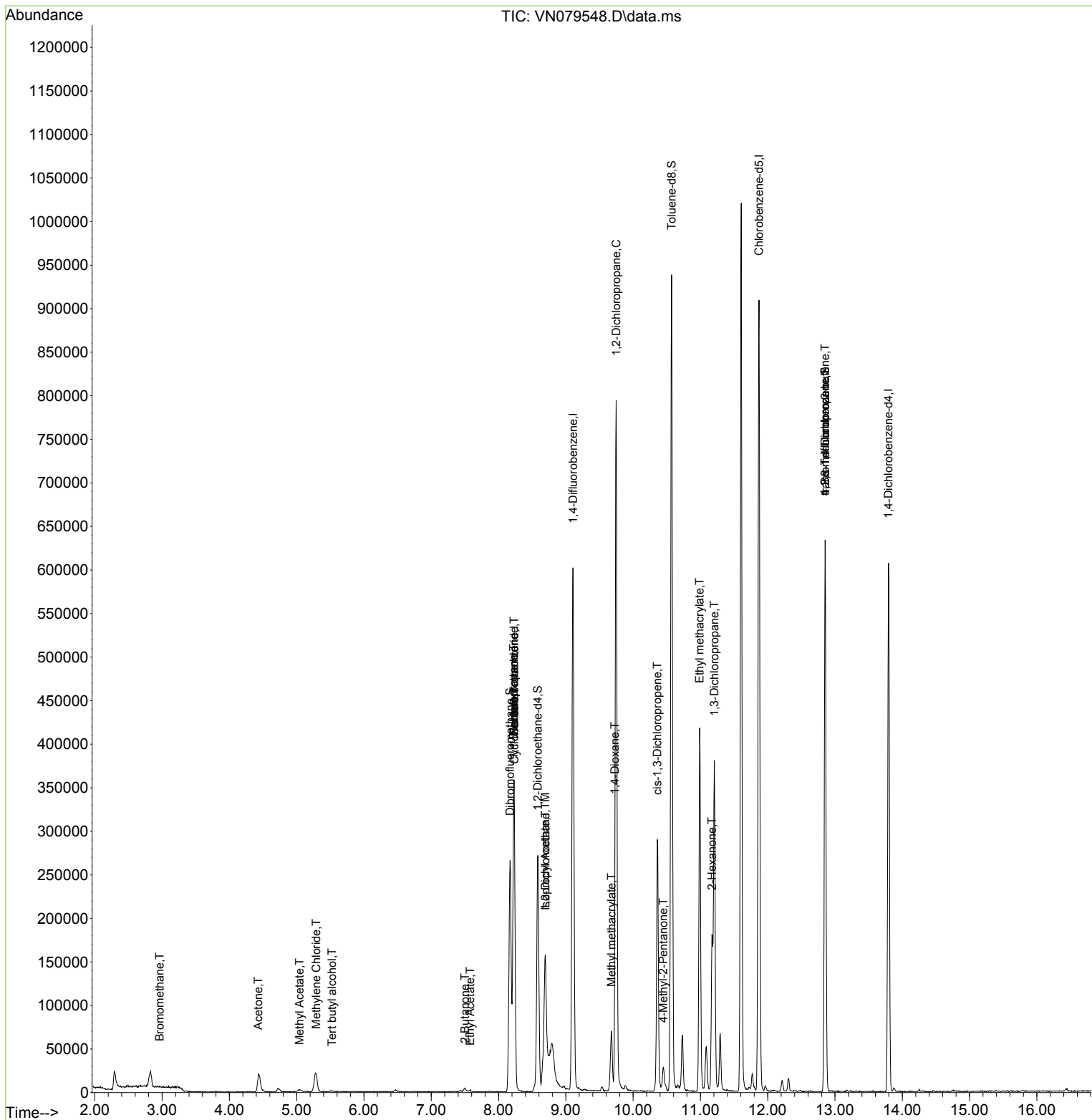
Quant Time: Oct 13 01:21:34 2023

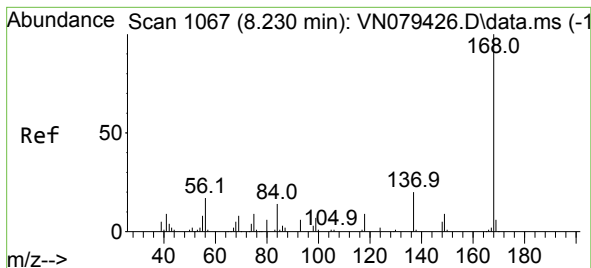
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Quant Title : SW846 8260

QLast Update : Fri Oct 06 03:34:49 2023

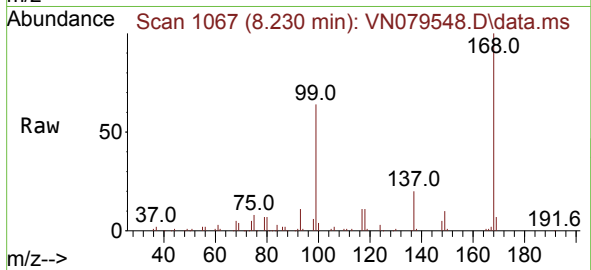
Response via : Initial Calibration



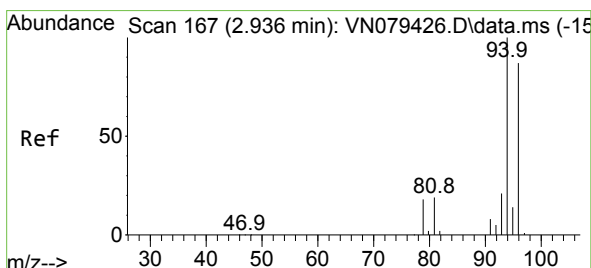
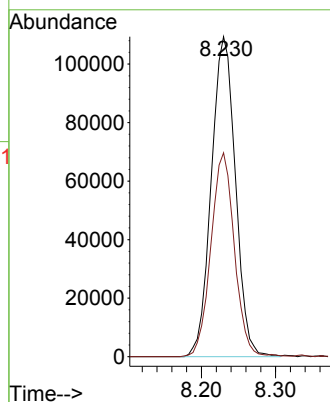
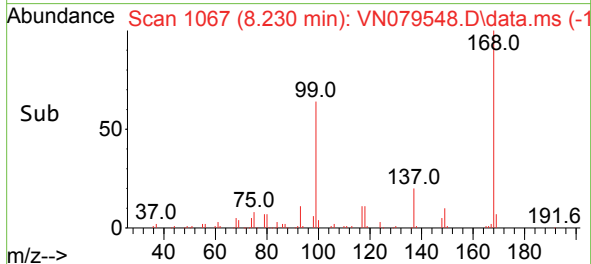


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

Instrument :
MSVOA_N
ClientSampleId :

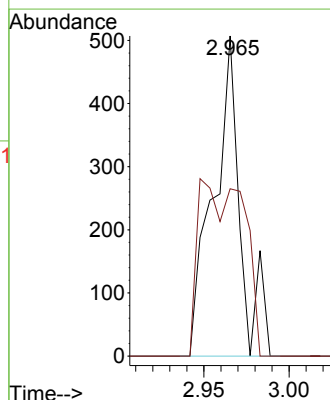
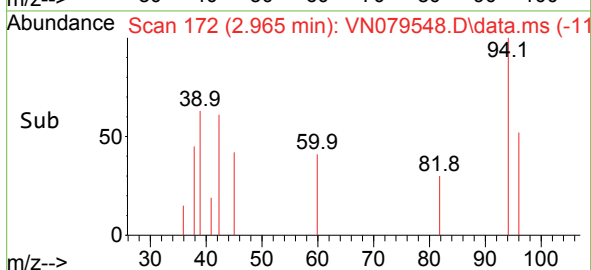
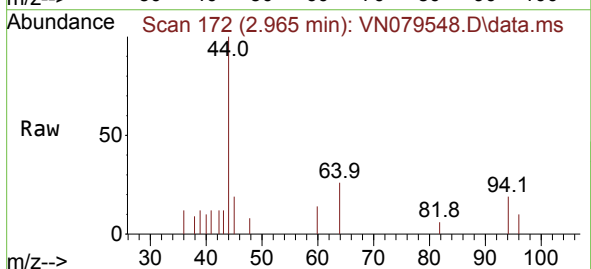


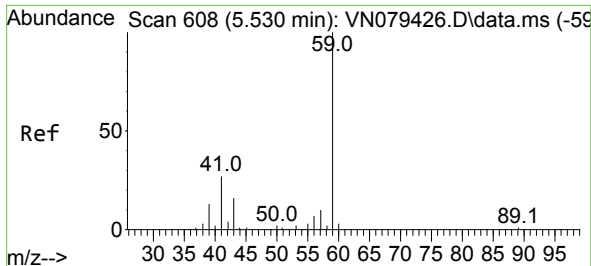
Tgt Ion:168 Resp: 246946
Ion Ratio Lower Upper
168 100
99 63.7 53.0 79.6



#5
Bromomethane
Concen: 0.201 ug/l
RT: 2.965 min Scan# 172
Delta R.T. 0.030 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

