

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021424\
 Data File : VN081033.D
 Acq On : 14 Feb 2024 18:31
 Operator : JC\MD
 Sample : IBL;K
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

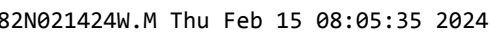
Quant Time: Feb 15 08:05:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021424W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 15 07:59:19 2024
 Response via : Initial Calibration

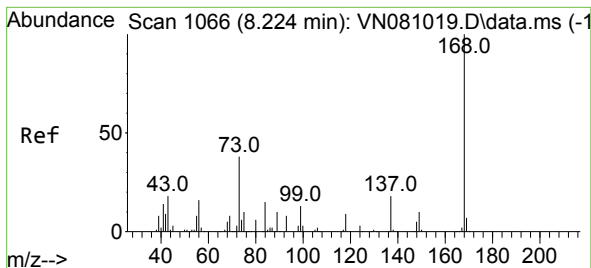
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	494402	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	929780	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	793421	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	276123	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	312202	51.339	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 102.680%	
35) Dibromofluoromethane	8.171	113	250186	46.931	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 93.860%	
50) Toluene-d8	10.570	98	820469	43.640	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 87.280%	
62) 4-Bromofluorobenzene	12.853	95	284821	44.544	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 89.080%	
Target Compounds						Qvalue
3) Chloromethane	2.371	50	8186	0.875	ug/l	94
5) Bromomethane	2.983	94	1495	0.445	ug/l #	34
13) Acrolein	4.183	56	5231	Below Cal		93
16) Acetone	4.447	43	4976	2.090	ug/l	96
20) Methylene Chloride	5.271	84	1425	0.230	ug/l #	49
31) Cyclohexane	8.224	56	13716	1.298	ug/l #	16
36) 1,1-Dichloropropene	8.224	75	41806	4.700	ug/l #	53
38) Carbon Tetrachloride	8.306	117	1860	0.286	ug/l #	17
49) 1,4-Dioxane	9.700	88	2343	Below Cal		88
55) 1,1,2-Trichloroethane	11.041	97	1329	0.215	ug/l #	38
60) Dibromochloromethane	11.300	129	1657	0.282	ug/l	81
66) 1,1,1,2-Tetrachloroethane	12.000	131	1238	0.216	ug/l #	49
71) Bromoform	12.594	173	2990	1.026	ug/l #	30
76) 1,2,3-Trichloropropane	12.853	75	155248	25.445	ug/l #	1
79) 2-Chlorotoluene	13.117	91	4441	0.242	ug/l	75
81) trans-1,4-Dichloro-2-b...	12.853	75	155248	59.233	ug/l #	15
82) 4-Chlorotoluene	13.117	91	4441	0.250	ug/l	73
85) sec-Butylbenzene	13.494	105	12565	0.494	ug/l	86
86) p-Isopropyltoluene	13.764	119	13977	0.684	ug/l #	49
87) 1,3-Dichlorobenzene	13.723	146	2604	0.271	ug/l #	44
88) 1,4-Dichlorobenzene	13.800	146	3044	0.307	ug/l #	1
89) n-Butylbenzene	14.000	91	5975	0.319	ug/l #	50
90) Hexachloroethane	14.282	117	1733	Below Cal		72
92) 1,2-Dibromo-3-Chloropr...	14.717	75	186	Below Cal		# 1
95) Naphthalene	15.647	128	6248	0.315	ug/l #	79
96) 1,2,3-Trichlorobenzene	15.870	180	1652	0.302	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN081033.D

Acq: 14 Feb 2024 18:31

Instrument :

