

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100623\
 Data File : VN079449.D
 Acq On : 06 Oct 2023 15:54
 Operator : JC\MD
 Sample : PB156147ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 06 23:05:00 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

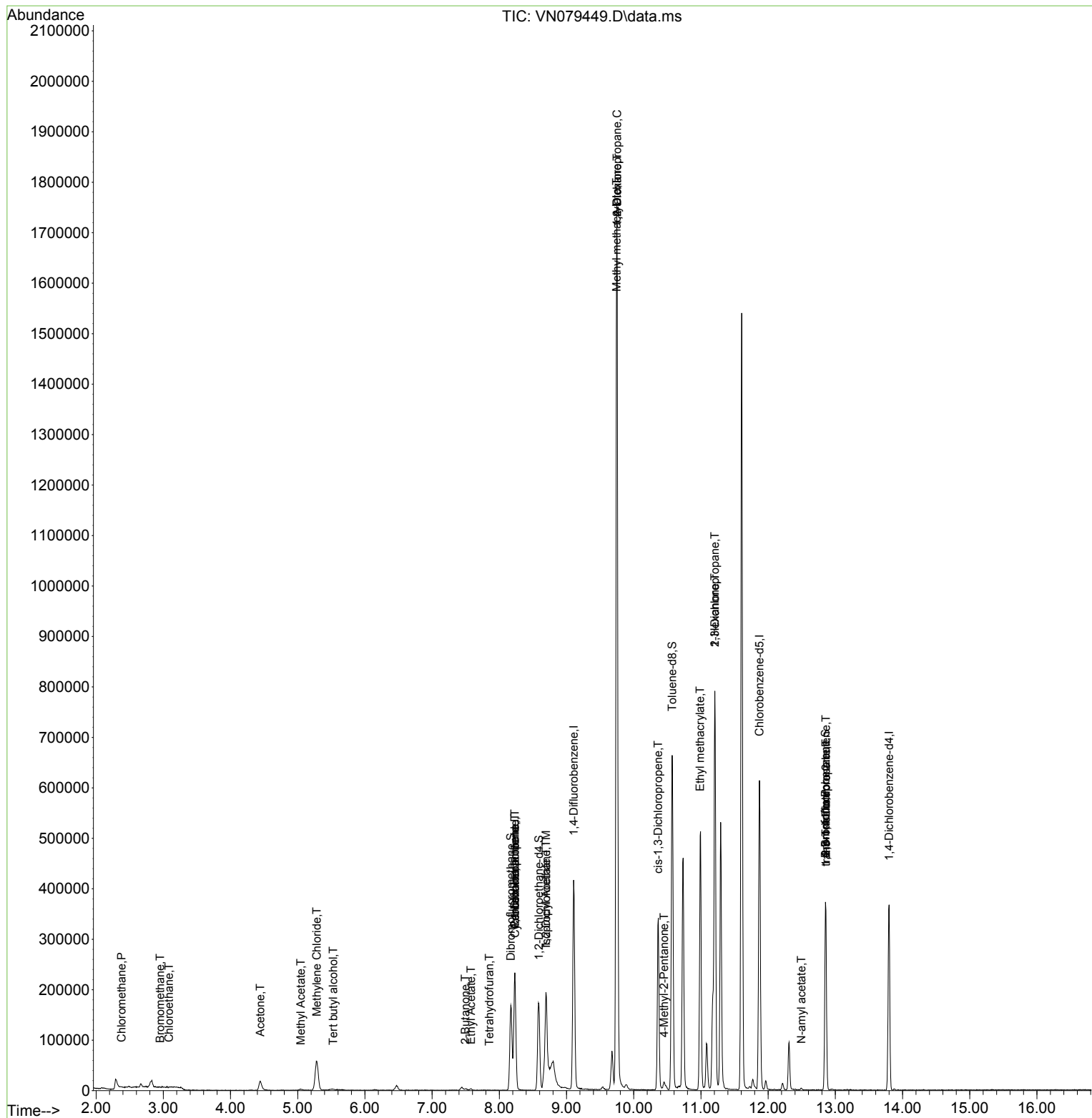
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	156106	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	337678	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	345849	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	94672	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	145423	57.454	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	114.900%
35) Dibromofluoromethane	8.171	113	119189	49.116	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.240%
50) Toluene-d8	10.571	98	446739	50.879	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.760%
62) 4-Bromofluorobenzene	12.853	95	126295	44.820	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	89.640%
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	894	0.320	ug/l #	42
5) Bromomethane	2.954	94	382	0.220	ug/l #	4
6) Chloroethane	3.083	64	639	0.292	ug/l #	43
11) Tert butyl alcohol	5.530	59	278	0.730	ug/l #	72
16) Acetone	4.442	43	33592	33.460	ug/l #	88
18) Methyl Acetate	5.048	43	4376	0.891	ug/l #	62
20) Methylene Chloride	5.283	84	44777	20.006	ug/l #	84
25) 2-Butanone	7.494	43	4809	3.227	ug/l #	65
29) Tetrahydrofuran	7.853	42	193	0.200	ug/l #	40
31) Cyclohexane	8.236	56	4783	1.332	ug/l #	69
36) 1,1-Dichloropropene	8.230	75	15413	4.232	ug/l #	47
37) Ethyl Acetate	7.577	43	4368	1.205	ug/l #	78
38) Carbon Tetrachloride	8.230	117	17807	4.884	ug/l #	17
42) 1,2-Dichloroethane	8.694	62	1148	0.292	ug/l #	73
43) Isopropyl Acetate	8.694	43	241609	38.054	ug/l #	72
45) 1,2-Dichloropropane	9.753	63	2070	0.726	ug/l #	45
48) Methyl methacrylate	9.747	41	161291	59.283	ug/l #	29
49) 1,4-Dioxane	9.753	88	313	6.246	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	15712	4.384	ug/l #	72
54) cis-1,3-Dichloropropene	10.365	75	56500	13.489	ug/l #	72
56) Ethyl methacrylate	10.988	69	2962	0.843	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	7726	1.750	ug/l #	42
59) 2-Hexanone	11.206	43	103349	39.960	ug/l #	46
71) Bromoform	12.853	173	1115	0.540	ug/l #	1
74) N-amyl acetate	12.494	43	1601	0.443	ug/l #	36
76) 1,2,3-Trichloropropane	12.859	75	72164	26.437	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.859	75	72164	76.708	ug/l #	15

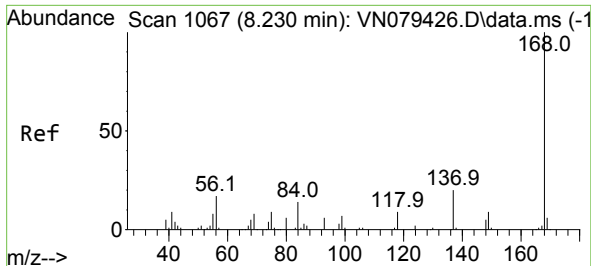
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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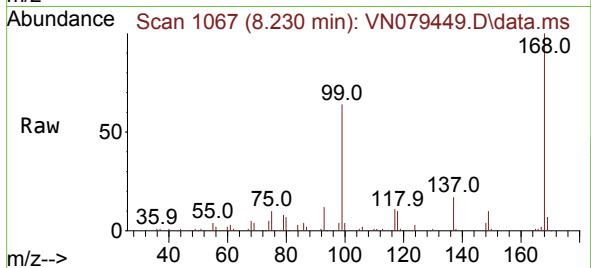
Quant Time: Oct 06 23:05:00 2023
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Quant Title : SW846 8260
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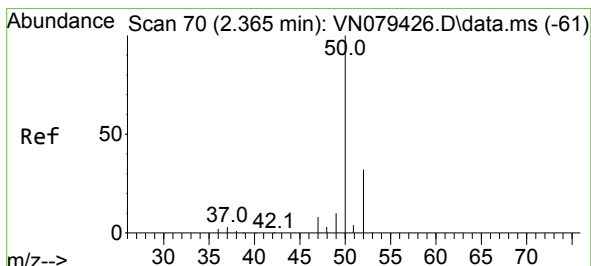
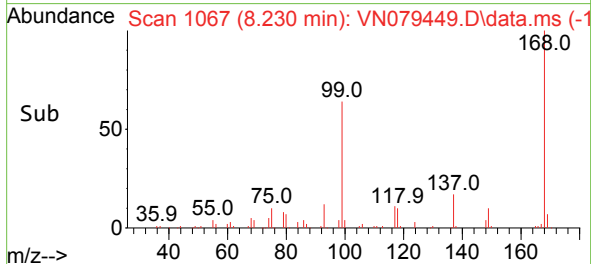
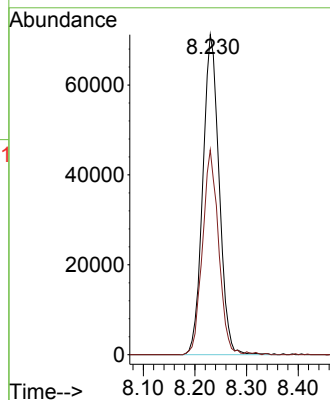


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN079449.D
Acq: 06 Oct 2023 15:54

Instrument :
MSVOA_N
ClientSampleId :

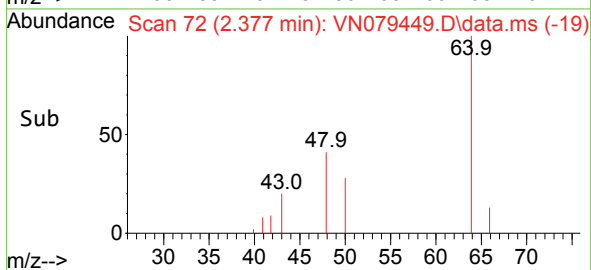
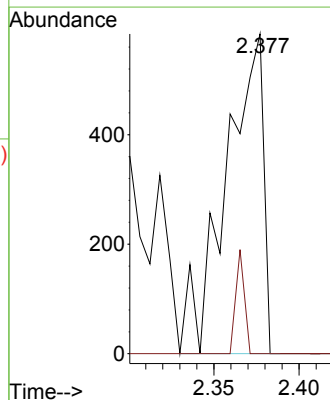
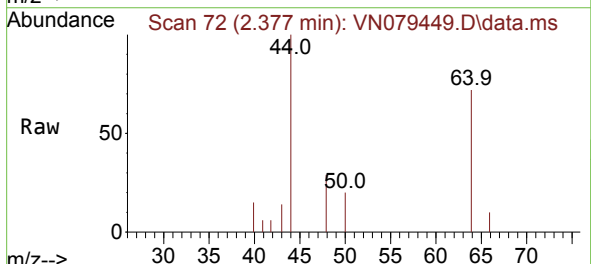