Tgt Ion: 94 Resp: 553
Ion Ratio Lower Upper
94 100
96 52.3 73.1 109.7#

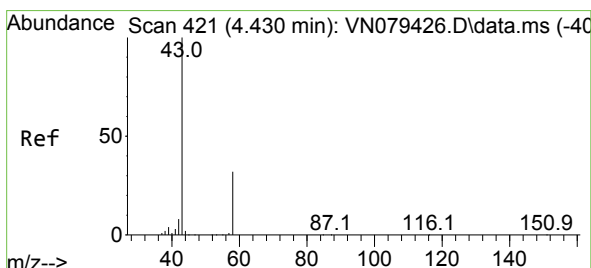
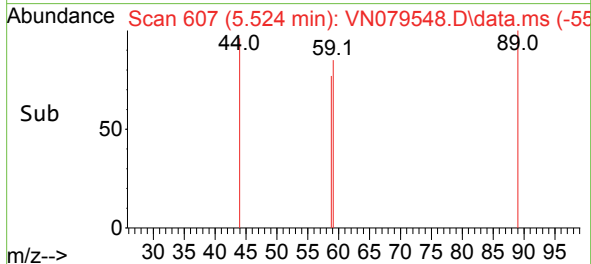
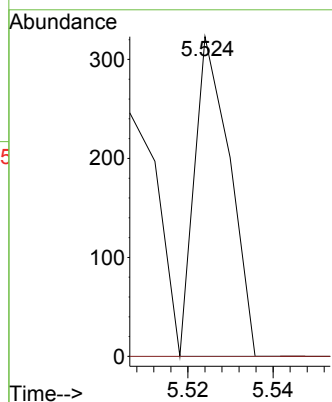
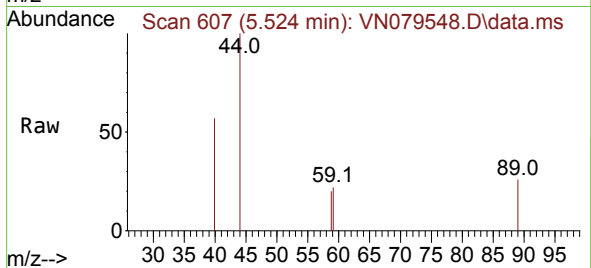




#11
Tert butyl alcohol
Concen: 0.307 ug/l
RT: 5.524 min Scan# 608
Delta R.T. -0.006 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

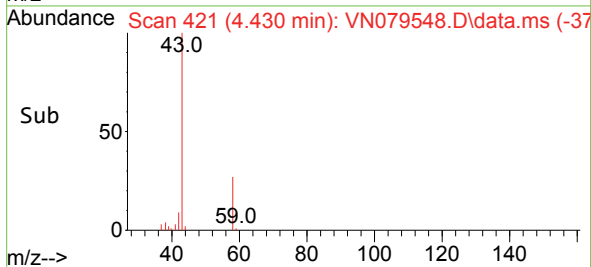
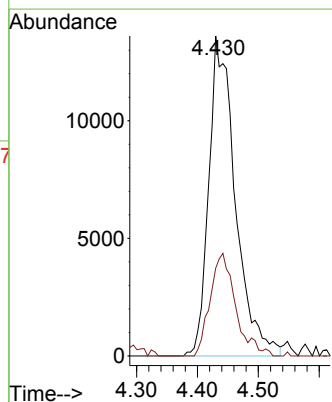
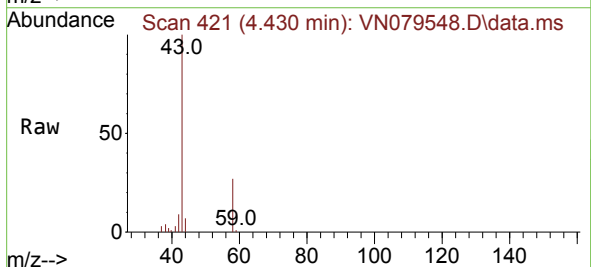
Instrument :
MSVOA_N
ClientSampleId :

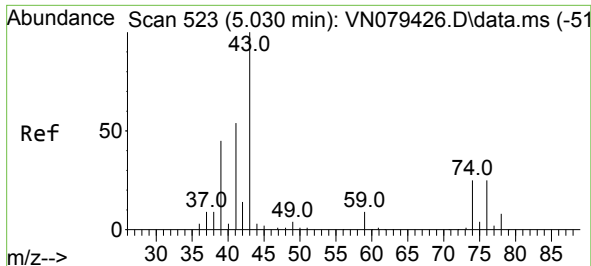
Tgt Ion: 59 Resp: 185
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 25.953 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

Tgt Ion: 43 Resp: 41217
Ion Ratio Lower Upper
43 100
58 27.4 28.0 42.0#

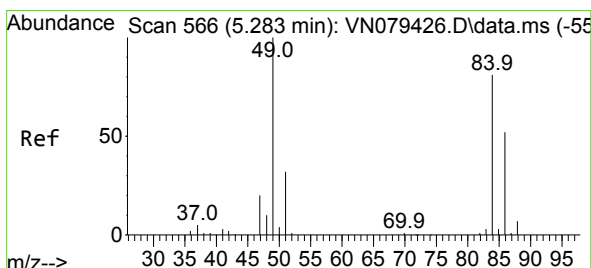
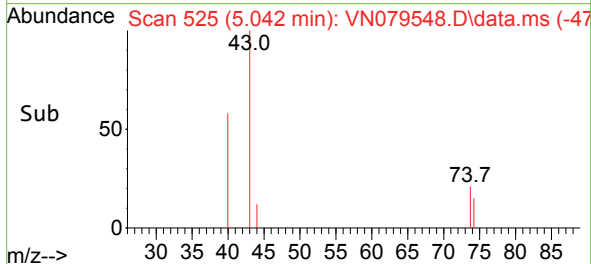
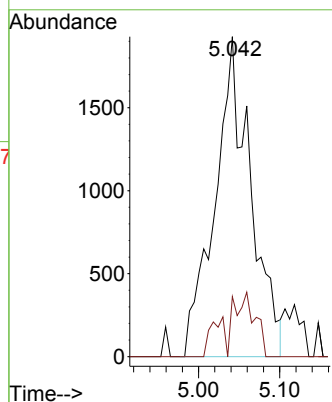
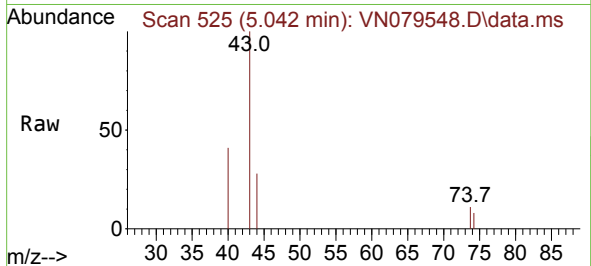




#18
Methyl Acetate
Concen: 0.758 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

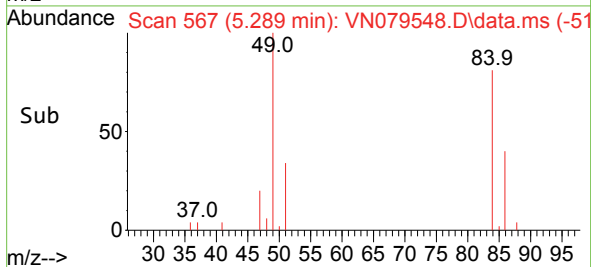
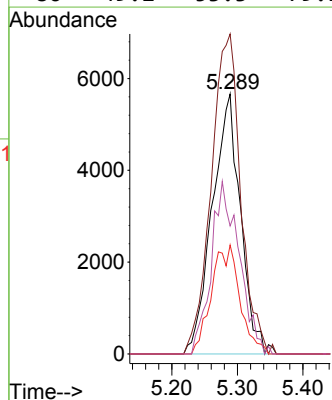
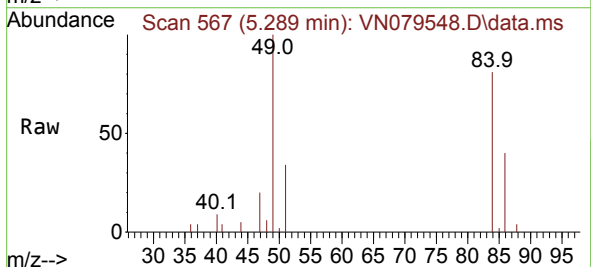
Instrument :
MSVOA_N
ClientSampleId :

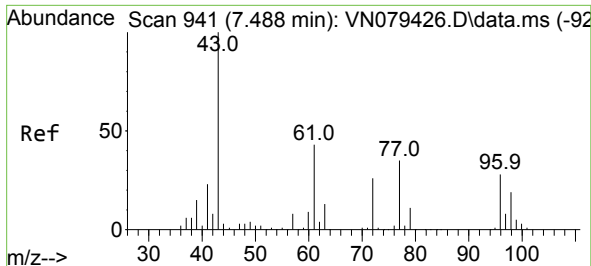
Tgt Ion: 43 Resp: 5889
Ion Ratio Lower Upper
43 100
74 4.7 26.2 39.4#



#20
Methylene Chloride
Concen: 4.326 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

Tgt Ion: 84 Resp: 16959
Ion Ratio Lower Upper
84 100
49 123.1 79.7 119.5#
51 41.9 25.2 37.8#
86 49.2 53.3 79.9#

