

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011124\
 Data File : VN080678.D
 Acq On : 11 Jan 2024 16:03
 Operator : JC\MD
 Sample : P1102-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 12 05:24:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N011124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jan 12 05:20:11 2024
 Response via : Initial Calibration

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

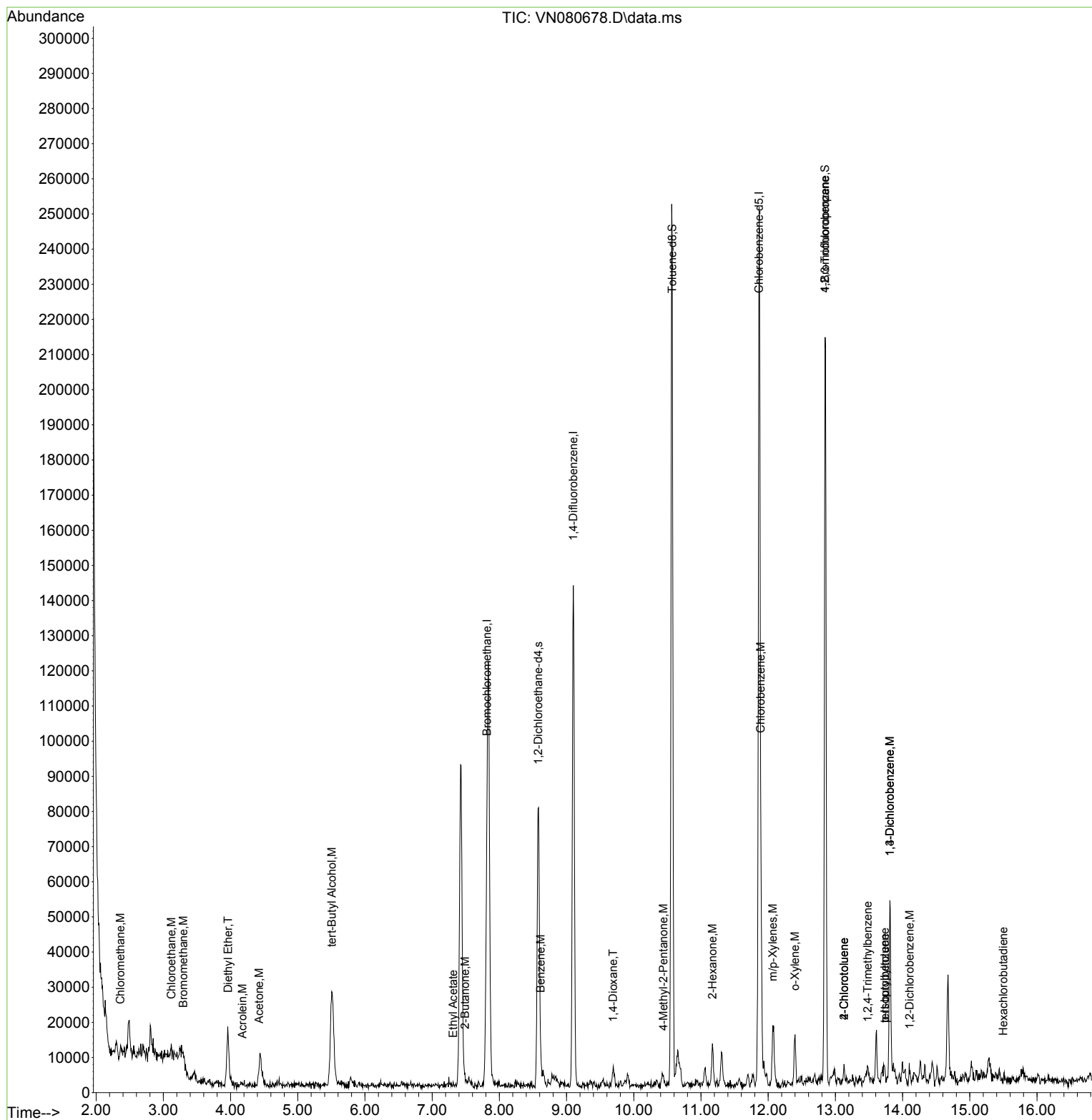
Internal Standards						
1) Bromochloromethane	7.818	128	12949	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	117961	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	125857	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	62785	30.025	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 100.067%	
60) 4-Bromofluorobenzene	12.847	95	78710	28.271	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 94.233%	
63) Toluene-d8	10.570	98	165361	29.938	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 99.800%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	2520	0.841	ug/l	92
5) Bromomethane	3.294	94	198	0.236	ug/l	92
6) Chloroethane	3.118	64	262	0.213	ug/l #	1
8) Diethyl Ether	3.965	74	8884	5.603	ug/l	79
13) Acrolein	4.177	56	240	0.724	ug/l #	62
15) Acetone	4.424	58	601	2.356	ug/l #	1
23) tert-Butyl Alcohol	5.506	59	52074	134.294	ug/l #	100
30) 2-Butanone	7.488	43	928	0.585	ug/l #	74
34) Benzene	8.612	78	7634	0.718	ug/l #	65
43) Ethyl Acetate	7.312	43	806	0.242	ug/l	99
45) 1,4-Dioxane	9.694	88	4027	111.326	ug/l #	91
58) 4-Methyl-2-Pentanone	10.441	43	982	0.297	ug/l #	84
59) 2-Hexanone	11.170	43	11069	4.478	ug/l #	28
64) Chlorobenzene	11.888	112	24597	4.363	ug/l #	87
67) m/p-Xylenes	12.070	106	5512	1.440	ug/l	91
68) o-Xylene	12.400	106	3362	0.881	ug/l	88
72) 1,2,3-Trichloropropane	12.847	75	43812	15.184	ug/l	1
75) 2-Chlorotoluene	13.129	91	1894	0.268	ug/l	90
78) 4-Chlorotoluene	13.129	91	1894	0.268	ug/l	89
79) tert-butylbenzene	13.735	119	2368	0.391	ug/l	34
80) 1,2,4-Trimethylbenzene	13.482	105	2397	0.316	ug/l	72
82) p-Isopropyltoluene	13.735	119	2368	0.348	ug/l	67
83) 1,3-Dichlorobenzene	13.811	146	18158	5.265	ug/l	96
84) 1,4-Dichlorobenzene	13.811	146	18158	5.228	ug/l	96
87) 1,2-Dichlorobenzene	14.106	146	964	0.285	ug/l	82
90) Hexachlorobutadiene	15.500	225	189	0.243	ug/l #	56

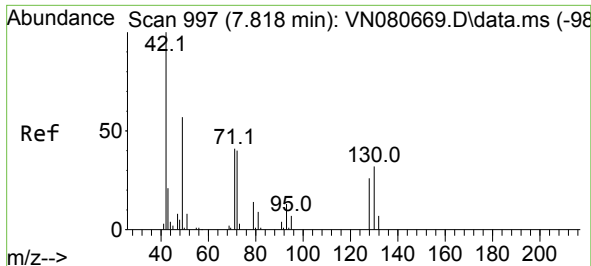
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011124\
Data File : VN080678.D
Acq On : 11 Jan 2024 16:03
Operator : JC\MD
Sample : P1102-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

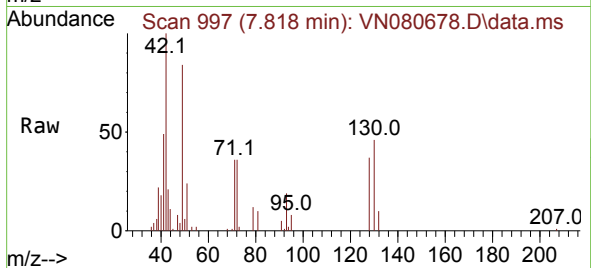
Quant Time: Jan 12 05:24:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N011124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jan 12 05:20:11 2024
Response via : Initial Calibration



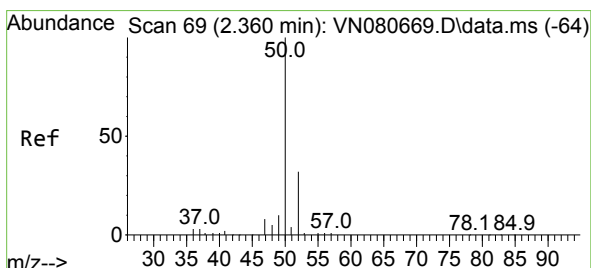
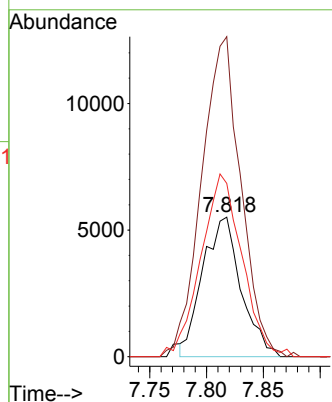
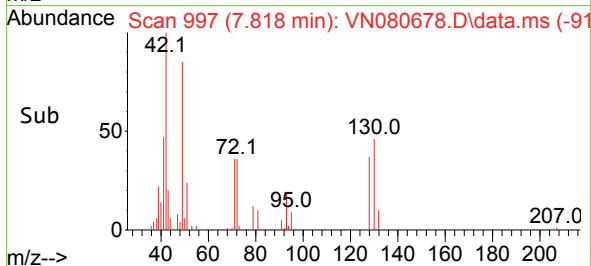


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.000 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03

Instrument :
MSVOA_N
ClientSampleId :

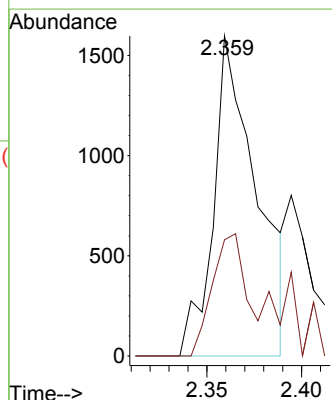
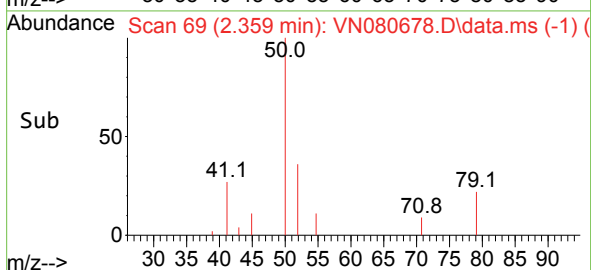
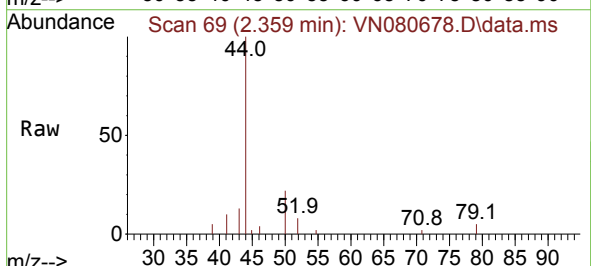


