

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031323\
 Data File : VN076960.D
 Acq On : 13 Mar 2023 14:31
 Operator : JC\MD
 Sample : 01846-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3

Quant Time: Mar 14 07:02:43 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031023W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 10 13:47:39 2023
 Response via : Initial Calibration

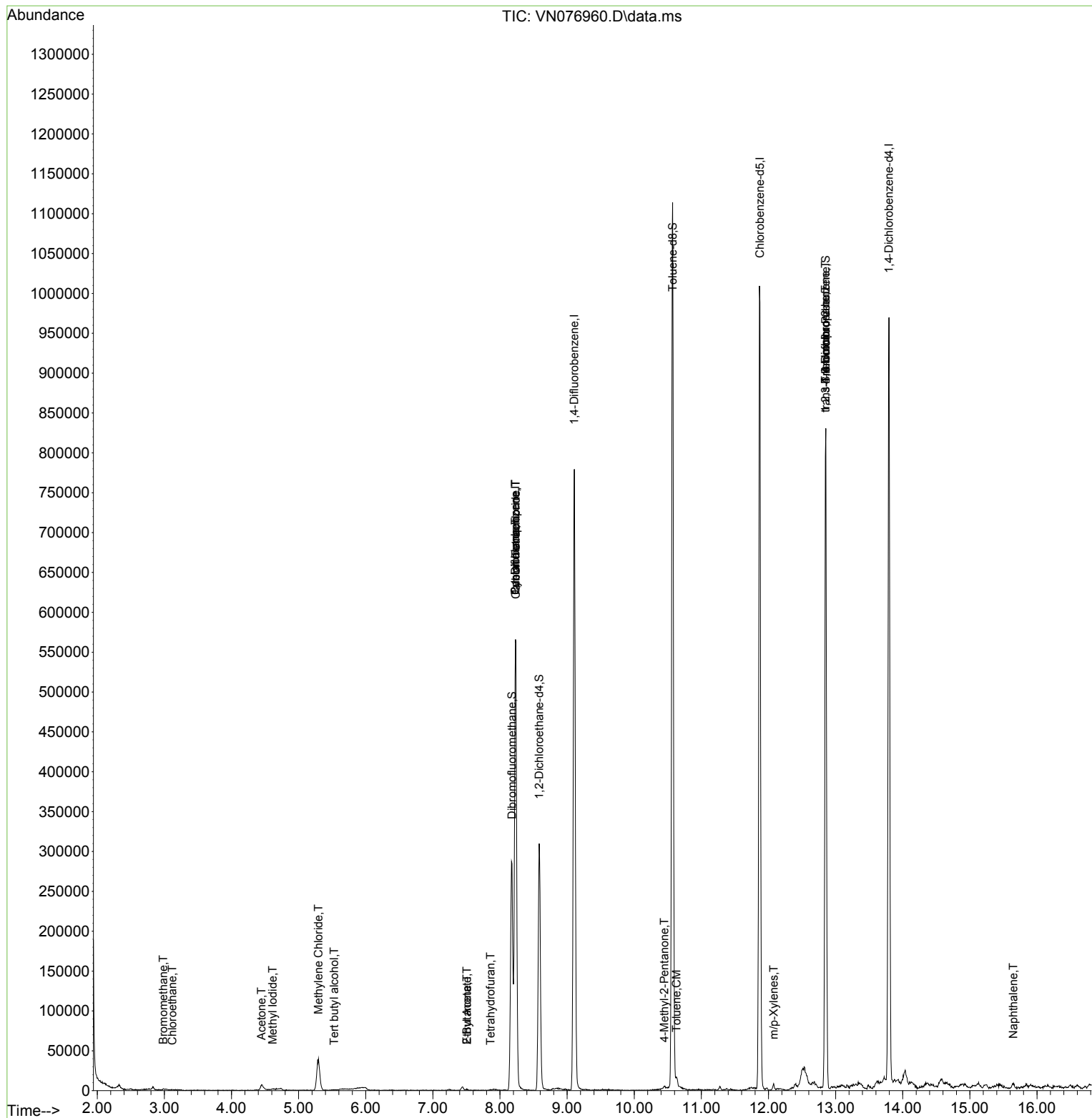
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.231	168	405583	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	659526	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	590607	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	256124	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	274485	45.351	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	90.700%
35) Dibromofluoromethane	8.178	113	209221	47.599	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.200%
50) Toluene-d8	10.572	98	780699	48.192	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	96.380%
62) 4-Bromofluorobenzene	12.854	95	296949	50.115	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	100.240%
Target Compounds						
					Qvalue	
5) Bromomethane	2.984	94	1007	0.373	ug/l #	74
6) Chloroethane	3.119	64	585	0.251	ug/l #	42
10) Methyl Iodide	4.613	142	1103	0.217	ug/l #	76
11) Tert butyl alcohol	5.531	59	228	0.271	ug/l #	72
16) Acetone	4.448	43	13211	6.299	ug/l	98
20) Methylene Chloride	5.295	84	32248	5.980	ug/l	89
25) 2-Butanone	7.507	43	1962	0.658	ug/l	93
29) Tetrahydrofuran	7.860	42	746	0.403	ug/l #	39
31) Cyclohexane	8.231	56	8726	1.005	ug/l #	17
36) 1,1-Dichloropropene	8.231	75	34041	5.007	ug/l #	50
37) Ethyl Acetate	7.507	43	1962	0.361	ug/l #	63
38) Carbon Tetrachloride	8.236	117	46089	5.793	ug/l #	17
51) 4-Methyl-2-Pentanone	10.448	43	1798	0.312	ug/l	89
52) Toluene	10.630	92	4346	0.352	ug/l	88
68) m/p-Xylenes	12.077	106	2208	0.242	ug/l	78
71) Bromoform	12.854	173	1711	0.458	ug/l #	1
76) 1,2,3-Trichloropropane	12.848	75	163347	26.306	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.848	75	163347	85.928	ug/l #	15
95) Naphthalene	15.648	128	5754	0.372	ug/l	99

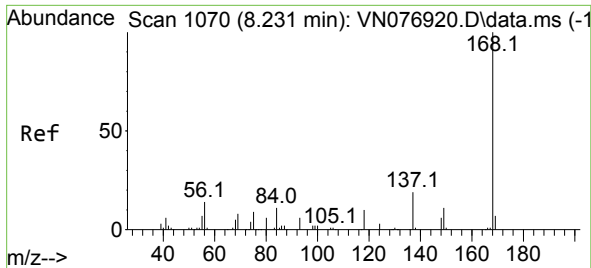
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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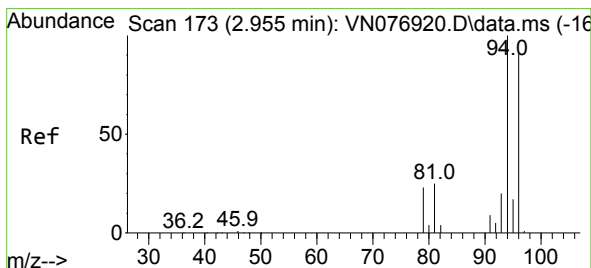
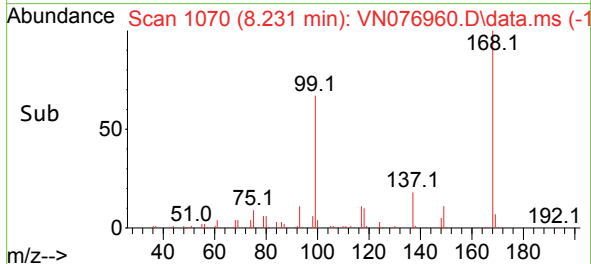
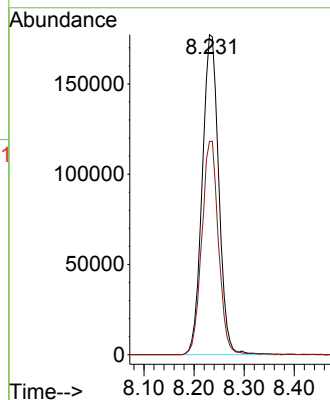
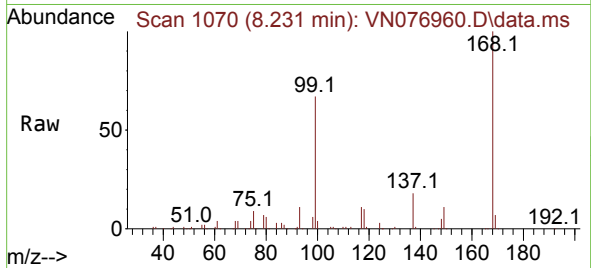




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN076960.D
Acq: 13 Mar 2023 14:31

