

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081023\
 Data File : VN078826.D
 Acq On : 10 Aug 2023 10:23
 Operator : JC\MD
 Sample : VN0910WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

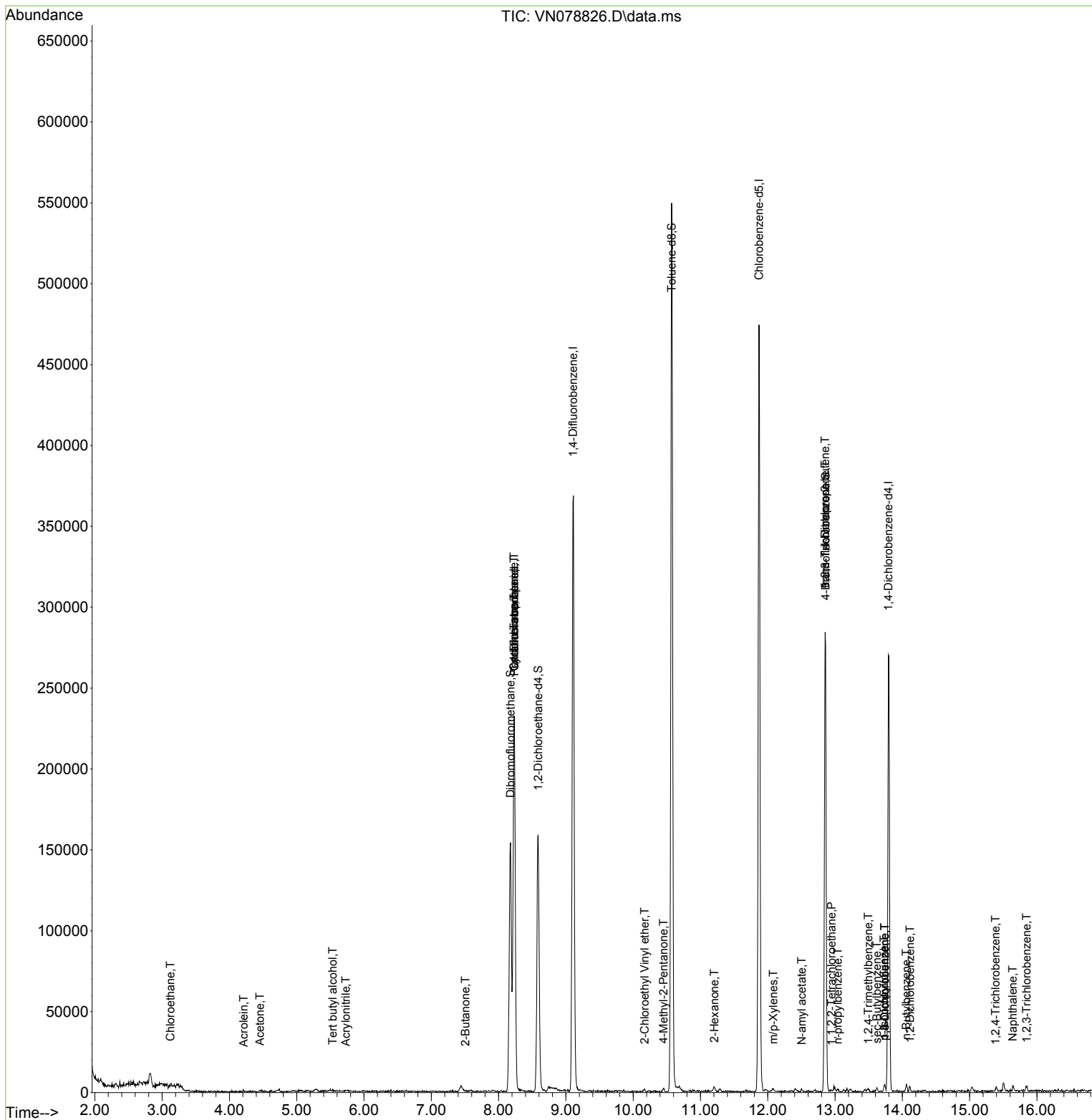
Quant Time: Aug 10 23:46:47 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080723W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 08 05:03:52 2023
 Response via : Initial Calibration

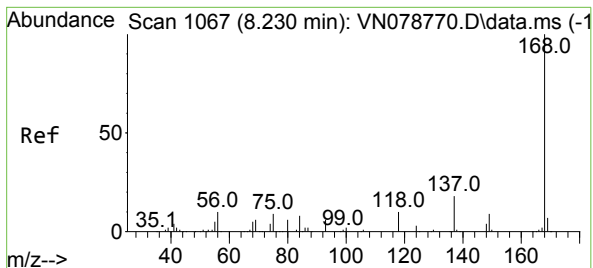
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.236	168	164235	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	308809	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	261075	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	69465	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	128584	52.225	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 104.440%	
35) Dibromofluoromethane	8.177	113	105027	50.362	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.720%	
50) Toluene-d8	10.571	98	368274	47.988	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 95.980%	
62) 4-Bromofluorobenzene	12.859	95	96785	42.199	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 84.400%	
Target Compounds						
					Qvalue	
6) Chloroethane	3.124	64	408	0.232	ug/l #	43
11) Tert butyl alcohol	5.536	59	187	0.433	ug/l #	72
13) Acrolein	4.212	56	122	0.334	ug/l #	34
15) Acrylonitrile	5.730	53	393	0.349	ug/l #	10
16) Acetone	4.453	43	651	0.687	ug/l #	40
25) 2-Butanone	7.506	43	501	0.312	ug/l #	37
31) Cyclohexane	8.230	56	4498	1.243	ug/l #	52
36) 1,1-Dichloropropene	8.230	75	16454	5.086	ug/l #	44
38) Carbon Tetrachloride	8.230	117	18534	5.557	ug/l #	15
51) 4-Methyl-2-Pentanone	10.453	43	1343	0.378	ug/l #	59
58) 2-Chloroethyl Vinyl ether	10.171	63	565	0.457	ug/l #	69
59) 2-Hexanone	11.206	43	2696	1.072	ug/l #	49
68) m/p-Xylenes	12.082	106	796	0.204	ug/l #	73
74) N-amyl acetate	12.506	43	1070	0.345	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	12.947	83	644	0.277	ug/l #	71
76) 1,2,3-Trichloropropane	12.853	75	55054	29.314	ug/l #	1
78) n-propylbenzene	13.041	91	1814	0.241	ug/l	87
81) trans-1,4-Dichloro-2-b...	12.853	75	55054	78.659	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.494	105	1148	0.218	ug/l	79
85) sec-Butylbenzene	13.623	105	2065	0.346	ug/l	92
86) p-Isopropyltoluene	13.729	119	1788	0.377	ug/l #	85
87) 1,3-Dichlorobenzene	13.741	146	1152	0.450	ug/l	85
88) 1,4-Dichlorobenzene	13.741	146	1152	0.454	ug/l	87
89) n-Butylbenzene	14.059	91	2944	0.827	ug/l	88
91) 1,2-Dichlorobenzene	14.117	146	1251	0.507	ug/l	84
93) 1,2,4-Trichlorobenzene	15.388	180	478	0.689	ug/l #	20
94) Hexachlorobutadiene	15.500	225	1284	Below Cal		81
95) Naphthalene	15.641	128	3027	1.308	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.847	180	1502	1.819	ug/l #	50

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

Quant Time: Aug 10 23:46:47 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N080723W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 08 05:03:52 2023
Response via : Initial Calibration

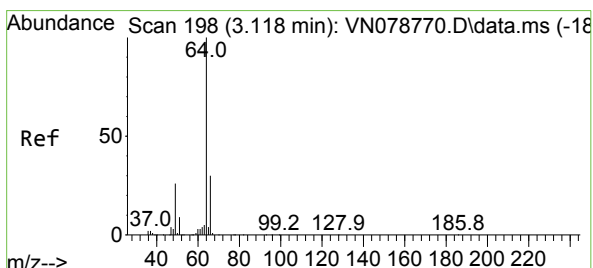
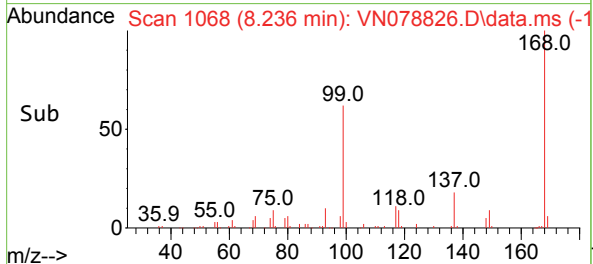
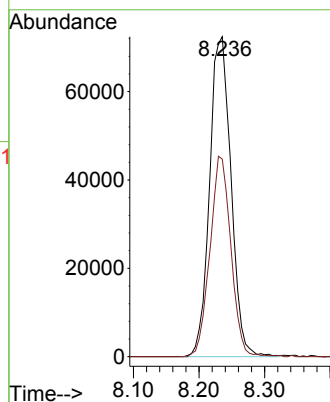
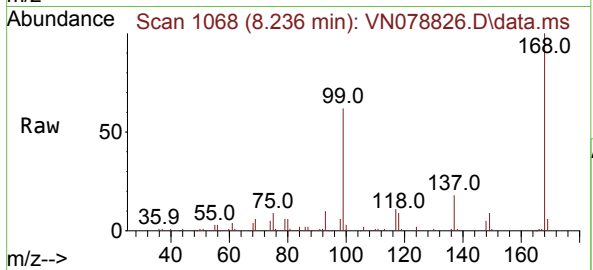




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1067
Delta R.T. 0.005 min
Lab File: VN078826.D
Acq: 10 Aug 2023 10:23

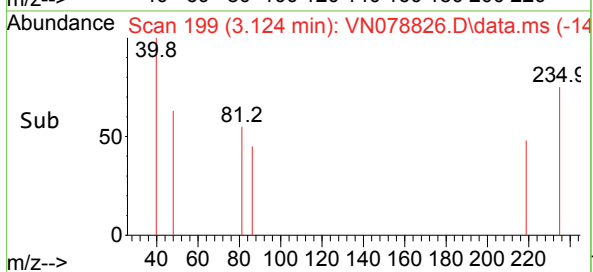
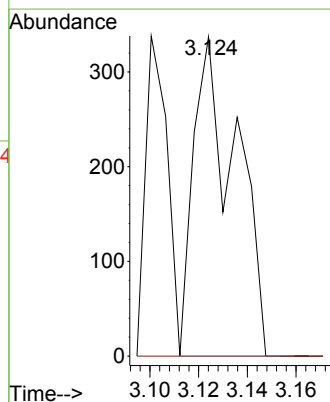
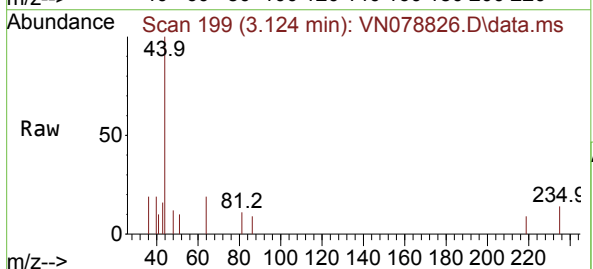
Instrument :
MSVOA_N
ClientSampleId :

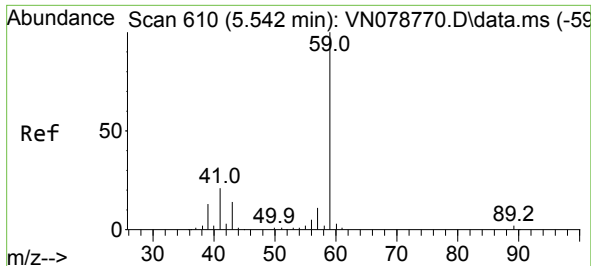
Tgt Ion:168 Resp: 164235
Ion Ratio Lower Upper
168 100
99 61.8 53.0 79.6



