

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102623\
 Data File : VN079696.D
 Acq On : 26 Oct 2023 14:43
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 27 01:20:47 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)

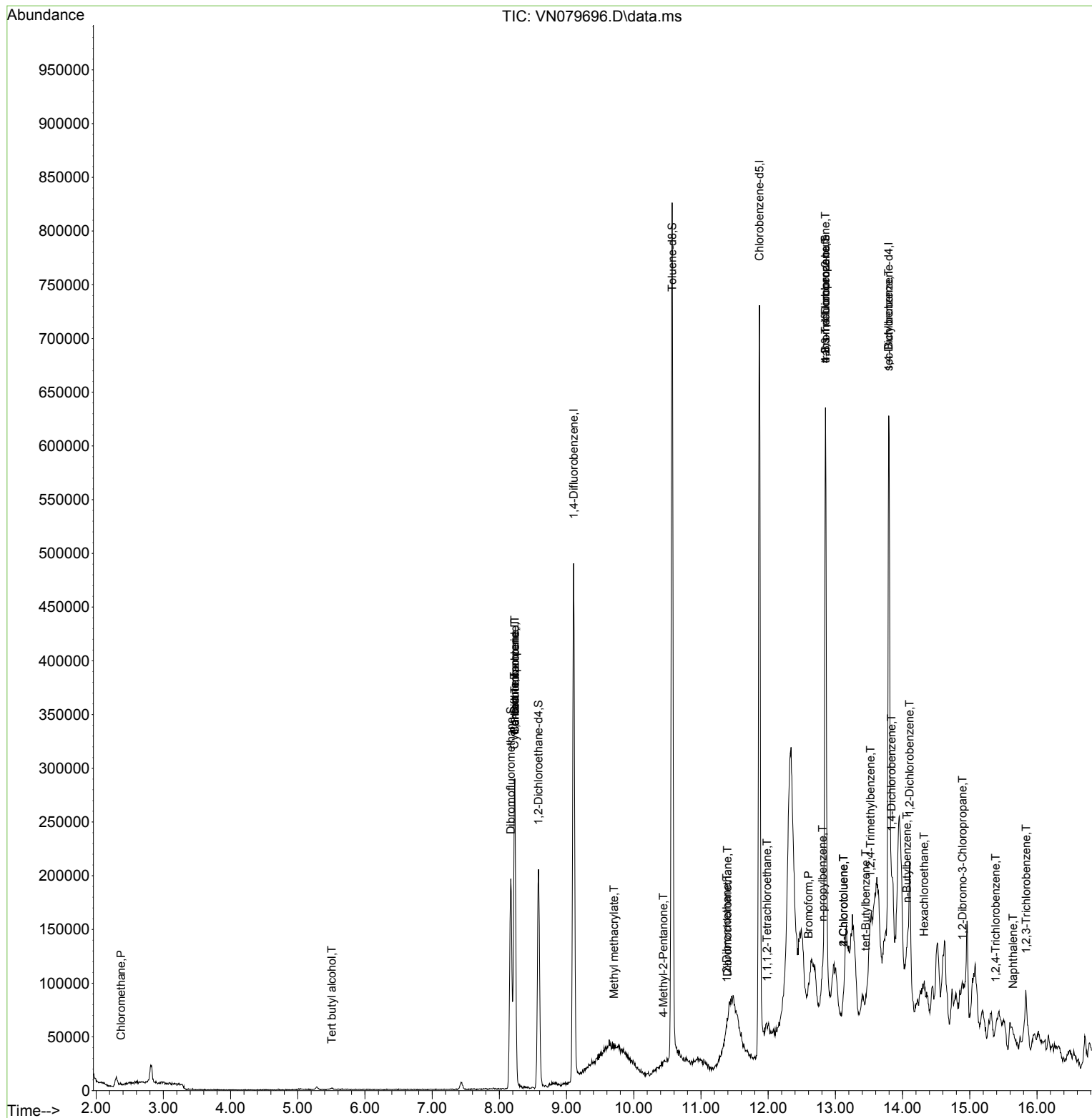
Internal Standards						
1) Pentafluorobenzene	8.229	168	202472	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	401471	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	417648	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	131028	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	165089	50.287	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.580%			
35) Dibromofluoromethane	8.171	113	141223	48.949	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.900%			
50) Toluene-d8	10.570	98	546098	52.312	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.620%			
62) 4-Bromofluorobenzene	12.853	95	171525	51.199	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.400%			
Target Compounds						Qvalue
3) Chloromethane	2.371	50	873	0.241	ug/l #	42
11) Tert butyl alcohol	5.506	59	724	1.465	ug/l #	72
20) Methylene Chloride	5.277	84	1541	Below Cal	#	74
31) Cyclohexane	8.224	56	5338	1.146	ug/l #	55
36) 1,1-Dichloropropene	8.229	75	17904	4.135	ug/l #	49
38) Carbon Tetrachloride	8.229	117	22303	5.145	ug/l #	16
48) Methyl methacrylate	9.706	41	1024	0.317	ug/l #	76
51) 4-Methyl-2-Pentanone	10.441	43	967	0.227	ug/l #	53
60) Dibromochloromethane	11.394	129	972	0.318	ug/l	97
61) 1,2-Dibromoethane	11.382	107	656	0.218	ug/l	91
66) 1,1,1,2-Tetrachloroethane	11.982	131	802	0.235	ug/l #	39
71) Bromoform	12.600	173	1024	0.411	ug/l #	28
75) 1,1,2,2-Tetrachloroethane	12.917	83	334	Below Cal	#	39
76) 1,2,3-Trichloropropane	12.853	75	98207	25.995	ug/l #	1
78) n-propylbenzene	12.812	91	8257	0.599	ug/l	82
79) 2-Chlorotoluene	13.123	91	3443	0.390	ug/l	89
81) trans-1,4-Dichloro-2-b...	12.853	75	98207	75.426	ug/l #	15
82) 4-Chlorotoluene	13.123	91	3443	0.410	ug/l	88
83) tert-Butylbenzene	13.453	119	5066	0.643	ug/l #	28
84) 1,2,4-Trimethylbenzene	13.523	105	27786	3.029	ug/l #	32
85) sec-Butylbenzene	13.794	105	4334	0.395	ug/l	100
88) 1,4-Dichlorobenzene	13.835	146	2189	0.447	ug/l #	25
89) n-Butylbenzene	14.064	91	2474	0.368	ug/l #	82
90) Hexachloroethane	14.323	117	2825	0.619	ug/l #	21
91) 1,2-Dichlorobenzene	14.106	146	3190	0.690	ug/l #	24
92) 1,2-Dibromo-3-Chloropr...	14.894	75	647	0.918	ug/l	70
93) 1,2,4-Trichlorobenzene	15.388	180	380	0.265	ug/l #	1
95) Naphthalene	15.647	128	8192	1.873	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.841	180	741	0.434	ug/l #	1

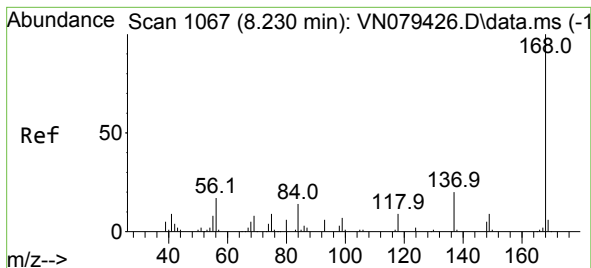
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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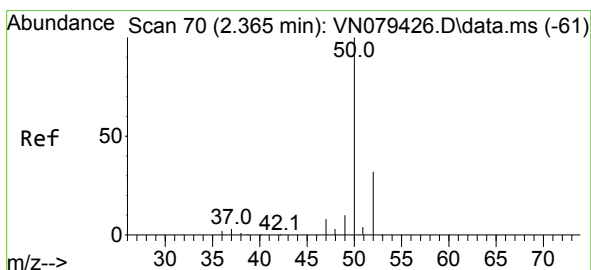
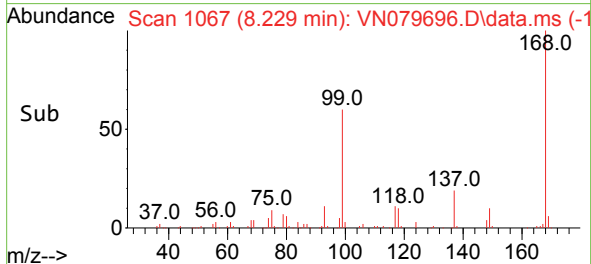
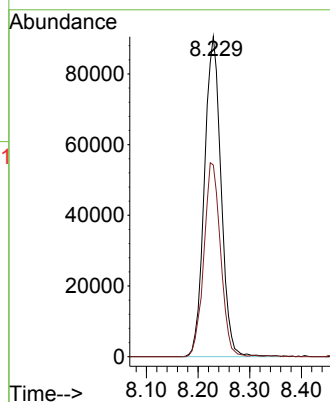
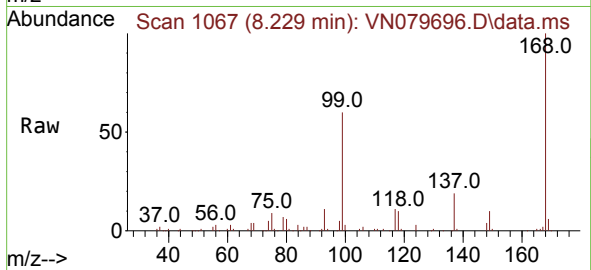




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN079696.D
Acq: 26 Oct 2023 14:43

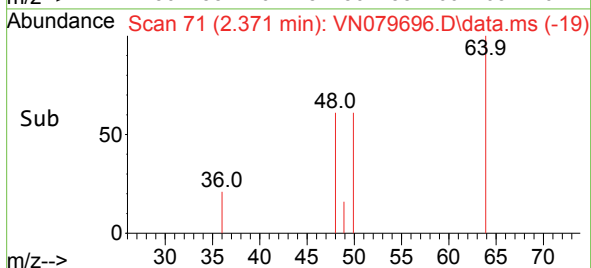
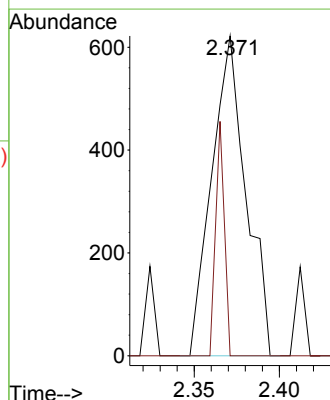
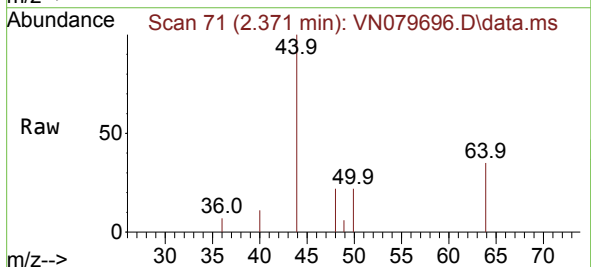
Instrument :
MSVOA_N
ClientSampleId :

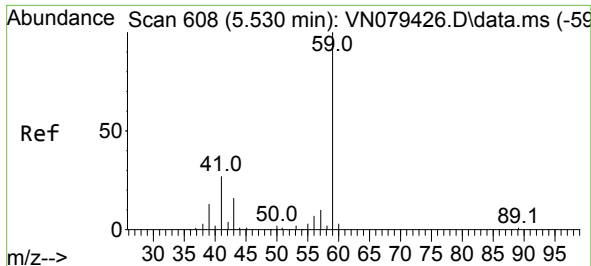
Tgt Ion:168 Resp: 202472
Ion Ratio Lower Upper
168 100
99 59.9 53.0 79.6