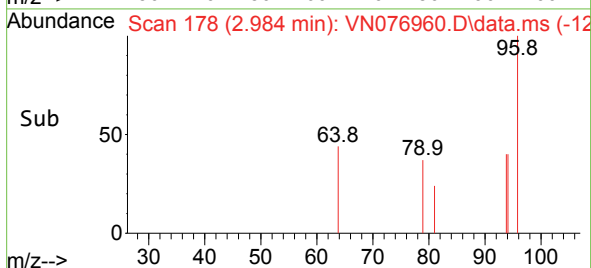
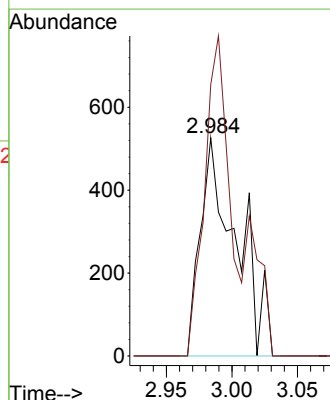
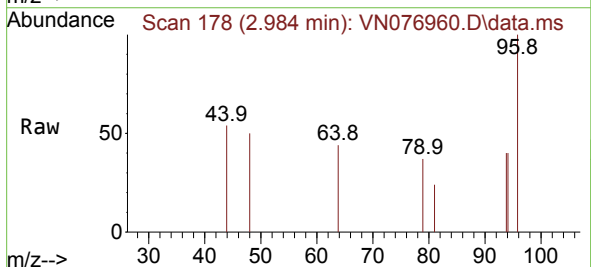
Instrument :
MSVOA_N
ClientSampleId :
TP-3

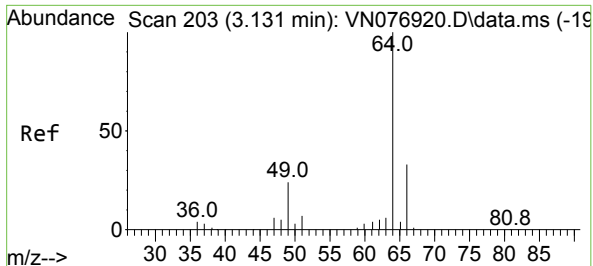
Tgt Ion:168 Resp: 405583
Ion Ratio Lower Upper
168 100
99 66.7 48.6 73.0



#5
Bromomethane
Concen: 0.373 ug/l
RT: 2.984 min Scan# 178
Delta R.T. 0.029 min
Lab File: VN076960.D
Acq: 13 Mar 2023 14:31

Tgt Ion: 94 Resp: 1007
Ion Ratio Lower Upper
94 100
96 124.5 79.0 118.6#

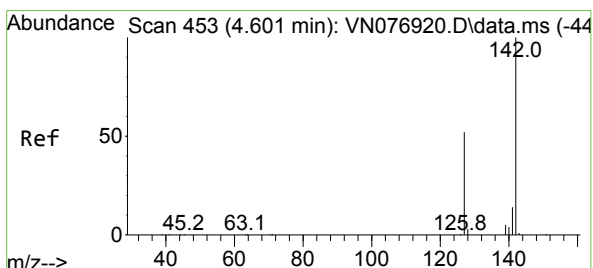
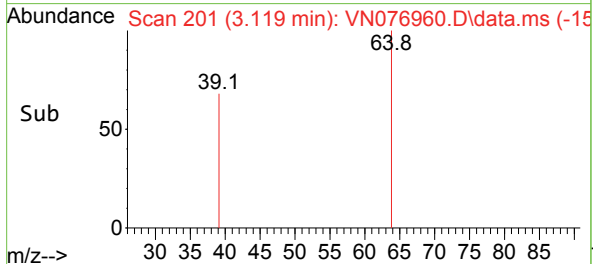
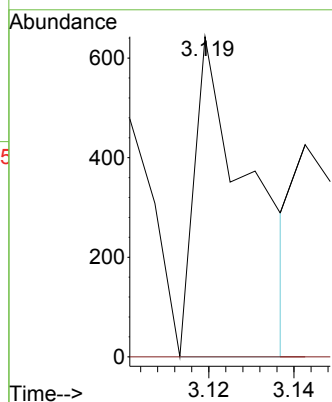
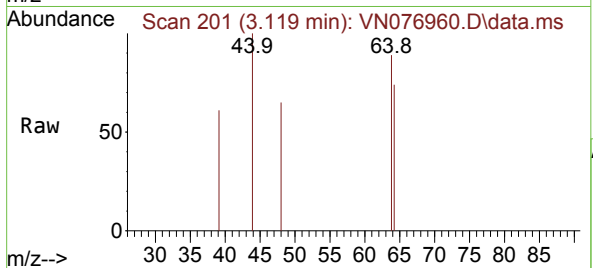




#6
Chloroethane
Concen: 0.251 ug/l
RT: 3.119 min Scan# 203
Delta R.T. -0.012 min
Lab File: VN076960.D
Acq: 13 Mar 2023 14:31

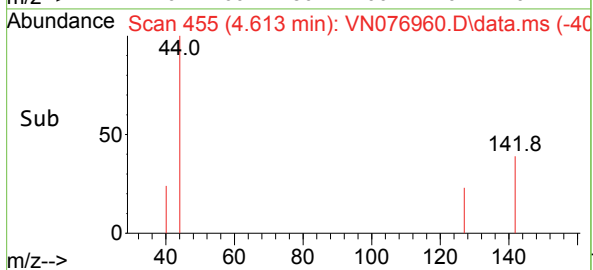
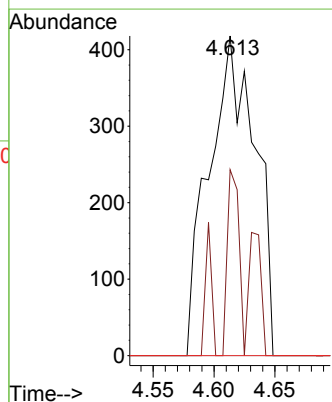
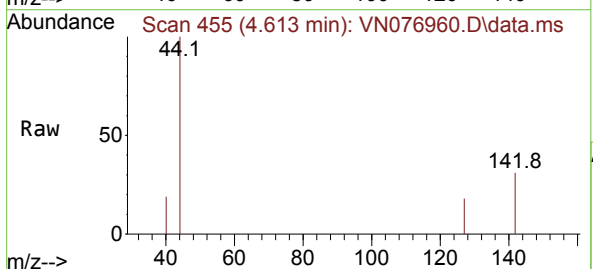
Instrument :
MSVOA_N
ClientSampleId :
TP-3

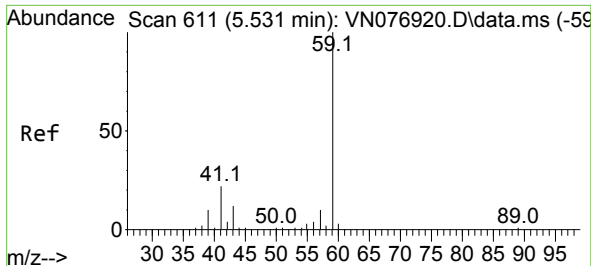
Tgt Ion: 64 Resp: 585
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#10
Methyl Iodide
Concen: 0.217 ug/l
RT: 4.613 min Scan# 455
Delta R.T. 0.012 min
Lab File: VN076960.D
Acq: 13 Mar 2023 14:31

Tgt Ion: 142 Resp: 1103
Ion Ratio Lower Upper
142 100
127 58.1 35.2 52.8#
141 0.0 10.2 15.2#

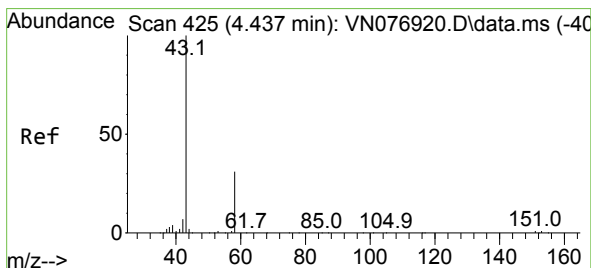
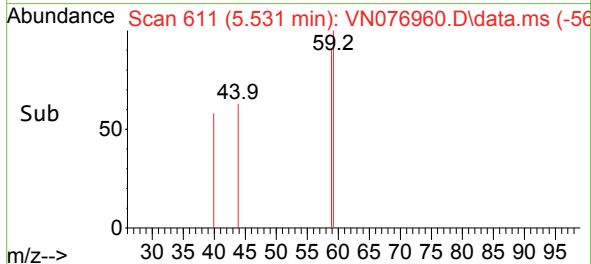
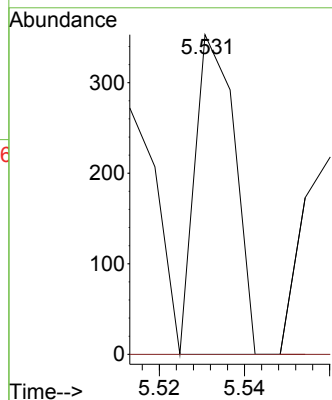
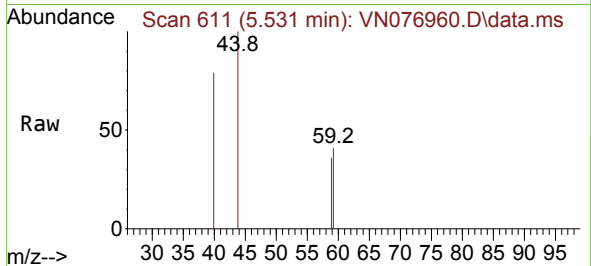