MSVOA_N

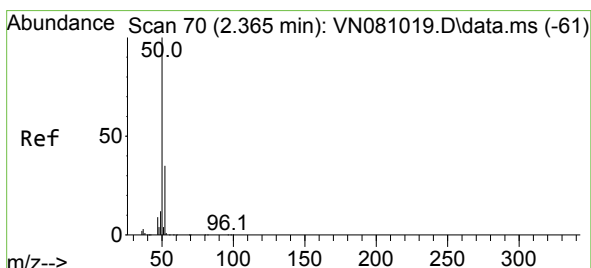
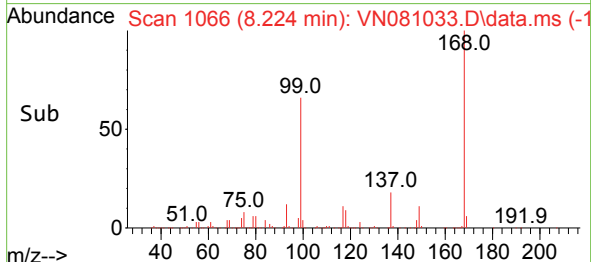
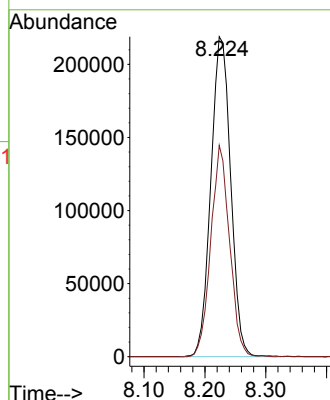
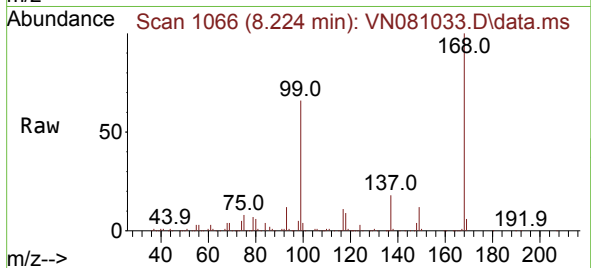
ClientSampleId :

Tgt Ion:168 Resp: 494402

Ion Ratio Lower Upper

168 100

99 66.1 59.9 89.9



#3

Chloromethane

Concen: 0.875 ug/l

RT: 2.371 min Scan# 71

Delta R.T. 0.006 min

Lab File: VN081033.D

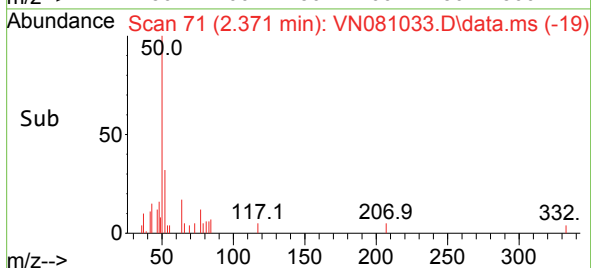
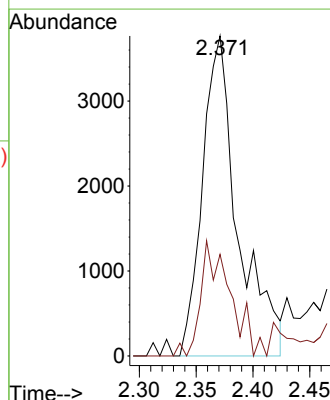
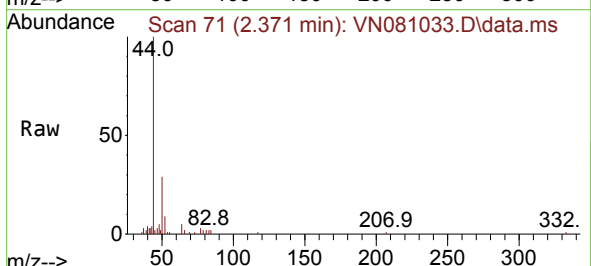
Acq: 14 Feb 2024 18:31