#3
Chloromethane
Concen: 0.241 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN079696.D
Acq: 26 Oct 2023 14:43

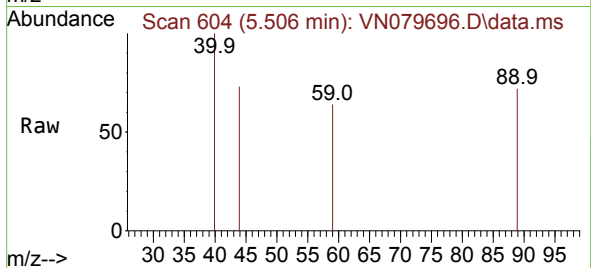
Tgt Ion: 50 Resp: 873
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#



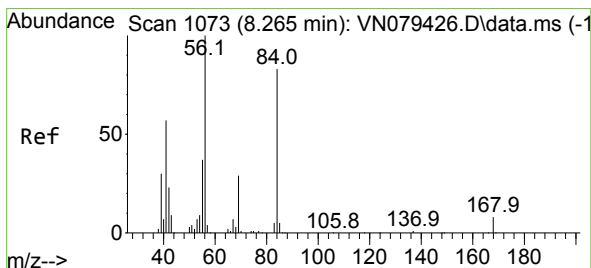
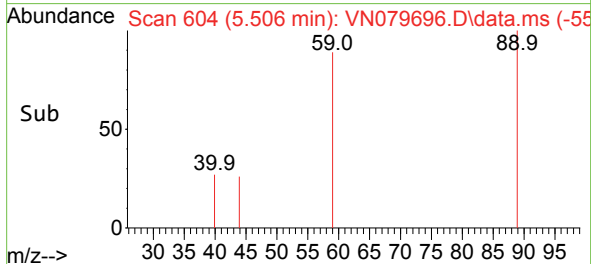
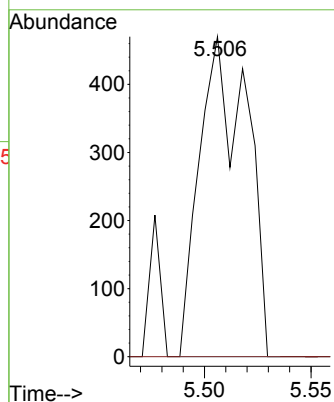


#11
Tert butyl alcohol
Concen: 1.465 ug/l
RT: 5.506 min Scan# 608
Delta R.T. -0.024 min
Lab File: VN079696.D
Acq: 26 Oct 2023 14:43

Instrument :
MSVOA_N
ClientSampleId :

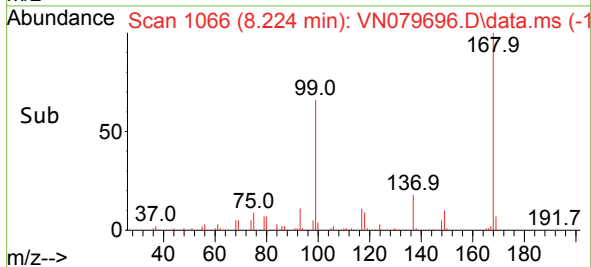
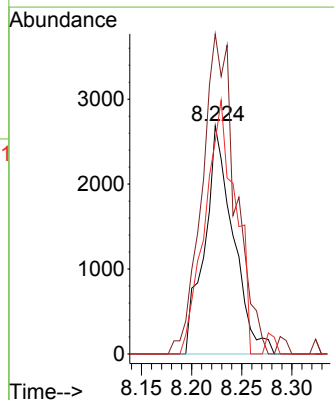
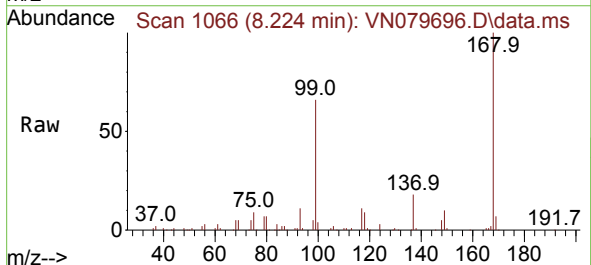


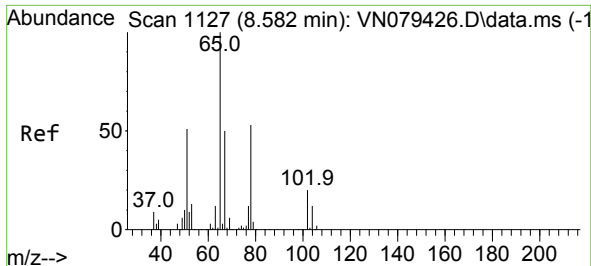
Tgt Ion: 59 Resp: 724
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#31
Cyclohexane
Concen: 1.146 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN079696.D
Acq: 26 Oct 2023 14:43

Tgt Ion: 56 Resp: 5338
Ion Ratio Lower Upper
56 100
69 134.5 26.8 40.2#
84 103.6 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 50.287 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN079696.D

Acq: 26 Oct 2023 14:43

Instrument :

MSVOA_N

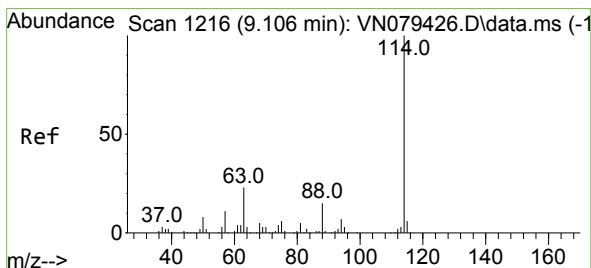
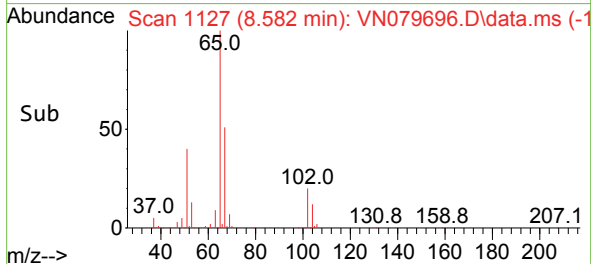
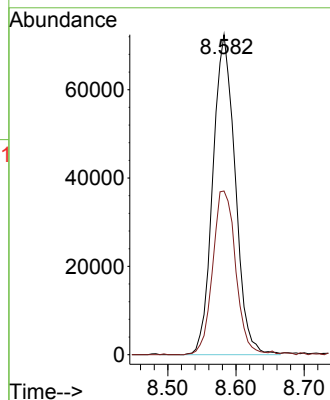
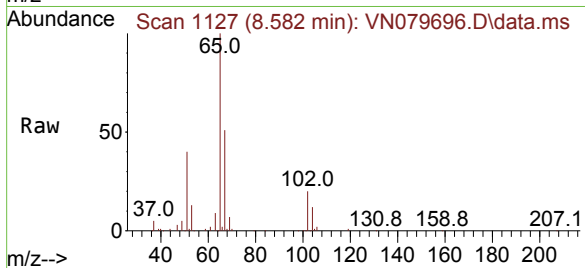
ClientSampleId :

Tgt Ion: 65 Resp: 165089

Ion Ratio Lower Upper

65 100

67 53.0 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: VN079696.D

Acq: 26 Oct 2023 14:43

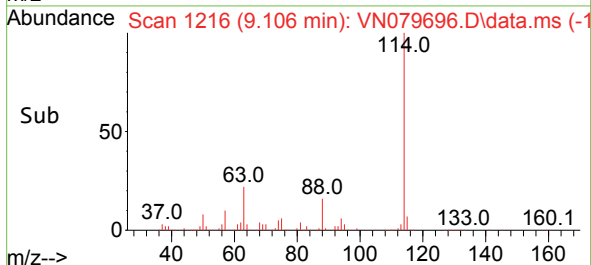
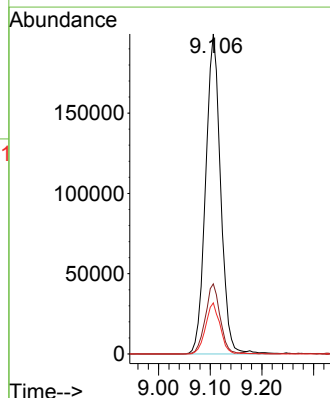
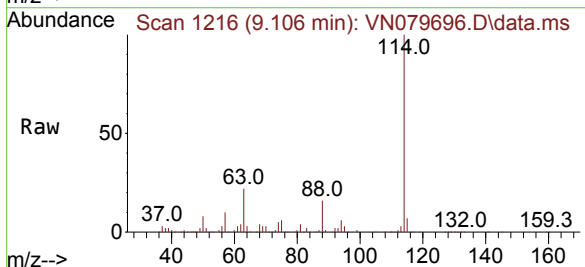
Tgt Ion: 114 Resp: 401471

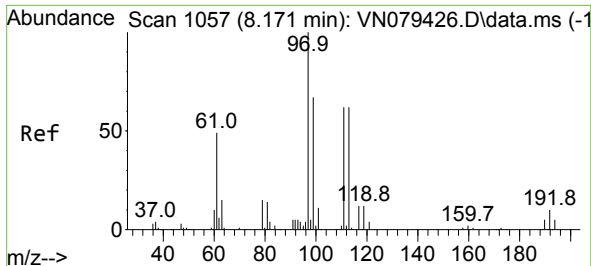
Ion Ratio Lower Upper

114 100

63 21.9 0.0 36.4

88 16.0 0.0 30.6





#35

Dibromofluoromethane

Concen: 48.949 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

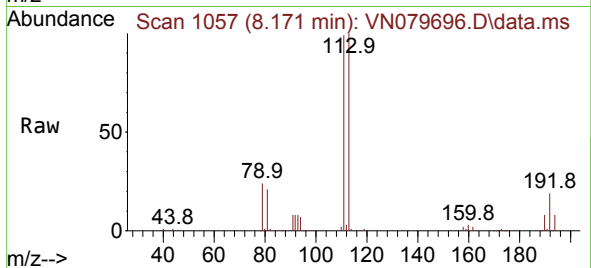
Lab File: VN079696.D

Acq: 26 Oct 2023 14:43

Instrument :

MSVOA_N

ClientSampleId :



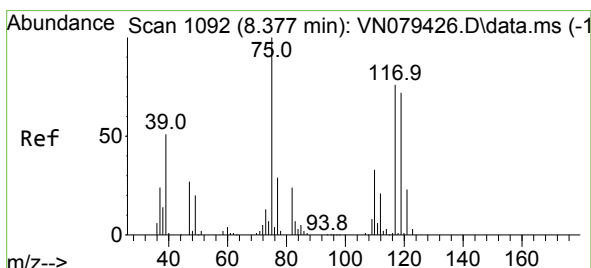
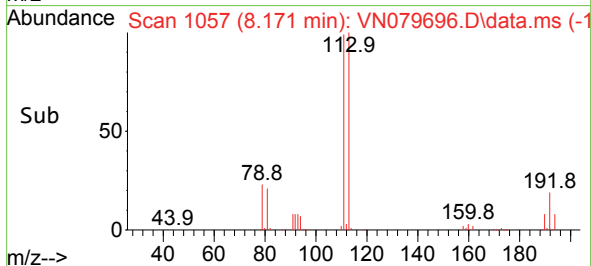
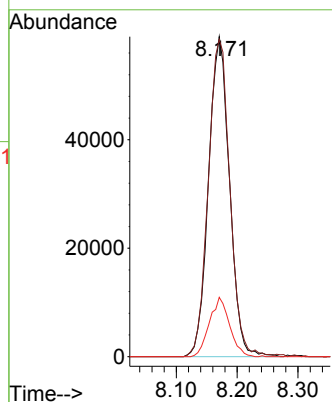
Tgt Ion:113 Resp: 141223

