

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010224\
 Data File : VN080625.D
 Acq On : 02 Jan 2024 15:19
 Operator : JC\MD
 Sample : 06038-03 200X
 Misc : 1.10g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 03 01:46:06 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)

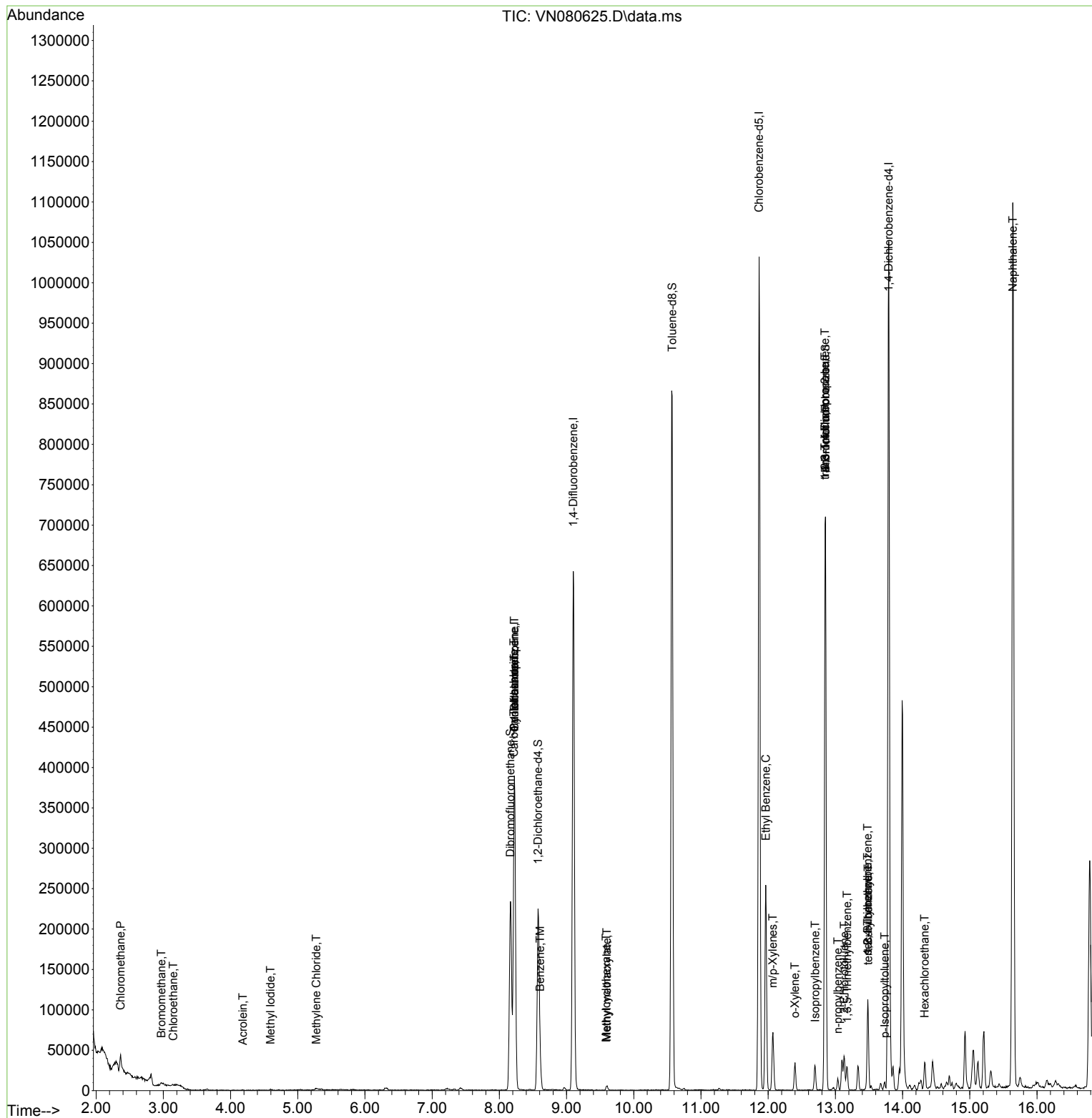
Internal Standards						
1) Pentafluorobenzene	8.224	168	287614	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	568509	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	597230	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	291184	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	183585	49.762	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.520%		
35) Dibromofluoromethane	8.165	113	167790	45.634	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.260%		
50) Toluene-d8	10.571	98	625628	48.733	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.460%		
62) 4-Bromofluorobenzene	12.853	95	267180	61.839	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	123.680%#		
Target Compounds						Qvalue
3) Chloromethane	2.365	50	31330	7.579	ug/l	91
5) Bromomethane	2.971	94	2917	2.159	ug/l #	53
6) Chloroethane	3.148	64	673	0.303	ug/l #	43
10) Methyl Iodide	4.595	142	1151	0.601	ug/l #	87
13) Acrolein	4.183	56	134	0.239	ug/l #	1
20) Methylene Chloride	5.277	84	969	0.303	ug/l #	53
31) Cyclohexane	8.224	56	7167	1.436	ug/l #	2
36) 1,1-Dichloropropene	8.224	75	22611	3.996	ug/l #	48
38) Carbon Tetrachloride	8.218	117	30135	5.206	ug/l #	15
39) Methylcyclohexane	9.588	83	2966	0.639	ug/l #	90
40) Benzene	8.606	78	25350	1.896	ug/l	99
48) Methyl methacrylate	9.600	41	1164	0.303	ug/l #	41
67) Ethyl Benzene	11.965	91	186243	8.967	ug/l	98
68) m/p-Xylenes	12.070	106	22380	2.904	ug/l	98
69) o-Xylene	12.400	106	8632	1.140	ug/l	78
71) Bromoform	12.853	173	1566	0.463	ug/l #	1
73) Isopropylbenzene	12.700	105	21240	1.066	ug/l	96
76) 1,2,3-Trichloropropane	12.847	75	130406	20.822	ug/l #	1
78) n-propylbenzene	13.035	91	11265	0.494	ug/l	96
79) 2-Chlorotoluene	13.135	91	3970	0.267	ug/l #	42
80) 1,3,5-Trimethylbenzene	13.176	105	14900	0.885	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.847	75	130406	56.402	ug/l #	15
83) tert-Butylbenzene	13.488	119	7830	0.557	ug/l #	51
84) 1,2,4-Trimethylbenzene	13.482	105	62592	3.673	ug/l	98
85) sec-Butylbenzene	13.482	105	62592	3.363	ug/l #	57
86) p-Isopropyltoluene	13.735	119	4872	0.744	ug/l	91
90) Hexachloroethane	14.329	117	3372	1.161	ug/l #	21
95) Naphthalene	15.641	128	1039340	68.742	ug/l	100

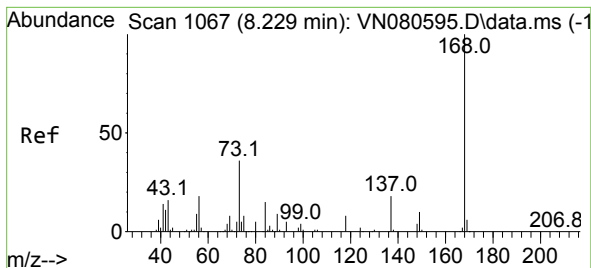
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1

Delta R.T. -0.005 min

Lab File: VN080625.D

Acq: 02 Jan 2024 15:19

Instrument :

MSVOA_N

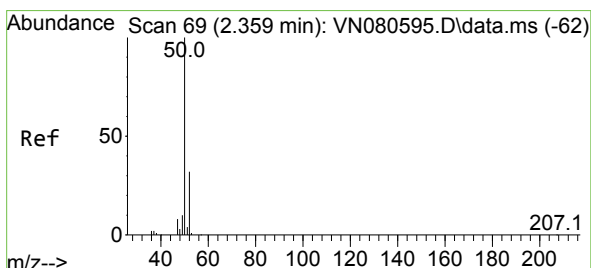
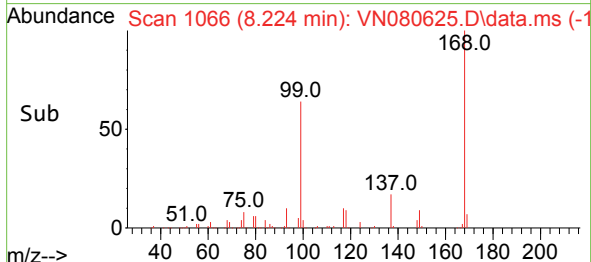
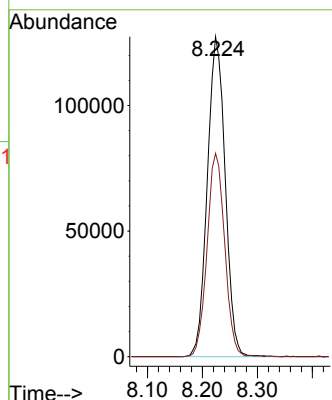
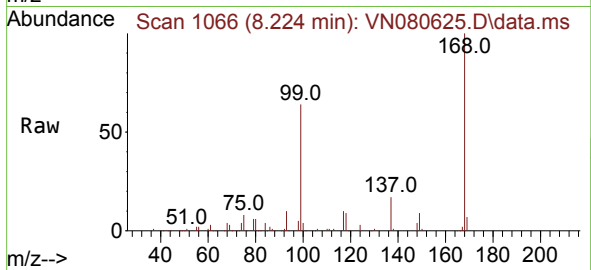
ClientSampleId :

Tgt Ion:168 Resp: 287614

Ion Ratio Lower Upper

168 100

99 63.5 53.0 79.6



#3

Chloromethane

Concen: 7.579 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN080625.D

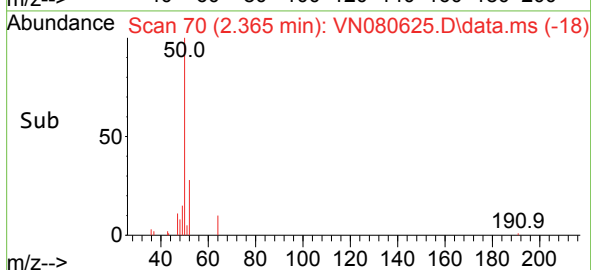
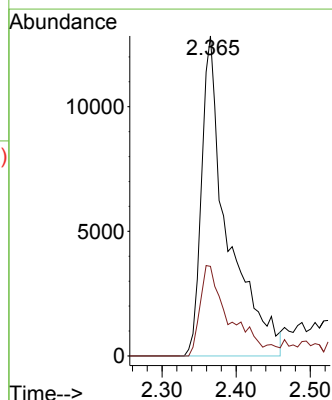
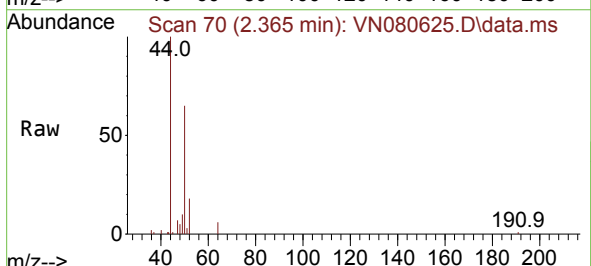
Acq: 02 Jan 2024 15:19