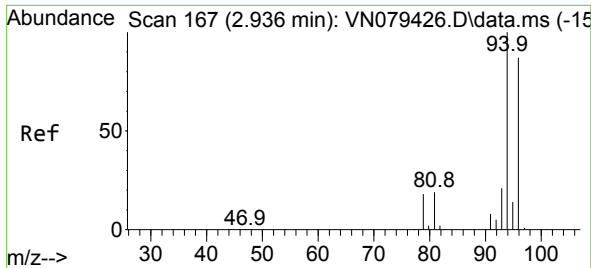
Tgt Ion:168 Resp: 156106
Ion Ratio Lower Upper
168 100
99 64.0 53.0 79.6



#3
Chloromethane
Concen: 0.320 ug/l
RT: 2.377 min Scan# 72
Delta R.T. 0.012 min
Lab File: VN079449.D
Acq: 06 Oct 2023 15:54

Tgt Ion: 50 Resp: 894
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#





#5

Bromomethane

Concen: 0.220 ug/l

RT: 2.954 min Scan# 1

Delta R.T. 0.018 min

Lab File: VN079449.D

Acq: 06 Oct 2023 15:54

Instrument :

MSVOA_N

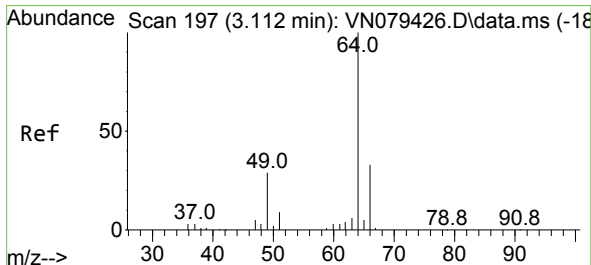
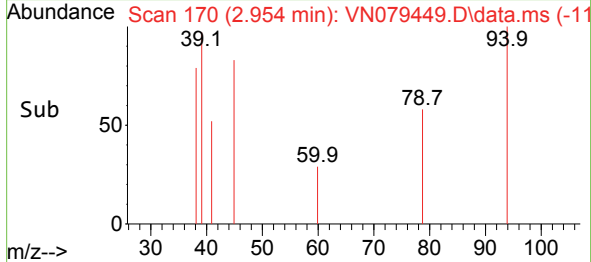
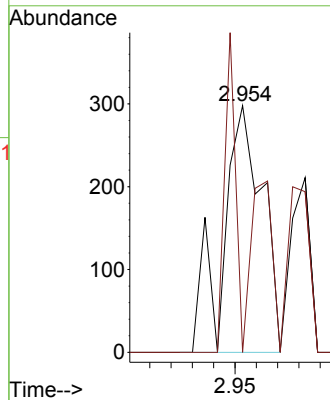
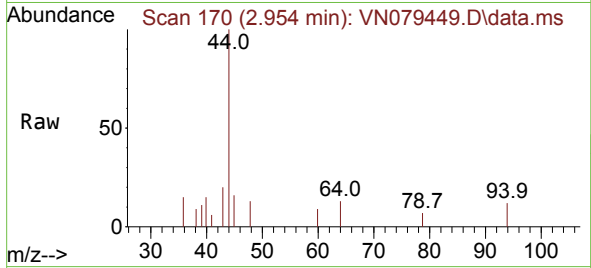
ClientSampleId :

Tgt Ion: 94 Resp: 382

Ion Ratio Lower Upper

94 100

96 0.0 73.1 109.7#



#6

Chloroethane

Concen: 0.292 ug/l

RT: 3.083 min Scan# 192

Delta R.T. -0.029 min

Lab File: VN079449.D

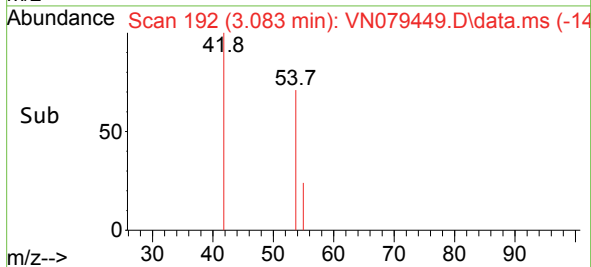
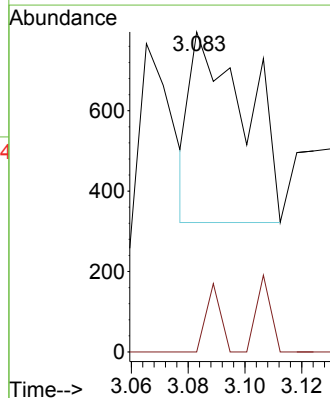
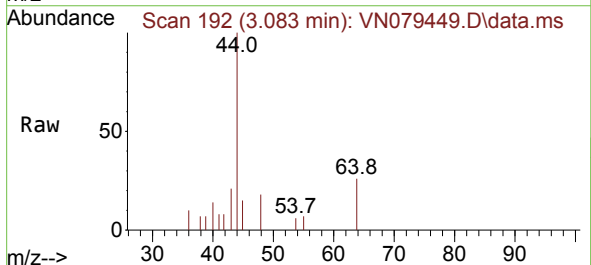
Acq: 06 Oct 2023 15:54

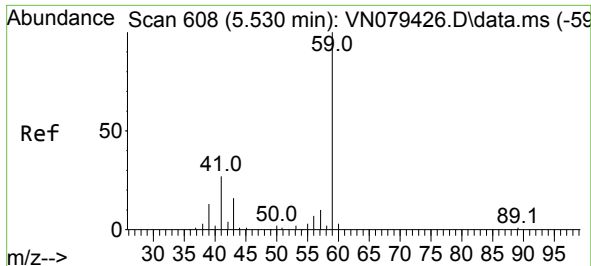
Tgt Ion: 64 Resp: 639

Ion Ratio Lower Upper

64 100

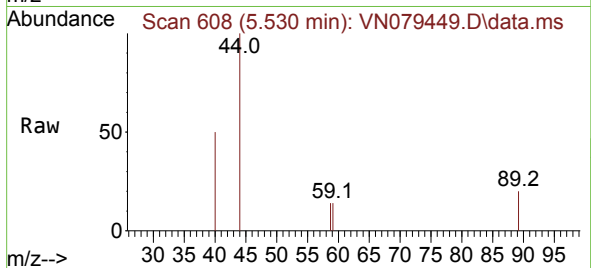
66 0.0 25.4 38.2#



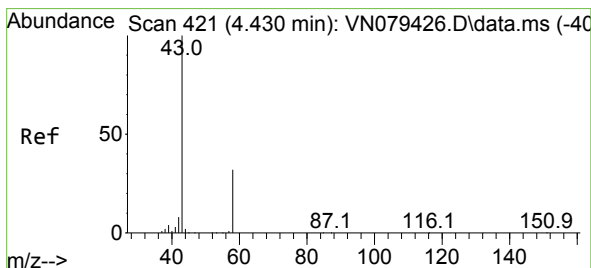
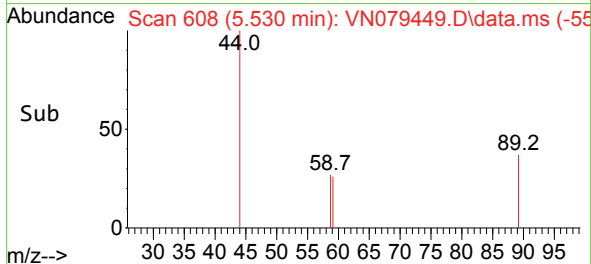
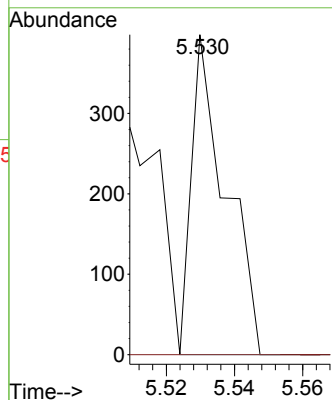


#11
Tert butyl alcohol
Concen: 0.730 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.000 min
Lab File: VN079449.D
Acq: 06 Oct 2023 15:54

Instrument :
MSVOA_N
ClientSampleId :

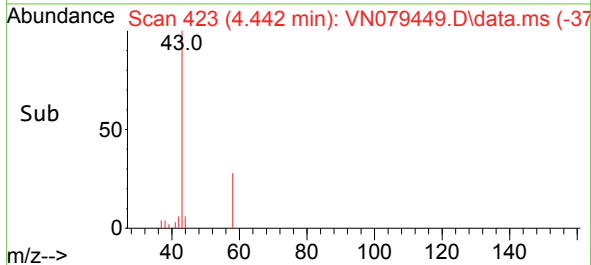
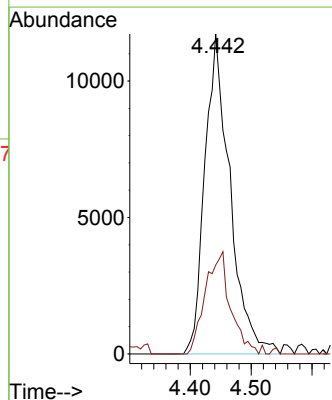
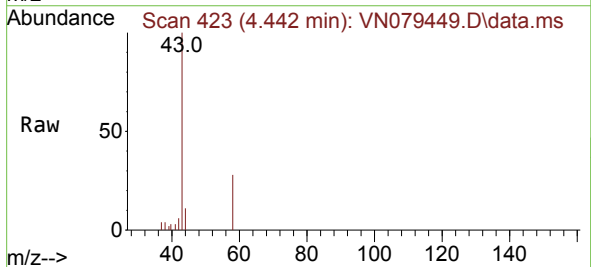


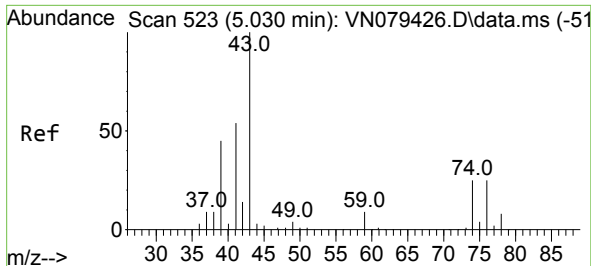
Tgt Ion: 59 Resp: 278
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 33.460 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.012 min
Lab File: VN079449.D
Acq: 06 Oct 2023 15:54