Ion Ratio Lower Upper

113 100

111 102.0 82.6 123.8

192 17.8 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.135 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN079696.D

Acq: 26 Oct 2023 14:43

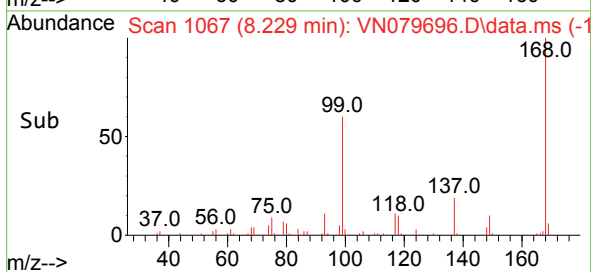
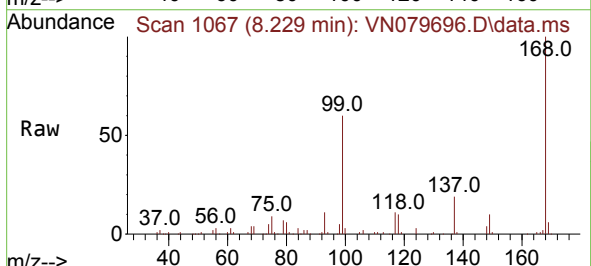
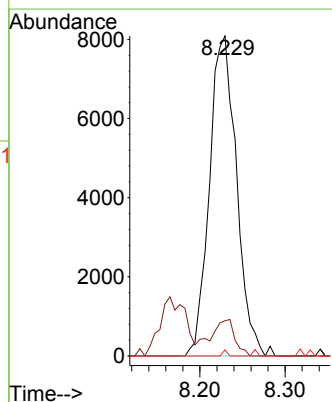
Tgt Ion: 75 Resp: 17904

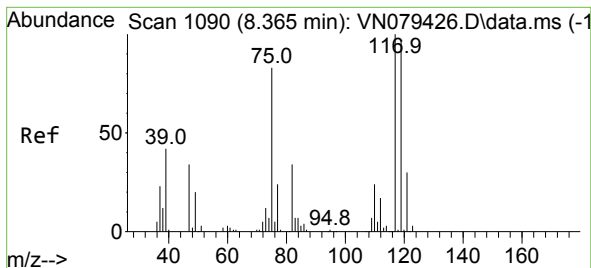
Ion Ratio Lower Upper

75 100

110 9.5 19.1 57.3#

77 0.3 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.145 ug/l

RT: 8.229 min Scan# 1

Delta R.T. -0.135 min

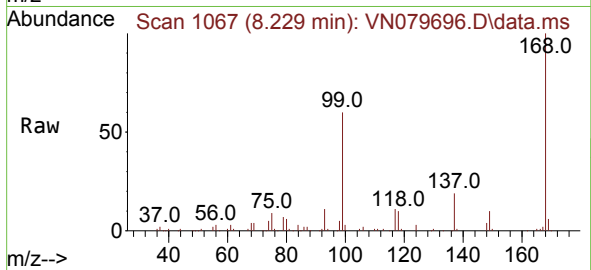
Lab File: VN079696.D

Acq: 26 Oct 2023 14:43

Instrument :

MSVOA_N

ClientSampleId :



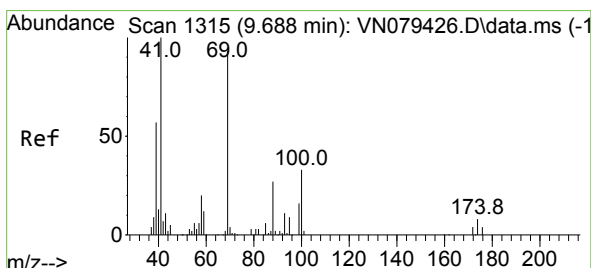
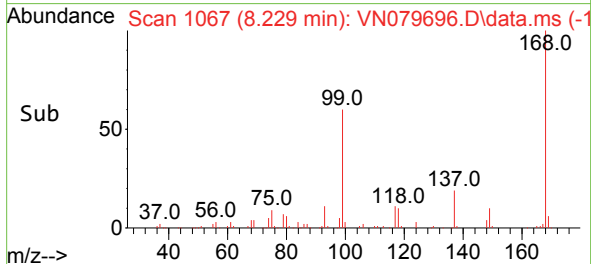
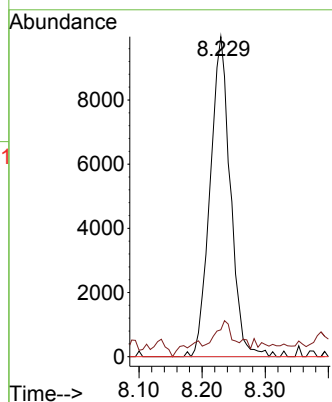
Tgt Ion:117 Resp: 22303

Ion Ratio Lower Upper

117 100

119 5.2 77.3 115.9#

121 0.0 23.3 34.9#



#48

Methyl methacrylate

Concen: 0.317 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.018 min

Lab File: VN079696.D

Acq: 26 Oct 2023 14:43

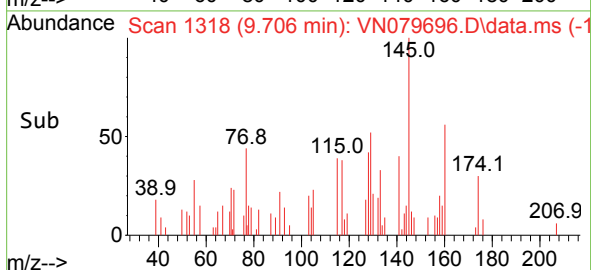
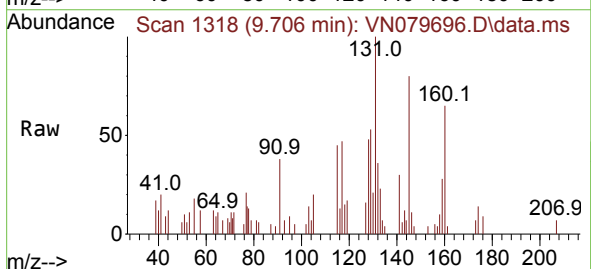
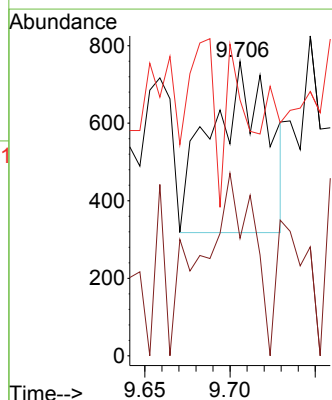
Tgt Ion: 41 Resp: 1024

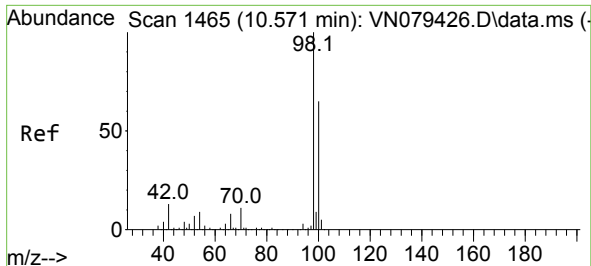
Ion Ratio Lower Upper

41 100

69 96.3 90.4 135.6

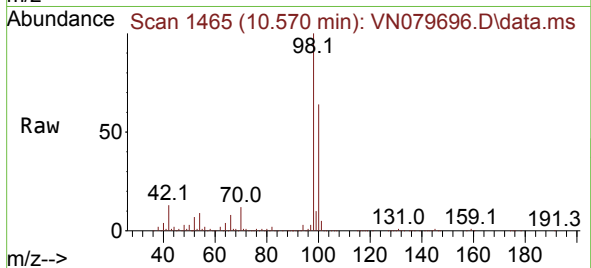
39 37.3 54.6 81.8#



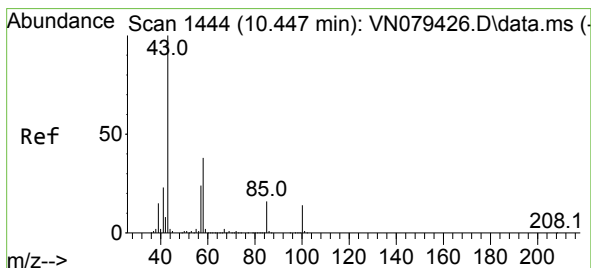
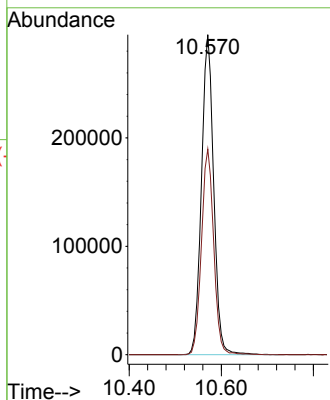
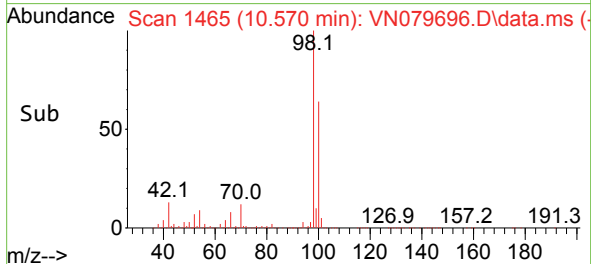


#50
Toluene-d8
Concen: 52.312 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079696.D
Acq: 26 Oct 2023 14:43

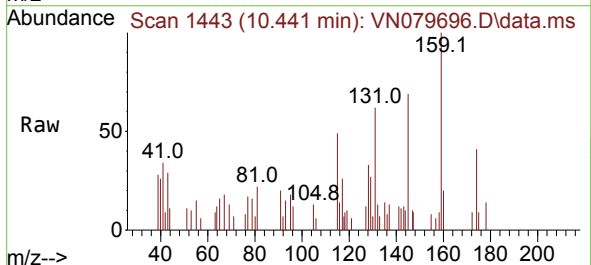
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MSVOA_N
ClientSampleId :



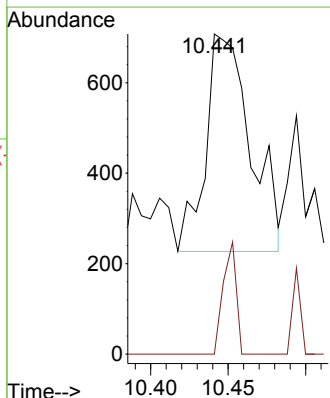
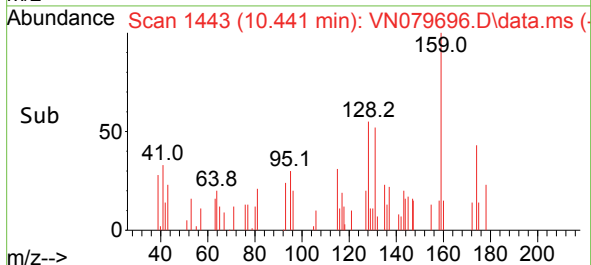
Tgt Ion: 98 Resp: 546098
Ion Ratio Lower Upper
98 100
100 64.4 52.0 78.0