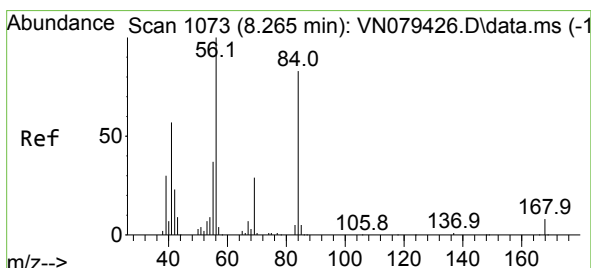
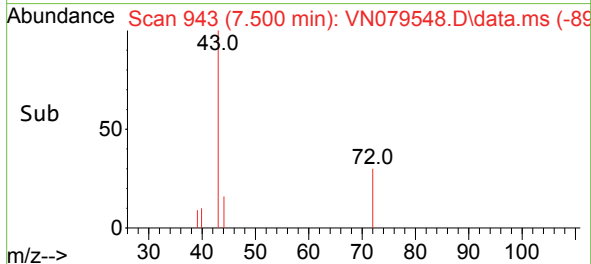
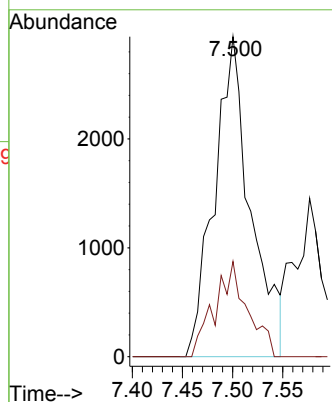
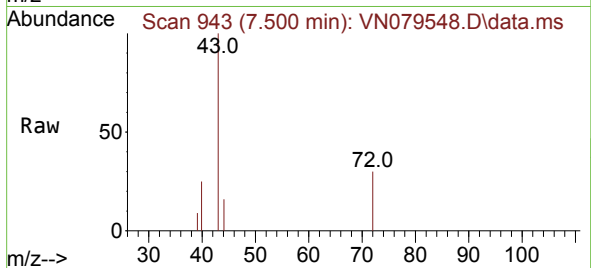




#25
2-Butanone
Concen: 3.128 ug/l
RT: 7.500 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

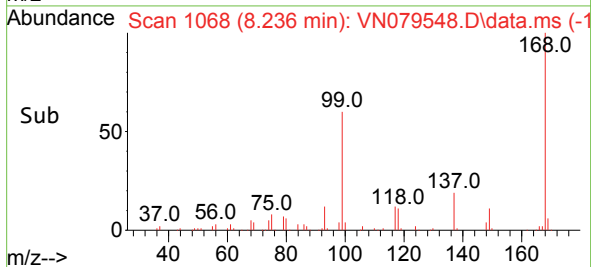
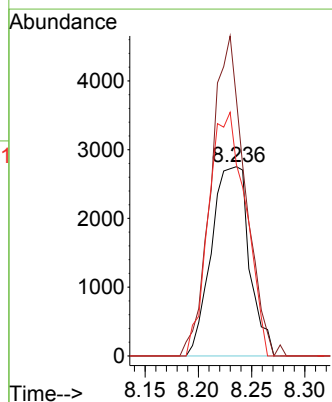
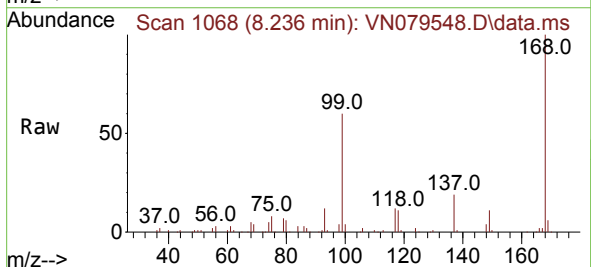
Instrument :
MSVOA_N
ClientSampleId :

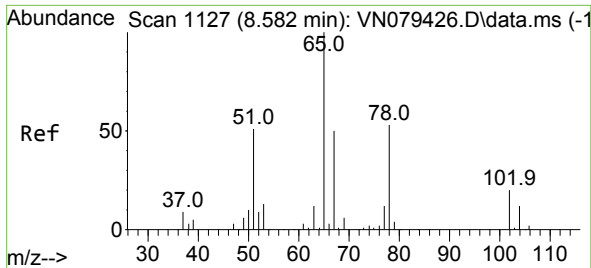
Tgt Ion: 43 Resp: 7373
Ion Ratio Lower Upper
43 100
72 29.7 30.2 45.2#



#31
Cyclohexane
Concen: 1.199 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

Tgt Ion: 56 Resp: 6810
Ion Ratio Lower Upper
56 100
69 135.9 26.8 40.2#
84 101.2 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 53.853 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079548.D

Acq: 12 Oct 2023 16:23

Instrument :

MSVOA_N

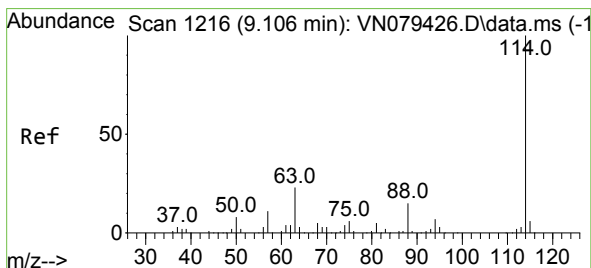
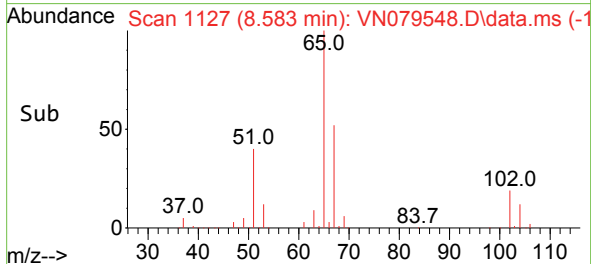
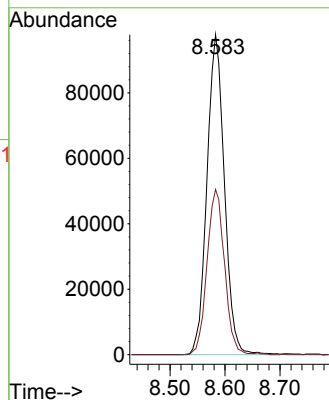
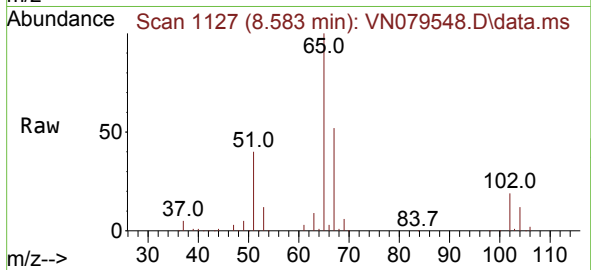
ClientSampleId :

Tgt Ion: 65 Resp: 215630

Ion Ratio Lower Upper

65 100

67 51.7 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: VN079548.D

Acq: 12 Oct 2023 16:23

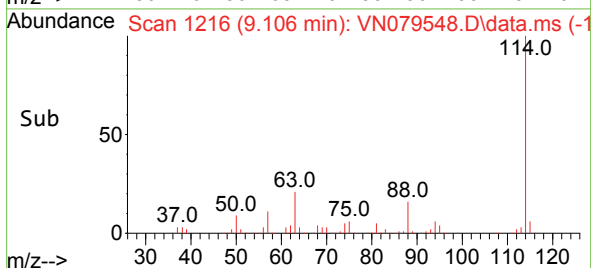
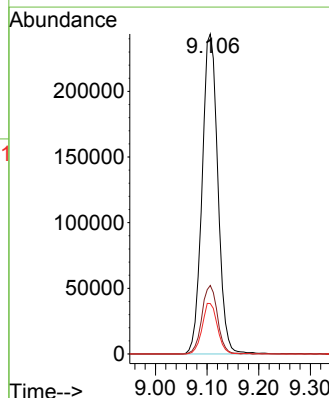
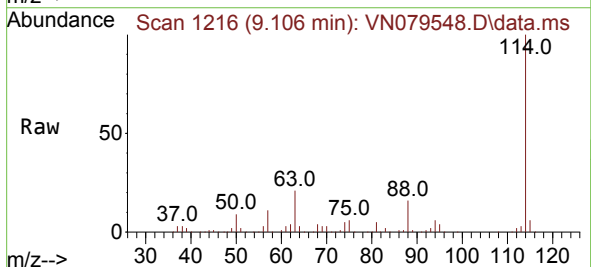
Tgt Ion: 114 Resp: 515352

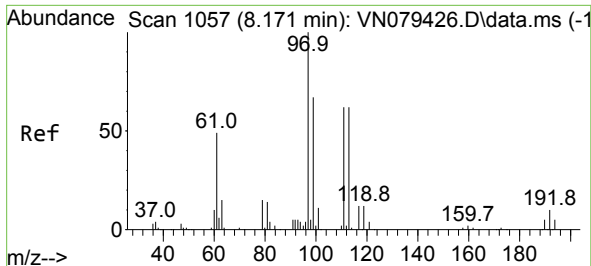
Ion Ratio Lower Upper

114 100

63 21.4 0.0 36.4

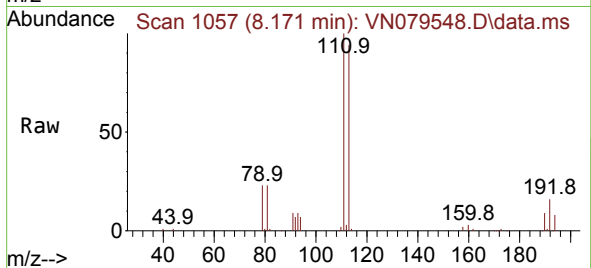
88 15.7 0.0 30.6



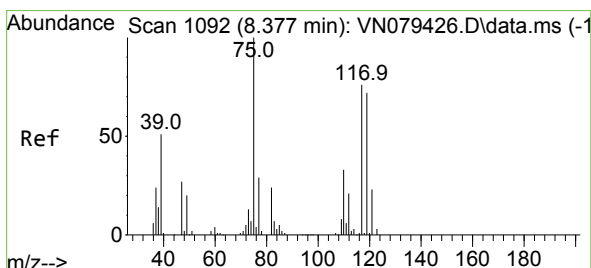
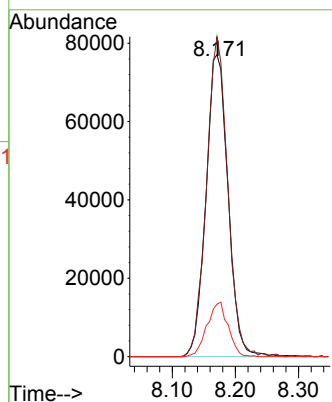
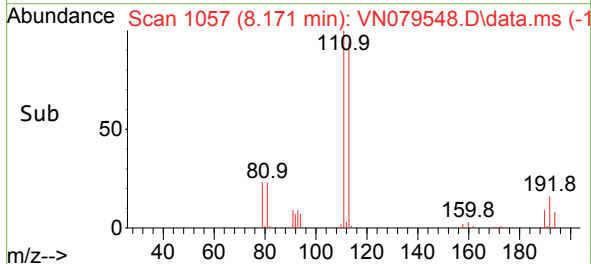