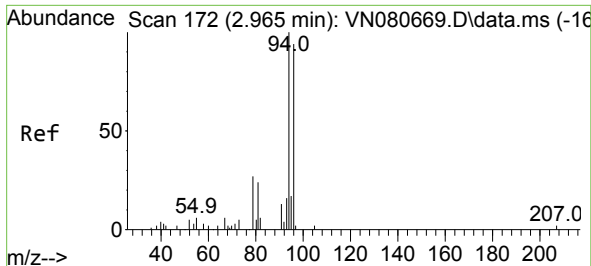
Tgt Ion:128 Resp: 12949
Ion Ratio Lower Upper
128 100
49 234.5 0.0 403.7
130 139.6 0.0 323.3



#3
Chloromethane
Concen: 0.841 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.001 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03

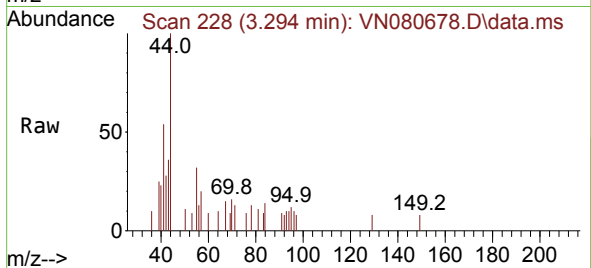
Tgt Ion: 50 Resp: 2520
Ion Ratio Lower Upper
50 100
52 36.3 25.4 38.0



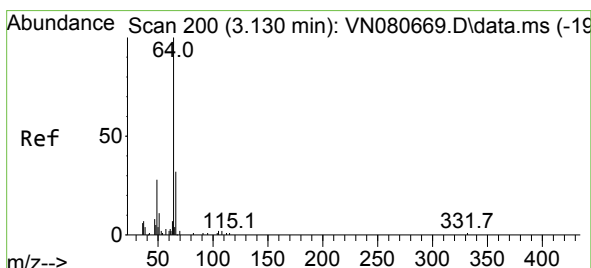
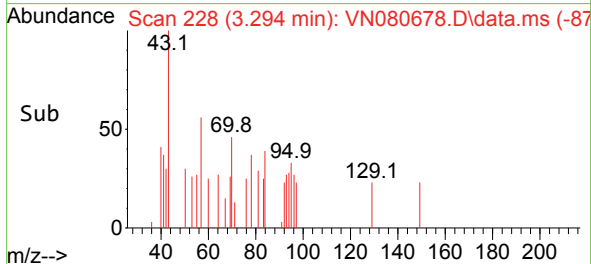
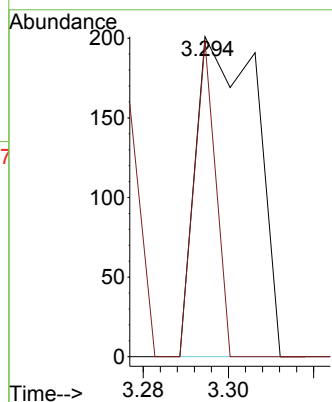


#5
Bromomethane
Concen: 0.236 ug/l
RT: 3.294 min Scan# 21
Delta R.T. 0.329 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03

Instrument :
MSVOA_N
ClientSampleId :

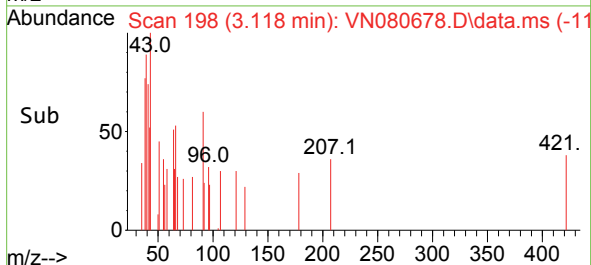
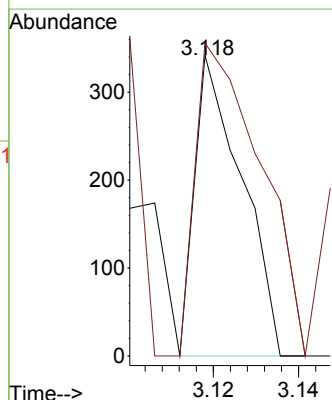
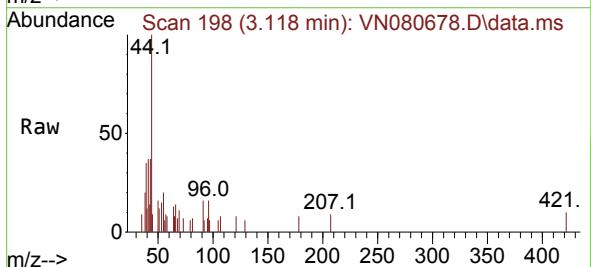


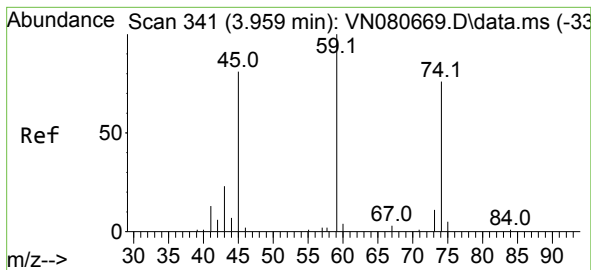
Tgt Ion: 94 Resp: 198
Ion Ratio Lower Upper
94 100
96 98.5 72.8 109.2



#6
Chloroethane
Concen: 0.213 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.012 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03

Tgt Ion: 64 Resp: 262
Ion Ratio Lower Upper
64 100
66 104.1 26.7 40.1#





#8

Diethyl Ether

Concen: 5.603 ug/l

RT: 3.965 min Scan# 341

Delta R.T. 0.006 min

Lab File: VN080678.D

Acq: 11 Jan 2024 16:03

Instrument :

MSVOA_N

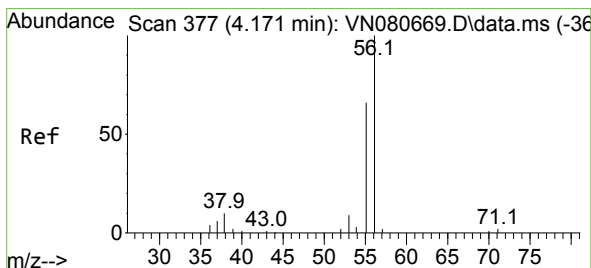
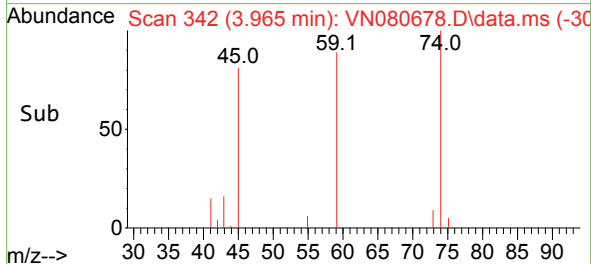
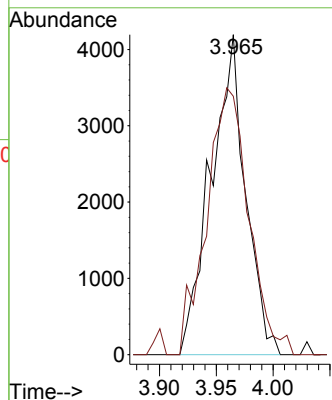
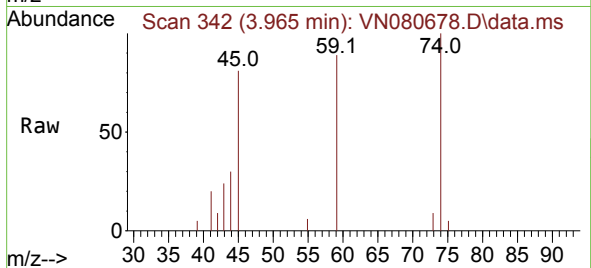
ClientSampleId :

Tgt Ion: 74 Resp: 8884

Ion Ratio Lower Upper

74 100

45 100.2 16.4 147.4



#13

Acrolein

Concen: 0.724 ug/l

RT: 4.177 min Scan# 378

Delta R.T. 0.006 min

Lab File: VN080678.D

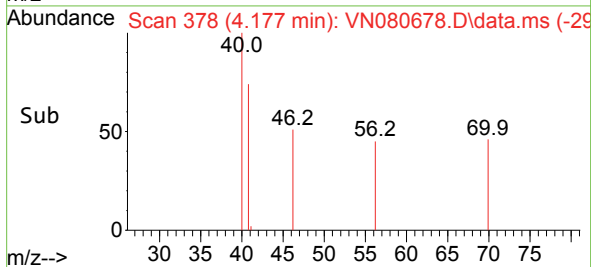
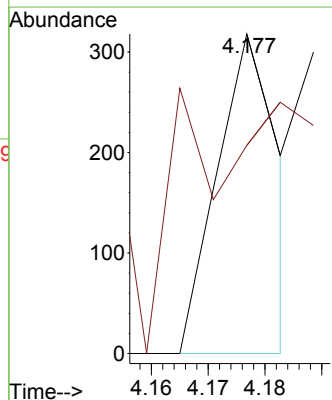
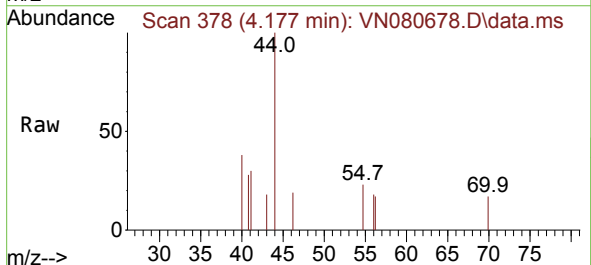
Acq: 11 Jan 2024 16:03

