

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100623\
 Data File : VN079455.D
 Acq On : 06 Oct 2023 18:20
 Operator : JC\MD
 Sample : 04731-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 06 23:07:19 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

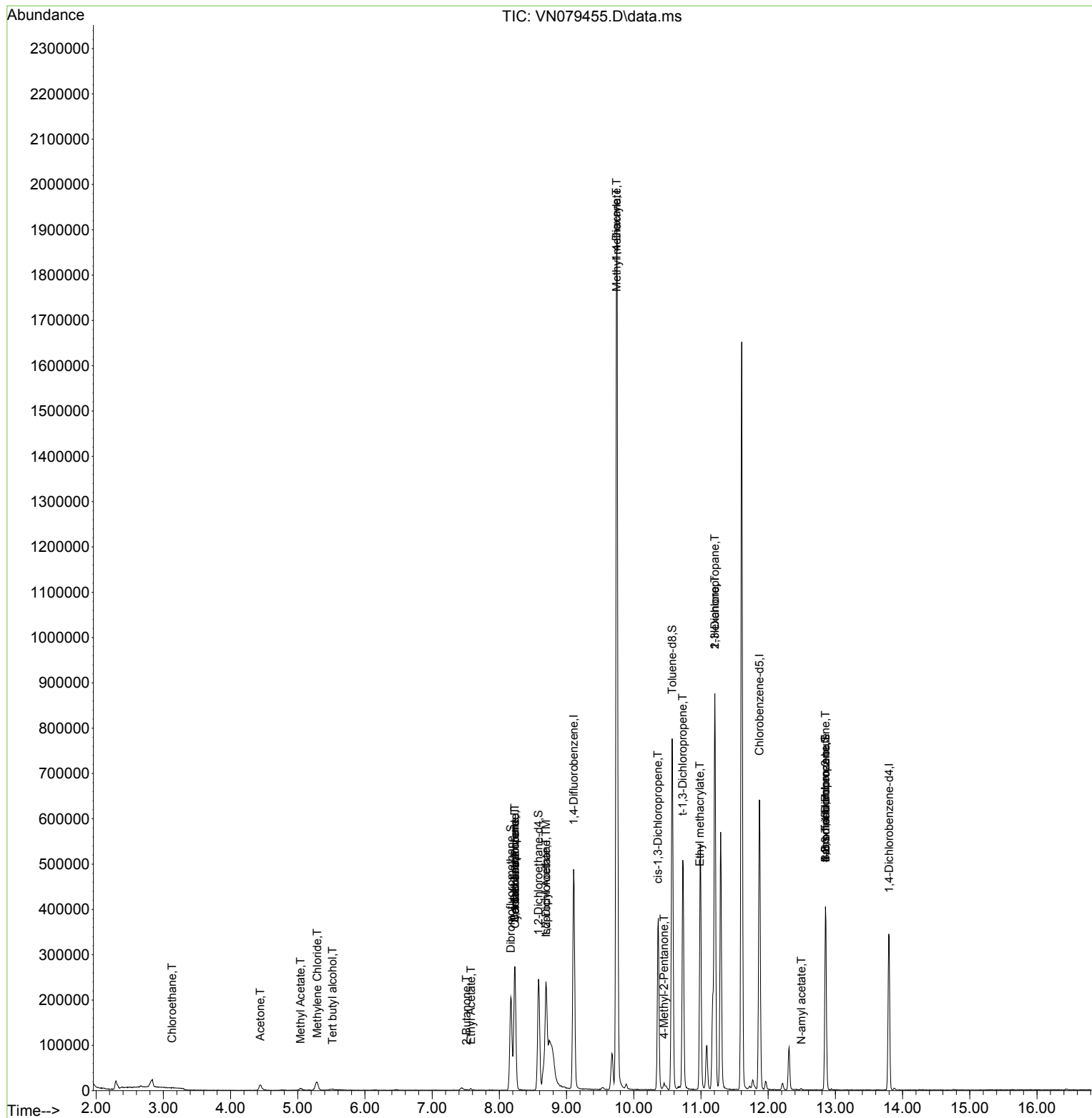
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	186275	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	396958	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	354573	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	88257	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	196450	65.043	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 130.080%#	
35) Dibromofluoromethane	8.171	113	144573	50.680	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.360%	
50) Toluene-d8	10.570	98	518235	50.208	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 100.420%	
62) 4-Bromofluorobenzene	12.853	95	127197	38.399	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 76.800%#	
Target Compounds						Qvalue
6) Chloroethane	3.130	64	544	0.208	ug/l #	43
11) Tert butyl alcohol	5.518	59	818	1.799	ug/l #	72
16) Acetone	4.441	43	23980	20.017	ug/l #	87
18) Methyl Acetate	5.041	43	7038	1.200	ug/l #	70
20) Methylene Chloride	5.288	84	13381	4.554	ug/l	91
25) 2-Butanone	7.512	43	2529	1.422	ug/l #	68
31) Cyclohexane	8.235	56	5247	1.225	ug/l #	2
36) 1,1-Dichloropropene	8.229	75	17856	4.171	ug/l #	47
37) Ethyl Acetate	7.577	43	5715	1.341	ug/l #	79
38) Carbon Tetrachloride	8.229	117	20590	4.804	ug/l #	16
42) 1,2-Dichloroethane	8.694	62	1677	0.363	ug/l #	73
43) Isopropyl Acetate	8.694	43	312630	41.887	ug/l #	70
48) Methyl methacrylate	9.747	41	182730	57.133	ug/l #	29
49) 1,4-Dioxane	9.741	88	293	4.974	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	7265	1.724	ug/l	99
53) t-1,3-Dichloropropene	10.729	75	1291	0.287	ug/l #	81
54) cis-1,3-Dichloropropene	10.359	75	63568	12.910	ug/l #	71
56) Ethyl methacrylate	10.982	69	3459	0.838	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	8187	1.578	ug/l #	42
59) 2-Hexanone	11.206	43	108820	35.792	ug/l #	48
71) Bromoform	12.853	173	1180	0.558	ug/l #	1
74) N-amyl acetate	12.494	43	1121	0.333	ug/l #	39
75) 1,1,2,2-Tetrachloroethane	12.847	83	58	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.853	75	72951	28.668	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	72951	83.181	ug/l #	15

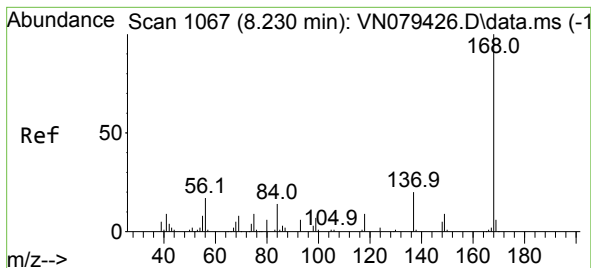
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 06 03:34:49 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.229 min Scan# 1

Delta R.T. -0.001 min

Lab File: VN079455.D

Acq: 06 Oct 2023 18:20

Instrument :

MSVOA_N

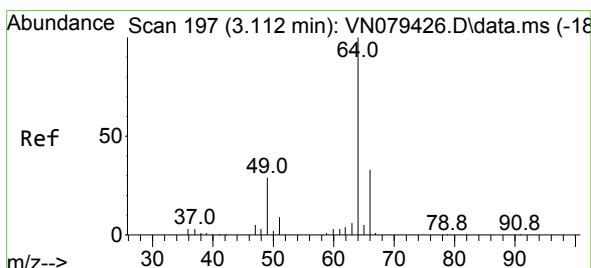
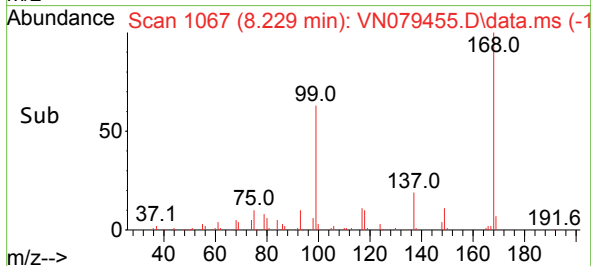
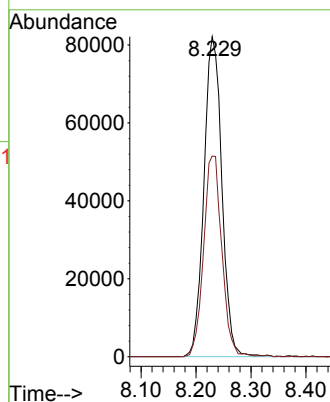
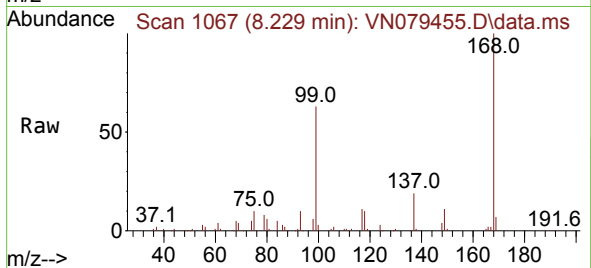
ClientSampleId :

Tgt Ion:168 Resp: 186275

Ion Ratio Lower Upper

168 100

99 62.7 53.0 79.6



#6

Chloroethane

Concen: 0.208 ug/l

RT: 3.130 min Scan# 200

Delta R.T. 0.018 min

Lab File: VN079455.D

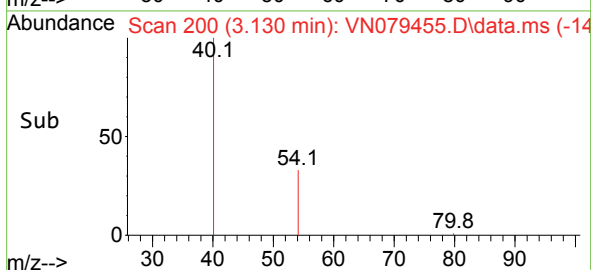
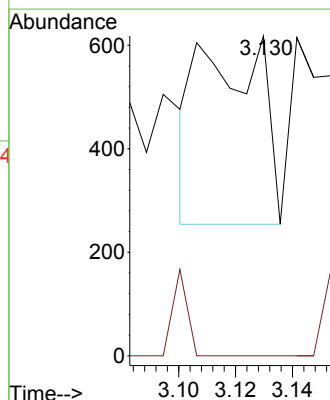
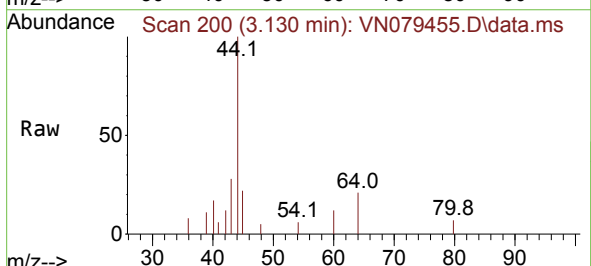
Acq: 06 Oct 2023 18:20