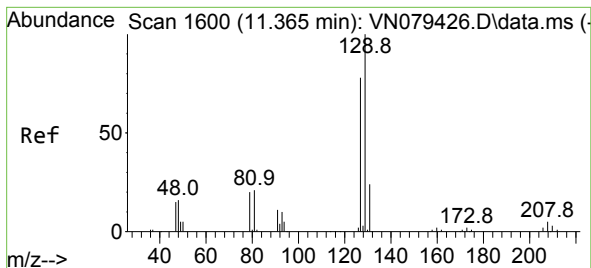


#51
4-Methyl-2-Pentanone
Concen: 0.227 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN079696.D
Acq: 26 Oct 2023 14:43



Tgt Ion: 43 Resp: 967
Ion Ratio Lower Upper
43 100
58 14.9 36.6 54.8#





#60

Dibromochloromethane

Concen: 0.318 ug/l

RT: 11.394 min Scan# 1

Delta R.T. 0.029 min

Lab File: VN079696.D

Acq: 26 Oct 2023 14:43

Instrument :

MSVOA_N

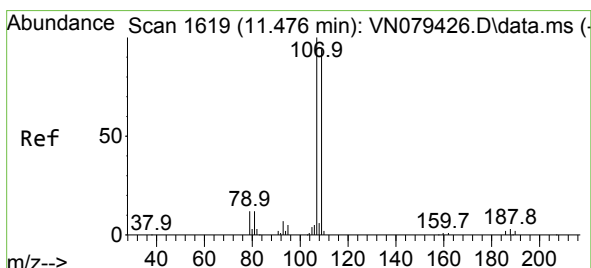
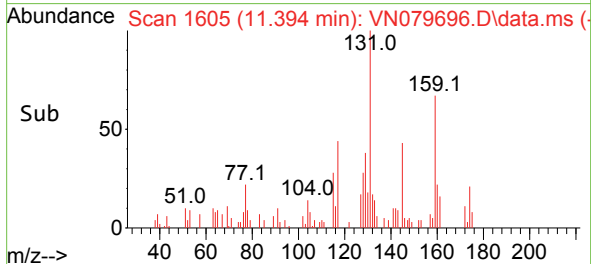
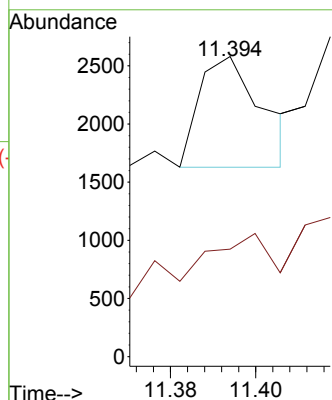
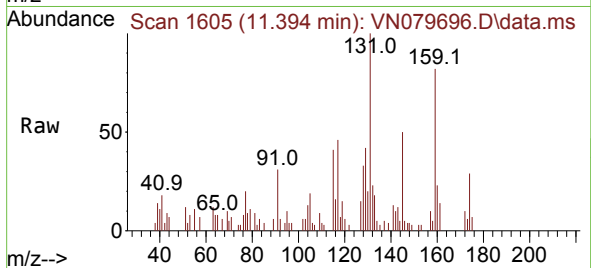
ClientSampleId :

Tgt Ion:129 Resp: 972

Ion Ratio Lower Upper

129 100

127 80.0 38.6 116.0



#61

1,2-Dibromoethane

Concen: 0.218 ug/l

RT: 11.382 min Scan# 1603

Delta R.T. -0.094 min

Lab File: VN079696.D

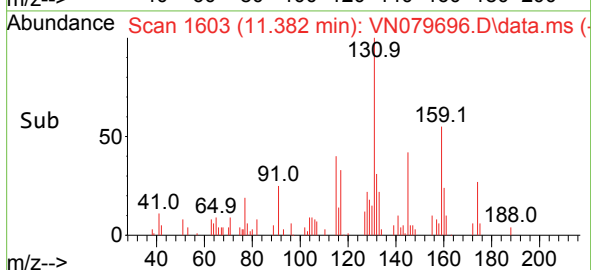
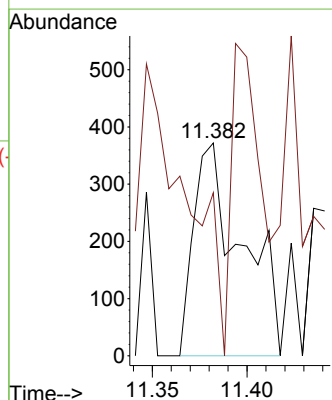
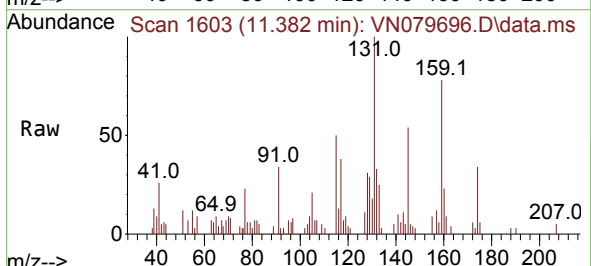
Acq: 26 Oct 2023 14:43

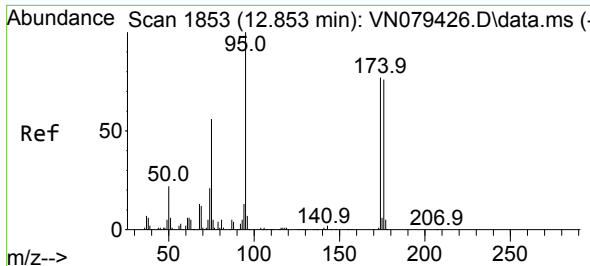
Tgt Ion:107 Resp: 656

Ion Ratio Lower Upper

107 100

109 86.6 76.6 114.8

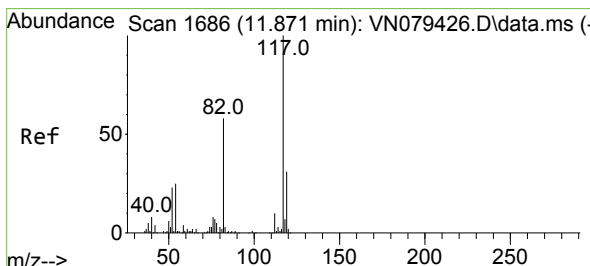
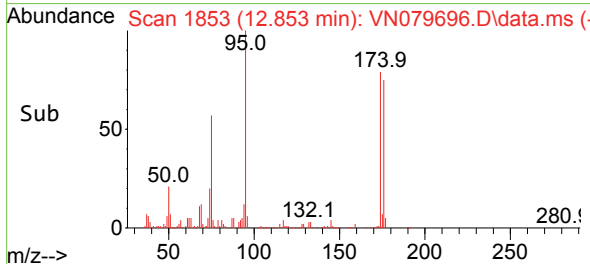
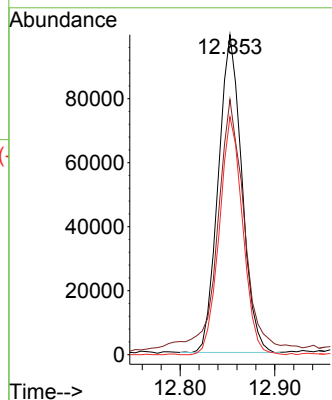
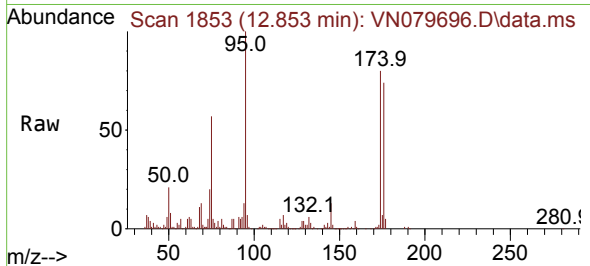




#62
4-Bromofluorobenzene
Concen: 51.199 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079696.D
Acq: 26 Oct 2023 14:43

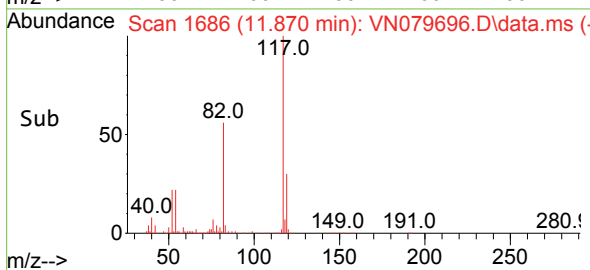
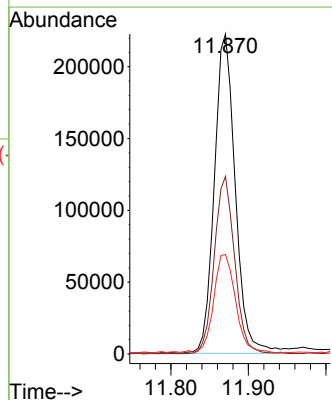
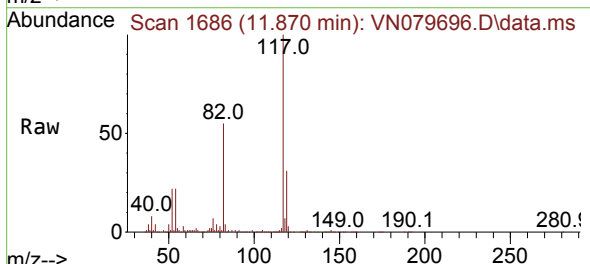
Instrument :
MSVOA_N
ClientSampleId :

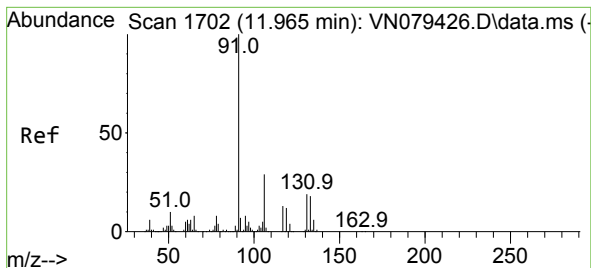
Tgt Ion: 95 Resp: 171525
Ion Ratio Lower Upper
95 100
174 91.5 0.0 143.8
176 74.1 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN079696.D
Acq: 26 Oct 2023 14:43

Tgt Ion: 117 Resp: 417648
Ion Ratio Lower Upper
117 100
82 55.5 44.0 66.0
119 30.6 25.6 38.4