Tgt Ion: 43 Resp: 33592
Ion Ratio Lower Upper
43 100
58 27.8 28.0 42.0#

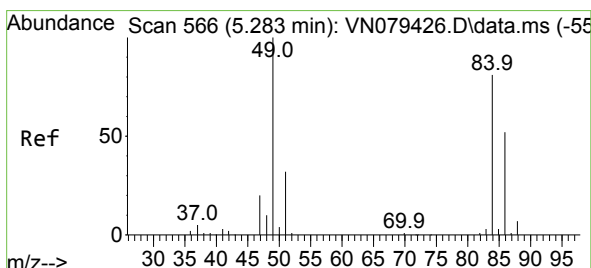
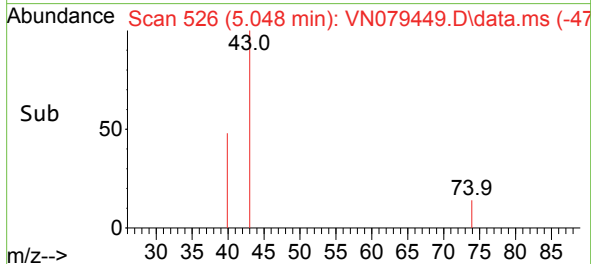
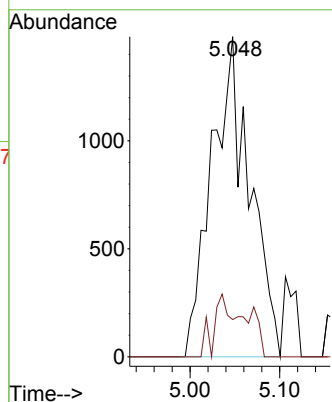
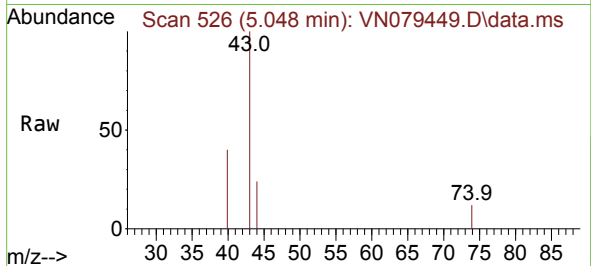




#18
Methyl Acetate
Concen: 0.891 ug/l
RT: 5.048 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN079449.D
Acq: 06 Oct 2023 15:54

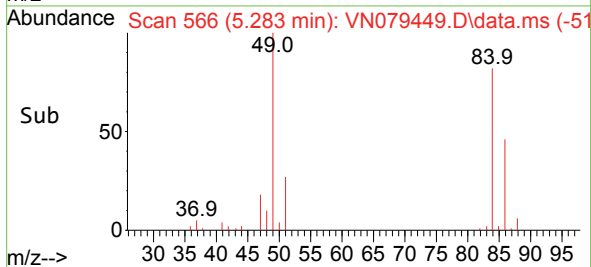
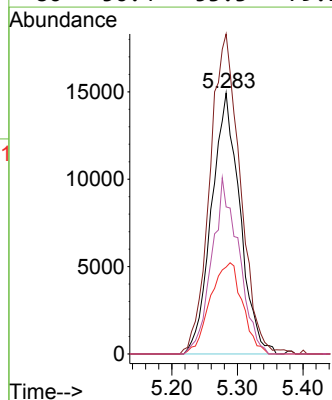
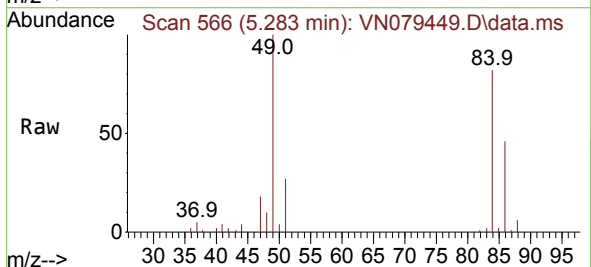
Instrument :
MSVOA_N
ClientSampleId :

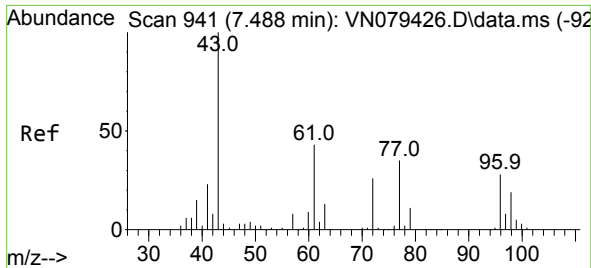
Tgt Ion: 43 Resp: 4376
Ion Ratio Lower Upper
43 100
74 11.6 26.2 39.4#



#20
Methylene Chloride
Concen: 20.006 ug/l
RT: 5.283 min Scan# 566
Delta R.T. -0.000 min
Lab File: VN079449.D
Acq: 06 Oct 2023 15:54

Tgt Ion: 84 Resp: 44777
Ion Ratio Lower Upper
84 100
49 122.7 79.7 119.5#
51 33.3 25.2 37.8
86 56.4 53.3 79.9

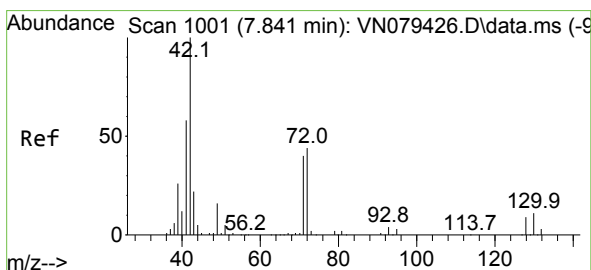
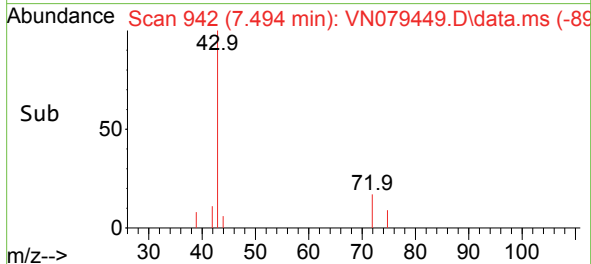
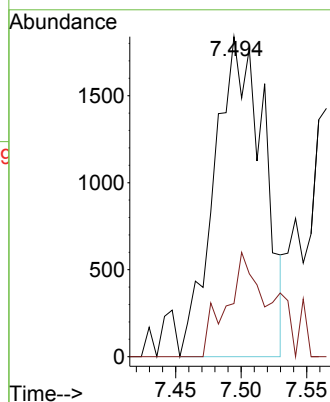
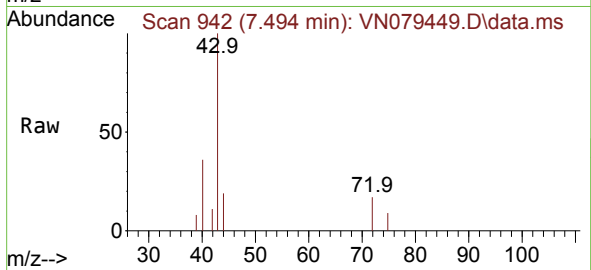




#25
2-Butanone
Concen: 3.227 ug/l
RT: 7.494 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN079449.D
Acq: 06 Oct 2023 15:54

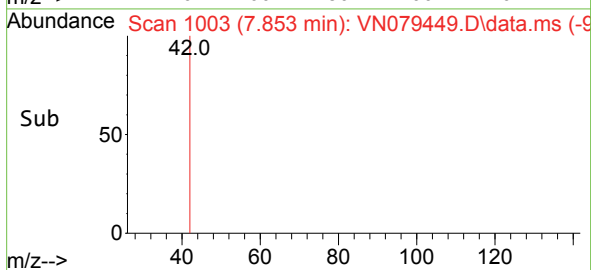
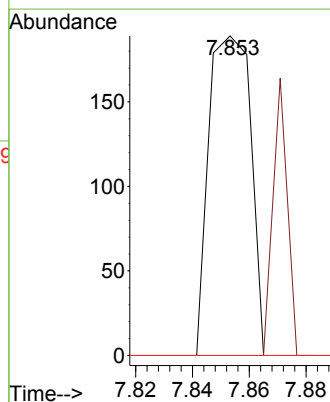
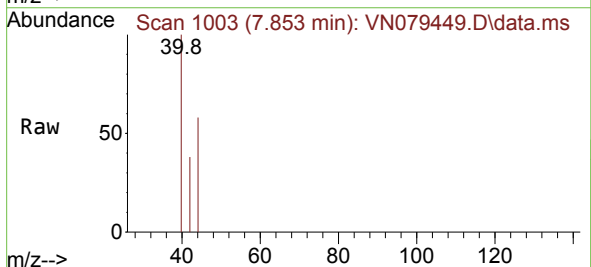
Instrument :
MSVOA_N
ClientSampleId :

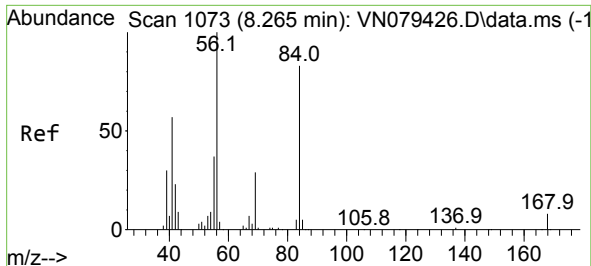
Tgt Ion: 43 Resp: 4809
Ion Ratio Lower Upper
43 100
72 16.6 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.200 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.012 min
Lab File: VN079449.D
Acq: 06 Oct 2023 15:54

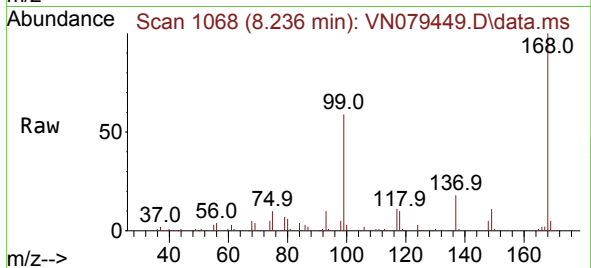
Tgt Ion: 42 Resp: 193
Ion Ratio Lower Upper
42 100
72 30.1 49.8 74.6#
71 0.0 47.4 71.2#



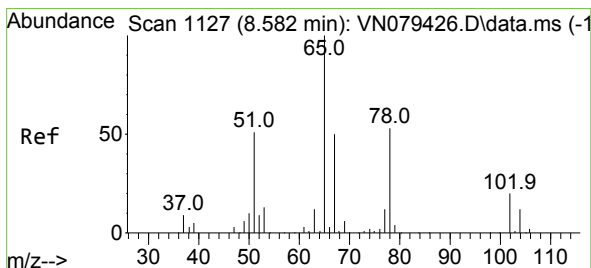
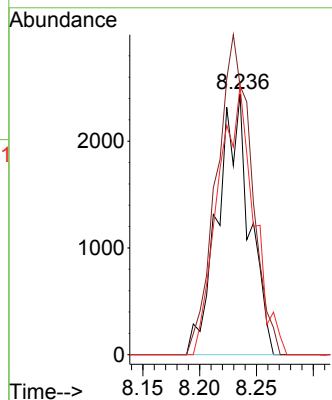
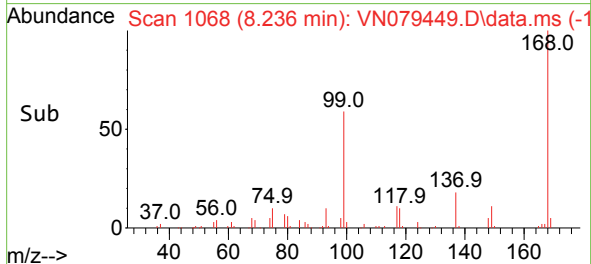


#31
Cyclohexane
Concen: 1.332 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN079449.D
Acq: 06 Oct 2023 15:54

Instrument :
MSVOA_N
ClientSampleId :