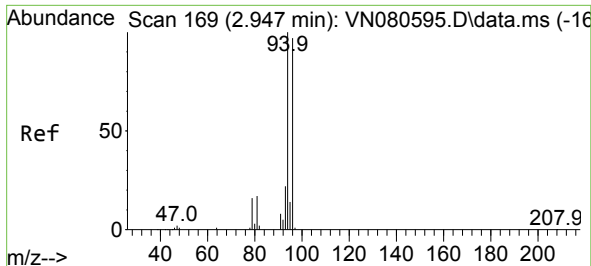
Tgt Ion: 50 Resp: 31330

Ion Ratio Lower Upper

50 100

52 28.0 26.5 39.7

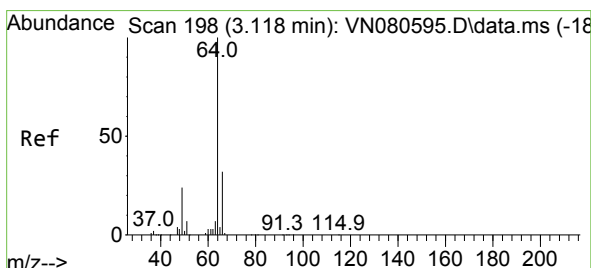
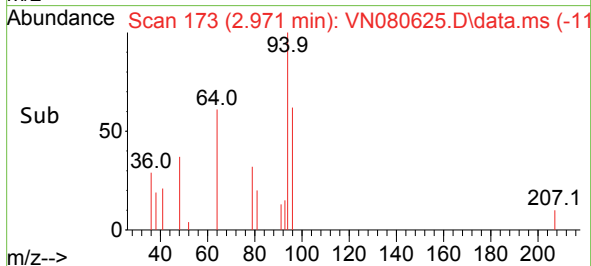
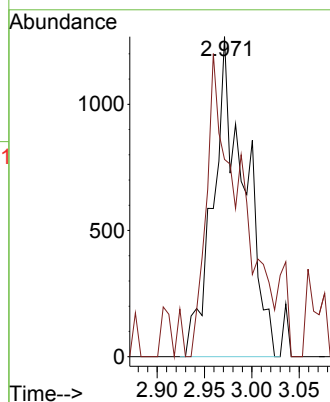
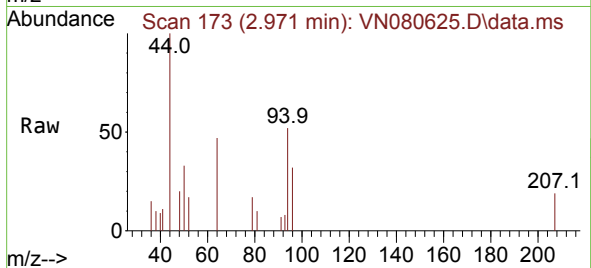




#5
Bromomethane
Concen: 2.159 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN080625.D
Acq: 02 Jan 2024 15:19

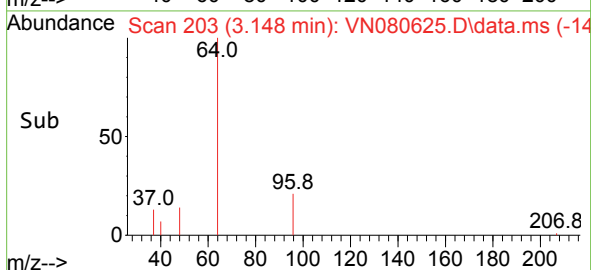
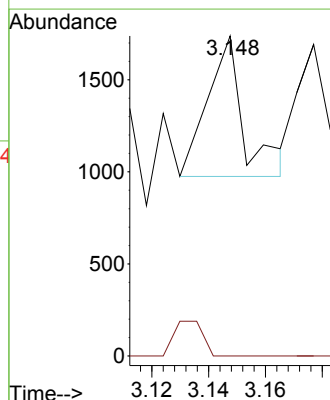
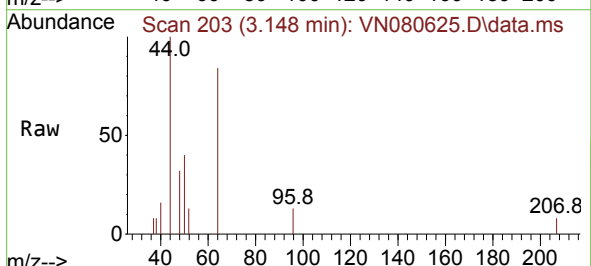
Instrument :
MSVOA_N
ClientSampleId :

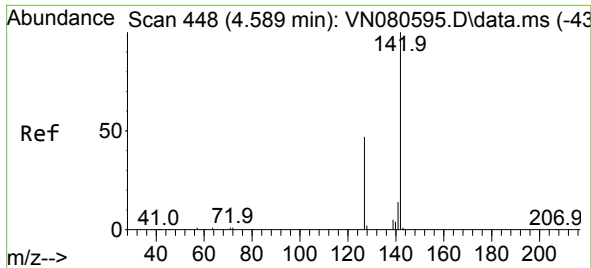
Tgt Ion: 94 Resp: 2917
Ion Ratio Lower Upper
94 100
96 46.8 73.1 109.7#



#6
Chloroethane
Concen: 0.303 ug/l
RT: 3.148 min Scan# 203
Delta R.T. 0.030 min
Lab File: VN080625.D
Acq: 02 Jan 2024 15:19

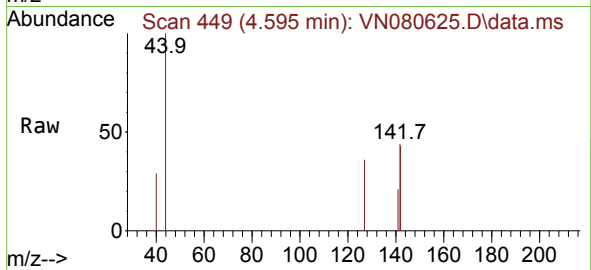
Tgt Ion: 64 Resp: 673
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



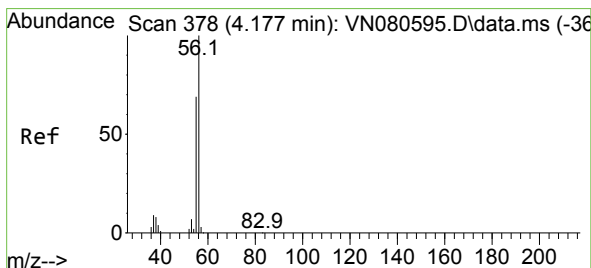
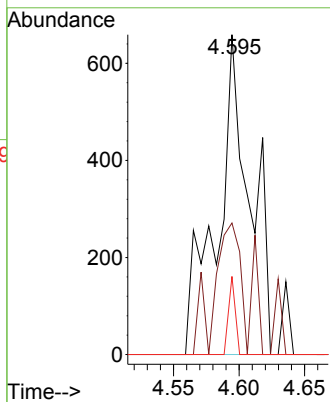
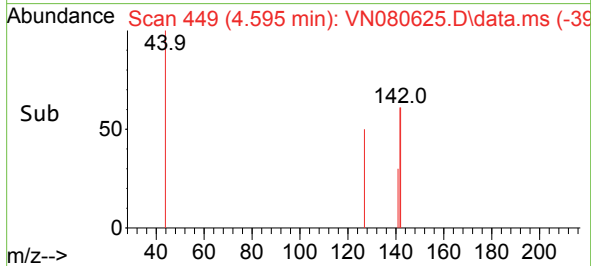


#10
Methyl Iodide
Concen: 0.601 ug/l
RT: 4.595 min Scan# 448
Delta R.T. 0.005 min
Lab File: VN080625.D
Acq: 02 Jan 2024 15:19

Instrument :
MSVOA_N
ClientSampleId :

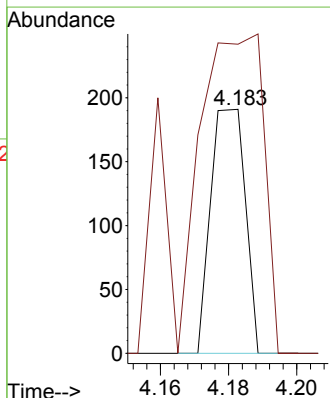
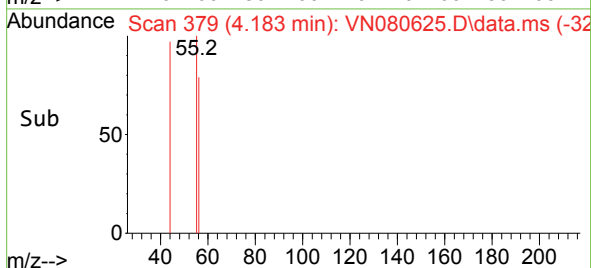
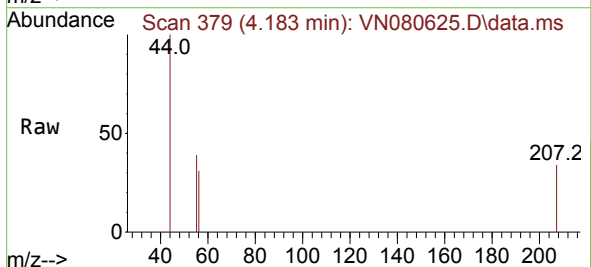


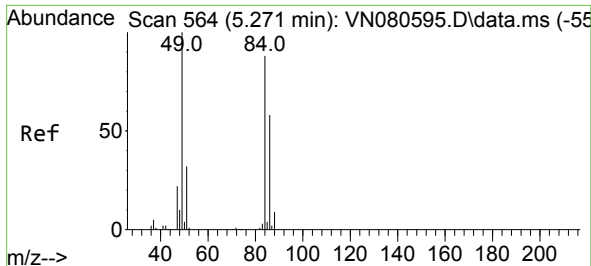
Tgt Ion:142 Resp: 1151
Ion Ratio Lower Upper
142 100
127 41.1 37.6 56.4
141 24.4 11.4 17.0#



#13
Acrolein
Concen: 0.239 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN080625.D
Acq: 02 Jan 2024 15:19

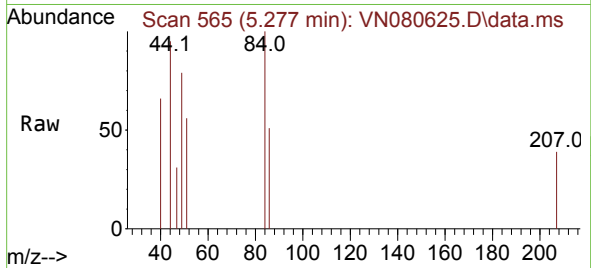
Tgt Ion: 56 Resp: 134
Ion Ratio Lower Upper
56 100
55 291.0 54.5 81.7#



