

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010324\
 Data File : VN080633.D
 Acq On : 03 Jan 2024 12:22
 Operator : JC\MD
 Sample : VN0103WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 04 01:56:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122723W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 28 03:07:01 2023
 Response via : Initial Calibration

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

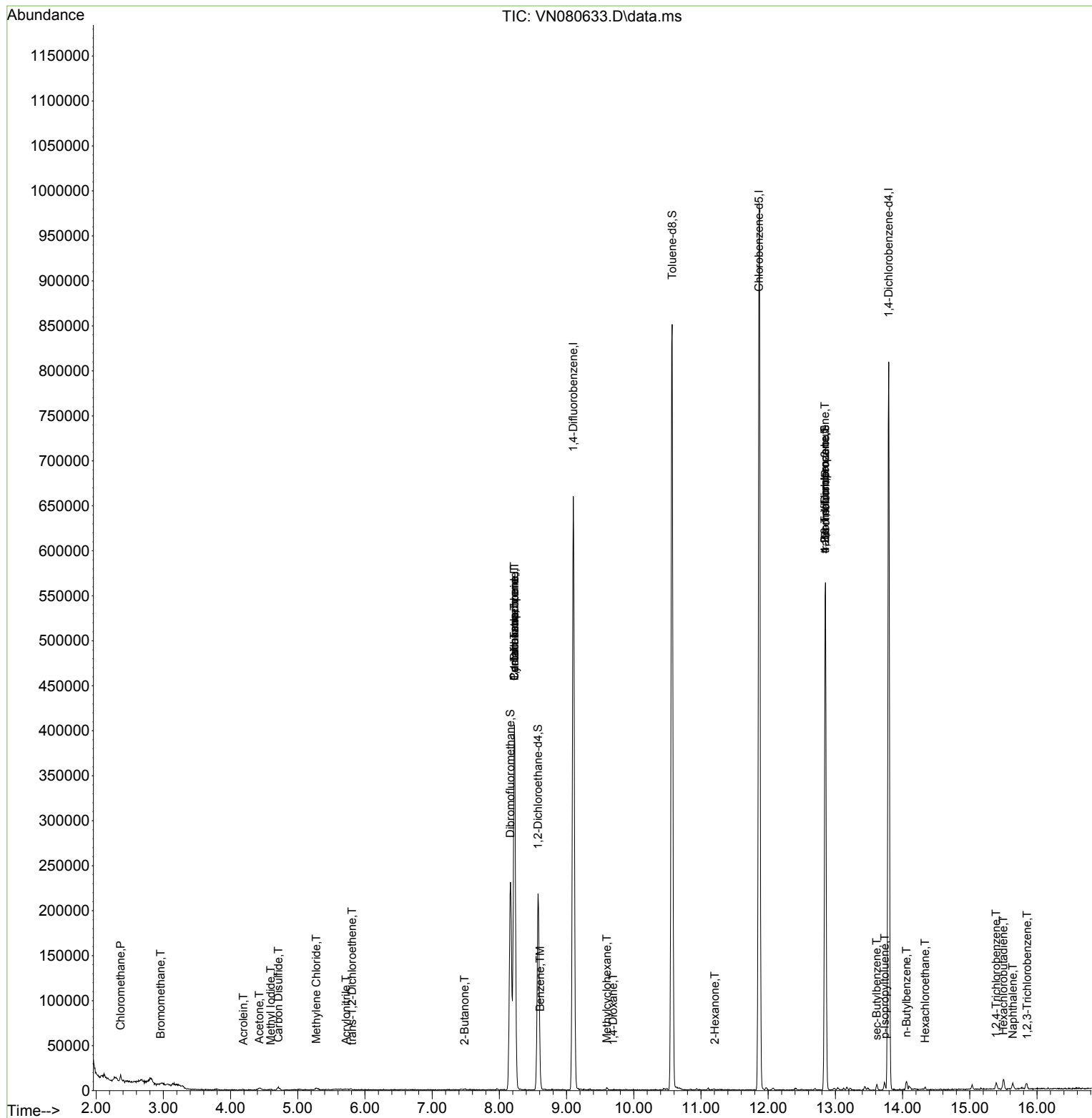
Internal Standards						
1) Pentafluorobenzene	8.224	168	301739	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	577993	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	600219	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	219383	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	177742	45.923	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	91.840%		
35) Dibromofluoromethane	8.165	113	173759	46.482	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.960%		
50) Toluene-d8	10.571	98	616038	47.199	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	94.400%		
62) 4-Bromofluorobenzene	12.847	95	202292	46.053	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	92.100%		
Target Compounds					Qvalue	
3) Chloromethane	2.365	50	6734	0.910	ug/l	96
5) Bromomethane	2.959	94	485	0.342	ug/l #	4
10) Methyl Iodide	4.600	142	950	0.473	ug/l #	79
13) Acrolein	4.189	56	470	0.798	ug/l #	80
15) Acrylonitrile	5.718	53	837	0.564	ug/l #	47
16) Acetone	4.430	43	4027	3.828	ug/l #	87
17) Carbon Disulfide	4.712	76	4895	0.653	ug/l #	59
20) Methylene Chloride	5.277	84	1286	0.383	ug/l #	68
21) trans-1,2-Dichloroethene	5.806	96	806	0.239	ug/l #	4
25) 2-Butanone	7.483	43	505	0.257	ug/l #	37
31) Cyclohexane	8.224	56	5939	1.134	ug/l #	8
36) 1,1-Dichloropropene	8.224	75	22444	3.901	ug/l #	49
38) Carbon Tetrachloride	8.224	117	32080	5.451	ug/l #	16
39) Methylcyclohexane	9.600	83	1158	0.245	ug/l #	68
40) Benzene	8.606	78	414	0.396	ug/l #	49
49) 1,4-Dioxane	9.694	88	64	1.025	ug/l #	30
59) 2-Hexanone	11.206	43	755	0.250	ug/l #	50
71) Bromoform	12.853	173	1355	0.399	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	102596	21.743	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	102596	58.897	ug/l #	15
85) sec-Butylbenzene	13.618	105	4728	0.337	ug/l	99
86) p-Isopropyltoluene	13.735	119	3464	0.727	ug/l	94
89) n-Butylbenzene	14.059	91	5934	0.566	ug/l	97
90) Hexachloroethane	14.335	117	688	0.314	ug/l	72
93) 1,2,4-Trichlorobenzene	15.394	180	3233	0.883	ug/l	94
94) Hexachlorobutadiene	15.500	225	2613	1.383	ug/l	95
95) Naphthalene	15.641	128	6891	0.605	ug/l	96
96) 1,2,3-Trichlorobenzene	15.853	180	2678	0.724	ug/l	90

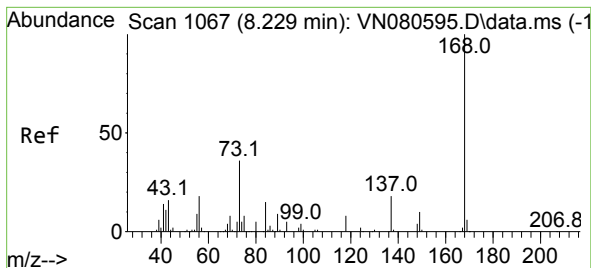
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_N
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Quant Time: Jan 04 01:56:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122723W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 28 03:07:01 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 10

Delta R.T. -0.005 min

Lab File: VN080633.D

Acq: 03 Jan 2024 12:22

Instrument :

MSVOA_N

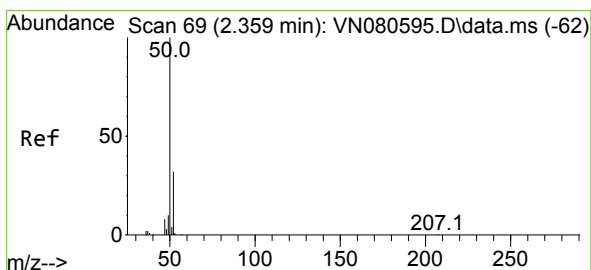
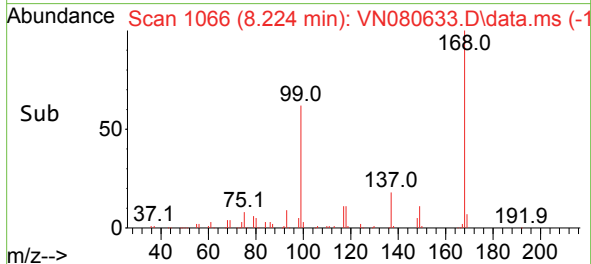
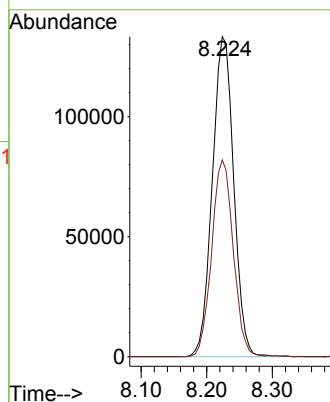
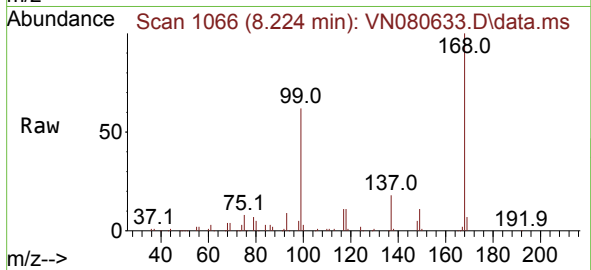
ClientSampleId :

Tgt Ion:168 Resp: 301739

Ion Ratio Lower Upper

168 100

99 61.5 53.0 79.6



#3

Chloromethane

Concen: 0.910 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN080633.D

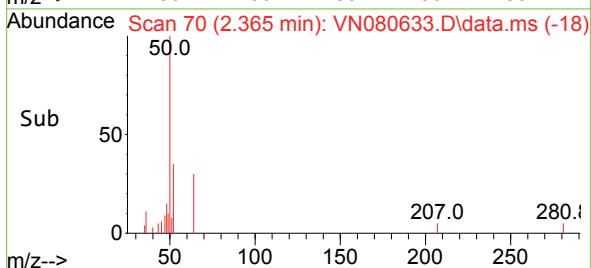
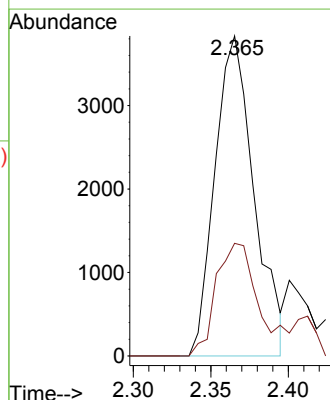
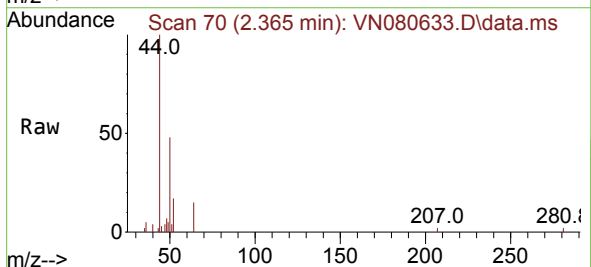
Acq: 03 Jan 2024 12:22