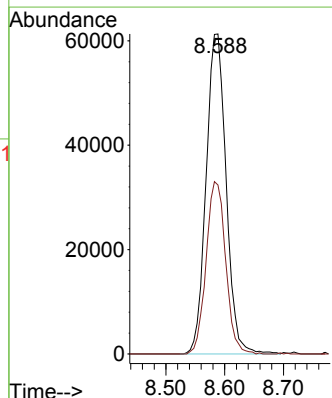
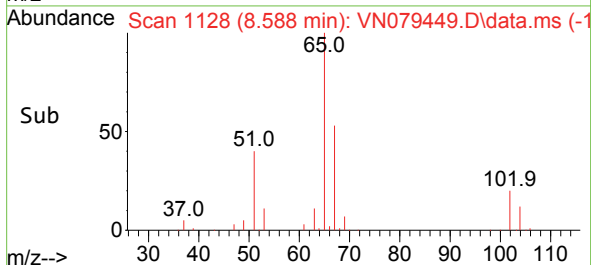
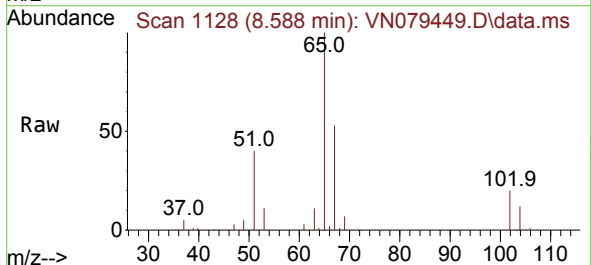


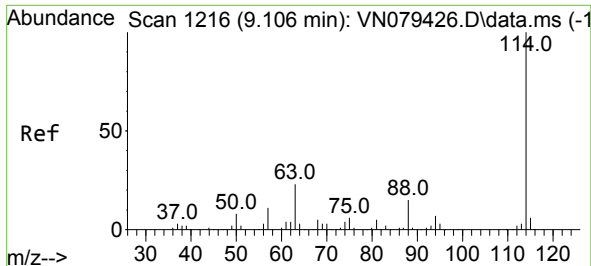
Tgt Ion: 56 Resp: 4783
Ion Ratio Lower Upper
56 100
69 103.2 26.8 40.2#
84 103.0 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 57.454 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN079449.D
Acq: 06 Oct 2023 15:54

Tgt Ion: 65 Resp: 145423
Ion Ratio Lower Upper
65 100
67 52.5 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN079449.D

Acq: 06 Oct 2023 15:54

Instrument :

MSVOA_N

ClientSampleId :

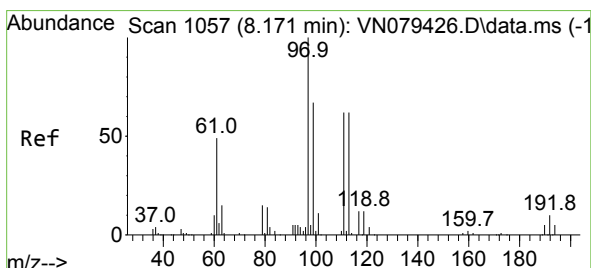
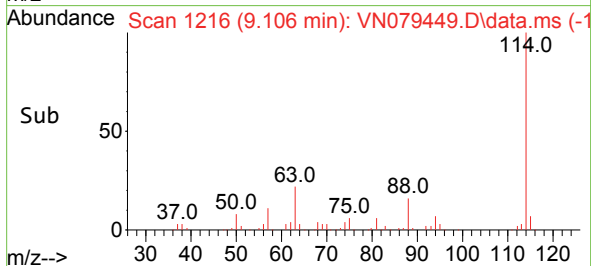
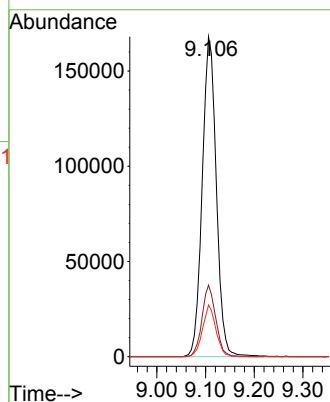
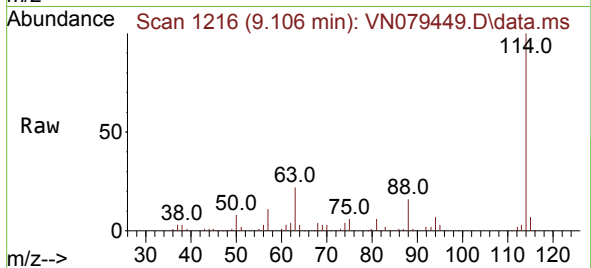
Tgt Ion:114 Resp: 337678

Ion Ratio Lower Upper

114 100

63 22.3 0.0 36.4

88 16.2 0.0 30.6



#35

Dibromofluoromethane

Concen: 49.116 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN079449.D

Acq: 06 Oct 2023 15:54

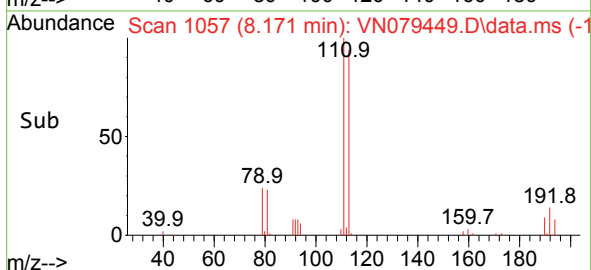
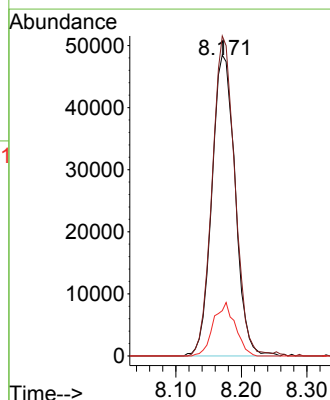
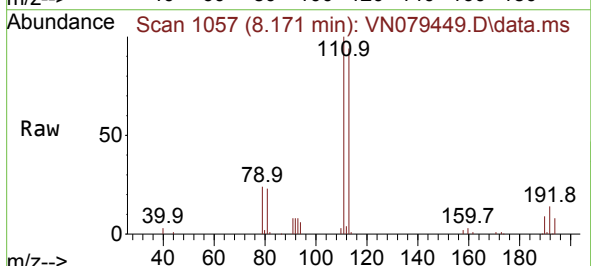
Tgt Ion:113 Resp: 119189

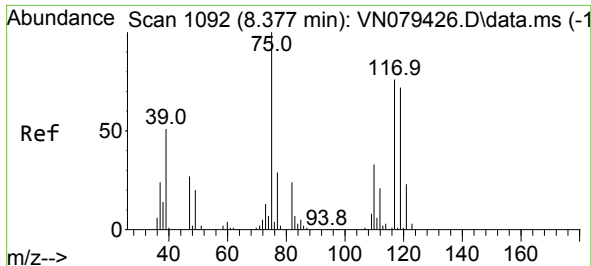
Ion Ratio Lower Upper

113 100

111 104.0 82.6 123.8

192 16.8 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.232 ug/l

RT: 8.230 min Scan# 1092

Delta R.T. -0.147 min

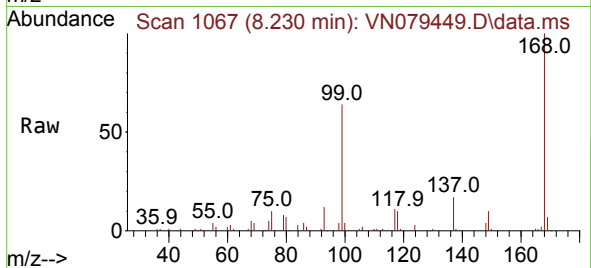
Lab File: VN079449.D

Acq: 06 Oct 2023 15:54

Instrument :

MSVOA_N

ClientSampleId :



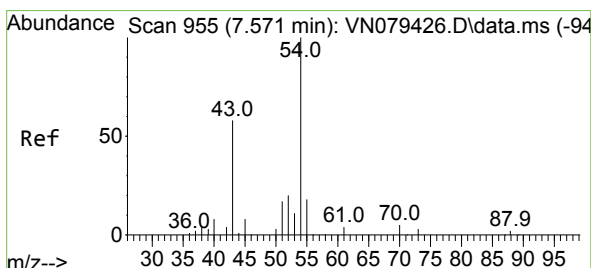
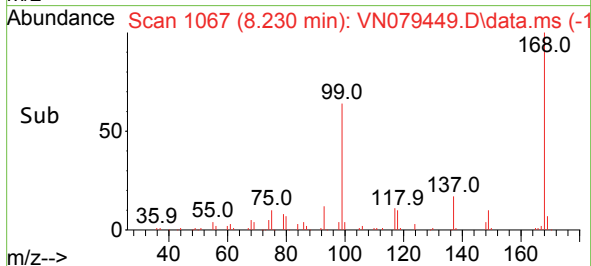
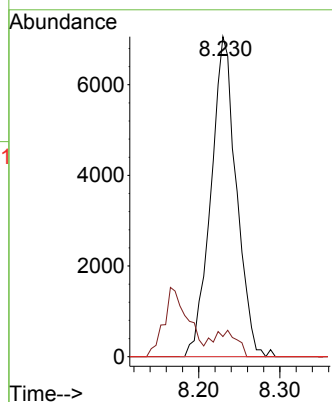
Tgt Ion: 75 Resp: 15413

Ion Ratio Lower Upper

75 100

110 7.8 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.205 ug/l

RT: 7.577 min Scan# 956

Delta R.T. 0.006 min

Lab File: VN079449.D

Acq: 06 Oct 2023 15:54

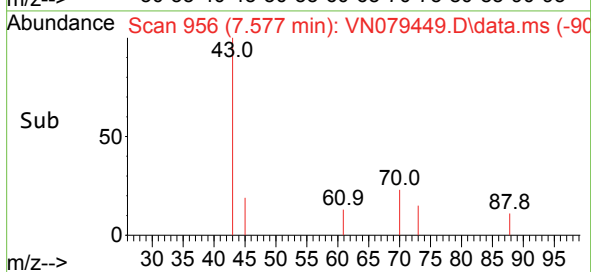
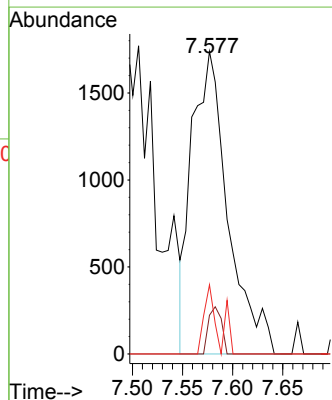
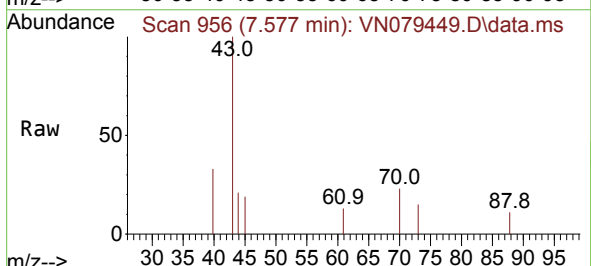
Tgt Ion: 43 Resp: 4368