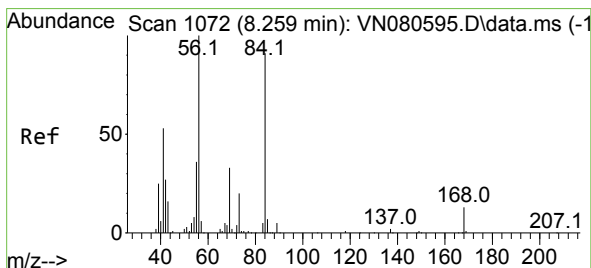
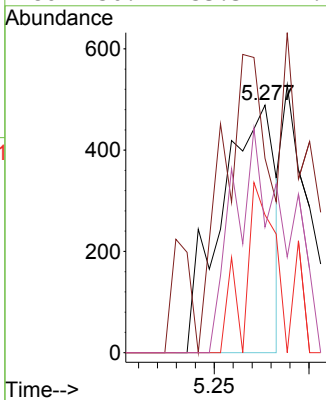
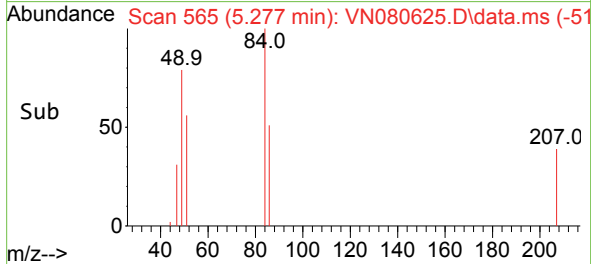


#20
Methylene Chloride
Concen: 0.303 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN080625.D
Acq: 02 Jan 2024 15:19

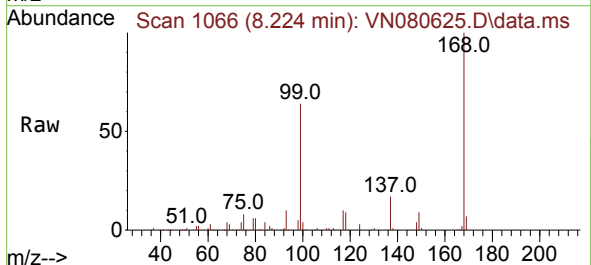
Instrument :
MSVOA_N
ClientSampleId :



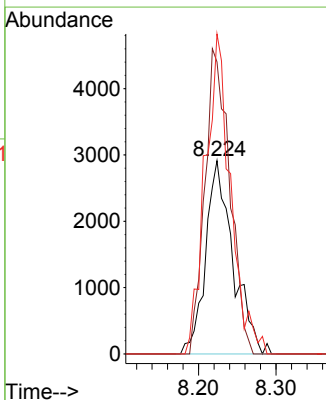
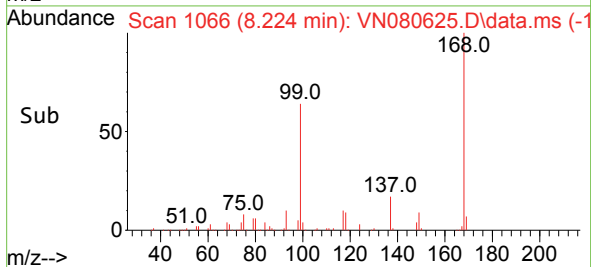
Tgt Ion: 84 Resp: 969
Ion Ratio Lower Upper
84 100
49 32.7 79.7 119.5#
51 55.6 25.2 37.8#
86 50.7 53.3 79.9#

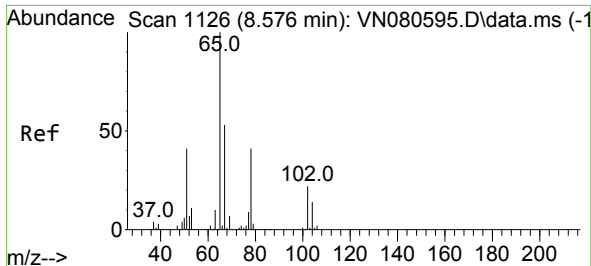


#31
Cyclohexane
Concen: 1.436 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN080625.D
Acq: 02 Jan 2024 15:19



Tgt Ion: 56 Resp: 7167
Ion Ratio Lower Upper
56 100
69 151.1 26.8 40.2#
84 165.6 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 49.762 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN080625.D

Acq: 02 Jan 2024 15:19

Instrument :

MSVOA_N

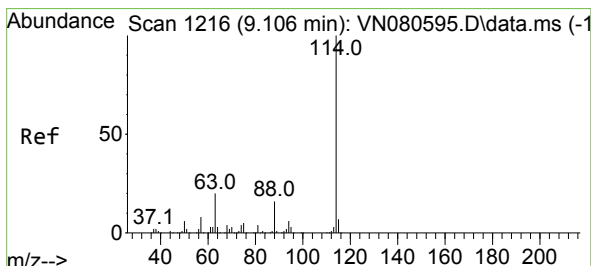
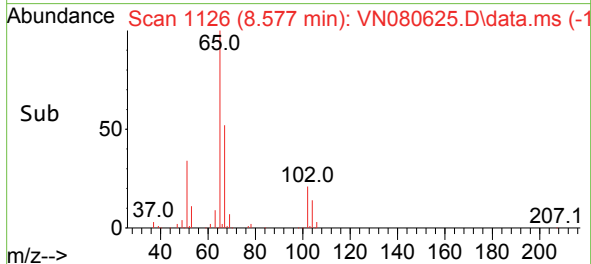
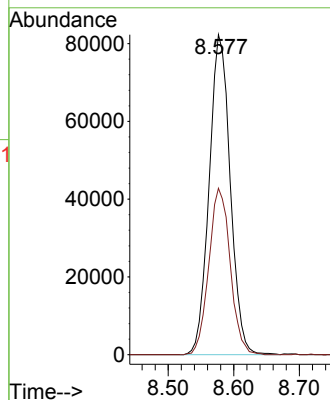
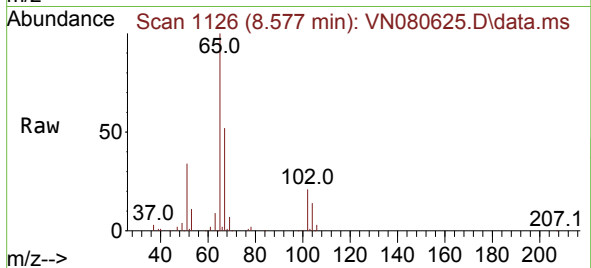
ClientSampleId :

Tgt Ion: 65 Resp: 183585

Ion Ratio Lower Upper

65 100

67 52.8 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: VN080625.D

Acq: 02 Jan 2024 15:19

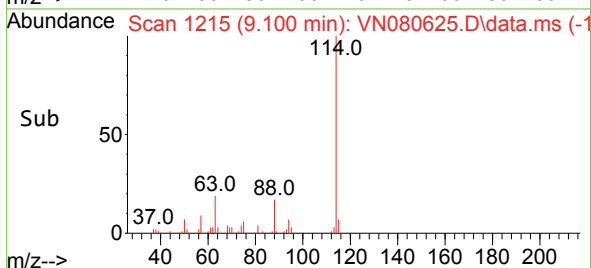
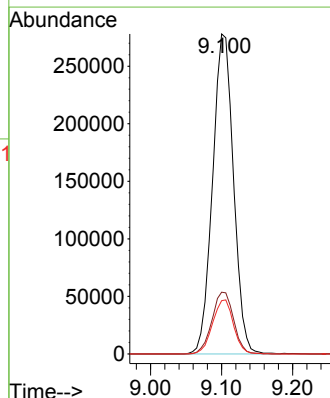
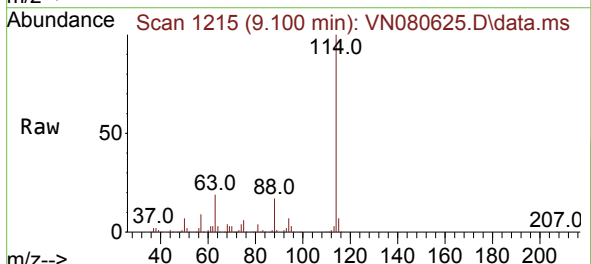
Tgt Ion: 114 Resp: 568509

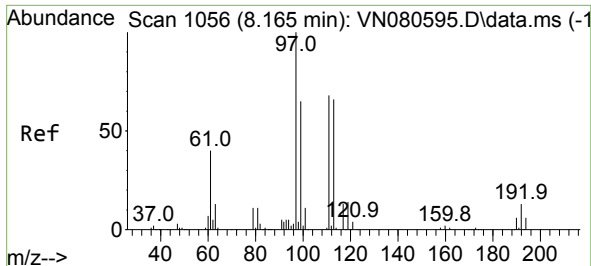
Ion Ratio Lower Upper

114 100

63 19.3 0.0 36.4

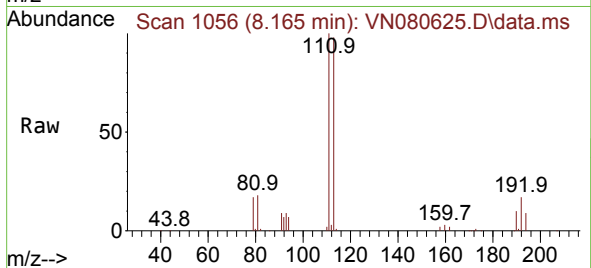
88 16.6 0.0 30.6



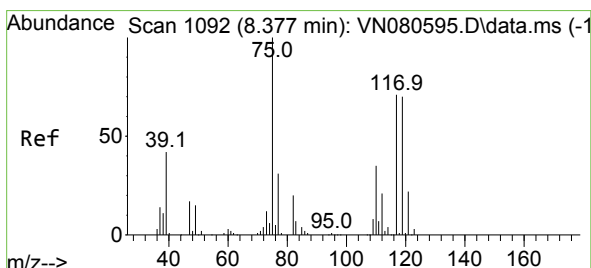
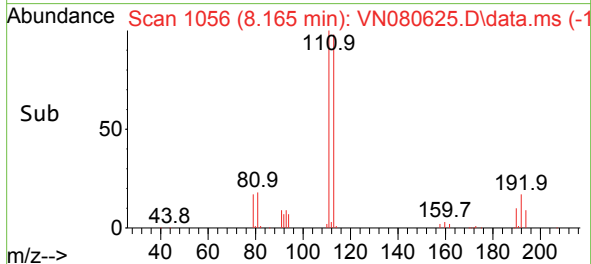
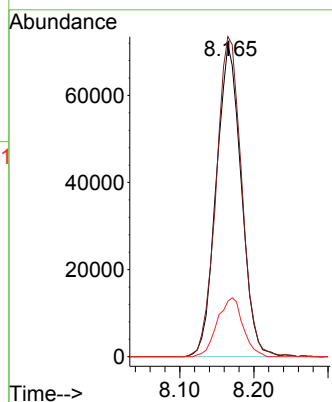


#35
Dibromofluoromethane
Concen: 45.634 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN080625.D
Acq: 02 Jan 2024 15:19

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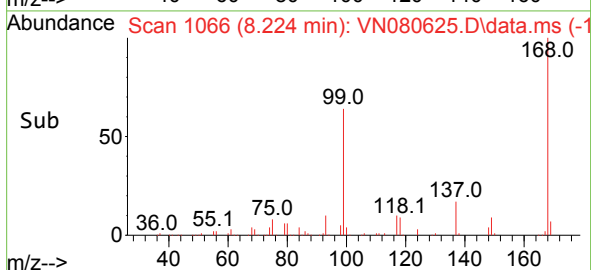
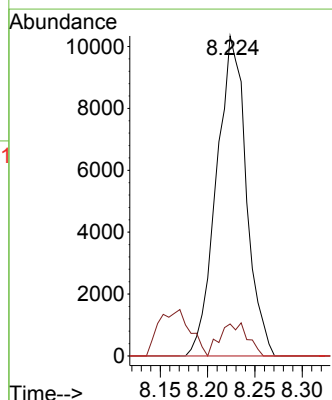
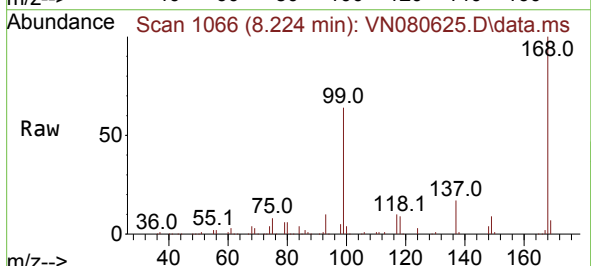


