

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101123\
 Data File : VN079532.D
 Acq On : 11 Oct 2023 21:12
 Operator : JC\MD
 Sample : 04823-05DL 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 12 06:16:12 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

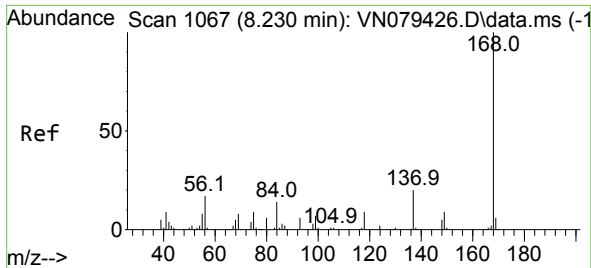
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	325373	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	615240	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	623758	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	223004	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	258877	49.070	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.140%
35) Dibromofluoromethane	8.171	113	222302	50.279	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.560%
50) Toluene-d8	10.571	98	733360	45.842	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	91.680%
62) 4-Bromofluorobenzene	12.853	95	275916	53.743	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	107.480%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.518	59	3048	3.839	ug/l #	77
13) Acrolein	4.201	56	49891	63.103	ug/l #	16
16) Acetone	4.430	43	425645	203.414	ug/l #	42
18) Methyl Acetate	5.030	43	5345	0.522	ug/l	97
20) Methylene Chloride	5.277	84	2129	Below Cal	#	74
22) Diisopropyl ether	6.730	45	127789	9.186	ug/l #	1
23) Vinyl Acetate	6.730	43	317338	40.554	ug/l #	62
25) 2-Butanone	7.500	43	11212	3.610	ug/l #	80
31) Cyclohexane	8.224	56	9256	1.237	ug/l #	47
36) 1,1-Dichloropropene	8.230	75	28568	4.305	ug/l #	48
38) Carbon Tetrachloride	8.230	117	33935	5.108	ug/l #	16
40) Benzene	8.612	78	114025	5.786	ug/l	94
43) Isopropyl Acetate	8.730	43	13294	1.149	ug/l #	49
48) Methyl methacrylate	9.653	41	2969	0.599	ug/l #	3
52) Toluene	10.635	92	113631	9.795	ug/l	95
59) 2-Hexanone	11.200	43	3680	0.781	ug/l	60
67) Ethyl Benzene	11.965	91	32268	1.336	ug/l #	83
68) m/p-Xylenes	12.071	106	41233	4.700	ug/l	92
69) o-Xylene	12.400	106	18621	2.158	ug/l	95
70) Styrene	12.418	104	10612	0.779	ug/l #	86
71) Bromoform	12.853	173	2611	0.701	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.800	83	35094	4.126	ug/l #	33
76) 1,2,3-Trichloropropane	12.853	75	154347	24.005	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.171	105	6152	0.376	ug/l	93
81) trans-1,4-Dichloro-2-b...	12.853	75	154347	69.651	ug/l #	15
83) tert-Butylbenzene	13.488	119	2842	0.212	ug/l #	67
84) 1,2,4-Trimethylbenzene	13.482	105	18374	1.177	ug/l	96
85) sec-Butylbenzene	13.482	105	18374	0.983	ug/l #	57
90) Hexachloroethane	14.323	117	66	Below Cal	#	21
95) Naphthalene	15.647	128	163348	21.946	ug/l	98

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

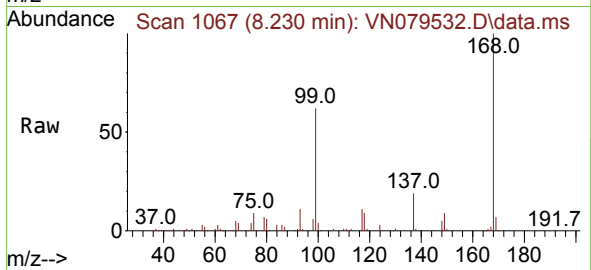
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N100523W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 06 03:34:49 2023
Response via : Initial Calibration



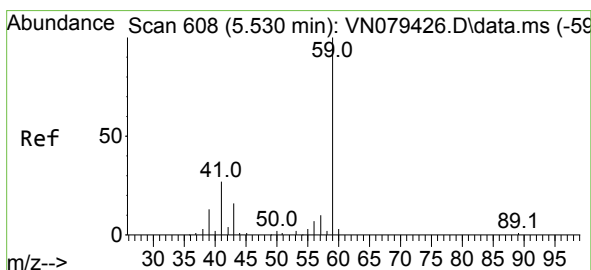
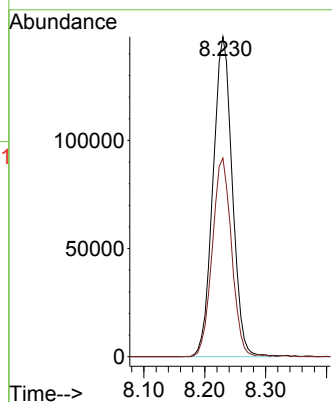
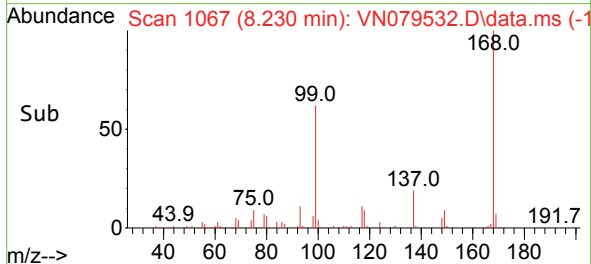


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN079532.D
Acq: 11 Oct 2023 21:12

Instrument :
MSVOA_N
ClientSampleId :

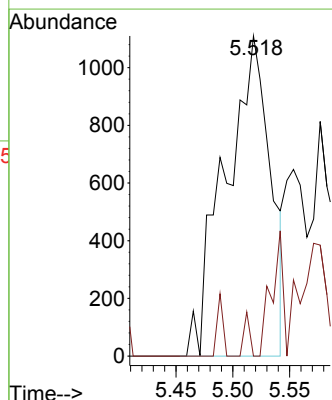
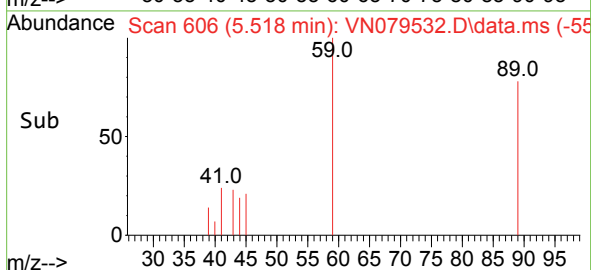
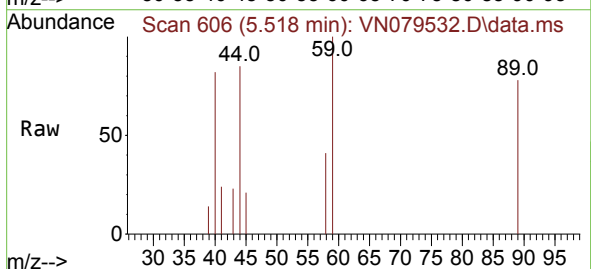


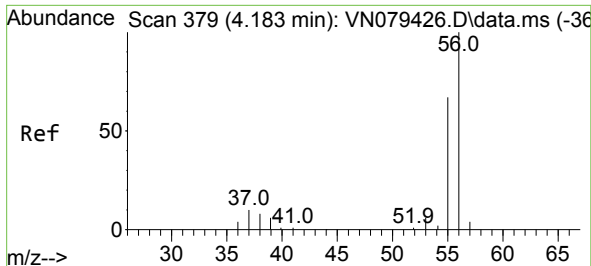
Tgt Ion:168 Resp: 325373
Ion Ratio Lower Upper
168 100
99 62.0 53.0 79.6



#11
Tert butyl alcohol
Concen: 3.839 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.012 min
Lab File: VN079532.D
Acq: 11 Oct 2023 21:12

Tgt Ion: 59 Resp: 3048
Ion Ratio Lower Upper
59 100
57 1.8 8.2 12.4#

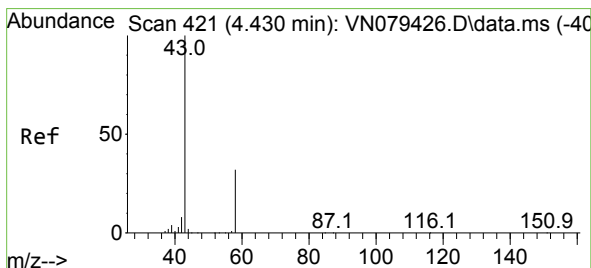
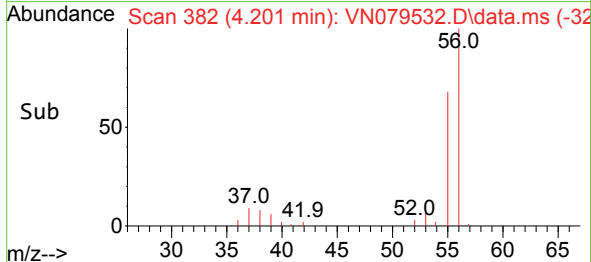
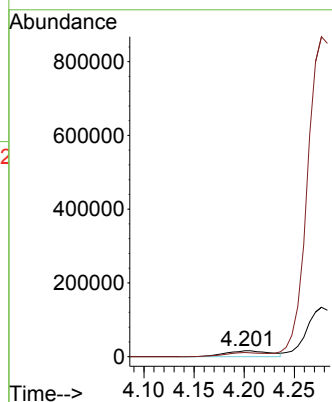
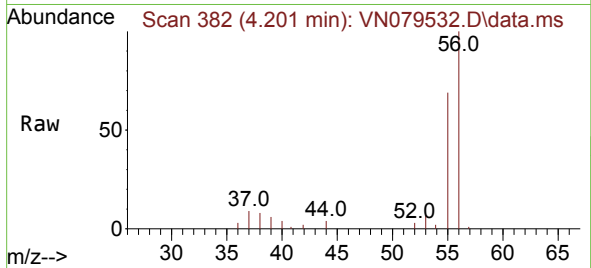




#13
Acrolein
Concen: 63.103 ug/l
RT: 4.201 min Scan# 382
Delta R.T. 0.018 min
Lab File: VN079532.D
Acq: 11 Oct 2023 21:12

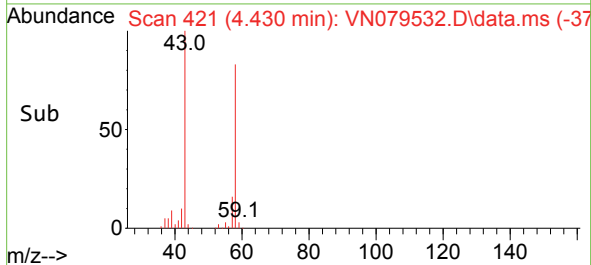
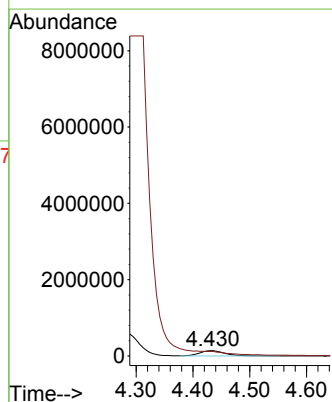
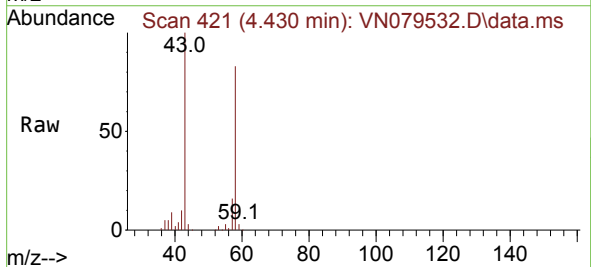
Instrument :
MSVOA_N
ClientSampleId :