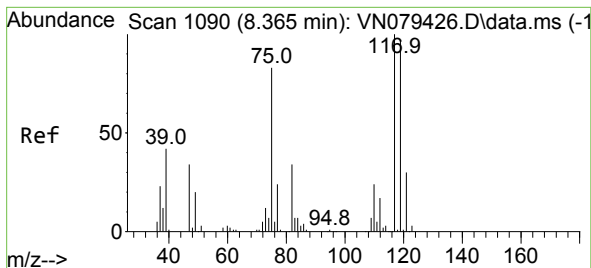
Ion Ratio Lower Upper

43 100

61 5.6 13.2 19.8#

70 6.4 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 4.884 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.135 min

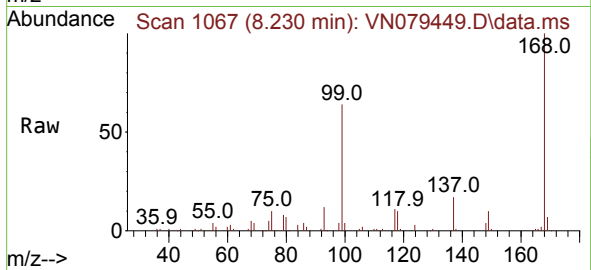
Lab File: VN079449.D

Acq: 06 Oct 2023 15:54

Instrument :

MSVOA_N

ClientSampleId :



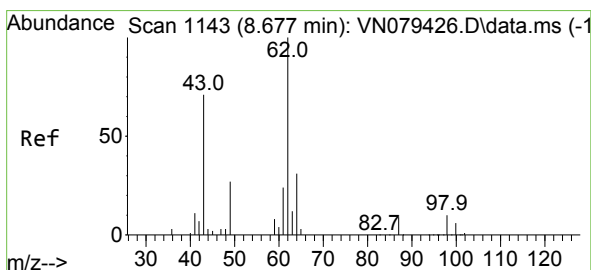
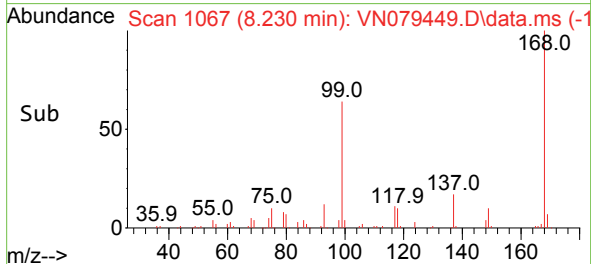
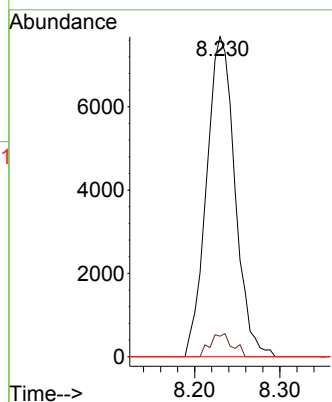
Tgt Ion:117 Resp: 17807

Ion Ratio Lower Upper

117 100

119 6.4 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.292 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.018 min

Lab File: VN079449.D

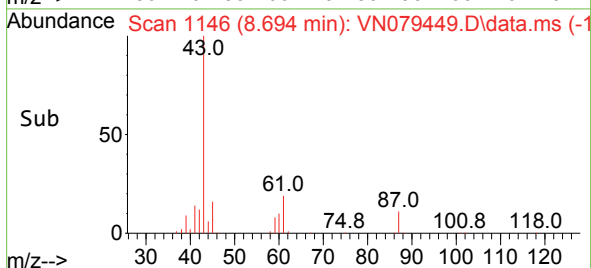
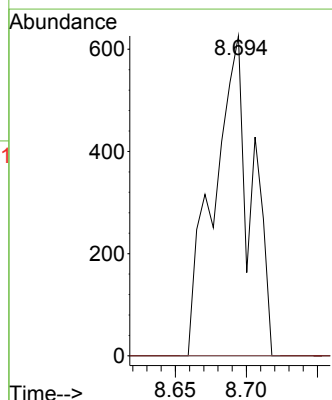
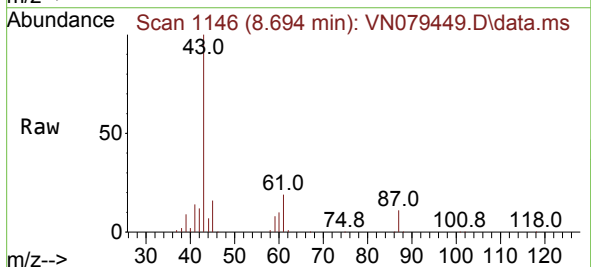
Acq: 06 Oct 2023 15:54

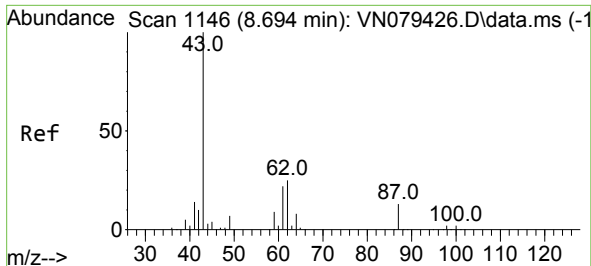
Tgt Ion: 62 Resp: 1148

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

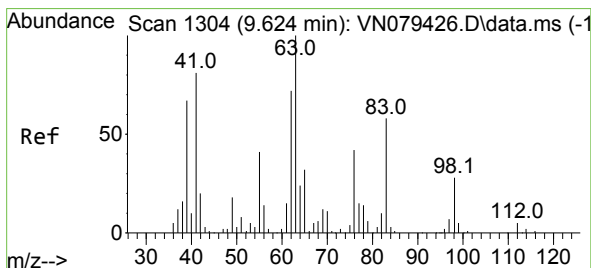
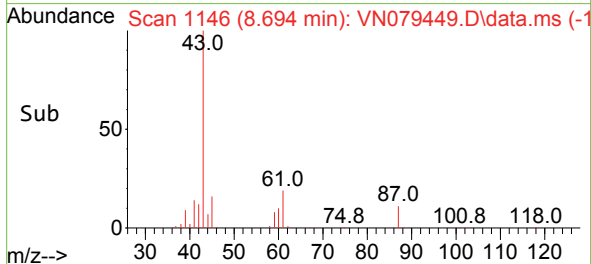
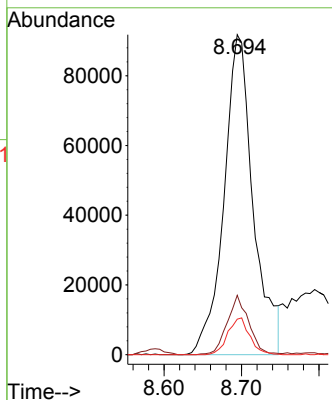
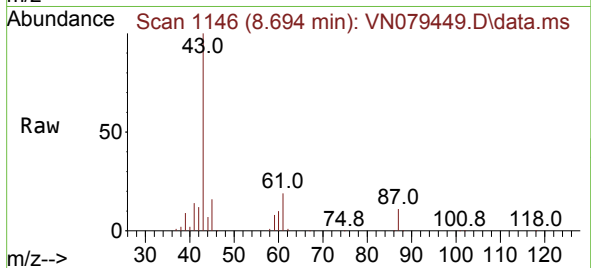




#43
Isopropyl Acetate
Concen: 38.054 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN079449.D
Acq: 06 Oct 2023 15:54

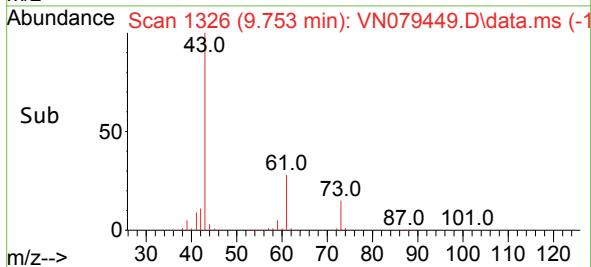
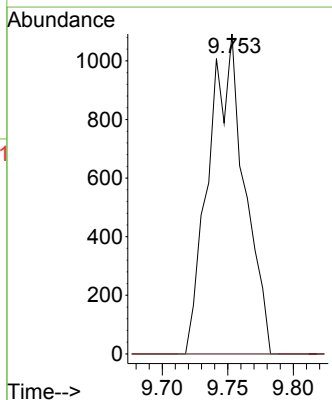
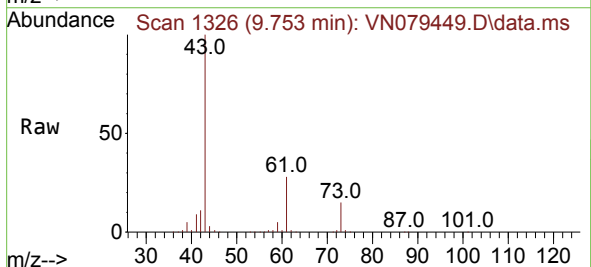
Instrument :
MSVOA_N
ClientSampleId :

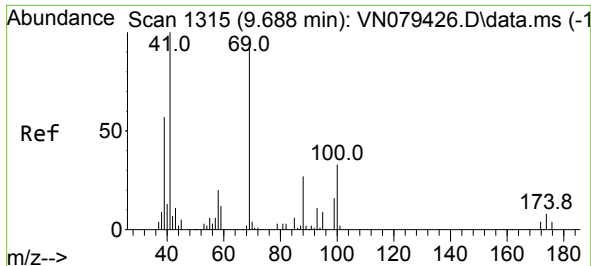
Tgt Ion: 43 Resp: 241609
Ion Ratio Lower Upper
43 100
61 13.8 24.7 37.1#
87 8.6 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.726 ug/l
RT: 9.753 min Scan# 1326
Delta R.T. 0.130 min
Lab File: VN079449.D
Acq: 06 Oct 2023 15:54

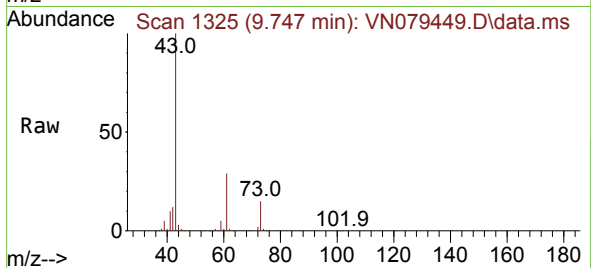
Tgt Ion: 63 Resp: 2070
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