#35
Dibromofluoromethane
Concen: 50.533 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

Instrument :
MSVOA_N
ClientSampleId :

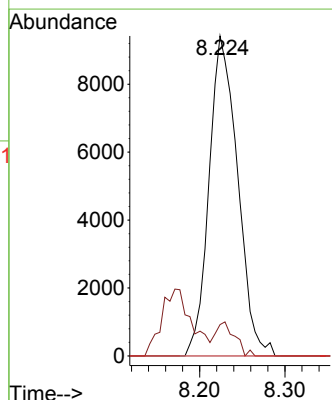
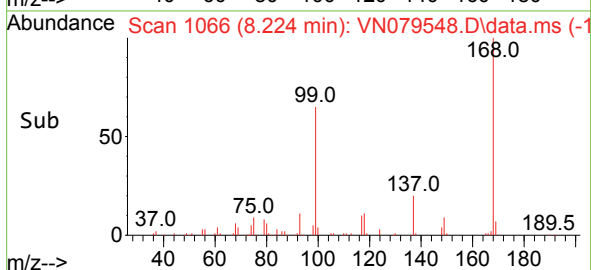
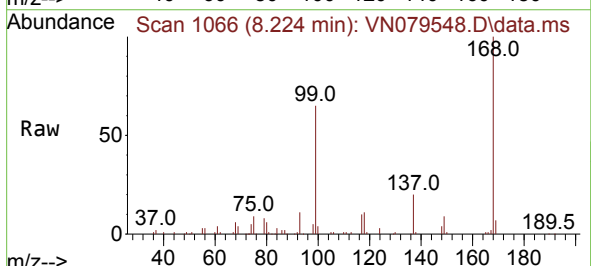


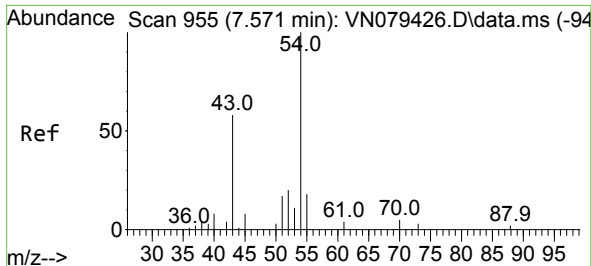
Tgt Ion:113 Resp: 187148
Ion Ratio Lower Upper
113 100
111 101.8 82.6 123.8
192 17.3 12.7 19.1



#36
1,1-Dichloropropene
Concen: 3.951 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.153 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

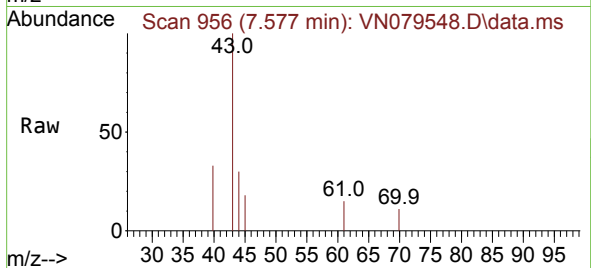
Tgt Ion: 75 Resp: 21961
Ion Ratio Lower Upper
75 100
110 7.1 19.1 57.3#
77 0.0 25.0 37.4#



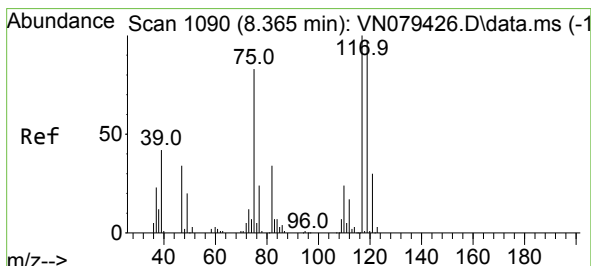
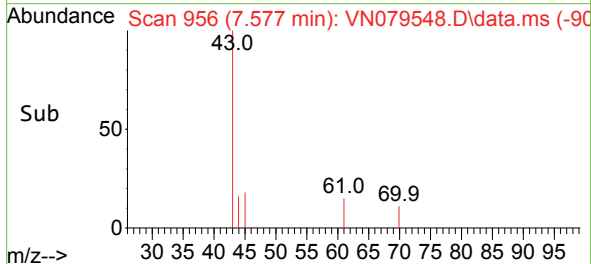
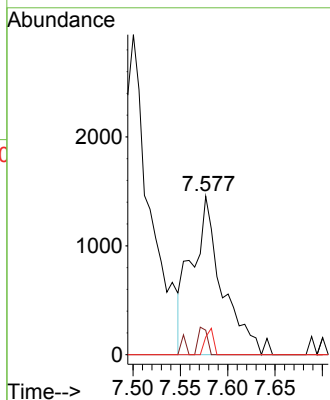


#37
Ethyl Acetate
Concen: 0.595 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

Instrument :
MSVOA_N
ClientSampleId :

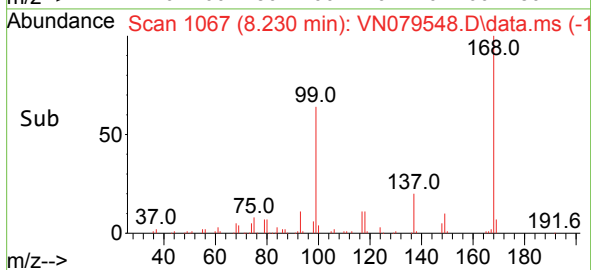
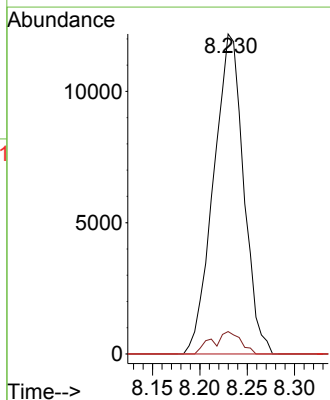
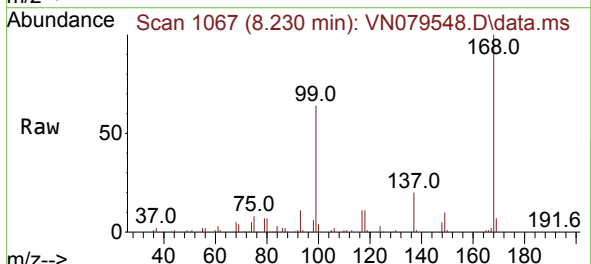


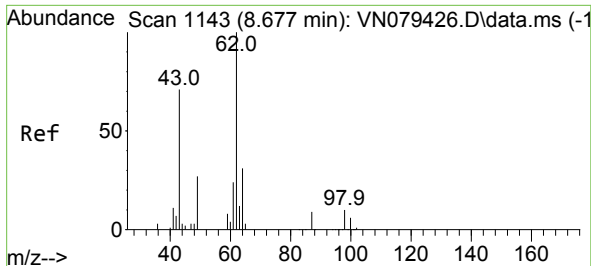
Tgt Ion: 43 Resp: 3290
Ion Ratio Lower Upper
43 100
61 5.1 13.2 19.8#
70 4.3 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 4.832 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.135 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

Tgt Ion: 117 Resp: 26888
Ion Ratio Lower Upper
117 100
119 7.0 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.203 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.018 min

Lab File: VN079548.D

Acq: 12 Oct 2023 16:23

Instrument :

MSVOA_N

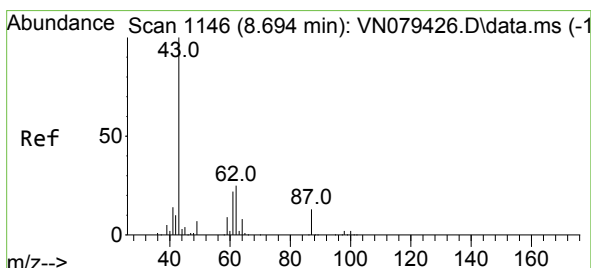
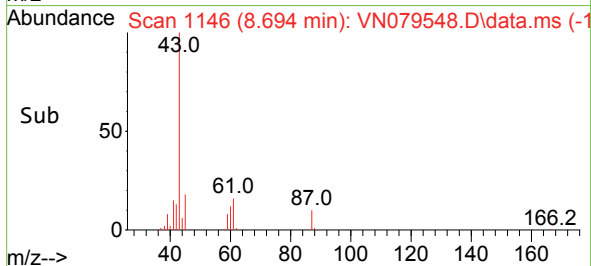
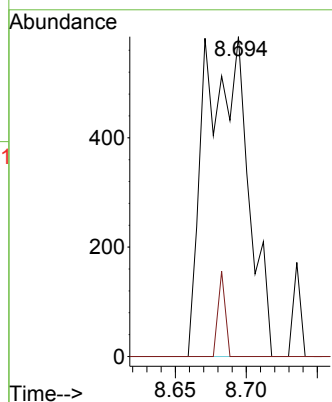
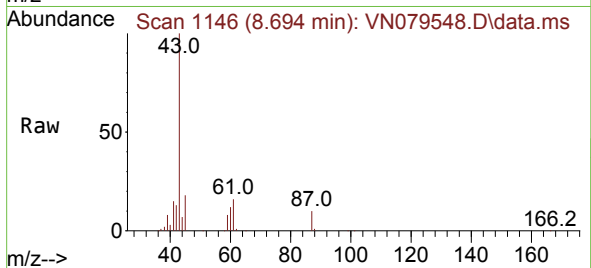
ClientSampleId :