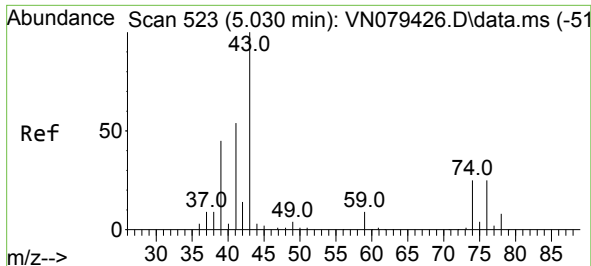
Tgt Ion: 56 Resp: 49891
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#16
Acetone
Concen: 203.414 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN079532.D
Acq: 11 Oct 2023 21:12

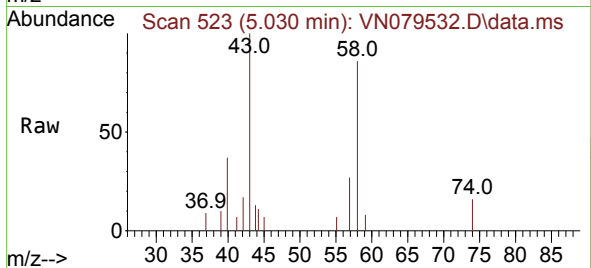
Tgt Ion: 43 Resp: 425645
Ion Ratio Lower Upper
43 100
58 69.0 28.0 42.0#



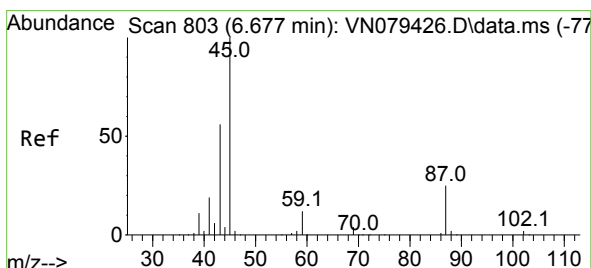
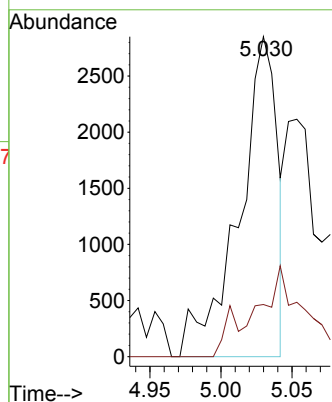
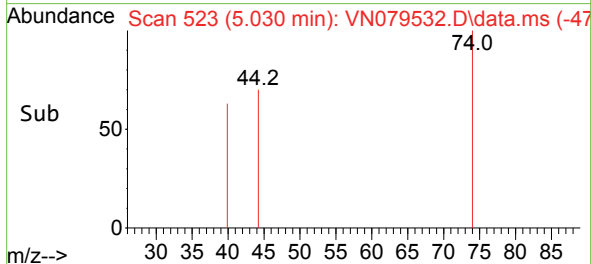


#18
Methyl Acetate
Concen: 0.522 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN079532.D
Acq: 11 Oct 2023 21:12

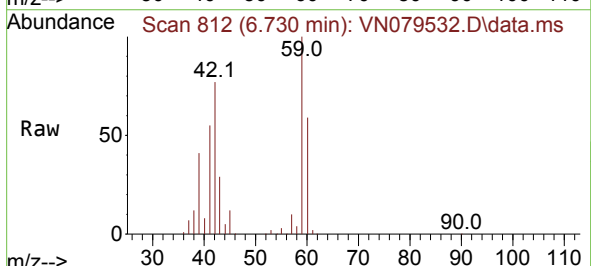
Instrument :
MSVOA_N
ClientSampleId :



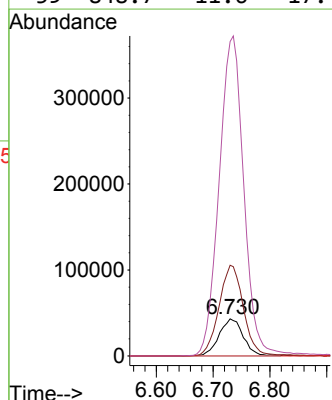
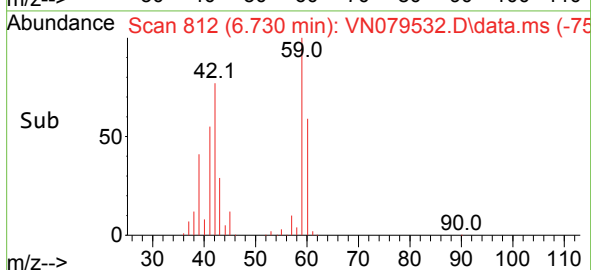
Tgt Ion: 43 Resp: 5345
Ion Ratio Lower Upper
43 100
74 31.3 26.2 39.4

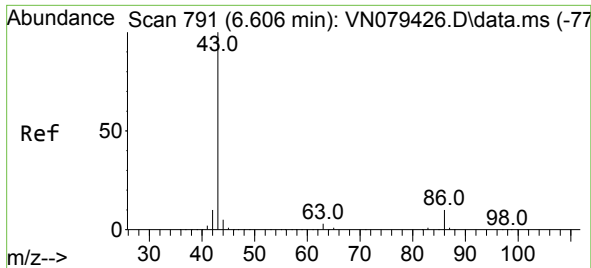


#22
Diisopropyl ether
Concen: 9.186 ug/l
RT: 6.730 min Scan# 812
Delta R.T. 0.053 min
Lab File: VN079532.D
Acq: 11 Oct 2023 21:12



Tgt Ion: 45 Resp: 127789
Ion Ratio Lower Upper
45 100
43 244.8 45.5 68.3#
87 0.0 31.8 47.8#
59 848.7 11.6 17.4#

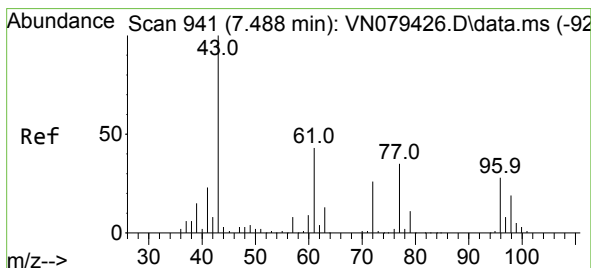
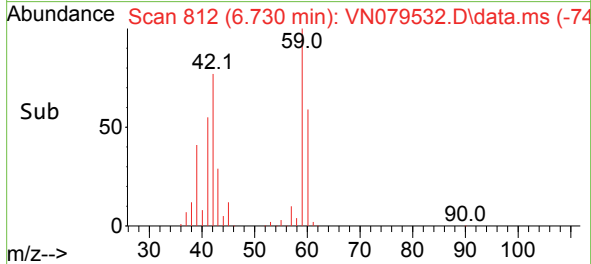
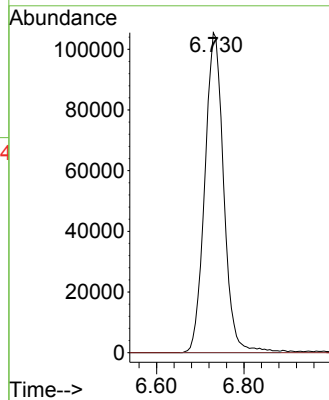
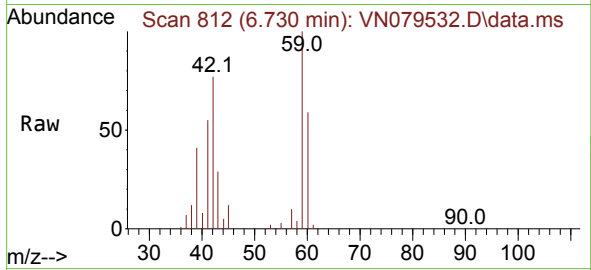




#23
 Vinyl Acetate
 Concen: 40.554 ug/l
 RT: 6.730 min Scan# 81
 Delta R.T. 0.124 min
 Lab File: VN079532.D
 Acq: 11 Oct 2023 21:12

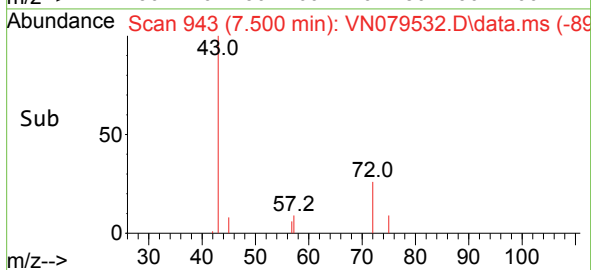
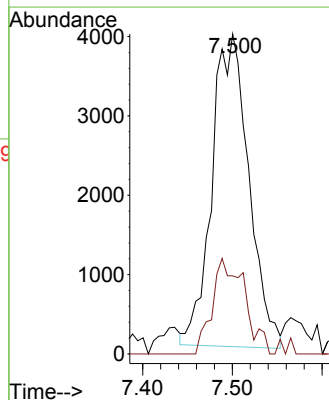
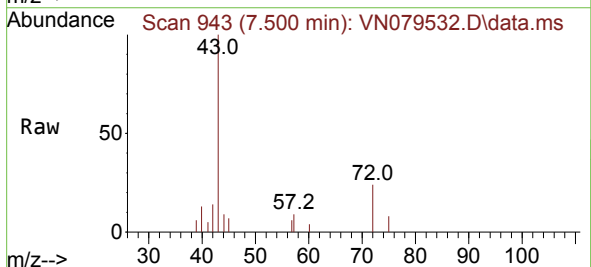
Instrument :
 MSVOA_N
 ClientSampleId :

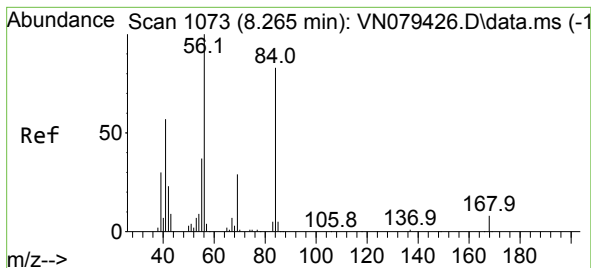
Tgt Ion: 43 Resp: 317338
 Ion Ratio Lower Upper
 43 100
 86 0.0 13.0 19.6#



#25
 2-Butanone
 Concen: 3.610 ug/l
 RT: 7.500 min Scan# 943
 Delta R.T. 0.012 min
 Lab File: VN079532.D
 Acq: 11 Oct 2023 21:12