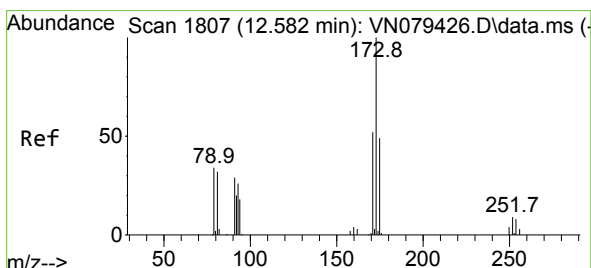
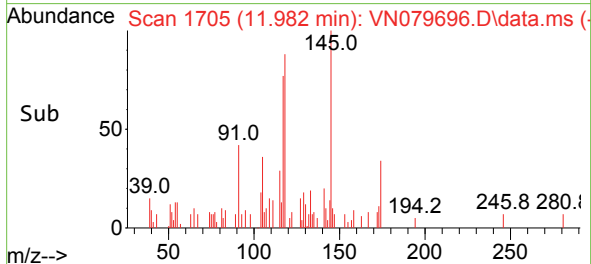
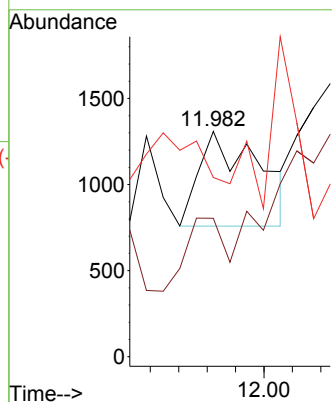
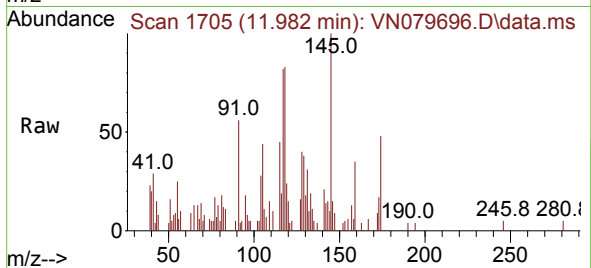




#66
1,1,1,2-Tetrachloroethane
Concen: 0.235 ug/l
RT: 11.982 min Scan# 1705
Delta R.T. 0.018 min
Lab File: VN079696.D
Acq: 26 Oct 2023 14:43

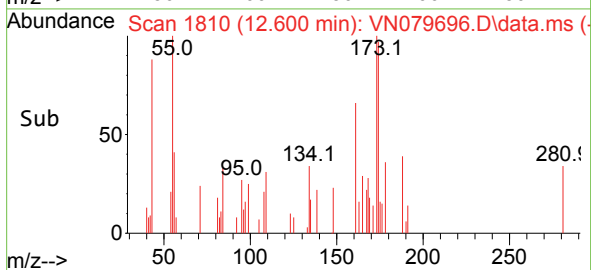
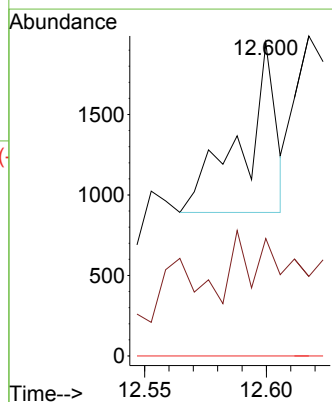
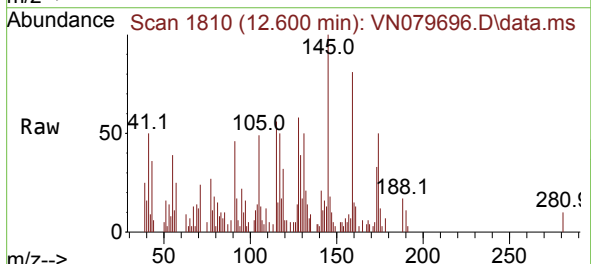
Instrument :
MSVOA_N
ClientSampleId :

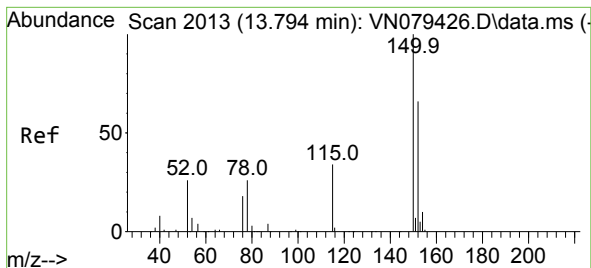
Tgt Ion:131 Resp: 802
Ion Ratio Lower Upper
131 100
133 50.6 46.4 139.1
119 0.0 34.1 102.2#



#71
Bromoform
Concen: 0.411 ug/l
RT: 12.600 min Scan# 1810
Delta R.T. 0.018 min
Lab File: VN079696.D
Acq: 26 Oct 2023 14:43

Tgt Ion:173 Resp: 1024
Ion Ratio Lower Upper
173 100
175 0.0 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: VN079696.D

Acq: 26 Oct 2023 14:43

Instrument :

MSVOA_N

ClientSampleId :

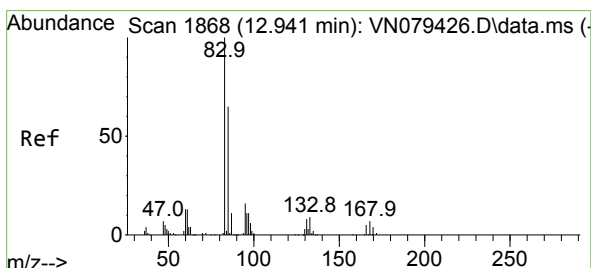
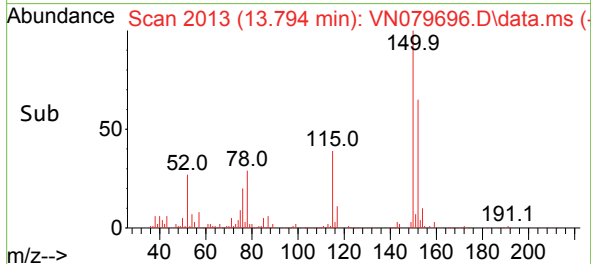
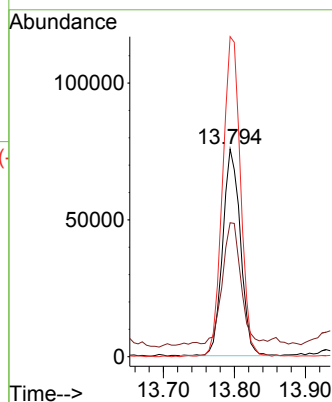
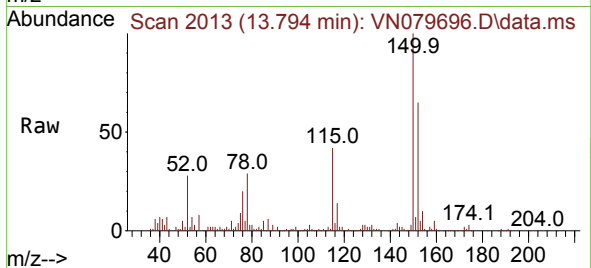
Tgt Ion:152 Resp: 131028

Ion Ratio Lower Upper

152 100

115 64.3 32.3 96.8

150 156.6 0.0 355.8



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.917 min Scan# 1864

Delta R.T. -0.024 min

Lab File: VN079696.D

Acq: 26 Oct 2023 14:43

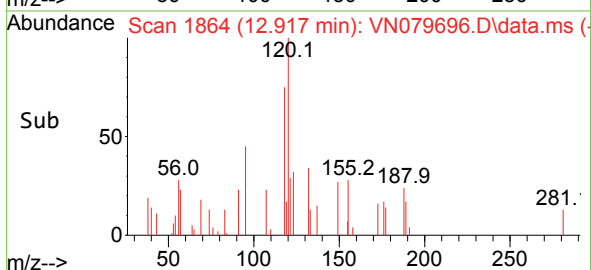
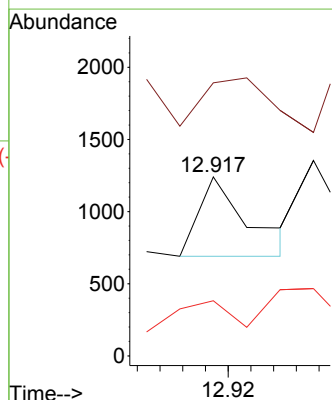
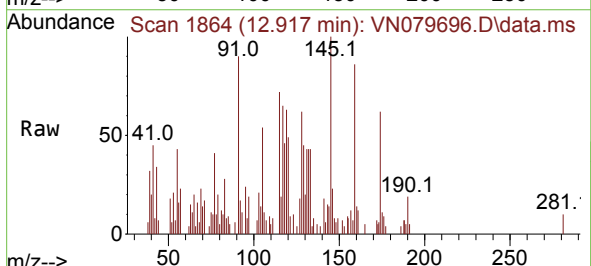
Tgt Ion: 83 Resp: 334

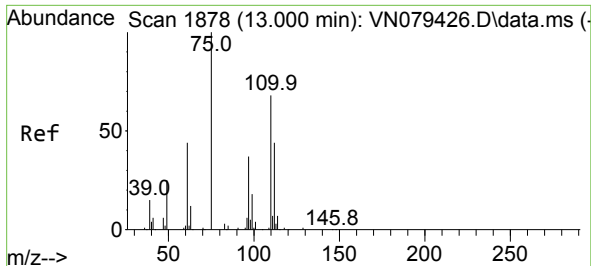
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 115.3 31.9 95.7#

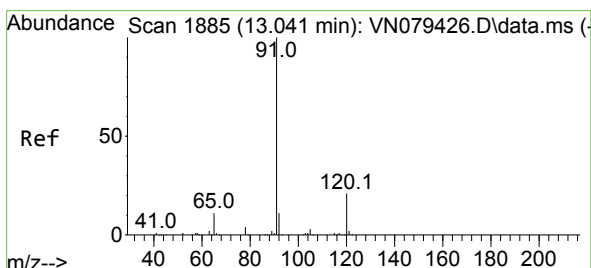
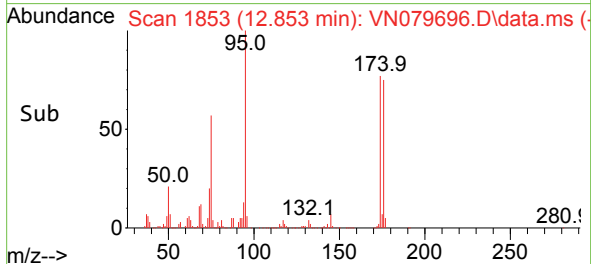
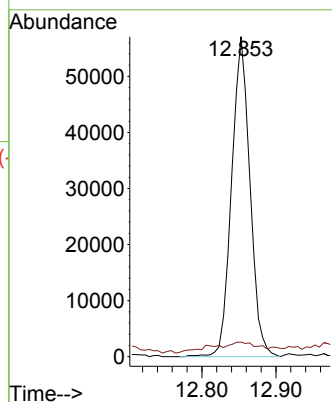
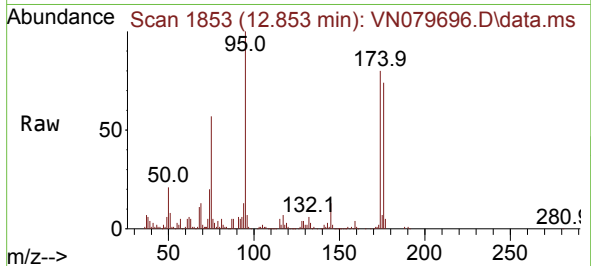




#76
1,2,3-Trichloropropane
Concen: 25.995 ug/l
RT: 12.853 min Scan# 1846
Delta R.T. -0.147 min
Lab File: VN079696.D
Acq: 26 Oct 2023 14:43