Tgt Ion: 62 Resp: 1218

Ion Ratio Lower Upper

62 100

98 4.5 0.0 19.8



#43

Isopropyl Acetate

Concen: 22.146 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN079548.D

Acq: 12 Oct 2023 16:23

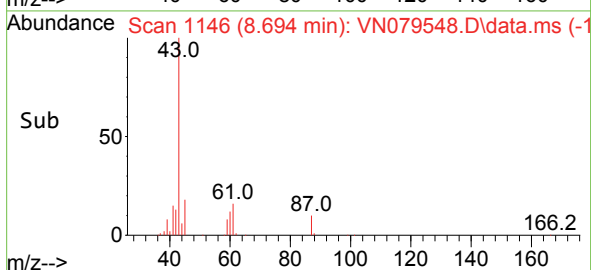
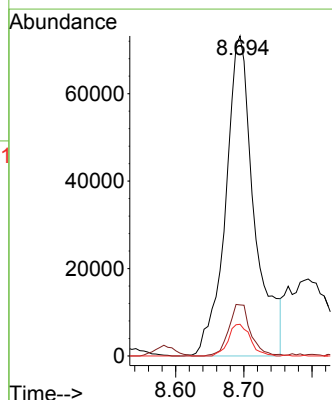
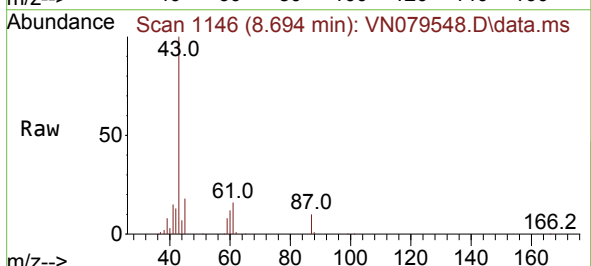
Tgt Ion: 43 Resp: 214592

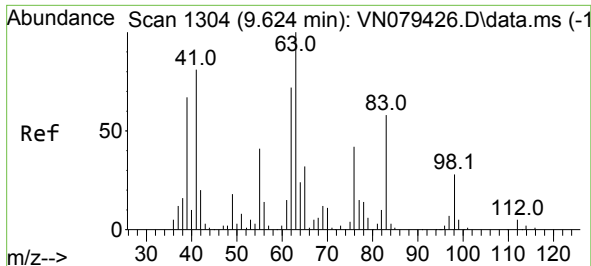
Ion Ratio Lower Upper

43 100

61 12.2 24.7 37.1#

87 7.5 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.202 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.124 min

Lab File: VN079548.D

Acq: 12 Oct 2023 16:23

Instrument :

MSVOA_N

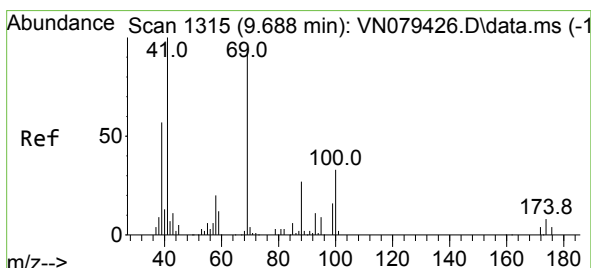
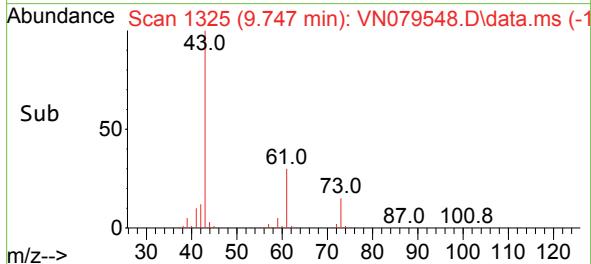
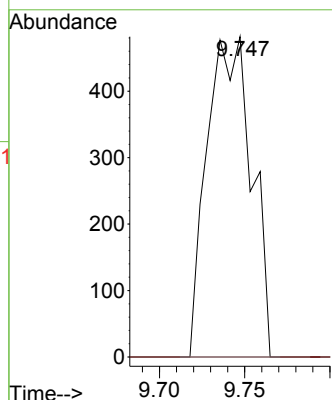
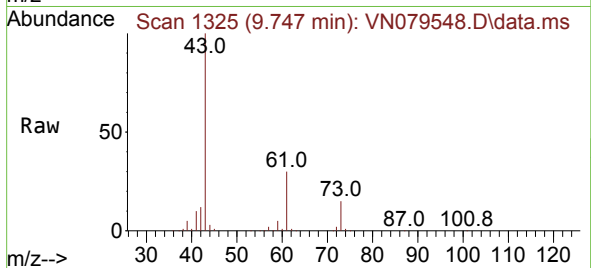
ClientSampleId :

Tgt Ion: 63 Resp: 878

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 1.075 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.012 min

Lab File: VN079548.D

Acq: 12 Oct 2023 16:23

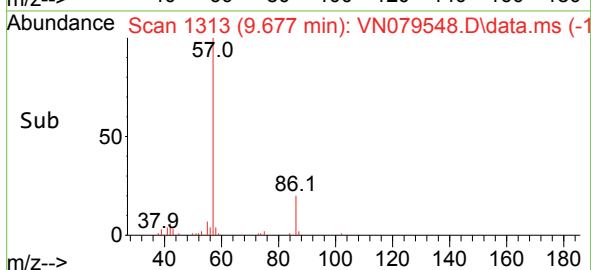
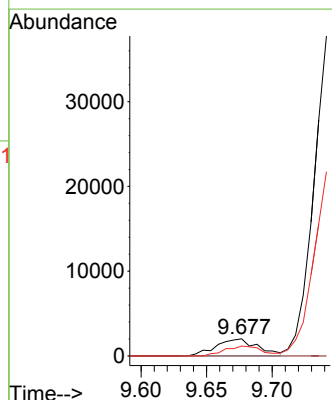
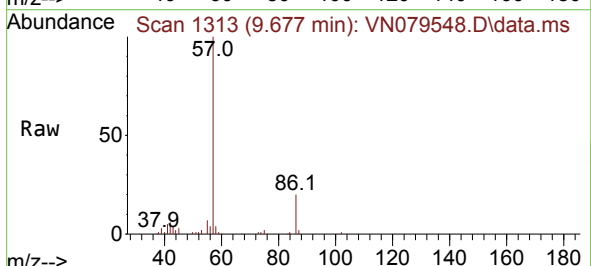
Tgt Ion: 41 Resp: 4465

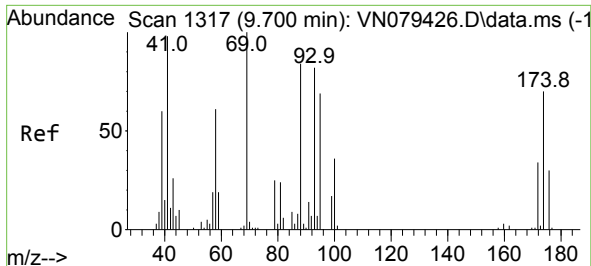
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 52.4 54.6 81.8#





#49

1,4-Dioxane

Concen: 0.706 ug/l

RT: 9.730 min Scan# 11

Delta R.T. 0.030 min

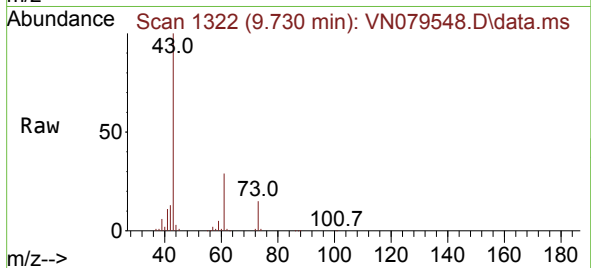
Lab File: VN079548.D

Acq: 12 Oct 2023 16:23

Instrument :

MSVOA_N

ClientSampleId :



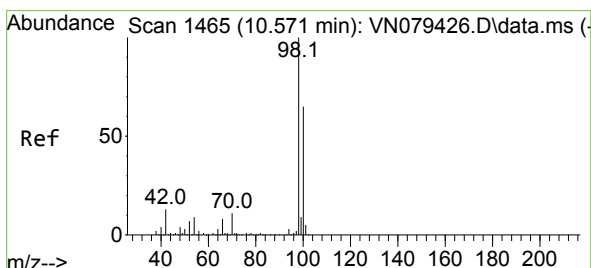
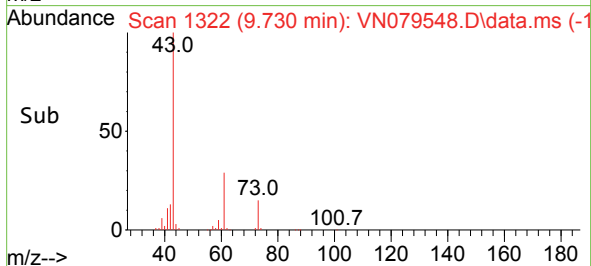
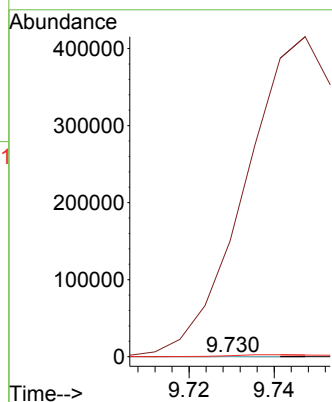
Tgt Ion: 88 Resp: 54