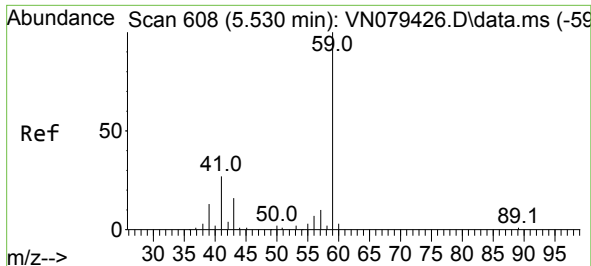
Tgt Ion: 64 Resp: 544

Ion Ratio Lower Upper

64 100

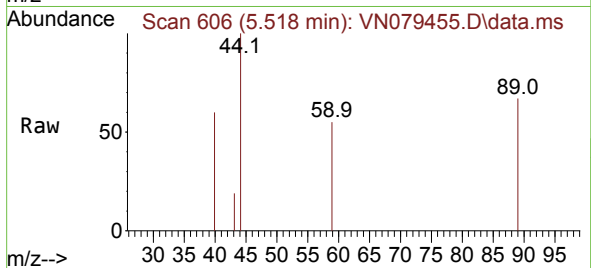
66 0.0 25.4 38.2#



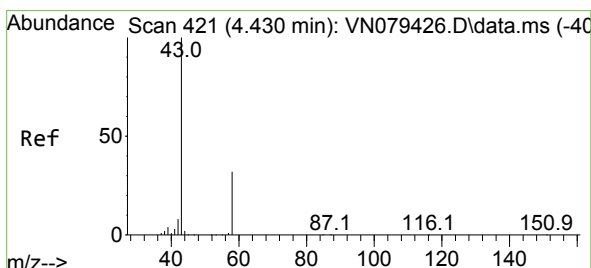
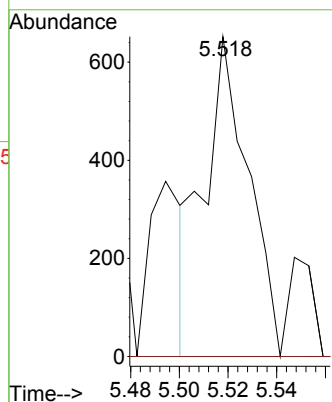
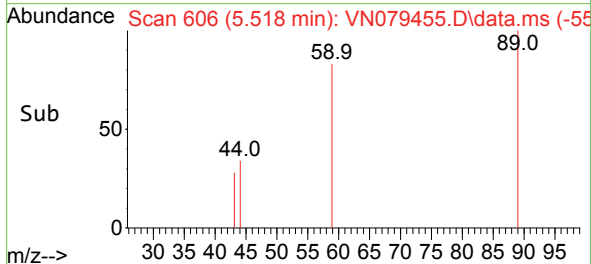


#11
Tert butyl alcohol
Concen: 1.799 ug/l
RT: 5.518 min Scan# 608
Delta R.T. -0.012 min
Lab File: VN079455.D
Acq: 06 Oct 2023 18:20

Instrument :
MSVOA_N
ClientSampleId :

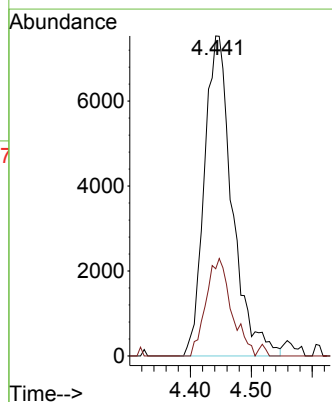
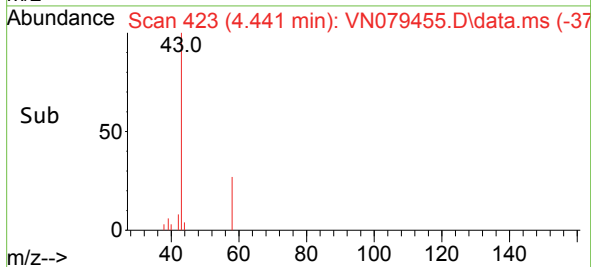
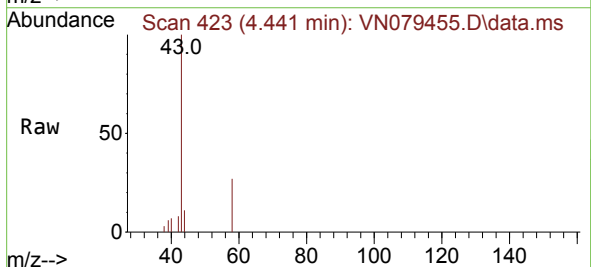


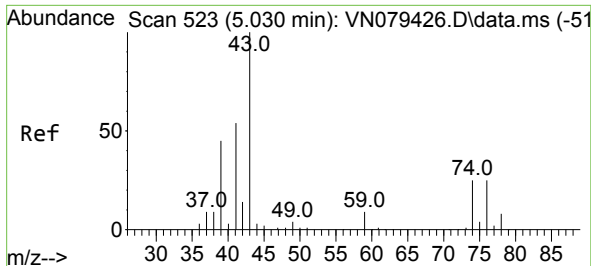
Tgt Ion: 59 Resp: 818
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 20.017 ug/l
RT: 4.441 min Scan# 423
Delta R.T. 0.011 min
Lab File: VN079455.D
Acq: 06 Oct 2023 18:20

Tgt Ion: 43 Resp: 23980
Ion Ratio Lower Upper
43 100
58 27.2 28.0 42.0#

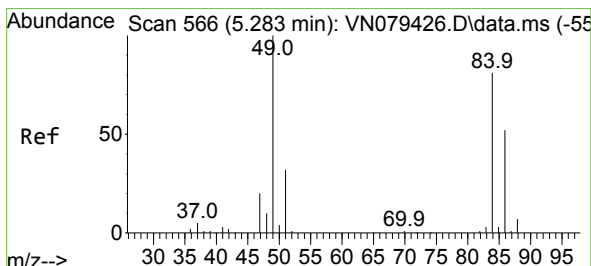
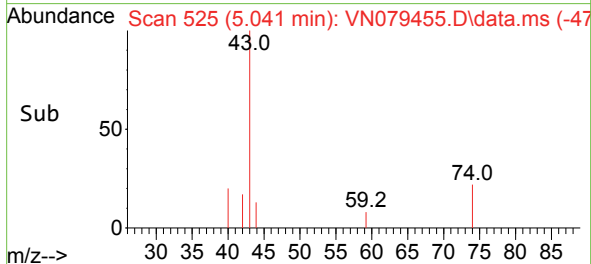
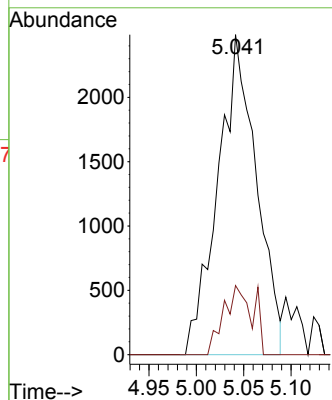
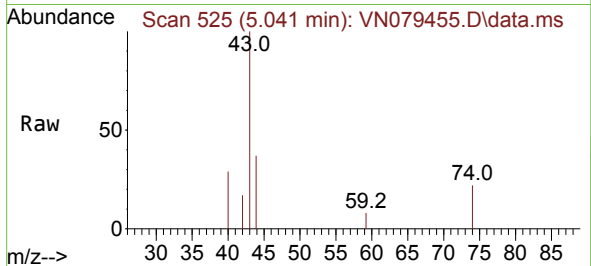




#18
Methyl Acetate
Concen: 1.200 ug/l
RT: 5.041 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN079455.D
Acq: 06 Oct 2023 18:20

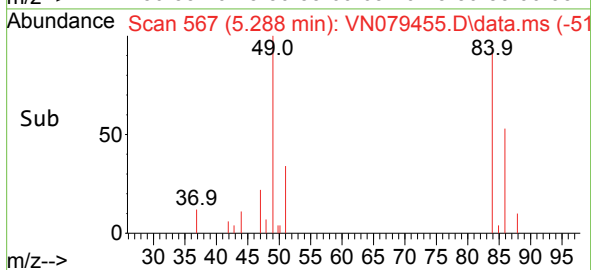
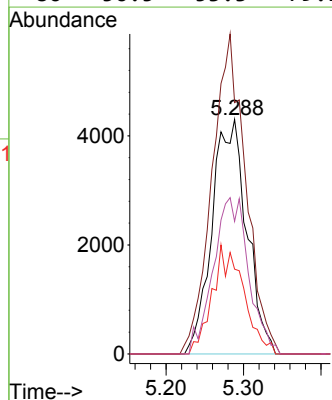
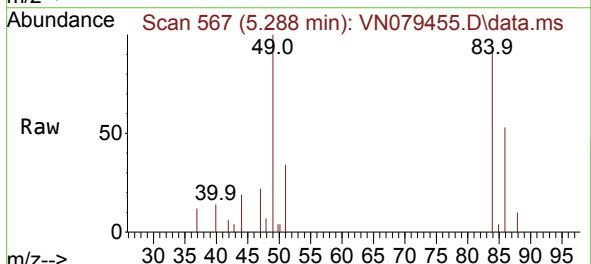
Instrument :
MSVOA_N
ClientSampleId :

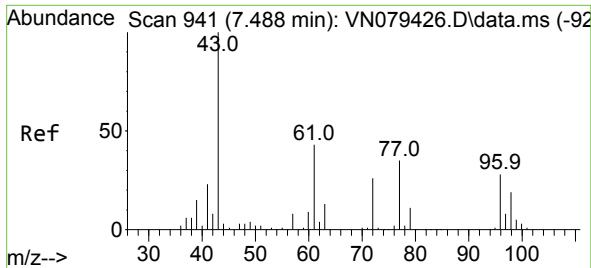
Tgt Ion: 43 Resp: 7038
Ion Ratio Lower Upper
43 100
74 16.1 26.2 39.4#