#11
Tert butyl alcohol
Concen: 0.271 ug/l
RT: 5.531 min Scan# 611
Delta R.T. -0.000 min
Lab File: VN076960.D
Acq: 13 Mar 2023 14:31

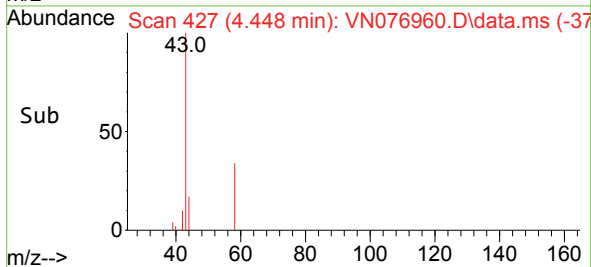
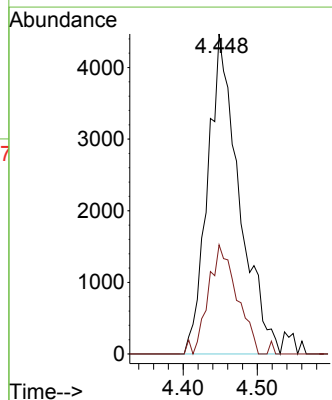
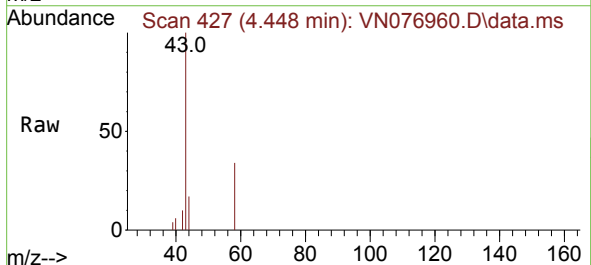
Instrument :
MSVOA_N
ClientSampleId :
TP-3

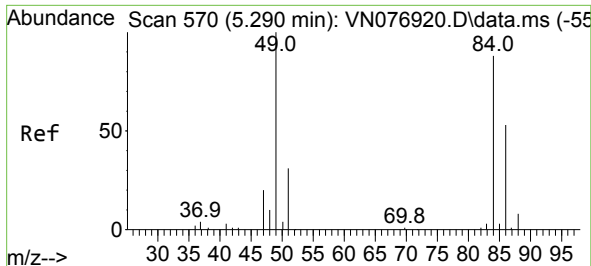
Tgt Ion: 59 Resp: 228
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#16
Acetone
Concen: 6.299 ug/l
RT: 4.448 min Scan# 427
Delta R.T. 0.011 min
Lab File: VN076960.D
Acq: 13 Mar 2023 14:31

Tgt Ion: 43 Resp: 13211
Ion Ratio Lower Upper
43 100
58 34.1 28.2 42.2

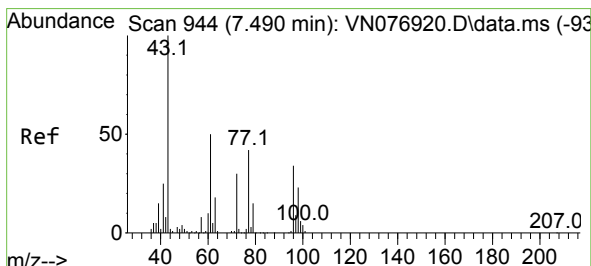
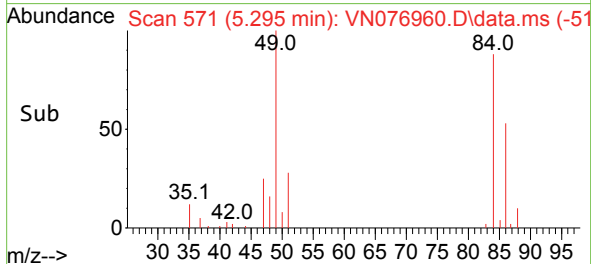
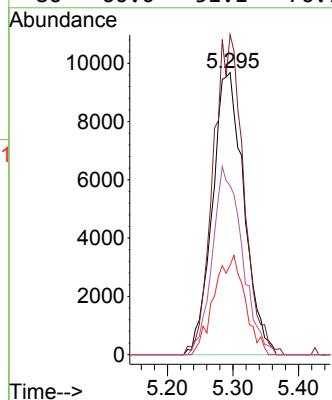
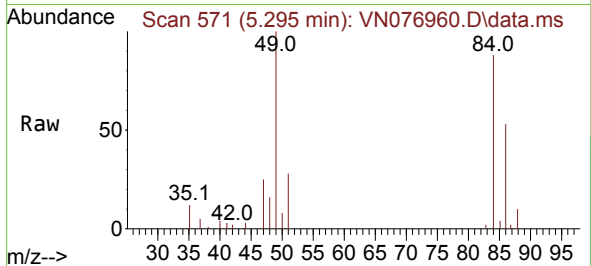




#20
Methylene Chloride
Concen: 5.980 ug/l
RT: 5.295 min Scan# 51
Delta R.T. 0.005 min
Lab File: VN076960.D
Acq: 13 Mar 2023 14:31

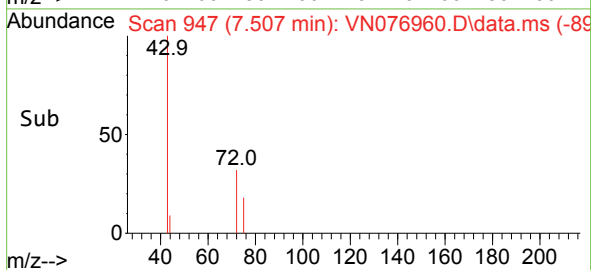
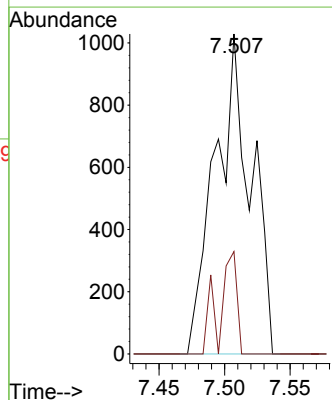
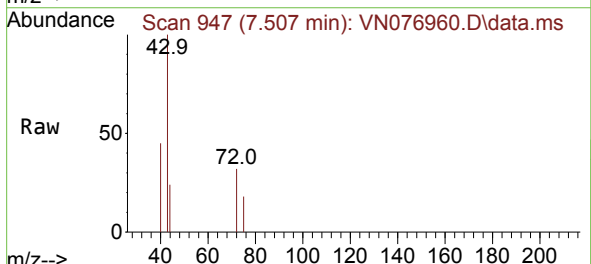
Instrument :
MSVOA_N
ClientSampleId :
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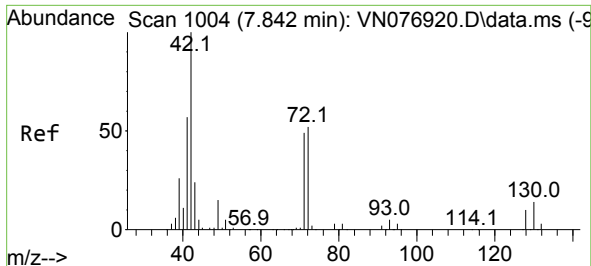
Tgt Ion:	84	Resp:	32248
Ion	Ratio	Lower	Upper
84	100		
49	113.5	76.6	114.8
51	31.7	25.4	38.2
86	60.0	51.1	76.7



#25
2-Butanone
Concen: 0.658 ug/l
RT: 7.507 min Scan# 947
Delta R.T. 0.017 min
Lab File: VN076960.D
Acq: 13 Mar 2023 14:31

Tgt Ion:	43	Resp:	1962
Ion	Ratio	Lower	Upper
43	100		
72	32.0	28.8	43.2





#29

Tetrahydrofuran

Concen: 0.403 ug/l

RT: 7.860 min Scan# 1007

Delta R.T. 0.018 min

Lab File: VN076960.D

Acq: 13 Mar 2023 14:31

Instrument :

MSVOA_N

ClientSampleId :