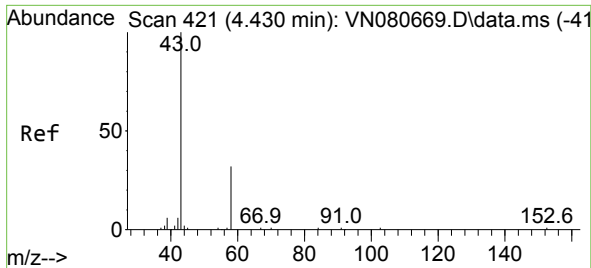
Tgt Ion: 56 Resp: 240

Ion Ratio Lower Upper

56 100

55 100.4 55.5 83.3#

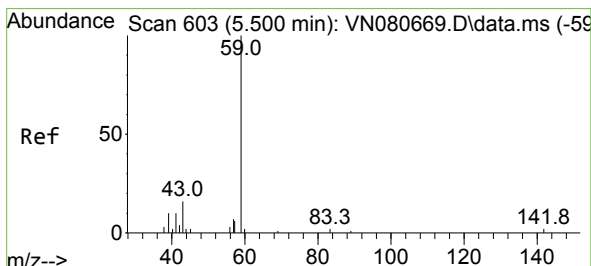
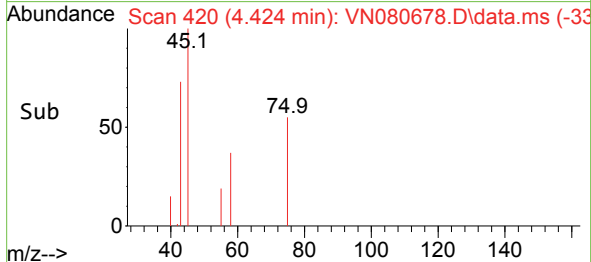
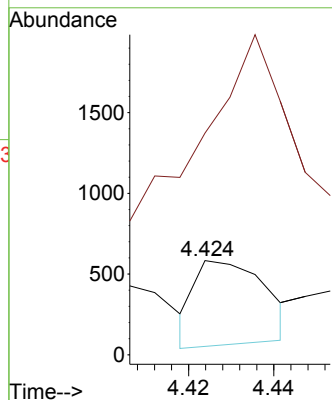
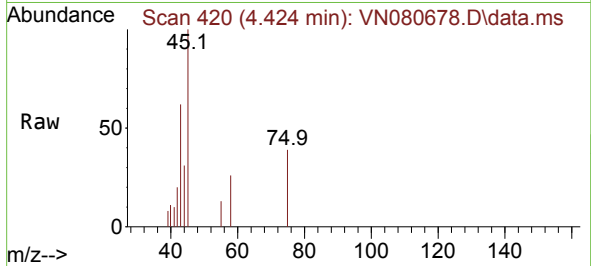




#15
Acetone
Concen: 2.356 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03

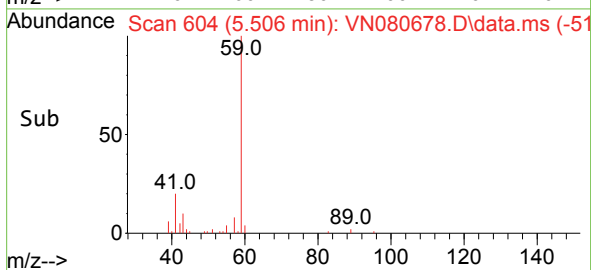
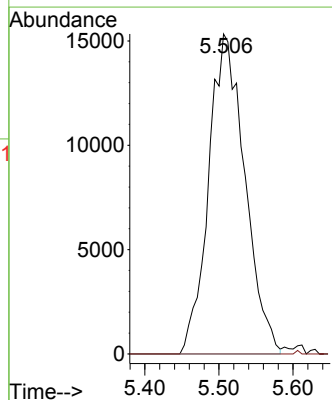
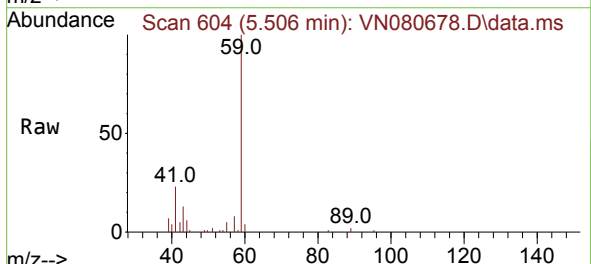
Instrument :
MSVOA_N
ClientSampleId :

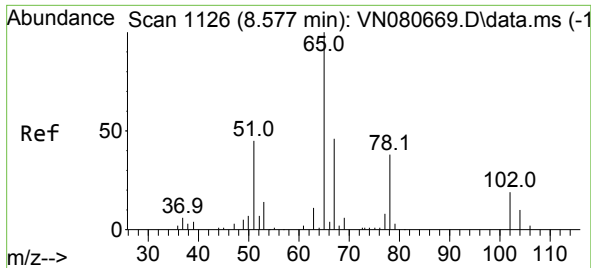
Tgt Ion: 58 Resp: 601
Ion Ratio Lower Upper
58 100
43 83.0 223.1 334.7#



#23
tert-Butyl Alcohol
Concen: 134.294 ug/l
RT: 5.506 min Scan# 604
Delta R.T. 0.006 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03

Tgt Ion: 59 Resp: 52074
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0





#27

1,2-Dichloroethane-d4

Concen: 30.025 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.001 min

Lab File: VN080678.D

Acq: 11 Jan 2024 16:03

Instrument :

MSVOA_N

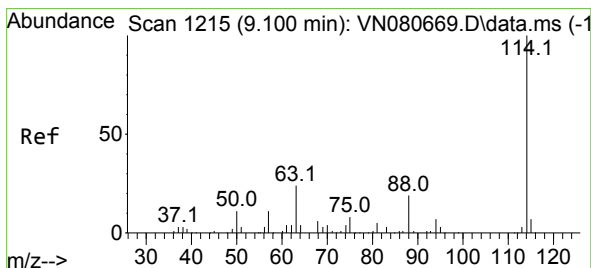
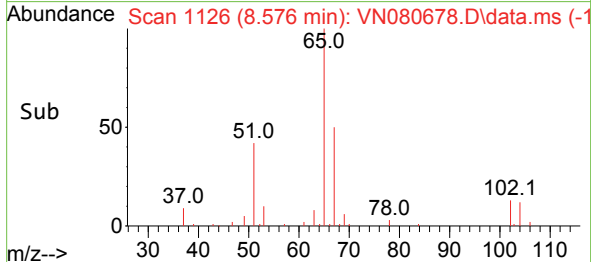
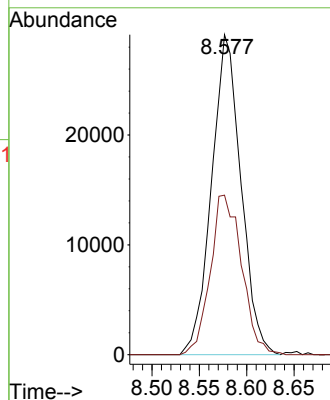
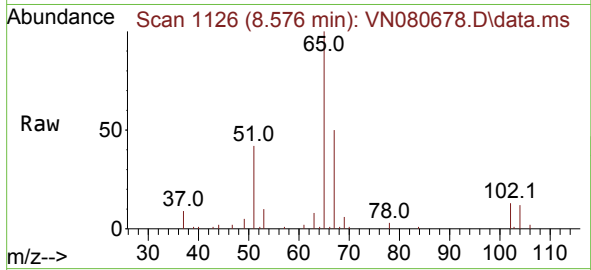
ClientSampleId :

Tgt Ion: 65 Resp: 62785

Ion Ratio Lower Upper

65 100

67 53.2 43.2 64.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN080678.D

Acq: 11 Jan 2024 16:03

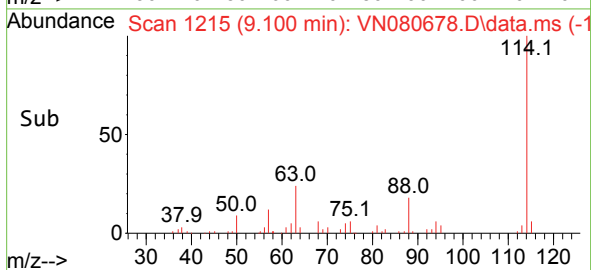
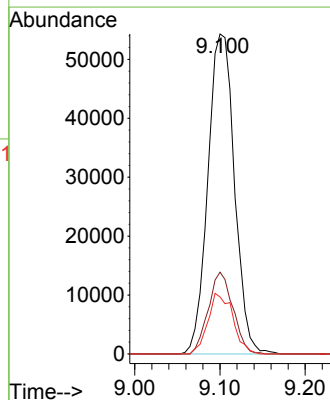
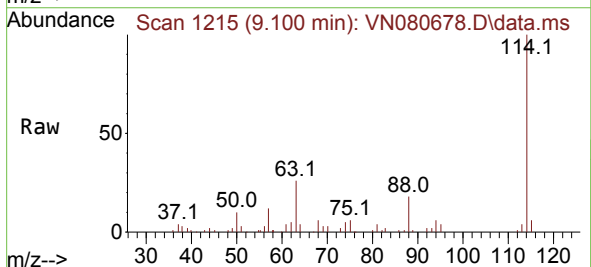
Tgt Ion: 114 Resp: 117961