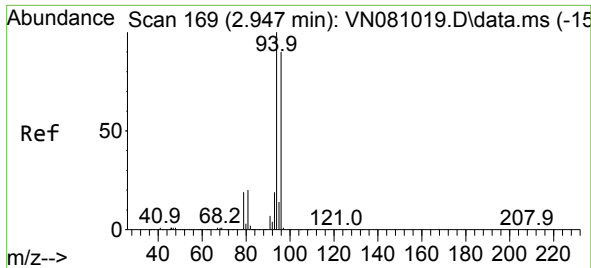
Tgt Ion: 50 Resp: 8186

Ion Ratio Lower Upper

50 100

52 27.8 25.0 37.4

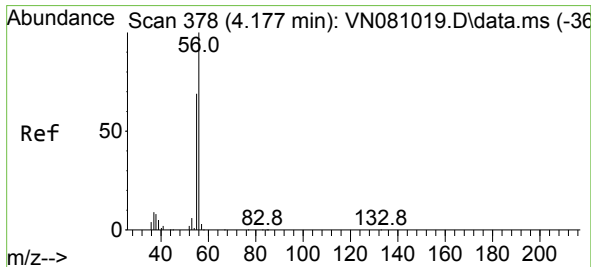
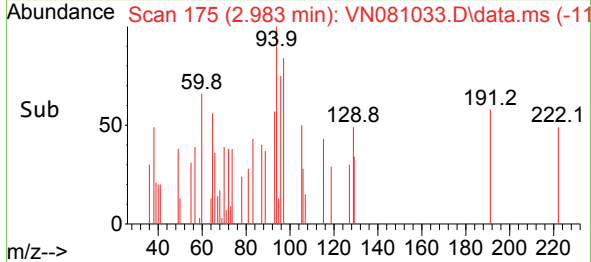
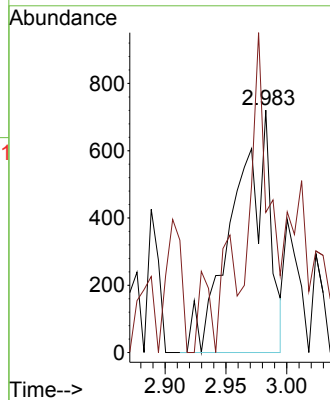
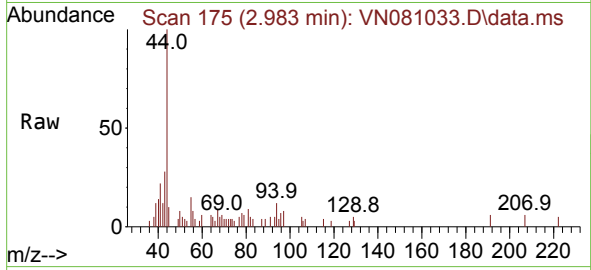




#5
Bromomethane
Concen: 0.445 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN081033.D
Acq: 14 Feb 2024 18:31

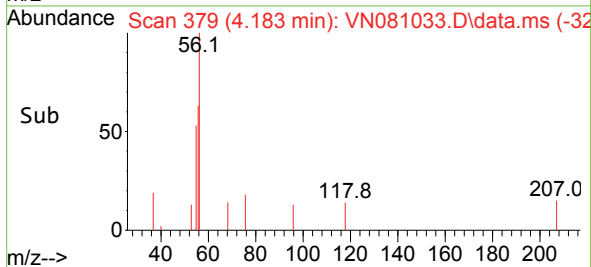
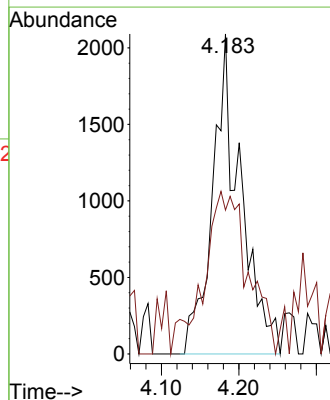
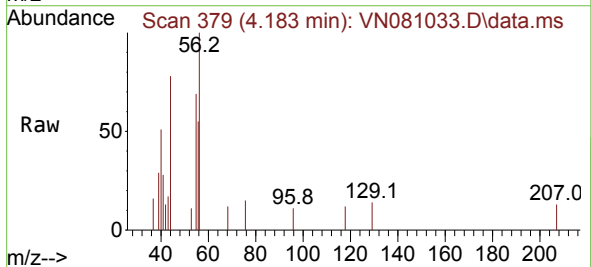
Instrument :
MSVOA_N
ClientSampleId :