TP-3

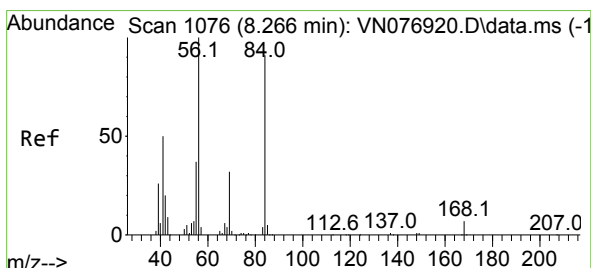
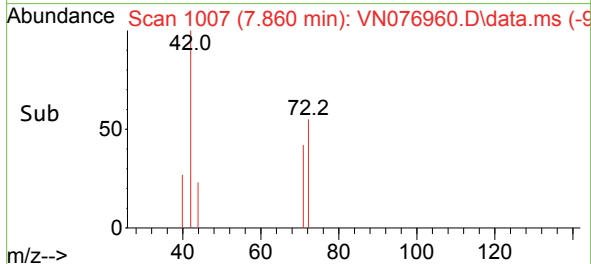
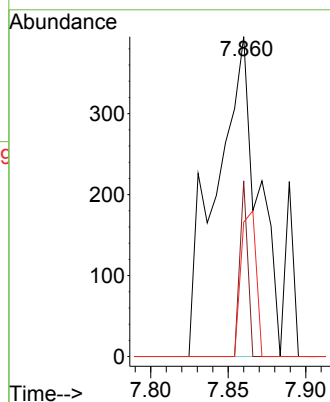
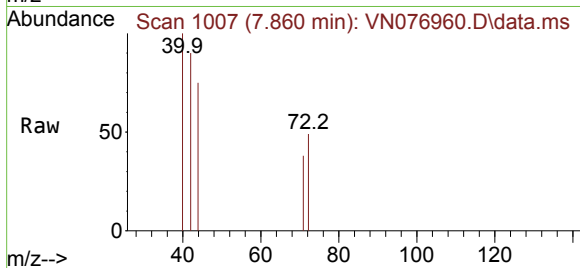
Tgt Ion: 42 Resp: 746

Ion Ratio Lower Upper

42 100

72 10.3 48.6 73.0#

71 16.4 45.1 67.7#



#31

Cyclohexane

Concen: 1.005 ug/l

RT: 8.231 min Scan# 1070

Delta R.T. -0.035 min

Lab File: VN076960.D

Acq: 13 Mar 2023 14:31

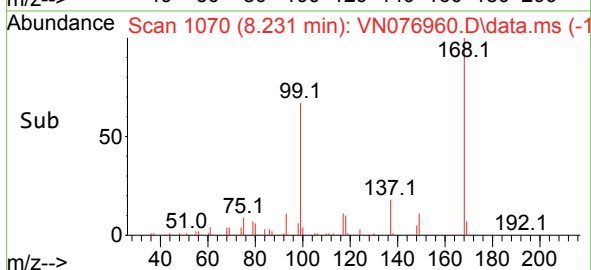
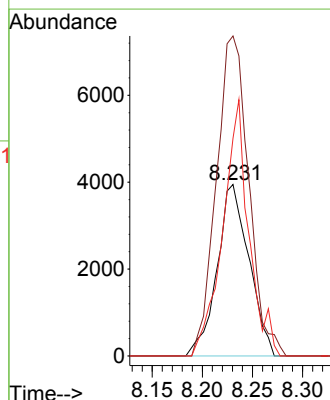
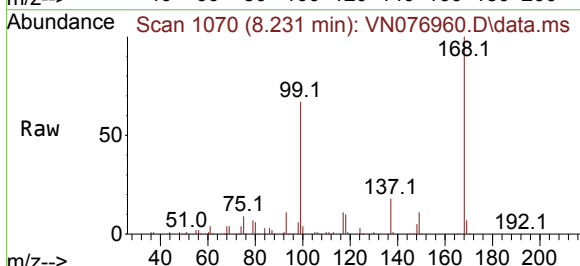
Tgt Ion: 56 Resp: 8726

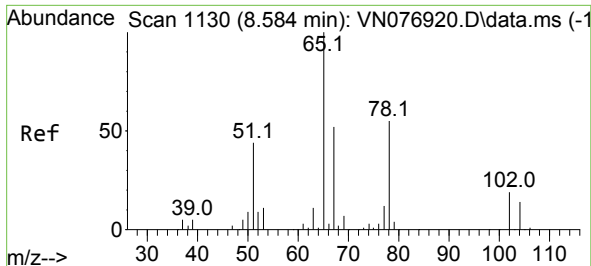
Ion Ratio Lower Upper

56 100

69 186.6 27.0 40.6#

84 126.9 82.9 124.3#





#33

1,2-Dichloroethane-d4

Concen: 45.351 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. -0.001 min

Lab File: VN076960.D

Acq: 13 Mar 2023 14:31

Instrument :

MSVOA_N

ClientSampleId :

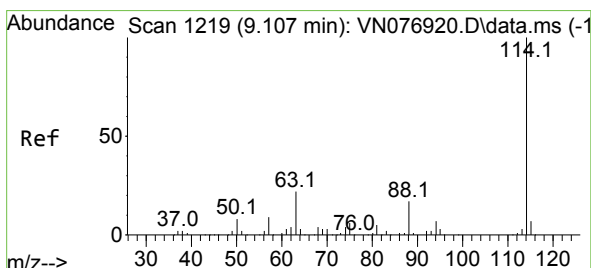
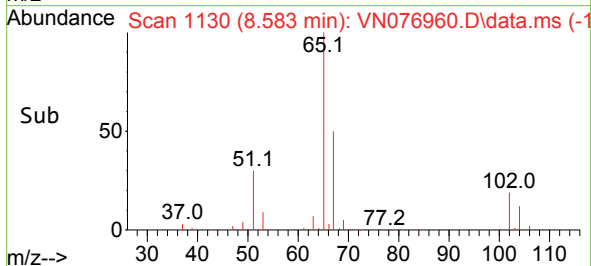
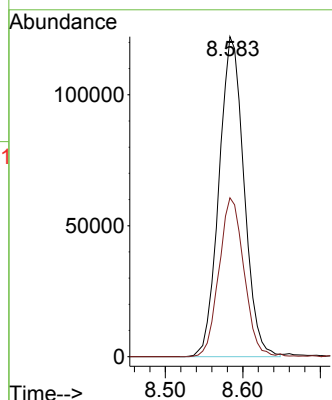
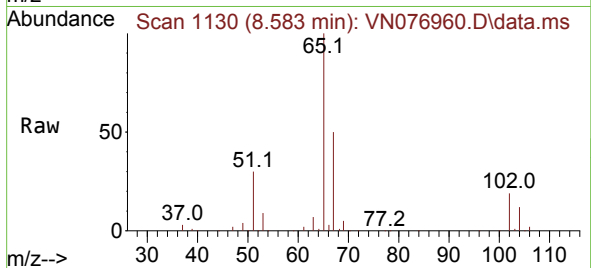
TP-3

Tgt Ion: 65 Resp: 274485

Ion Ratio Lower Upper

65 100

67 49.7 0.0 107.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. -0.000 min

Lab File: VN076960.D

Acq: 13 Mar 2023 14:31

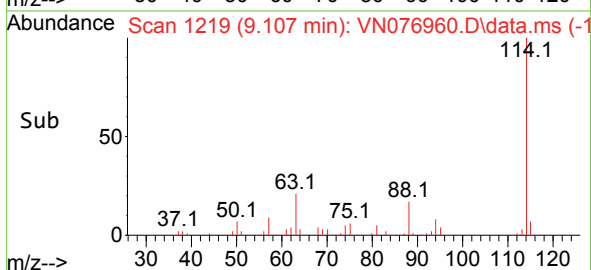
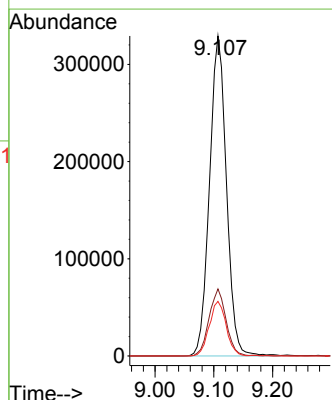
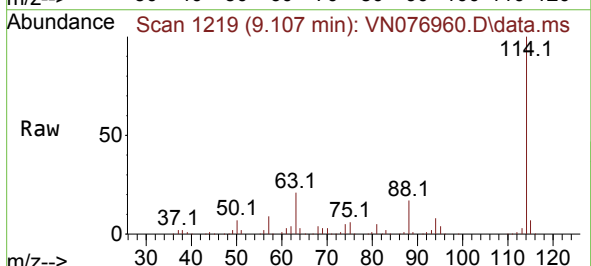
Tgt Ion: 114 Resp: 659526