#20
Methylene Chloride
Concen: 4.554 ug/l
RT: 5.288 min Scan# 567
Delta R.T. 0.005 min
Lab File: VN079455.D
Acq: 06 Oct 2023 18:20

Tgt Ion: 84 Resp: 13381
Ion Ratio Lower Upper
84 100
49 107.2 79.7 119.5
51 36.1 25.2 37.8
86 56.5 53.3 79.9

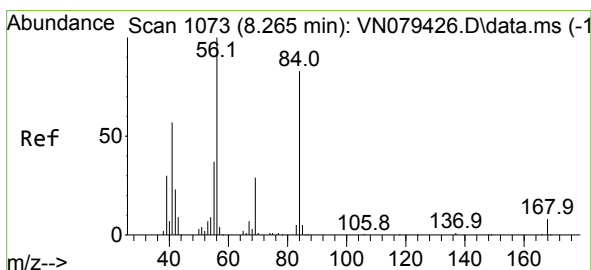
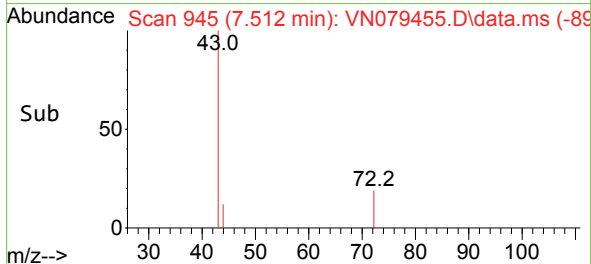
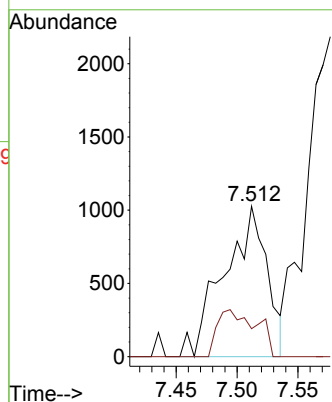
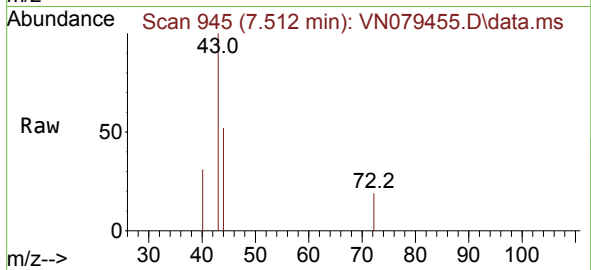




#25
2-Butanone
Concen: 1.422 ug/l
RT: 7.512 min Scan# 941
Delta R.T. 0.024 min
Lab File: VN079455.D
Acq: 06 Oct 2023 18:20

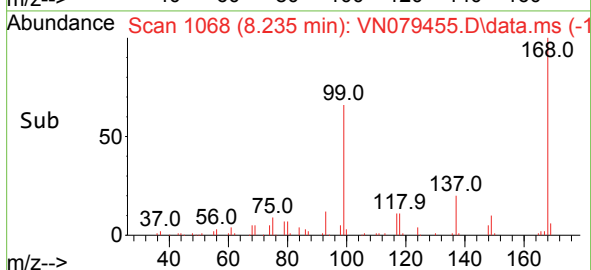
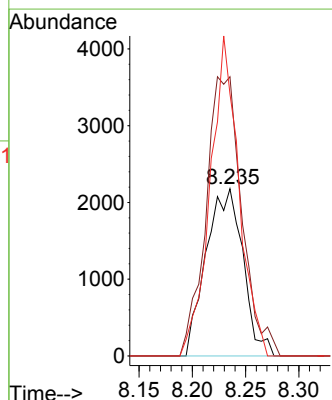
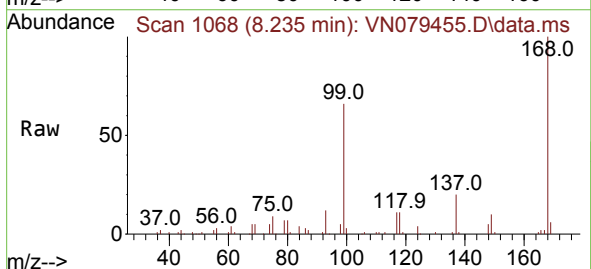
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MSVOA_N
ClientSampleId :

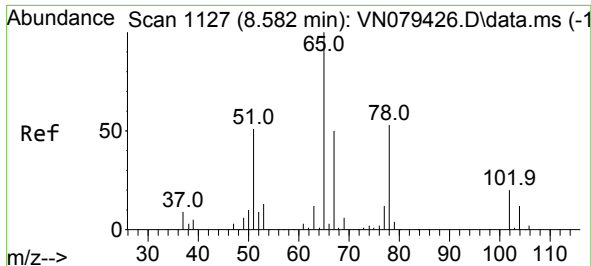
Tgt Ion: 43 Resp: 2529
Ion Ratio Lower Upper
43 100
72 18.6 30.2 45.2#



#31
Cyclohexane
Concen: 1.225 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.030 min
Lab File: VN079455.D
Acq: 06 Oct 2023 18:20

Tgt Ion: 56 Resp: 5247
Ion Ratio Lower Upper
56 100
69 166.9 26.8 40.2#
84 156.7 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 65.043 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN079455.D

Acq: 06 Oct 2023 18:20

Instrument :

MSVOA_N

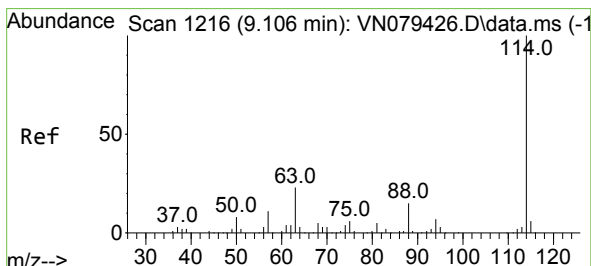
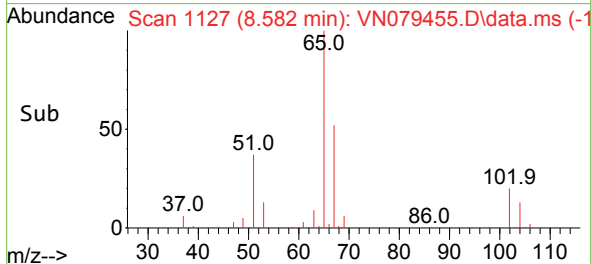
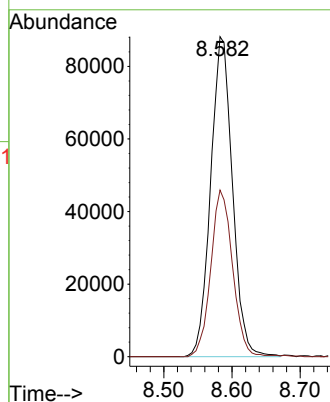
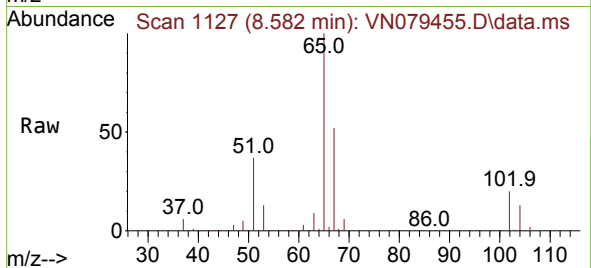
ClientSampleId :

Tgt Ion: 65 Resp: 196450

Ion Ratio Lower Upper

65 100

67 52.1 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: VN079455.D

Acq: 06 Oct 2023 18:20

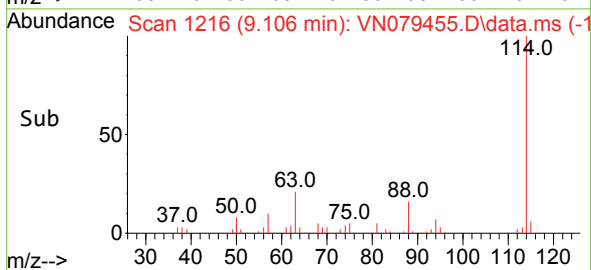
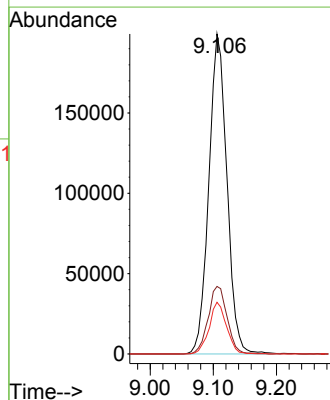
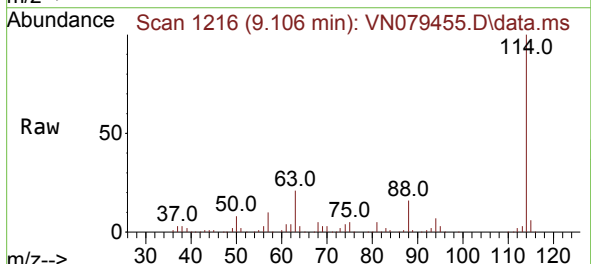
Tgt Ion: 114 Resp: 396958