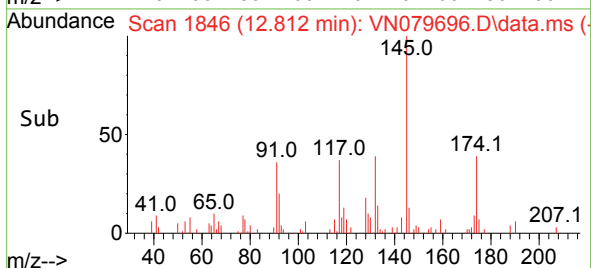
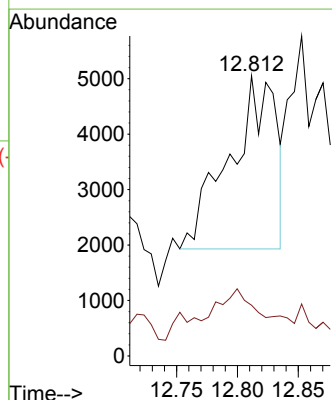
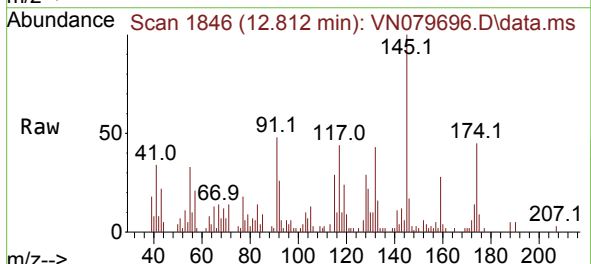
Instrument :
MSVOA_N
ClientSampleId :

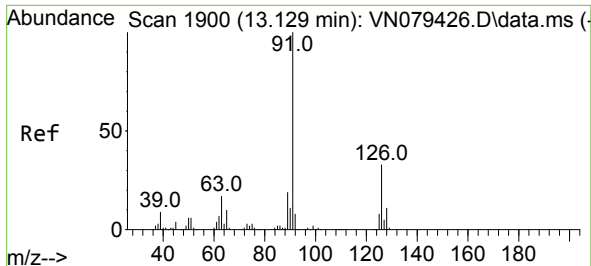
Tgt Ion: 75 Resp: 98207
Ion Ratio Lower Upper
75 100
77 4.2 84.5 253.5#



#78
n-propylbenzene
Concen: 0.599 ug/l
RT: 12.812 min Scan# 1846
Delta R.T. -0.230 min
Lab File: VN079696.D
Acq: 26 Oct 2023 14:43

Tgt Ion: 91 Resp: 8257
Ion Ratio Lower Upper
91 100
120 14.3 11.5 34.4

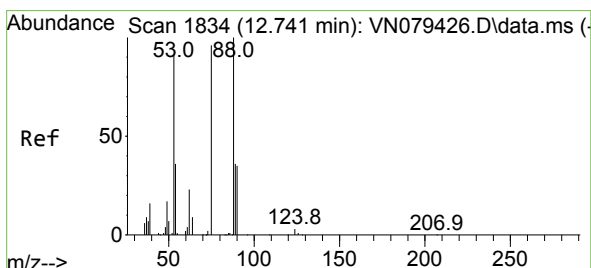
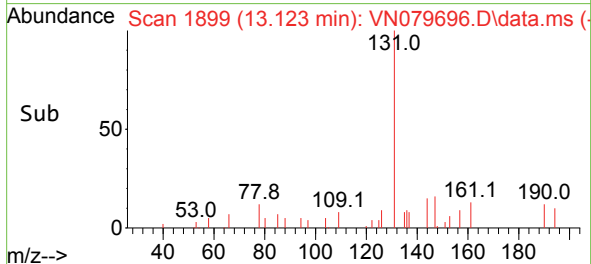
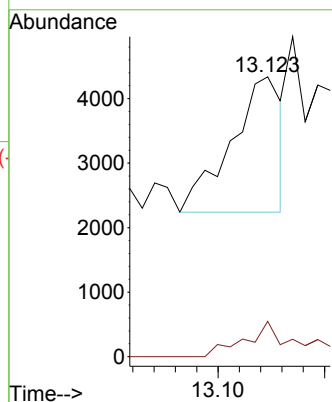
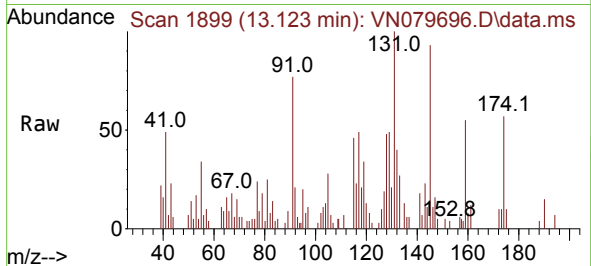




#79
2-Chlorotoluene
Concen: 0.390 ug/l
RT: 13.123 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN079696.D
Acq: 26 Oct 2023 14:43

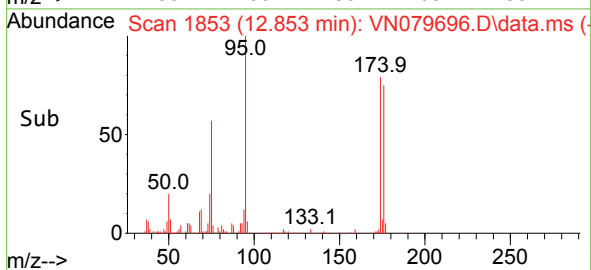
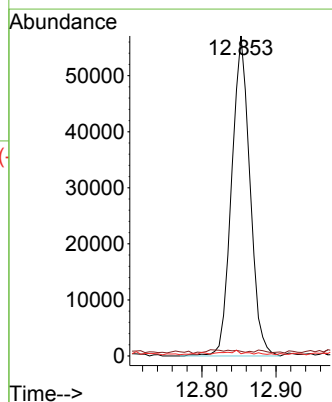
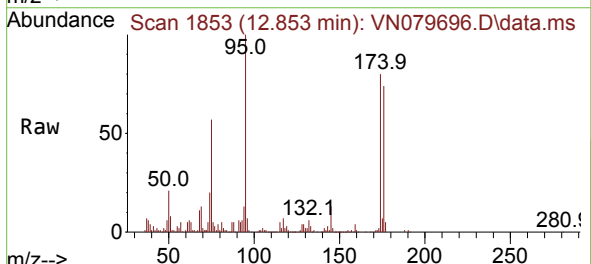
Instrument :
MSVOA_N
ClientSampleId :

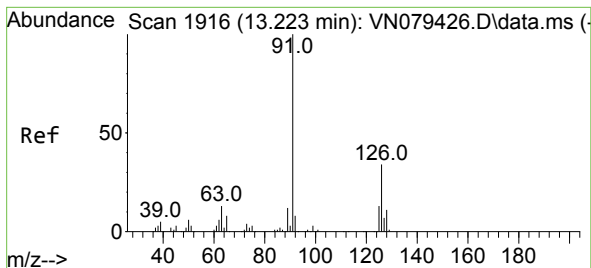
Tgt Ion: 91 Resp: 3443
Ion Ratio Lower Upper
91 100
126 26.5 16.3 48.8



#81
trans-1,4-Dichloro-2-butene
Concen: 75.426 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN079696.D
Acq: 26 Oct 2023 14:43

Tgt Ion: 75 Resp: 98207
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.9 38.8 58.2#

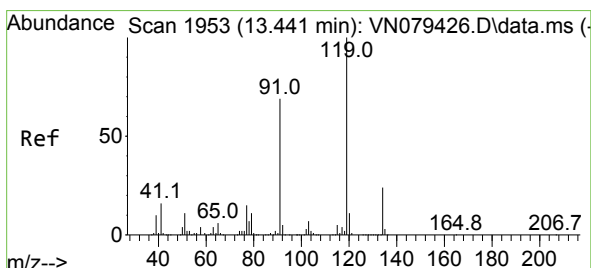
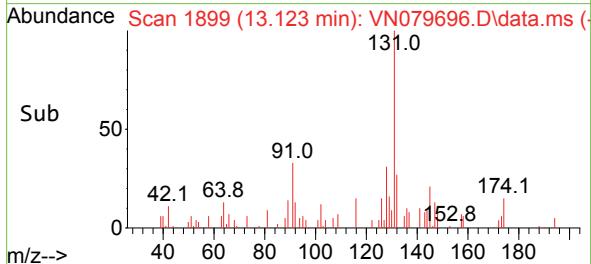
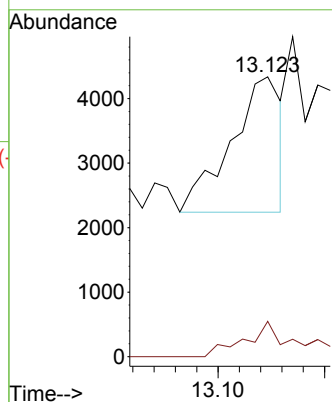
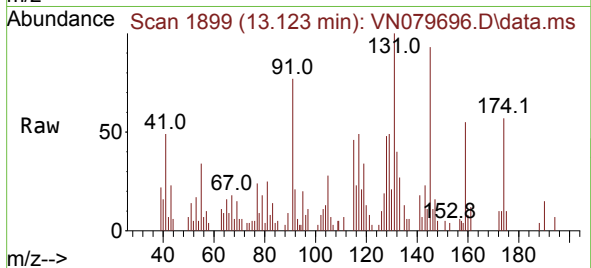




#82
4-Chlorotoluene
Concen: 0.410 ug/l
RT: 13.123 min Scan# 11
Delta R.T. -0.100 min
Lab File: VN079696.D
Acq: 26 Oct 2023 14:43

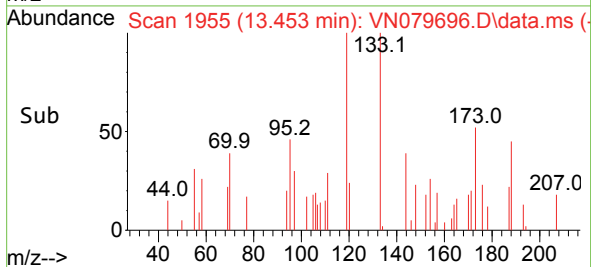
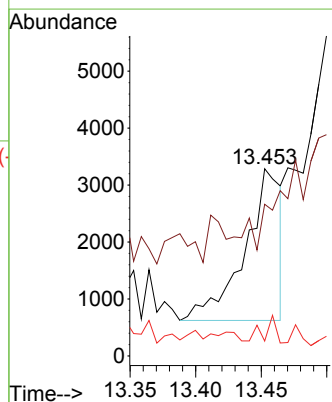
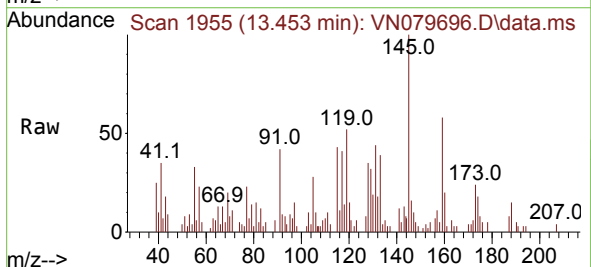
Instrument :
MSVOA_N
ClientSampleId :

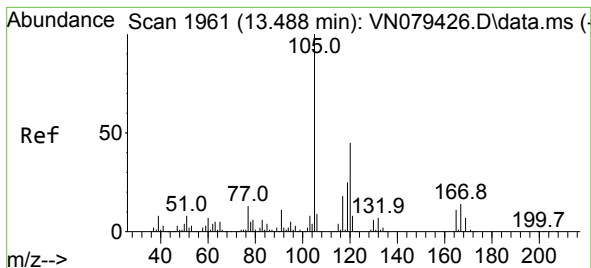
Tgt Ion: 91 Resp: 3443
Ion Ratio Lower Upper
91 100
126 26.5 16.7 50.0