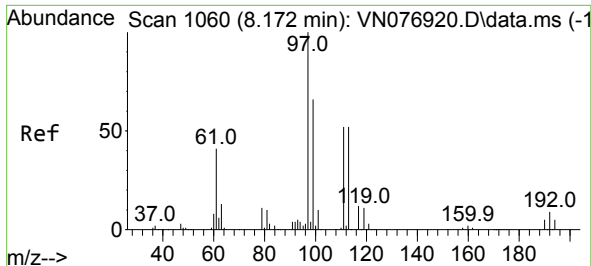
Ion Ratio Lower Upper

114 100

63 21.0 0.0 36.6

88 17.1 0.0 28.6

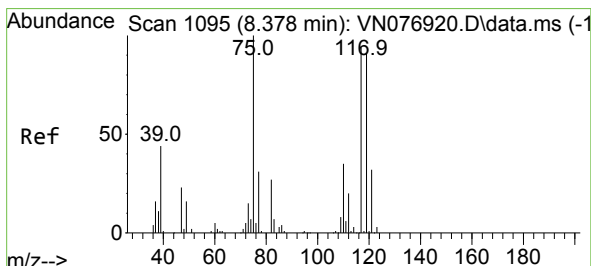
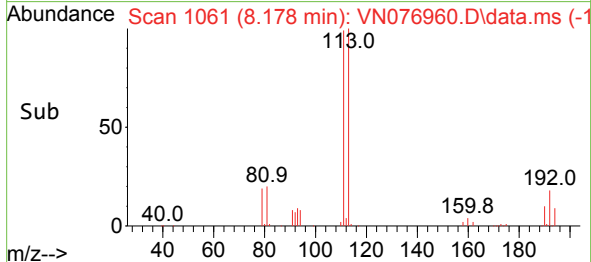
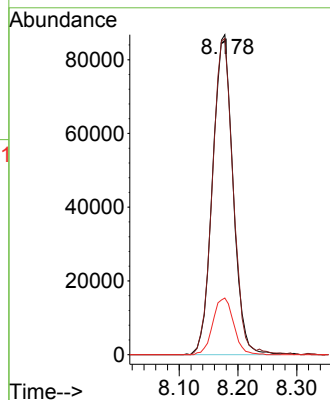
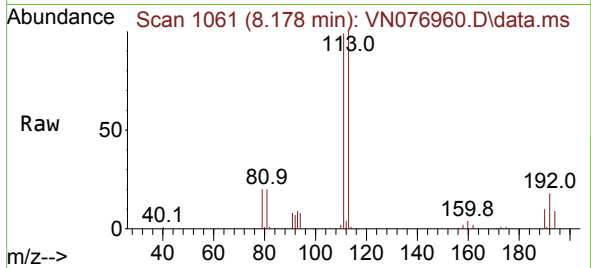




#35
Dibromofluoromethane
Concen: 47.599 ug/l
RT: 8.178 min Scan# 1060
Delta R.T. 0.006 min
Lab File: VN076960.D
Acq: 13 Mar 2023 14:31

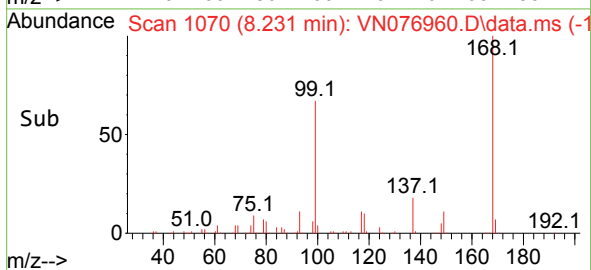
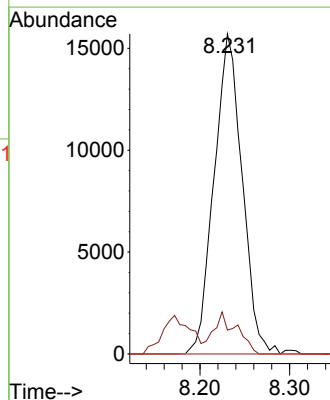
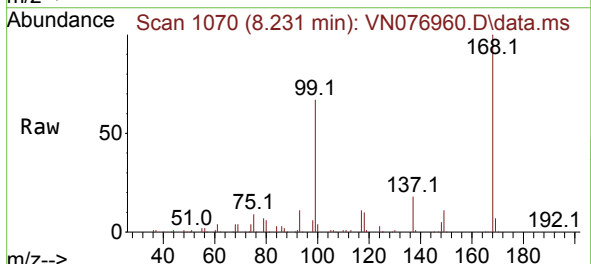
Instrument :
MSVOA_N
ClientSampleId :
TP-3

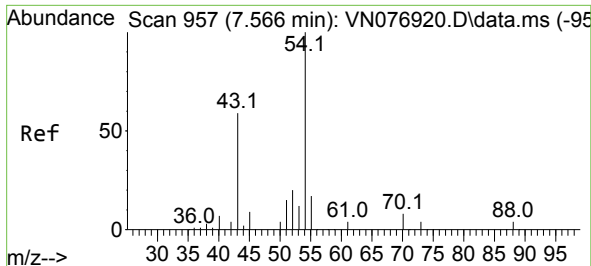
Tgt Ion:113 Resp: 209221
Ion Ratio Lower Upper
113 100
111 100.3 81.8 122.8
192 18.0 13.9 20.9



#36
1,1-Dichloropropene
Concen: 5.007 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.147 min
Lab File: VN076960.D
Acq: 13 Mar 2023 14:31

Tgt Ion: 75 Resp: 34041
Ion Ratio Lower Upper
75 100
110 11.0 18.9 56.9#
77 0.0 24.9 37.3#

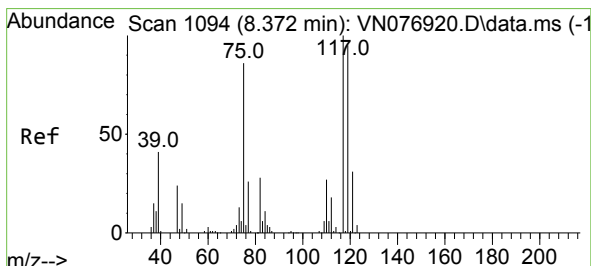
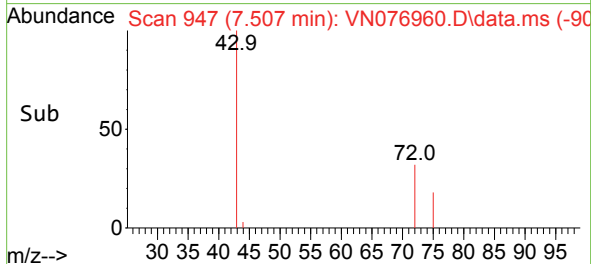
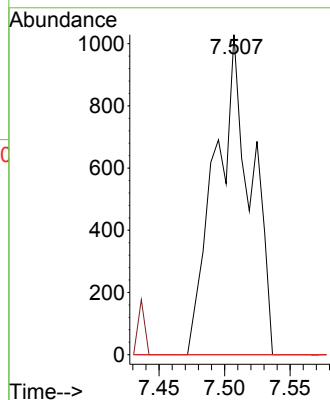
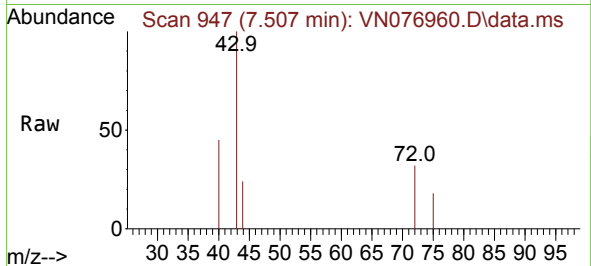




#37
Ethyl Acetate
Concen: 0.361 ug/l
RT: 7.507 min Scan# 947
Delta R.T. -0.059 min
Lab File: VN076960.D
Acq: 13 Mar 2023 14:31