#6
Chloroethane
Concen: 0.232 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN078826.D
Acq: 10 Aug 2023 10:23

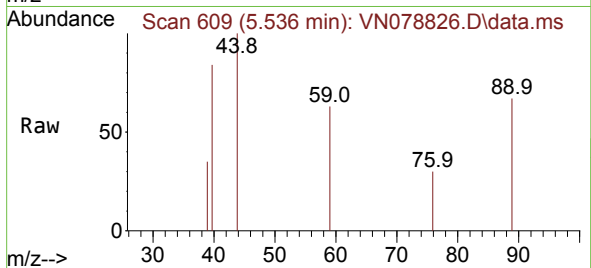
Tgt Ion: 64 Resp: 408
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



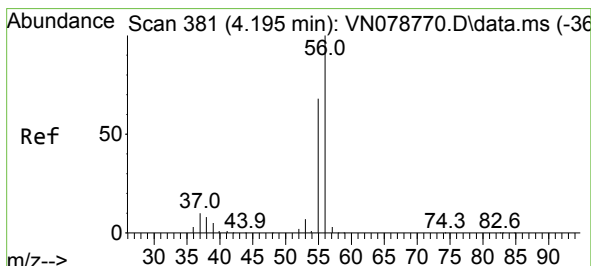
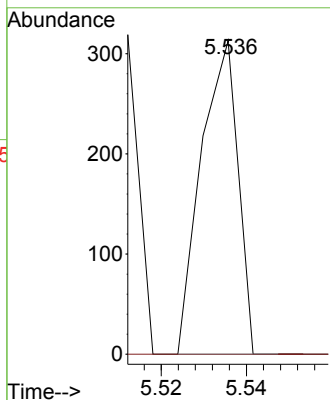
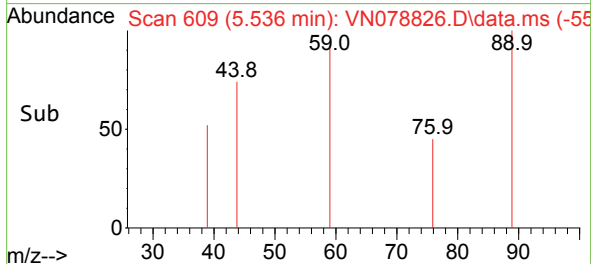


#11
Tert butyl alcohol
Concen: 0.433 ug/l
RT: 5.536 min Scan# 609
Delta R.T. -0.006 min
Lab File: VN078826.D
Acq: 10 Aug 2023 10:23

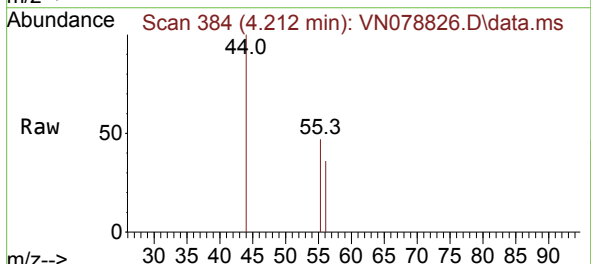
Instrument :
MSVOA_N
ClientSampleId :



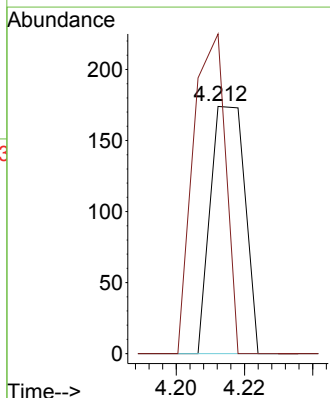
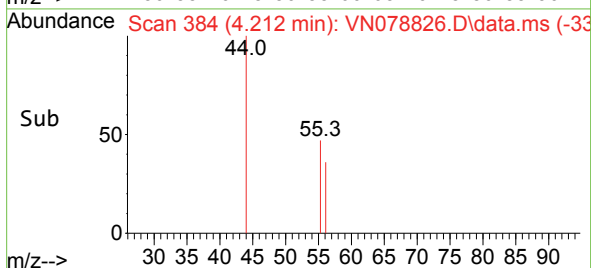
Tgt Ion: 59 Resp: 187
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

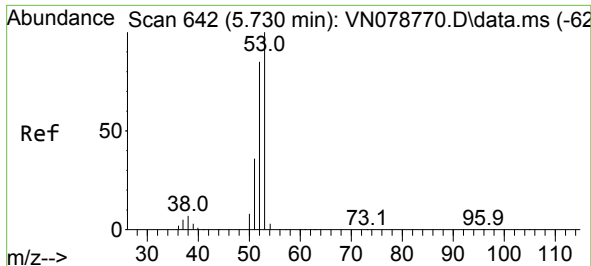


#13
Acrolein
Concen: 0.334 ug/l
RT: 4.212 min Scan# 384
Delta R.T. 0.017 min
Lab File: VN078826.D
Acq: 10 Aug 2023 10:23



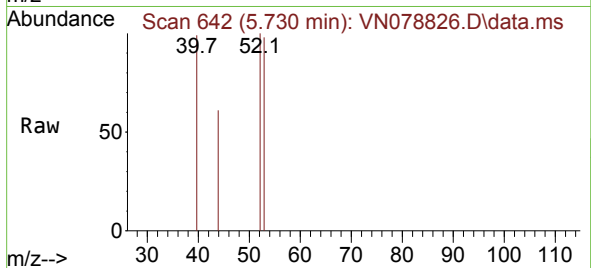
Tgt Ion: 56 Resp: 122
Ion Ratio Lower Upper
56 100
55 121.3 54.5 81.7#



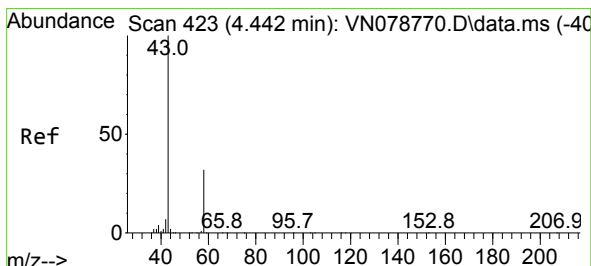
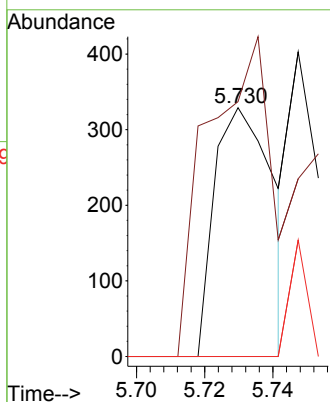
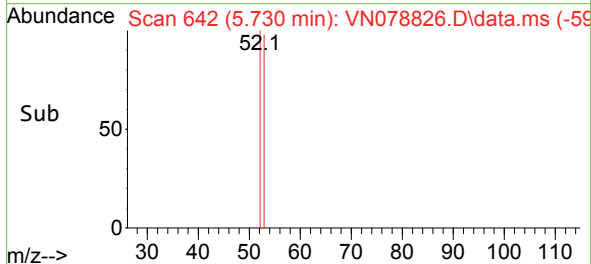


#15
Acrylonitrile
Concen: 0.349 ug/l
RT: 5.730 min Scan# 642
Delta R.T. -0.000 min
Lab File: VN078826.D
Acq: 10 Aug 2023 10:23

Instrument :
MSVOA_N
ClientSampleId :

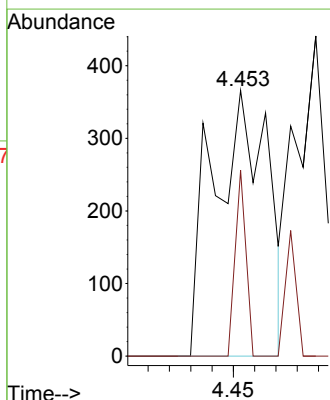
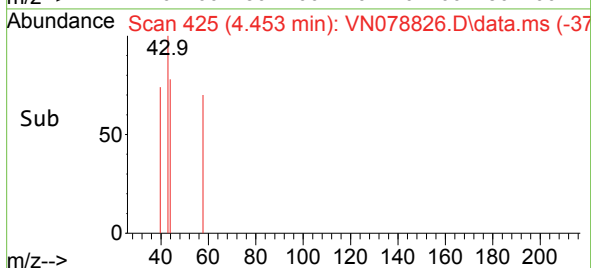
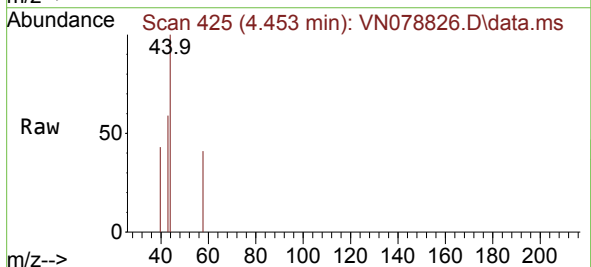


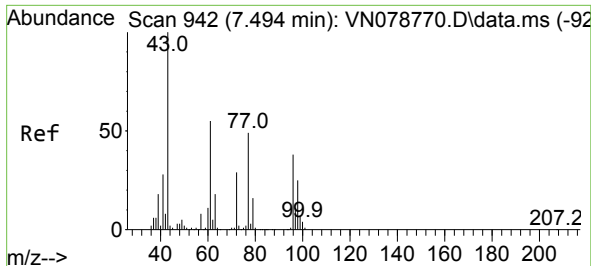
Tgt Ion: 53 Resp: 393
Ion Ratio Lower Upper
53 100
52 183.0 65.3 97.9#
51 13.7 28.9 43.3#



#16
Acetone
Concen: 0.687 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.011 min
Lab File: VN078826.D
Acq: 10 Aug 2023 10:23

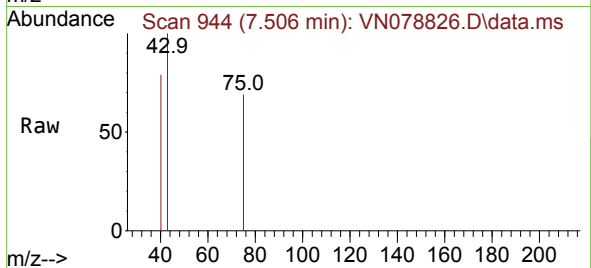
Tgt Ion: 43 Resp: 651
Ion Ratio Lower Upper
43 100
58 69.9 28.0 42.0#



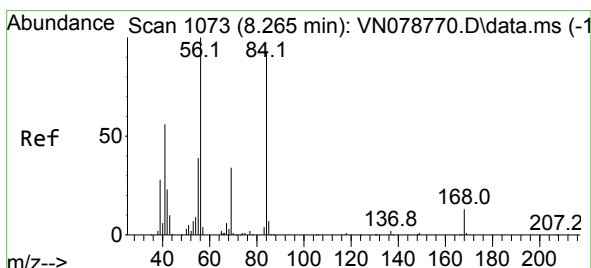
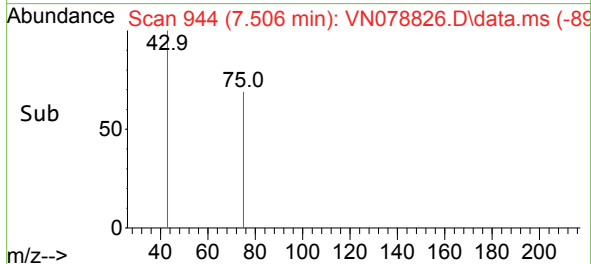
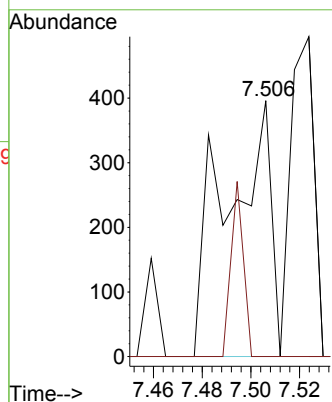