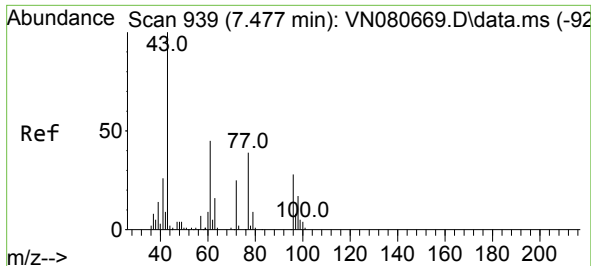
Ion Ratio Lower Upper

114 100

63 23.6 15.9 23.9

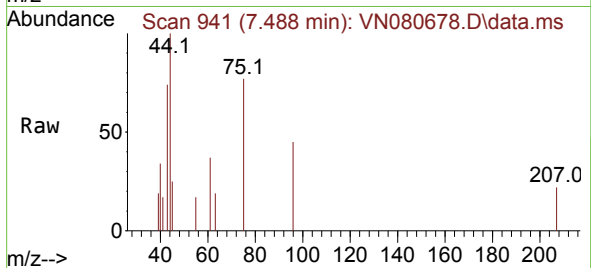
88 17.8 12.7 19.1



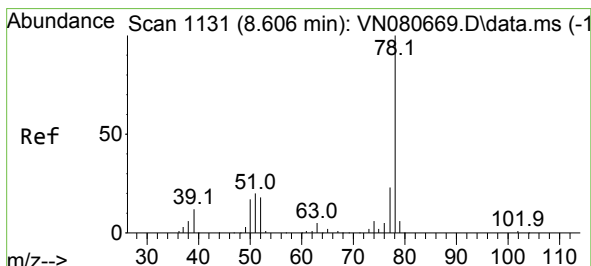
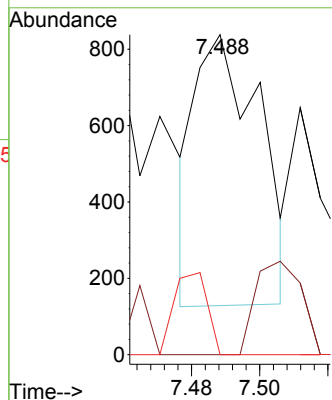
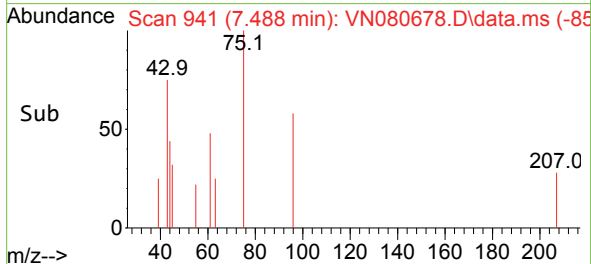


#30
2-Butanone
Concen: 0.585 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.011 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03

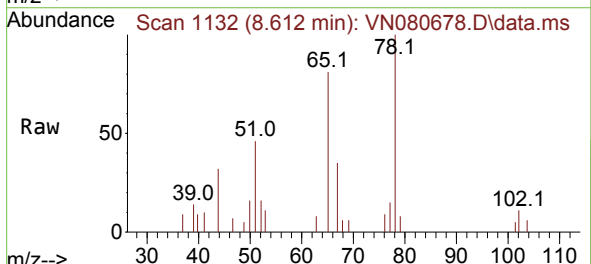
Instrument :
MSVOA_N
ClientSampleId :



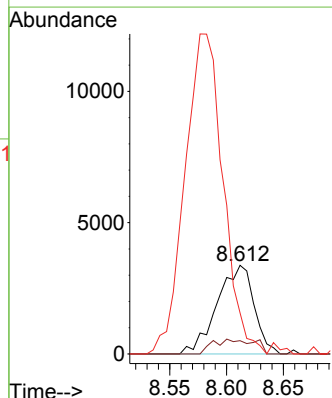
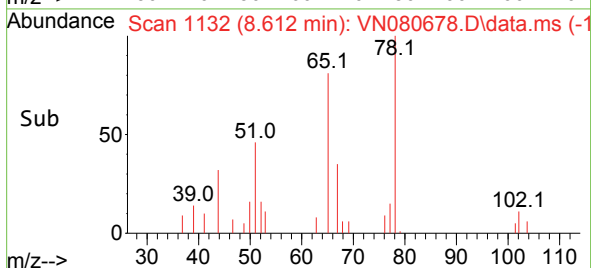
Tgt Ion: 43 Resp: 928
Ion Ratio Lower Upper
43 100
57 0.0 6.7 10.1#
72 15.7 24.0 36.0#

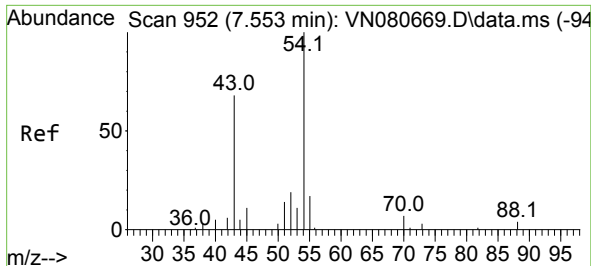


#34
Benzene
Concen: 0.718 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03



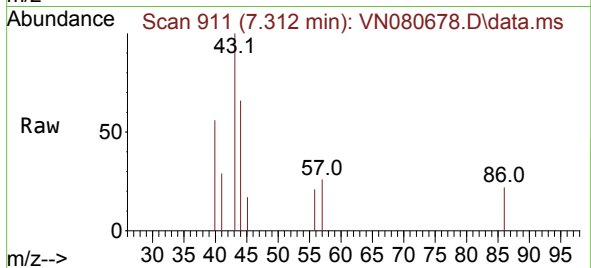
Tgt Ion: 78 Resp: 7634
Ion Ratio Lower Upper
78 100
77 15.0 19.2 28.8#
51 41.7 13.3 19.9#



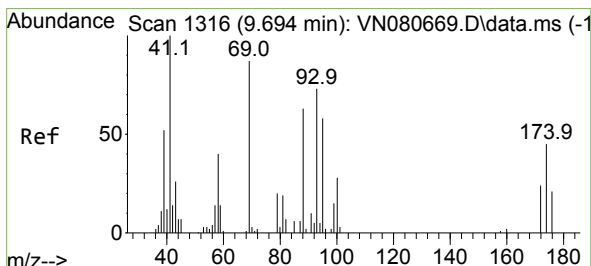
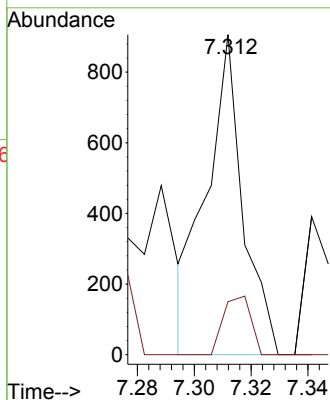
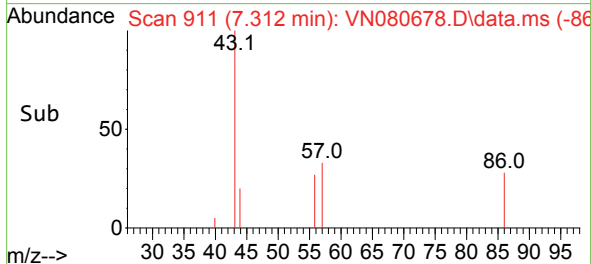


#43
Ethyl Acetate
Concen: 0.242 ug/l
RT: 7.312 min Scan# 911
Delta R.T. -0.241 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03

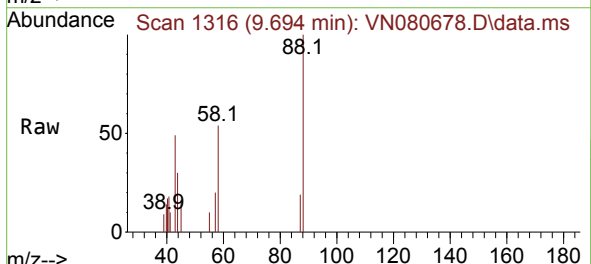
Instrument :
MSVOA_N
ClientSampleId :



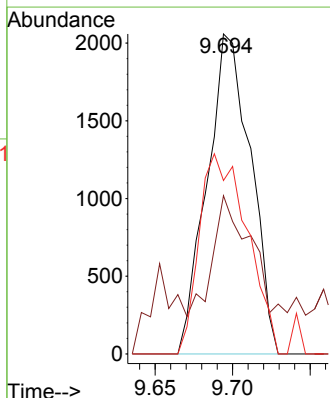
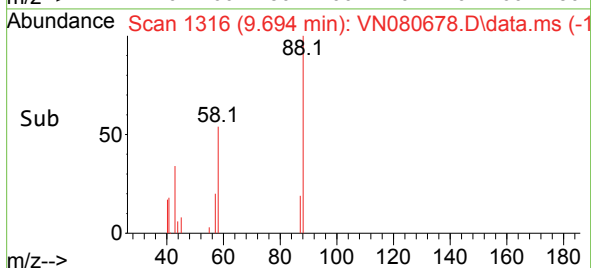
Tgt Ion: 43 Resp: 806
Ion Ratio Lower Upper
43 100
45 13.8 10.6 15.8

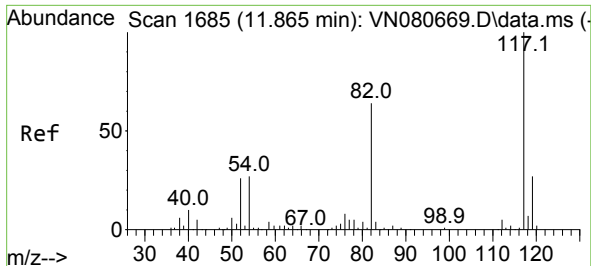


#45
1,4-Dioxane
Concen: 111.326 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.000 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03



Tgt Ion: 88 Resp: 4027
Ion Ratio Lower Upper
88 100
43 40.5 19.8 29.6#
58 68.8 55.4 83.0