Ion Ratio Lower Upper

88 100

43 1401640.7 17.0 25.6#

58 8535.2 47.0 70.4#



#50

Toluene-d8

Concen: 46.611 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN079548.D

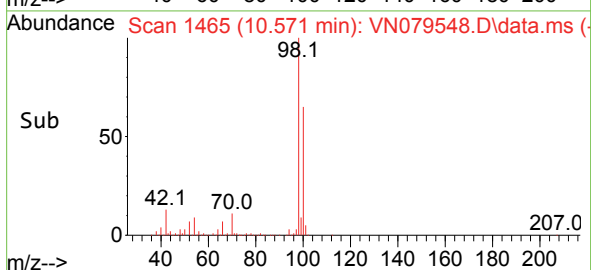
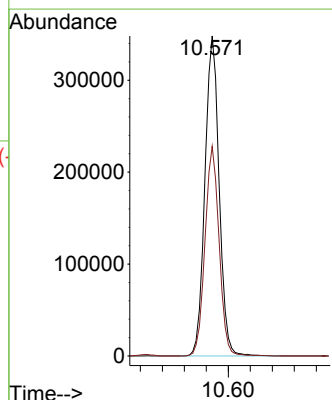
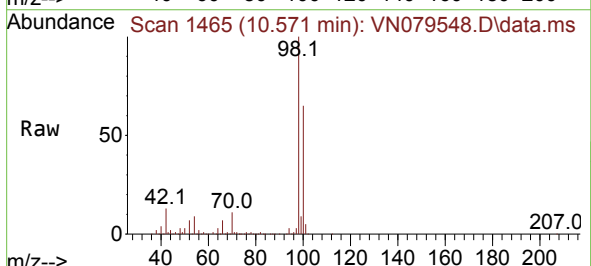
Acq: 12 Oct 2023 16:23

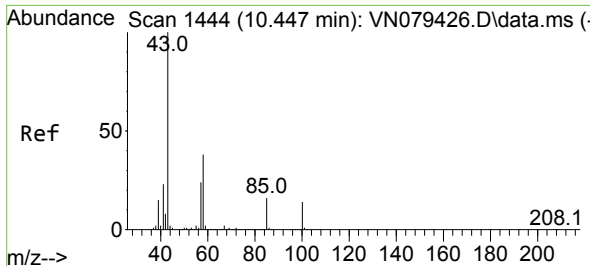
Tgt Ion: 98 Resp: 624607

Ion Ratio Lower Upper

98 100

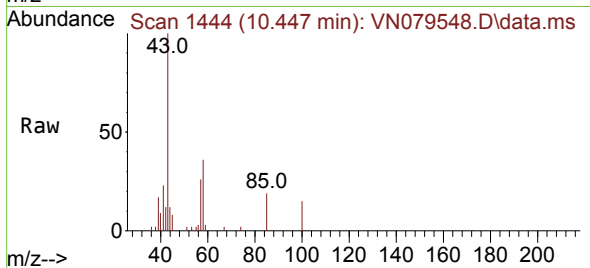
100 65.1 52.0 78.0



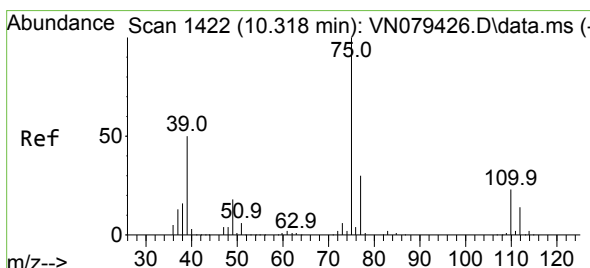
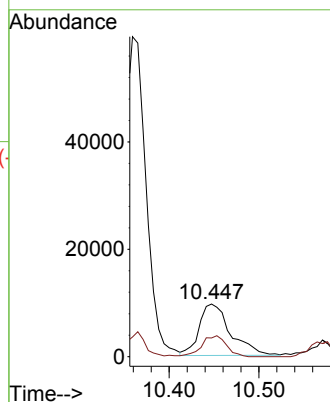
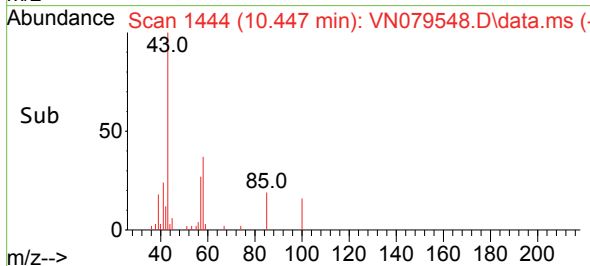


#51
4-Methyl-2-Pentanone
Concen: 4.270 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

Instrument :
MSVOA_N
ClientSampleId :

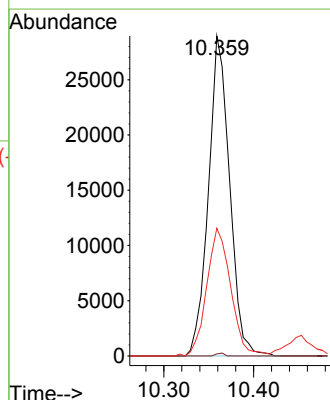
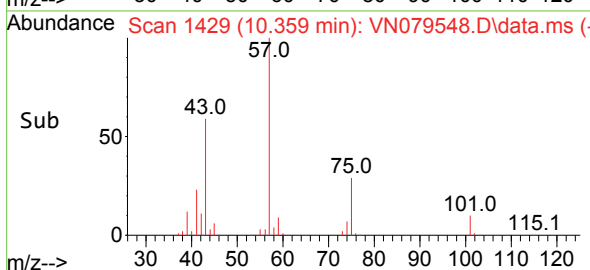
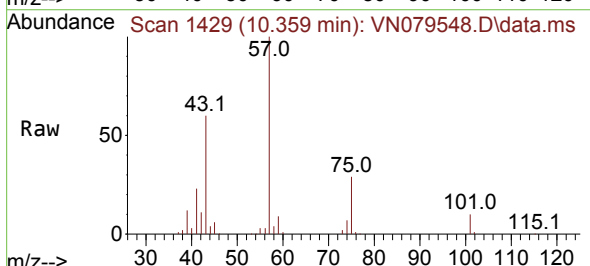


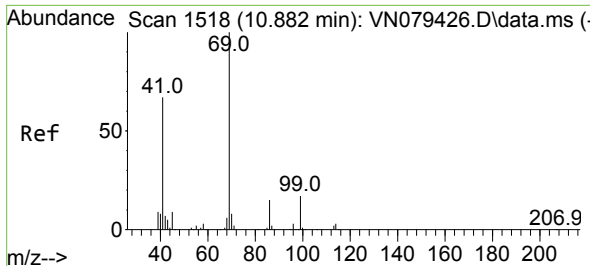
Tgt Ion: 43 Resp: 23359
Ion Ratio Lower Upper
43 100
58 32.2 36.6 54.8#



#54
cis-1,3-Dichloropropene
Concen: 7.437 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.041 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

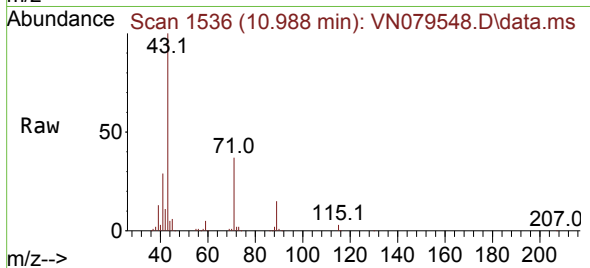
Tgt Ion: 75 Resp: 47537
Ion Ratio Lower Upper
75 100
77 0.6 26.1 39.1#
39 39.3 31.6 47.4



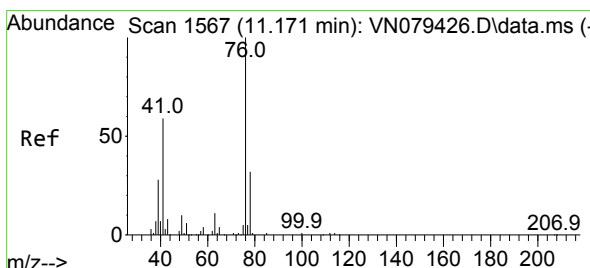
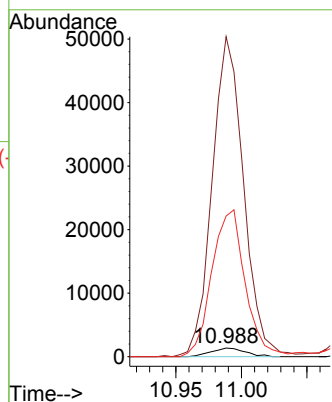
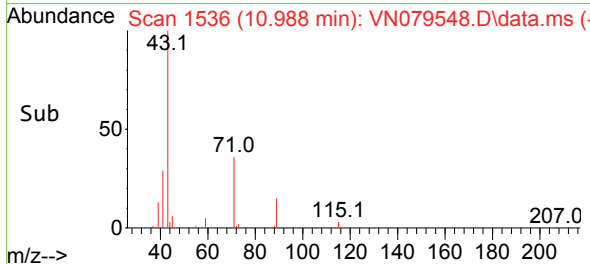