#25
2-Butanone
Concen: 0.312 ug/l
RT: 7.506 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN078826.D
Acq: 10 Aug 2023 10:23

Instrument :
MSVOA_N
ClientSampleId :

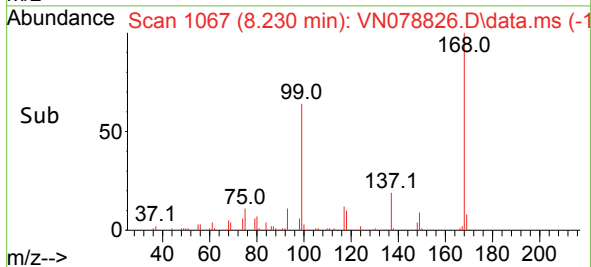
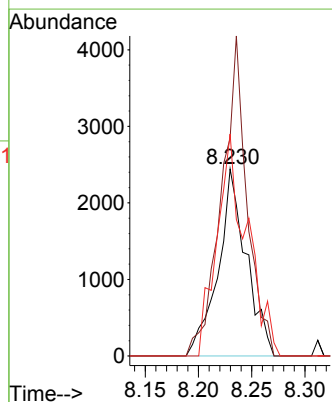
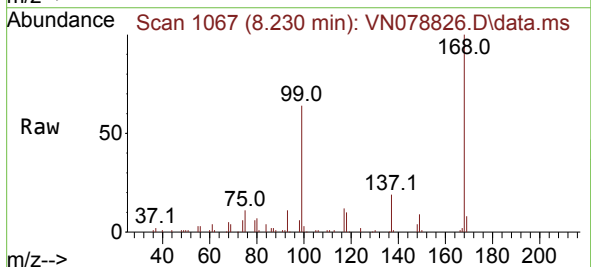


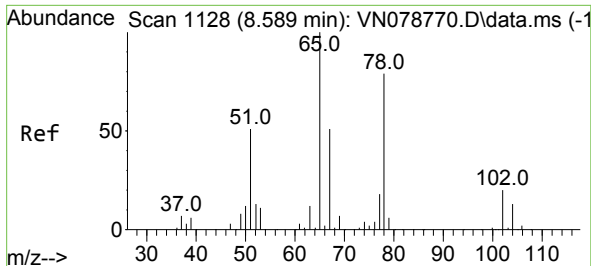
Tgt Ion: 43 Resp: 501
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#



#31
Cyclohexane
Concen: 1.243 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078826.D
Acq: 10 Aug 2023 10:23

Tgt Ion: 56 Resp: 4498
Ion Ratio Lower Upper
56 100
69 116.5 26.8 40.2#
84 118.6 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 52.225 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN078826.D

Acq: 10 Aug 2023 10:23

Instrument :

MSVOA_N

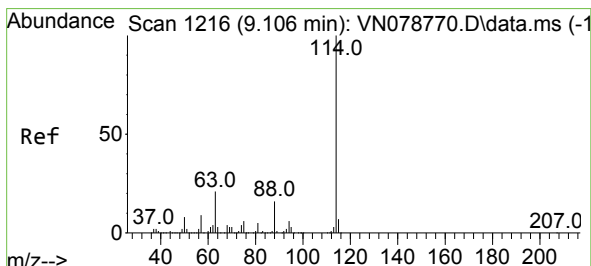
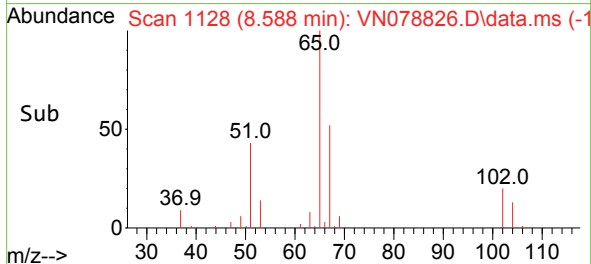
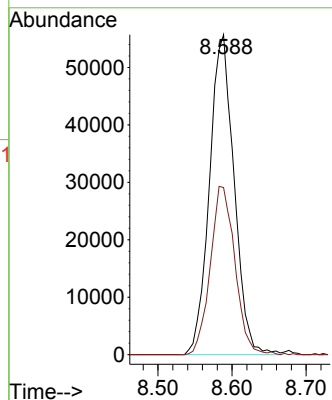
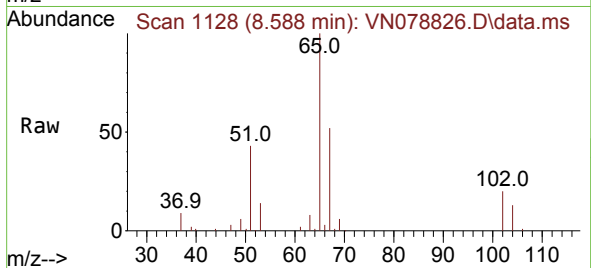
ClientSampleId :

Tgt Ion: 65 Resp: 128584

Ion Ratio Lower Upper

65 100

67 52.6 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: VN078826.D

Acq: 10 Aug 2023 10:23

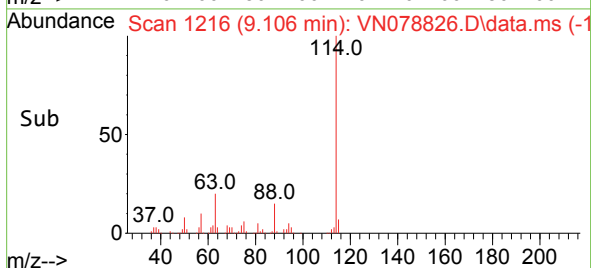
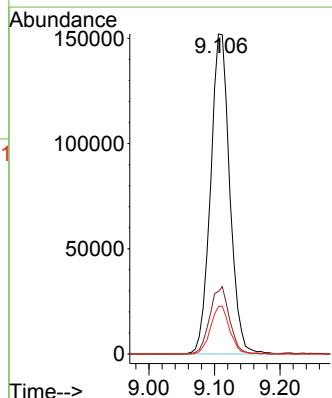
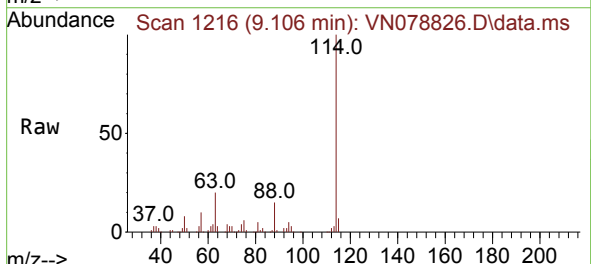
Tgt Ion: 114 Resp: 308809

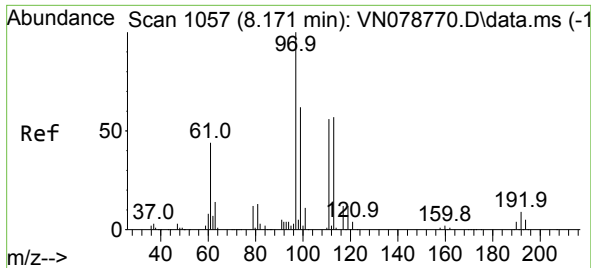
Ion Ratio Lower Upper

114 100

63 19.5 0.0 36.4

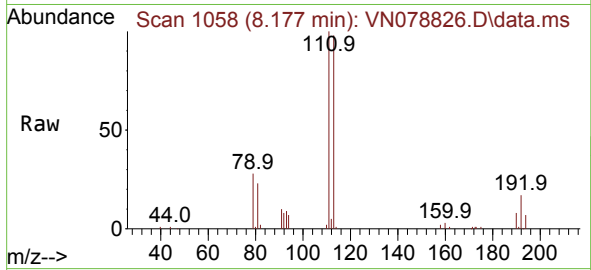
88 14.8 0.0 30.6



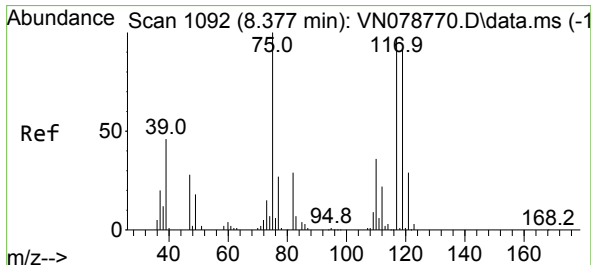
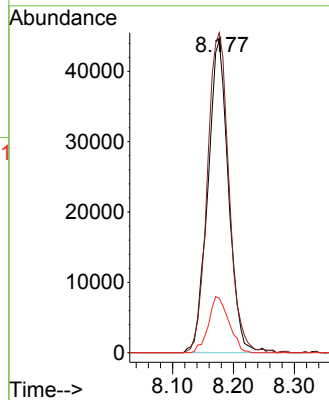
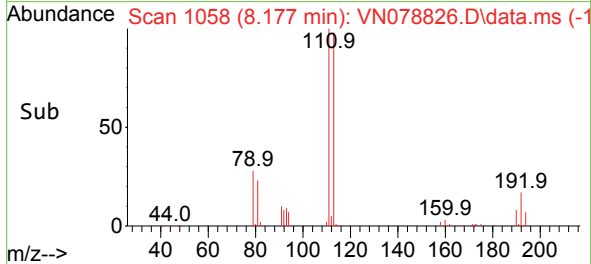


#35
 Dibromofluoromethane
 Concen: 50.362 ug/l
 RT: 8.177 min Scan# 1057
 Delta R.T. 0.006 min
 Lab File: VN078826.D
 Acq: 10 Aug 2023 10:23

Instrument :
 MSVOA_N
 ClientSampleId :

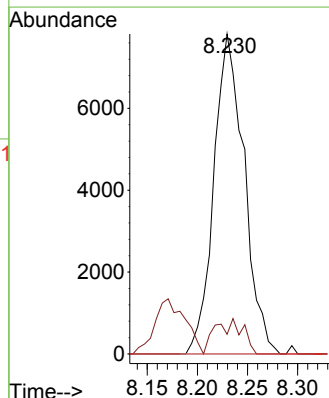
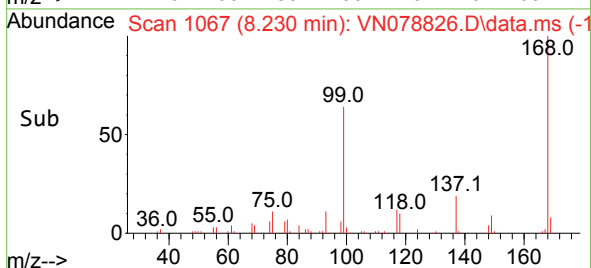
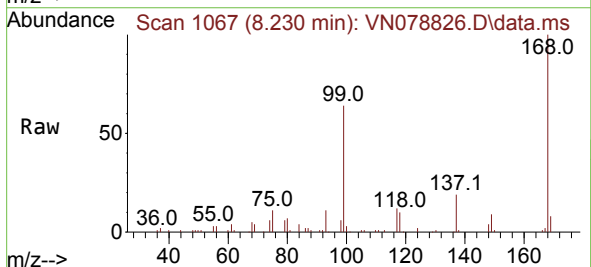


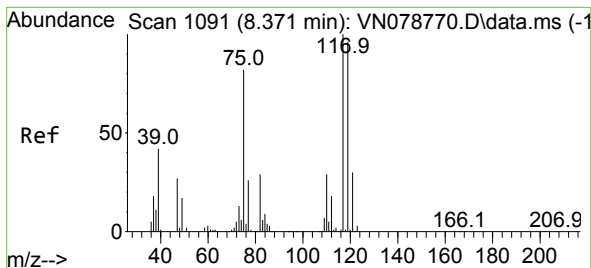
Tgt Ion: 113 Resp: 105027
 Ion Ratio Lower Upper
 113 100
 111 106.8 82.6 123.8
 192 17.7 12.7 19.1