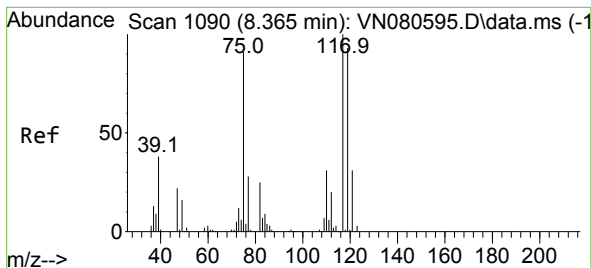
Tgt Ion:113 Resp: 167790
Ion Ratio Lower Upper
113 100
111 104.4 82.6 123.8
192 19.3 12.7 19.1#



#36
1,1-Dichloropropene
Concen: 3.996 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.153 min
Lab File: VN080625.D
Acq: 02 Jan 2024 15:19

Tgt Ion: 75 Resp: 22611
Ion Ratio Lower Upper
75 100
110 9.5 19.1 57.3#
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.206 ug/l

RT: 8.218 min Scan# 1

Delta R.T. -0.147 min

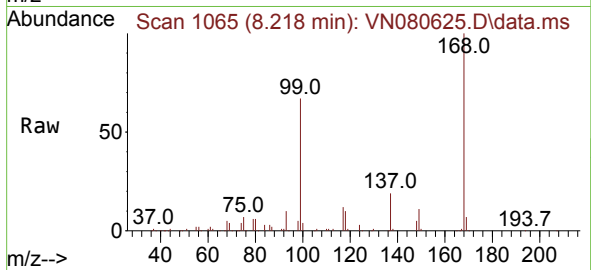
Lab File: VN080625.D

Acq: 02 Jan 2024 15:19

Instrument :

MSVOA_N

ClientSampleId :



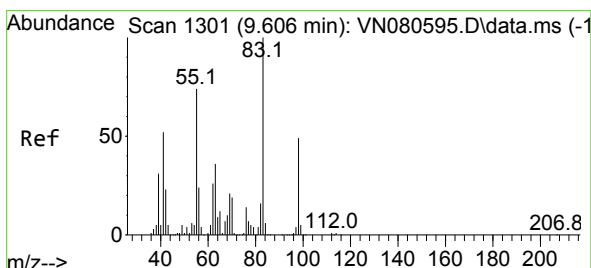
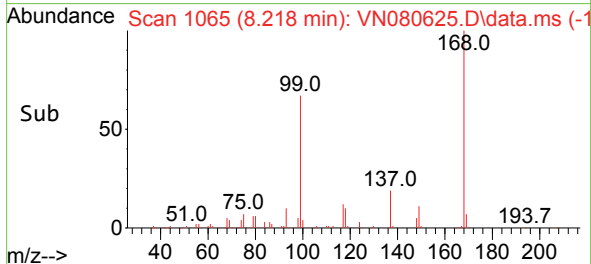
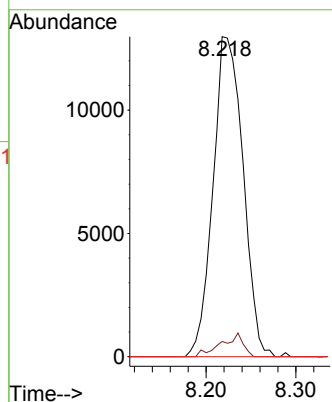
Tgt Ion:117 Resp: 30135

Ion Ratio Lower Upper

117 100

119 4.7 77.3 115.9#

121 0.0 23.3 34.9#



#39

Methylcyclohexane

Concen: 0.639 ug/l

RT: 9.588 min Scan# 1298

Delta R.T. -0.018 min

Lab File: VN080625.D

Acq: 02 Jan 2024 15:19

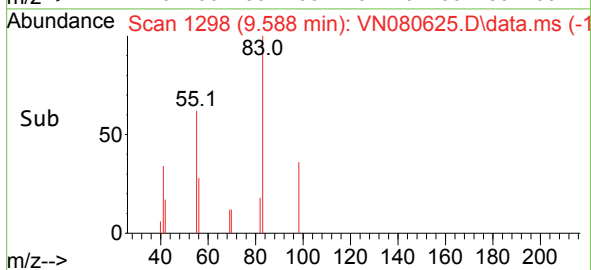
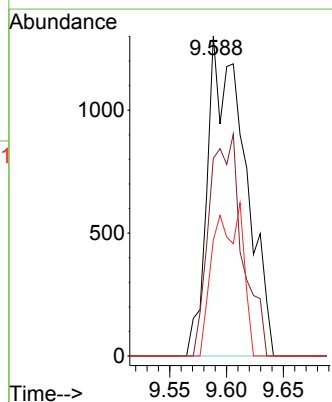
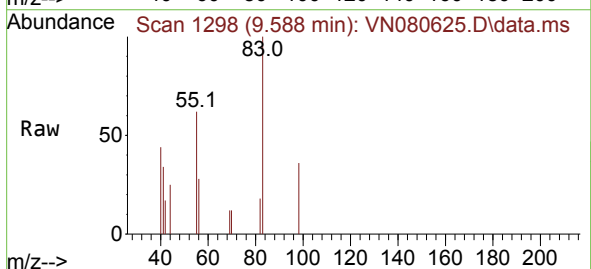
Tgt Ion: 83 Resp: 2966

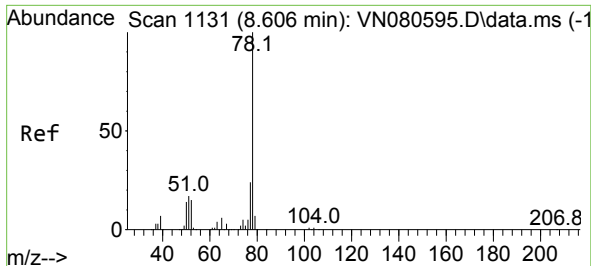
Ion Ratio Lower Upper

83 100

55 61.8 49.1 73.7

98 36.3 40.6 61.0#

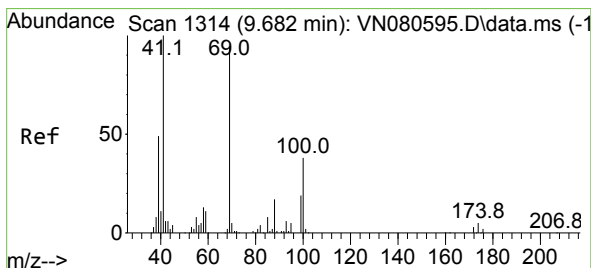
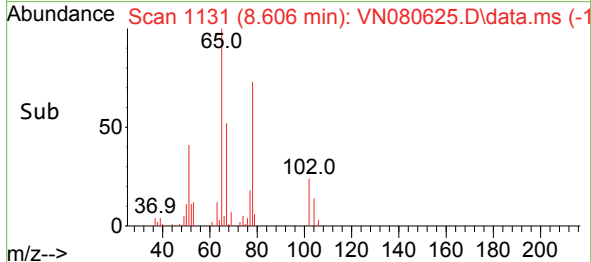
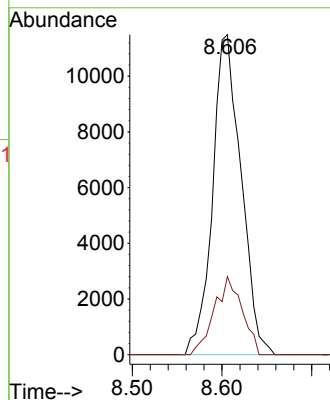
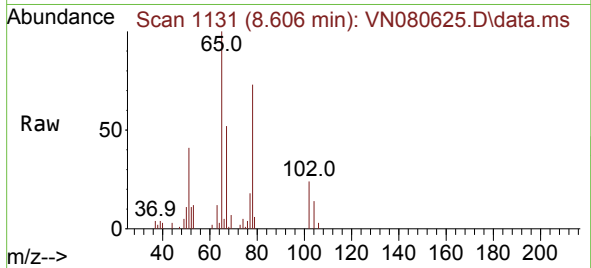




#40
Benzene
Concen: 1.896 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VN080625.D
Acq: 02 Jan 2024 15:19

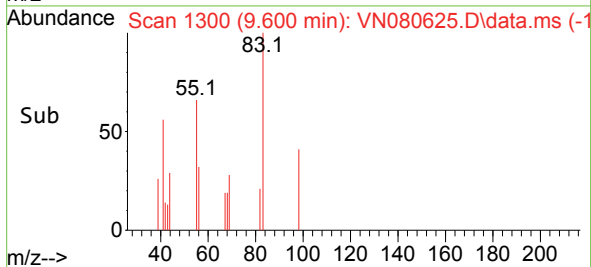
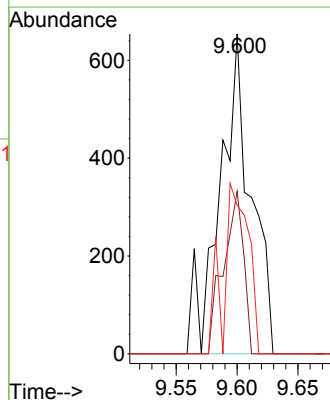
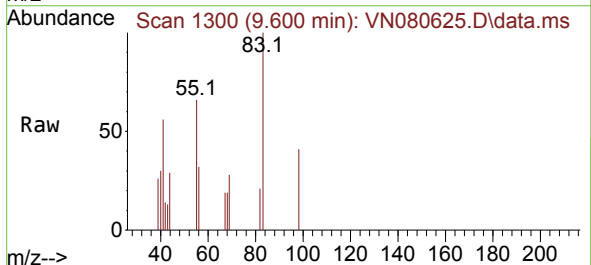
Instrument :
MSVOA_N
ClientSampleId :

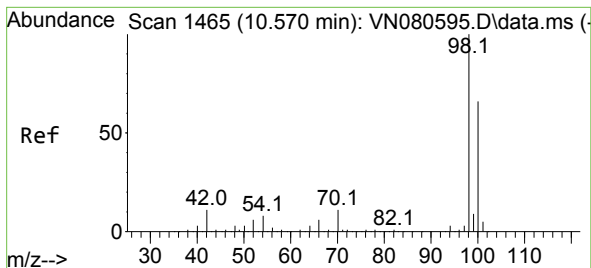
Tgt Ion: 78 Resp: 25350
Ion Ratio Lower Upper
78 100
77 24.4 19.0 28.6



#48
Methyl methacrylate
Concen: 0.303 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.082 min
Lab File: VN080625.D
Acq: 02 Jan 2024 15:19

Tgt Ion: 41 Resp: 1164
Ion Ratio Lower Upper
41 100
69 33.0 90.4 135.6#
39 42.4 54.6 81.8#





#50

Toluene-d8

Concen: 48.733 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN080625.D

Acq: 02 Jan 2024 15:19

Instrument :