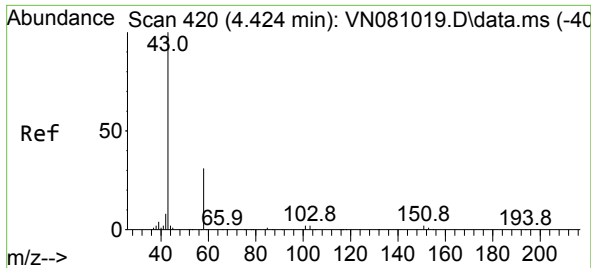
Tgt Ion: 94 Resp: 1495
Ion Ratio Lower Upper
94 100
96 26.1 69.2 103.8#



#13
Acrolein
Concen: Below Cal
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN081033.D
Acq: 14 Feb 2024 18:31

Tgt Ion: 56 Resp: 5231
Ion Ratio Lower Upper
56 100
55 74.7 55.3 82.9

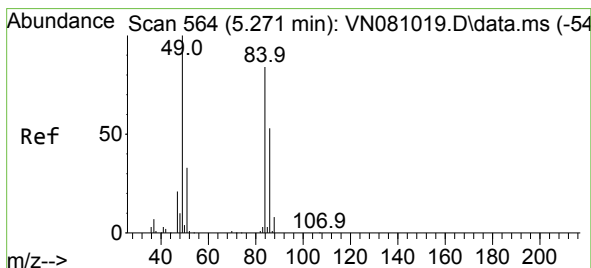
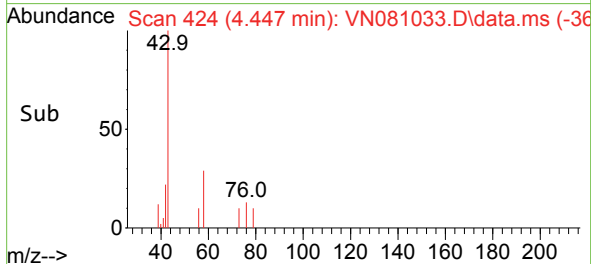
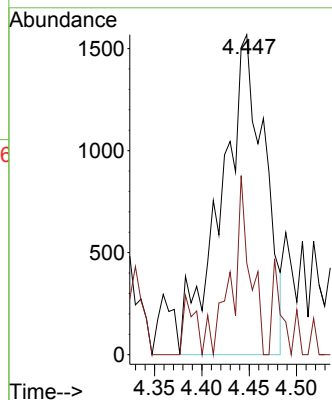
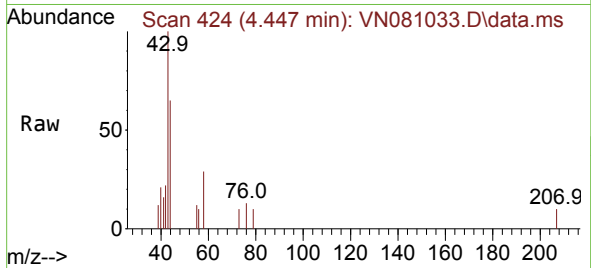




#16
Acetone
Concen: 2.090 ug/l
RT: 4.447 min Scan# 41
Delta R.T. 0.024 min
Lab File: VN081033.D
Acq: 14 Feb 2024 18:31