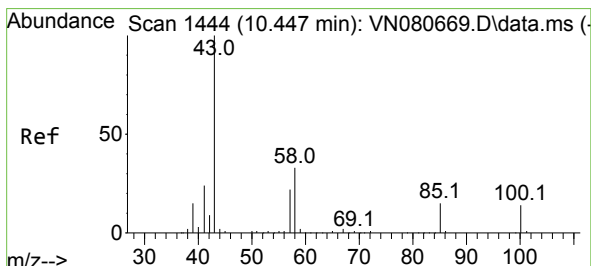
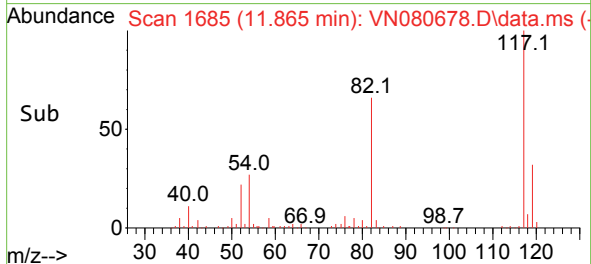
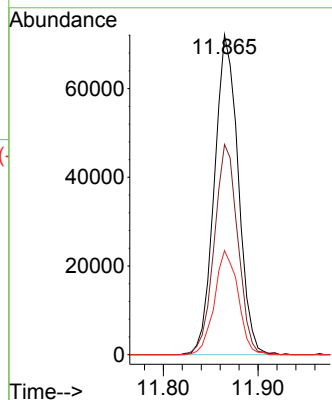
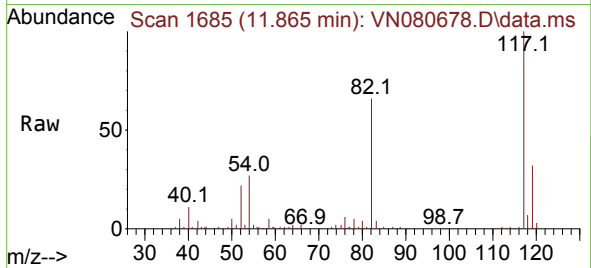




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03

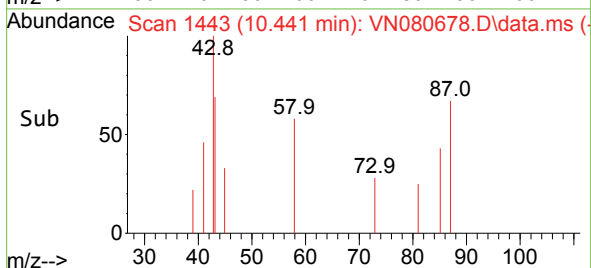
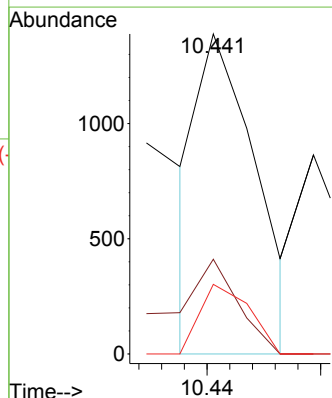
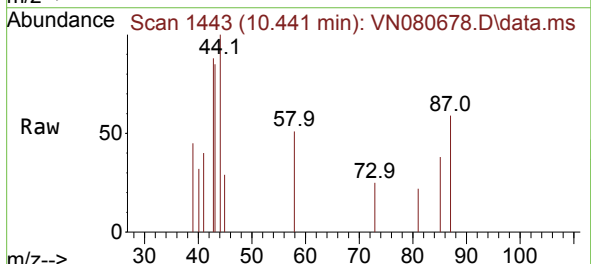
Instrument :
MSVOA_N
ClientSampleId :

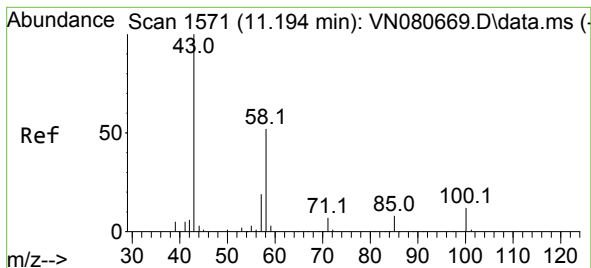
Tgt Ion:117 Resp: 125857
Ion Ratio Lower Upper
117 100
82 65.3 46.6 69.8
119 32.3 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 0.297 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03

Tgt Ion: 43 Resp: 982
Ion Ratio Lower Upper
43 100
58 33.1 36.5 54.7#
85 18.7 19.5 29.3#

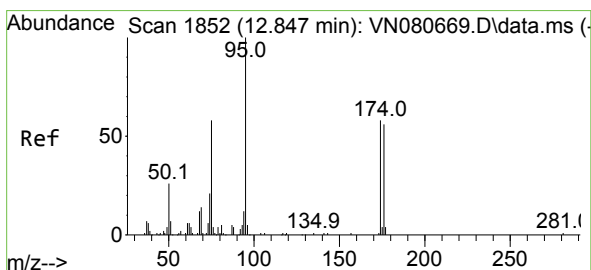
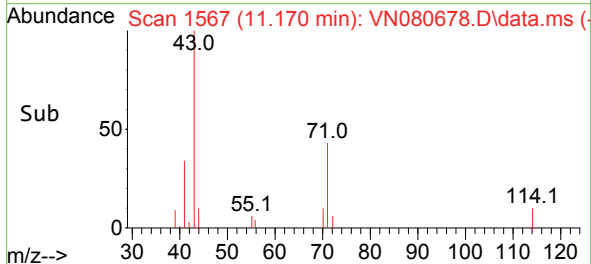
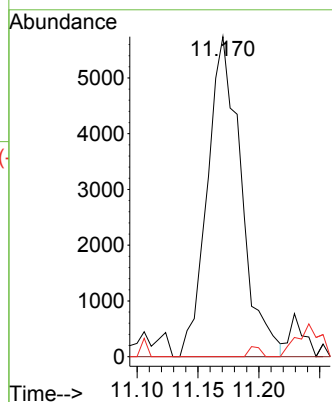
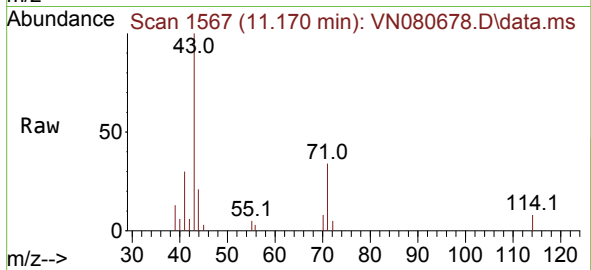




#59
2-Hexanone
Concen: 4.478 ug/l
RT: 11.170 min Scan# 11069
Delta R.T. -0.024 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03

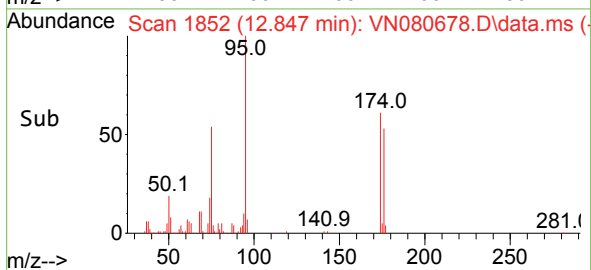
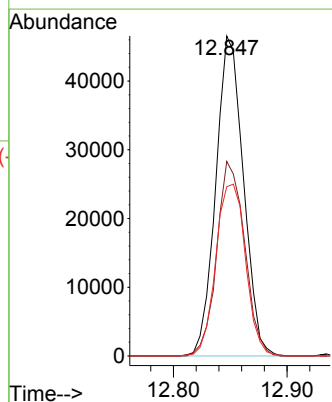
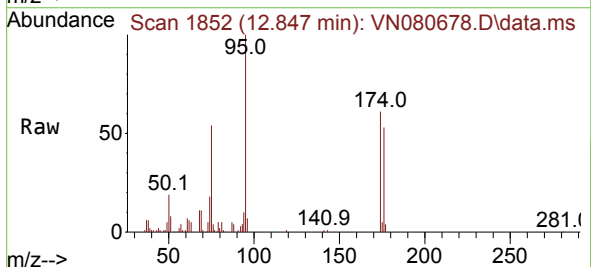
Instrument :
MSVOA_N
ClientSampleId :

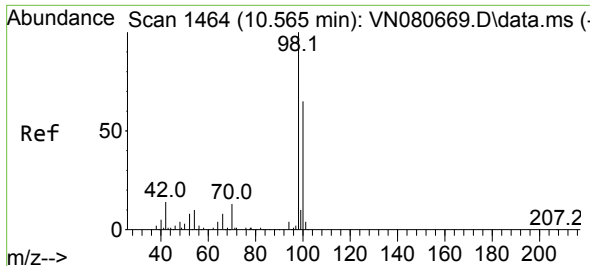
Tgt Ion: 43 Resp: 11069
Ion Ratio Lower Upper
43 100
58 0.0 50.4 75.6#
57 1.1 18.6 27.8#



#60
4-Bromofluorobenzene
Concen: 28.271 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03

Tgt Ion: 95 Resp: 78710
Ion Ratio Lower Upper
95 100
174 61.5 60.5 90.7
176 57.8 57.8 86.6

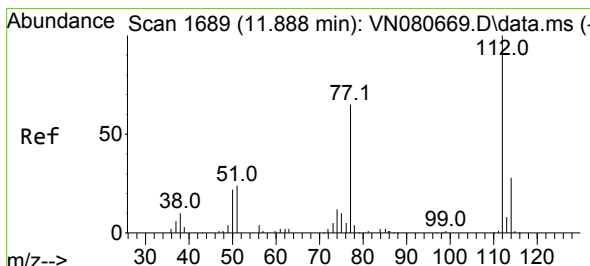
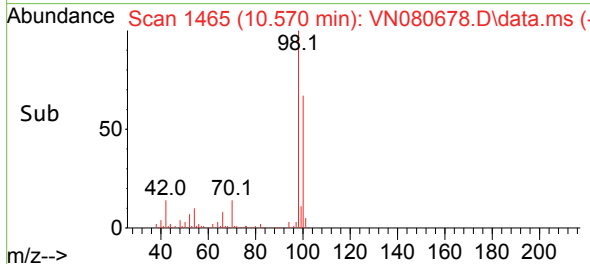
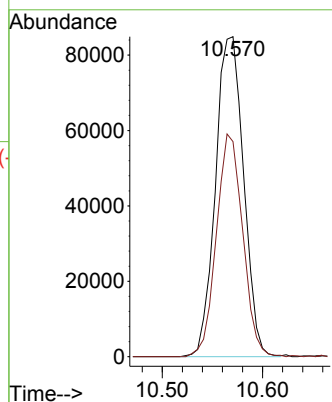
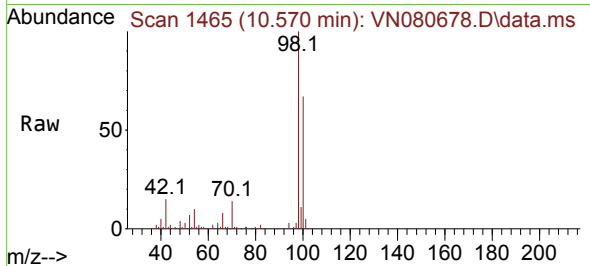