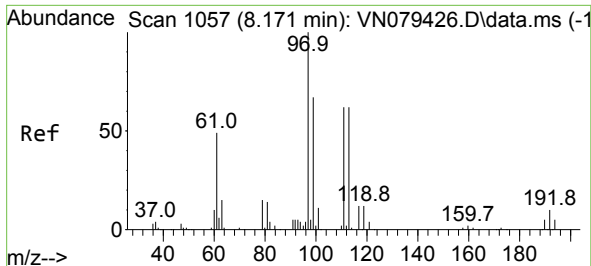
Ion Ratio Lower Upper

114 100

63 21.1 0.0 36.4

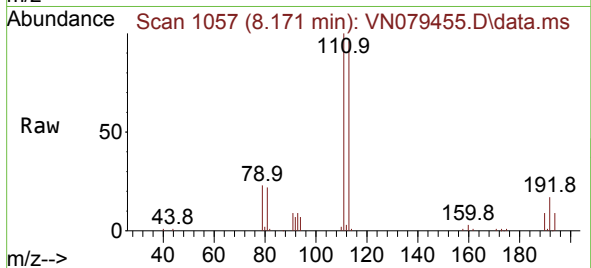
88 16.2 0.0 30.6



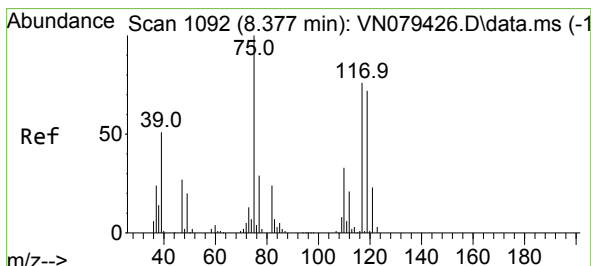
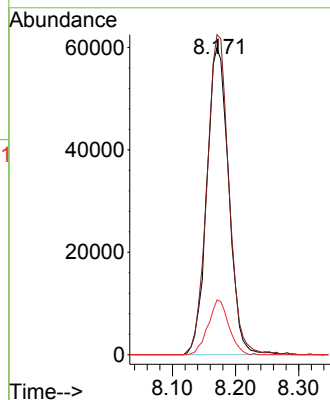
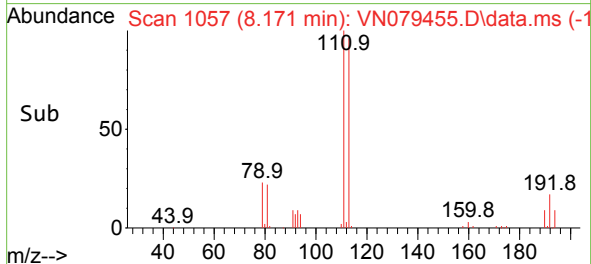


#35
Dibromofluoromethane
Concen: 50.680 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN079455.D
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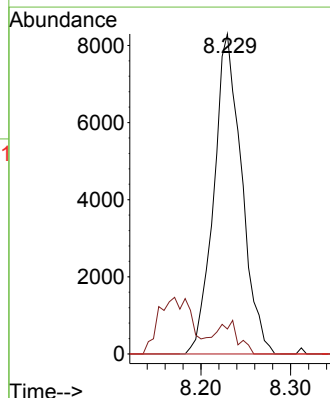
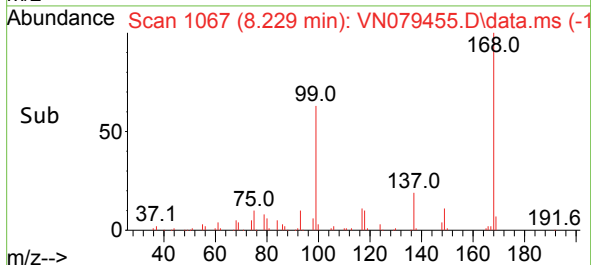
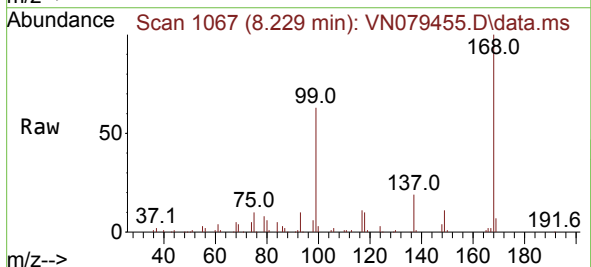


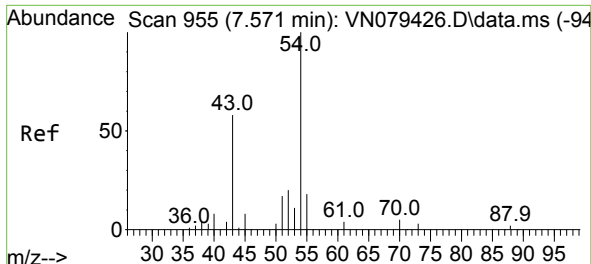
Tgt Ion:113 Resp: 144573
Ion Ratio Lower Upper
113 100
111 103.8 82.6 123.8
192 16.8 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.171 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN079455.D
Acq: 06 Oct 2023 18:20

Tgt Ion: 75 Resp: 17856
Ion Ratio Lower Upper
75 100
110 8.1 19.1 57.3#
77 0.0 25.0 37.4#

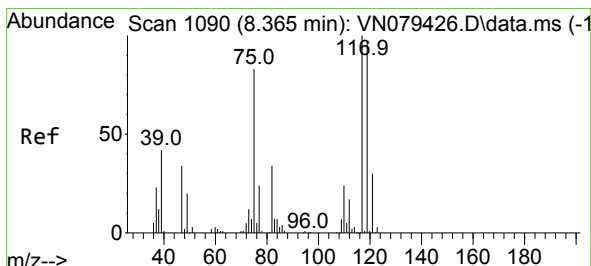
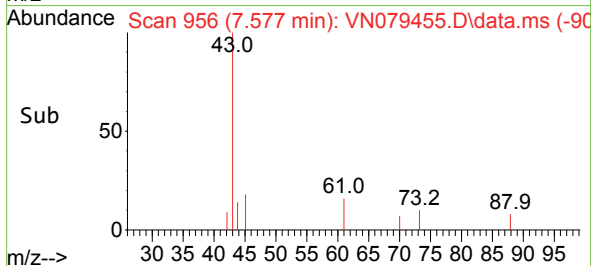
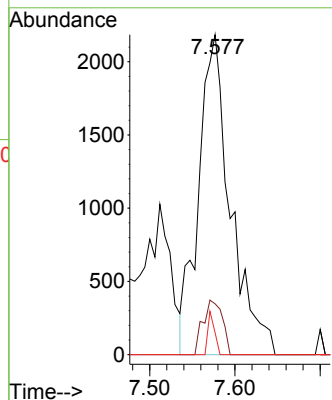
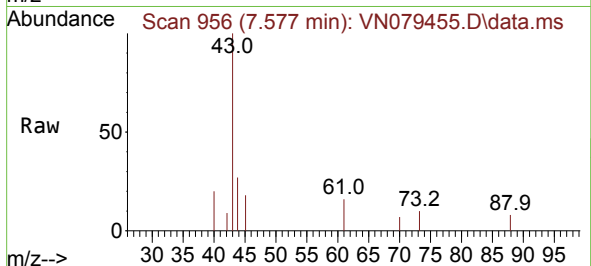




#37
Ethyl Acetate
Concen: 1.341 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN079455.D
Acq: 06 Oct 2023 18:20

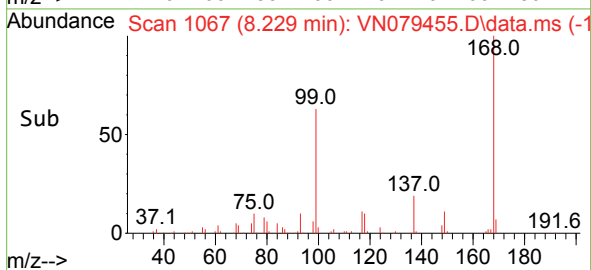
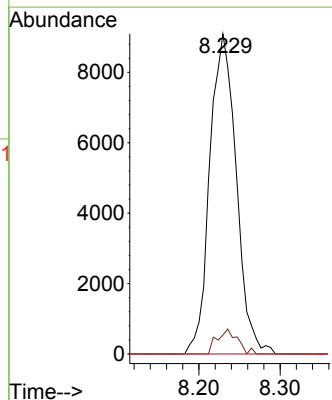
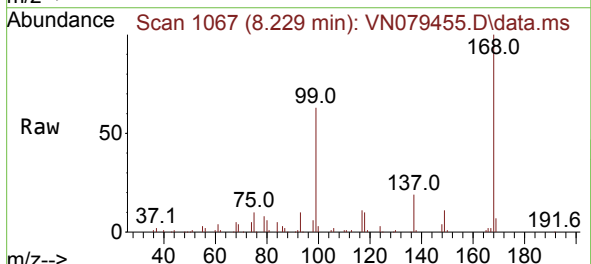
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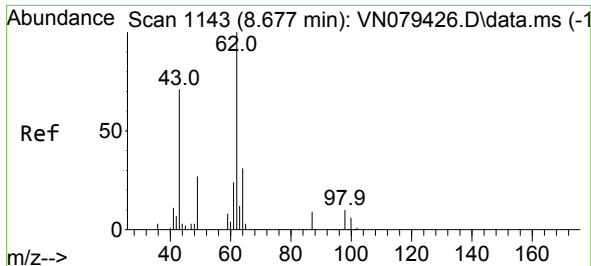
Tgt Ion: 43 Resp: 5715
Ion Ratio Lower Upper
43 100
61 10.3 13.2 19.8#
70 2.7 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 4.804 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.135 min
Lab File: VN079455.D
Acq: 06 Oct 2023 18:20

Tgt Ion: 117 Resp: 20590
Ion Ratio Lower Upper
117 100
119 5.9 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.363 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.018 min

Lab File: VN079455.D

Acq: 06 Oct 2023 18:20

Instrument :

MSVOA_N

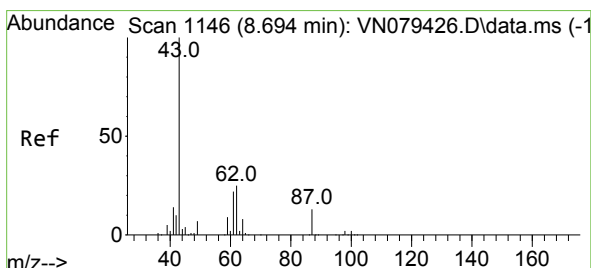
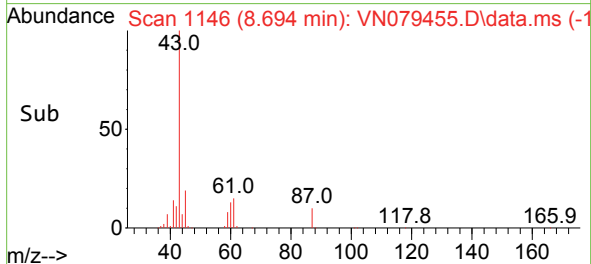
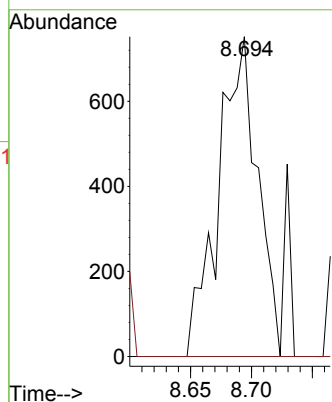
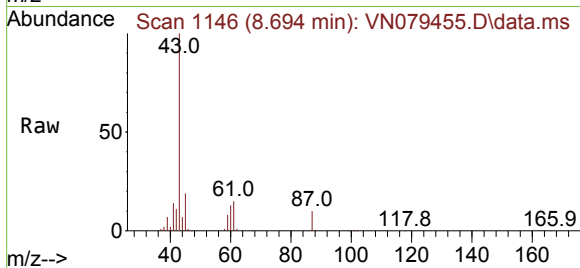
ClientSampleId :