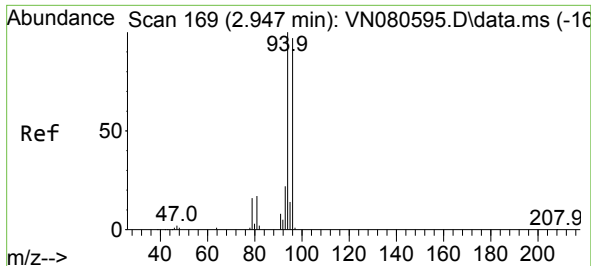
Tgt Ion: 50 Resp: 6734

Ion Ratio Lower Upper

50 100

52 35.2 26.5 39.7

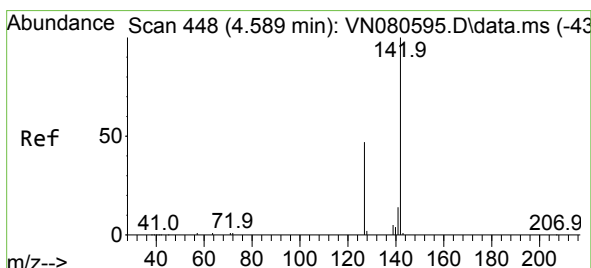
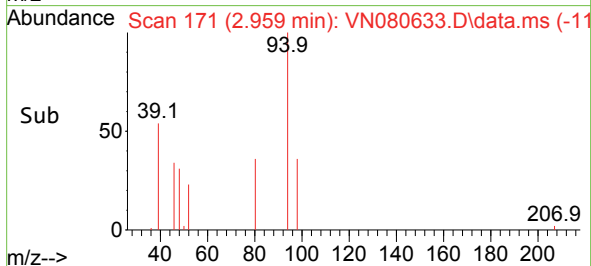
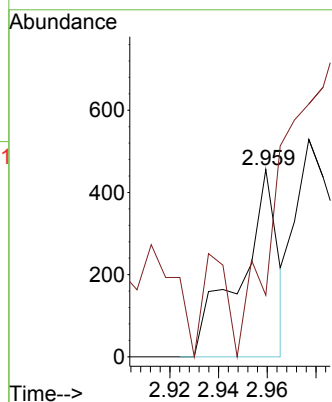
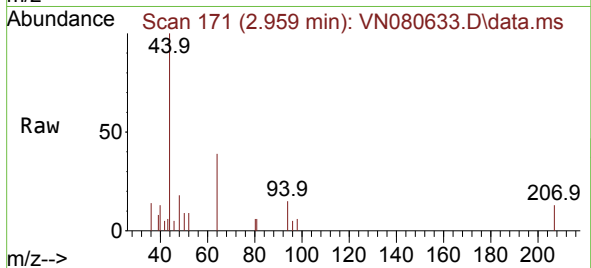




#5
Bromomethane
Concen: 0.342 ug/l
RT: 2.959 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22

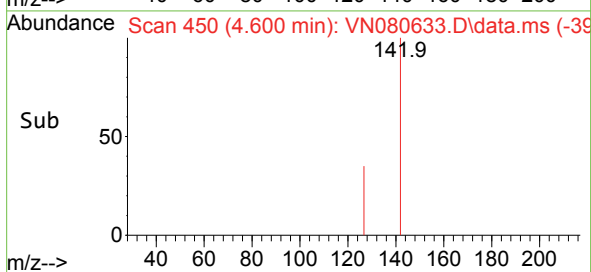
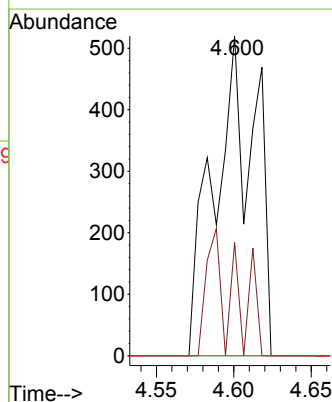
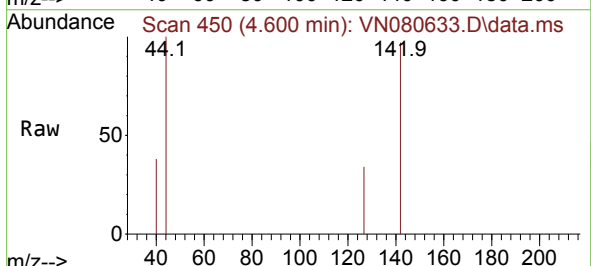
Instrument :
MSVOA_N
ClientSampleId :

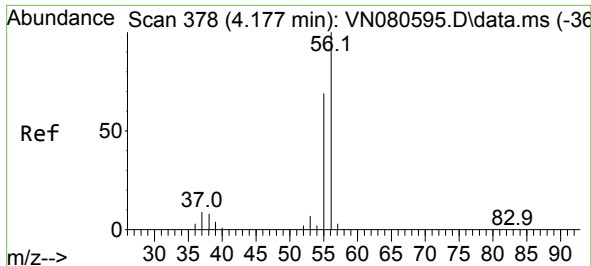
Tgt Ion: 94 Resp: 485
Ion Ratio Lower Upper
94 100
96 0.0 73.1 109.7#



#10
Methyl Iodide
Concen: 0.473 ug/l
RT: 4.600 min Scan# 450
Delta R.T. 0.011 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22

Tgt Ion:142 Resp: 950
Ion Ratio Lower Upper
142 100
127 35.4 37.6 56.4#
141 0.0 11.4 17.0#

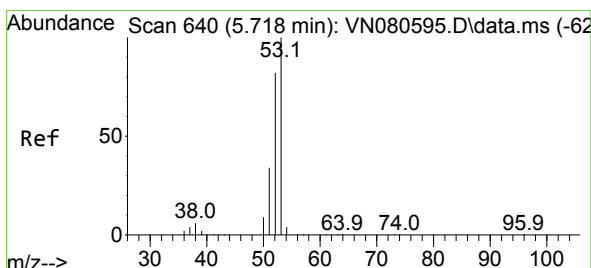
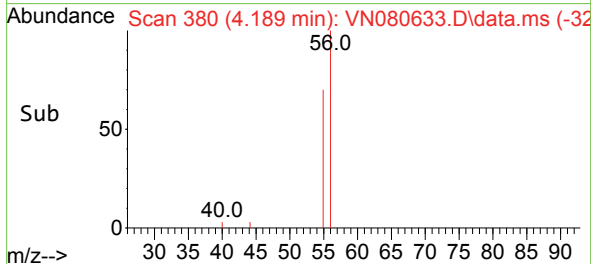
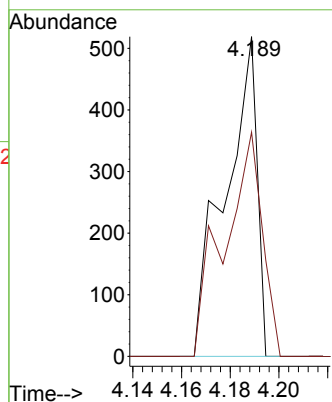
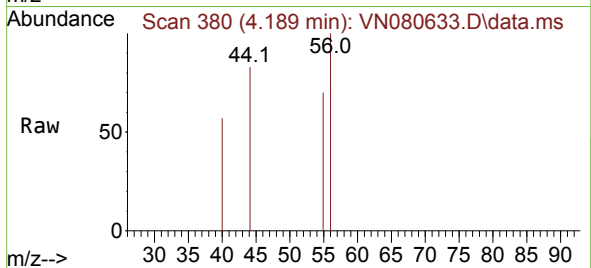




#13
Acrolein
Concen: 0.798 ug/l
RT: 4.189 min Scan# 31
Delta R.T. 0.012 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22

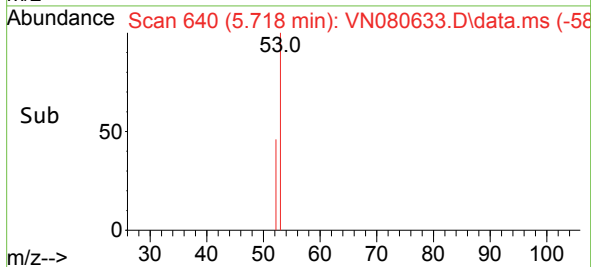
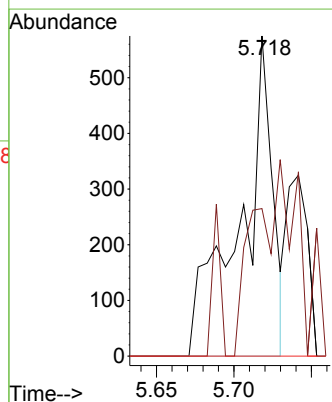
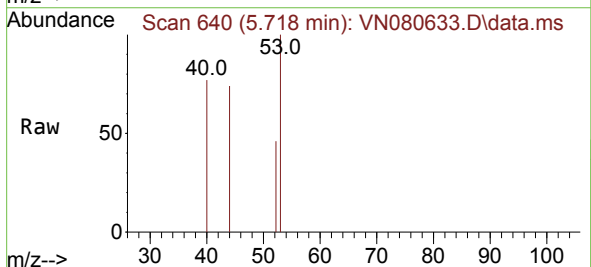
Instrument :
MSVOA_N
ClientSampleId :

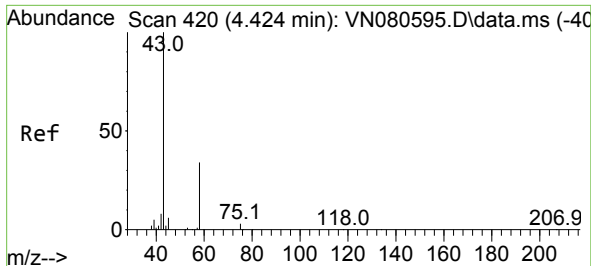
Tgt Ion: 56 Resp: 470
Ion Ratio Lower Upper
56 100
55 84.3 54.5 81.7#



#15
Acrylonitrile
Concen: 0.564 ug/l
RT: 5.718 min Scan# 640
Delta R.T. 0.000 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22

Tgt Ion: 53 Resp: 837
Ion Ratio Lower Upper
53 100
52 38.2 65.3 97.9#
51 0.0 28.9 43.3#