#36
 1,1-Dichloropropene
 Concen: 5.086 ug/l
 RT: 8.230 min Scan# 1067
 Delta R.T. -0.147 min
 Lab File: VN078826.D
 Acq: 10 Aug 2023 10:23

Tgt Ion: 75 Resp: 16454
 Ion Ratio Lower Upper
 75 100
 110 5.1 19.1 57.3#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.557 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

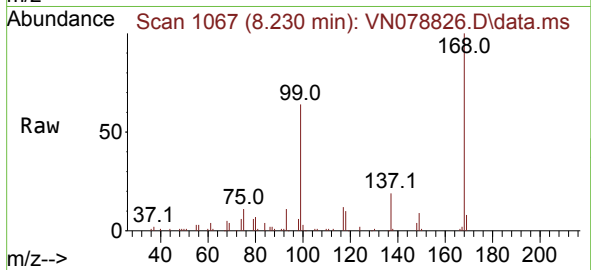
Lab File: VN078826.D

Acq: 10 Aug 2023 10:23

Instrument :

MSVOA_N

ClientSampleId :



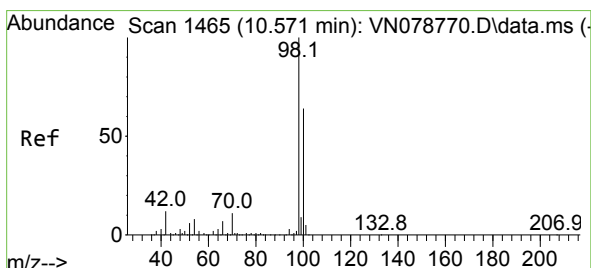
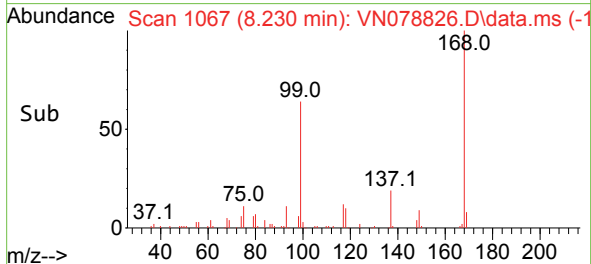
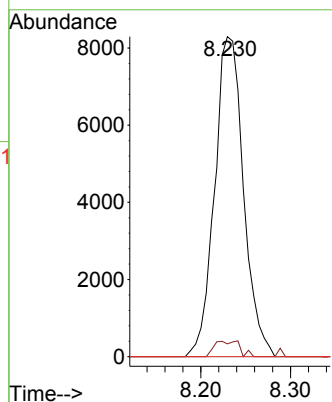
Tgt Ion:117 Resp: 18534

Ion Ratio Lower Upper

117 100

119 4.0 77.3 115.9#

121 0.0 23.3 34.9#



#50

Toluene-d8

Concen: 47.988 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078826.D

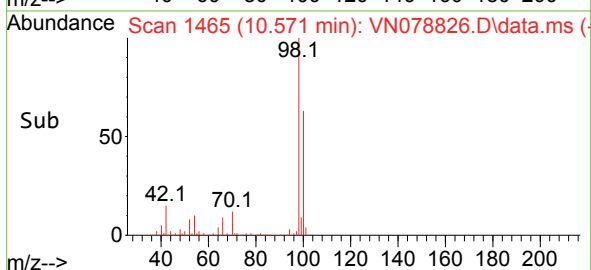
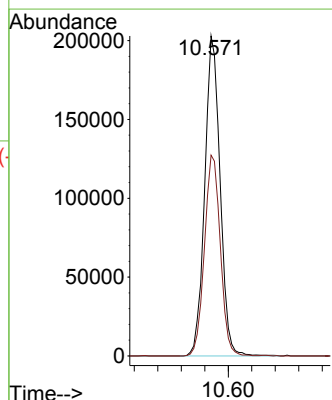
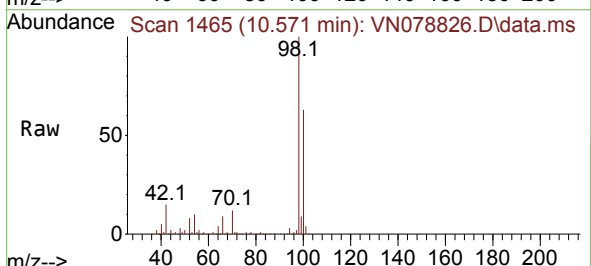
Acq: 10 Aug 2023 10:23

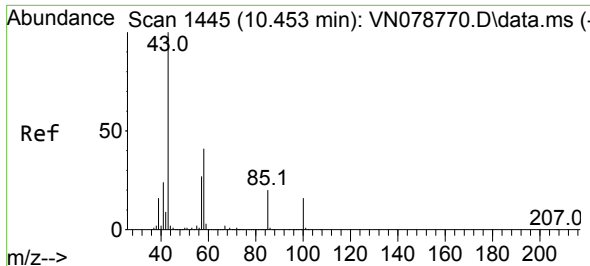
Tgt Ion: 98 Resp: 368274

Ion Ratio Lower Upper

98 100

100 64.7 52.0 78.0

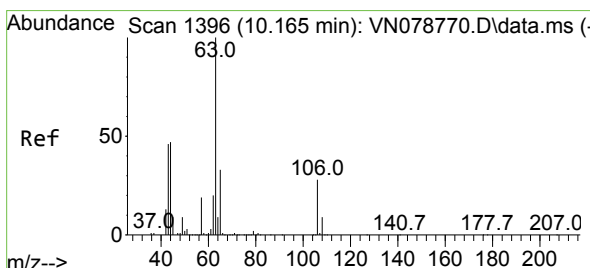
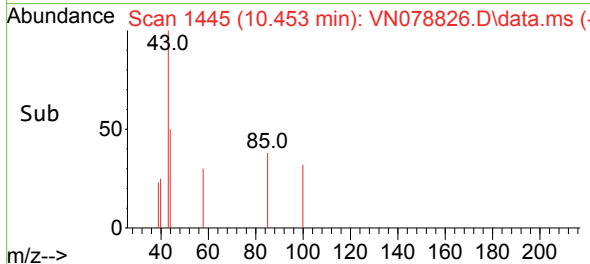
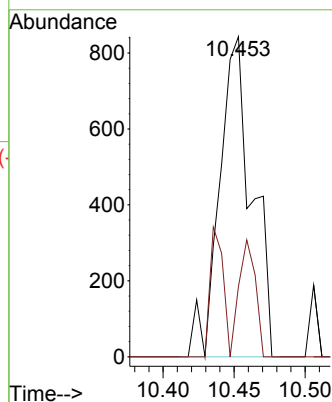
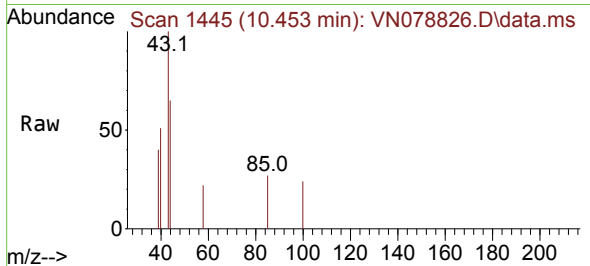




#51
4-Methyl-2-Pentanone
Concen: 0.378 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078826.D
Acq: 10 Aug 2023 10:23

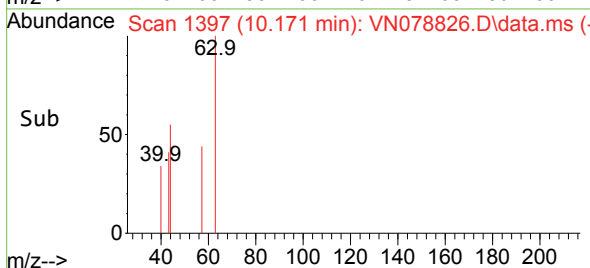
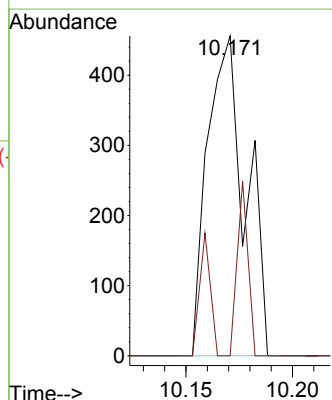
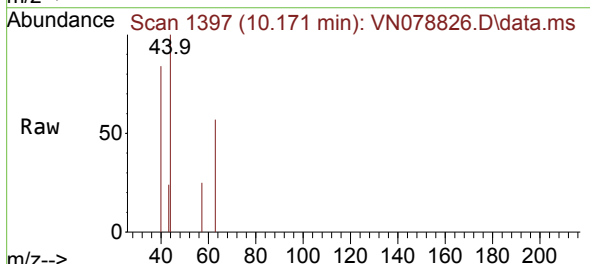
Instrument :
MSVOA_N
ClientSampleId :

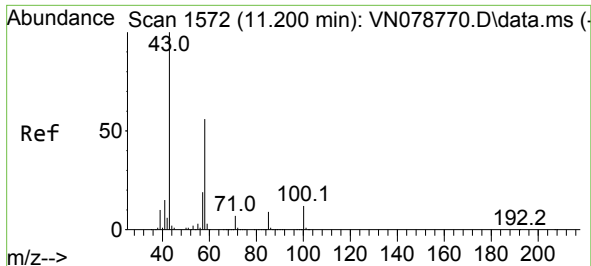
Tgt Ion: 43 Resp: 1343
Ion Ratio Lower Upper
43 100
58 18.6 36.6 54.8#



#58
2-Chloroethyl Vinyl ether
Concen: 0.457 ug/l
RT: 10.171 min Scan# 1397
Delta R.T. 0.006 min
Lab File: VN078826.D
Acq: 10 Aug 2023 10:23

Tgt Ion: 63 Resp: 565
Ion Ratio Lower Upper
63 100
106 15.6 26.2 39.4#

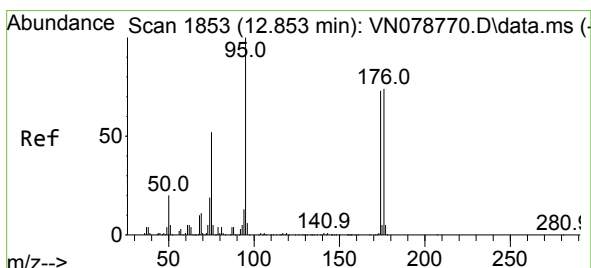
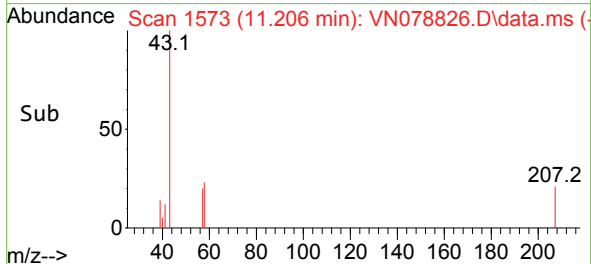
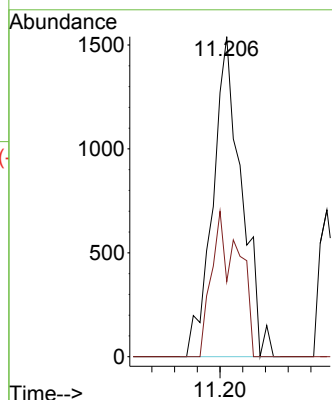
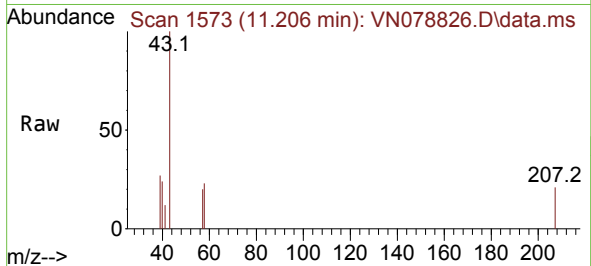