Tgt Ion: 62 Resp: 1677

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 41.887 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. -0.000 min

Lab File: VN079455.D

Acq: 06 Oct 2023 18:20

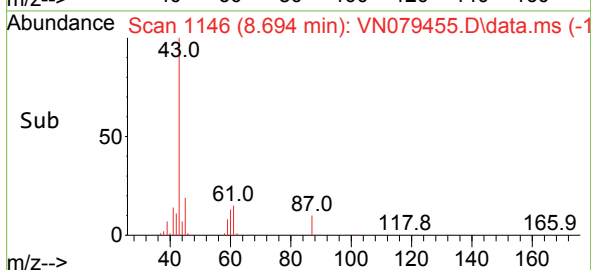
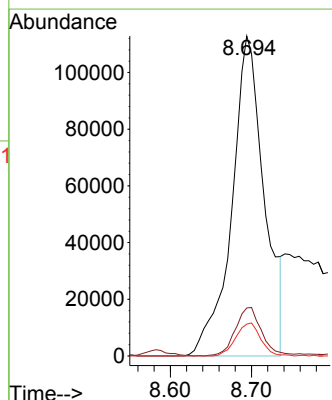
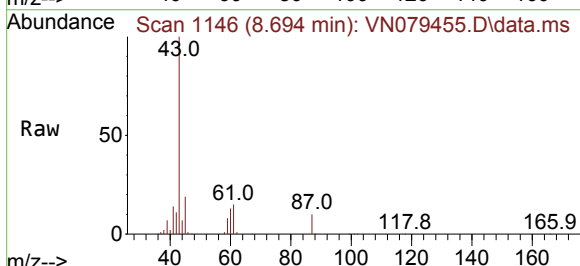
Tgt Ion: 43 Resp: 312630

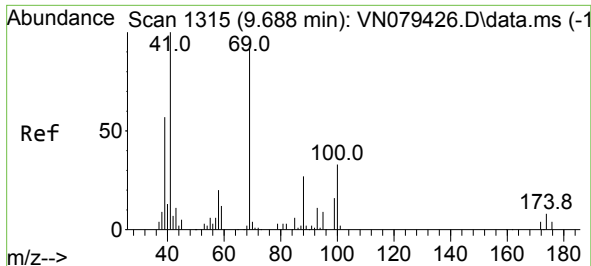
Ion Ratio Lower Upper

43 100

61 12.3 24.7 37.1#

87 7.9 14.6 21.8#

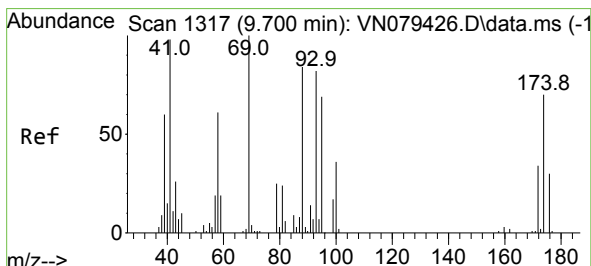
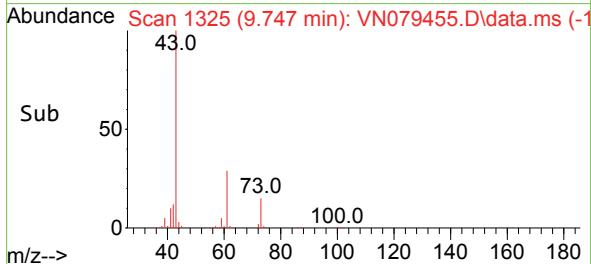
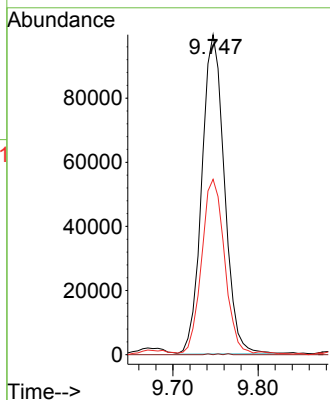
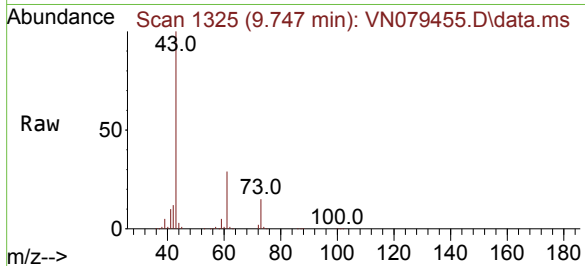




#48
Methyl methacrylate
Concen: 57.133 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN079455.D
Acq: 06 Oct 2023 18:20

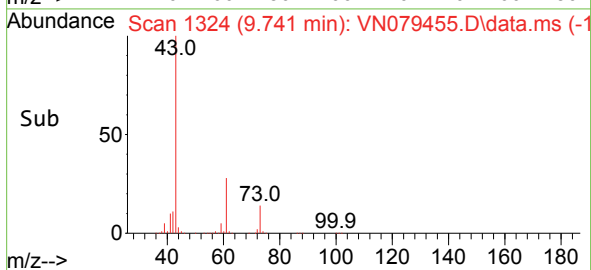
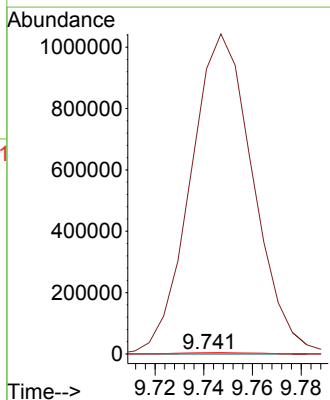
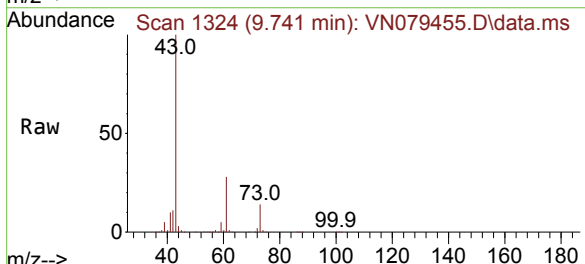
Instrument :
MSVOA_N
ClientSampleId :

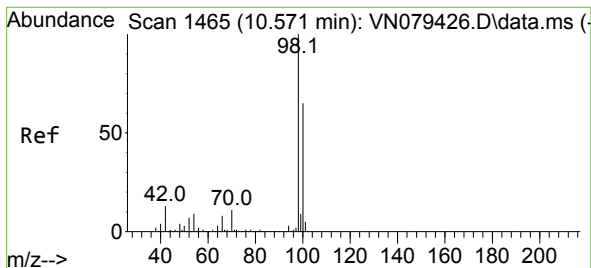
Tgt Ion: 41 Resp: 182730
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 57.1 54.6 81.8



#49
1,4-Dioxane
Concen: 4.974 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.041 min
Lab File: VN079455.D
Acq: 06 Oct 2023 18:20

Tgt Ion: 88 Resp: 293
Ion Ratio Lower Upper
88 100
43 641053.2 17.0 25.6#
58 3431.1 47.0 70.4#

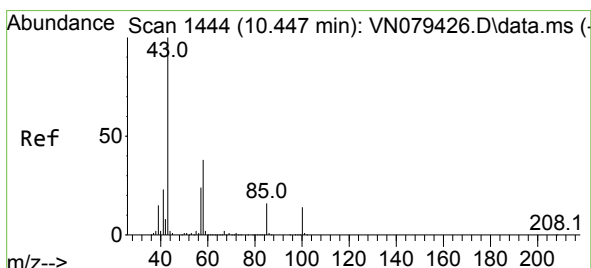
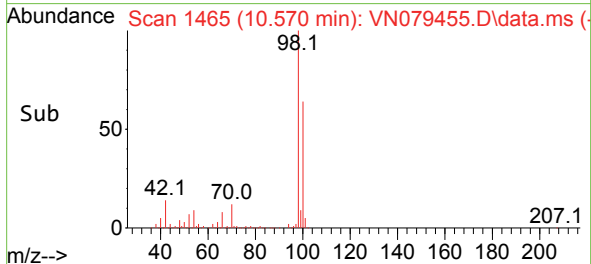
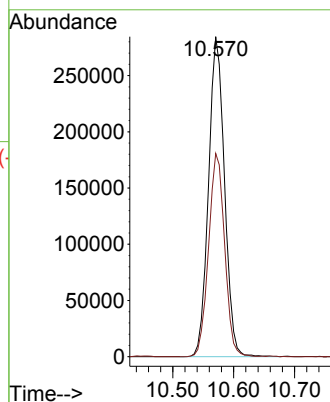
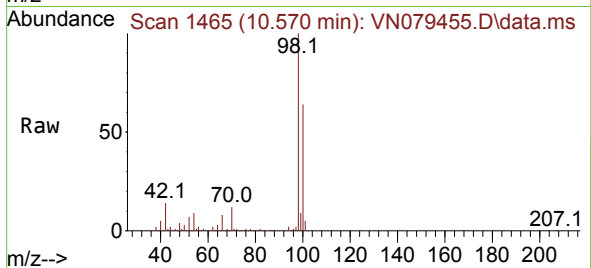




#50
Toluene-d8
Concen: 50.208 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079455.D
Acq: 06 Oct 2023 18:20