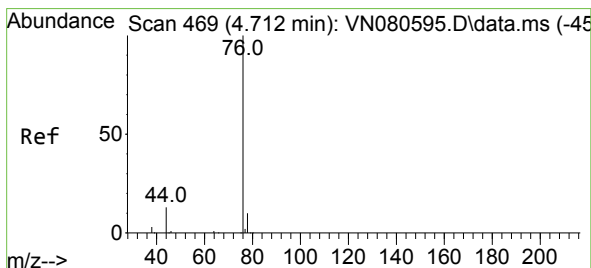
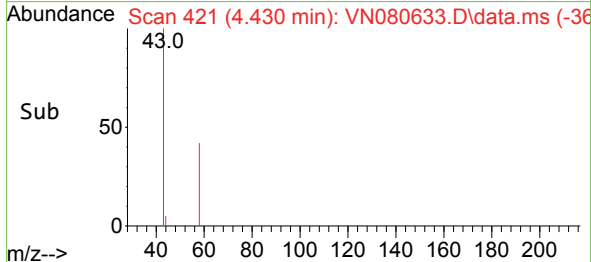
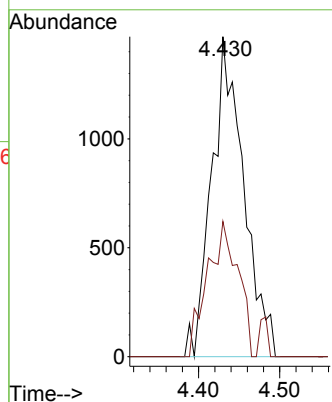
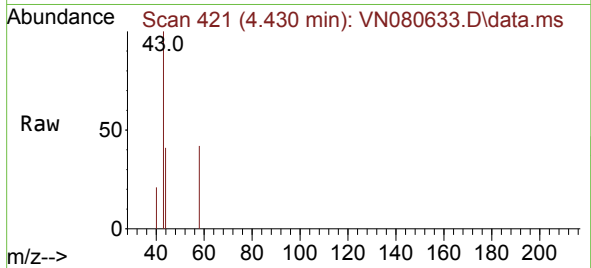




#16
Acetone
Concen: 3.828 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22

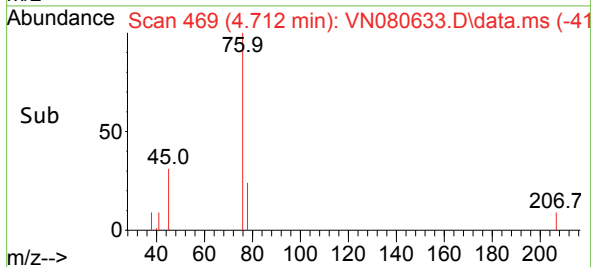
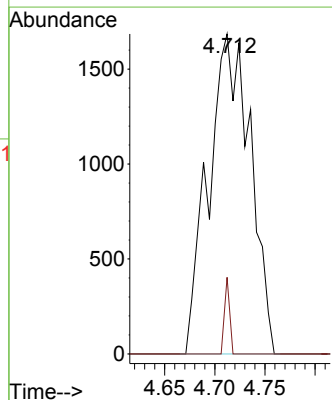
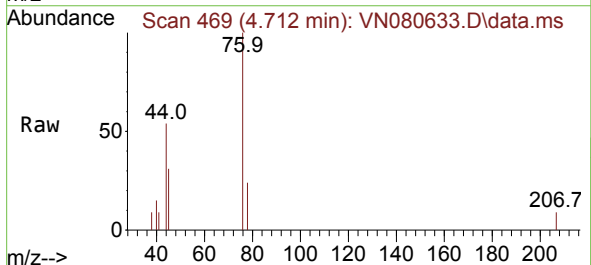
Instrument :
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ClientSampleId :

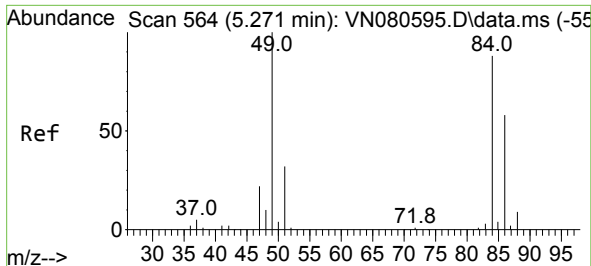
Tgt Ion: 43 Resp: 4027
Ion Ratio Lower Upper
43 100
58 42.3 28.0 42.0#



#17
Carbon Disulfide
Concen: 0.653 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22

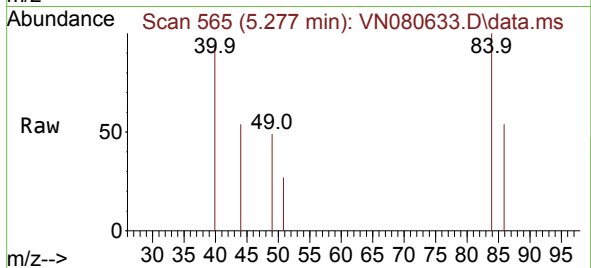
Tgt Ion: 76 Resp: 4895
Ion Ratio Lower Upper
76 100
78 23.9 7.4 11.0#



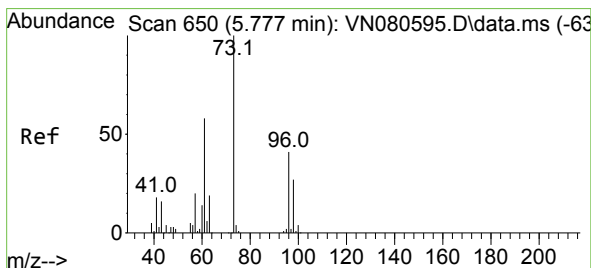
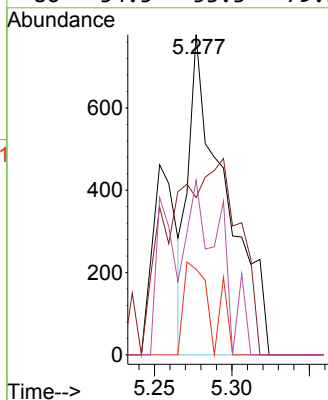
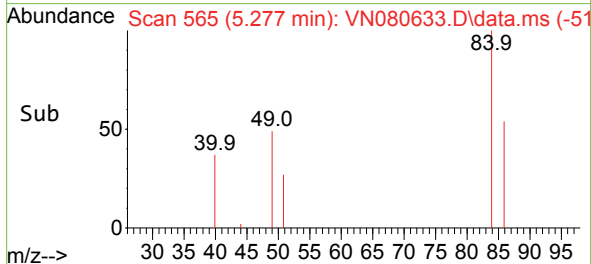


#20
Methylene Chloride
Concen: 0.383 ug/l
RT: 5.277 min Scan# 511
Delta R.T. 0.006 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22

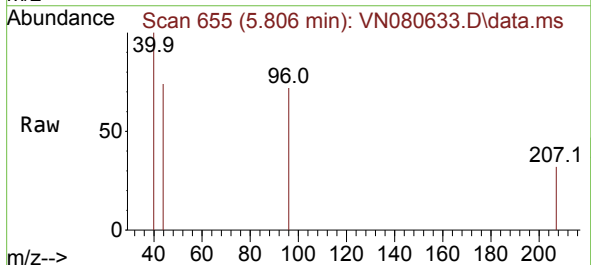
Instrument :
MSVOA_N
ClientSampleId :



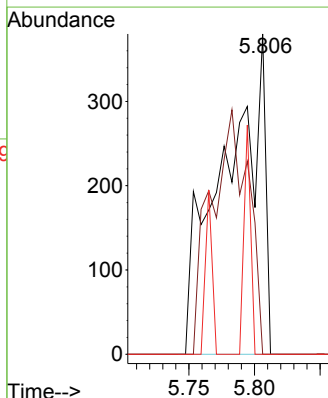
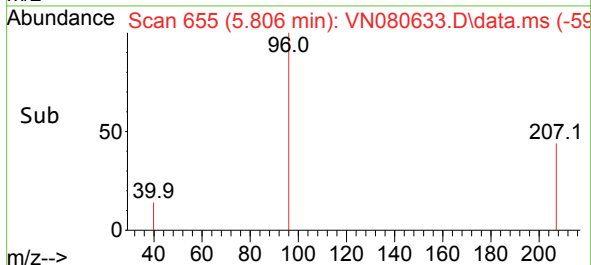
Tgt Ion: 84 Resp: 1286
Ion Ratio Lower Upper
84 100
49 49.1 79.7 119.5#
51 26.7 25.2 37.8
86 54.5 53.3 79.9

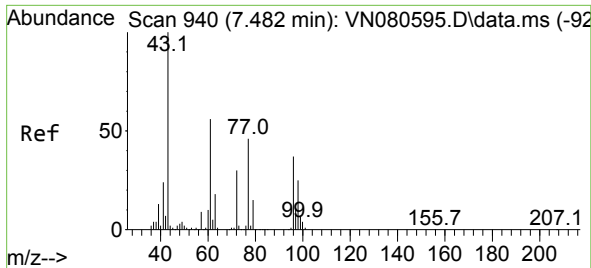


#21
trans-1,2-Dichloroethene
Concen: 0.239 ug/l
RT: 5.806 min Scan# 655
Delta R.T. 0.030 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22



Tgt Ion: 96 Resp: 806
Ion Ratio Lower Upper
96 100
61 0.0 90.1 135.1#
98 0.0 46.4 69.6#

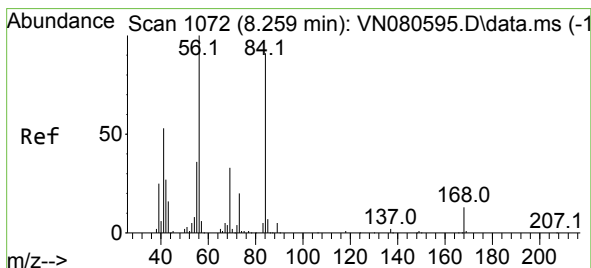
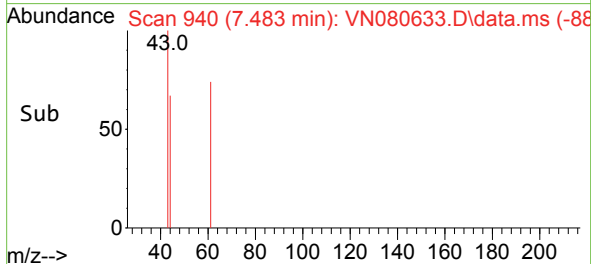
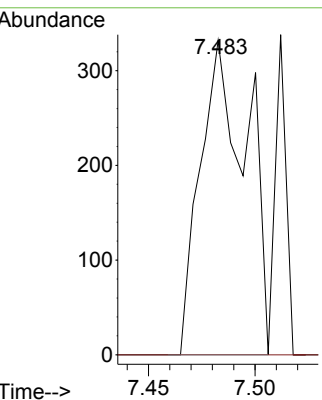
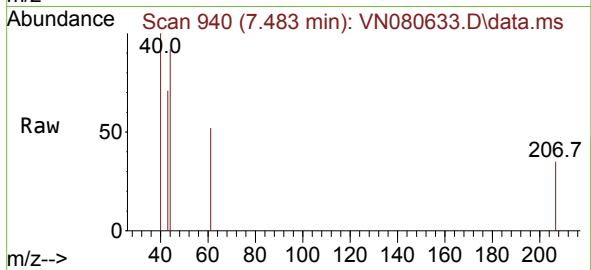




#25
2-Butanone
Concen: 0.257 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22