#63
Toluene-d8
Concen: 29.938 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. 0.005 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03

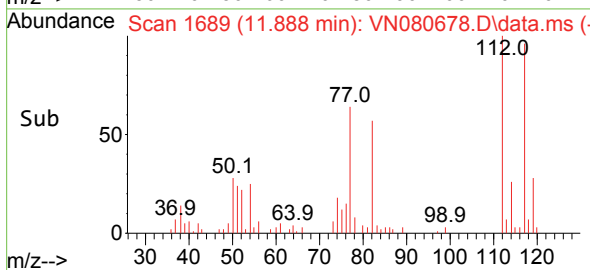
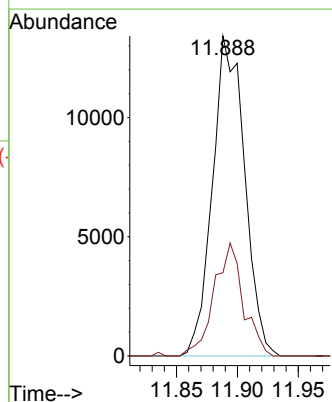
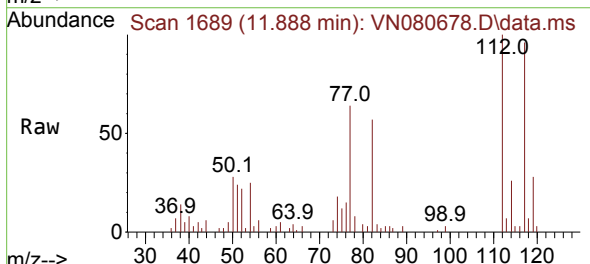
Instrument :
MSVOA_N
ClientSampleId :

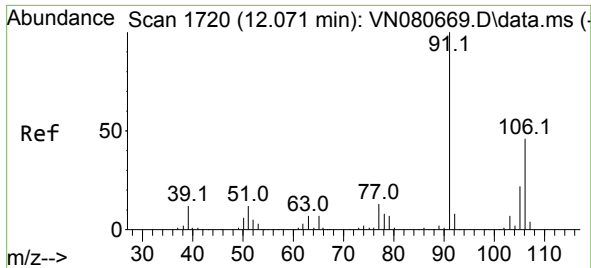
Tgt Ion: 98 Resp: 165361
Ion Ratio Lower Upper
98 100
100 65.2 52.7 79.1



#64
Chlorobenzene
Concen: 4.363 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03

Tgt Ion: 112 Resp: 24597
Ion Ratio Lower Upper
112 100
114 26.0 26.6 39.8#

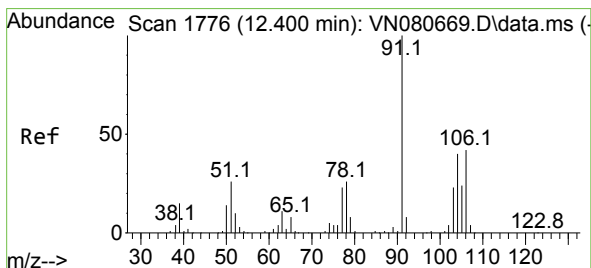
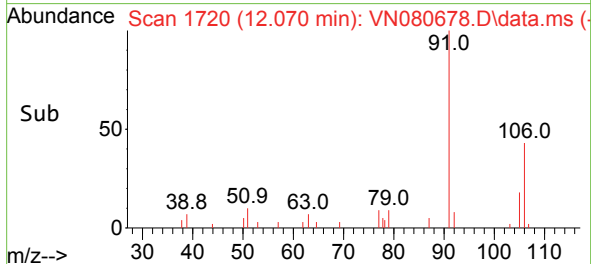
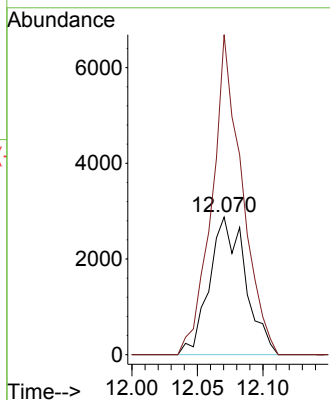
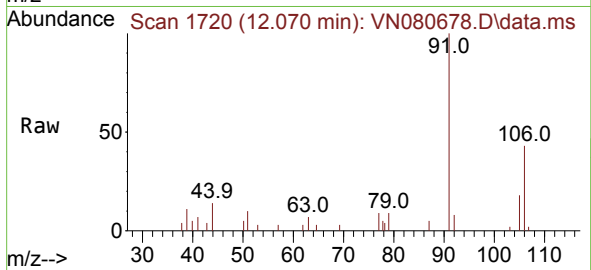




#67
m/p-Xylenes
Concen: 1.440 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.001 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03

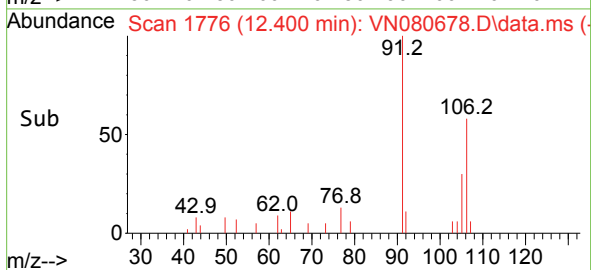
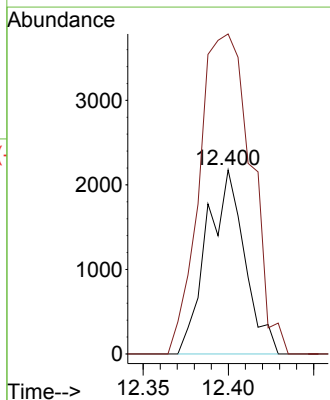
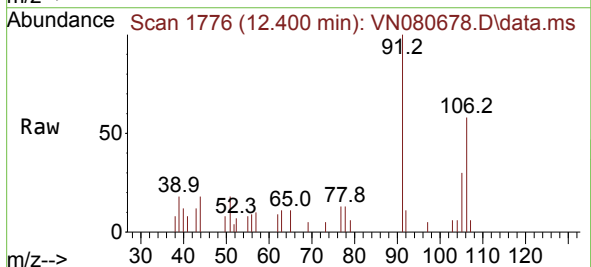
Instrument :
MSVOA_N
ClientSampleId :

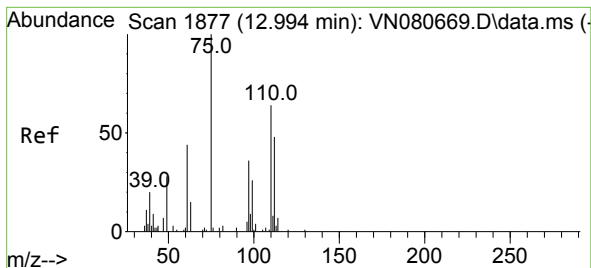
Tgt Ion:106 Resp: 5512
Ion Ratio Lower Upper
106 100
91 193.8 166.6 249.8



#68
o-Xylene
Concen: 0.881 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03

Tgt Ion:106 Resp: 3362
Ion Ratio Lower Upper
106 100
91 238.5 110.0 330.0





#72

1,2,3-Trichloropropane

Concen: 15.184 ug/l

RT: 12.847 min Scan# 11

Delta R.T. -0.147 min

Lab File: VN080678.D

Acq: 11 Jan 2024 16:03

Instrument :

MSVOA_N

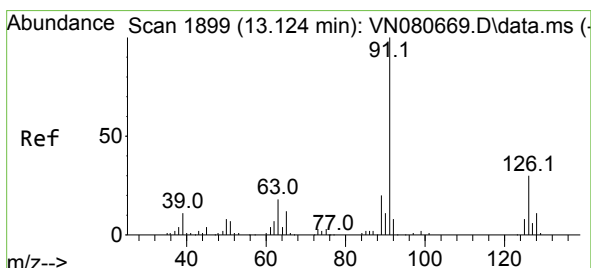
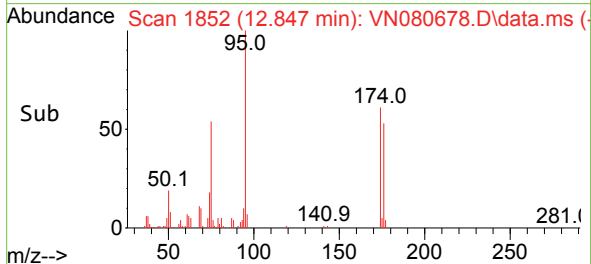
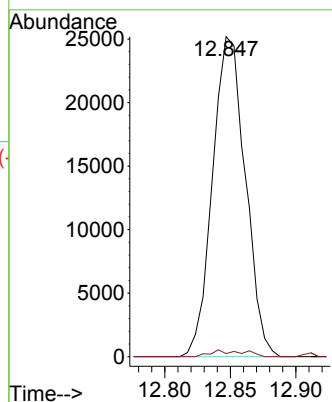
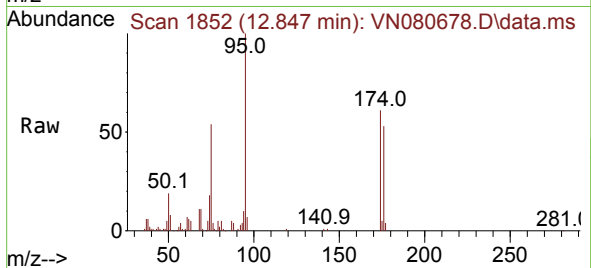
ClientSampleId :