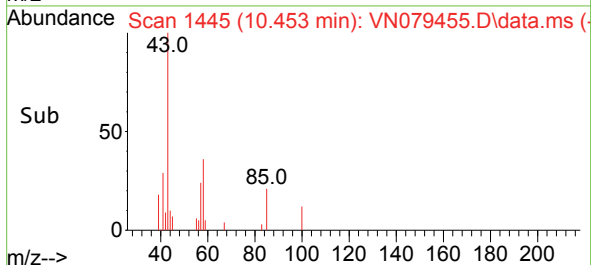
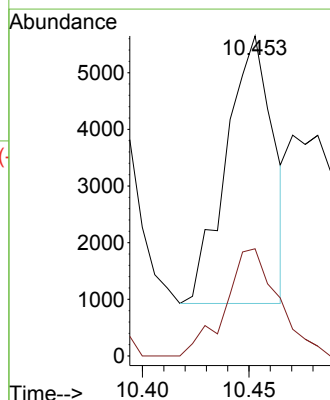
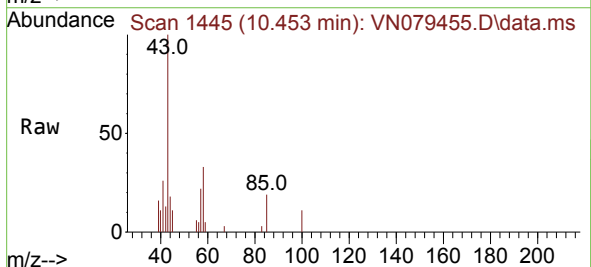
Instrument :
MSVOA_N
ClientSampleId :

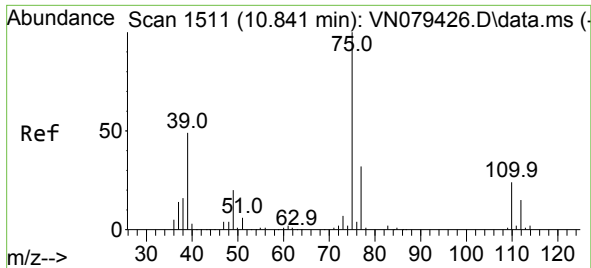
Tgt Ion: 98 Resp: 518235
Ion Ratio Lower Upper
98 100
100 63.8 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 1.724 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN079455.D
Acq: 06 Oct 2023 18:20

Tgt Ion: 43 Resp: 7265
Ion Ratio Lower Upper
43 100
58 44.7 36.6 54.8

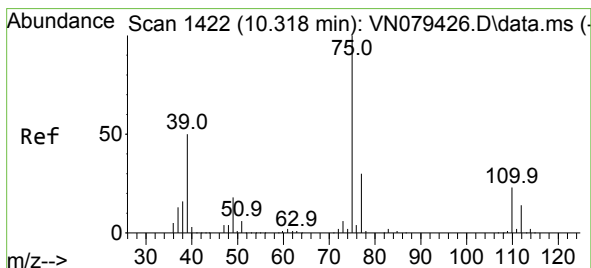
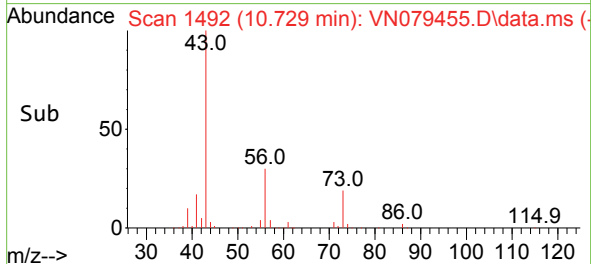
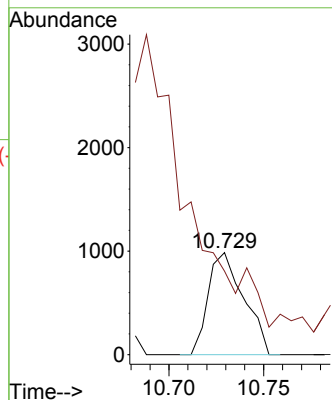
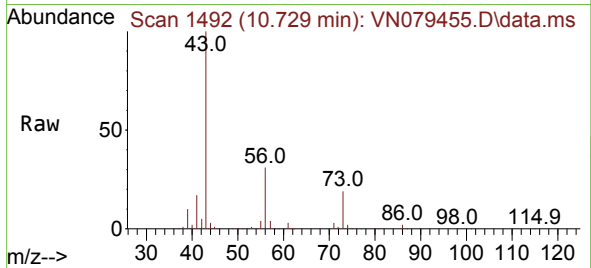




#53
 t-1,3-Dichloropropene
 Concen: 0.287 ug/l
 RT: 10.729 min Scan# 1492
 Delta R.T. -0.112 min
 Lab File: VN079455.D
 Acq: 06 Oct 2023 18:20

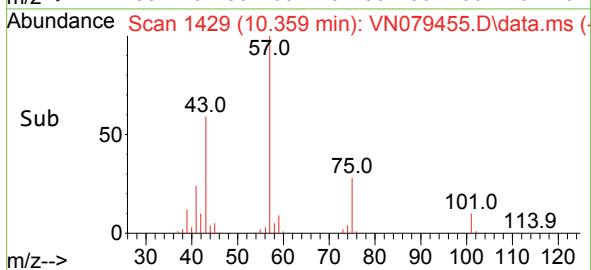
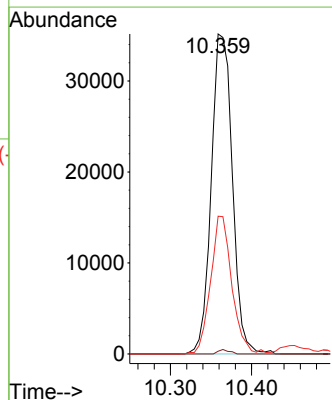
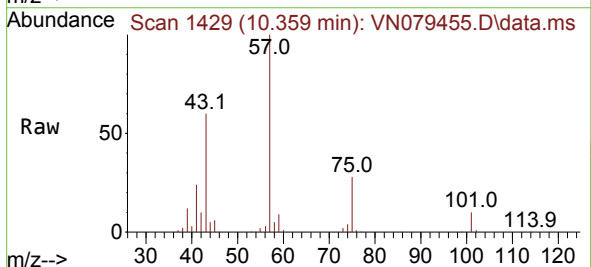
Instrument :
 MSVOA_N
 ClientSampleId :

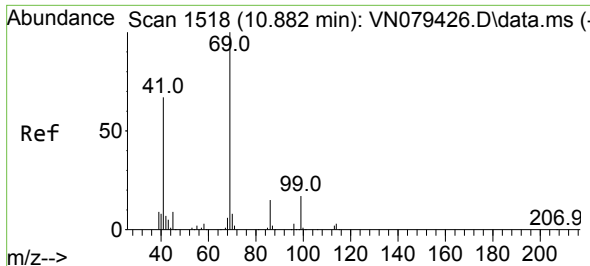
Tgt Ion: 75 Resp: 1291
 Ion Ratio Lower Upper
 75 100
 77 42.1 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 12.910 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.041 min
 Lab File: VN079455.D
 Acq: 06 Oct 2023 18:20

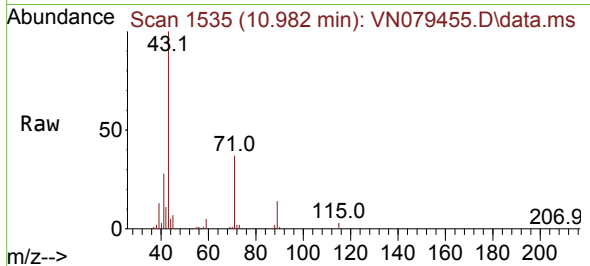
Tgt Ion: 75 Resp: 63568
 Ion Ratio Lower Upper
 75 100
 77 0.9 26.1 39.1#
 39 43.1 31.6 47.4



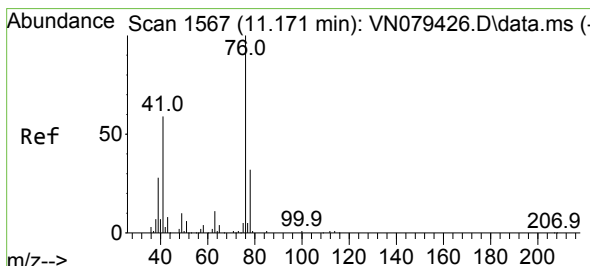
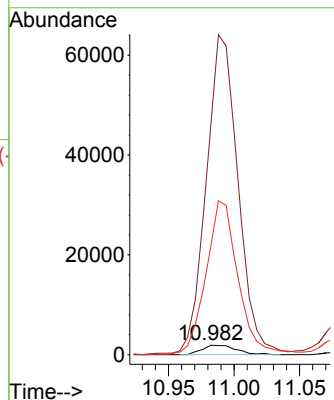
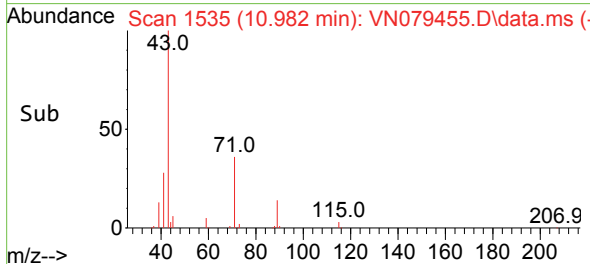


#56
Ethyl methacrylate
Concen: 0.838 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.100 min
Lab File: VN079455.D
Acq: 06 Oct 2023 18:20

Instrument :
MSVOA_N
ClientSampleId :

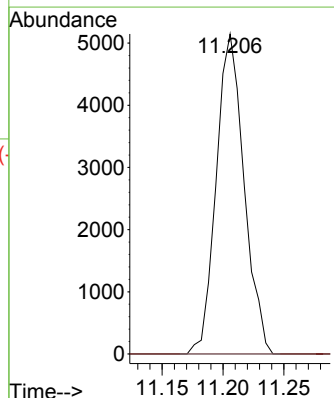
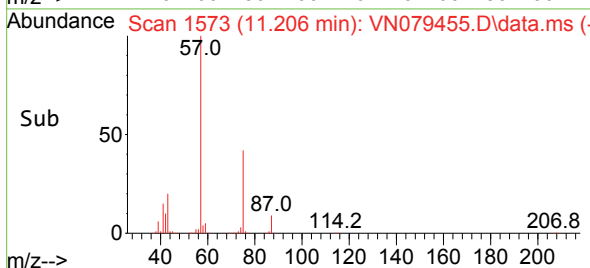
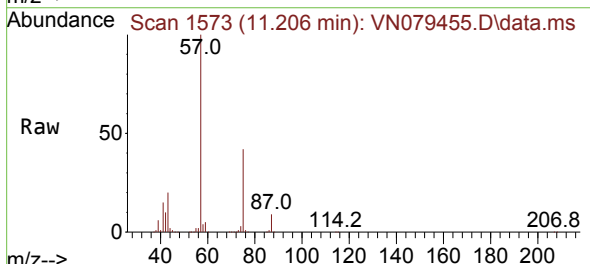