Tgt Ion: 43 Resp: 11212
 Ion Ratio Lower Upper
 43 100
 72 25.9 30.2 45.2#





#31

Cyclohexane

Concen: 1.237 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.041 min

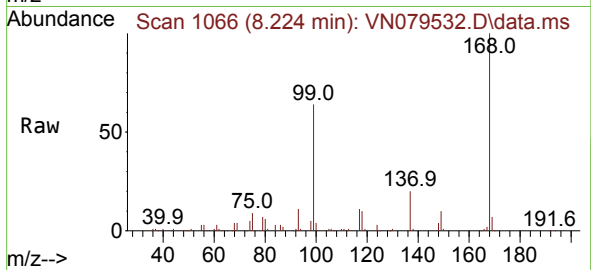
Lab File: VN079532.D

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Instrument :

MSVOA_N

ClientSampleId :



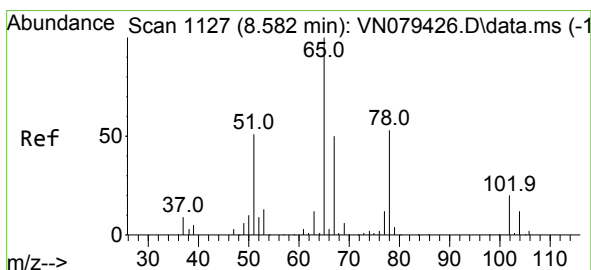
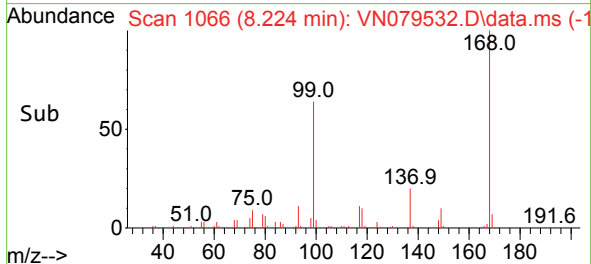
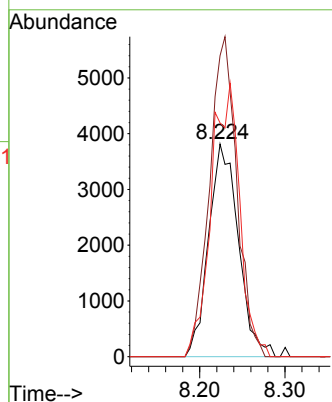
Tgt Ion: 56 Resp: 9256

Ion Ratio Lower Upper

56 100

69 141.6 26.8 40.2#

84 110.0 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 49.070 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079532.D

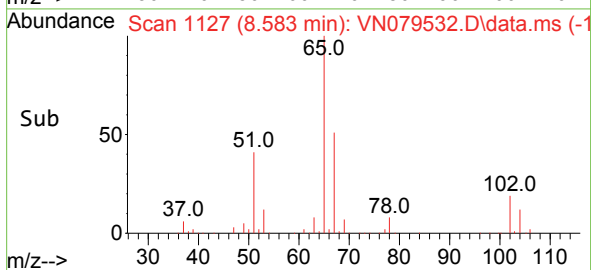
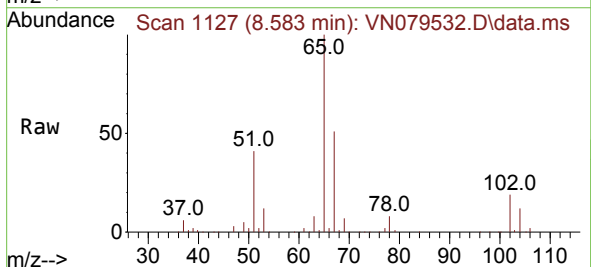
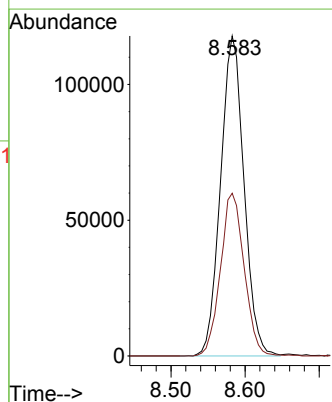
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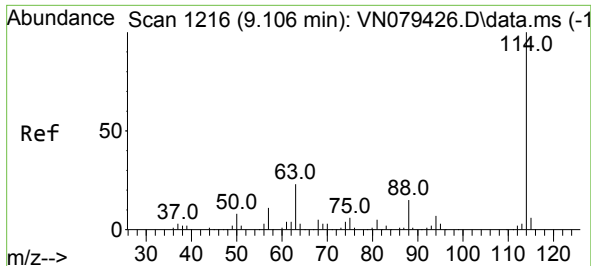
Tgt Ion: 65 Resp: 258877

Ion Ratio Lower Upper

65 100

67 51.5 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN079532.D

Acq: 11 Oct 2023 21:12

Instrument :

MSVOA_N

ClientSampleId :

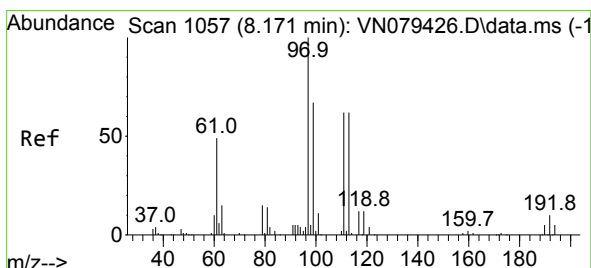
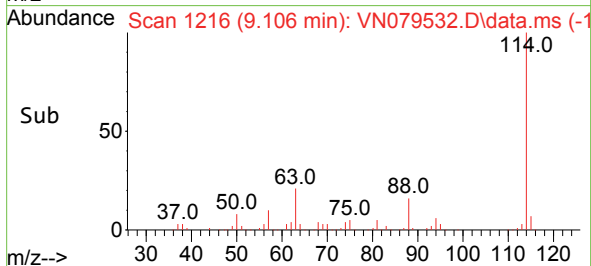
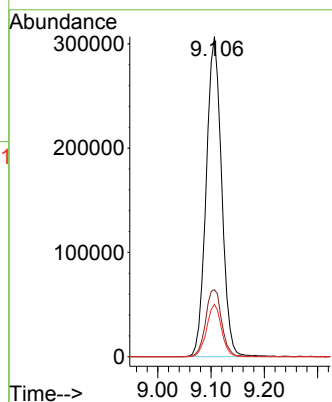
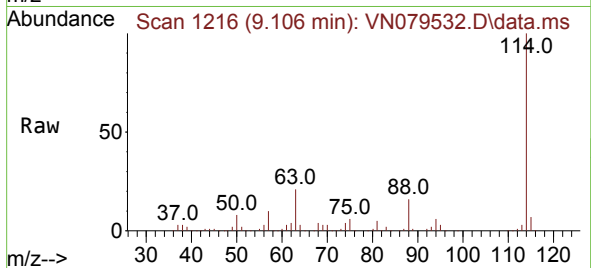
Tgt Ion:114 Resp: 615240

Ion Ratio Lower Upper

114 100

63 20.9 0.0 36.4

88 16.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 50.279 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN079532.D

Acq: 11 Oct 2023 21:12

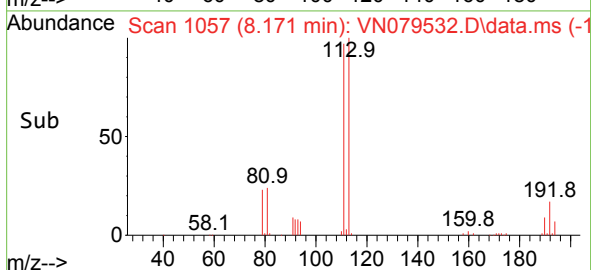
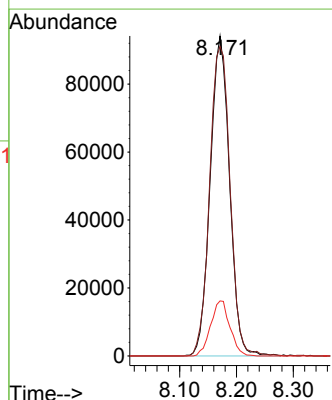
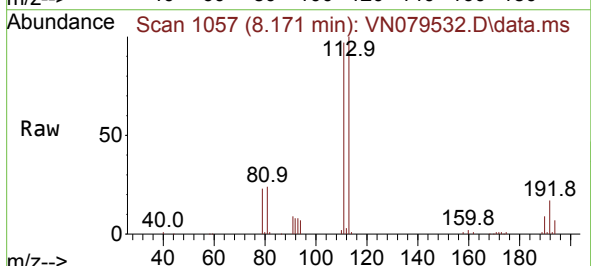
Tgt Ion:113 Resp: 222302

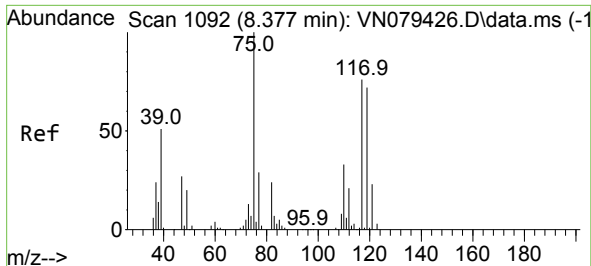
Ion Ratio Lower Upper

113 100

111 102.2 82.6 123.8

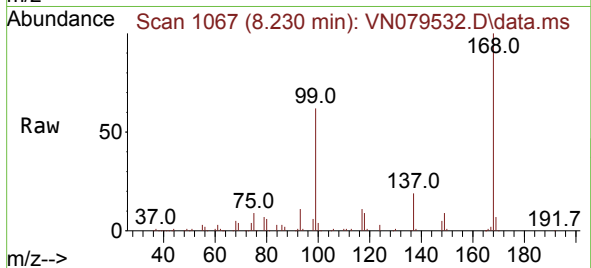
192 17.1 12.7 19.1



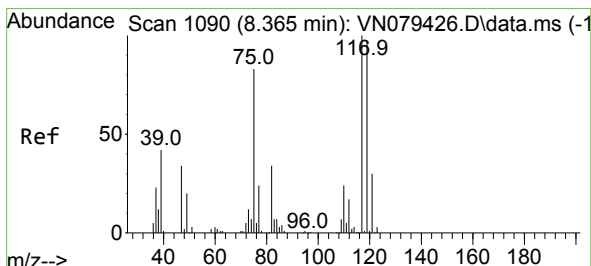
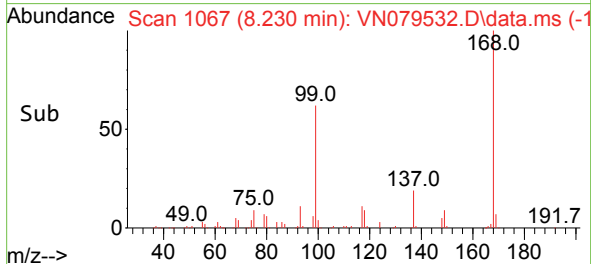
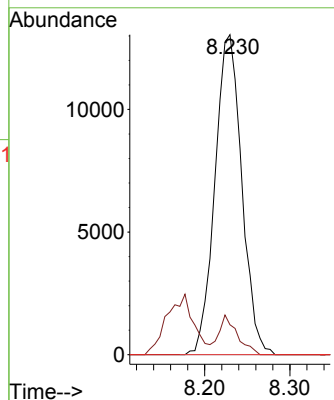