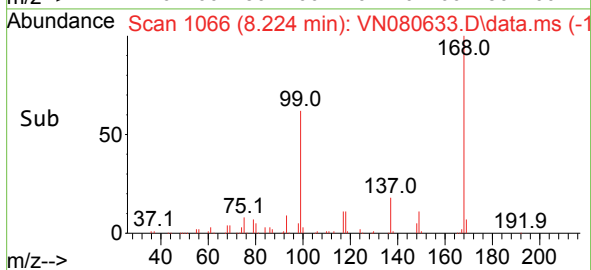
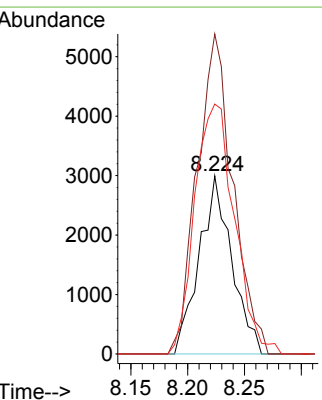
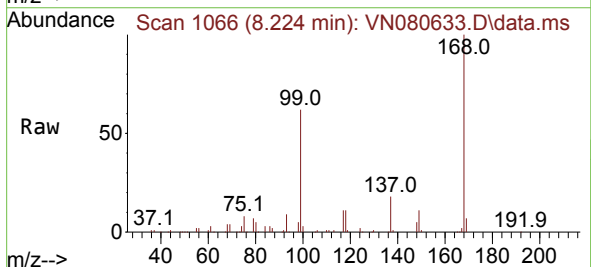
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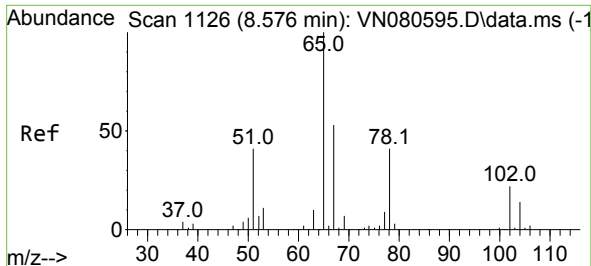
Tgt Ion: 43 Resp: 505
Ion Ratio Lower Upper
43 100
72 0.0 30.2 45.2#



#31
Cyclohexane
Concen: 1.134 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22

Tgt Ion: 56 Resp: 5939
Ion Ratio Lower Upper
56 100
69 179.7 26.8 40.2#
84 140.3 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 45.923 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN080633.D

Acq: 03 Jan 2024 12:22

Instrument :

MSVOA_N

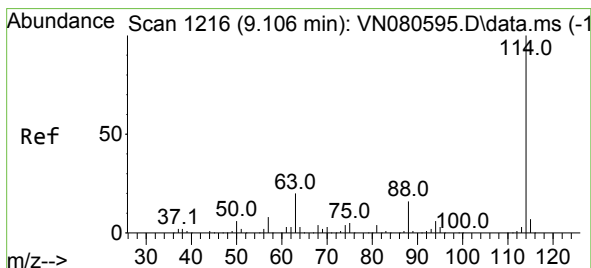
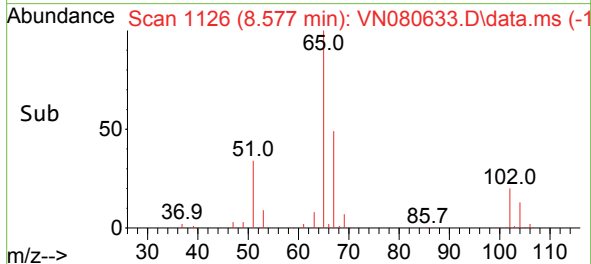
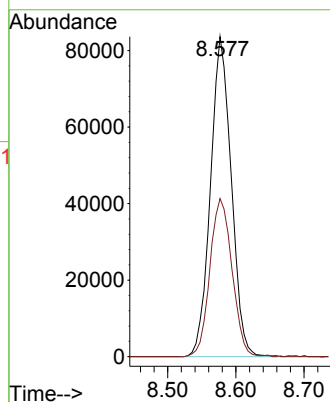
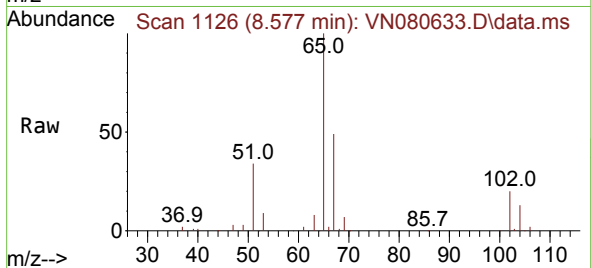
ClientSampleId :

Tgt Ion: 65 Resp: 177742

Ion Ratio Lower Upper

65 100

67 52.5 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.006 min

Lab File: VN080633.D

Acq: 03 Jan 2024 12:22

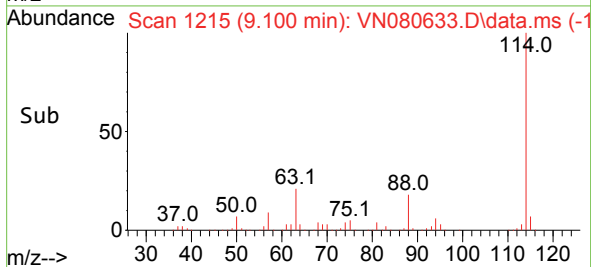
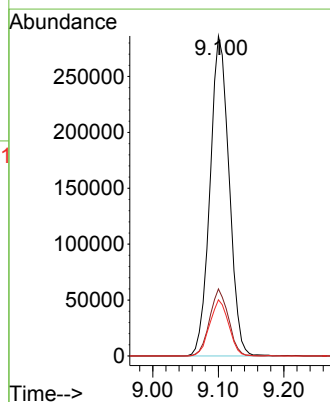
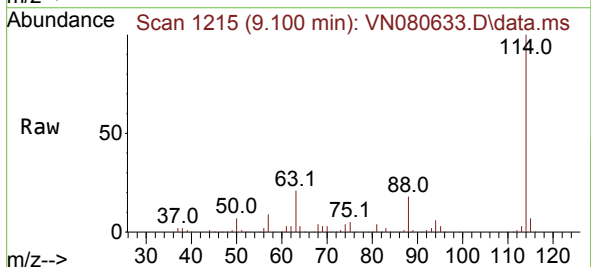
Tgt Ion: 114 Resp: 577993

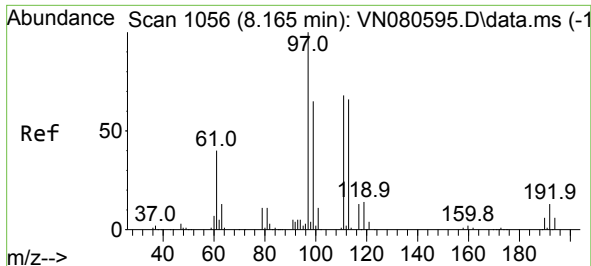
Ion Ratio Lower Upper

114 100

63 21.0 0.0 36.4

88 17.6 0.0 30.6

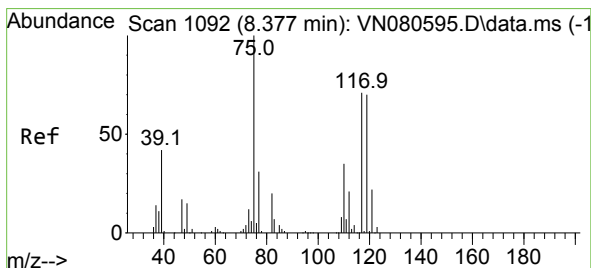
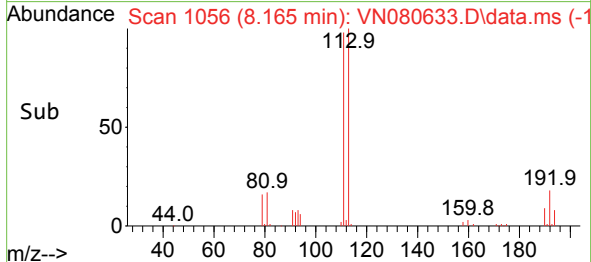
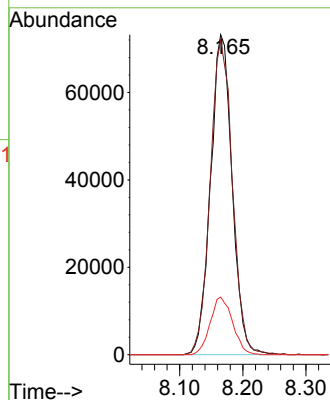
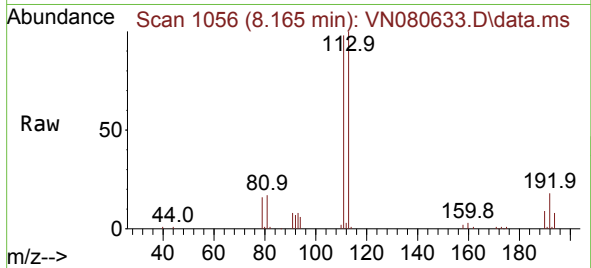




#35
Dibromofluoromethane
Concen: 46.482 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22

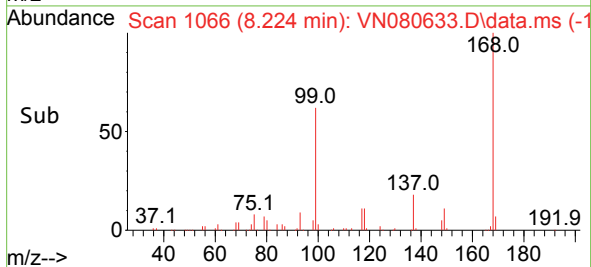
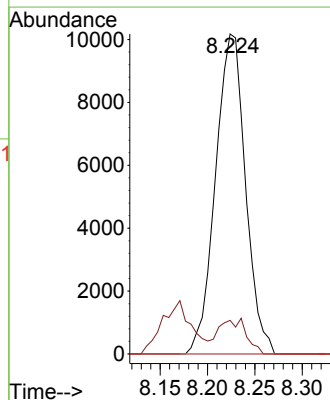
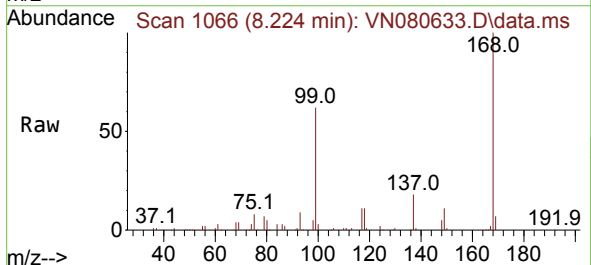
Instrument :
MSVOA_N
ClientSampleId :

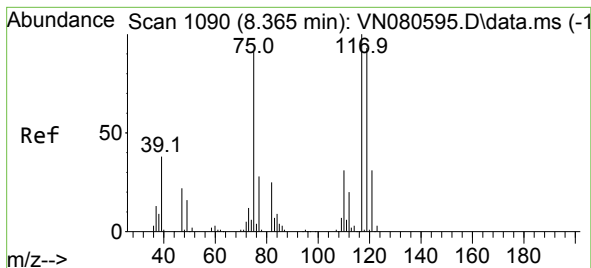
Tgt Ion:113 Resp: 173759
Ion Ratio Lower Upper
113 100
111 101.2 82.6 123.8
192 18.6 12.7 19.1



#36
1,1-Dichloropropene
Concen: 3.901 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.153 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22

Tgt Ion: 75 Resp: 22444
Ion Ratio Lower Upper
75 100
110 10.1 19.1 57.3#
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.451 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.141 min