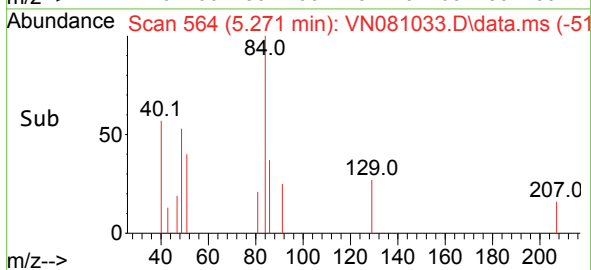
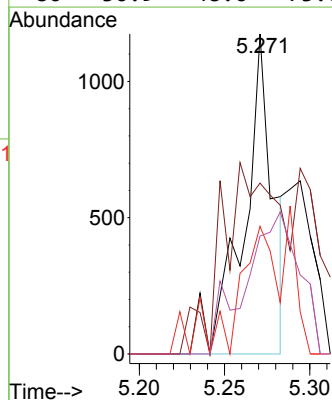
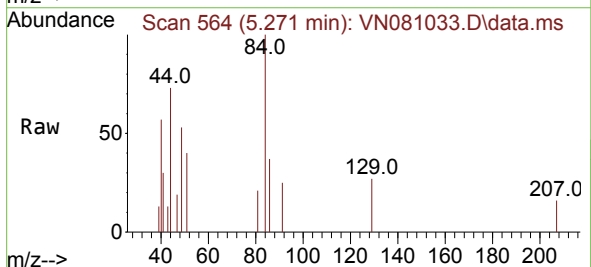
Instrument :
MSVOA_N
ClientSampleId :

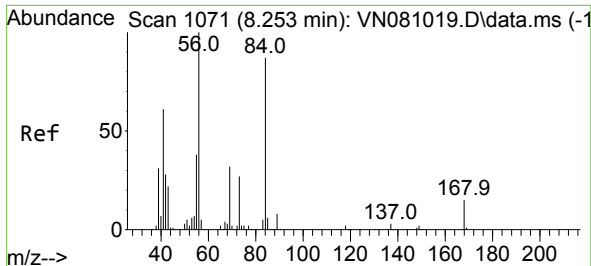
Tgt Ion: 43 Resp: 4976
Ion Ratio Lower Upper
43 100
58 28.7 24.8 37.2



#20
Methylene Chloride
Concen: 0.230 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN081033.D
Acq: 14 Feb 2024 18:31

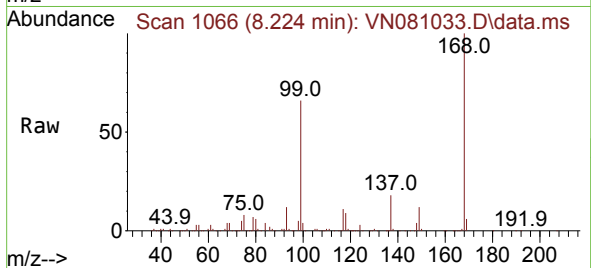
Tgt Ion: 84 Resp: 1425
Ion Ratio Lower Upper
84 100
49 53.4 108.1 162.1#
51 26.7 32.9 49.3#
86 36.9 48.6 73.0#



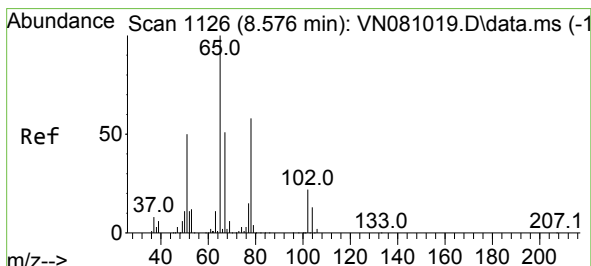
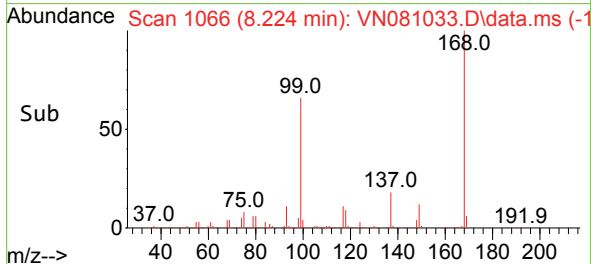
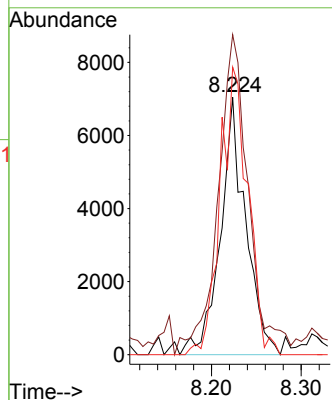


#31
Cyclohexane
Concen: 1.298 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN081033.D
Acq: 14 Feb 2024 18:31