#36
 1,1-Dichloropropene
 Concen: 4.305 ug/l
 RT: 8.230 min Scan# 1067
 Delta R.T. -0.147 min
 Lab File: VN079532.D
 Acq: 11 Oct 2023 21:12

Instrument :
 MSVOA_N
 ClientSampleId :

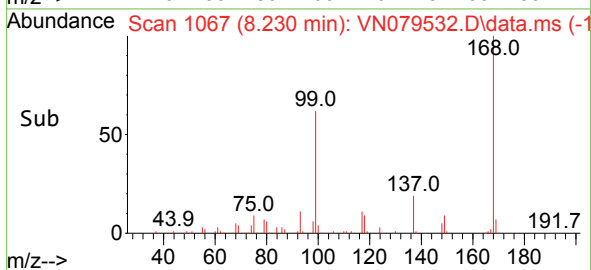
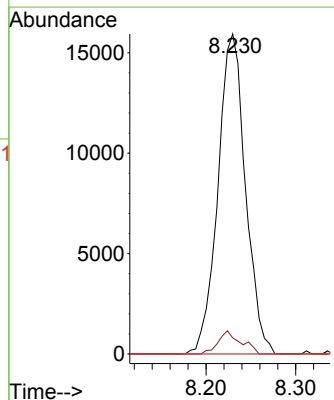
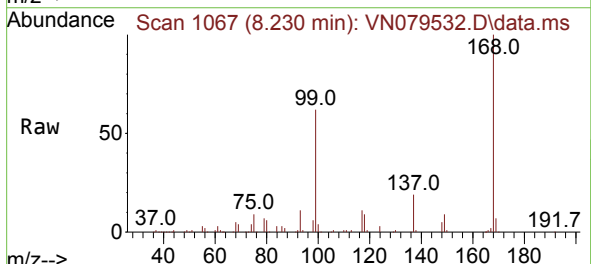


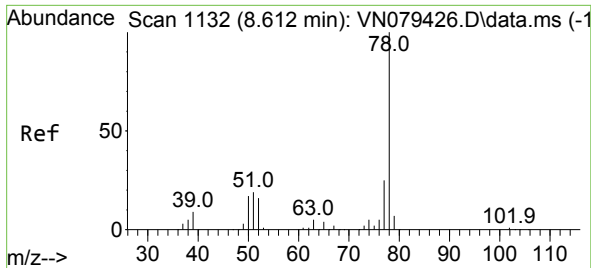
Tgt Ion: 75 Resp: 28568
 Ion Ratio Lower Upper
 75 100
 110 8.5 19.1 57.3#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.108 ug/l
 RT: 8.230 min Scan# 1067
 Delta R.T. -0.135 min
 Lab File: VN079532.D
 Acq: 11 Oct 2023 21:12

Tgt Ion: 117 Resp: 33935
 Ion Ratio Lower Upper
 117 100
 119 5.1 77.3 115.9#
 121 0.0 23.3 34.9#

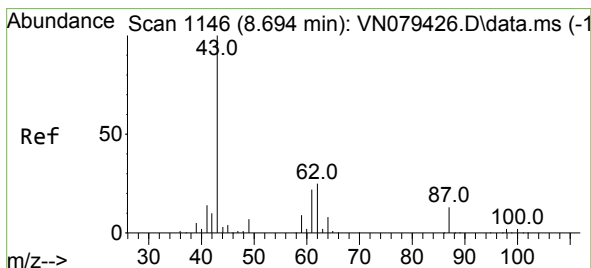
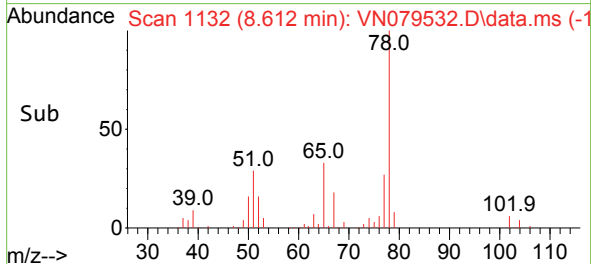
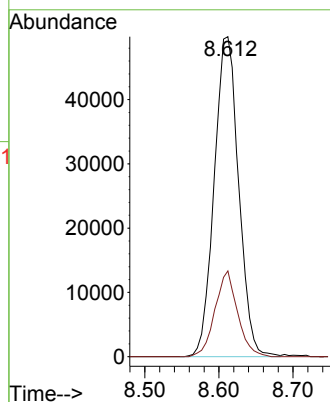
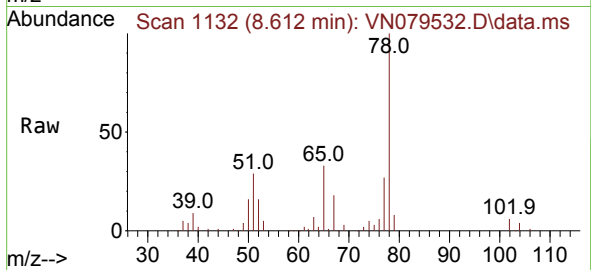




#40
Benzene
Concen: 5.786 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VN079532.D
Acq: 11 Oct 2023 21:12

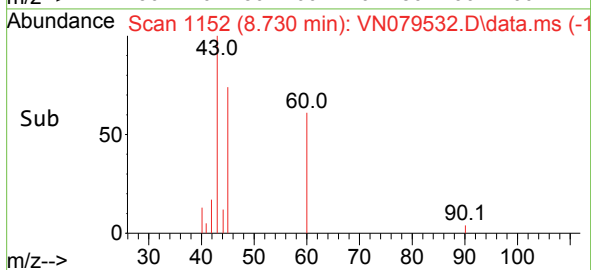
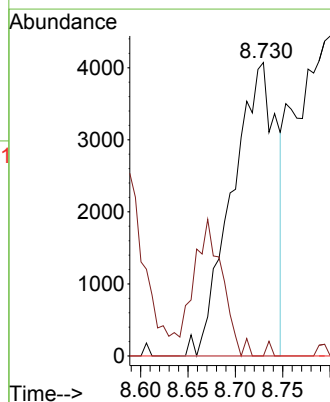
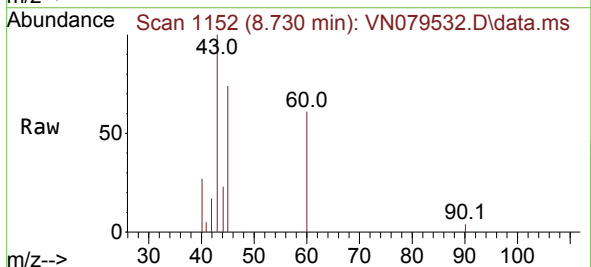
Instrument :
MSVOA_N
ClientSampleId :

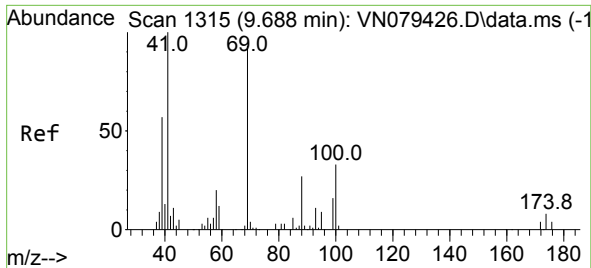
Tgt Ion: 78 Resp: 114025
Ion Ratio Lower Upper
78 100
77 26.8 19.0 28.6



#43
Isopropyl Acetate
Concen: 1.149 ug/l
RT: 8.730 min Scan# 1152
Delta R.T. 0.035 min
Lab File: VN079532.D
Acq: 11 Oct 2023 21:12

Tgt Ion: 43 Resp: 13294
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#





#48

Methyl methacrylate

Concen: 0.599 ug/l

RT: 9.653 min Scan# 1

Delta R.T. -0.035 min

Lab File: VN079532.D

Acq: 11 Oct 2023 21:12

Instrument :

MSVOA_N

ClientSampleId :

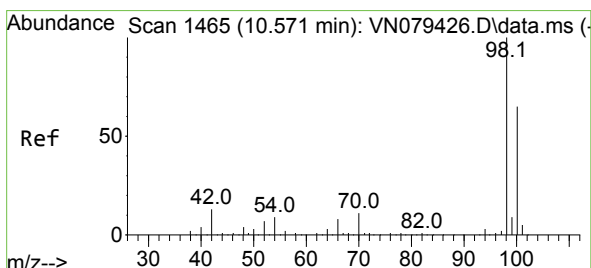
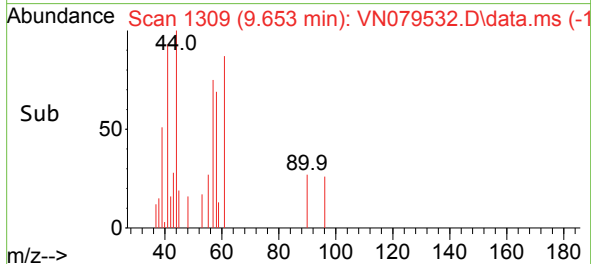
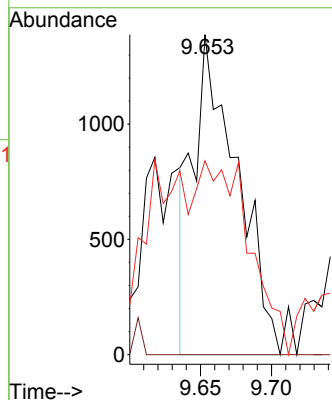
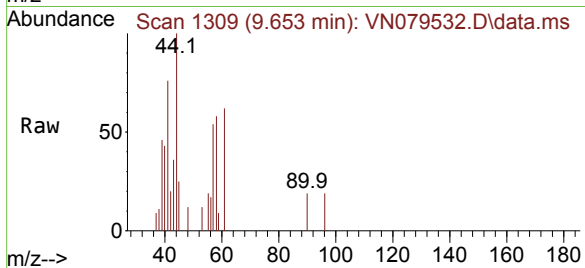
Tgt Ion: 41 Resp: 2969

Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 0.0 54.6 81.8#



#50

Toluene-d8

Concen: 45.842 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN079532.D

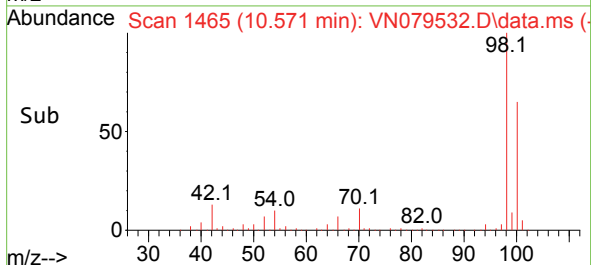
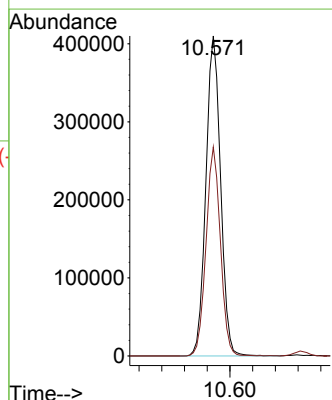
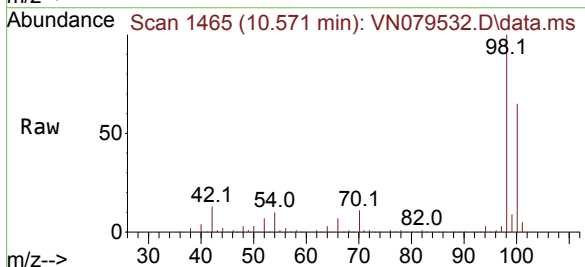
Acq: 11 Oct 2023 21:12