#83
tert-Butylbenzene
Concen: 0.643 ug/l
RT: 13.453 min Scan# 1955
Delta R.T. 0.012 min
Lab File: VN079696.D
Acq: 26 Oct 2023 14:43

Tgt Ion: 119 Resp: 5066
Ion Ratio Lower Upper
119 100
91 0.0 33.9 101.7#
134 5.5 13.2 39.6#





#84

1,2,4-Trimethylbenzene

Concen: 3.029 ug/l

RT: 13.523 min Scan# 1961

Delta R.T. 0.035 min

Lab File: VN079696.D

Acq: 26 Oct 2023 14:43

Instrument :

MSVOA_N

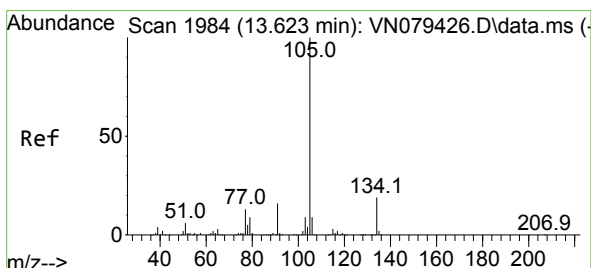
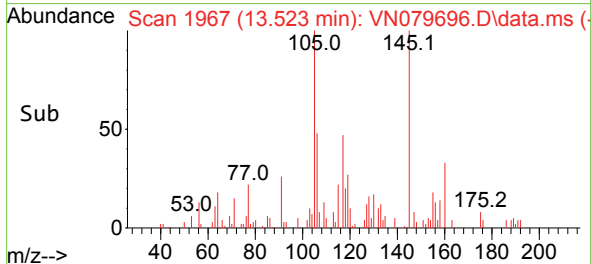
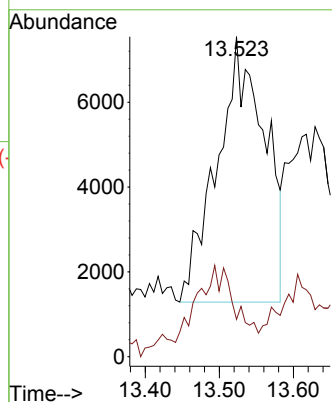
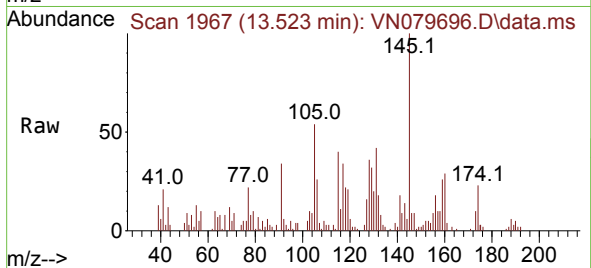
ClientSampleId :

Tgt Ion:105 Resp: 27786

Ion Ratio Lower Upper

105 100

120 0.0 22.0 66.0#



#85

sec-Butylbenzene

Concen: 0.395 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.170 min

Lab File: VN079696.D

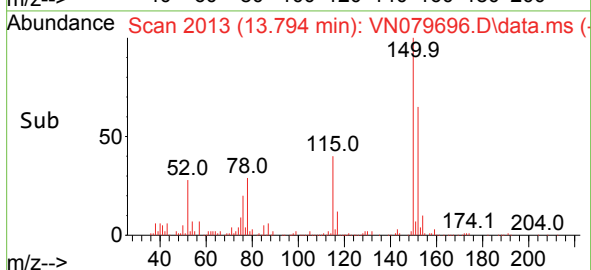
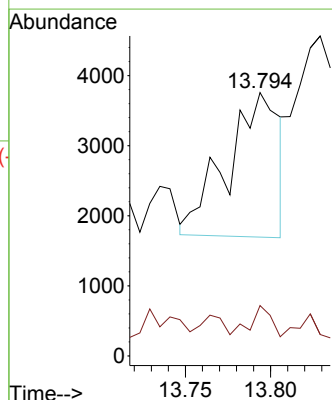
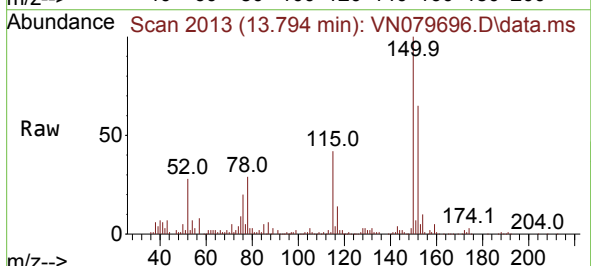
Acq: 26 Oct 2023 14:43

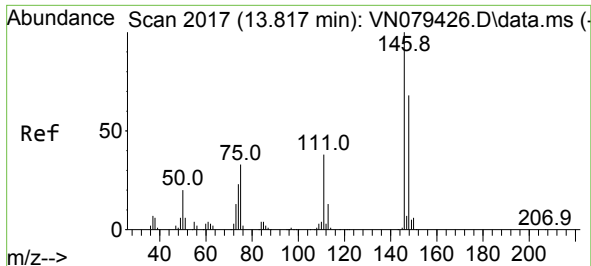
Tgt Ion:105 Resp: 4334

Ion Ratio Lower Upper

105 100

134 19.5 9.8 29.3

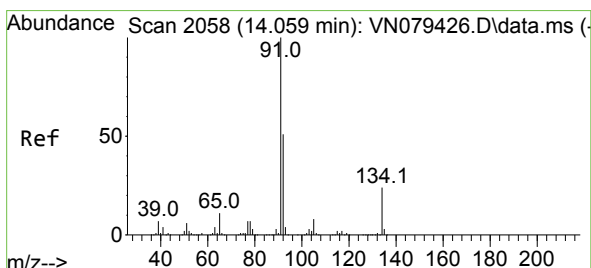
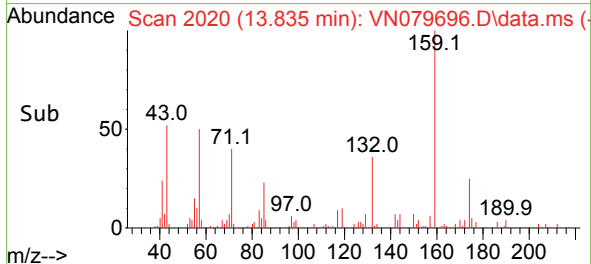
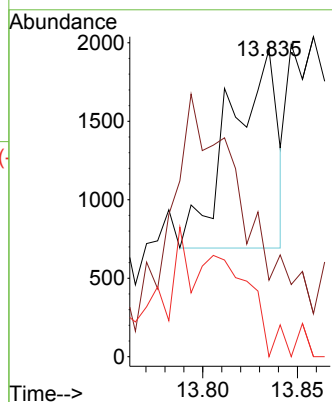
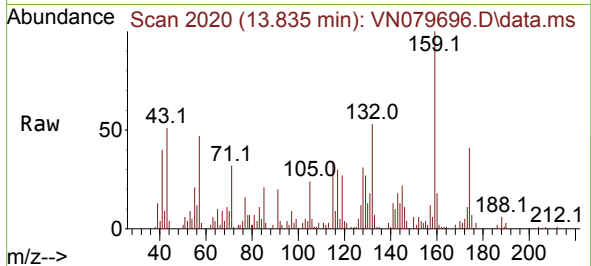




#88
1,4-Dichlorobenzene
Concen: 0.447 ug/l
RT: 13.835 min Scan# 2017
Delta R.T. 0.018 min
Lab File: VN079696.D
Acq: 26 Oct 2023 14:43

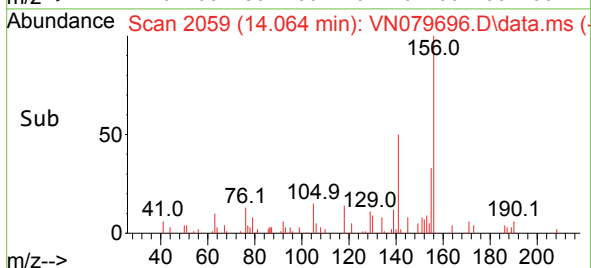
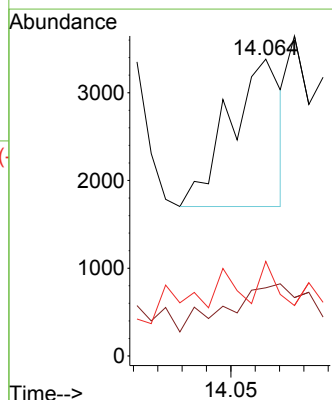
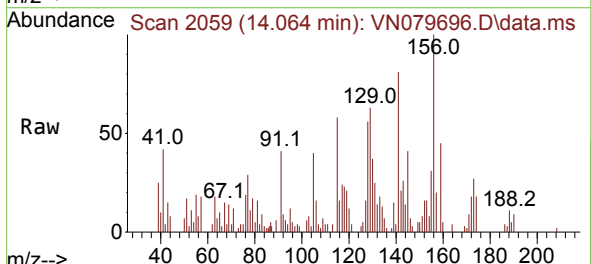
Instrument :
MSVOA_N
ClientSampleId :

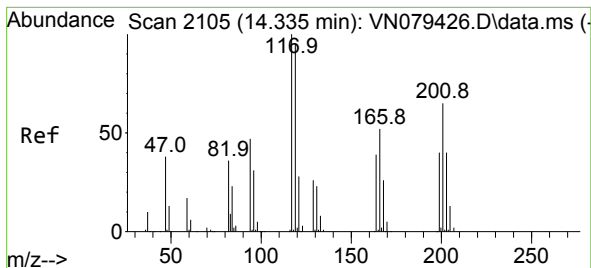
Tgt Ion:146 Resp: 2189
Ion Ratio Lower Upper
146 100
111 0.0 20.6 61.8#
148 0.0 31.6 94.8#



#89
n-Butylbenzene
Concen: 0.368 ug/l
RT: 14.064 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VN079696.D
Acq: 26 Oct 2023 14:43

Tgt Ion: 91 Resp: 2474
Ion Ratio Lower Upper
91 100
92 51.0 26.4 79.0
134 0.0 12.6 37.6#





#90

Hexachloroethane

Concen: 0.619 ug/l

RT: 14.323 min Scan# 2105

Delta R.T. -0.012 min

Lab File: VN079696.D

Acq: 26 Oct 2023 14:43

Instrument :