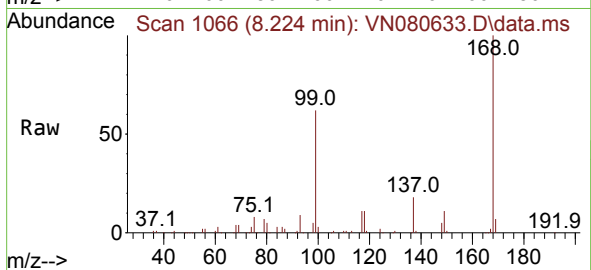
Lab File: VN080633.D

Acq: 03 Jan 2024 12:22

Instrument :

MSVOA_N

ClientSampleId :



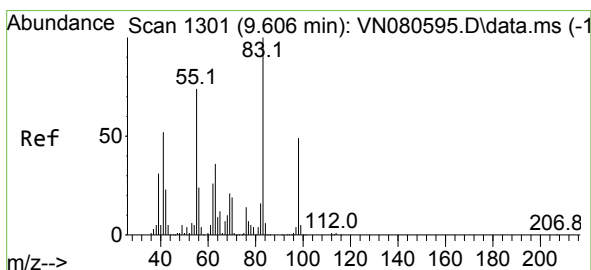
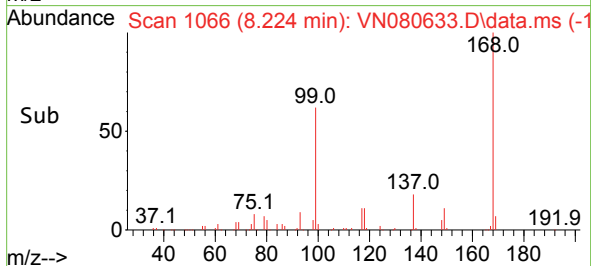
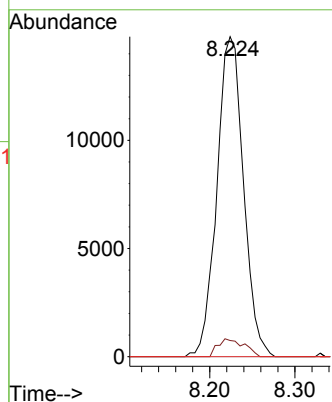
Tgt Ion:117 Resp: 32080

Ion Ratio Lower Upper

117 100

119 5.1 77.3 115.9#

121 0.0 23.3 34.9#



#39

Methylcyclohexane

Concen: 0.245 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.006 min

Lab File: VN080633.D

Acq: 03 Jan 2024 12:22

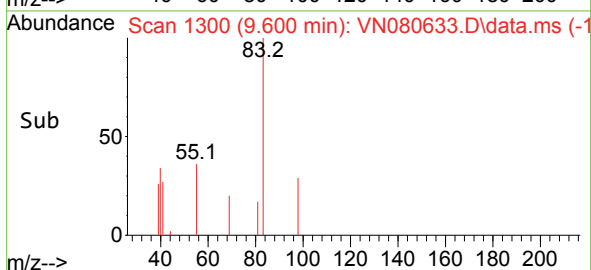
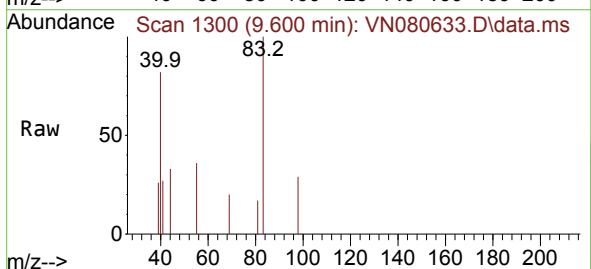
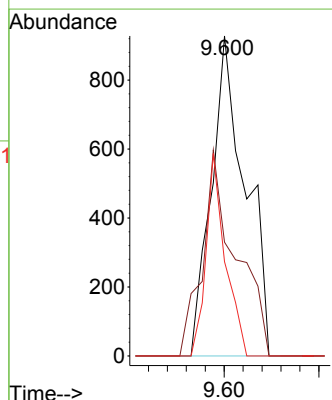
Tgt Ion: 83 Resp: 1158

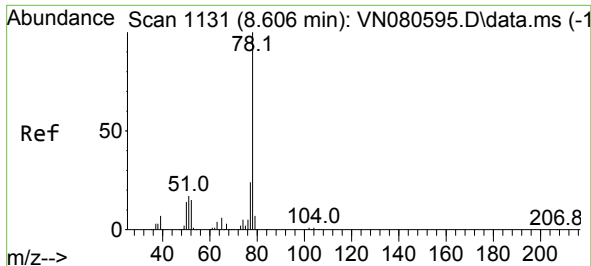
Ion Ratio Lower Upper

83 100

55 35.6 49.1 73.7#

98 29.4 40.6 61.0#

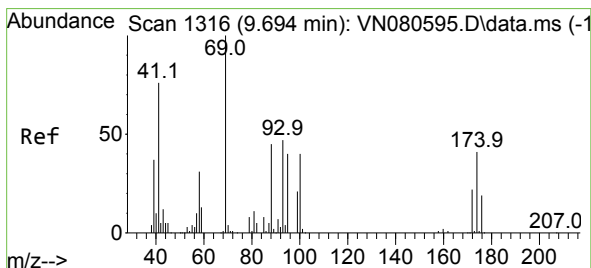
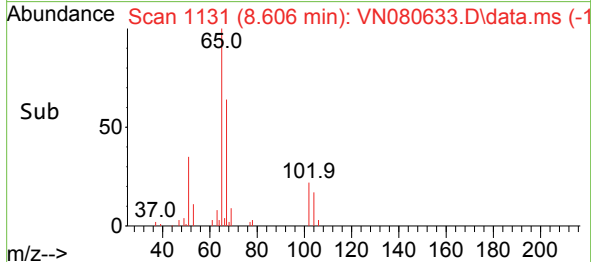
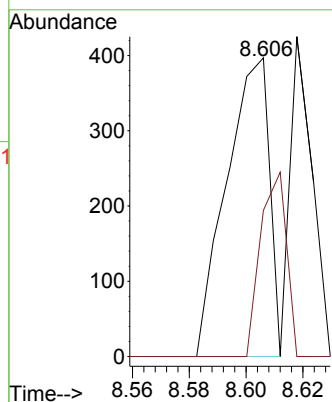
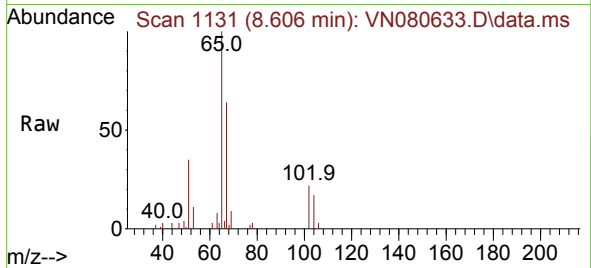




#40
Benzene
Concen: 0.396 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22

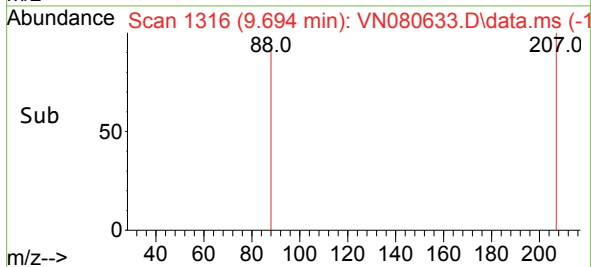
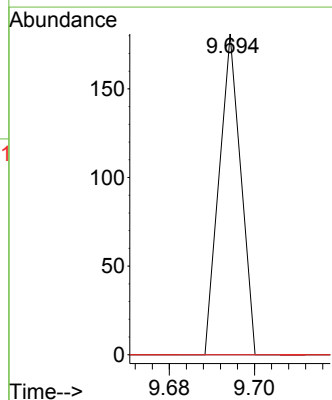
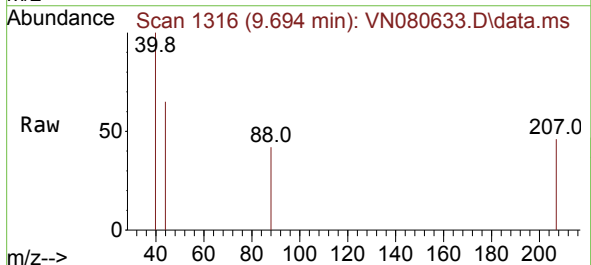
Instrument :
MSVOA_N
ClientSampleId :

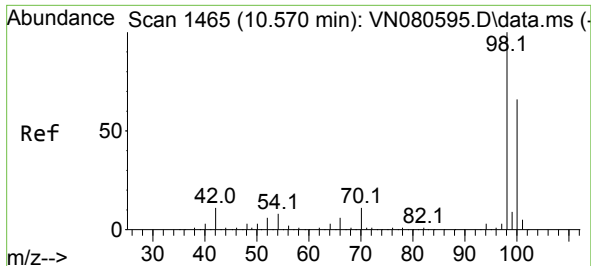
Tgt Ion: 78 Resp: 414
Ion Ratio Lower Upper
78 100
77 48.9 19.0 28.6#



#49
1,4-Dioxane
Concen: 1.025 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. 0.000 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22

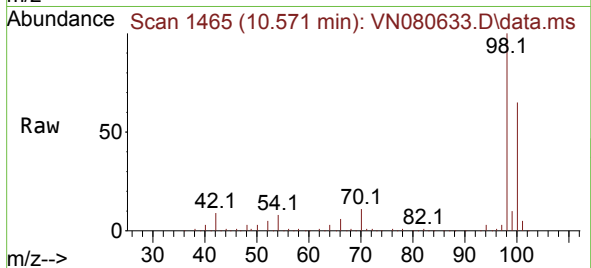
Tgt Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#



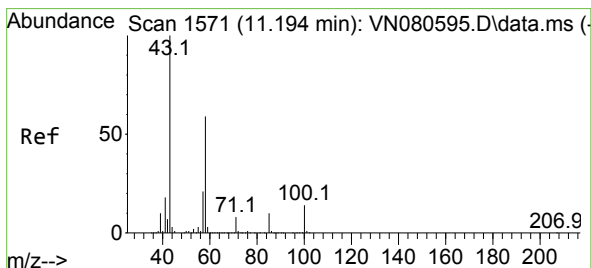
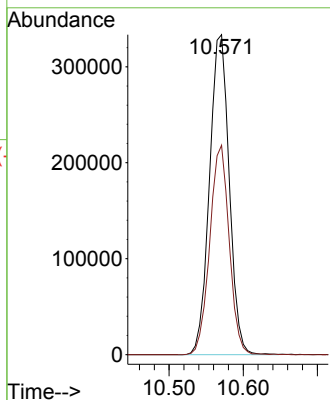
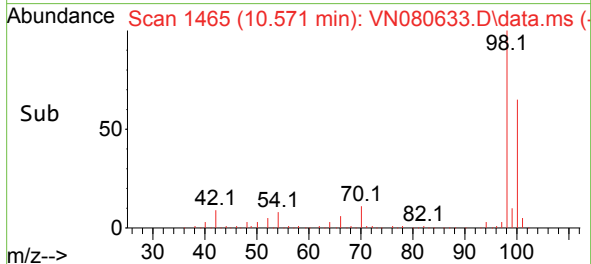