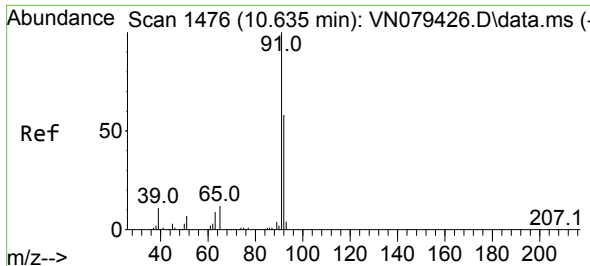
Tgt Ion: 98 Resp: 733360

Ion Ratio Lower Upper

98 100

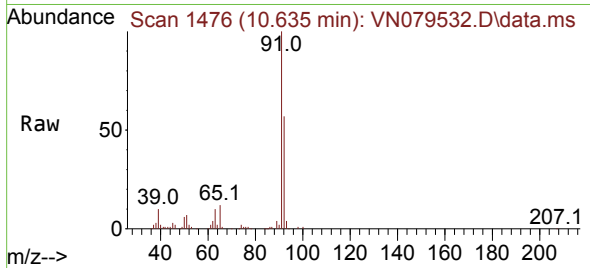
100 63.8 52.0 78.0



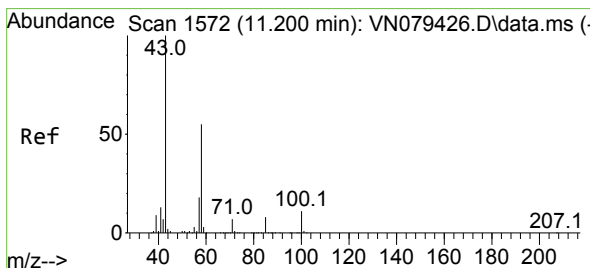
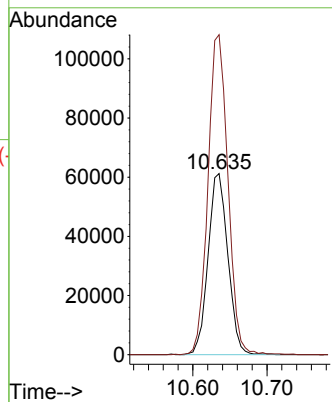
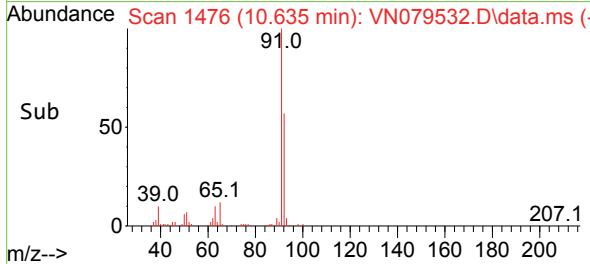


#52
Toluene
Concen: 9.795 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN079532.D
Acq: 11 Oct 2023 21:12

Instrument :
MSVOA_N
ClientSampleId :

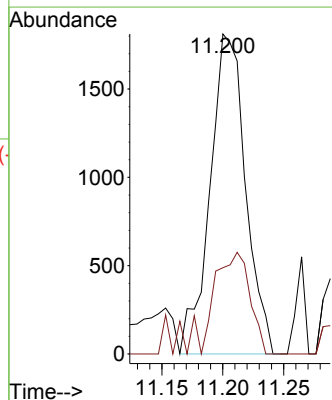
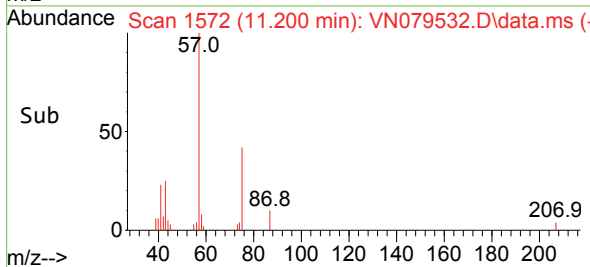
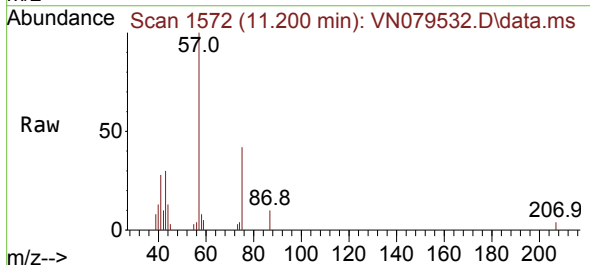


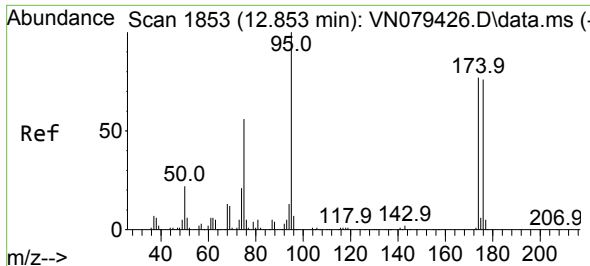
Tgt Ion: 92 Resp: 113631
Ion Ratio Lower Upper
92 100
91 178.3 137.4 206.0



#59
2-Hexanone
Concen: 0.781 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.000 min
Lab File: VN079532.D
Acq: 11 Oct 2023 21:12

Tgt Ion: 43 Resp: 3680
Ion Ratio Lower Upper
43 100
58 32.6 31.7 95.1

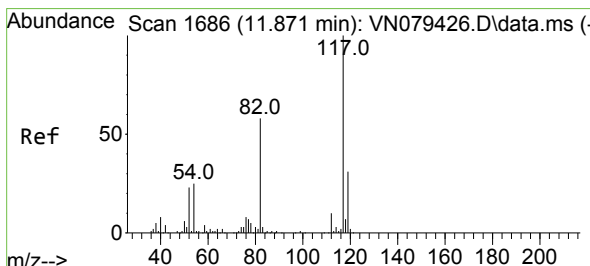
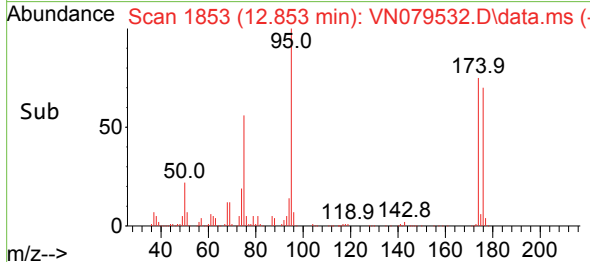
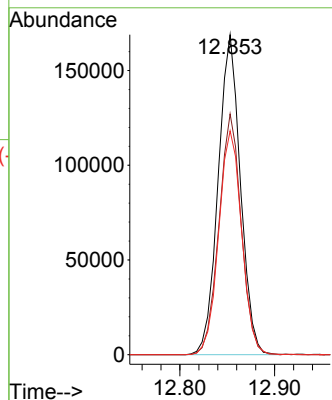
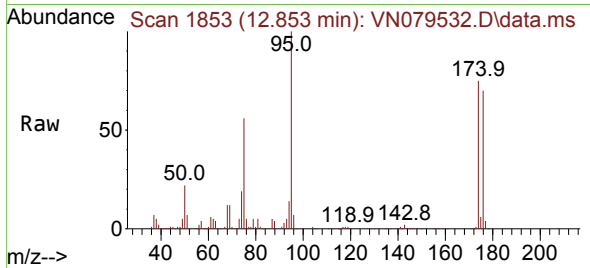




#62
4-Bromofluorobenzene
Concen: 53.743 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079532.D
Acq: 11 Oct 2023 21:12

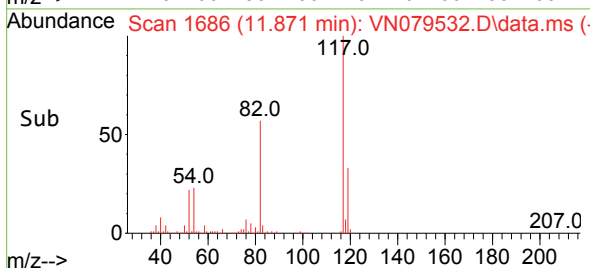
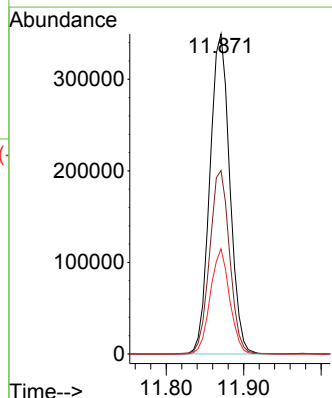
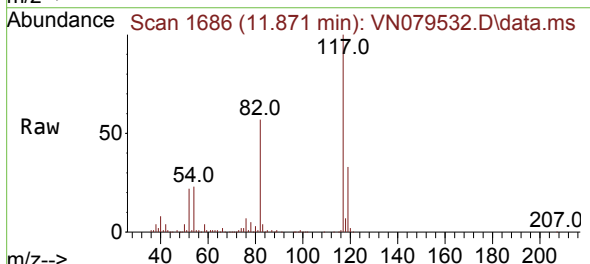
Instrument :
MSVOA_N
ClientSampleId :

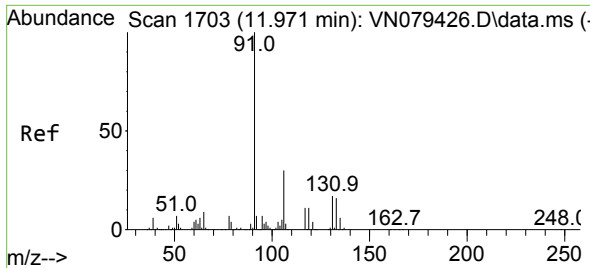
Tgt Ion: 95 Resp: 275916
Ion Ratio Lower Upper
95 100
174 75.3 0.0 143.8
176 72.1 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN079532.D
Acq: 11 Oct 2023 21:12

Tgt Ion: 117 Resp: 623758
Ion Ratio Lower Upper
117 100
82 57.3 44.0 66.0
119 32.8 25.6 38.4