MSVOA_N

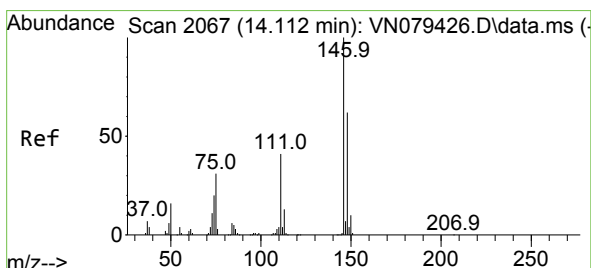
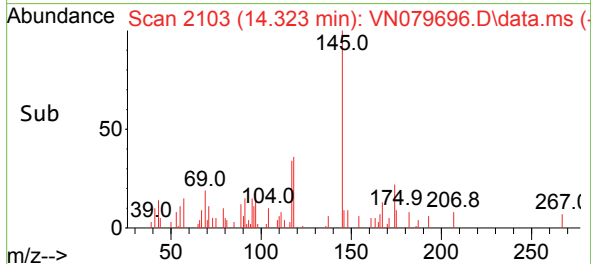
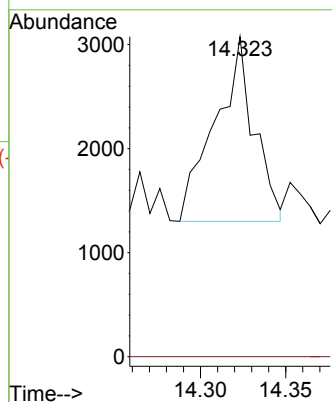
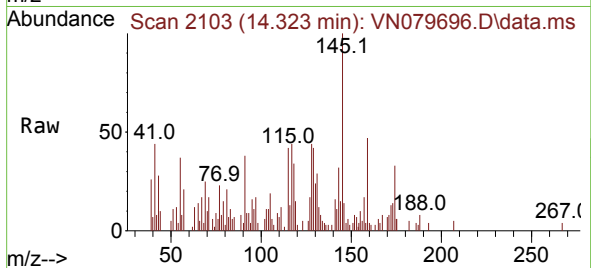
ClientSampleId :

Tgt Ion:117 Resp: 2825

Ion Ratio Lower Upper

117 100

201 0.0 29.3 88.0#



#91

1,2-Dichlorobenzene

Concen: 0.690 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.006 min

Lab File: VN079696.D

Acq: 26 Oct 2023 14:43

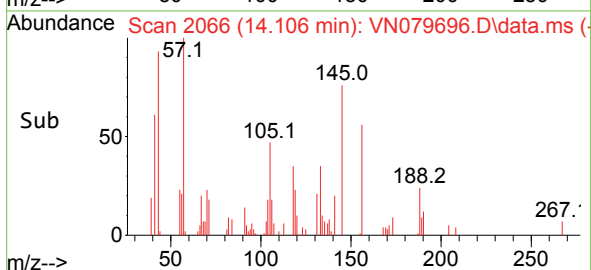
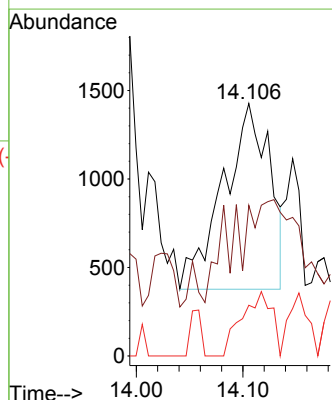
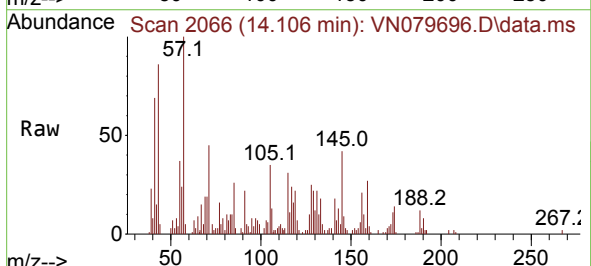
Tgt Ion:146 Resp: 3190

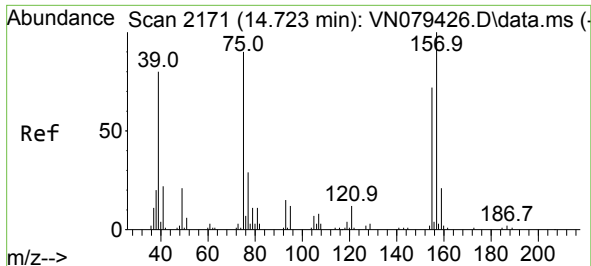
Ion Ratio Lower Upper

146 100

111 0.0 22.0 66.0#

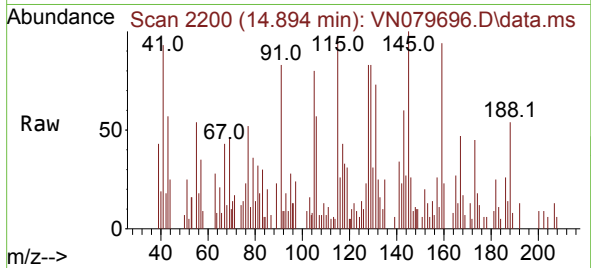
148 0.0 31.8 95.3#



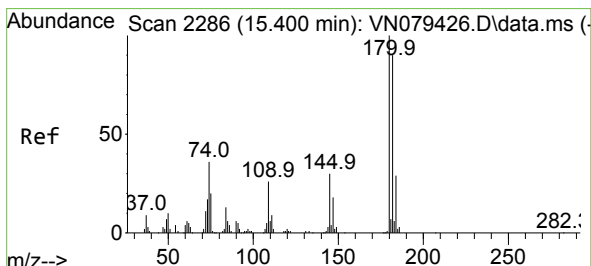
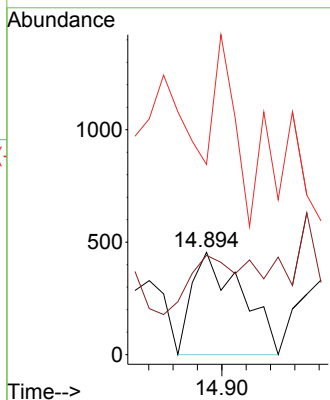
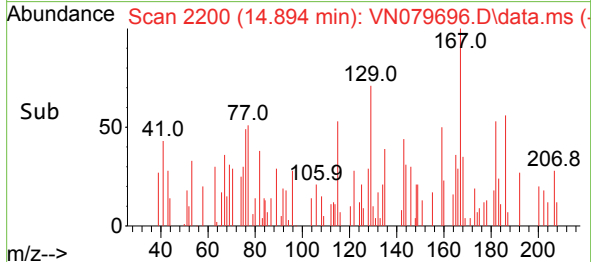


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.918 ug/l
RT: 14.894 min Scan# 2171
Delta R.T. 0.170 min
Lab File: VN079696.D
Acq: 26 Oct 2023 14:43

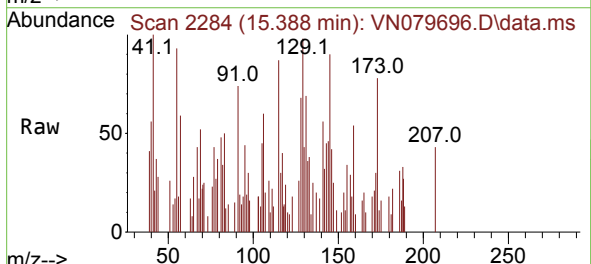
Instrument :
MSVOA_N
ClientSampleId :



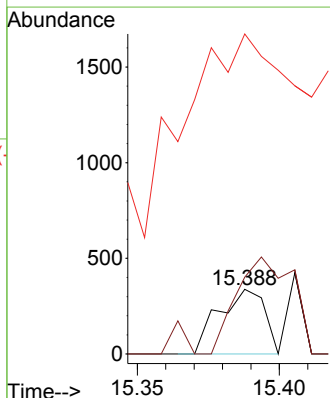
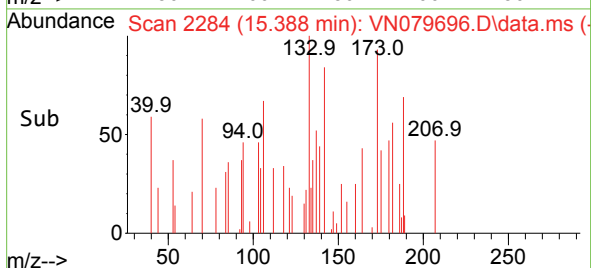
Tgt Ion: 75 Resp: 647
Ion Ratio Lower Upper
75 100
155 50.1 39.1 117.2
157 73.0 50.3 150.9

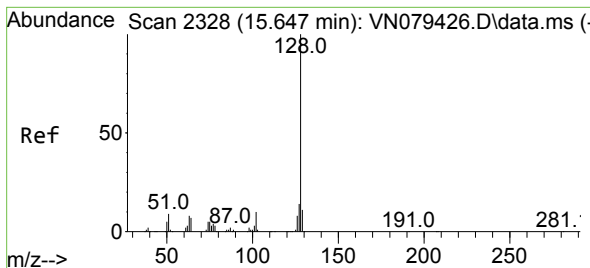


#93
1,2,4-Trichlorobenzene
Concen: 0.265 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. -0.012 min
Lab File: VN079696.D
Acq: 26 Oct 2023 14:43



Tgt Ion: 180 Resp: 380
Ion Ratio Lower Upper
180 100
182 182.9 46.1 138.2#
145 755.0 16.6 49.8#





#95

Naphthalene

Concen: 1.873 ug/l

RT: 15.647 min Scan# 2328

Delta R.T. -0.000 min

Lab File: VN079696.D

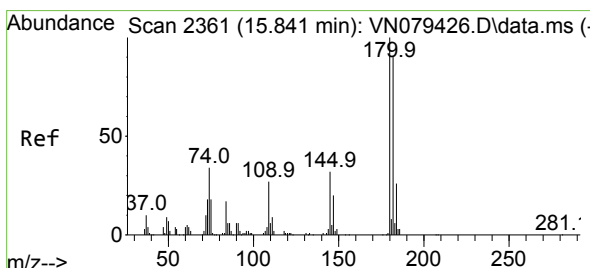
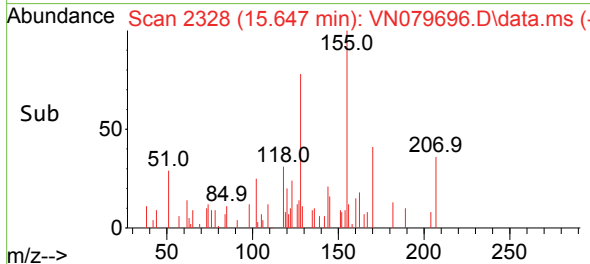
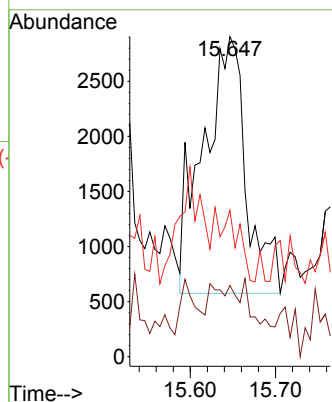
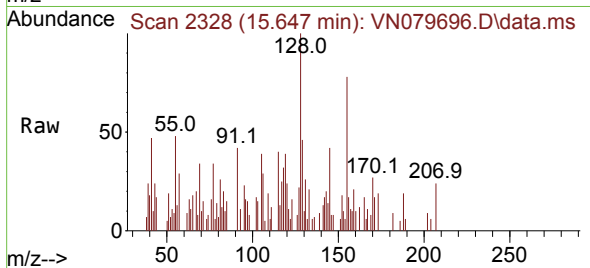
Acq: 26 Oct 2023 14:43

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:128 Resp: 8192
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.0 15.0#
 129 0.0 8.7 13.1#



#96

1,2,3-Trichlorobenzene

Concen: 0.434 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. -0.000 min

Lab File: VN079696.D

Acq: 26 Oct 2023 14:43

Tgt Ion:180 Resp: 741
 Ion Ratio Lower Upper
 180 100
 182 103.2 46.2 138.6
 145 539.9 17.5 52.6#