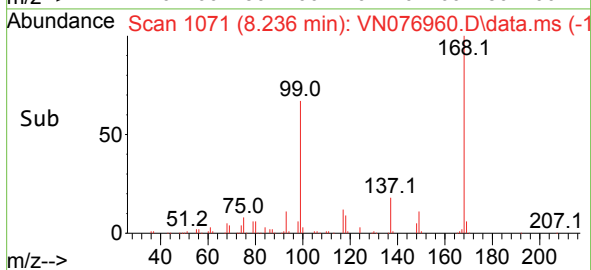
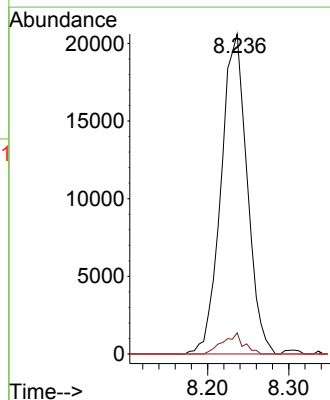
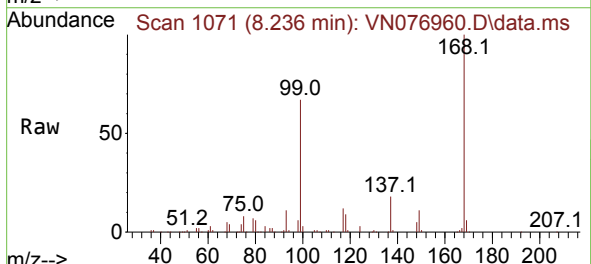
Instrument :
MSVOA_N
ClientSampleId :
TP-3

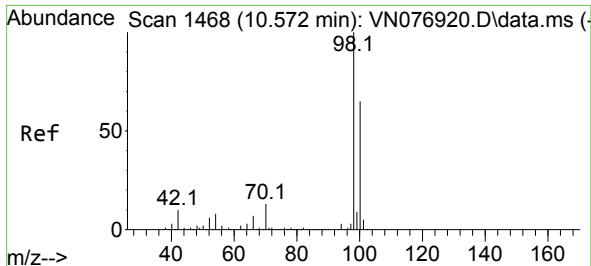
Tgt Ion: 43 Resp: 1962
Ion Ratio Lower Upper
43 100
61 0.0 13.5 20.3#
70 0.0 11.0 16.6#



#38
Carbon Tetrachloride
Concen: 5.793 ug/l
RT: 8.236 min Scan# 1071
Delta R.T. -0.136 min
Lab File: VN076960.D
Acq: 13 Mar 2023 14:31

Tgt Ion: 117 Resp: 46089
Ion Ratio Lower Upper
117 100
119 6.6 76.9 115.3#
121 0.0 23.2 34.8#

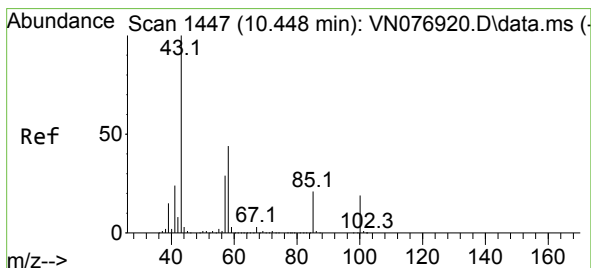
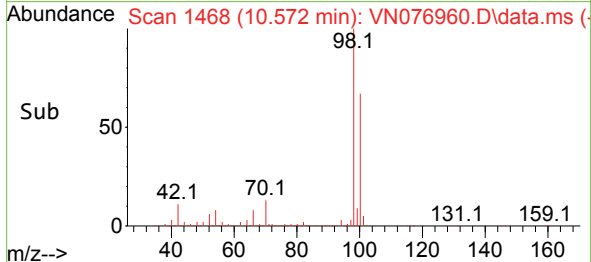
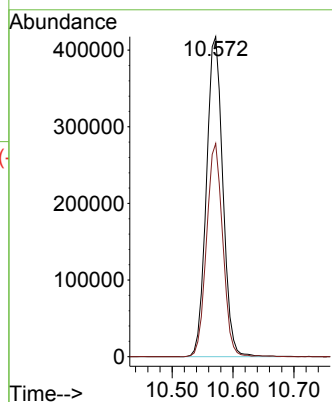
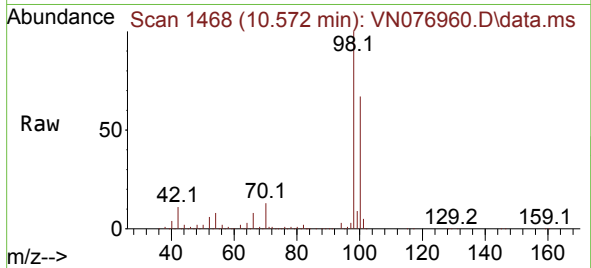




#50
Toluene-d8
Concen: 48.192 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN076960.D
Acq: 13 Mar 2023 14:31

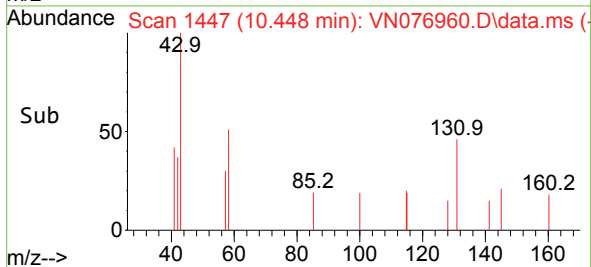
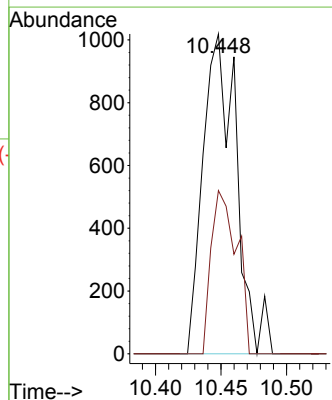
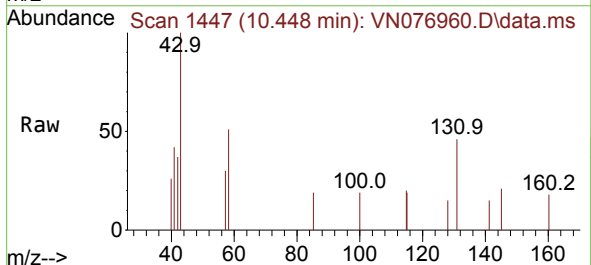
Instrument :
MSVOA_N
ClientSampleId :
TP-3

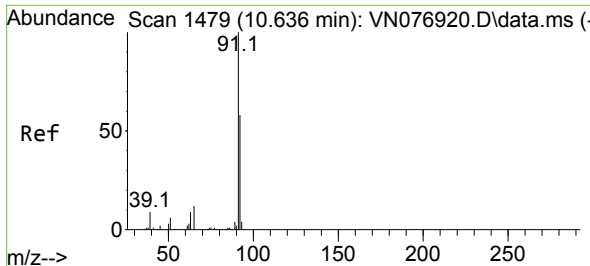
Tgt Ion: 98 Resp: 780699
Ion Ratio Lower Upper
98 100
100 65.7 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 0.312 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. 0.000 min
Lab File: VN076960.D
Acq: 13 Mar 2023 14:31

Tgt Ion: 43 Resp: 1798
Ion Ratio Lower Upper
43 100
58 39.6 37.4 56.0

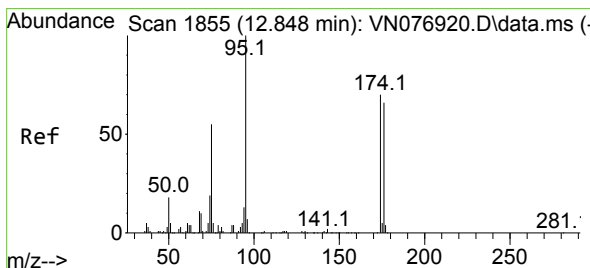
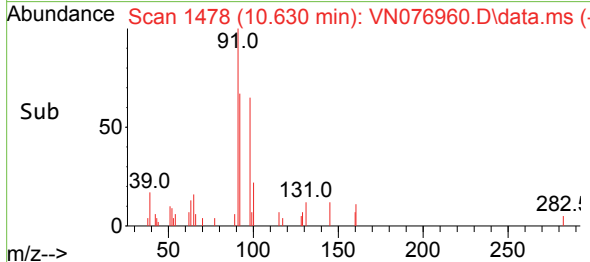
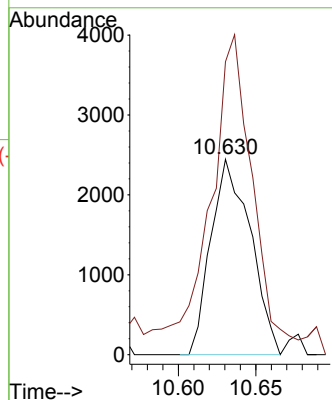
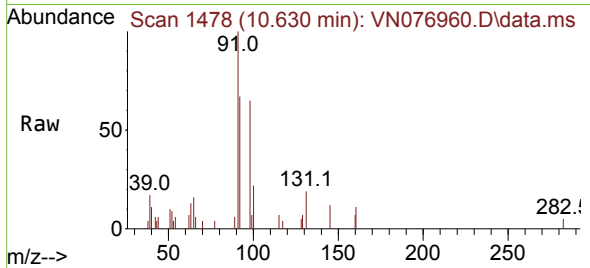