#59
2-Hexanone
Concen: 1.072 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078826.D
Acq: 10 Aug 2023 10:23

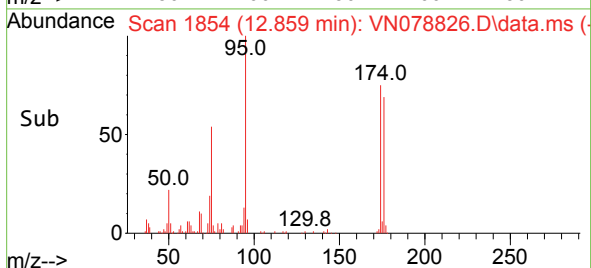
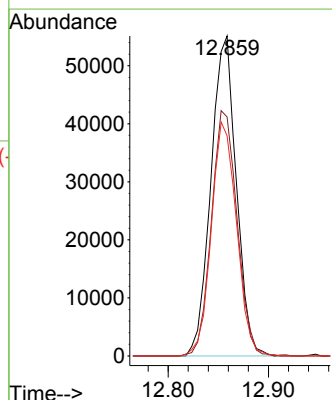
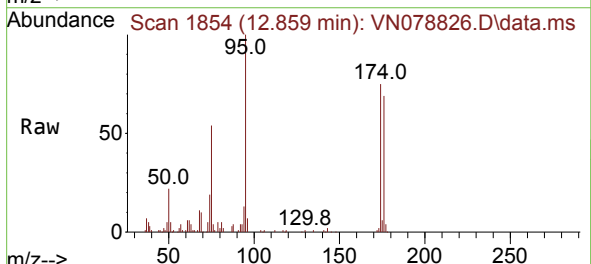
Instrument :
MSVOA_N
ClientSampleId :

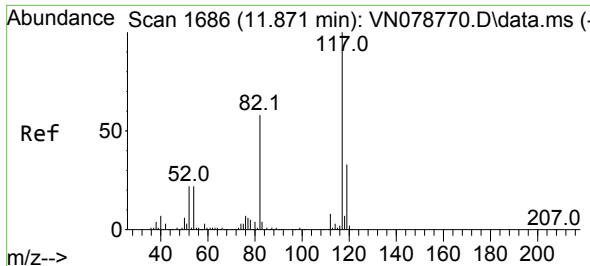
Tgt Ion: 43 Resp: 2696
Ion Ratio Lower Upper
43 100
58 23.4 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 42.199 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN078826.D
Acq: 10 Aug 2023 10:23

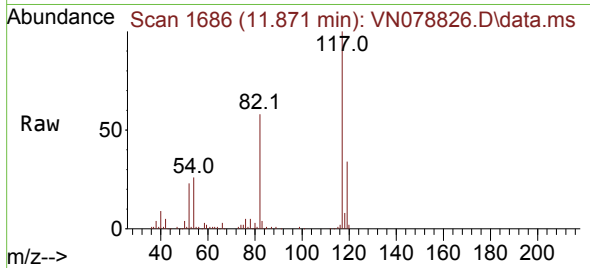
Tgt Ion: 95 Resp: 96785
Ion Ratio Lower Upper
95 100
174 77.8 0.0 143.8
176 72.8 0.0 135.8



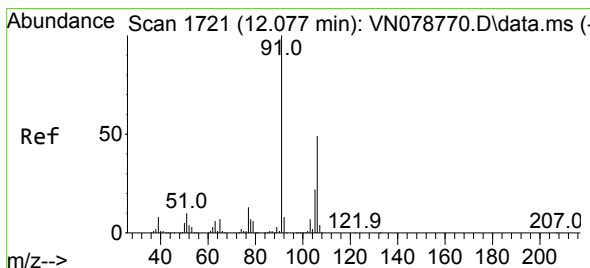
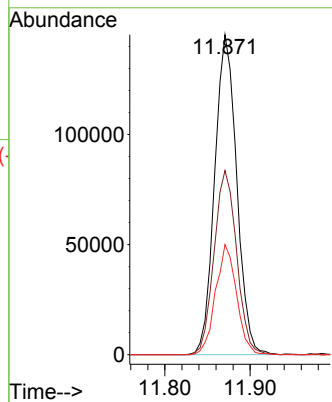
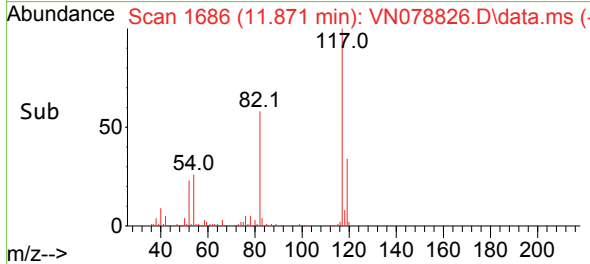


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN078826.D
Acq: 10 Aug 2023 10:23

Instrument :
MSVOA_N
ClientSampleId :

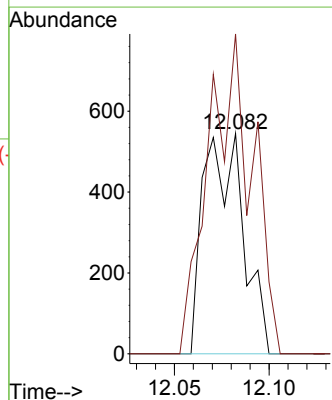
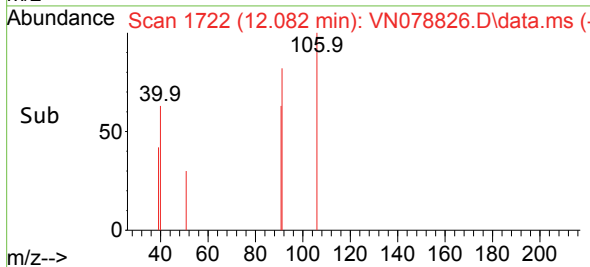
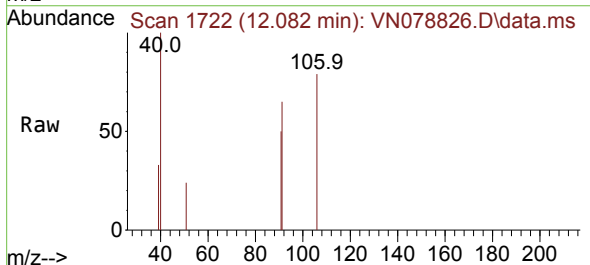


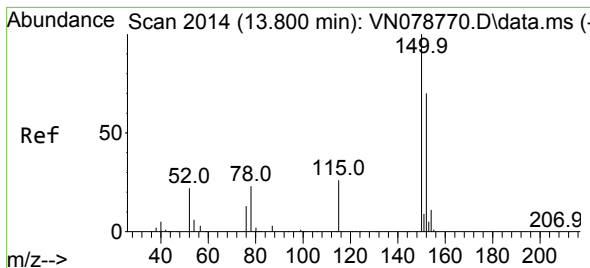
Tgt Ion:117 Resp: 261075
Ion Ratio Lower Upper
117 100
82 57.6 44.0 66.0
119 34.4 25.6 38.4



#68
m/p-Xylenes
Concen: 0.204 ug/l
RT: 12.082 min Scan# 1722
Delta R.T. 0.005 min
Lab File: VN078826.D
Acq: 10 Aug 2023 10:23

Tgt Ion:106 Resp: 796
Ion Ratio Lower Upper
106 100
91 159.4 159.6 239.4#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. -0.006 min

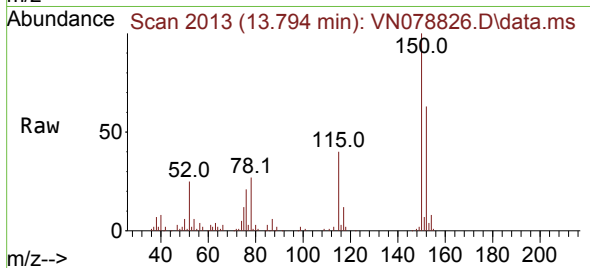
Lab File: VN078826.D

Acq: 10 Aug 2023 10:23

Instrument :

MSVOA_N

ClientSampleId :



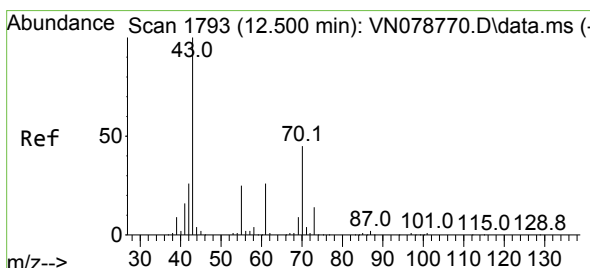
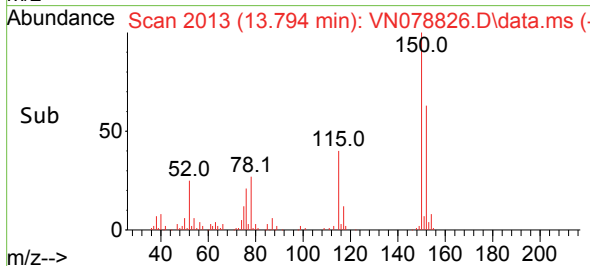
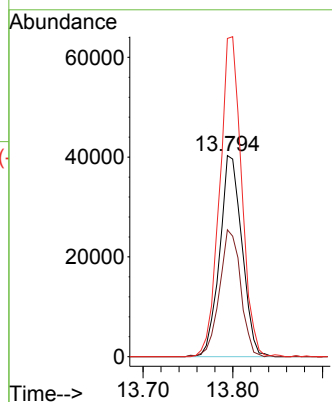
Tgt Ion:152 Resp: 69465

Ion Ratio Lower Upper

152 100

115 60.3 32.3 96.8

150 156.9 0.0 355.8



#74

N-ethyl acetate

Concen: 0.345 ug/l

RT: 12.506 min Scan# 1794

Delta R.T. 0.006 min

Lab File: VN078826.D

Acq: 10 Aug 2023 10:23

Tgt Ion: 43 Resp: 1070

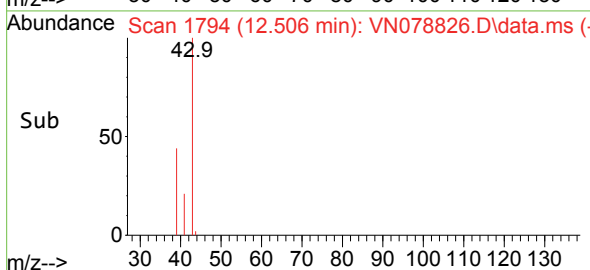
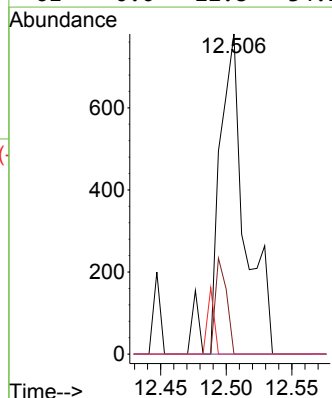
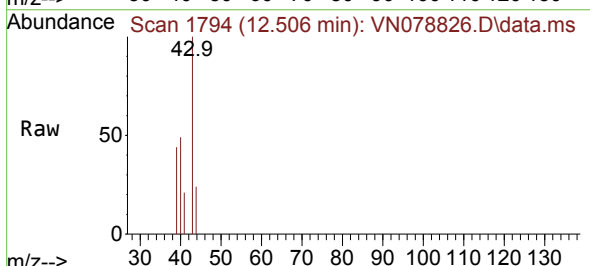
Ion Ratio Lower Upper