Tgt Ion: 75 Resp: 43812

Ion Ratio Lower Upper

75 100

77 1.0 0.0 367.6



#75

2-Chlorotoluene

Concen: 0.268 ug/l

RT: 13.129 min Scan# 1900

Delta R.T. 0.005 min

Lab File: VN080678.D

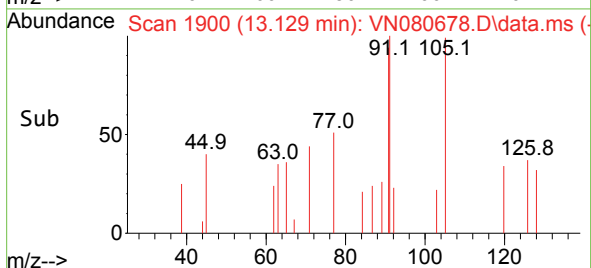
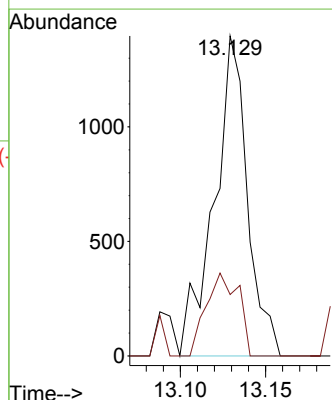
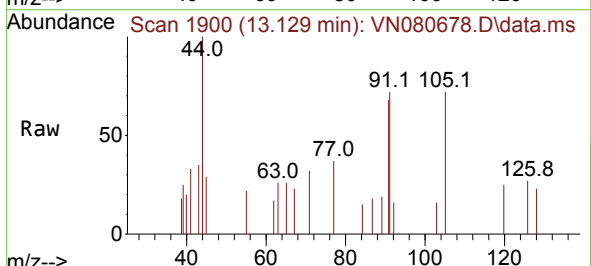
Acq: 11 Jan 2024 16:03

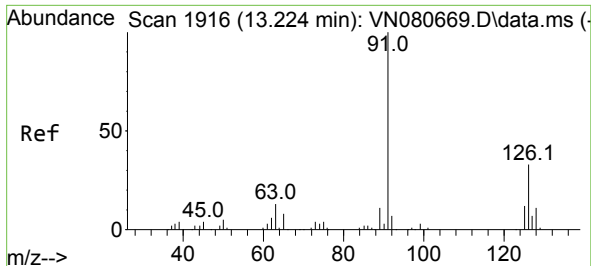
Tgt Ion: 91 Resp: 1894

Ion Ratio Lower Upper

91 100

126 25.2 0.0 61.2

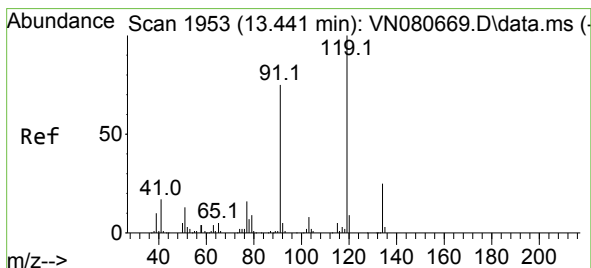
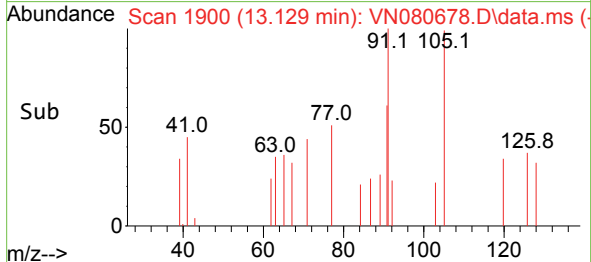
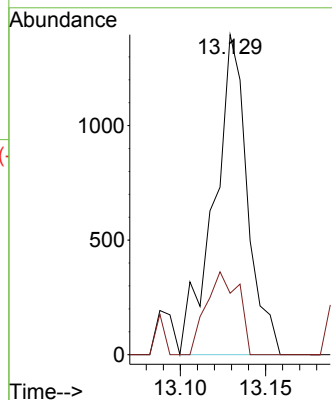
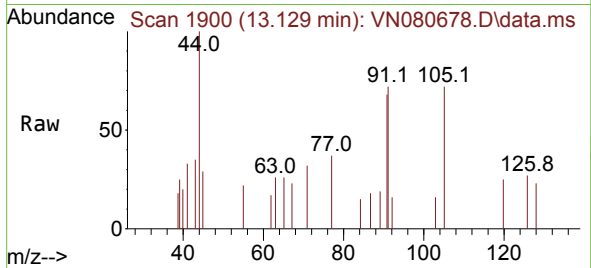




#78
4-Chlorotoluene
Concen: 0.268 ug/l
RT: 13.129 min Scan# 1916
Delta R.T. -0.095 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03

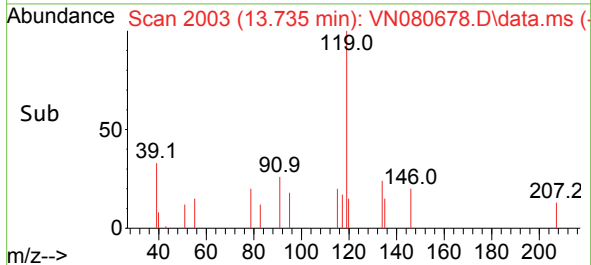
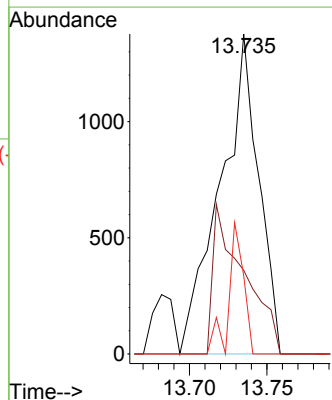
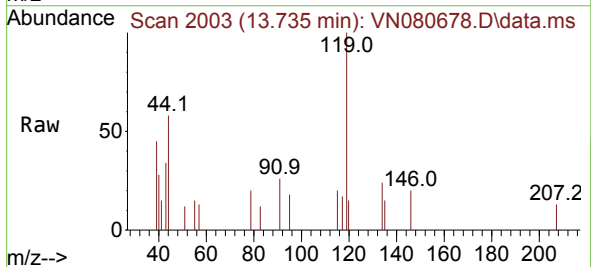
Instrument :
MSVOA_N
ClientSampleId :

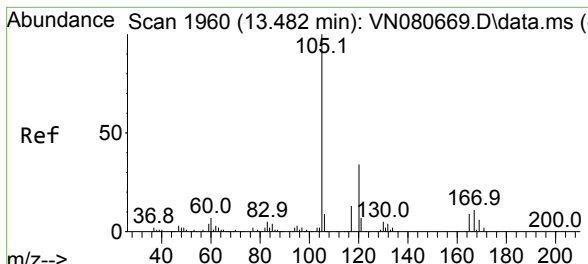
Tgt Ion: 91 Resp: 1894
Ion Ratio Lower Upper
91 100
126 25.2 0.0 62.8



#79
tert-butylbenzene
Concen: 0.391 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.294 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03

Tgt Ion: 119 Resp: 2368
Ion Ratio Lower Upper
119 100
91 2.9 0.0 138.8
134 13.5 0.0 48.6

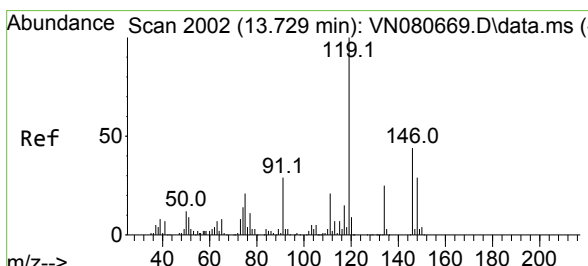
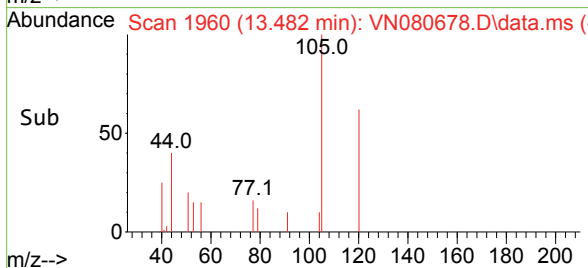
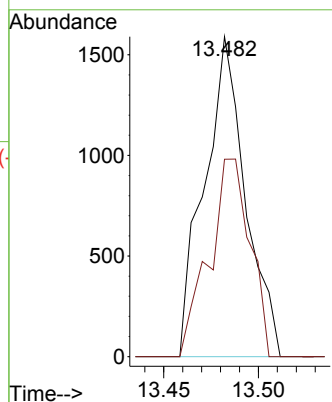
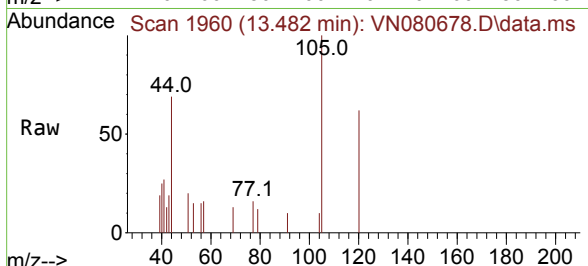




#80
 1,2,4-Trimethylbenzene
 Concen: 0.316 ug/l
 RT: 13.482 min Scan# 1960
 Delta R.T. 0.000 min
 Lab File: VN080678.D
 Acq: 11 Jan 2024 16:03