#52
Toluene
Concen: 0.352 ug/l
RT: 10.630 min Scan# 1478
Delta R.T. -0.006 min
Lab File: VN076960.D
Acq: 13 Mar 2023 14:31

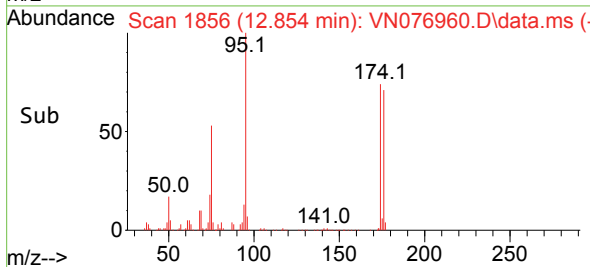
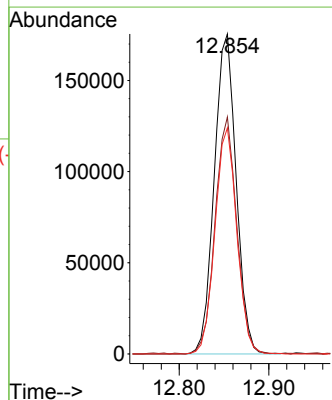
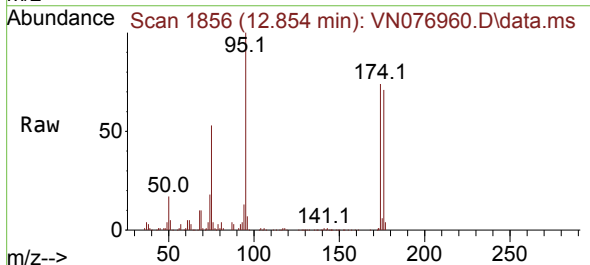
Instrument :
MSVOA_N
ClientSampleId :
TP-3

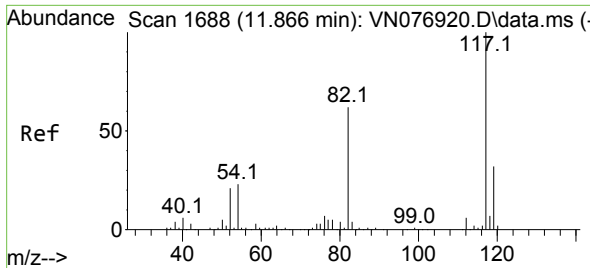
Tgt Ion: 92 Resp: 4346
Ion Ratio Lower Upper
92 100
91 156.8 138.2 207.2



#62
4-Bromofluorobenzene
Concen: 50.115 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN076960.D
Acq: 13 Mar 2023 14:31

Tgt Ion: 95 Resp: 296949
Ion Ratio Lower Upper
95 100
174 73.7 0.0 162.4
176 70.6 0.0 157.4

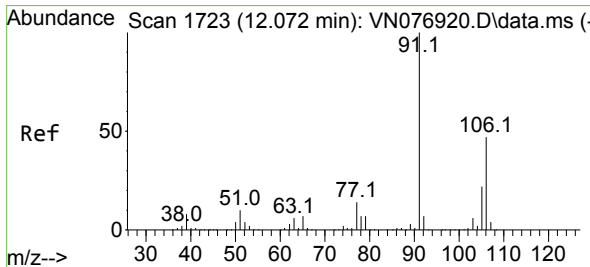
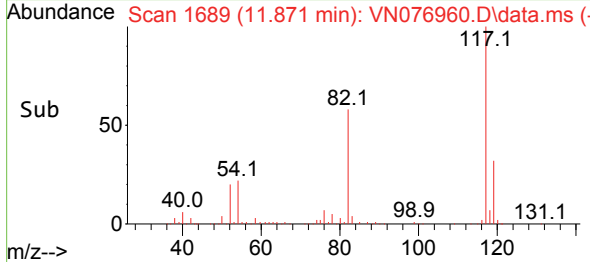
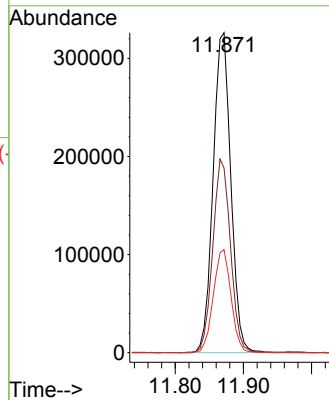
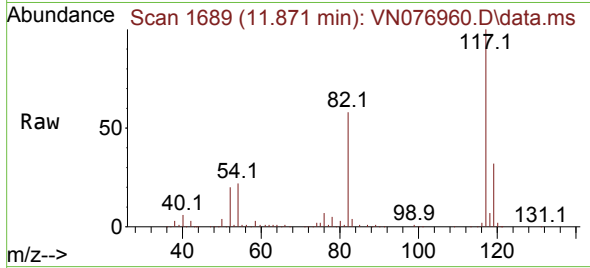




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.005 min
Lab File: VN076960.D
Acq: 13 Mar 2023 14:31

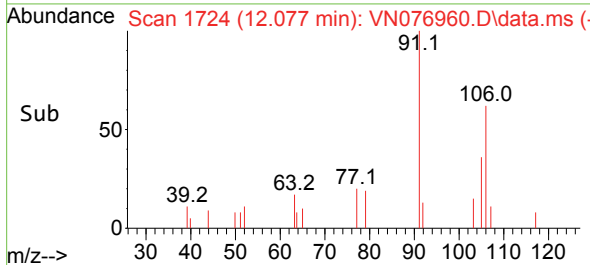
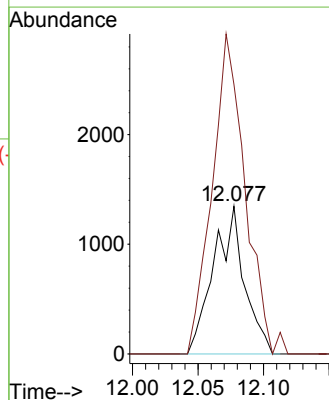
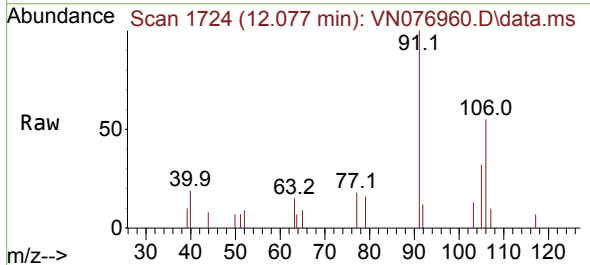
Instrument :
MSVOA_N
ClientSampleId :
TP-3

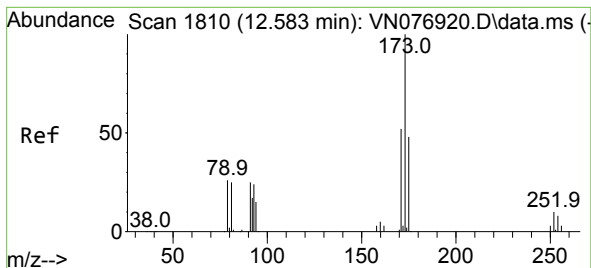
Tgt Ion:117 Resp: 590607
Ion Ratio Lower Upper
117 100
82 57.7 43.5 65.3
119 32.2 25.5 38.3



#68
m/p-Xylenes
Concen: 0.242 ug/l
RT: 12.077 min Scan# 1724
Delta R.T. 0.005 min
Lab File: VN076960.D
Acq: 13 Mar 2023 14:31

Tgt Ion:106 Resp: 2208
Ion Ratio Lower Upper
106 100
91 231.3 158.0 237.0





#71

Bromoform

Concen: 0.458 ug/l

RT: 12.854 min Scan# 1810

Delta R.T. 0.271 min

Lab File: VN076960.D

Acq: 13 Mar 2023 14:31

Instrument :

MSVOA_N

ClientSampleId :