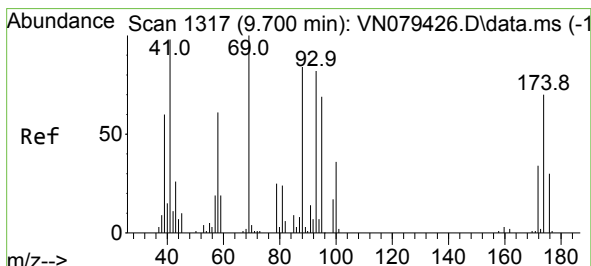
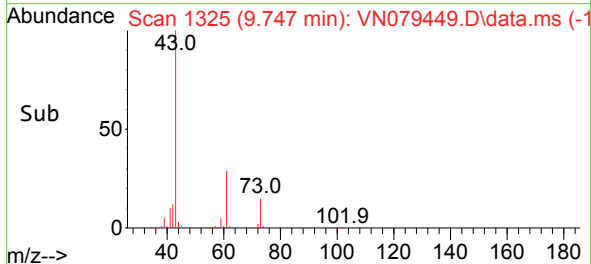
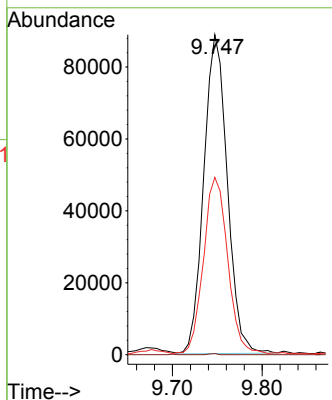


#48
Methyl methacrylate
Concen: 59.283 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN079449.D
Acq: 06 Oct 2023 15:54

Instrument :
MSVOA_N
ClientSampleId :

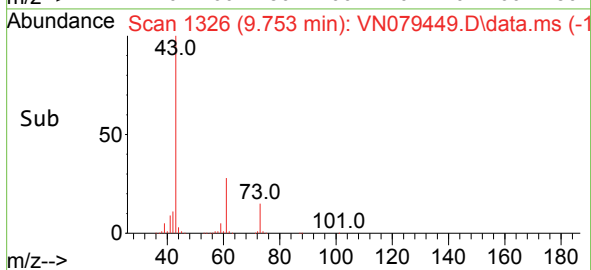
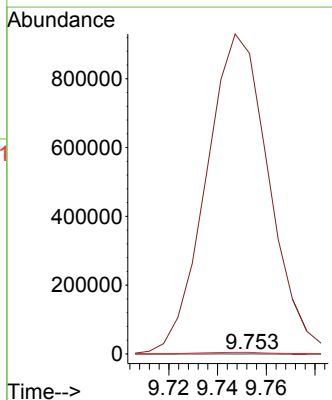
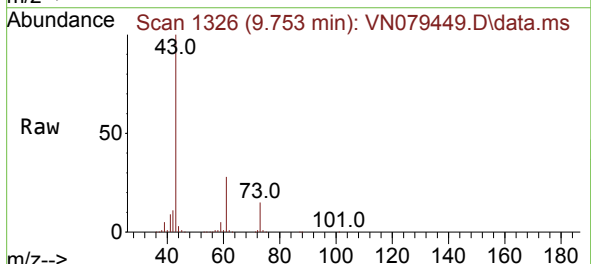


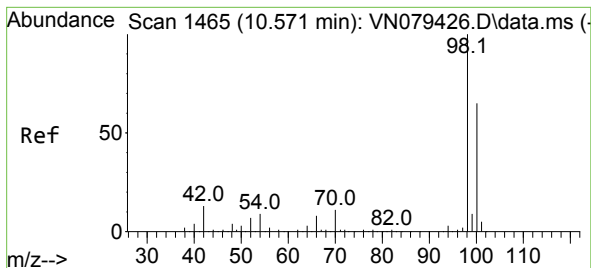
Tgt Ion: 41 Resp: 161291
Ion Ratio Lower Upper
41 100
69 0.1 90.4 135.6#
39 57.0 54.6 81.8



#49
1,4-Dioxane
Concen: 6.246 ug/l
RT: 9.753 min Scan# 1326
Delta R.T. 0.053 min
Lab File: VN079449.D
Acq: 06 Oct 2023 15:54

Tgt Ion: 88 Resp: 313
Ion Ratio Lower Upper
88 100
43 540303.8 17.0 25.6#
58 3028.1 47.0 70.4#

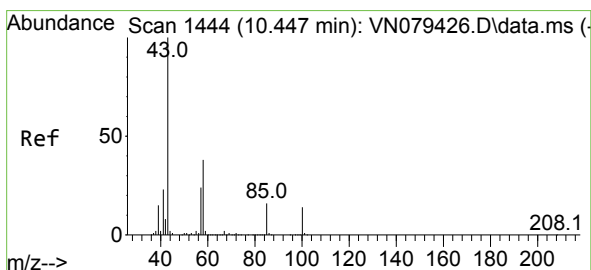
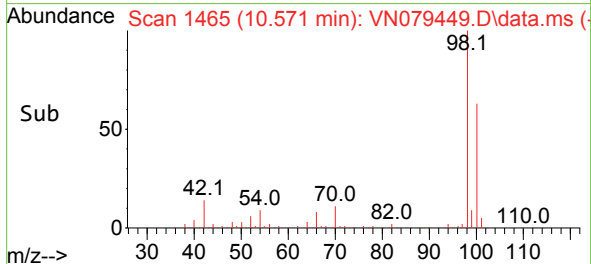
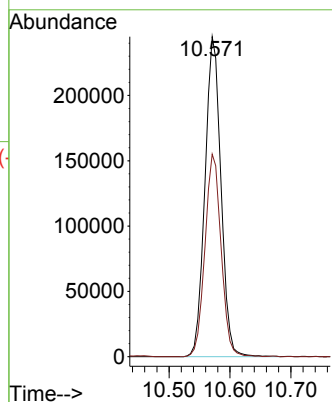
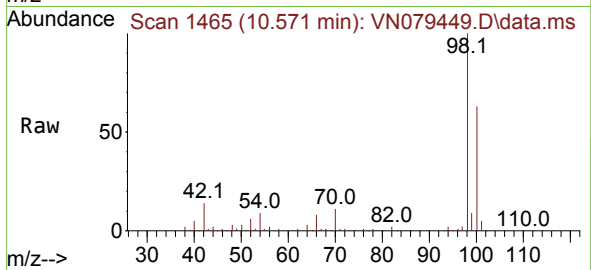




#50
Toluene-d8
Concen: 50.879 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079449.D
Acq: 06 Oct 2023 15:54

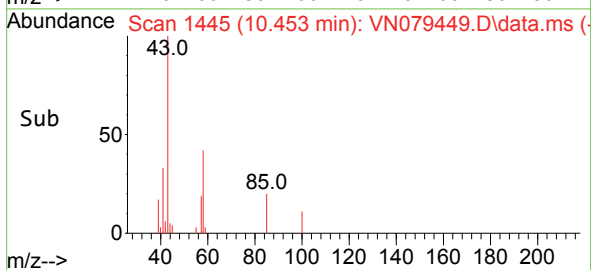
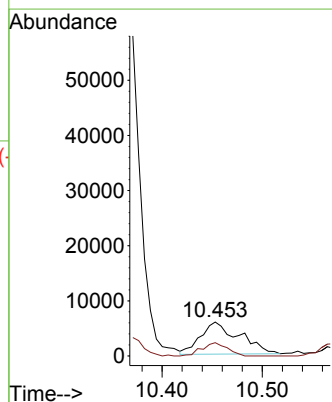
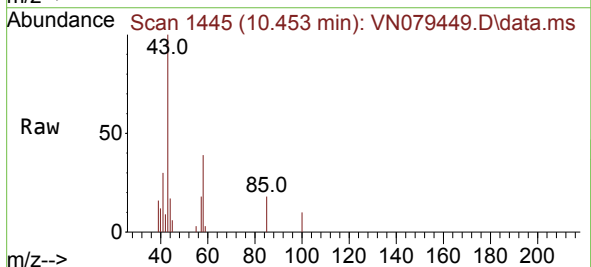
Instrument :
MSVOA_N
ClientSampleId :

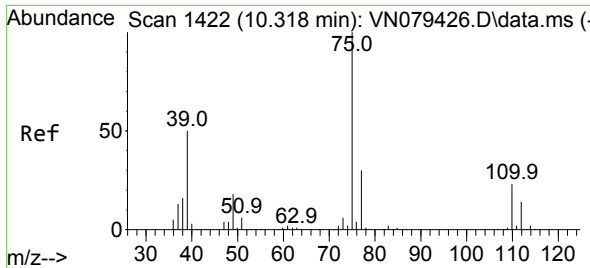
Tgt Ion: 98 Resp: 446739
Ion Ratio Lower Upper
98 100
100 64.0 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 4.384 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN079449.D
Acq: 06 Oct 2023 15:54

Tgt Ion: 43 Resp: 15712
Ion Ratio Lower Upper
43 100
58 27.0 36.6 54.8#

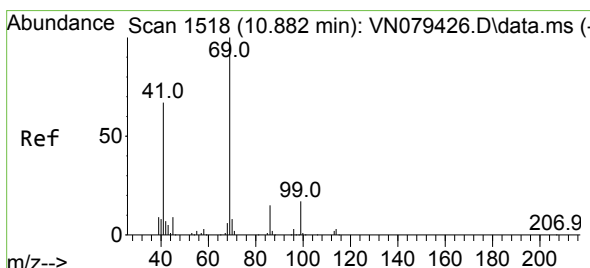
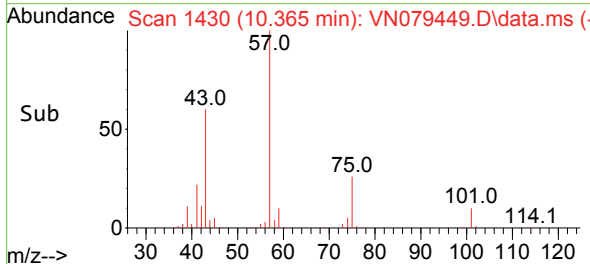
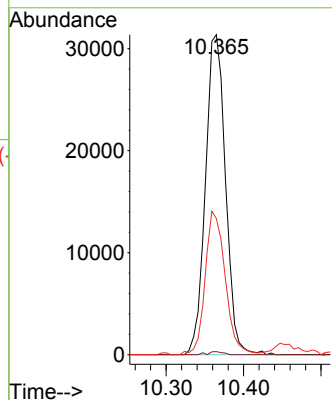
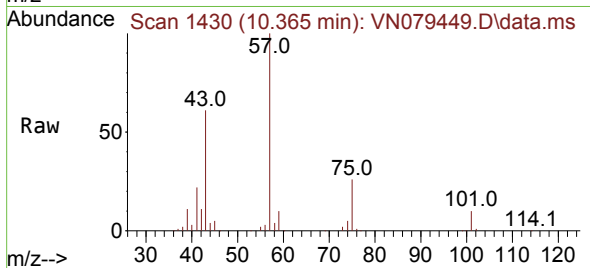




#54
 cis-1,3-Dichloropropene
 Concen: 13.489 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN079449.D
 Acq: 06 Oct 2023 15:54