#50
Toluene-d8
Concen: 47.199 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22

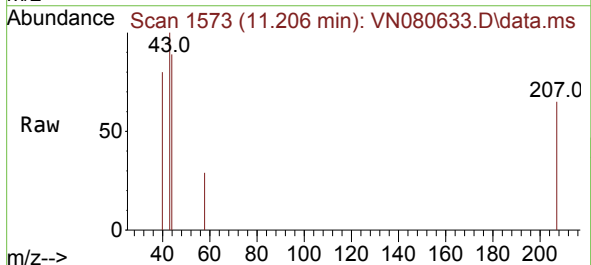
Instrument :
MSVOA_N
ClientSampleId :



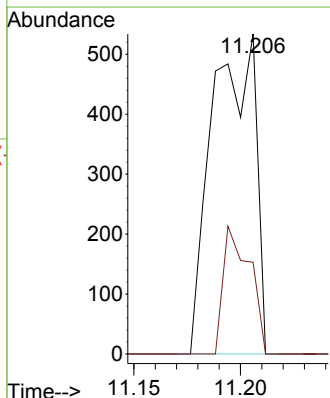
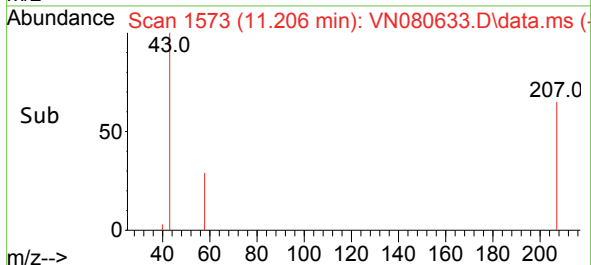
Tgt Ion: 98 Resp: 616038
Ion Ratio Lower Upper
98 100
100 64.5 52.0 78.0

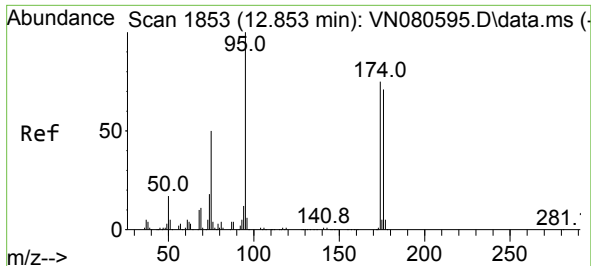


#59
2-Hexanone
Concen: 0.250 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.012 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22



Tgt Ion: 43 Resp: 755
Ion Ratio Lower Upper
43 100
58 24.4 31.7 95.1#

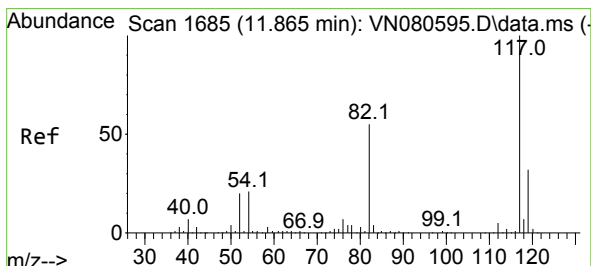
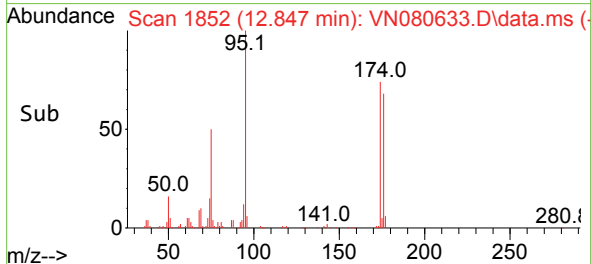
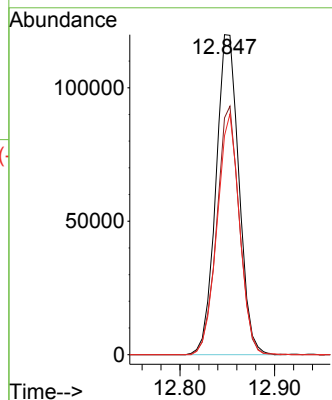
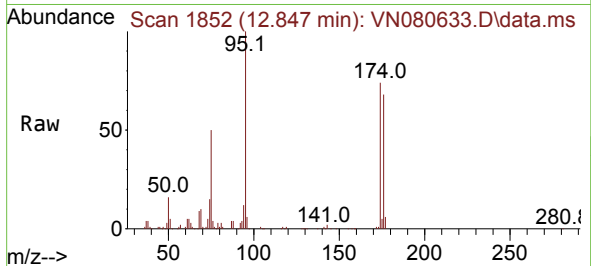




#62
4-Bromofluorobenzene
Concen: 46.053 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.006 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22

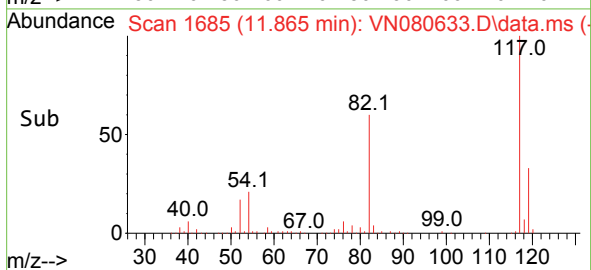
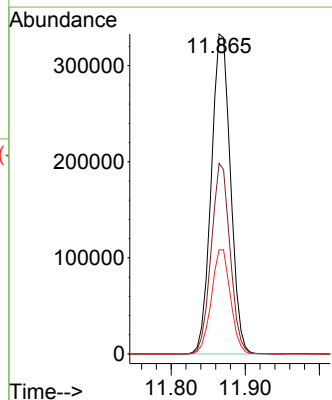
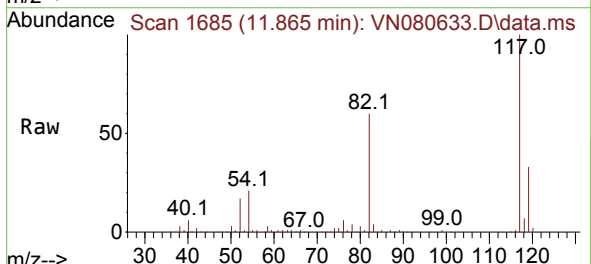
Instrument :
MSVOA_N
ClientSampleId :

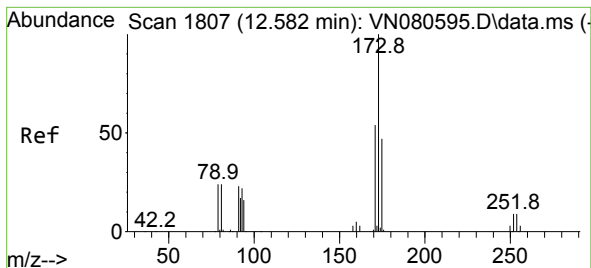
Tgt Ion: 95 Resp: 202292
Ion Ratio Lower Upper
95 100
174 76.0 0.0 143.8
176 73.5 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22

Tgt Ion: 117 Resp: 600219
Ion Ratio Lower Upper
117 100
82 59.5 44.0 66.0
119 32.6 25.6 38.4





#71

Bromoform

Concen: 0.399 ug/l

RT: 12.853 min Scan# 1807

Delta R.T. 0.271 min

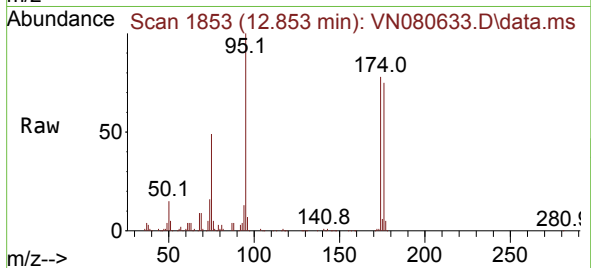
Lab File: VN080633.D

Acq: 03 Jan 2024 12:22

Instrument :

MSVOA_N

ClientSampleId :



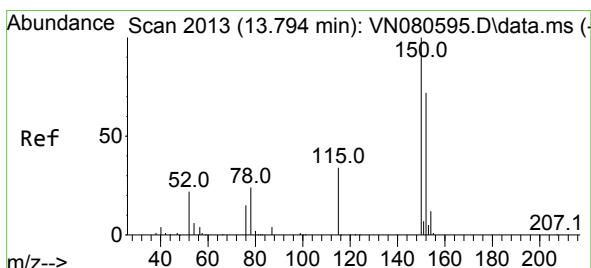
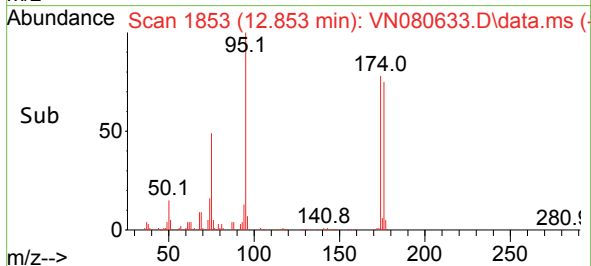
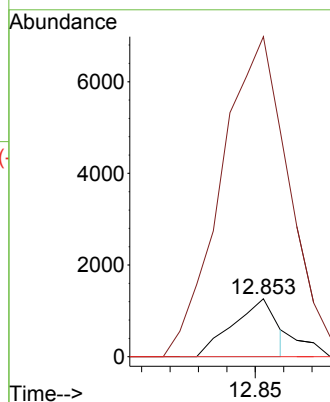
Tgt Ion:173 Resp: 1355

Ion Ratio Lower Upper

173 100

175 735.4 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN080633.D

Acq: 03 Jan 2024 12:22

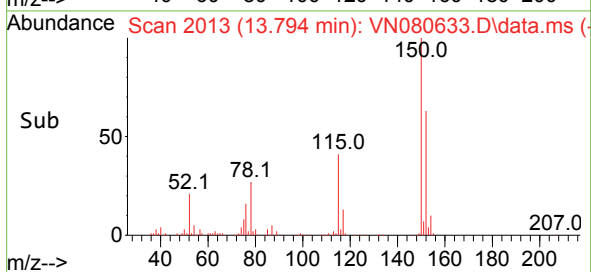
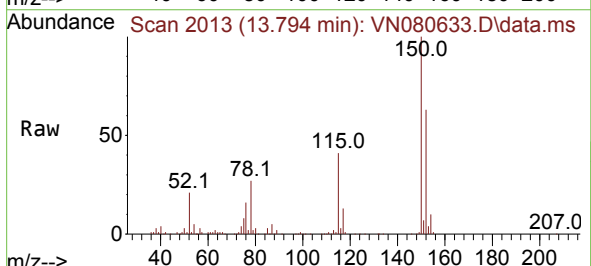
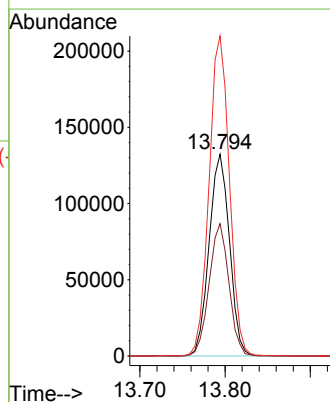
Tgt Ion:152 Resp: 219383