#56
Ethyl methacrylate
Concen: 0.459 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.106 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

Instrument :
MSVOA_N
ClientSampleId :

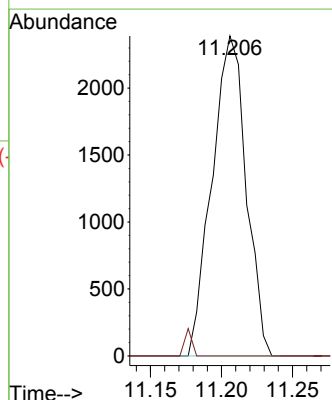
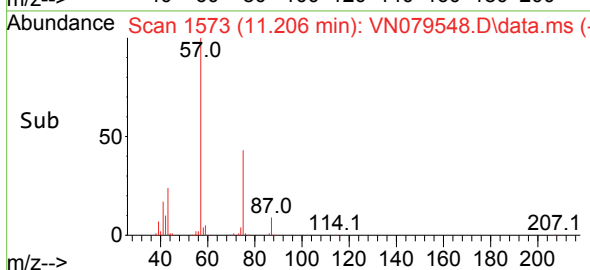
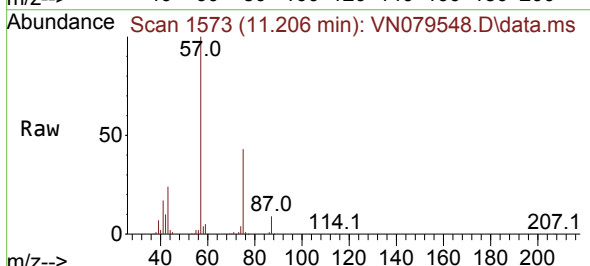


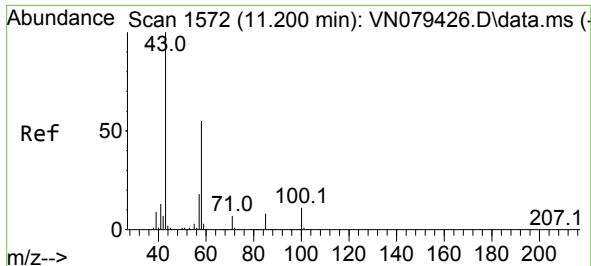
Tgt Ion: 69 Resp: 2460
Ion Ratio Lower Upper
69 100
41 3421.9 39.6 59.4#
39 1658.7 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 0.594 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

Tgt Ion: 76 Resp: 4001
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

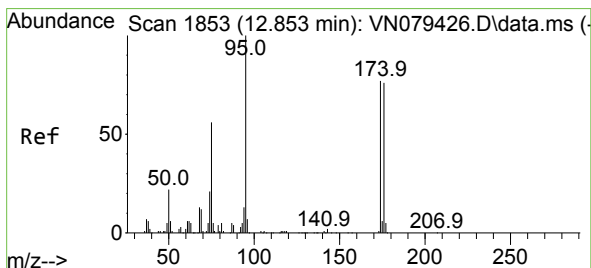
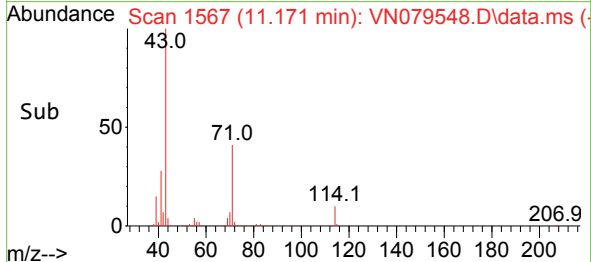
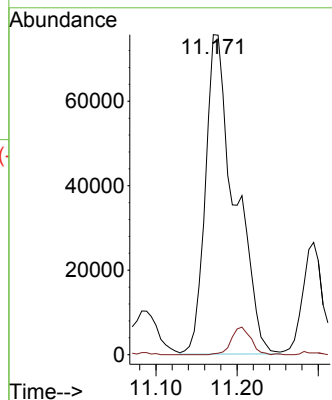
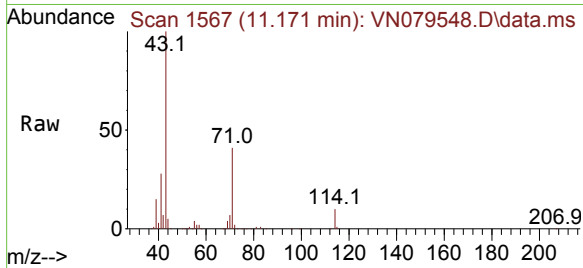




#59
2-Hexanone
Concen: 48.364 ug/l
RT: 11.171 min Scan# 11567
Delta R.T. -0.029 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

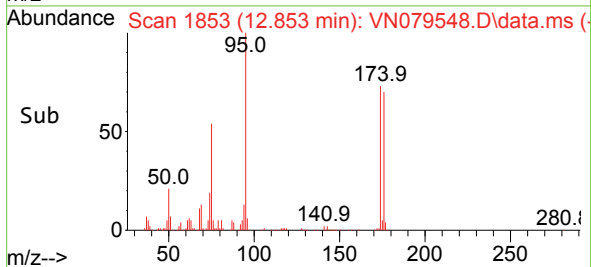
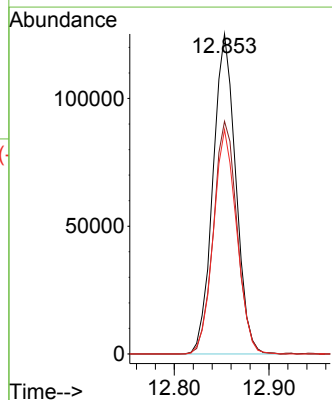
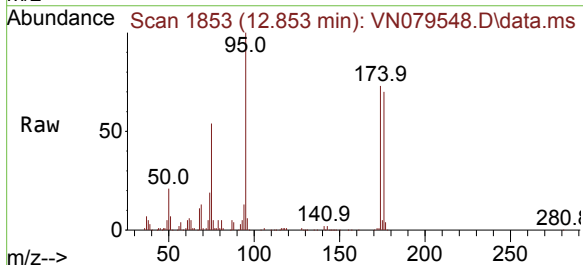
Instrument :
MSVOA_N
ClientSampleId :

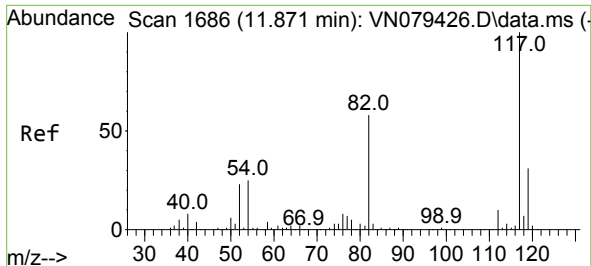
Tgt Ion: 43 Resp: 190897
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 48.759 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

Tgt Ion: 95 Resp: 209684
Ion Ratio Lower Upper
95 100
174 75.3 0.0 143.8
176 71.7 0.0 135.8

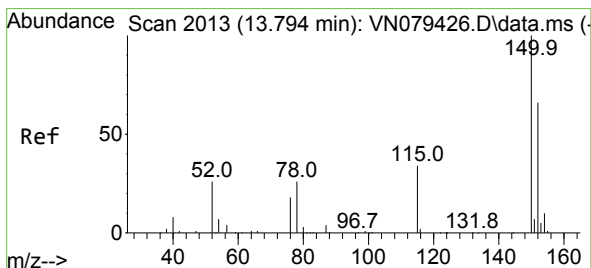
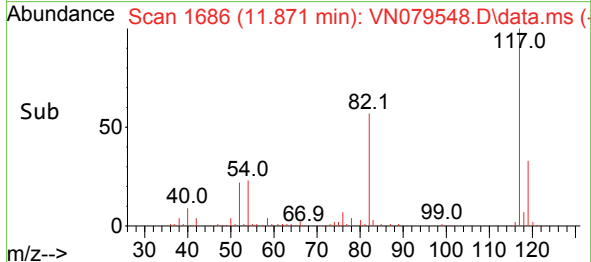
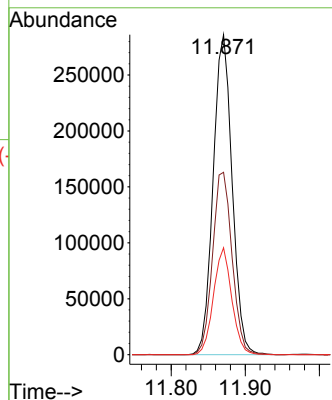
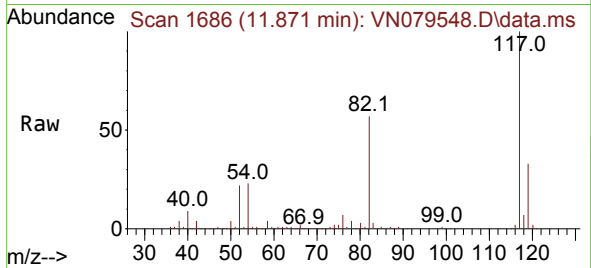