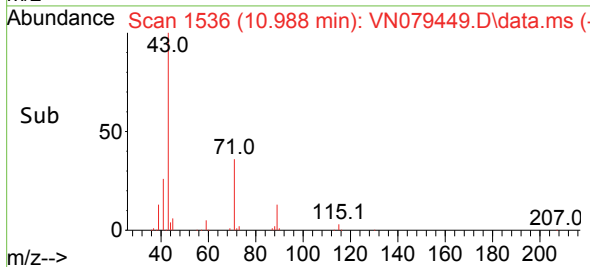
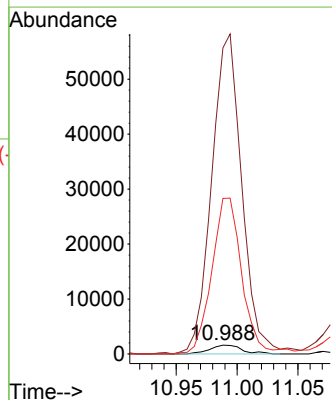
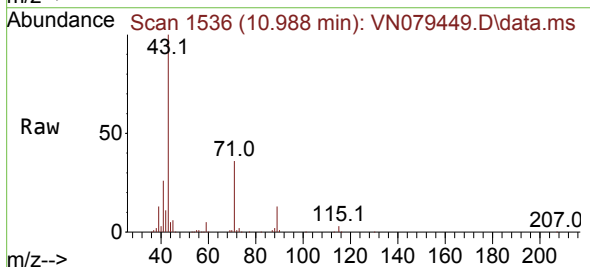
Instrument :
 MSVOA_N
 ClientSampleId :

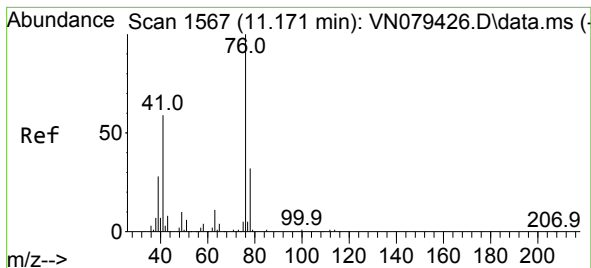
Tgt Ion: 75 Resp: 56500
 Ion Ratio Lower Upper
 75 100
 77 0.9 26.1 39.1#
 39 42.5 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.843 ug/l
 RT: 10.988 min Scan# 1536
 Delta R.T. 0.106 min
 Lab File: VN079449.D
 Acq: 06 Oct 2023 15:54

Tgt Ion: 69 Resp: 2962
 Ion Ratio Lower Upper
 69 100
 41 3403.4 39.6 59.4#
 39 1649.5 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.750 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.035 min

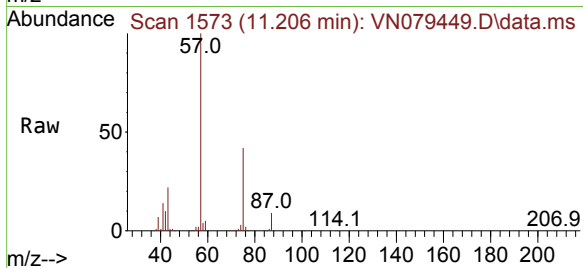
Lab File: VN079449.D

Acq: 06 Oct 2023 15:54

Instrument :

MSVOA_N

ClientSampleId :

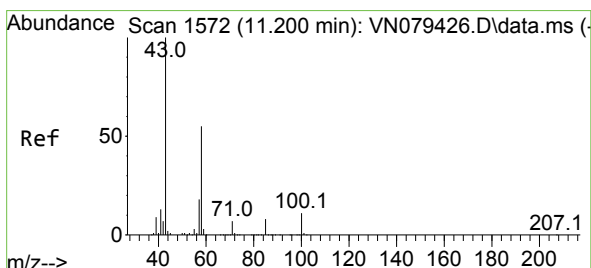
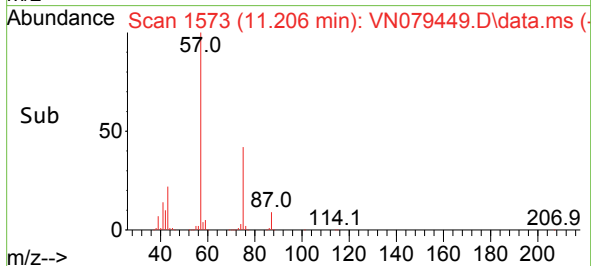
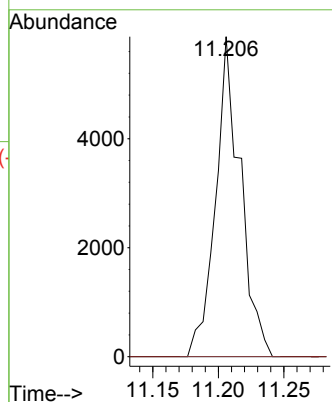


Tgt Ion: 76 Resp: 7726

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 39.960 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.006 min

Lab File: VN079449.D

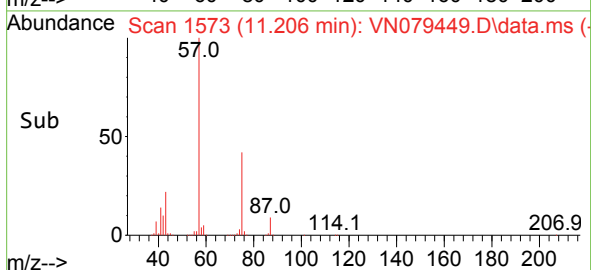
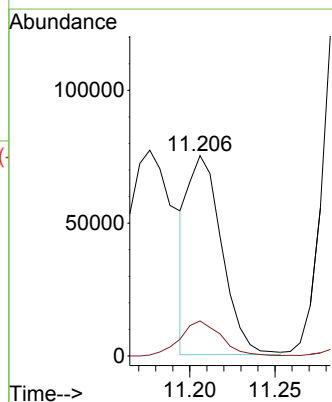
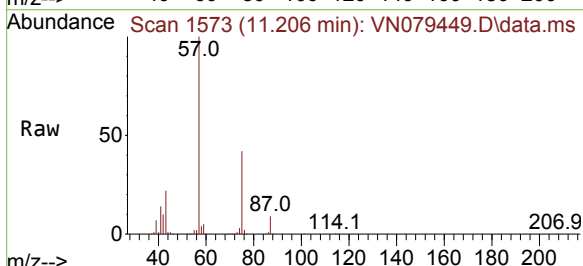
Acq: 06 Oct 2023 15:54

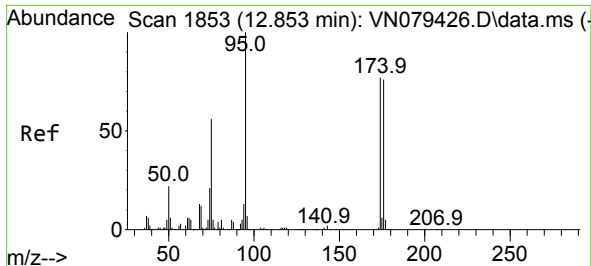
Tgt Ion: 43 Resp: 103349

Ion Ratio Lower Upper

43 100

58 21.4 31.7 95.1#

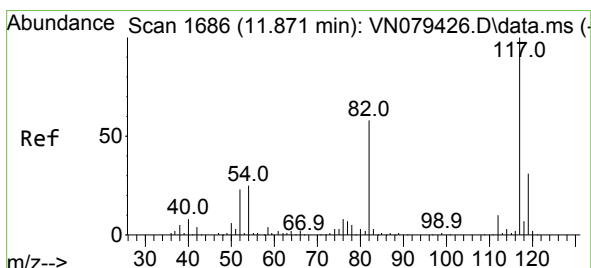
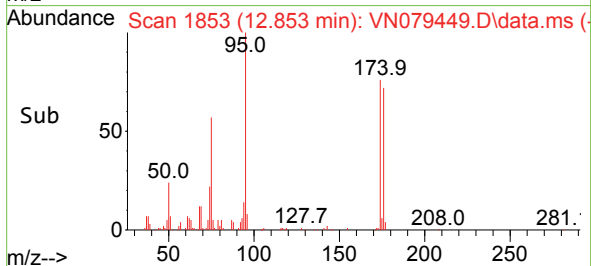
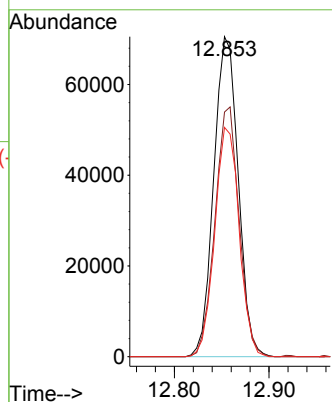
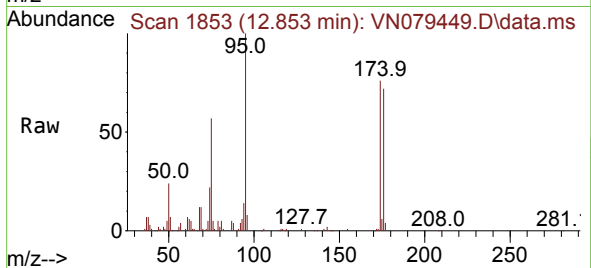




#62
4-Bromofluorobenzene
Concen: 44.820 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079449.D
Acq: 06 Oct 2023 15:54

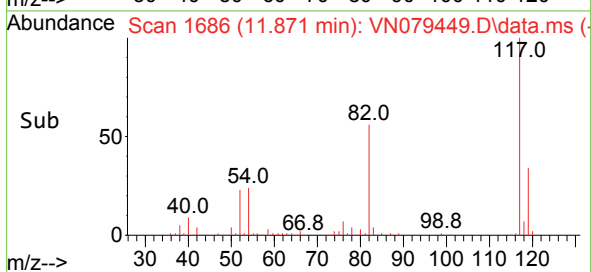
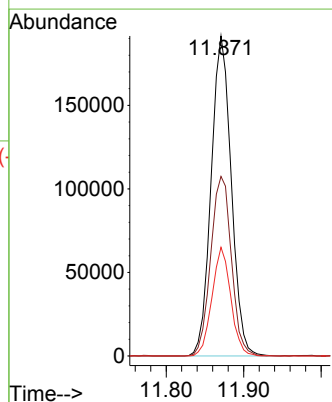
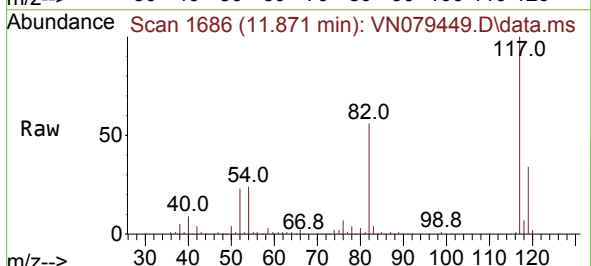
Instrument :
MSVOA_N
ClientSampleId :