TP-3

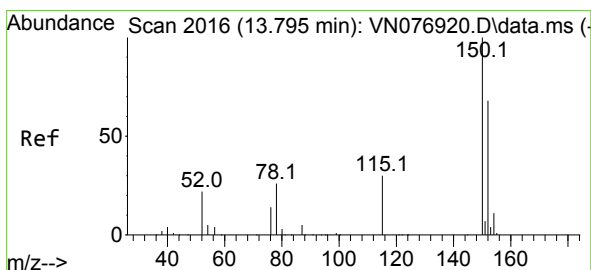
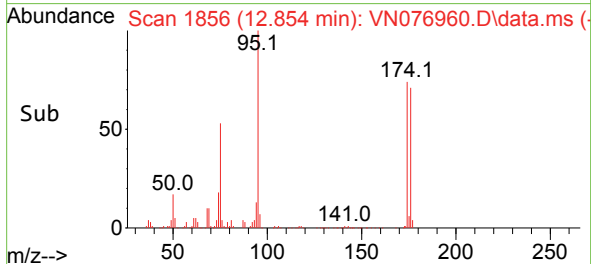
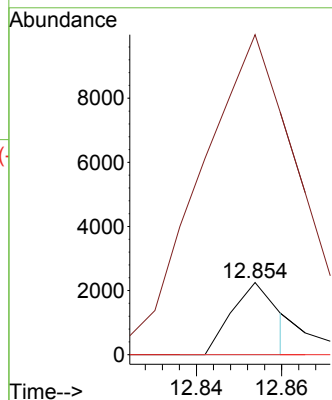
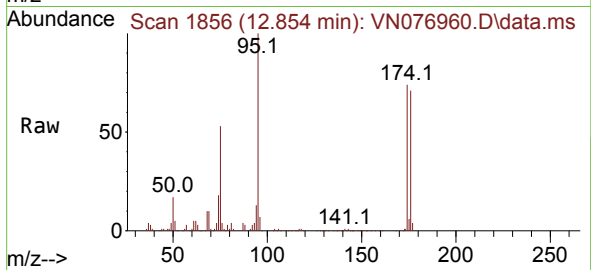
Tgt Ion:173 Resp: 1711

Ion Ratio Lower Upper

173 100

175 783.1 24.9 74.6#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN076960.D

Acq: 13 Mar 2023 14:31

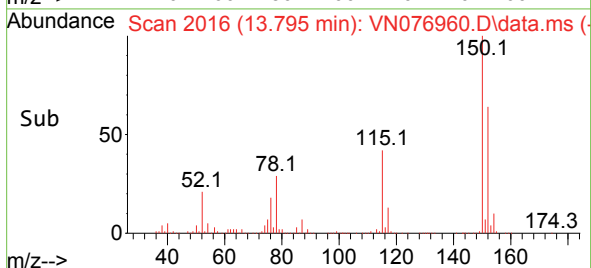
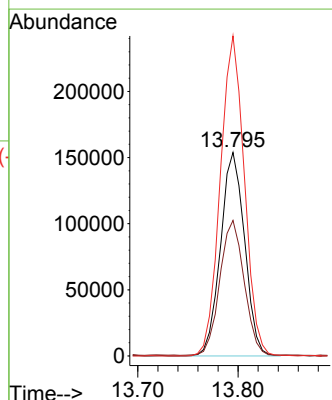
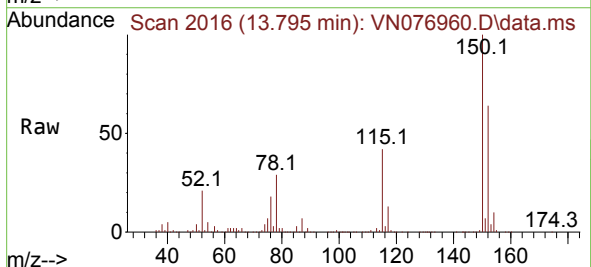
Tgt Ion:152 Resp: 256124

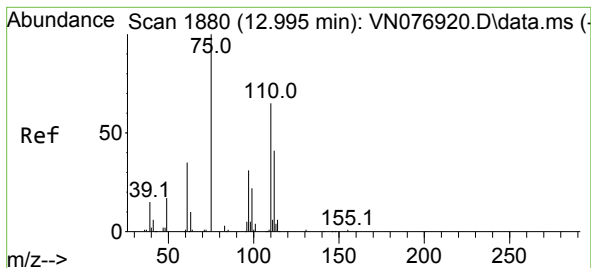
Ion Ratio Lower Upper

152 100

115 67.3 30.3 90.9

150 157.4 0.0 353.6





#76

1,2,3-Trichloropropane

Concen: 26.306 ug/l

RT: 12.848 min Scan# 1855

Delta R.T. -0.147 min

Lab File: VN076960.D

Acq: 13 Mar 2023 14:31

Instrument :

MSVOA_N

ClientSampleId :

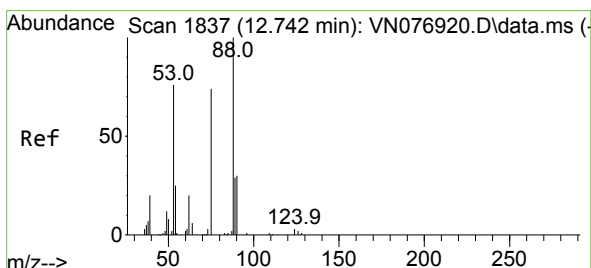
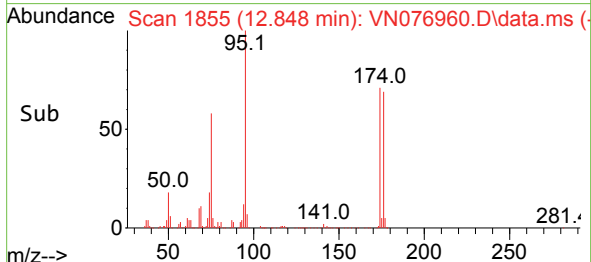
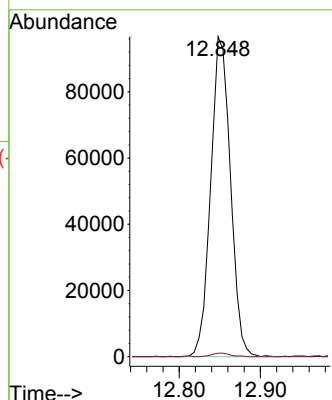
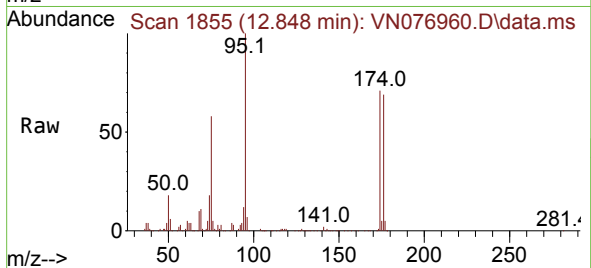
TP-3

Tgt Ion: 75 Resp: 163347

Ion Ratio Lower Upper

75 100

77 1.1 93.8 281.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 85.928 ug/l

RT: 12.848 min Scan# 1855

Delta R.T. 0.106 min

Lab File: VN076960.D

Acq: 13 Mar 2023 14:31

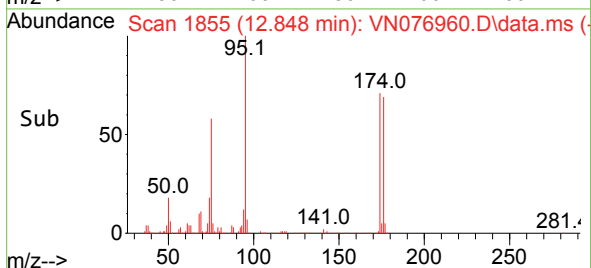
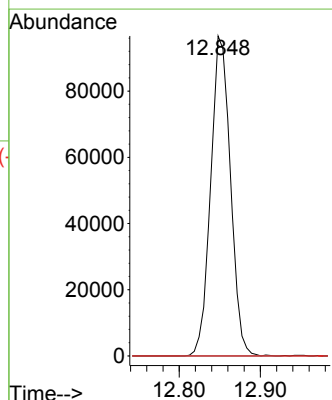
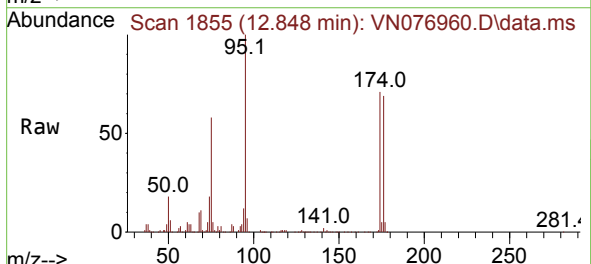
Tgt Ion: 75 Resp: 163347

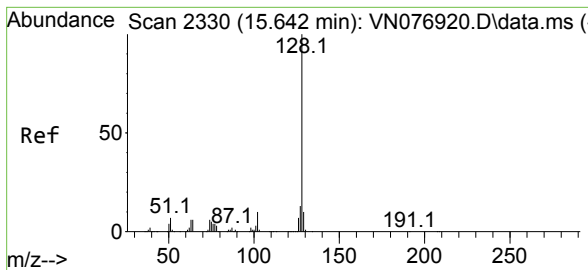
Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.0#

89 0.0 39.5 59.3#





#95
Naphthalene
Concen: 0.372 ug/l
RT: 15.648 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN076960.D
Acq: 13 Mar 2023 14:31

Instrument :
MSVOA_N
ClientSampleId :
TP-3

Tgt Ion:	128	Resp:	5754
Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.2	15.4
129	11.1	8.9	13.3