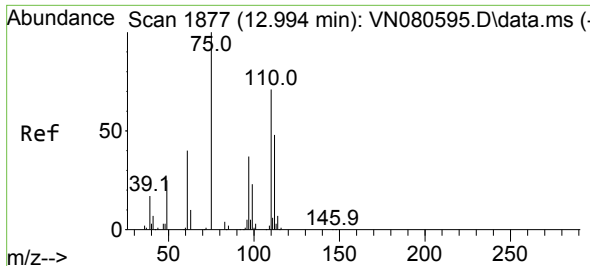
Ion Ratio Lower Upper

152 100

115 63.9 32.3 96.8

150 158.1 0.0 355.8

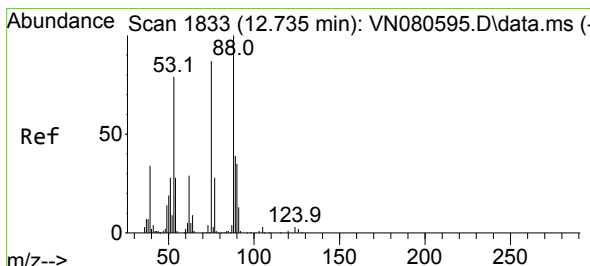
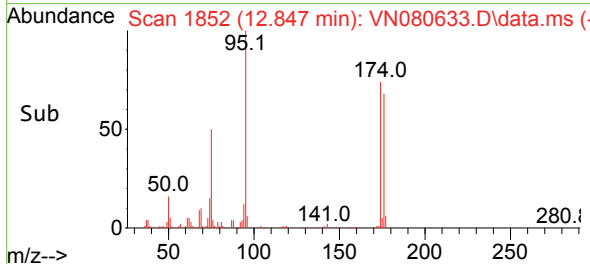
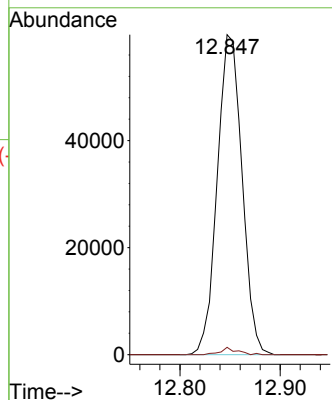
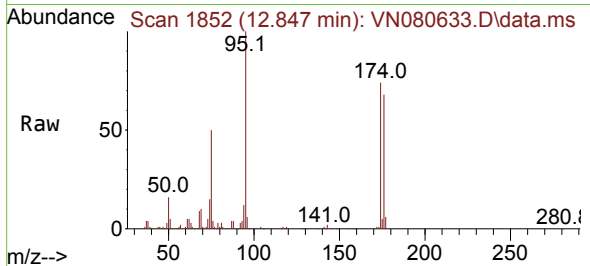




#76
1,2,3-Trichloropropane
Concen: 21.743 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22

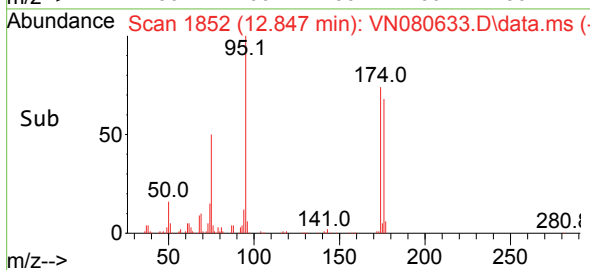
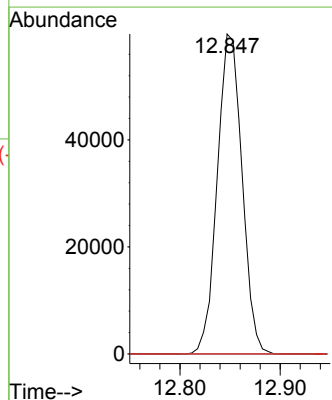
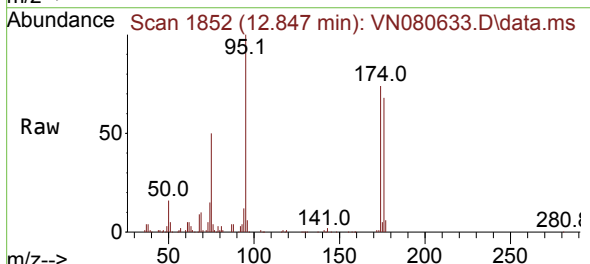
Instrument :
MSVOA_N
ClientSampleId :

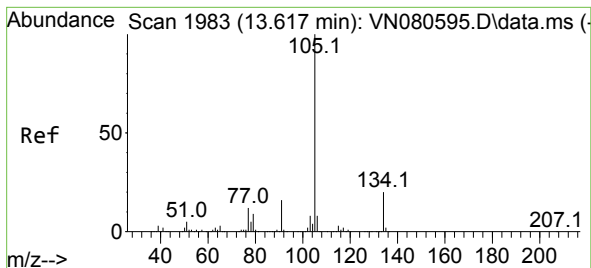
Tgt Ion: 75 Resp: 102596
Ion Ratio Lower Upper
75 100
77 1.5 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 58.897 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22

Tgt Ion: 75 Resp: 102596
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#





#85

sec-Butylbenzene

Concen: 0.337 ug/l

RT: 13.618 min Scan# 1983

Delta R.T. 0.000 min

Lab File: VN080633.D

Acq: 03 Jan 2024 12:22

Instrument :

MSVOA_N

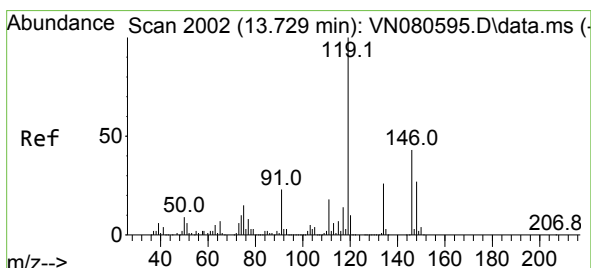
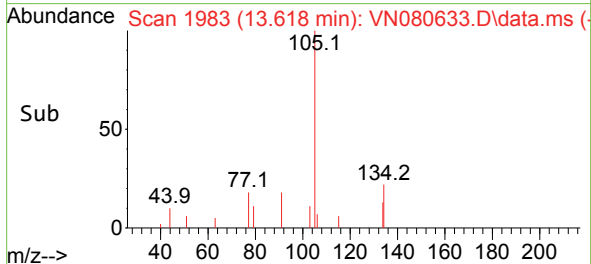
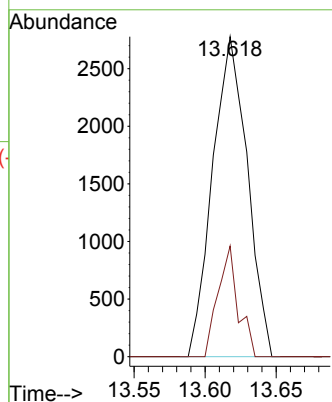
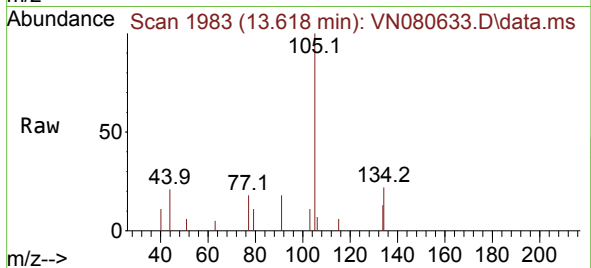
ClientSampleId :

Tgt Ion:105 Resp: 4728

Ion Ratio Lower Upper

105 100

134 20.0 9.8 29.3



#86

p-Isopropyltoluene

Concen: 0.727 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.006 min

Lab File: VN080633.D

Acq: 03 Jan 2024 12:22

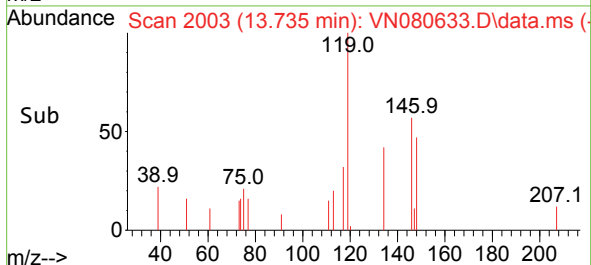
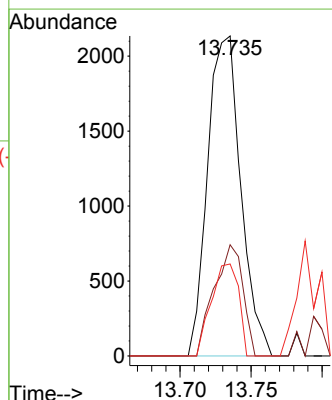
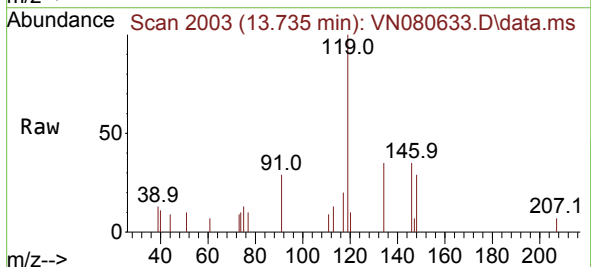
Tgt Ion:119 Resp: 3464

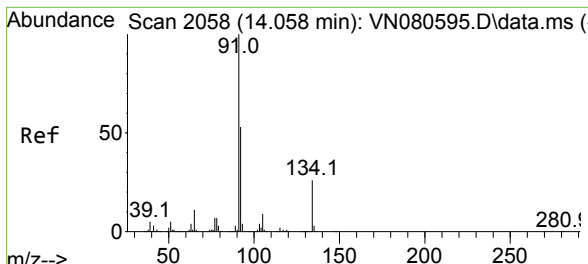
Ion Ratio Lower Upper

119 100

134 30.2 12.6 37.8

91 23.7 12.4 37.2

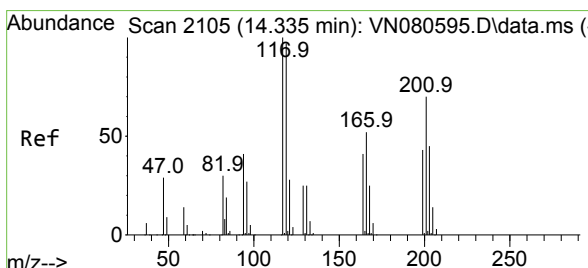
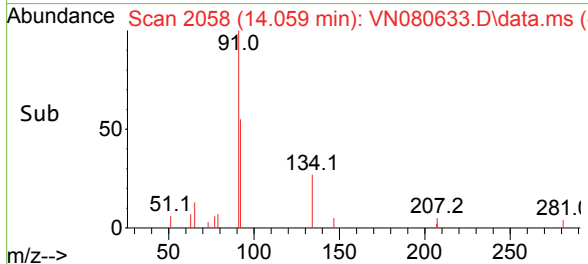
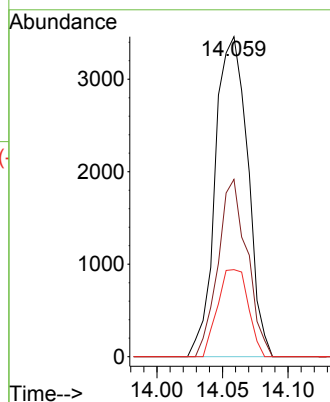
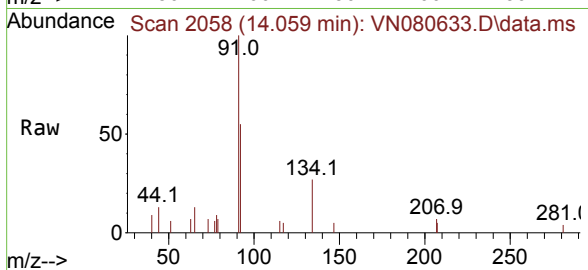