Instrument :
MSVOA_N
ClientSampleId :

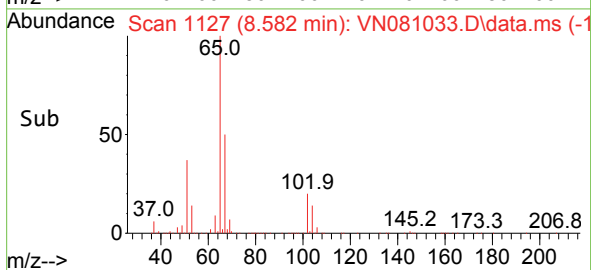
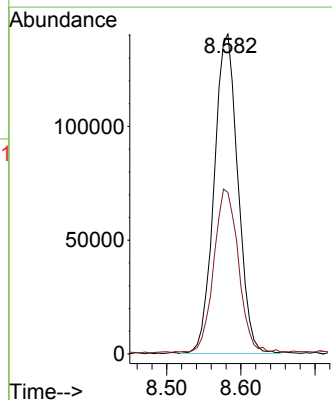
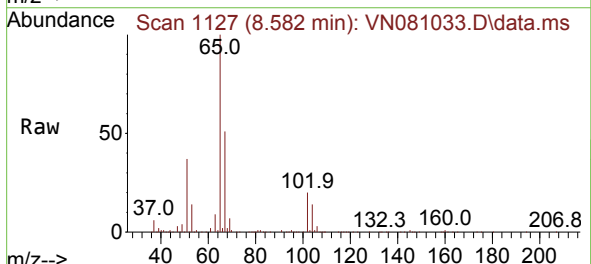


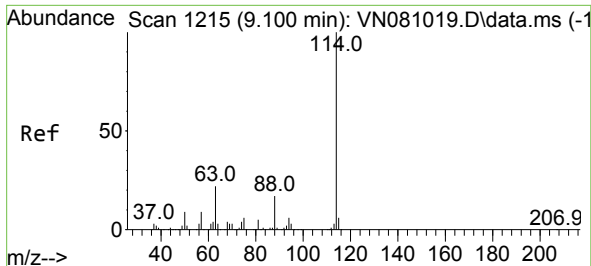
Tgt Ion: 56 Resp: 13716
Ion Ratio Lower Upper
56 100
69 117.7 20.1 30.1#
84 111.7 56.9 85.3#



#33
1,2-Dichloroethane-d4
Concen: 51.339 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN081033.D
Acq: 14 Feb 2024 18:31

Tgt Ion: 65 Resp: 312202
Ion Ratio Lower Upper
65 100
67 52.8 0.0 102.4

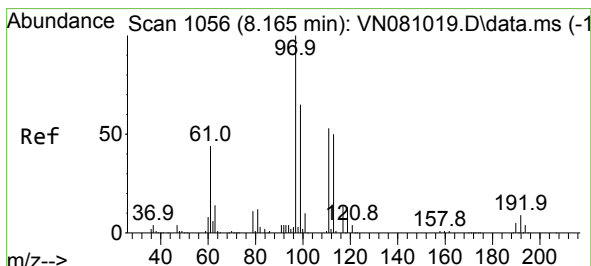
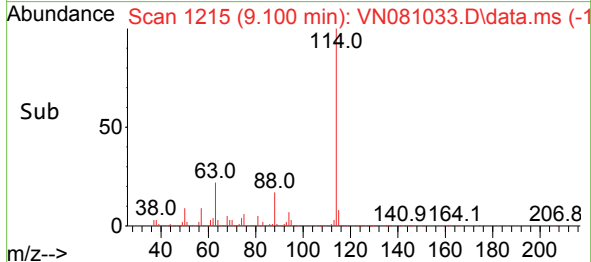
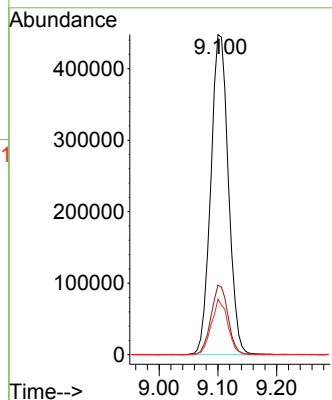
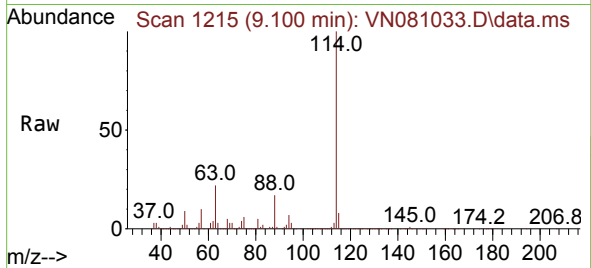