MSVOA_N

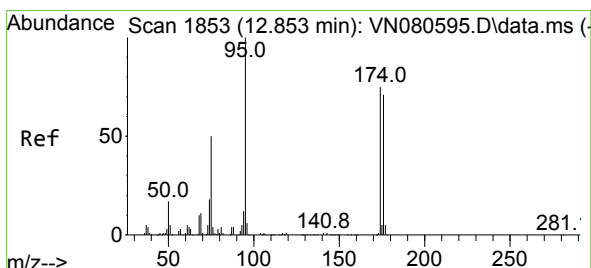
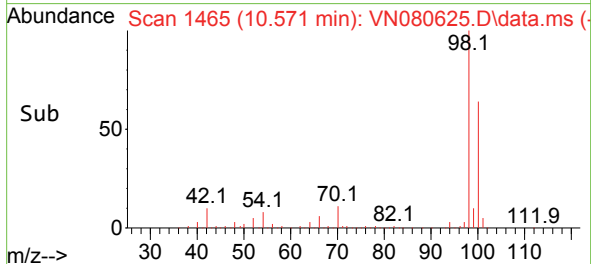
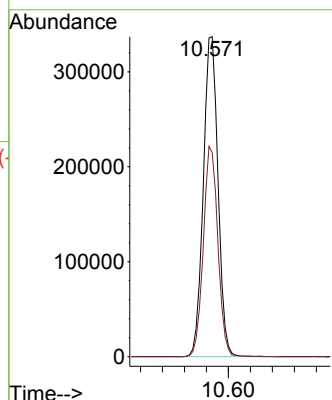
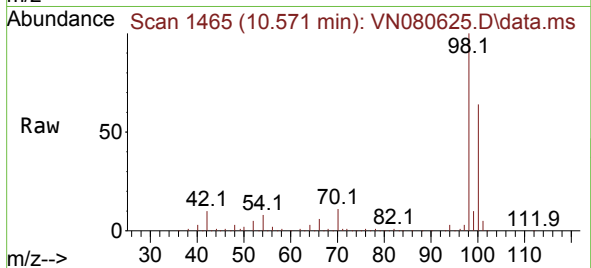
ClientSampleId :

Tgt Ion: 98 Resp: 625628

Ion Ratio Lower Upper

98 100

100 64.9 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 61.839 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VN080625.D

Acq: 02 Jan 2024 15:19

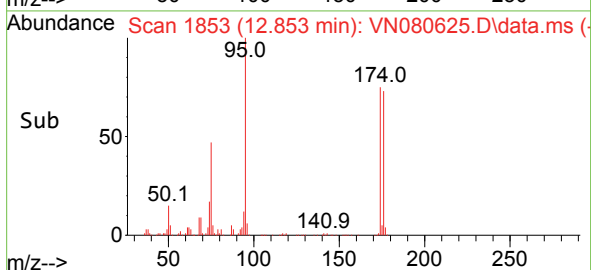
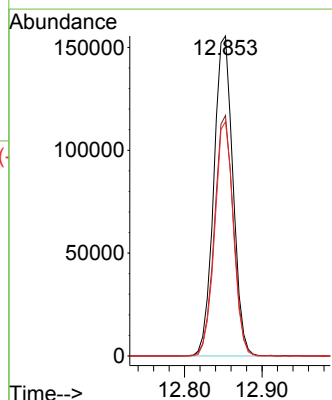
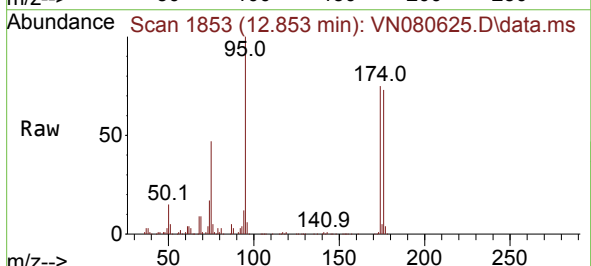
Tgt Ion: 95 Resp: 267180

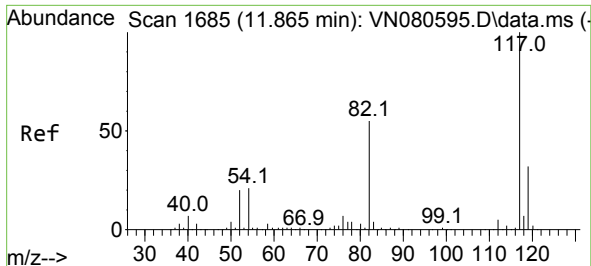
Ion Ratio Lower Upper

95 100

174 74.3 0.0 143.8

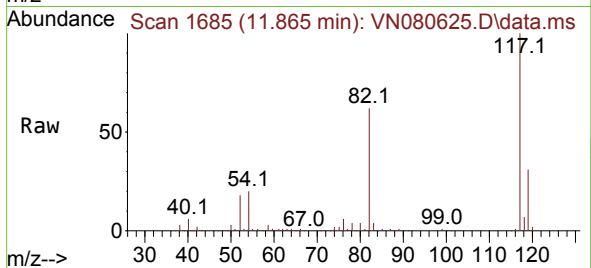
176 71.2 0.0 135.8



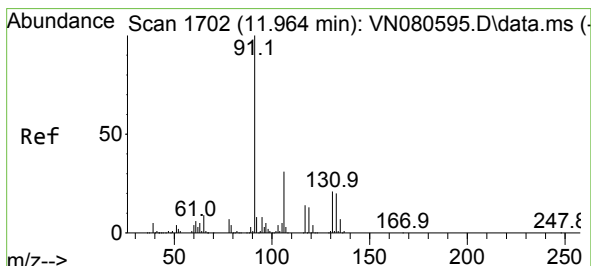
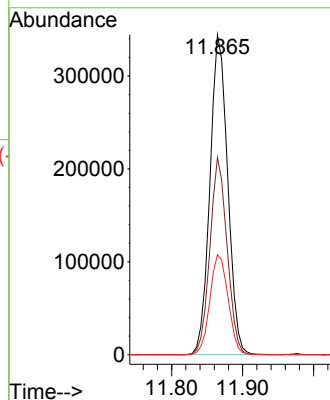
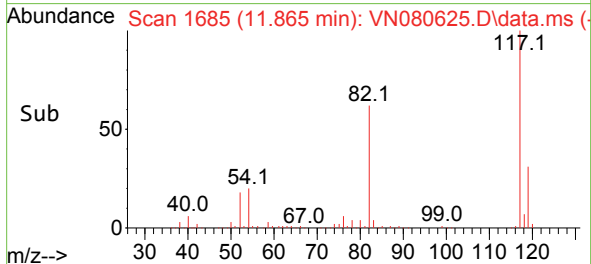


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN080625.D
Acq: 02 Jan 2024 15:19

Instrument :
MSVOA_N
ClientSampleId :

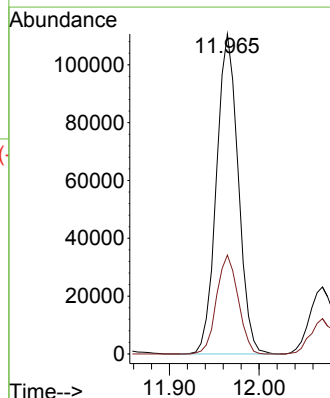
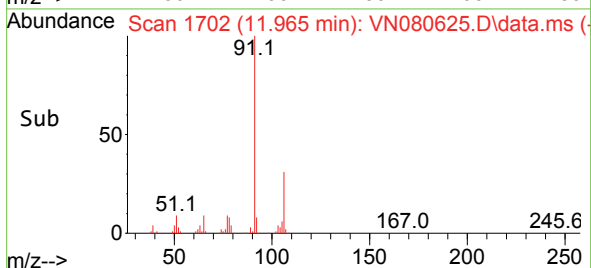
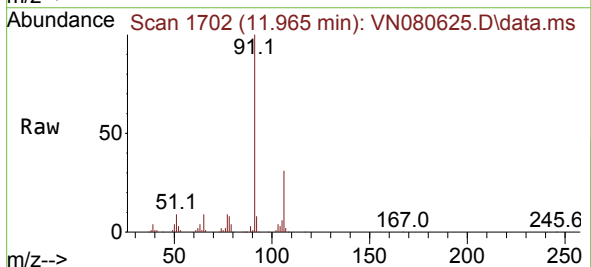


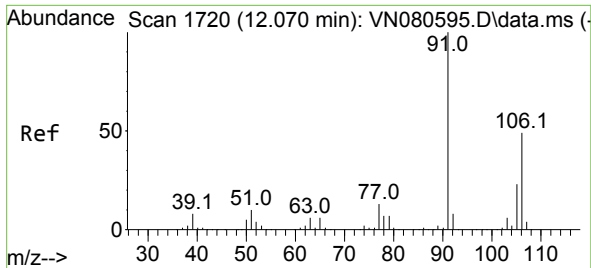
Tgt Ion:117 Resp: 597230
Ion Ratio Lower Upper
117 100
82 61.7 44.0 66.0
119 31.3 25.6 38.4



#67
Ethyl Benzene
Concen: 8.967 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN080625.D
Acq: 02 Jan 2024 15:19

Tgt Ion: 91 Resp: 186243
Ion Ratio Lower Upper
91 100
106 30.9 25.6 38.4

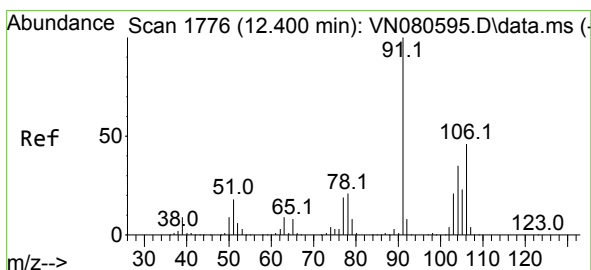
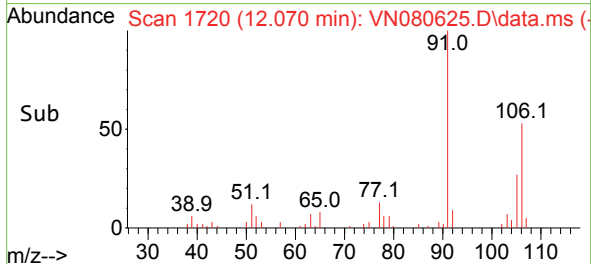
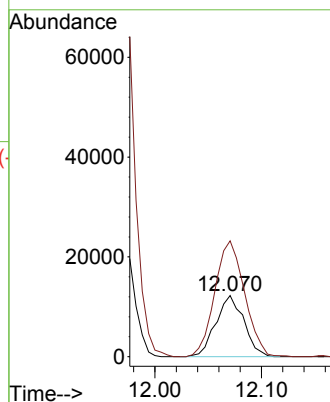
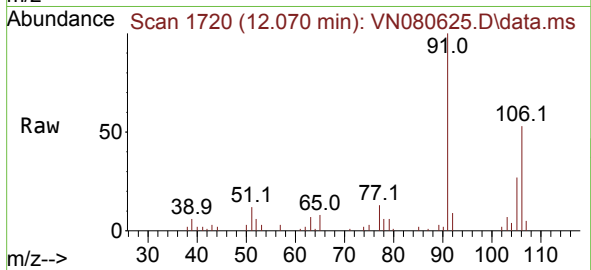