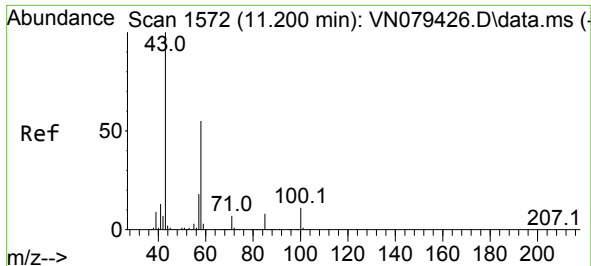
Tgt Ion: 69 Resp: 3459
Ion Ratio Lower Upper
69 100
41 3145.0 39.6 59.4#
39 1520.5 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.578 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN079455.D
Acq: 06 Oct 2023 18:20

Tgt Ion: 76 Resp: 8187
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

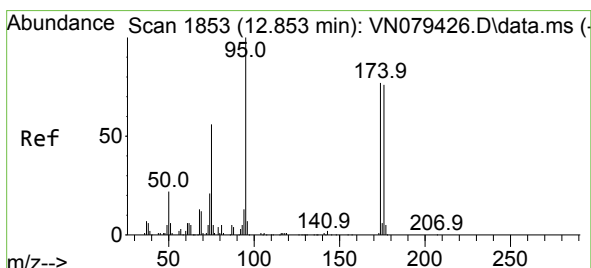
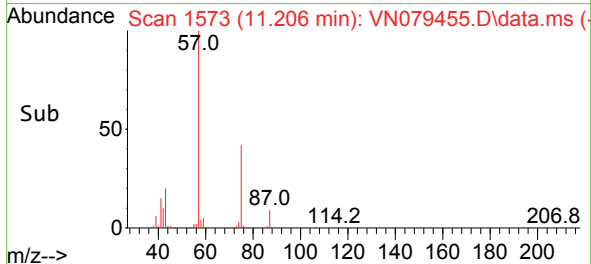
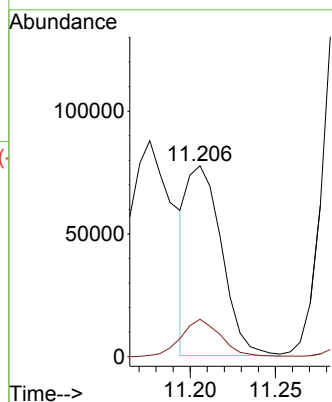
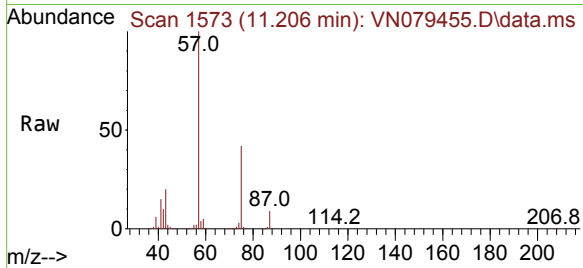




#59
2-Hexanone
Concen: 35.792 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN079455.D
Acq: 06 Oct 2023 18:20

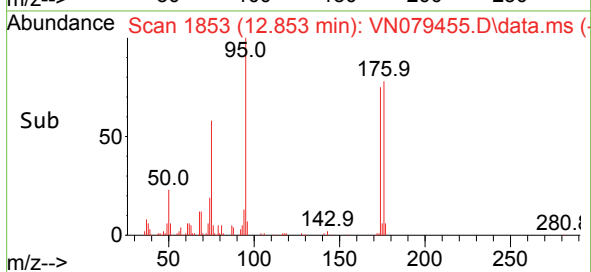
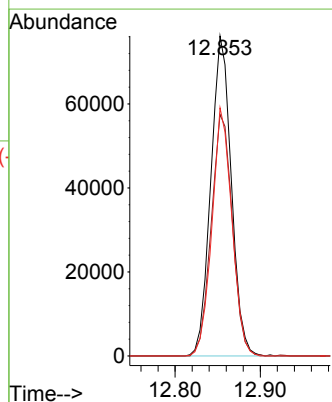
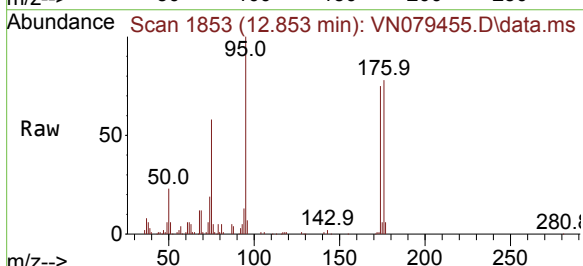
Instrument :
MSVOA_N
ClientSampleId :

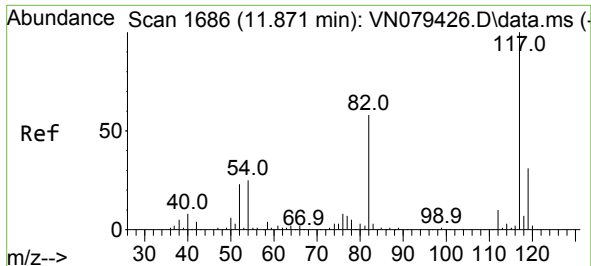
Tgt Ion: 43 Resp: 108820
Ion Ratio Lower Upper
43 100
58 23.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 38.399 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079455.D
Acq: 06 Oct 2023 18:20

Tgt Ion: 95 Resp: 127197
Ion Ratio Lower Upper
95 100
174 77.6 0.0 143.8
176 75.4 0.0 135.8

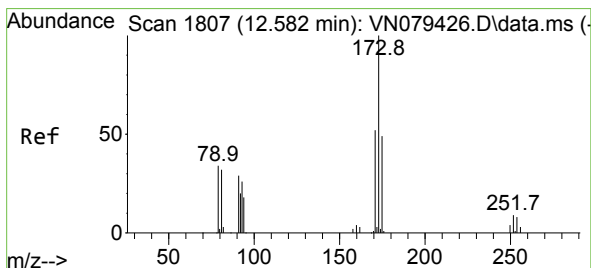
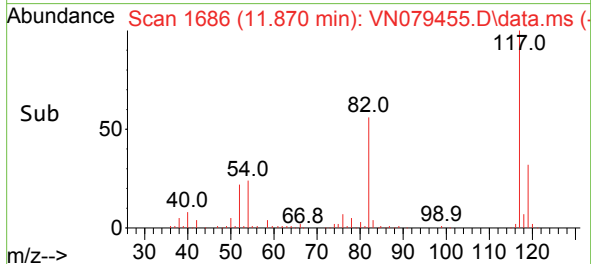
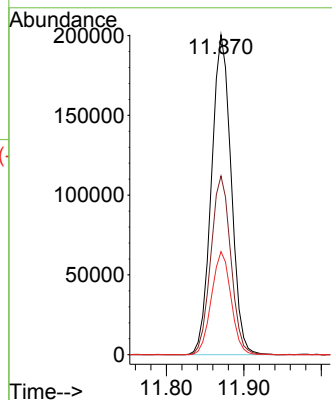
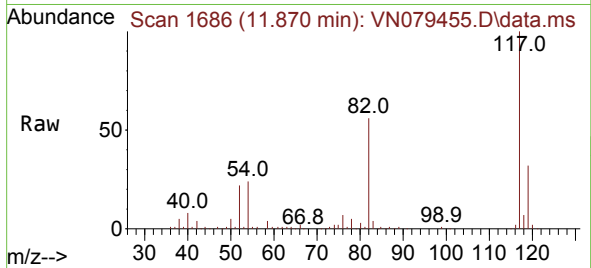




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079455.D
Acq: 06 Oct 2023 18:20

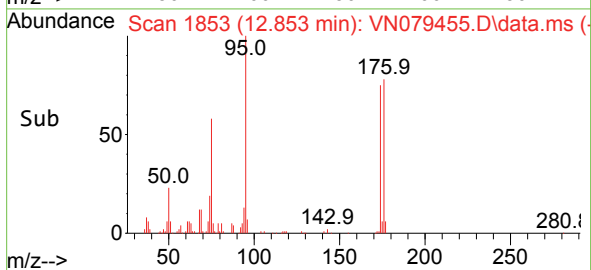
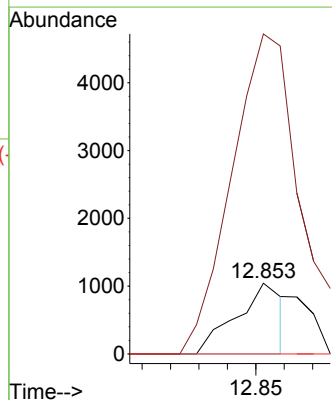
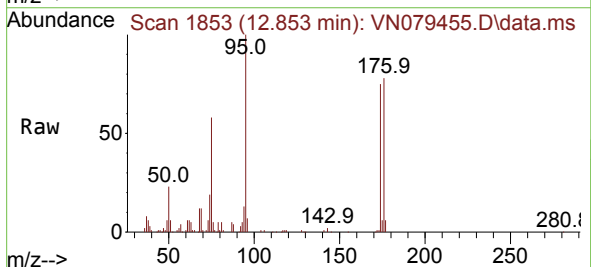
Instrument :
MSVOA_N
ClientSampleId :

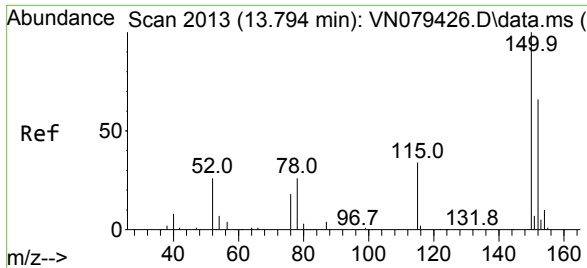
Tgt Ion:117 Resp: 354573
Ion Ratio Lower Upper
117 100
82 55.9 44.0 66.0
119 32.2 25.6 38.4