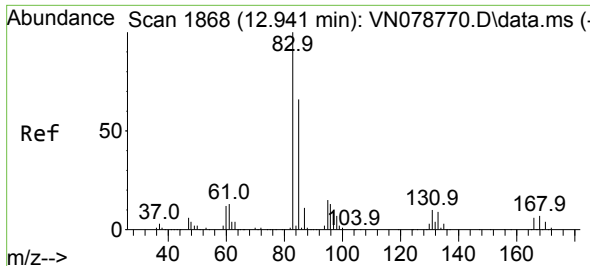
43 100

70 13.0 43.4 65.2#

55 5.3 21.4 32.0#

61 0.0 22.8 34.2#

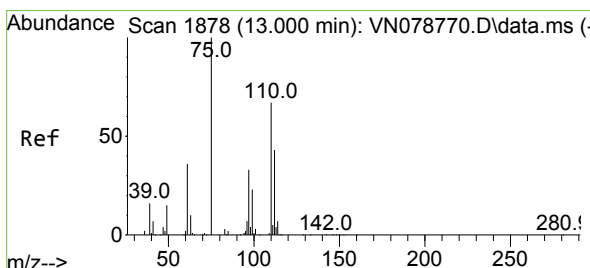
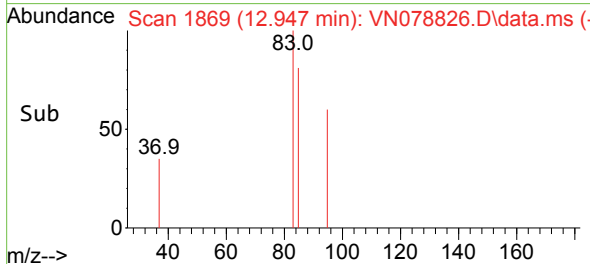
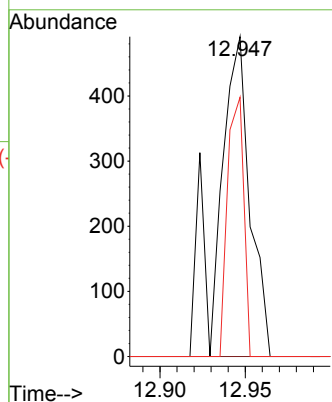
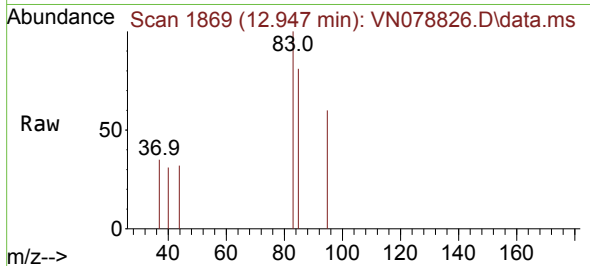




#75
1,1,2,2-Tetrachloroethane
Concen: 0.277 ug/l
RT: 12.947 min Scan# 1869
Delta R.T. 0.006 min
Lab File: VN078826.D
Acq: 10 Aug 2023 10:23

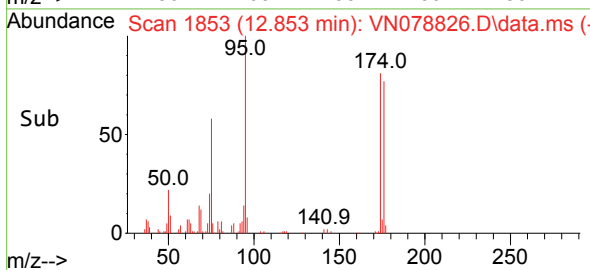
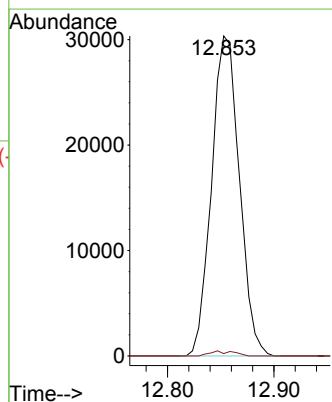
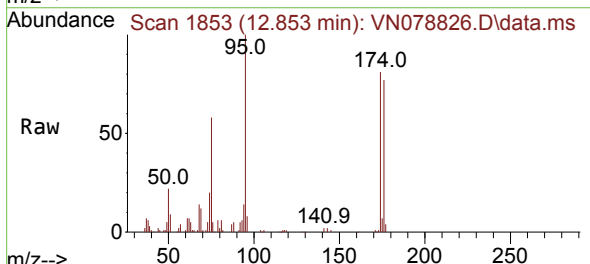
Instrument :
MSVOA_N
ClientSampleId :

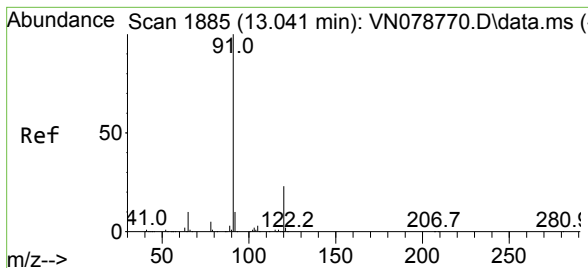
Tgt Ion: 83 Resp: 644
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 40.8 31.9 95.7



#76
1,2,3-Trichloropropane
Concen: 29.314 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078826.D
Acq: 10 Aug 2023 10:23

Tgt Ion: 75 Resp: 55054
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#





#78

n-propylbenzene

Concen: 0.241 ug/l

RT: 13.041 min Scan# 1885

Delta R.T. -0.000 min

Lab File: VN078826.D

Acq: 10 Aug 2023 10:23

Instrument :

MSVOA_N

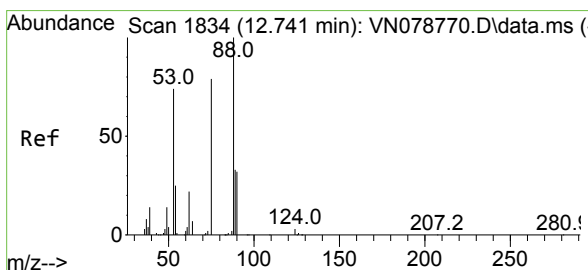
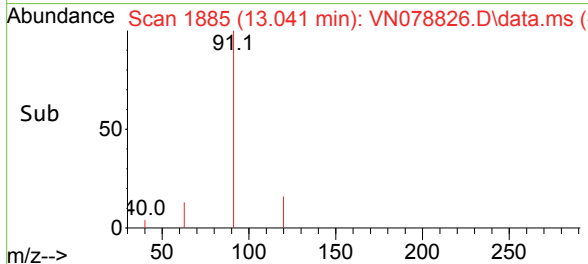
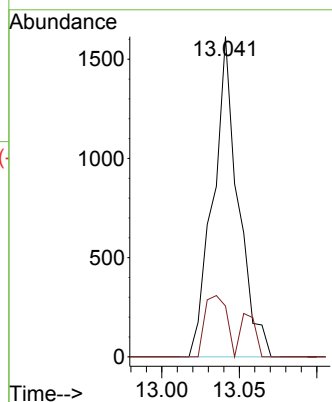
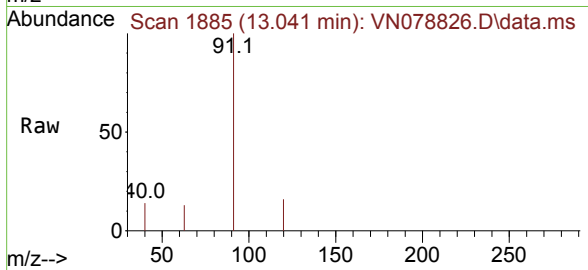
ClientSampleId :

Tgt Ion: 91 Resp: 1814

Ion Ratio Lower Upper

91 100

120 16.6 11.5 34.4



#81

trans-1,4-Dichloro-2-butene

Concen: 78.659 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078826.D

Acq: 10 Aug 2023 10:23

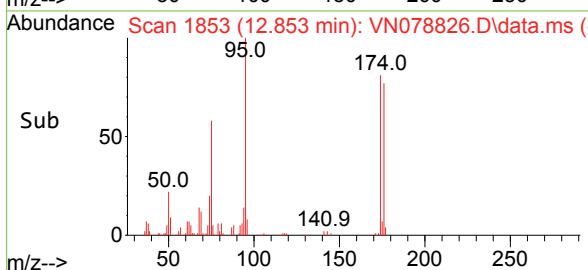
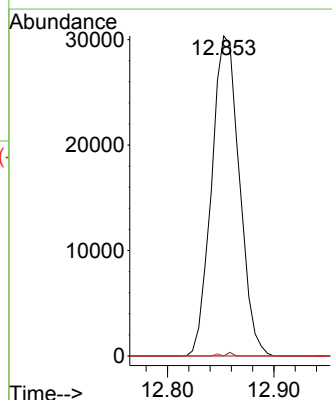
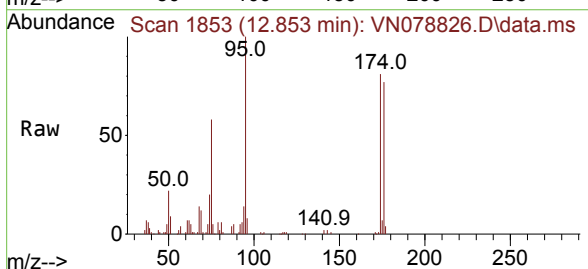
Tgt Ion: 75 Resp: 55054

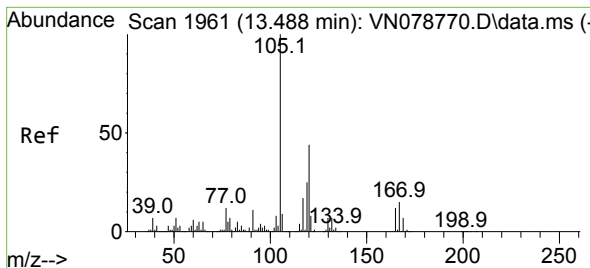
Ion Ratio Lower Upper

75 100

53 0.2 67.4 101.2#

89 0.1 38.8 58.2#





#84

1,2,4-Trimethylbenzene

Concen: 0.218 ug/l

RT: 13.494 min Scan# 1962

Delta R.T. 0.006 min

Lab File: VN078826.D

Acq: 10 Aug 2023 10:23

Instrument :

MSVOA_N

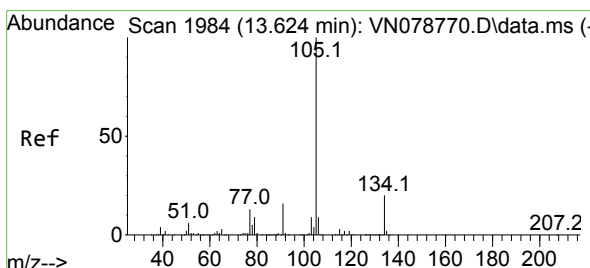
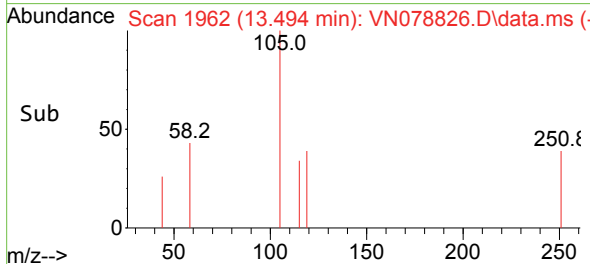
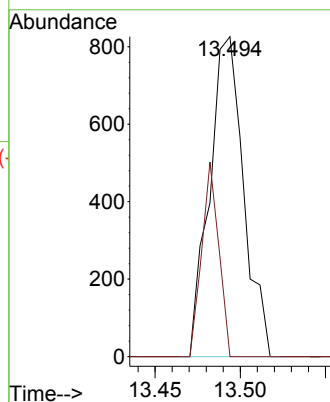
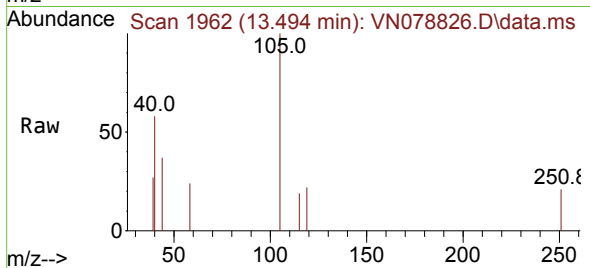
ClientSampleId :