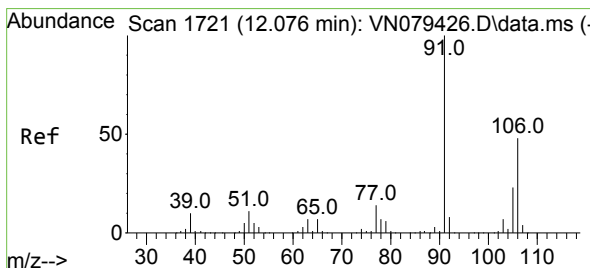
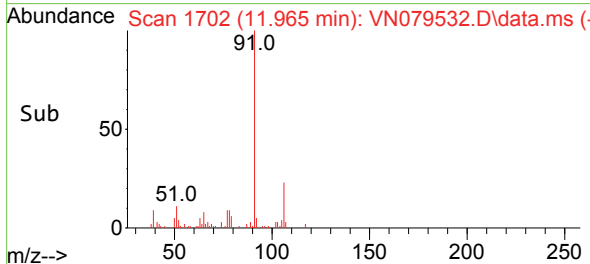
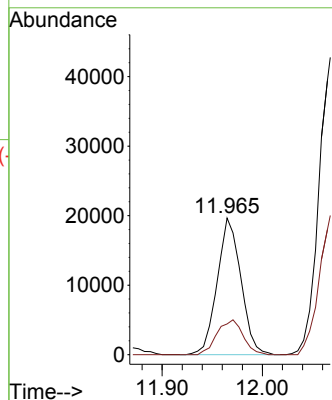
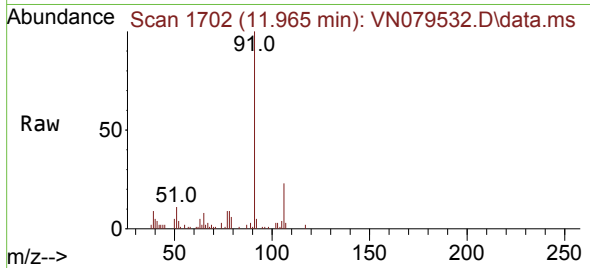




#67
Ethyl Benzene
Concen: 1.336 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.006 min
Lab File: VN079532.D
Acq: 11 Oct 2023 21:12

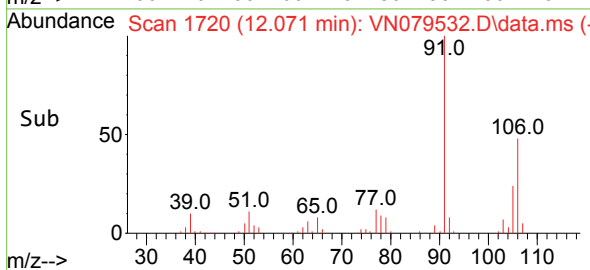
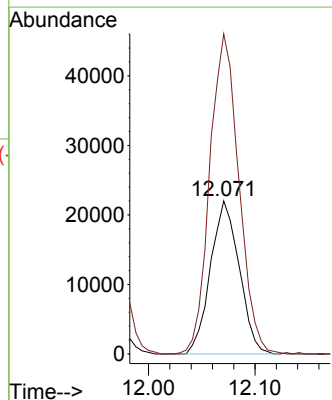
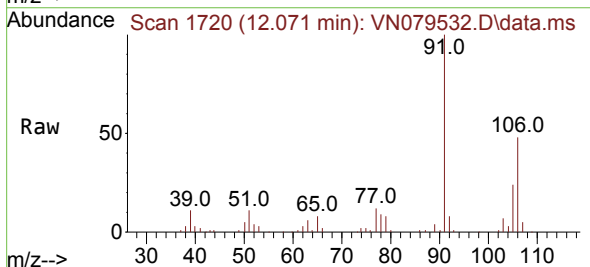
Instrument :
MSVOA_N
ClientSampleId :

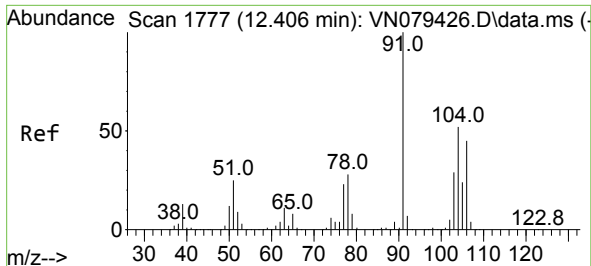
Tgt Ion: 91 Resp: 32268
Ion Ratio Lower Upper
91 100
106 22.5 25.6 38.4#



#68
m/p-Xylenes
Concen: 4.700 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.005 min
Lab File: VN079532.D
Acq: 11 Oct 2023 21:12

Tgt Ion:106 Resp: 41233
Ion Ratio Lower Upper
106 100
91 211.7 159.6 239.4

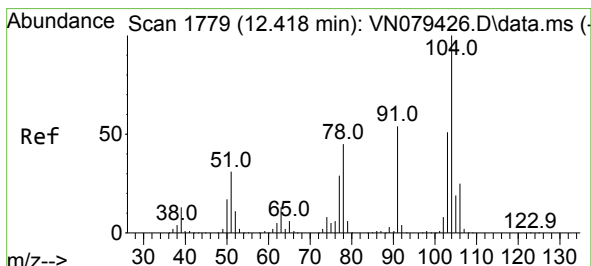
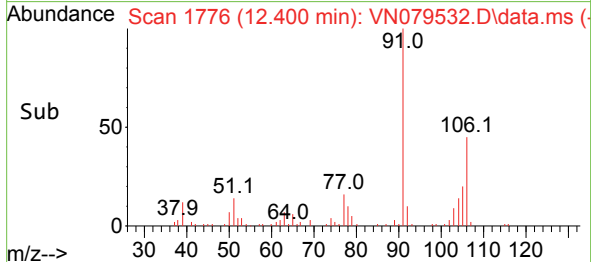
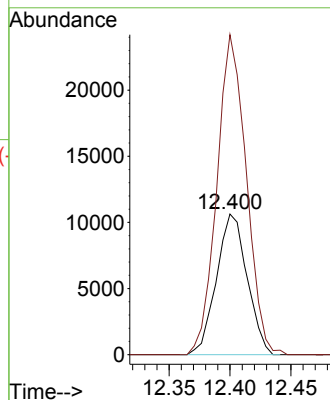
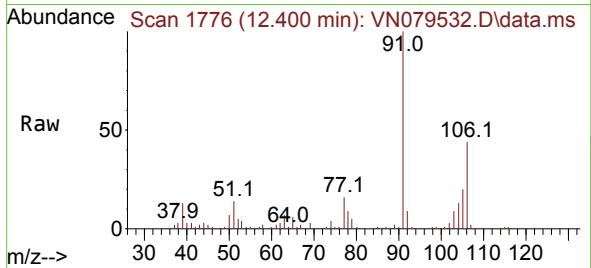




#69
o-Xylene
Concen: 2.158 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.006 min
Lab File: VN079532.D
Acq: 11 Oct 2023 21:12

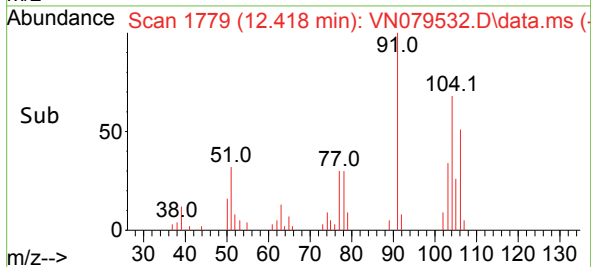
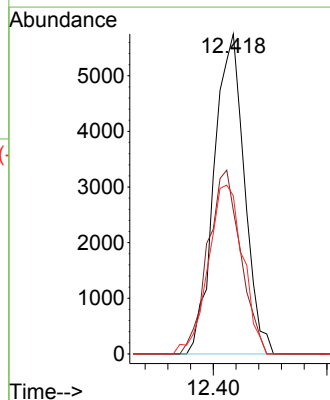
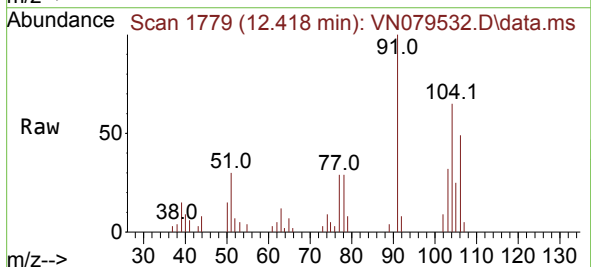
Instrument :
MSVOA_N
ClientSampleId :

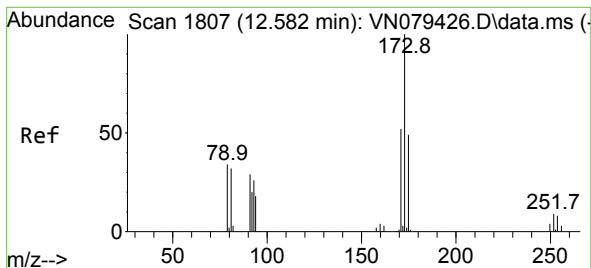
Tgt Ion:106 Resp: 18621
Ion Ratio Lower Upper
106 100
91 218.4 105.2 315.5



#70
Styrene
Concen: 0.779 ug/l
RT: 12.418 min Scan# 1779
Delta R.T. -0.000 min
Lab File: VN079532.D
Acq: 11 Oct 2023 21:12

Tgt Ion:104 Resp: 10612
Ion Ratio Lower Upper
104 100
78 62.4 39.5 59.3#
103 60.5 43.2 64.8





#71

Bromoform

Concen: 0.701 ug/l

RT: 12.853 min Scan# 1807

Delta R.T. 0.271 min

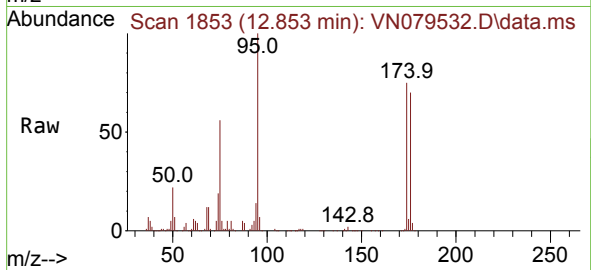
Lab File: VN079532.D

Acq: 11 Oct 2023 21:12

Instrument :

MSVOA_N

ClientSampleId :



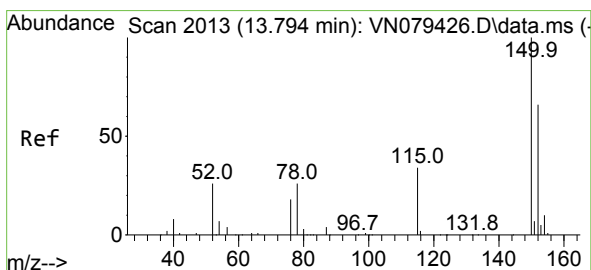
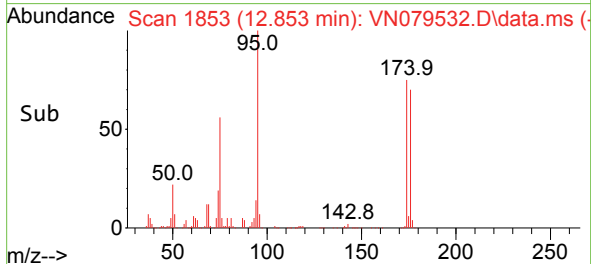
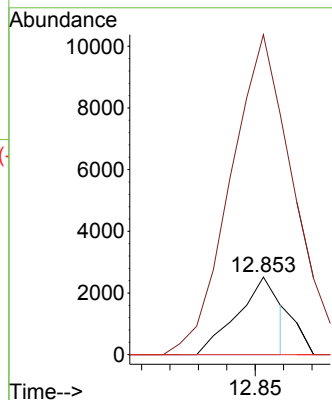
Tgt Ion:173 Resp: 2611