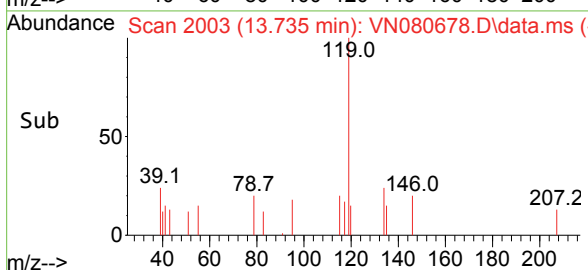
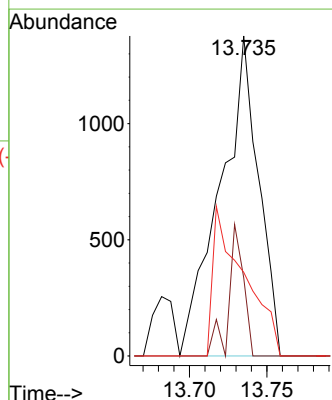
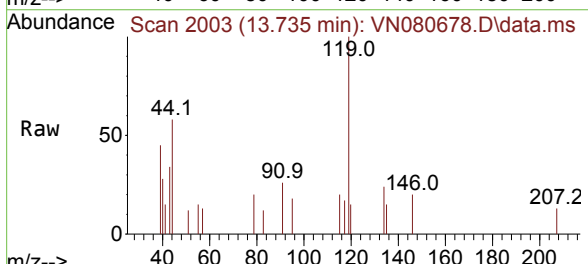
Instrument :
 MSVOA_N
 ClientSampleId :

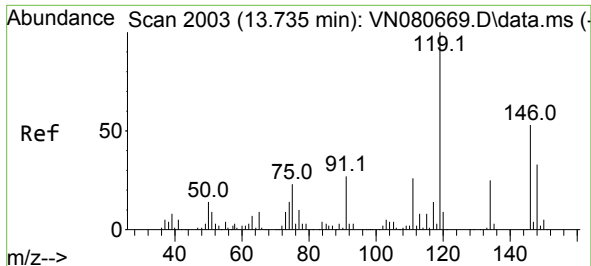
Tgt Ion:105 Resp: 2397
 Ion Ratio Lower Upper
 105 100
 120 61.6 0.0 86.8



#82
 p-Isopropyltoluene
 Concen: 0.348 ug/l
 RT: 13.735 min Scan# 2003
 Delta R.T. 0.006 min
 Lab File: VN080678.D
 Acq: 11 Jan 2024 16:03

Tgt Ion:119 Resp: 2368
 Ion Ratio Lower Upper
 119 100
 134 13.5 0.0 49.2
 91 2.9 0.0 48.8

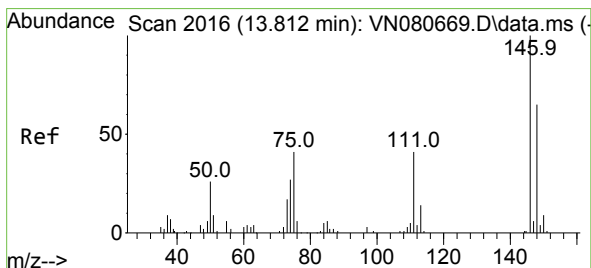
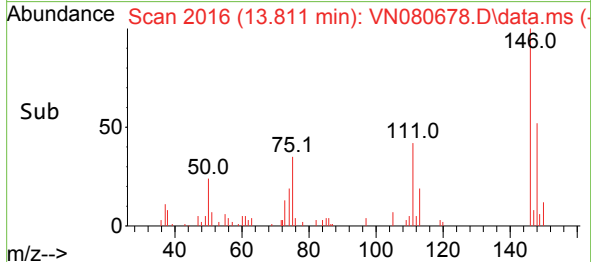
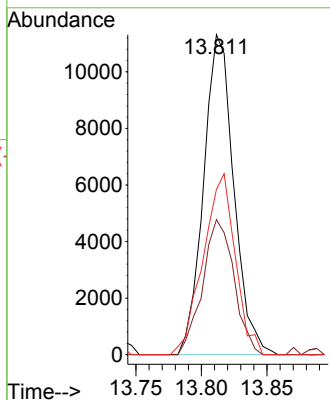
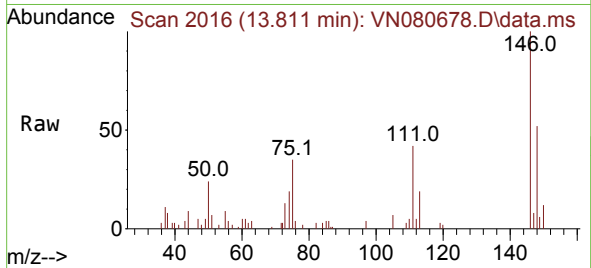




#83
 1,3-Dichlorobenzene
 Concen: 5.265 ug/l
 RT: 13.811 min Scan# 2016
 Delta R.T. 0.076 min
 Lab File: VN080678.D
 Acq: 11 Jan 2024 16:03

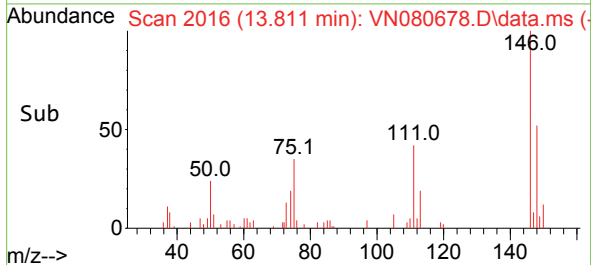
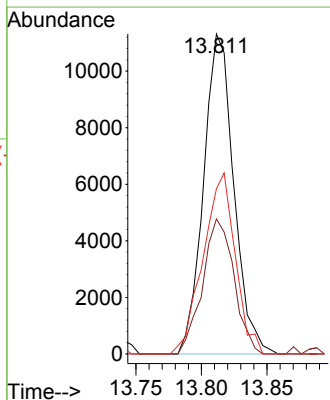
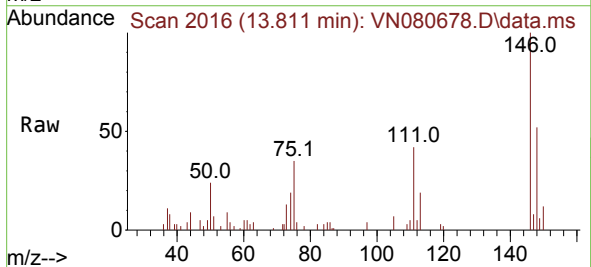
Instrument :
 MSVOA_N
 ClientSampleId :

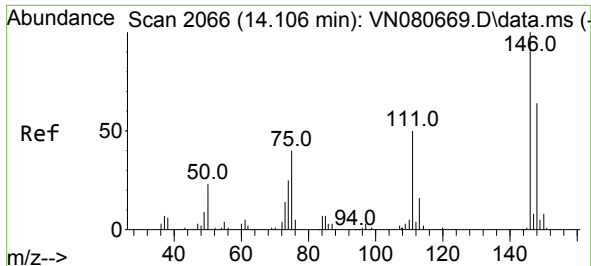
Tgt Ion:146 Resp: 18158
 Ion Ratio Lower Upper
 146 100
 111 43.8 22.4 67.0
 148 59.9 32.1 96.5



#84
 1,4-Dichlorobenzene
 Concen: 5.228 ug/l
 RT: 13.811 min Scan# 2016
 Delta R.T. -0.001 min
 Lab File: VN080678.D
 Acq: 11 Jan 2024 16:03

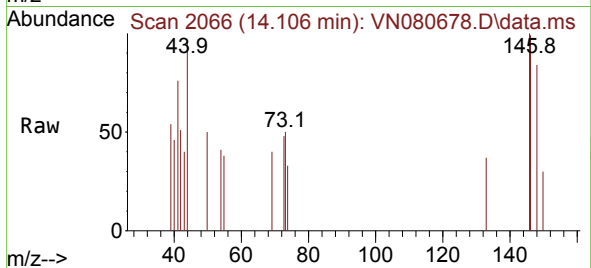
Tgt Ion:146 Resp: 18158
 Ion Ratio Lower Upper
 146 100
 111 43.8 21.3 63.9
 148 59.9 31.9 95.5



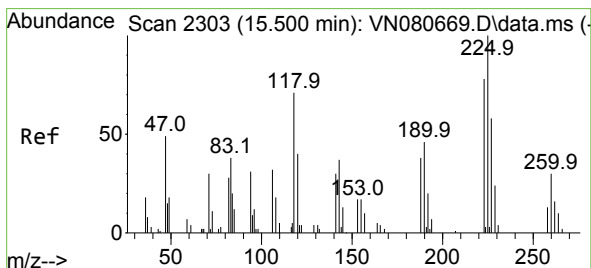
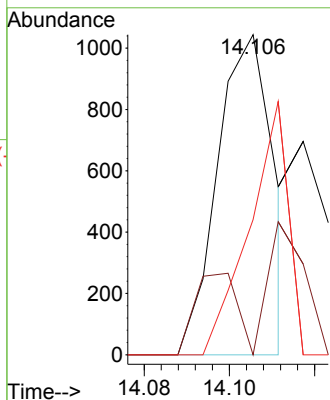
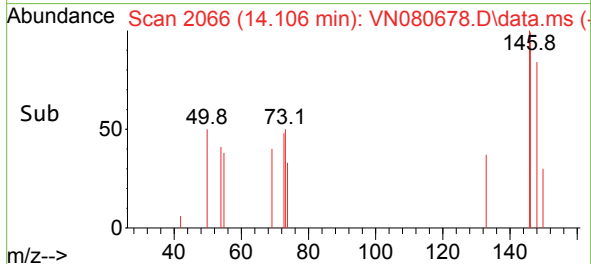


#87
1,2-Dichlorobenzene
Concen: 0.285 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03

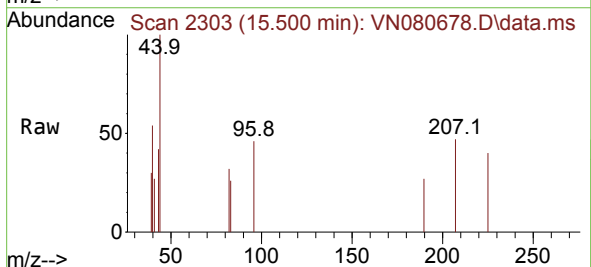
Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:146	Resp:	964
Ion	Ratio	Lower Upper
146	100	
111	26.8	22.6 67.8
148	54.0	31.3 93.8



#90
Hexachlorobutadiene
Concen: 0.243 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN080678.D
Acq: 11 Jan 2024 16:03



Tgt Ion:225	Resp:	189
Ion	Ratio	Lower Upper
225	100	
223	0.0	0.0 126.6
227	68.8	0.0 126.6