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN081033.D
Acq: 14 Feb 2024 18:31

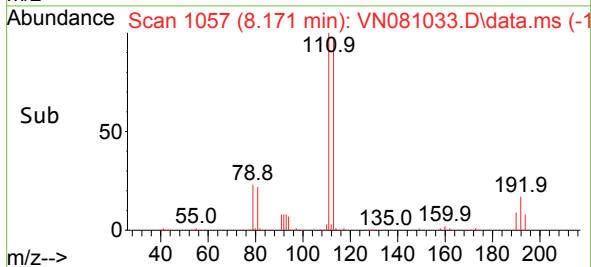
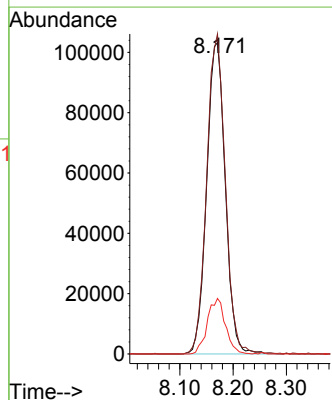
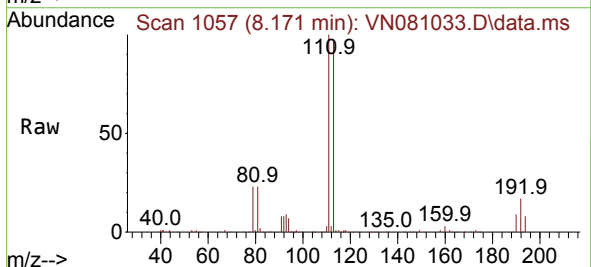
Instrument :
MSVOA_N
ClientSampleId :

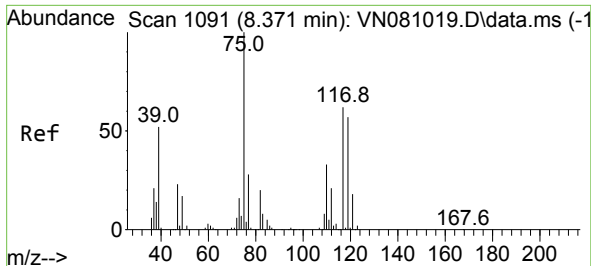
Tgt Ion:114 Resp: 929780
Ion Ratio Lower Upper
114 100
63 21.7 0.0 48.0
88 17.4 0.0 34.8



#35
Dibromofluoromethane
Concen: 46.931 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN081033.D
Acq: 14 Feb 2024 18:31

Tgt Ion:113 Resp: 250186
Ion Ratio Lower Upper
113 100
111 102.9 82.2 123.4
192 17.4 12.5 18.7