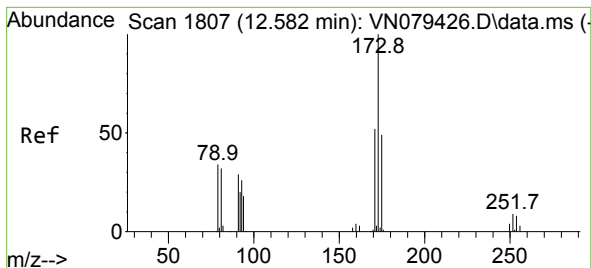
Tgt Ion: 95 Resp: 126295
Ion Ratio Lower Upper
95 100
174 77.4 0.0 143.8
176 71.7 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN079449.D
Acq: 06 Oct 2023 15:54

Tgt Ion: 117 Resp: 345849
Ion Ratio Lower Upper
117 100
82 56.1 44.0 66.0
119 34.0 25.6 38.4





#71

Bromoform

Concen: 0.540 ug/l

RT: 12.853 min Scan# 1115

Delta R.T. 0.271 min

Lab File: VN079449.D

Acq: 06 Oct 2023 15:54

Instrument :

MSVOA_N

ClientSampleId :

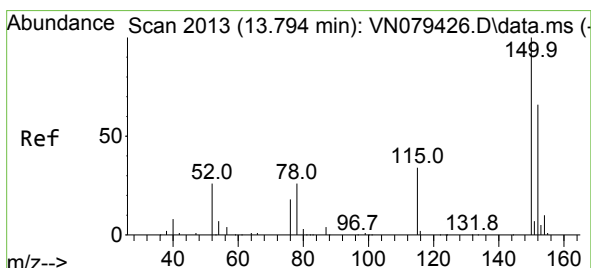
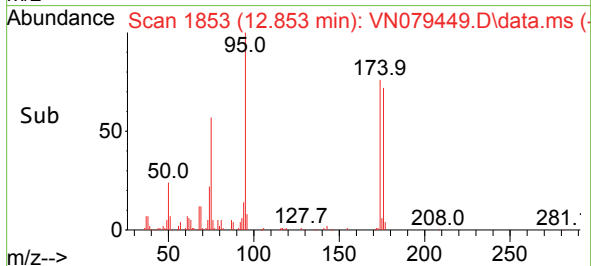
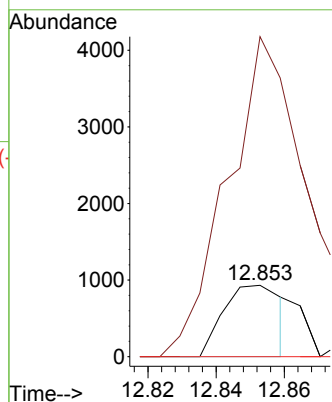
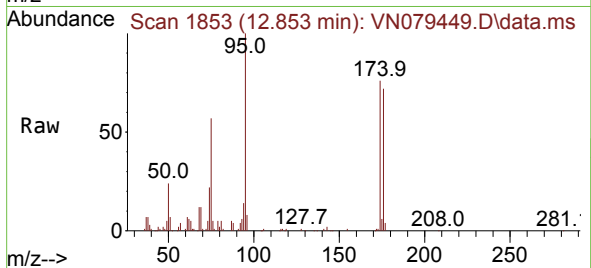
Tgt Ion:173 Resp: 1115

Ion Ratio Lower Upper

173 100

175 431.2 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# 2014

Delta R.T. 0.006 min

Lab File: VN079449.D

Acq: 06 Oct 2023 15:54

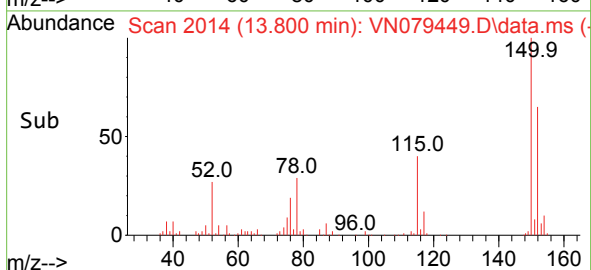
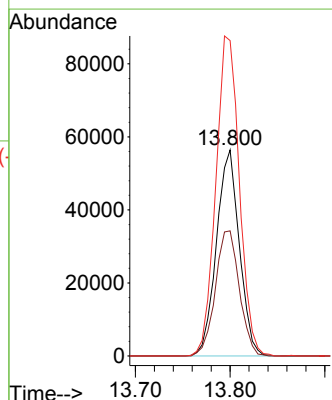
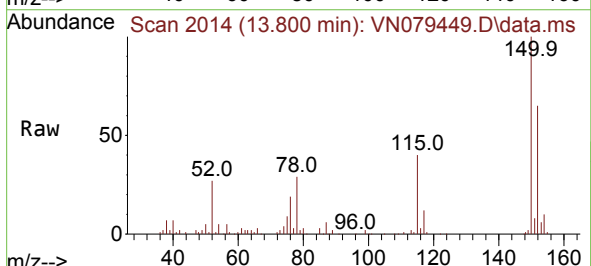
Tgt Ion:152 Resp: 94672

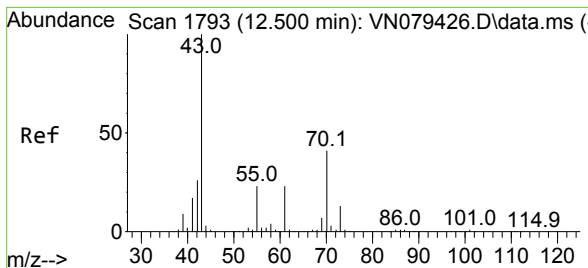
Ion Ratio Lower Upper

152 100

115 63.7 32.3 96.8

150 159.5 0.0 355.8





#74

N-amy1 acetate

Concen: 0.443 ug/l

RT: 12.494 min Scan# 1

Delta R.T. -0.006 min

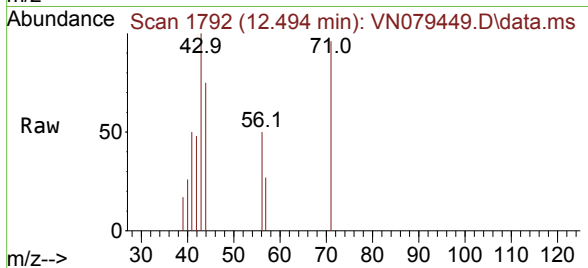
Lab File: VN079449.D

Acq: 06 Oct 2023 15:54

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 1601

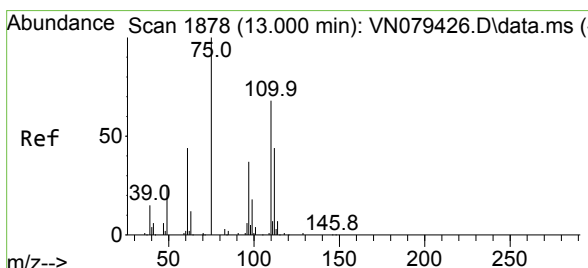
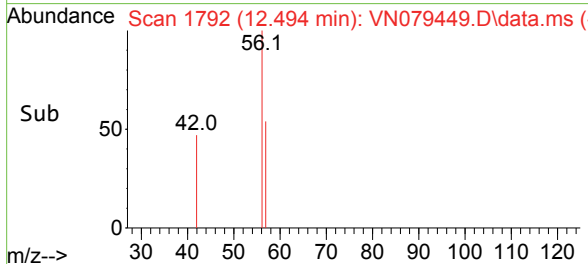
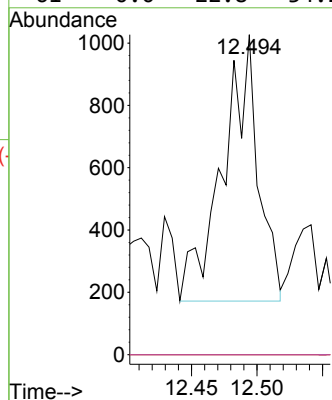
Ion Ratio Lower Upper

43 100

70 0.0 43.4 65.2#

55 0.0 21.4 32.0#

61 0.0 22.8 34.2#



#76

1,2,3-Trichloropropane

Concen: 26.437 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. -0.141 min

Lab File: VN079449.D

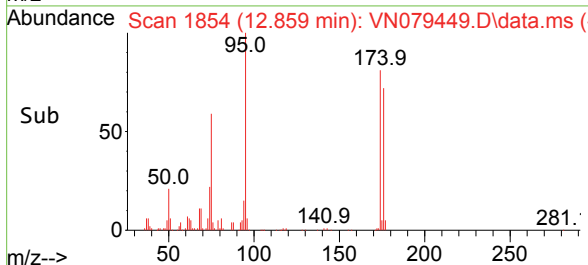
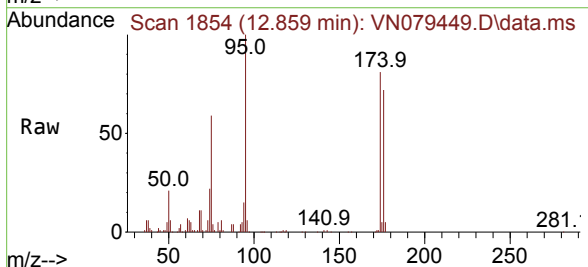
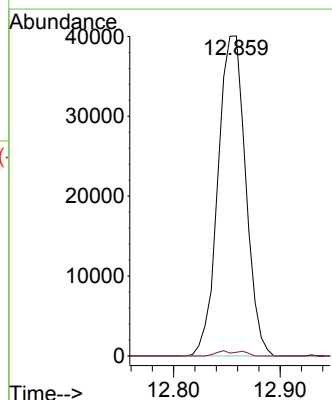
Acq: 06 Oct 2023 15:54

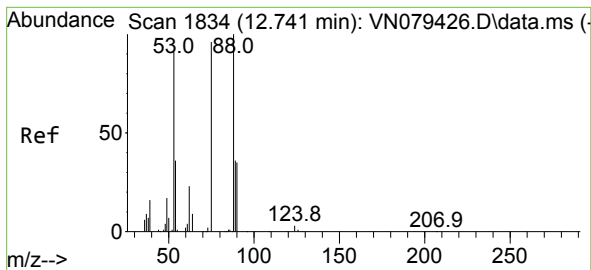
Tgt Ion: 75 Resp: 72164

Ion Ratio Lower Upper

75 100

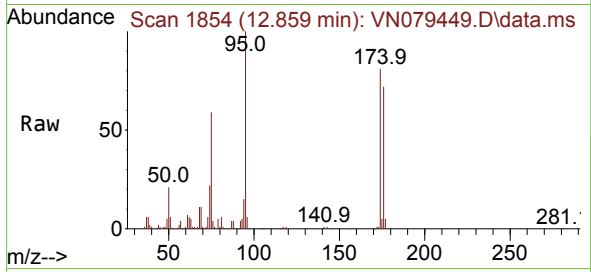
77 1.5 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 76.708 ug/l
 RT: 12.859 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN079449.D
 Acq: 06 Oct 2023 15:54

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 72164
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