#71
Bromoform
Concen: 0.558 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.270 min
Lab File: VN079455.D
Acq: 06 Oct 2023 18:20

Tgt Ion:173 Resp: 1180
Ion Ratio Lower Upper
173 100
175 517.0 24.3 73.0#
254 0.0 0.0 0.0

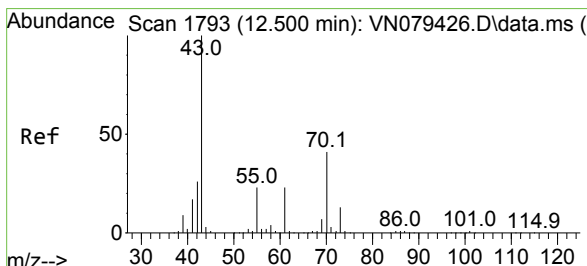
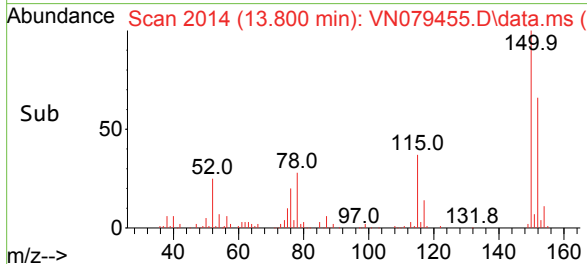
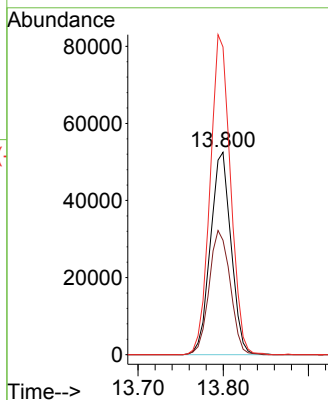
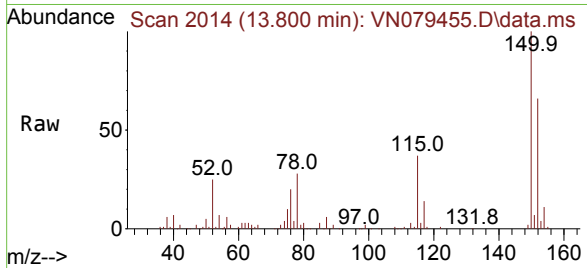




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.800 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VN079455.D
 Acq: 06 Oct 2023 18:20

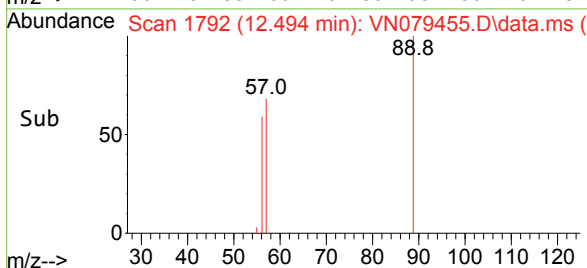
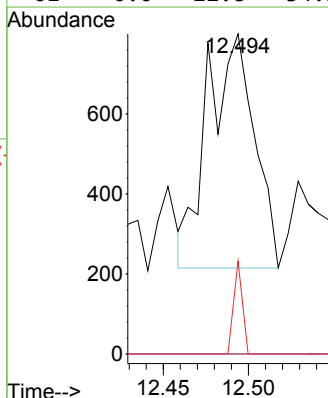
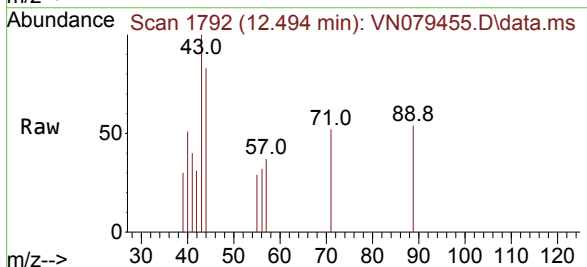
Instrument :
 MSVOA_N
 ClientSampleId :

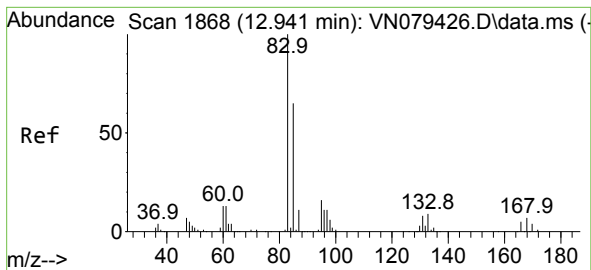
Tgt Ion:152 Resp: 88257
 Ion Ratio Lower Upper
 152 100
 115 62.9 32.3 96.8
 150 156.3 0.0 355.8



#74
 N-ethyl acetate
 Concen: 0.333 ug/l
 RT: 12.494 min Scan# 1792
 Delta R.T. -0.006 min
 Lab File: VN079455.D
 Acq: 06 Oct 2023 18:20

Tgt Ion: 43 Resp: 1121
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.4 65.2#
 55 7.3 21.4 32.0#
 61 0.0 22.8 34.2#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.847 min Scan# 1852

Delta R.T. -0.094 min

Lab File: VN079455.D

Acq: 06 Oct 2023 18:20

Instrument :

MSVOA_N

ClientSampleId :

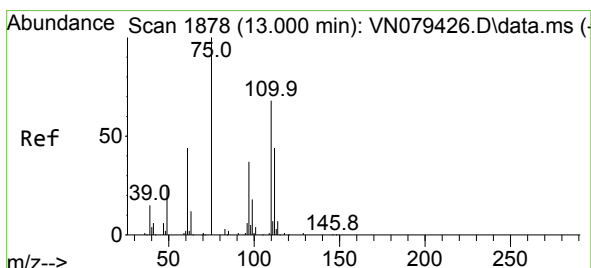
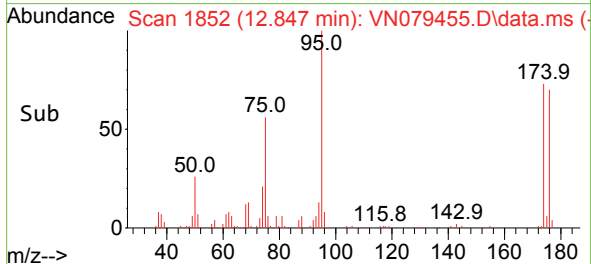
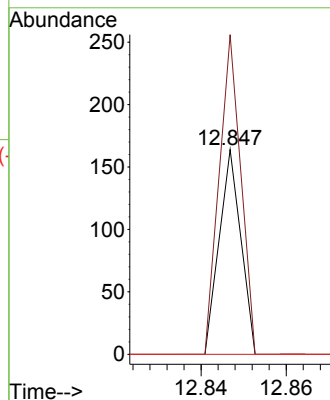
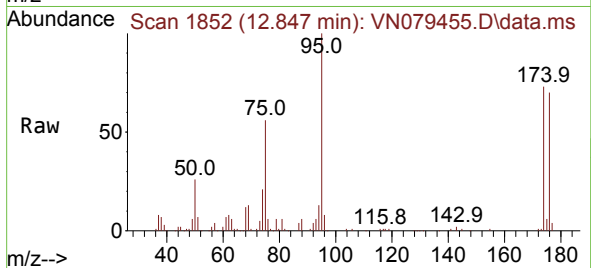
Tgt Ion: 83 Resp: 58

Ion Ratio Lower Upper

83 100

131 155.2 5.0 15.0#

85 0.0 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 28.668 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079455.D

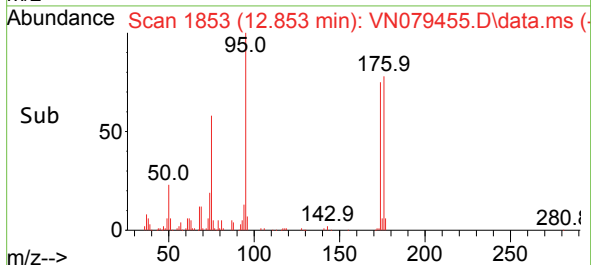
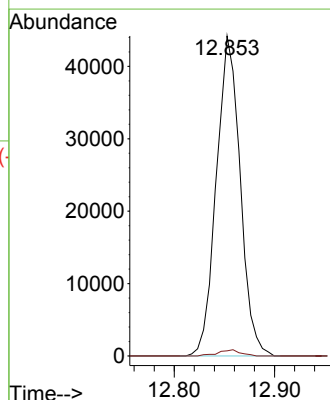
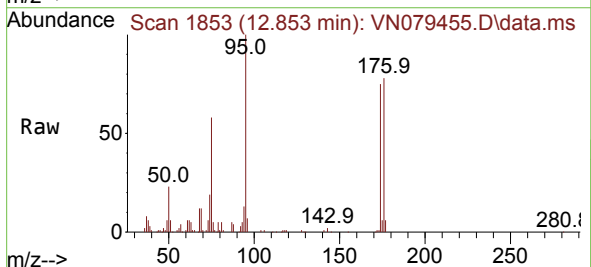
Acq: 06 Oct 2023 18:20

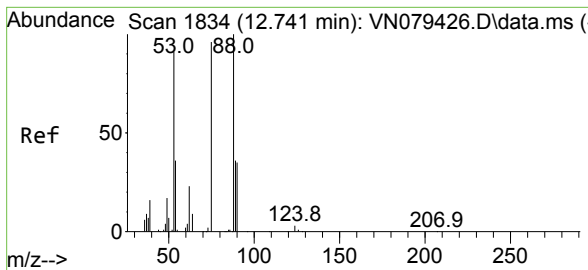
Tgt Ion: 75 Resp: 72951

Ion Ratio Lower Upper

75 100

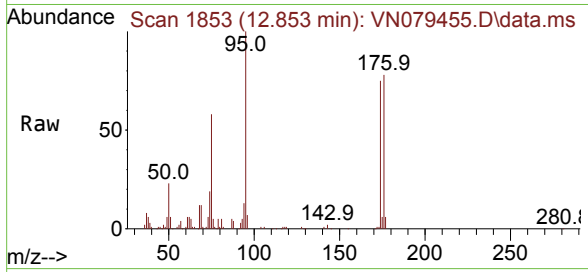
77 1.8 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 83.181 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN079455.D
 Acq: 06 Oct 2023 18:20

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 72951
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