#68
m/p-Xylenes
Concen: 2.904 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN080625.D
Acq: 02 Jan 2024 15:19

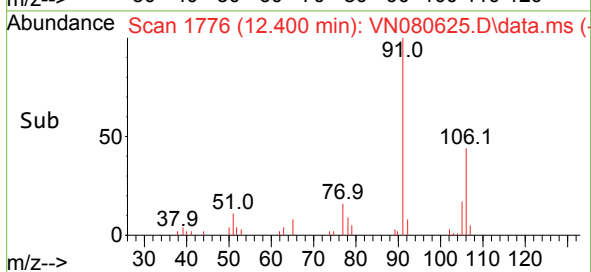
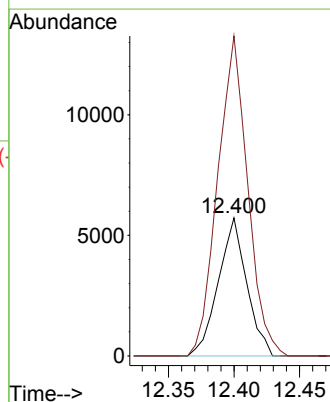
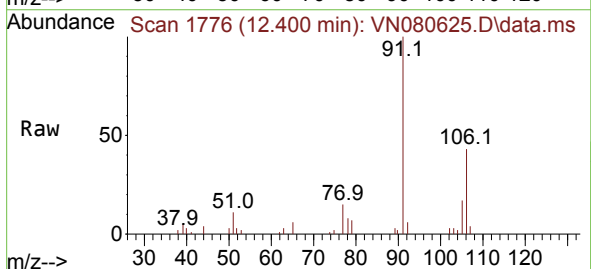
Instrument :
MSVOA_N
ClientSampleId :

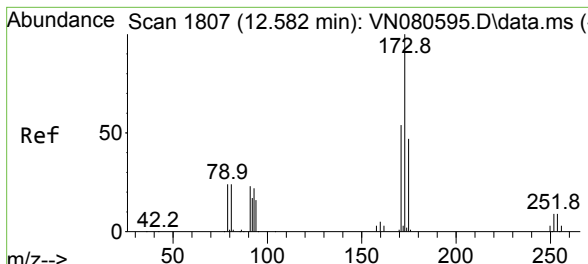
Tgt Ion:106 Resp: 22380
Ion Ratio Lower Upper
106 100
91 202.1 159.6 239.4



#69
o-Xylene
Concen: 1.140 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN080625.D
Acq: 02 Jan 2024 15:19

Tgt Ion:106 Resp: 8632
Ion Ratio Lower Upper
106 100
91 244.6 105.2 315.5

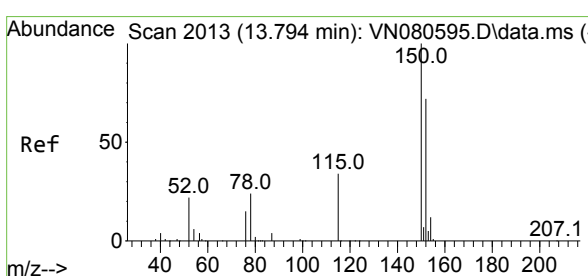
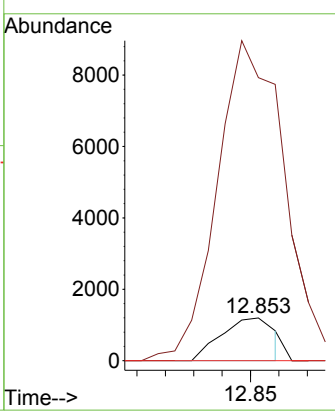
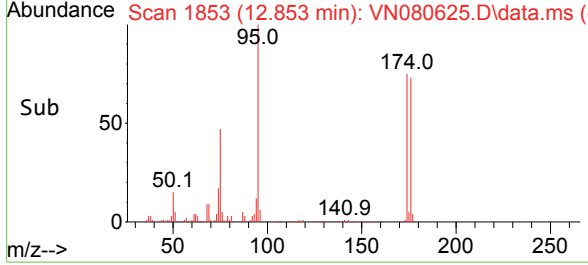
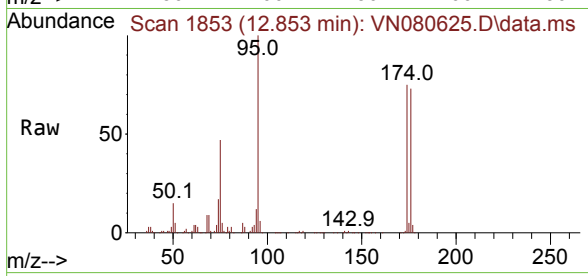




#71
 Bromoform
 Concen: 0.463 ug/l
 RT: 12.853 min Scan# 1807
 Delta R.T. 0.271 min
 Lab File: VN080625.D
 Acq: 02 Jan 2024 15:19

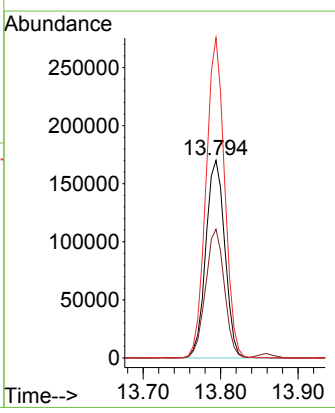
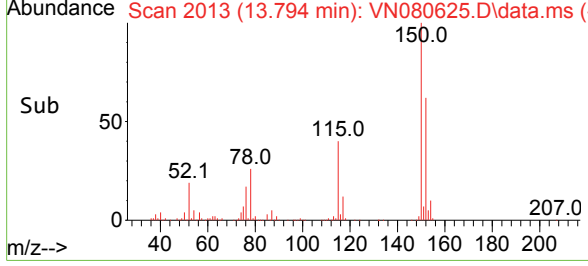
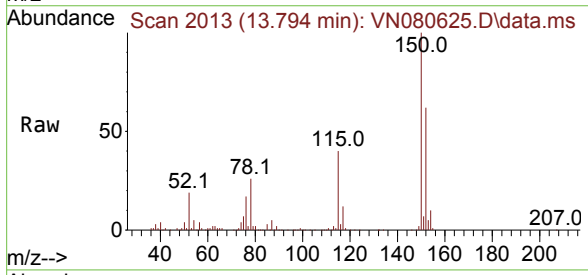
Instrument :
 MSVOA_N
 ClientSampleId :

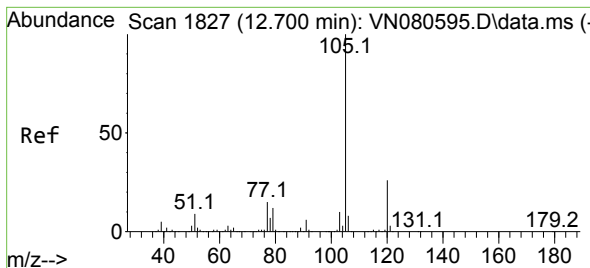
Tgt Ion:	173	Resp:	1566
Ion Ratio	Lower	Upper	
173	100		
175	810.5	24.3	73.0#
254	0.0	0.0	0.0



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 2013
 Delta R.T. 0.000 min
 Lab File: VN080625.D
 Acq: 02 Jan 2024 15:19

Tgt Ion:	152	Resp:	291184
Ion Ratio	Lower	Upper	
152	100		
115	64.2	32.3	96.8
150	157.9	0.0	355.8





#73

Isopropylbenzene

Concen: 1.066 ug/l

RT: 12.700 min Scan# 1827

Delta R.T. 0.000 min

Lab File: VN080625.D

Acq: 02 Jan 2024 15:19

Instrument :

MSVOA_N

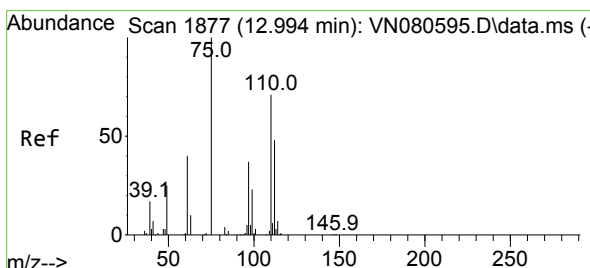
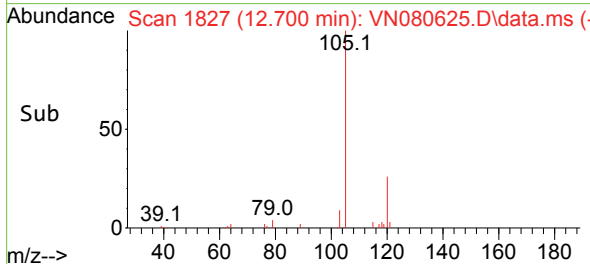
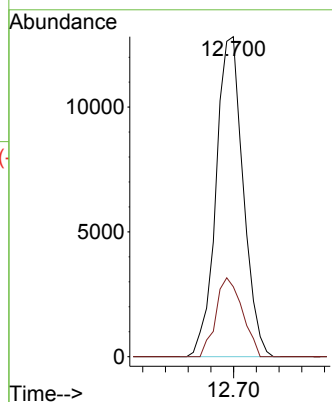
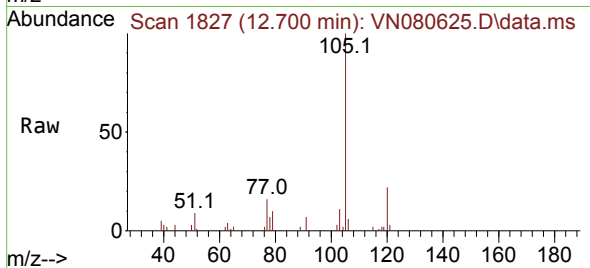
ClientSampleId :

Tgt Ion:105 Resp: 21240

Ion Ratio Lower Upper

105 100

120 24.1 13.1 39.1



#76

1,2,3-Trichloropropane

Concen: 20.822 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN080625.D

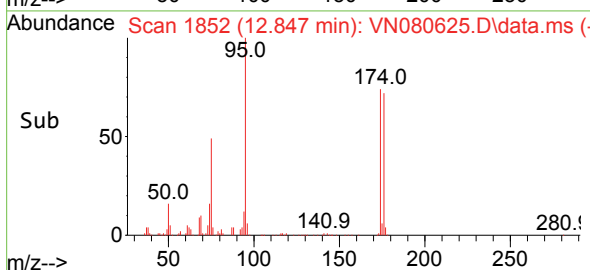
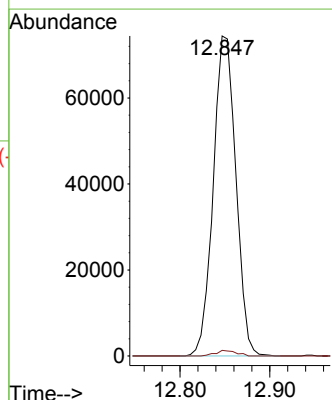
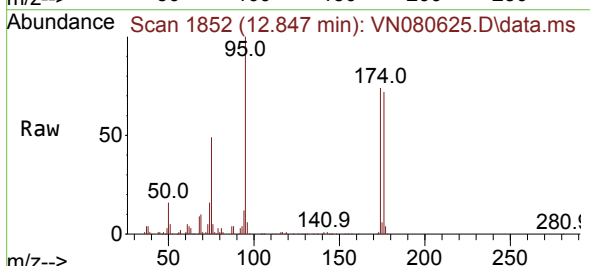
Acq: 02 Jan 2024 15:19