#89
n-Butylbenzene
Concen: 0.566 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22

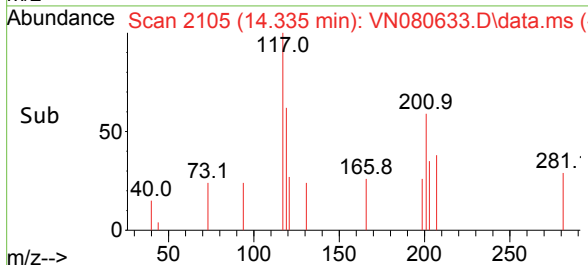
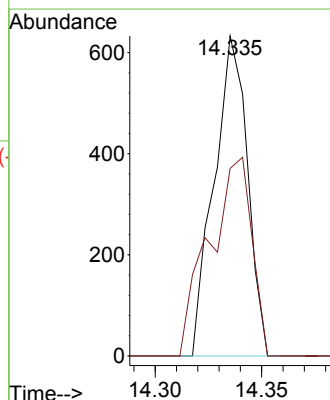
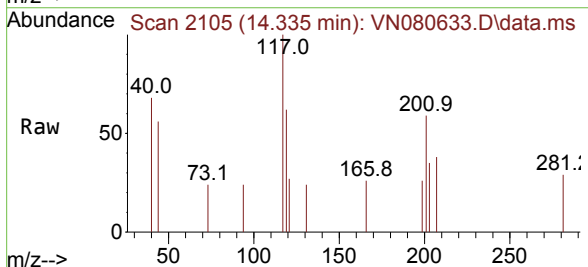
Instrument :
MSVOA_N
ClientSampleId :

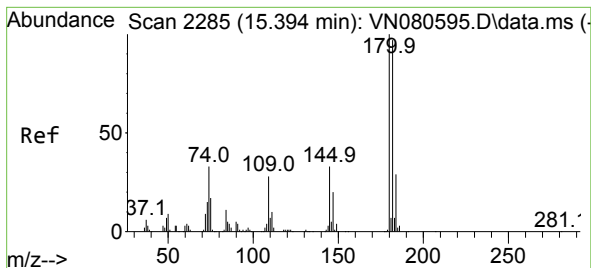
Tgt Ion: 91	Resp:	5934
Ion Ratio	Lower	Upper
91	100	
92	49.8	26.4 79.0
134	25.7	12.6 37.6



#90
Hexachloroethane
Concen: 0.314 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN080633.D
Acq: 03 Jan 2024 12:22

Tgt Ion: 117	Resp:	688
Ion Ratio	Lower	Upper
117	100	
201	79.4	29.3 88.0





#93

1,2,4-Trichlorobenzene

Concen: 0.883 ug/l

RT: 15.394 min Scan# 21

Delta R.T. 0.000 min

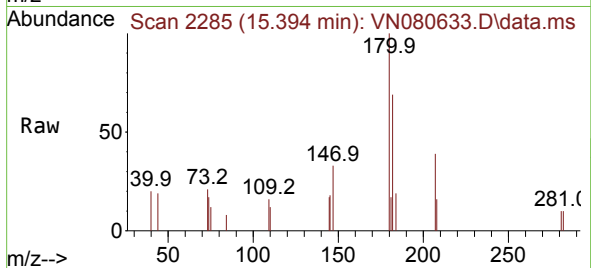
Lab File: VN080633.D

Acq: 03 Jan 2024 12:22

Instrument :

MSVOA_N

ClientSampleId :



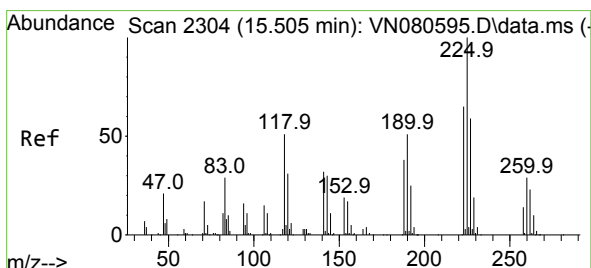
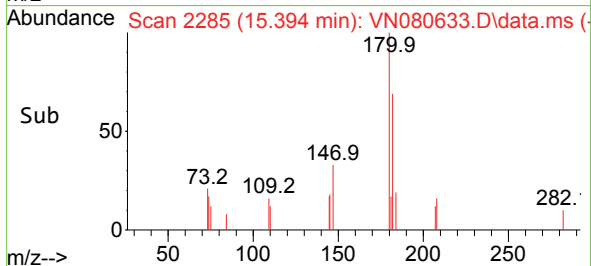
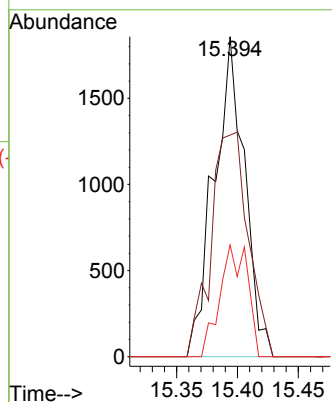
Tgt Ion:180 Resp: 3233

Ion Ratio Lower Upper

180 100

182 85.7 46.1 138.2

145 31.6 16.6 49.8



#94

Hexachlorobutadiene

Concen: 1.383 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.006 min

Lab File: VN080633.D

Acq: 03 Jan 2024 12:22

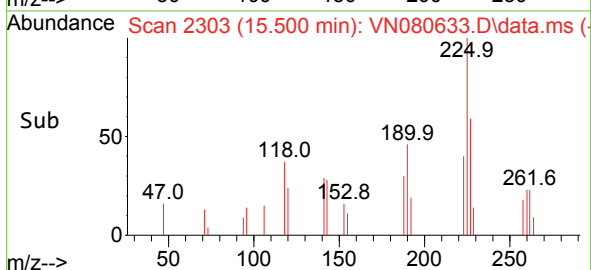
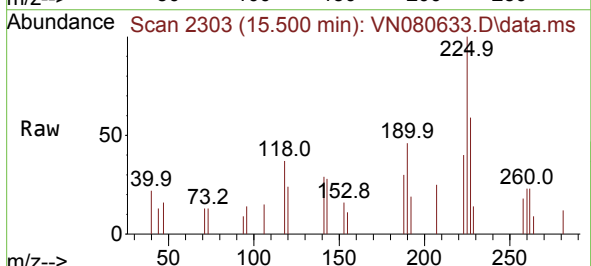
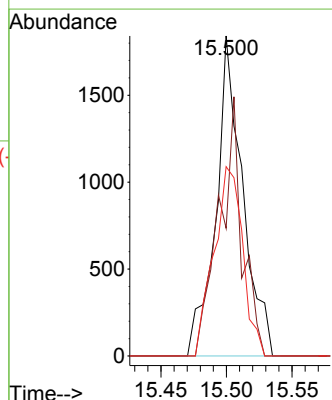
Tgt Ion:225 Resp: 2613

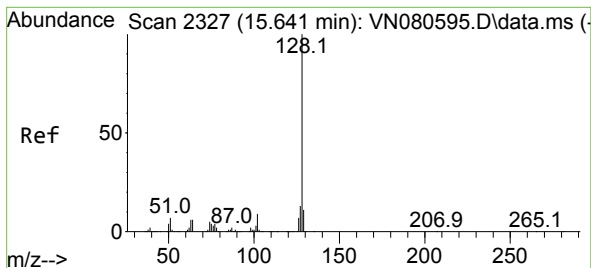
Ion Ratio Lower Upper

225 100

223 69.4 31.3 93.8

227 63.8 31.9 95.9





#95

Naphthalene

Concen: 0.605 ug/l

RT: 15.641 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN080633.D

Acq: 03 Jan 2024 12:22

Instrument :

MSVOA_N

ClientSampleId :

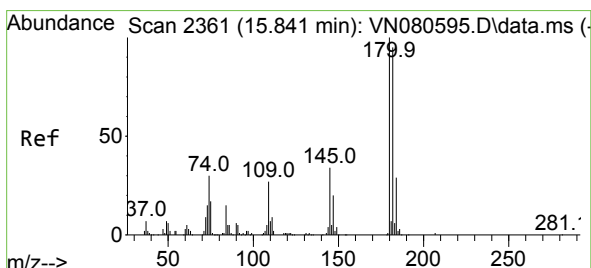
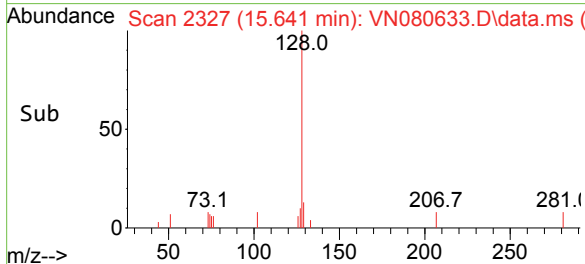
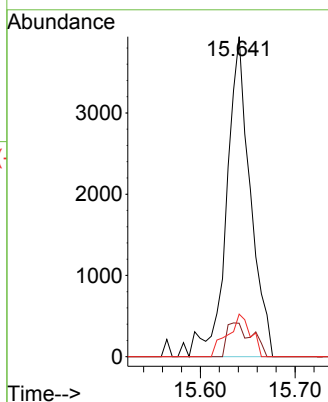
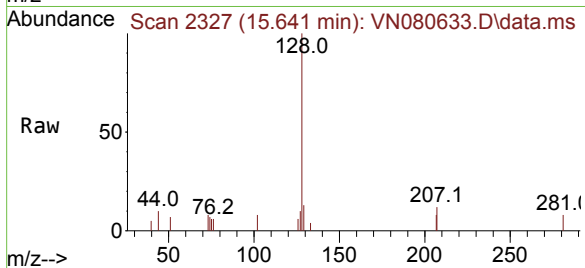
Tgt Ion:128 Resp: 6891

Ion Ratio Lower Upper

128 100

127 11.1 10.0 15.0

129 12.9 8.7 13.1



#96

1,2,3-Trichlorobenzene

Concen: 0.724 ug/l

RT: 15.853 min Scan# 2363

Delta R.T. 0.012 min

Lab File: VN080633.D

Acq: 03 Jan 2024 12:22

Tgt Ion:180 Resp: 2678

Ion Ratio Lower Upper

180 100

182 104.0 46.2 138.6

145 37.1 17.5 52.6