Ion Ratio Lower Upper

173 100

175 490.3 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN079532.D

Acq: 11 Oct 2023 21:12

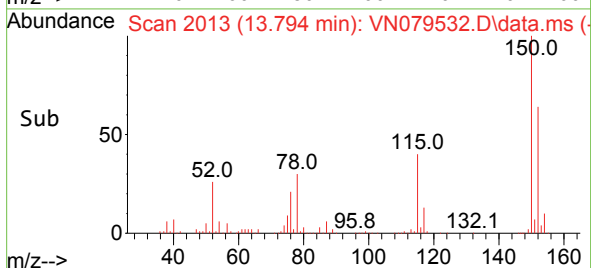
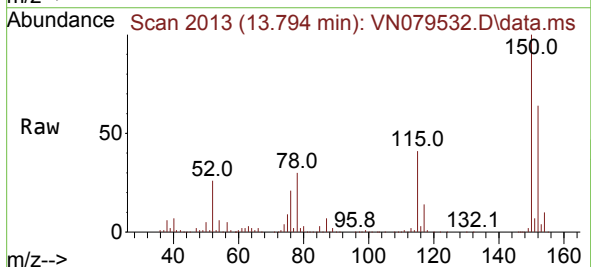
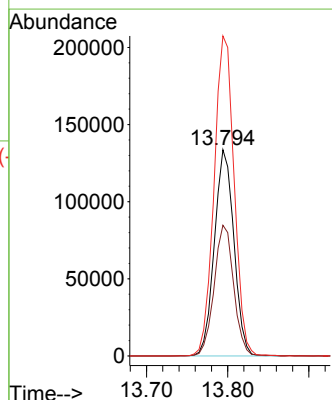
Tgt Ion:152 Resp: 223004

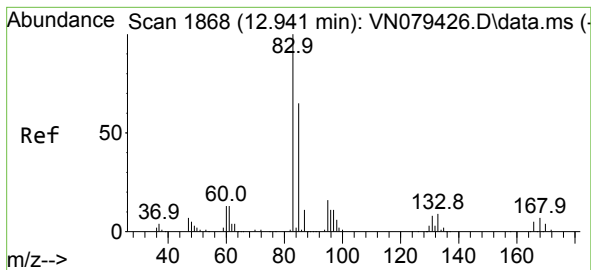
Ion Ratio Lower Upper

152 100

115 63.9 32.3 96.8

150 159.5 0.0 355.8





#75

1,1,2,2-Tetrachloroethane

Concen: 4.126 ug/l

RT: 12.800 min Scan# 1844

Delta R.T. -0.141 min

Lab File: VN079532.D

Acq: 11 Oct 2023 21:12

Instrument :

MSVOA_N

ClientSampleId :

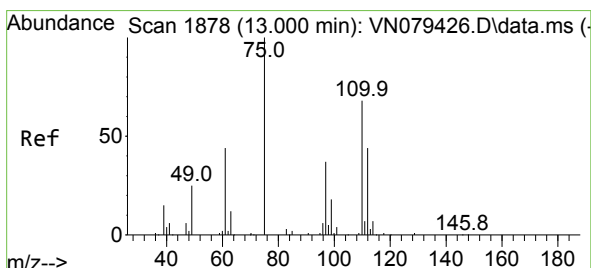
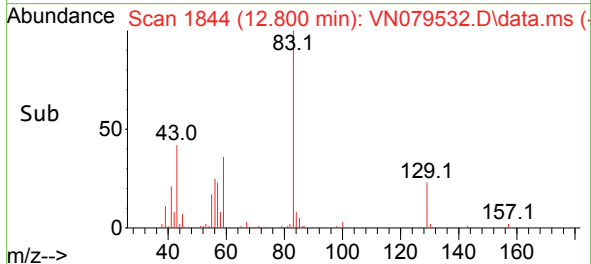
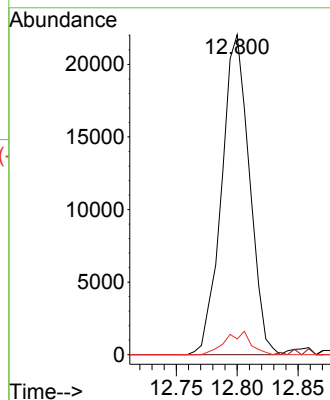
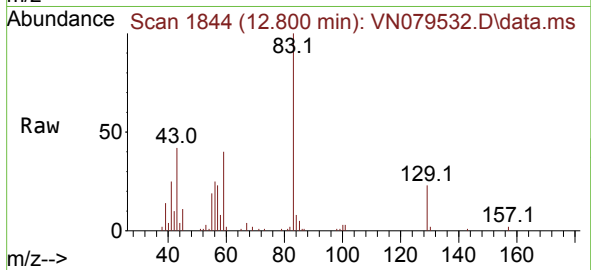
Tgt Ion: 83 Resp: 35094

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 6.6 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 24.005 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079532.D

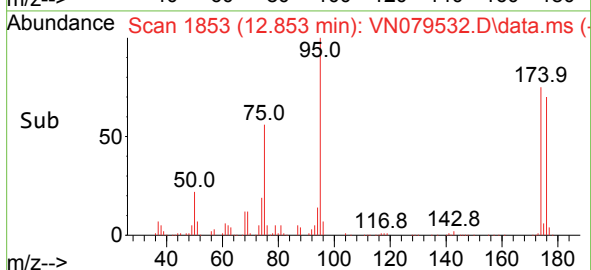
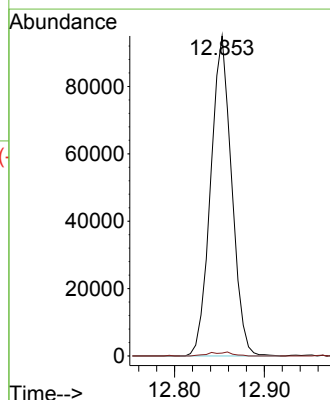
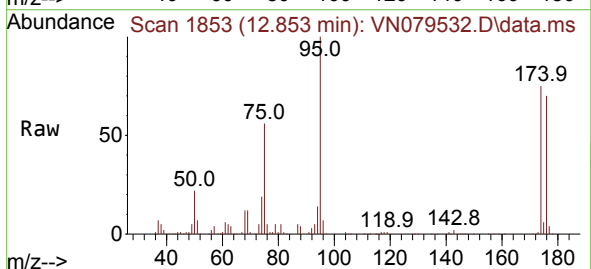
Acq: 11 Oct 2023 21:12

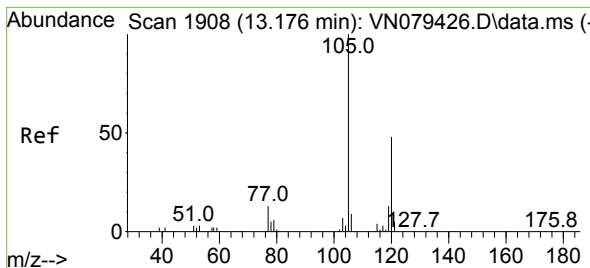
Tgt Ion: 75 Resp: 154347

Ion Ratio Lower Upper

75 100

77 1.3 84.5 253.5#





#80

1,3,5-Trimethylbenzene

Concen: 0.376 ug/l

RT: 13.171 min Scan# 1908

Delta R.T. -0.005 min

Lab File: VN079532.D

Acq: 11 Oct 2023 21:12

Instrument :

MSVOA_N

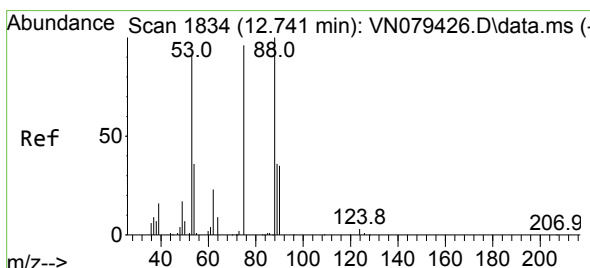
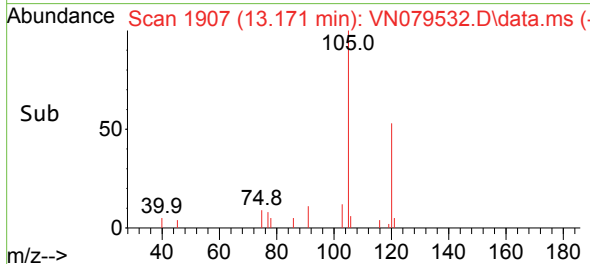
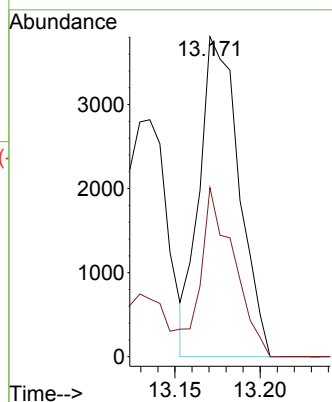
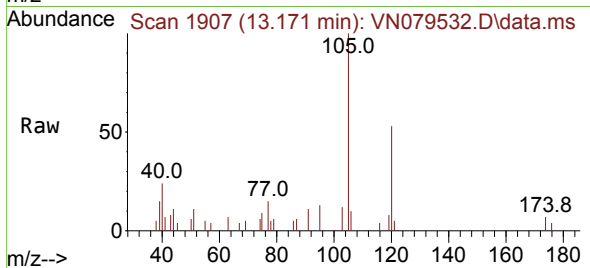
ClientSampleId :

Tgt Ion:105 Resp: 6152

Ion Ratio Lower Upper

105 100

120 43.7 24.1 72.3



#81

trans-1,4-Dichloro-2-butene

Concen: 69.651 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN079532.D

Acq: 11 Oct 2023 21:12

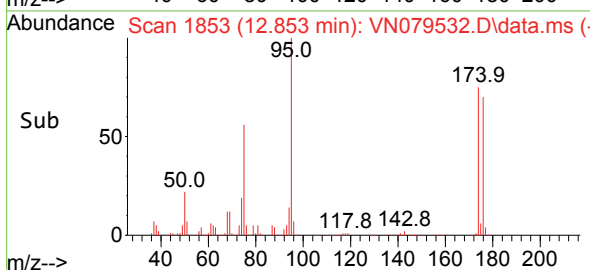
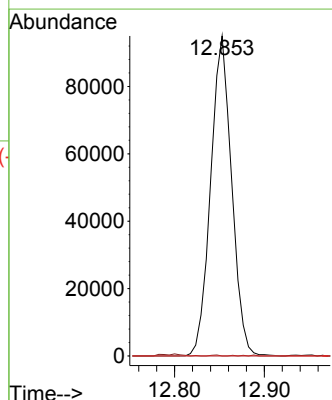
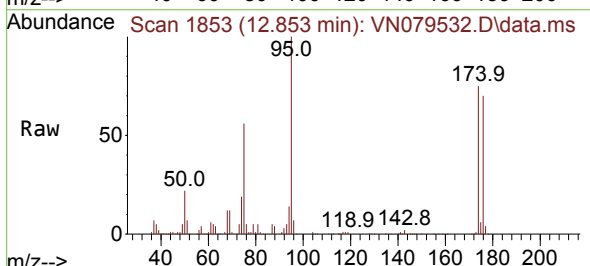
Tgt Ion: 75 Resp: 154347