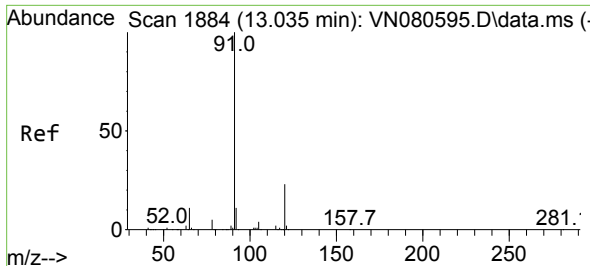
Tgt Ion: 75 Resp: 130406

Ion Ratio Lower Upper

75 100

77 1.6 84.5 253.5#

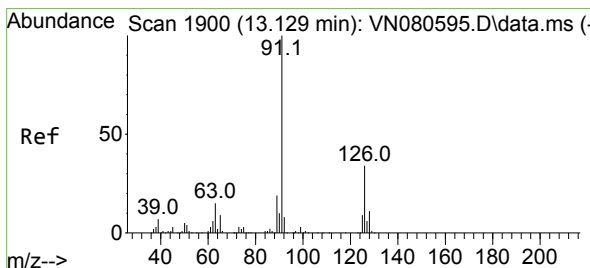
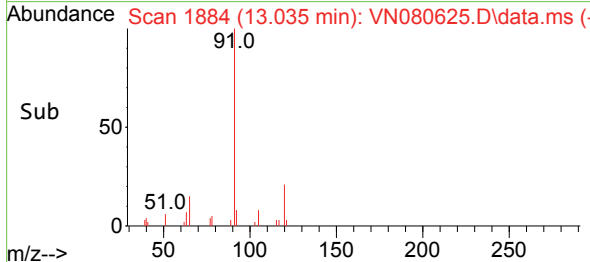
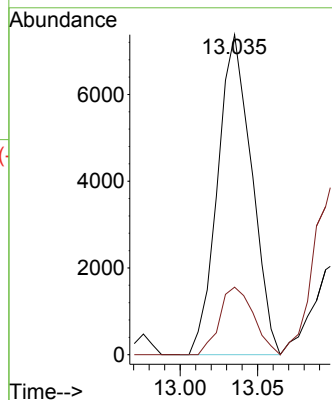
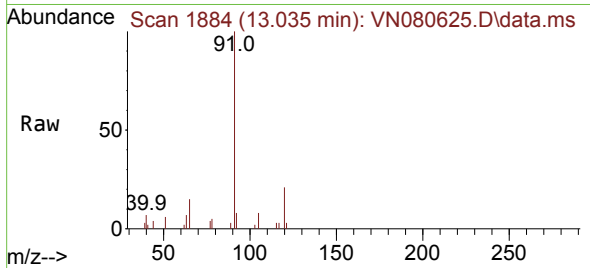




#78
n-propylbenzene
Concen: 0.494 ug/l
RT: 13.035 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN080625.D
Acq: 02 Jan 2024 15:19

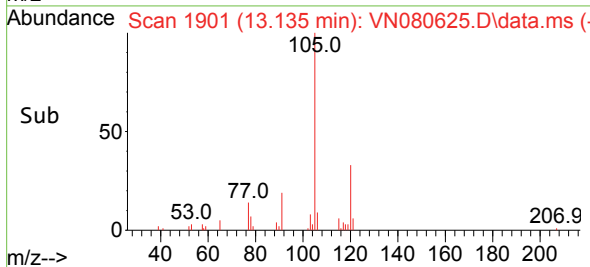
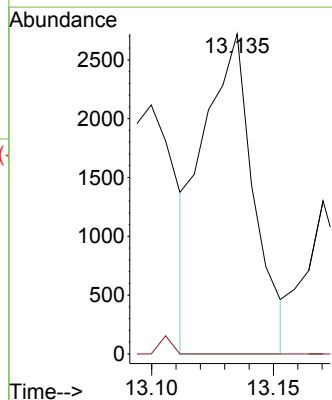
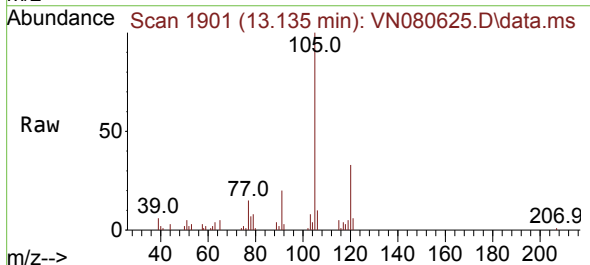
Instrument :
MSVOA_N
ClientSampleId :

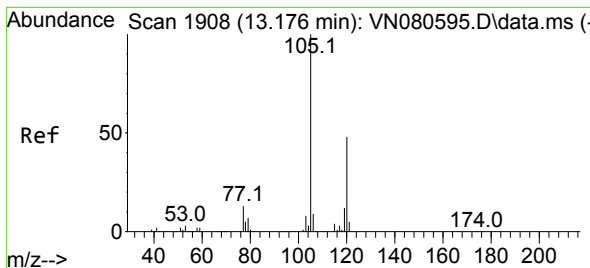
Tgt Ion: 91 Resp: 11265
Ion Ratio Lower Upper
91 100
120 21.0 11.5 34.4



#79
2-Chlorotoluene
Concen: 0.267 ug/l
RT: 13.135 min Scan# 1901
Delta R.T. 0.006 min
Lab File: VN080625.D
Acq: 02 Jan 2024 15:19

Tgt Ion: 91 Resp: 3970
Ion Ratio Lower Upper
91 100
126 0.0 16.3 48.8#





#80

1,3,5-Trimethylbenzene

Concen: 0.885 ug/l

RT: 13.176 min Scan# 1908

Delta R.T. 0.000 min

Lab File: VN080625.D

Acq: 02 Jan 2024 15:19

Instrument :

MSVOA_N

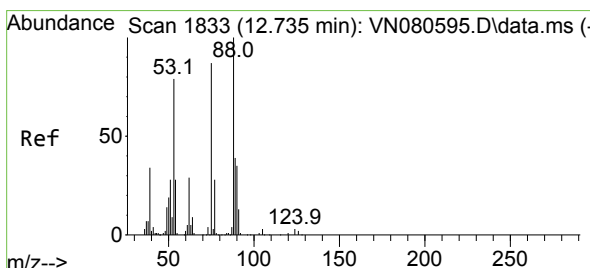
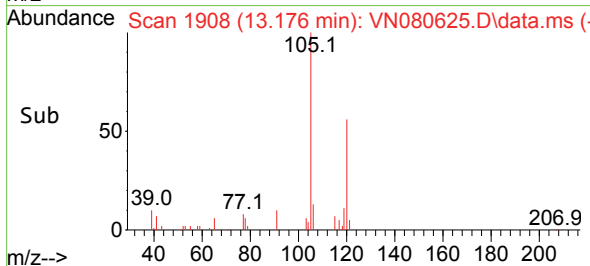
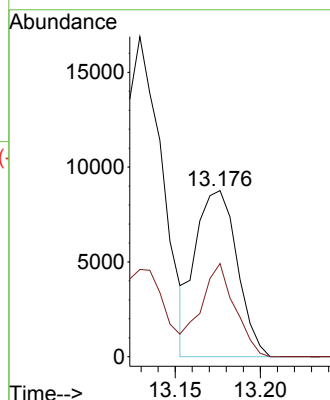
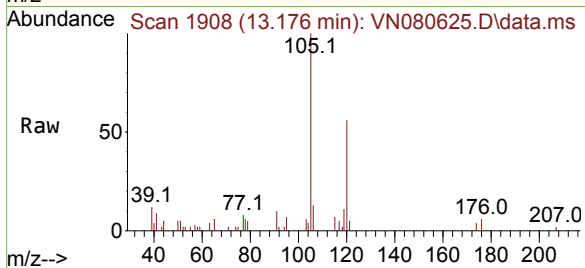
ClientSampleId :

Tgt Ion:105 Resp: 14900

Ion Ratio Lower Upper

105 100

120 46.0 24.1 72.3



#81

trans-1,4-Dichloro-2-butene

Concen: 56.402 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN080625.D

Acq: 02 Jan 2024 15:19

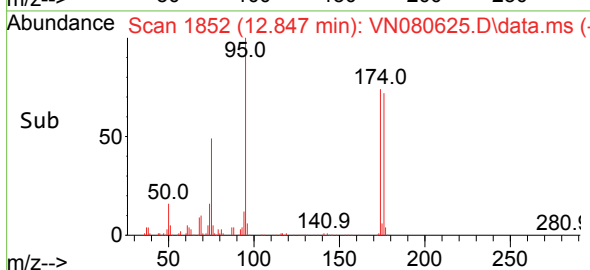
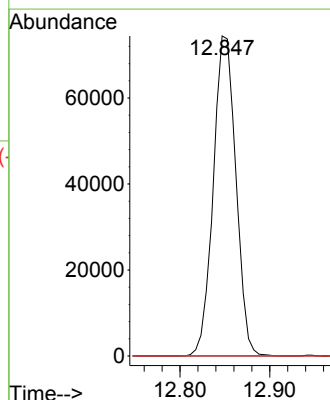
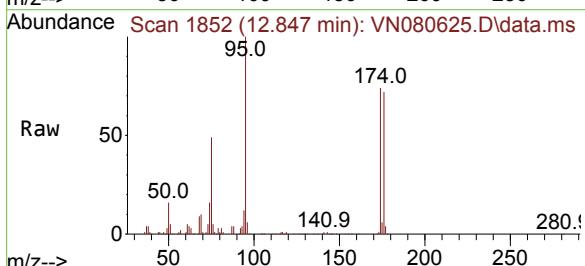
Tgt Ion: 75 Resp: 130406

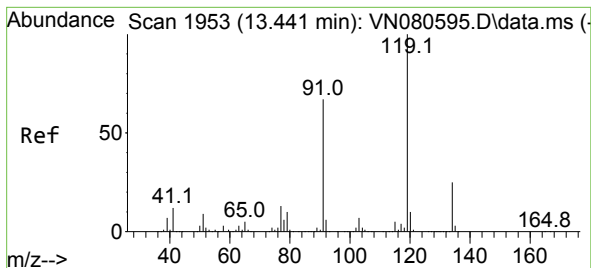
Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

89 0.0 38.8 58.2#





#83

tert-Butylbenzene

Concen: 0.557 ug/l

RT: 13.488 min Scan# 1961

Delta R.T. 0.047 min

Lab File: VN080625.D

Acq: 02 Jan 2024 15:19

Instrument :

MSVOA_N

ClientSampleId :