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

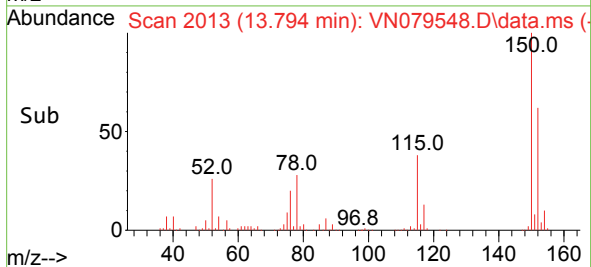
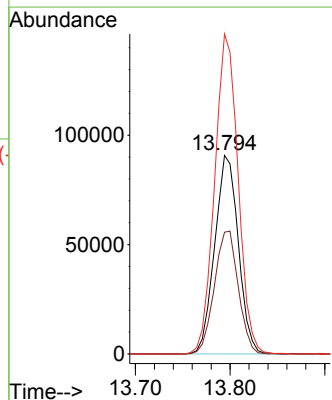
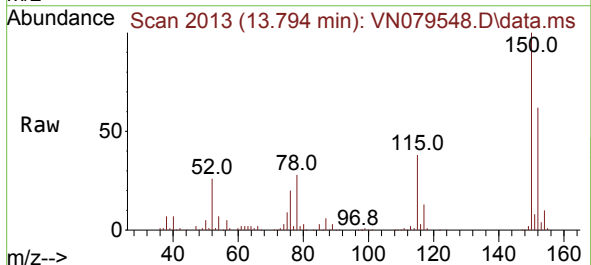
Instrument :
MSVOA_N
ClientSampleId :

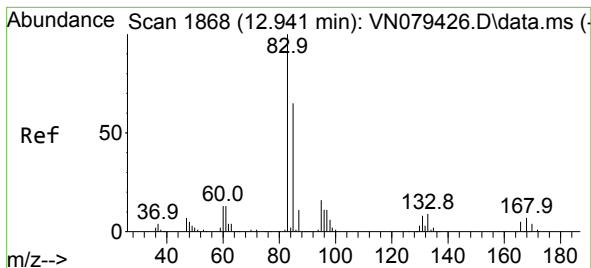
Tgt Ion:117 Resp: 508131
Ion Ratio Lower Upper
117 100
82 57.0 44.0 66.0
119 33.4 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

Tgt Ion:152 Resp: 157414
Ion Ratio Lower Upper
152 100
115 62.8 32.3 96.8
150 159.9 0.0 355.8





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.859 min Scan# 1854

Delta R.T. -0.082 min

Lab File: VN079548.D

Acq: 12 Oct 2023 16:23

Instrument :

MSVOA_N

ClientSampleId :

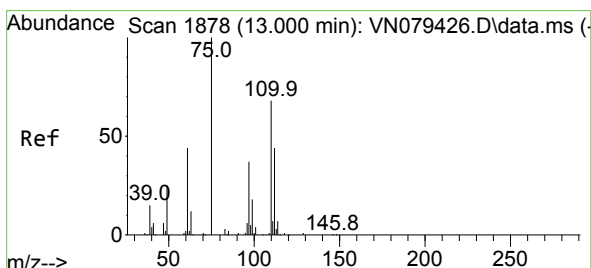
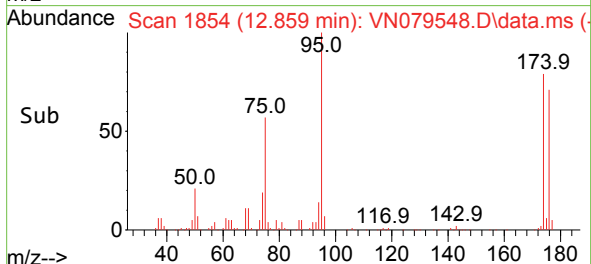
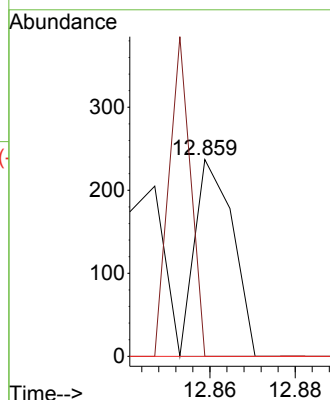
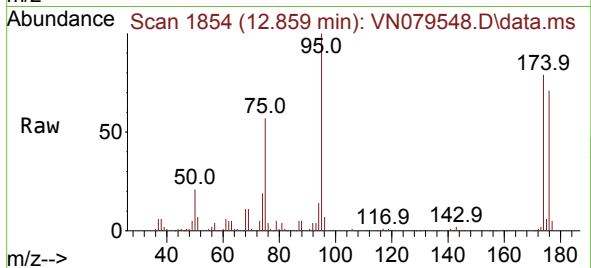
Tgt Ion: 83 Resp: 146

Ion Ratio Lower Upper

83 100

131 93.2 5.0 15.0#

85 0.0 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 26.004 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079548.D

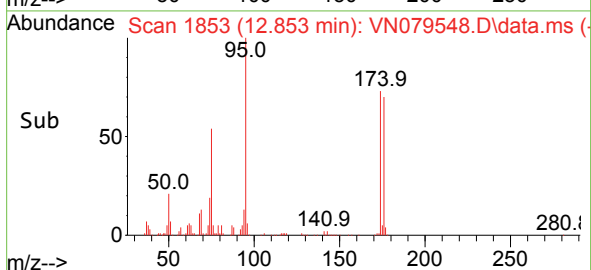
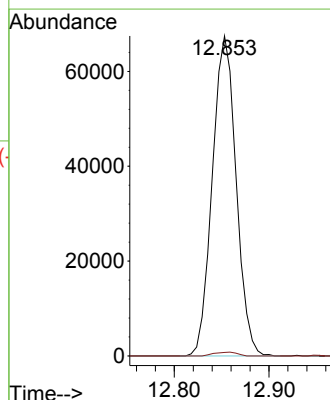
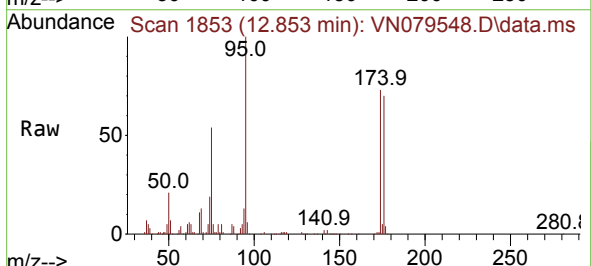
Acq: 12 Oct 2023 16:23

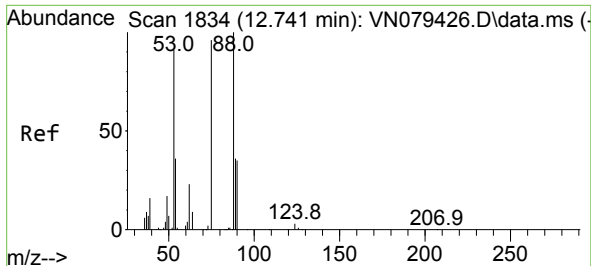
Tgt Ion: 75 Resp: 118023

Ion Ratio Lower Upper

75 100

77 1.2 84.5 253.5#

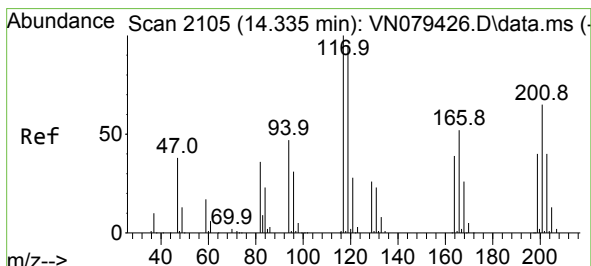
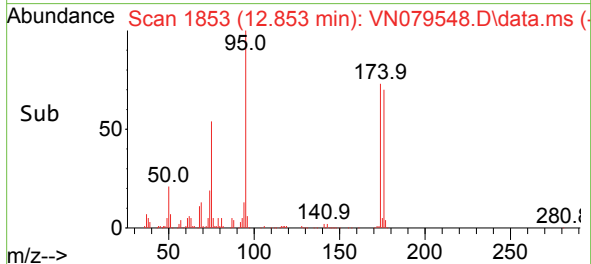
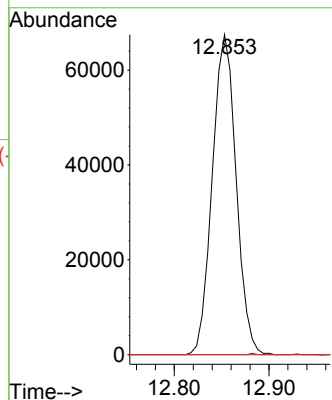
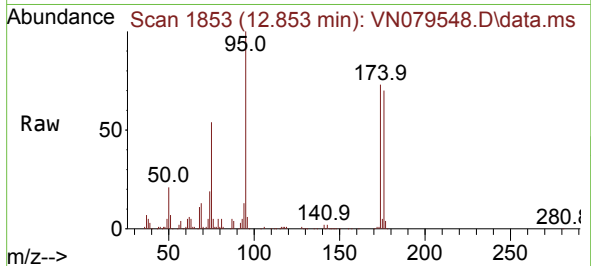




#81
trans-1,4-Dichloro-2-butene
Concen: 75.451 ug/l
RT: 12.853 min Scan# 118023
Delta R.T. 0.112 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 118023
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#90
Hexachloroethane
Concen: Below Cal
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN079548.D
Acq: 12 Oct 2023 16:23

Tgt Ion:117 Resp: 64
Ion Ratio Lower Upper
117 100
201 0.0 29.3 88.0#