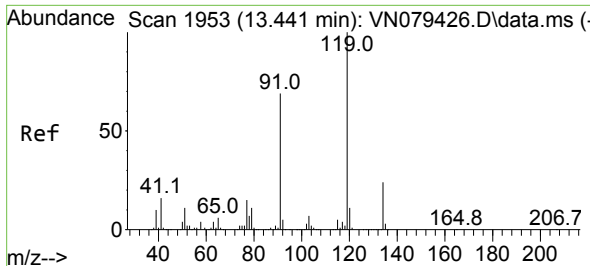
Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.2#

89 0.0 38.8 58.2#

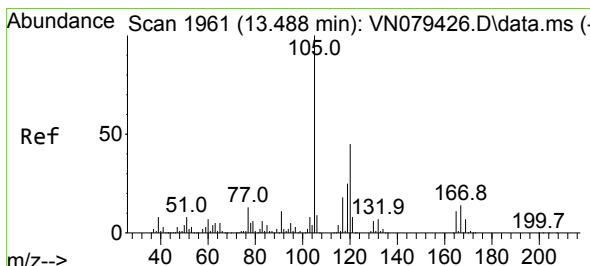
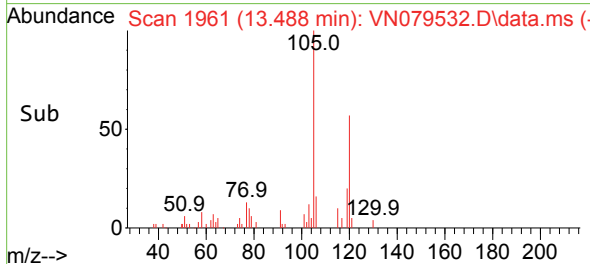
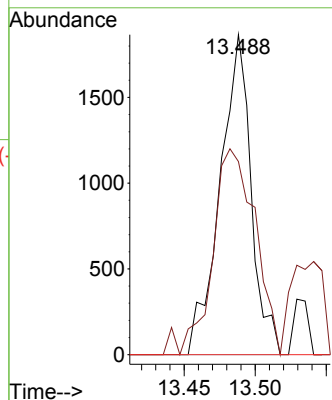
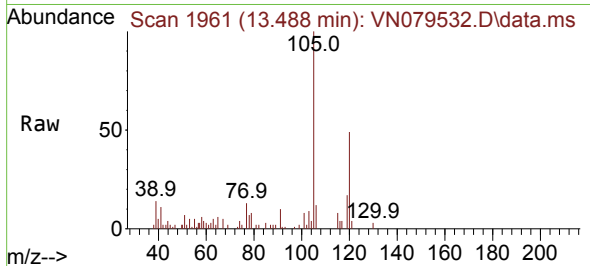




#83
tert-Butylbenzene
Concen: 0.212 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. 0.047 min
Lab File: VN079532.D
Acq: 11 Oct 2023 21:12

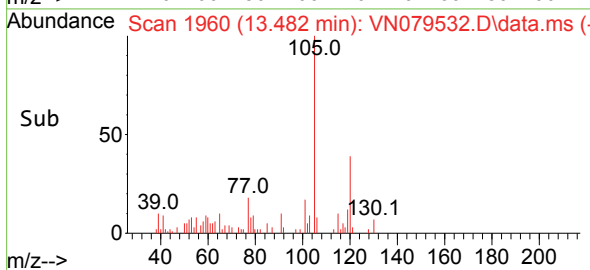
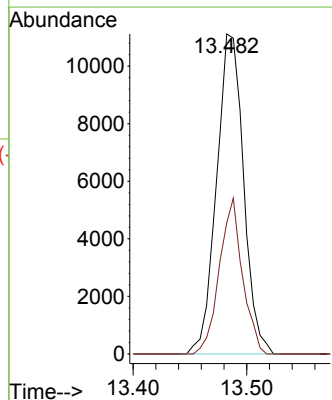
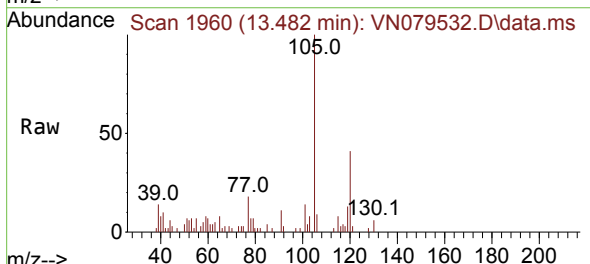
Instrument :
MSVOA_N
ClientSampleId :

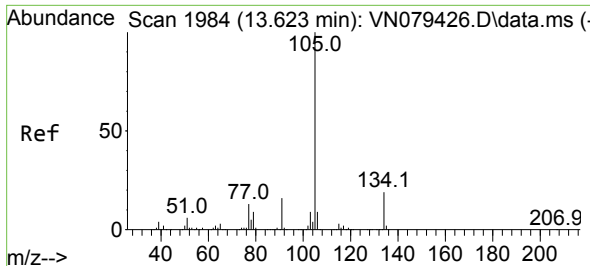
Tgt Ion:119 Resp: 2842
Ion Ratio Lower Upper
119 100
91 89.2 33.9 101.7
134 0.0 13.2 39.6#



#84
1,2,4-Trimethylbenzene
Concen: 1.177 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.006 min
Lab File: VN079532.D
Acq: 11 Oct 2023 21:12

Tgt Ion:105 Resp: 18374
Ion Ratio Lower Upper
105 100
120 41.6 22.0 66.0

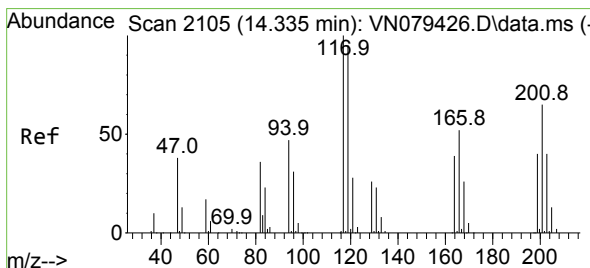
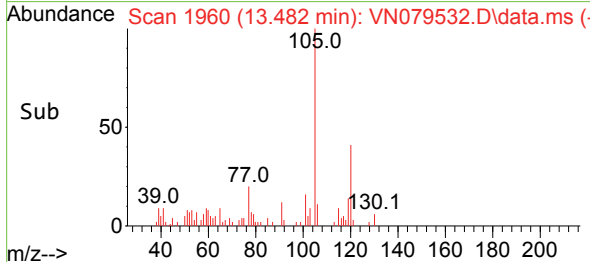
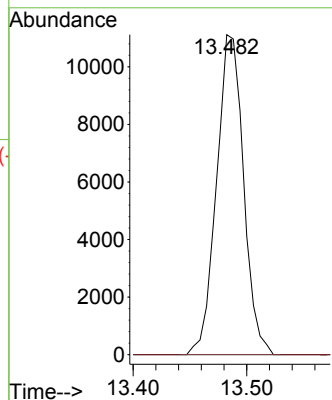
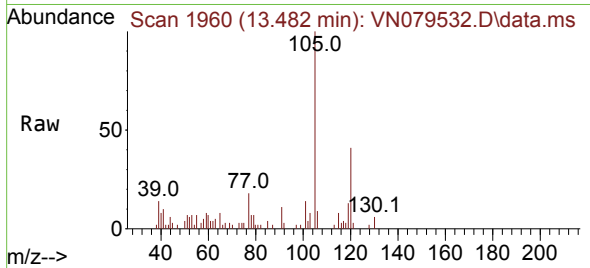




#85
 sec-Butylbenzene
 Concen: 0.983 ug/l
 RT: 13.482 min Scan# 1984
 Delta R.T. -0.141 min
 Lab File: VN079532.D
 Acq: 11 Oct 2023 21:12

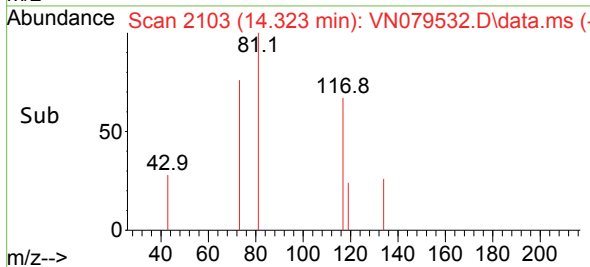
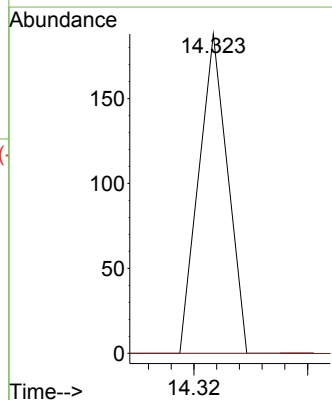
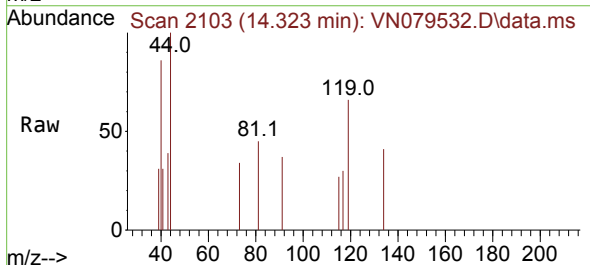
Instrument :
 MSVOA_N
 ClientSampleId :

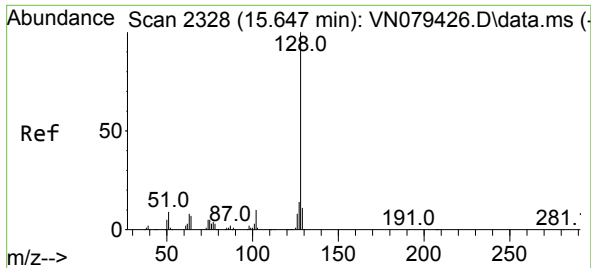
Tgt Ion:105 Resp: 18374
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.8 29.3#



#90
 Hexachloroethane
 Concen: Below Cal
 RT: 14.323 min Scan# 2103
 Delta R.T. -0.012 min
 Lab File: VN079532.D
 Acq: 11 Oct 2023 21:12

Tgt Ion:117 Resp: 66
 Ion Ratio Lower Upper
 117 100
 201 0.0 29.3 88.0#





#95

Naphthalene

Concen: 21.946 ug/l

RT: 15.647 min Scan# 21

Delta R.T. -0.000 min

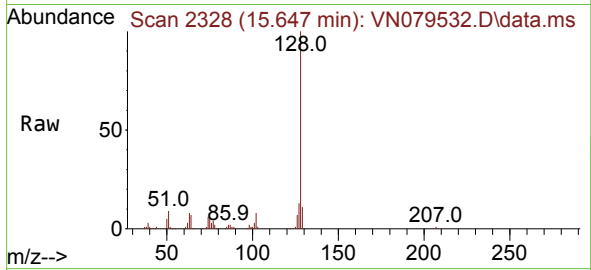
Lab File: VN079532.D

Acq: 11 Oct 2023 21:12

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:128 Resp: 163348

Ion Ratio Lower Upper

128 100

127 13.2 10.0 15.0

129 10.4 8.7 13.1