Tgt Ion:105 Resp: 1148

Ion Ratio Lower Upper

105 100

120 30.3 22.0 66.0



#85

sec-Butylbenzene

Concen: 0.346 ug/l

RT: 13.623 min Scan# 1984

Delta R.T. -0.001 min

Lab File: VN078826.D

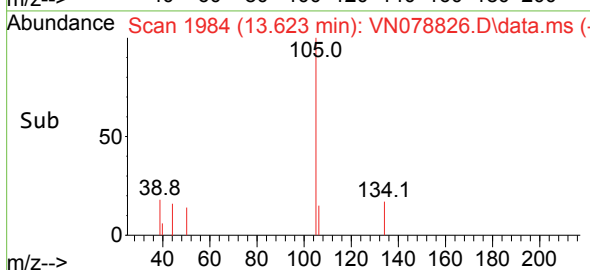
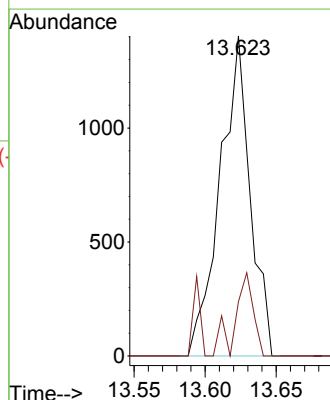
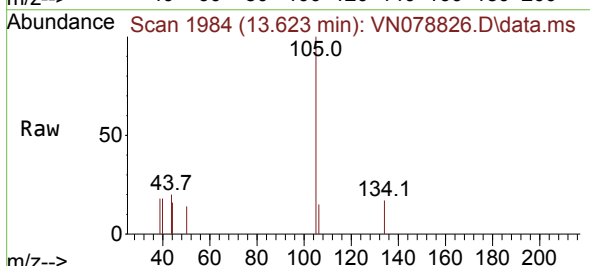
Acq: 10 Aug 2023 10:23

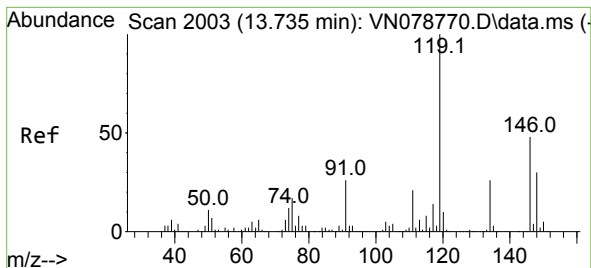
Tgt Ion:105 Resp: 2065

Ion Ratio Lower Upper

105 100

134 16.1 9.8 29.3





#86

p-Isopropyltoluene

Concen: 0.377 ug/l

RT: 13.729 min Scan# 2000

Delta R.T. -0.006 min

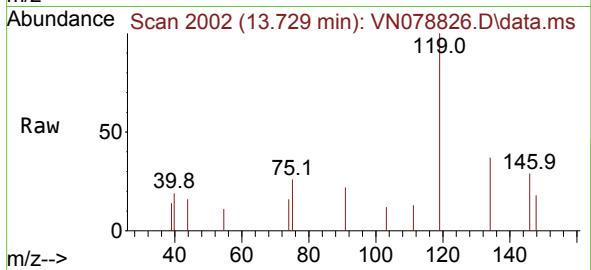
Lab File: VN078826.D

Acq: 10 Aug 2023 10:23

Instrument :

MSVOA_N

ClientSampleId :



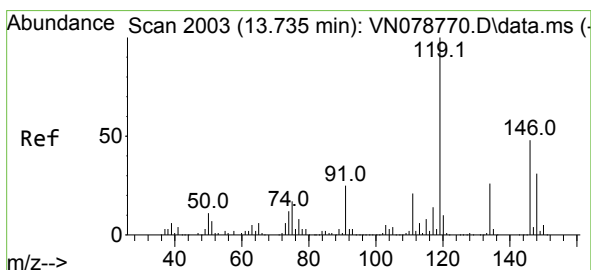
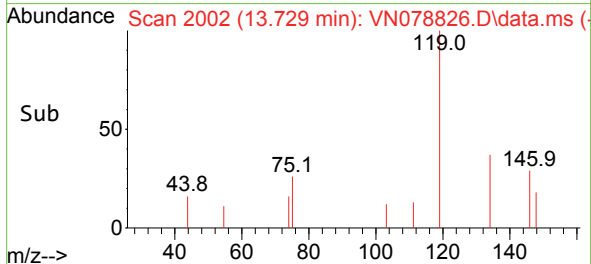
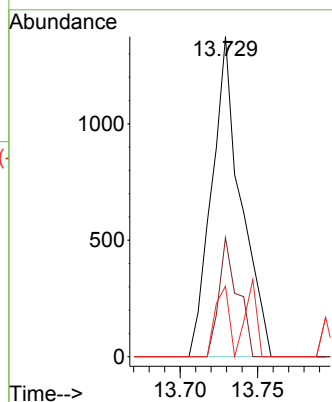
Tgt Ion:119 Resp: 1788

Ion Ratio Lower Upper

119 100

134 24.1 12.6 37.8

91 10.5 12.4 37.2#



#87

1,3-Dichlorobenzene

Concen: 0.450 ug/l

RT: 13.741 min Scan# 2004

Delta R.T. 0.006 min

Lab File: VN078826.D

Acq: 10 Aug 2023 10:23

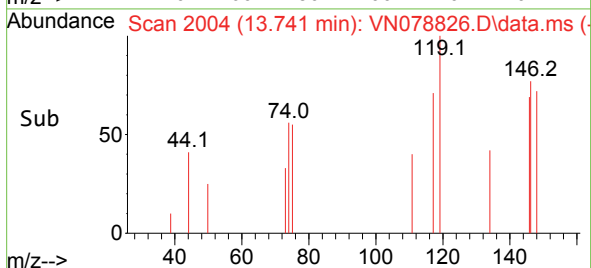
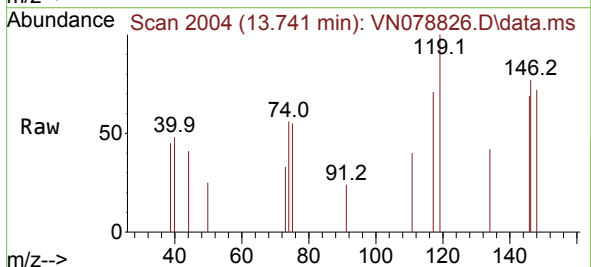
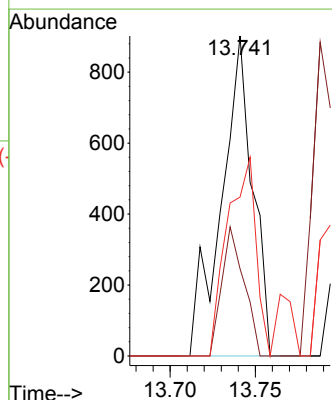
Tgt Ion:146 Resp: 1152

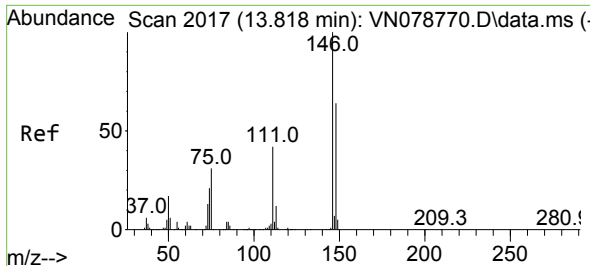
Ion Ratio Lower Upper

146 100

111 28.7 22.1 66.3

148 56.8 32.0 96.0

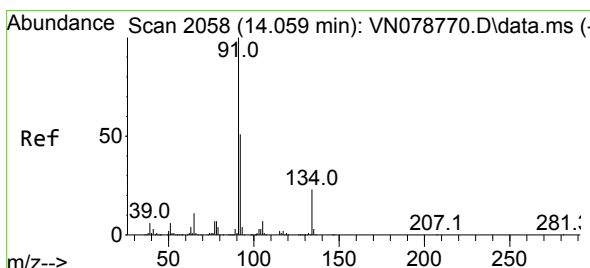
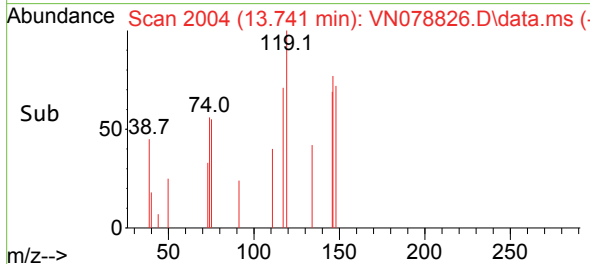
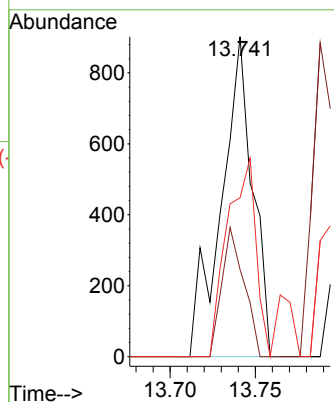
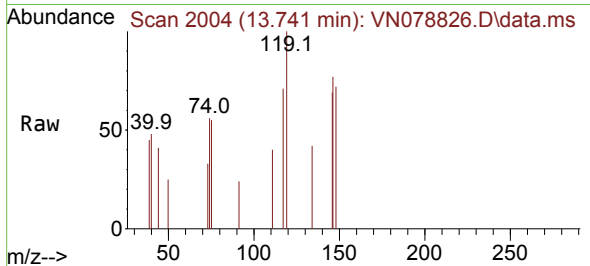




#88
 1,4-Dichlorobenzene
 Concen: 0.454 ug/l
 RT: 13.741 min Scan# 2004
 Delta R.T. -0.077 min
 Lab File: VN078826.D
 Acq: 10 Aug 2023 10:23

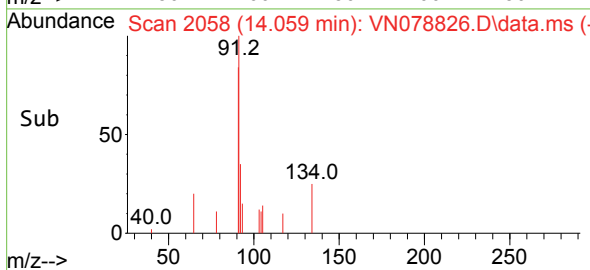
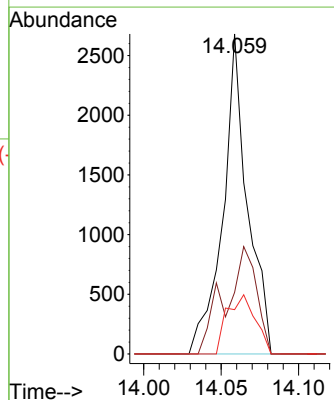
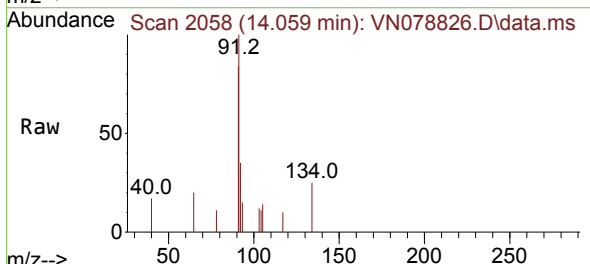
Instrument :
 MSVOA_N
 ClientSampleId :