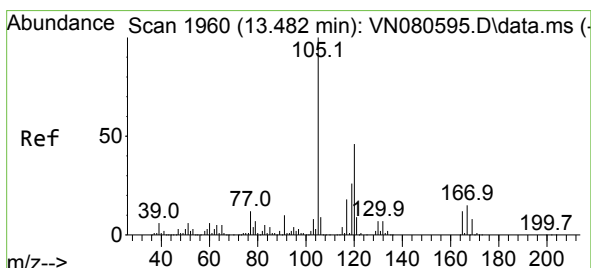
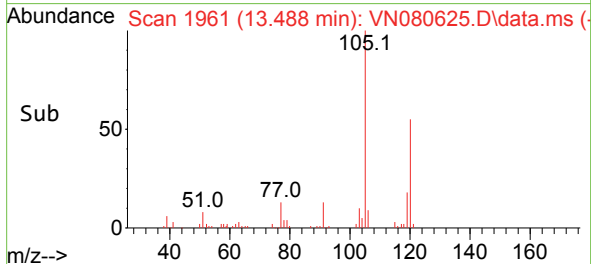
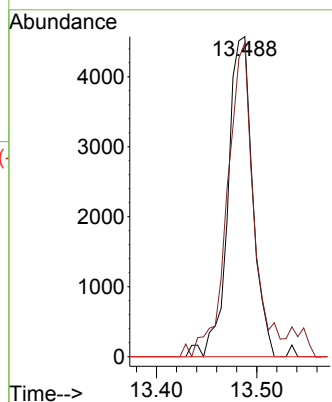
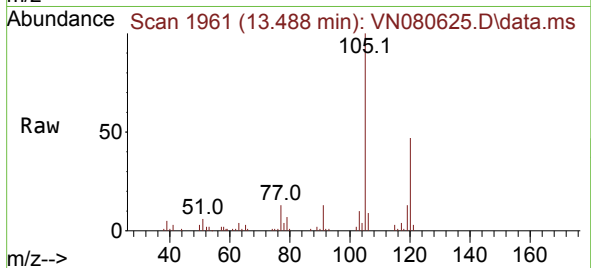
Tgt Ion:119 Resp: 7830

Ion Ratio Lower Upper

119 100

91 106.0 33.9 101.7#

134 0.0 13.2 39.6#



#84

1,2,4-Trimethylbenzene

Concen: 3.673 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN080625.D

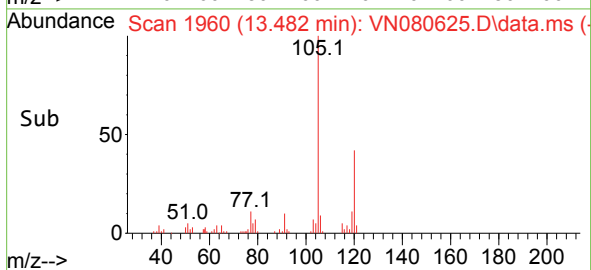
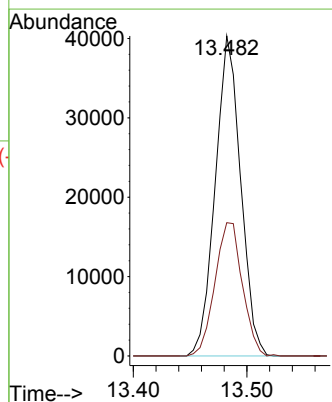
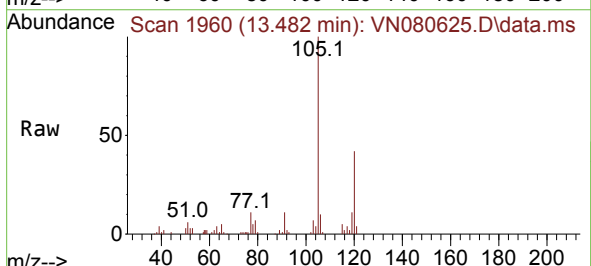
Acq: 02 Jan 2024 15:19

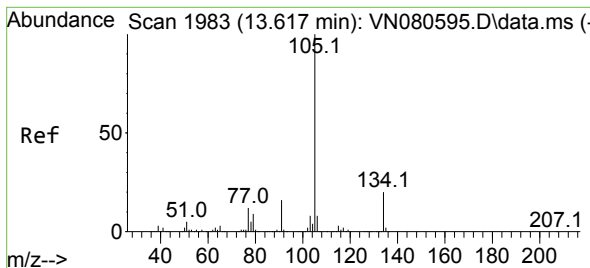
Tgt Ion:105 Resp: 62592

Ion Ratio Lower Upper

105 100

120 45.0 22.0 66.0





#85

sec-Butylbenzene

Concen: 3.363 ug/l

RT: 13.482 min Scan# 1983

Delta R.T. -0.135 min

Lab File: VN080625.D

Acq: 02 Jan 2024 15:19

Instrument :

MSVOA_N

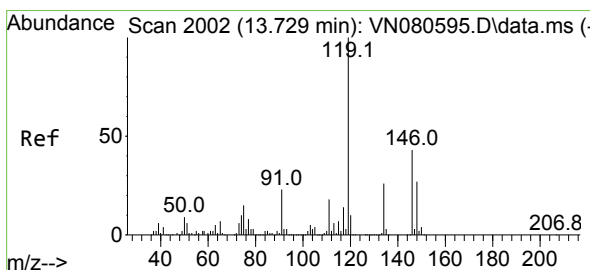
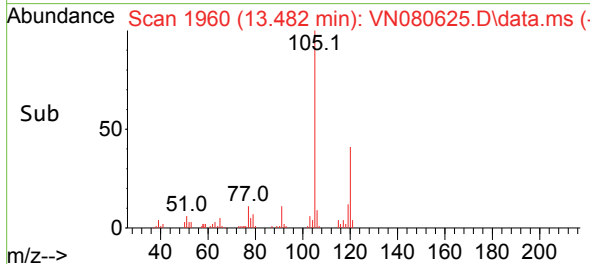
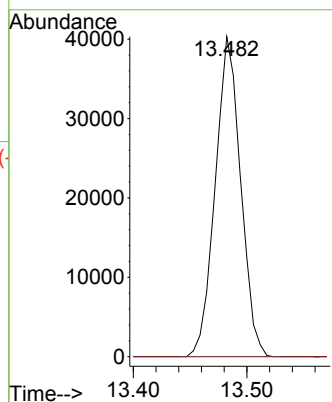
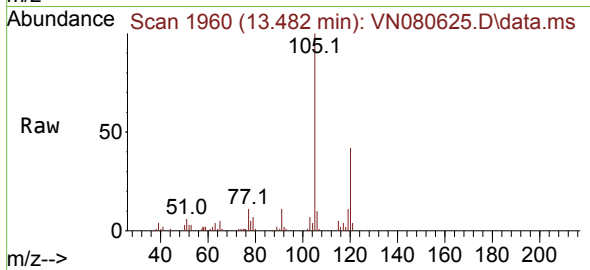
ClientSampleId :

Tgt Ion:105 Resp: 62592

Ion Ratio Lower Upper

105 100

134 0.0 9.8 29.3#



#86

p-Isopropyltoluene

Concen: 0.744 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.006 min

Lab File: VN080625.D

Acq: 02 Jan 2024 15:19

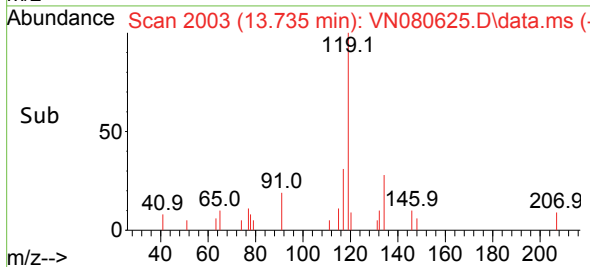
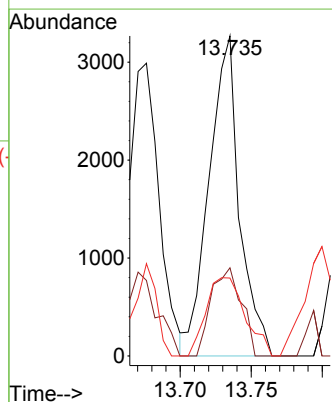
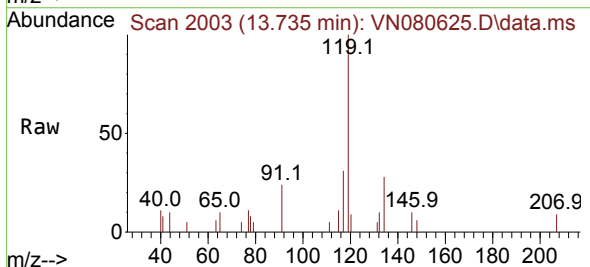
Tgt Ion:119 Resp: 4872

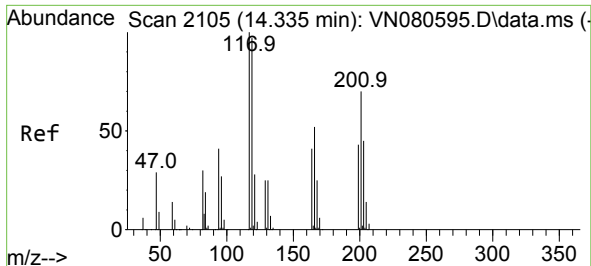
Ion Ratio Lower Upper

119 100

134 27.3 12.6 37.8

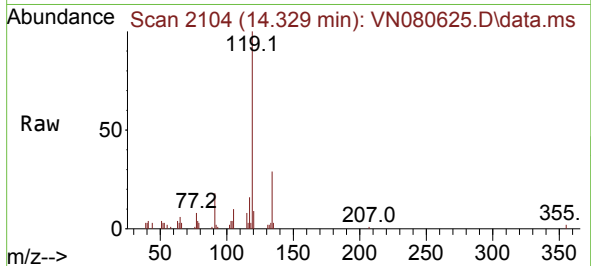
91 31.4 12.4 37.2



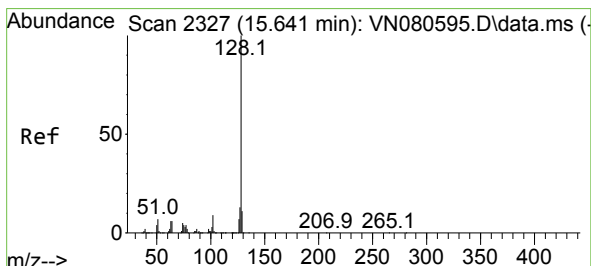
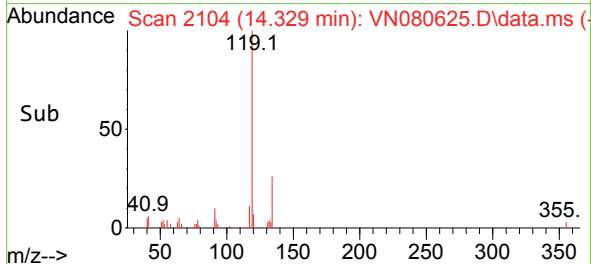
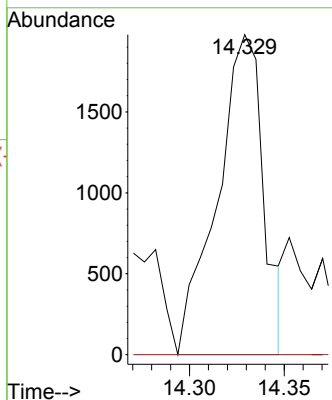


#90
Hexachloroethane
Concen: 1.161 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN080625.D
Acq: 02 Jan 2024 15:19

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:117 Resp: 3372
Ion Ratio Lower Upper
117 100
201 0.0 29.3 88.0#



#95
Naphthalene
Concen: 68.742 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN080625.D
Acq: 02 Jan 2024 15:19

Tgt Ion:128 Resp: 1039340
Ion Ratio Lower Upper
128 100
127 12.8 10.0 15.0
129 10.9 8.7 13.1