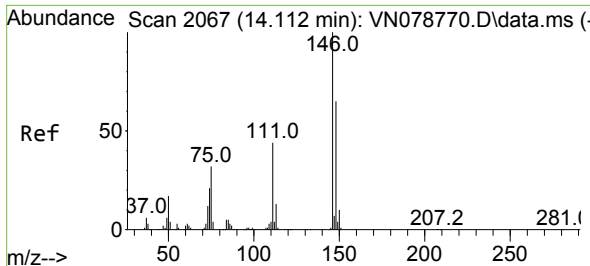
Tgt Ion:146 Resp: 1152
 Ion Ratio Lower Upper
 146 100
 111 28.7 20.6 61.8
 148 56.8 31.6 94.8



#89
 n-Butylbenzene
 Concen: 0.827 ug/l
 RT: 14.059 min Scan# 2058
 Delta R.T. -0.000 min
 Lab File: VN078826.D
 Acq: 10 Aug 2023 10:23

Tgt Ion: 91 Resp: 2944
 Ion Ratio Lower Upper
 91 100
 92 42.8 26.4 79.0
 134 21.3 12.6 37.6

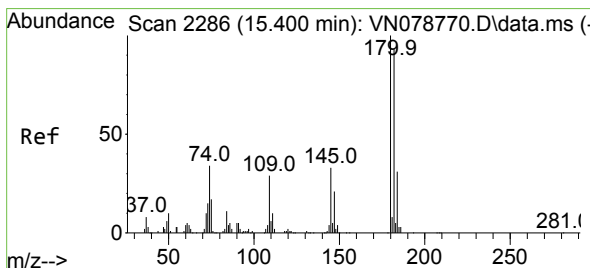
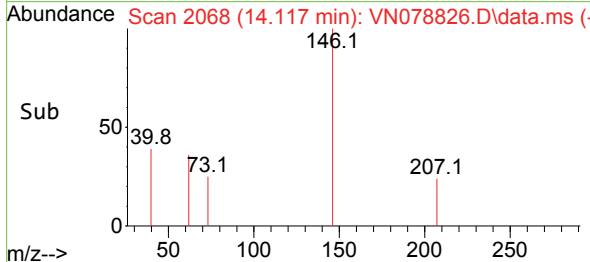
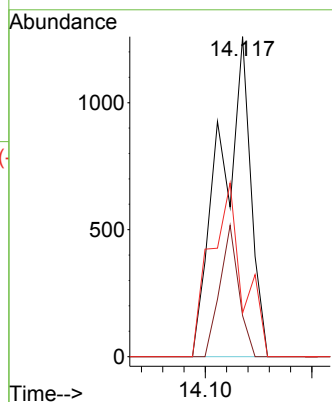
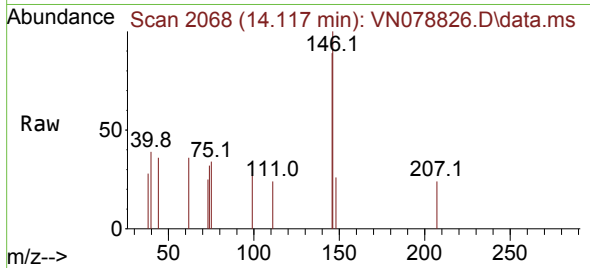




#91
1,2-Dichlorobenzene
Concen: 0.507 ug/l
RT: 14.117 min Scan# 2068
Delta R.T. 0.006 min
Lab File: VN078826.D
Acq: 10 Aug 2023 10:23

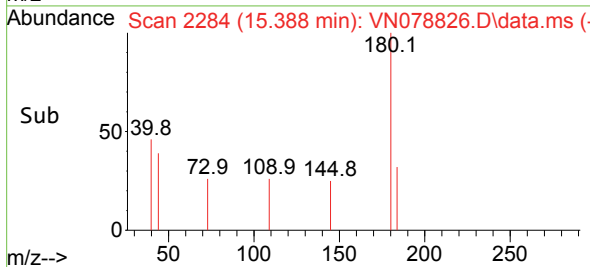
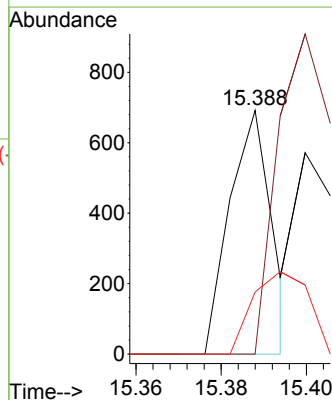
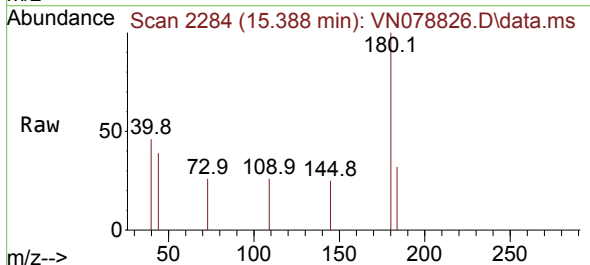
Instrument :
MSVOA_N
ClientSampleId :

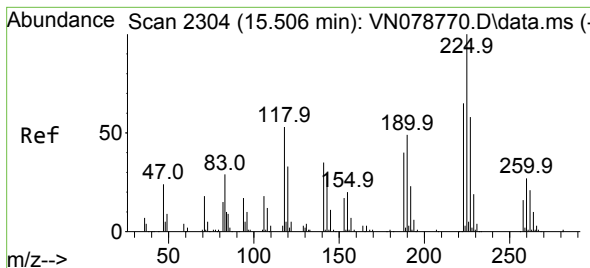
Tgt Ion:146 Resp: 1251
Ion Ratio Lower Upper
146 100
111 25.5 22.0 66.0
148 57.2 31.8 95.3



#93
1,2,4-Trichlorobenzene
Concen: 0.689 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. -0.012 min
Lab File: VN078826.D
Acq: 10 Aug 2023 10:23

Tgt Ion:180 Resp: 478
Ion Ratio Lower Upper
180 100
182 188.5 46.1 138.2#
145 44.8 16.6 49.8





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.500 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN078826.D

Acq: 10 Aug 2023 10:23

Instrument :

MSVOA_N

ClientSampleId :

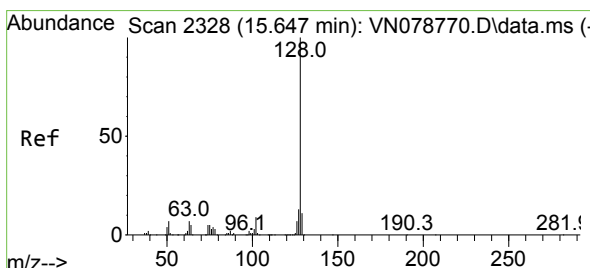
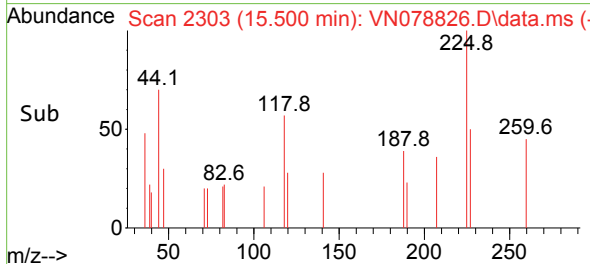
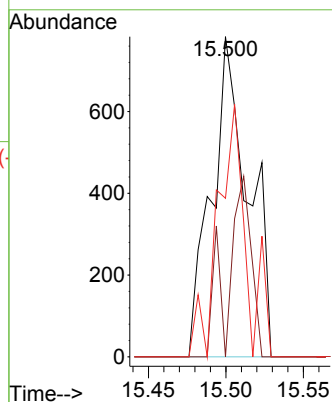
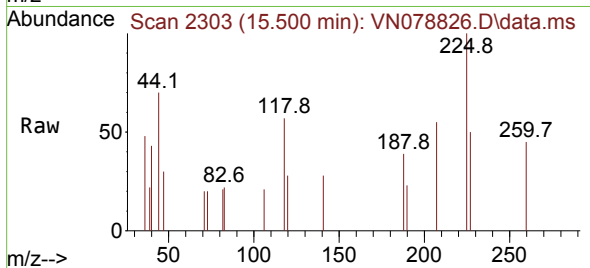
Tgt Ion:225 Resp: 1284

Ion Ratio Lower Upper

225 100

223 36.4 31.3 93.8

227 60.2 31.9 95.9



#95

Naphthalene

Concen: 1.308 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.006 min

Lab File: VN078826.D

Acq: 10 Aug 2023 10:23

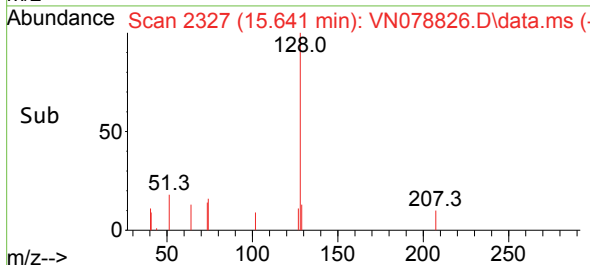
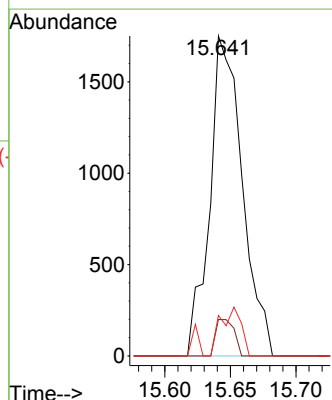
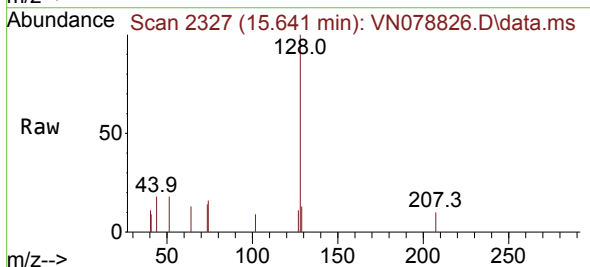
Tgt Ion:128 Resp: 3027

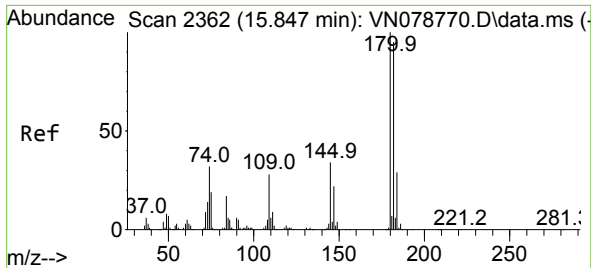
Ion Ratio Lower Upper

128 100

127 6.4 10.0 15.0#

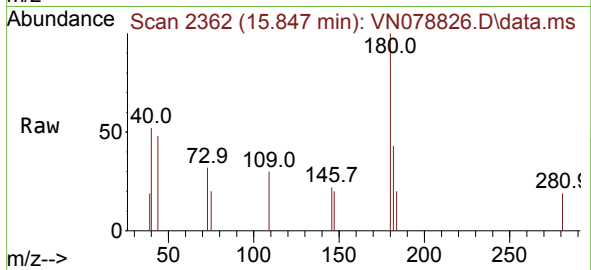
129 9.7 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 1.819 ug/l
 RT: 15.847 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN078826.D
 Acq: 10 Aug 2023 10:23

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
180	100		
182	39.7	46.2	138.6#
145	13.6	17.5	52.6#