#36

1,1-Dichloropropene

Concen: 4.700 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN081033.D

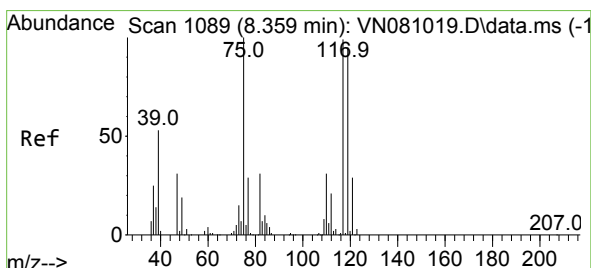
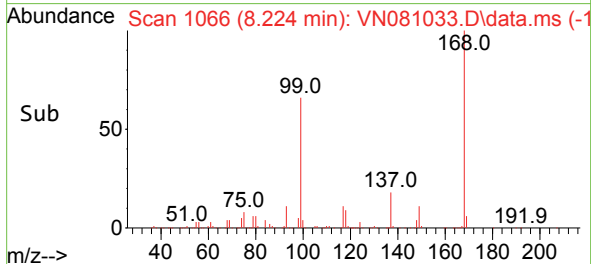
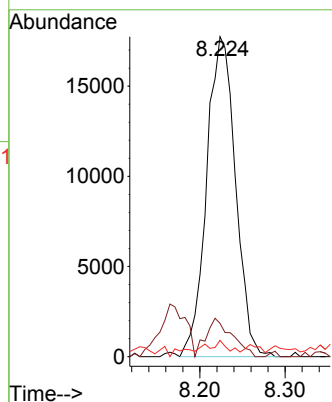
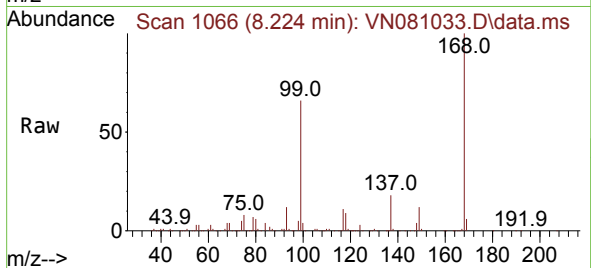
Acq: 14 Feb 2024 18:31

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	75	Resp:	41806
Ion Ratio	Lower	Upper	
75	100		
110	10.7	16.0	48.0#
77	1.3	25.8	38.6#



#38

Carbon Tetrachloride

Concen: 0.286 ug/l

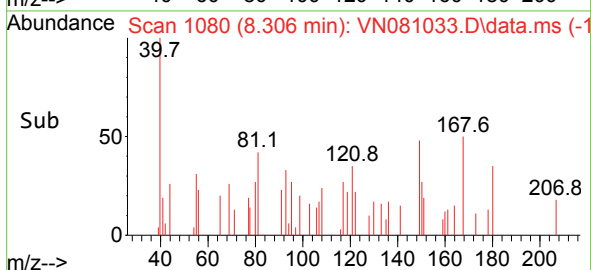
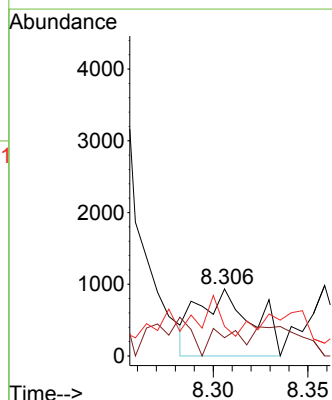
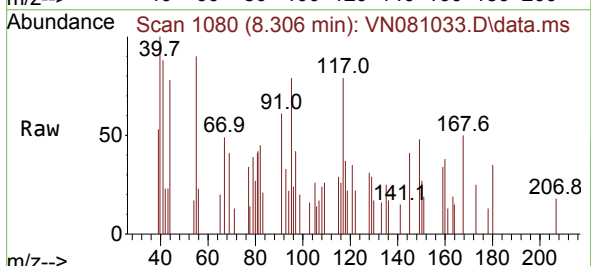
RT: 8.306 min Scan# 1080

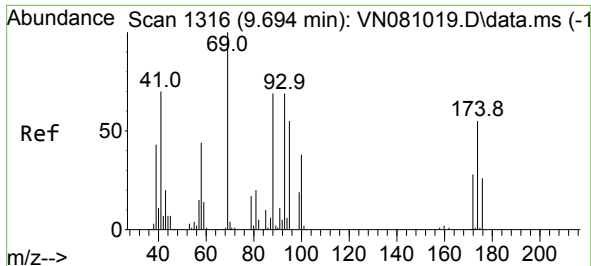
Delta R.T. -0.053 min

Lab File: VN081033.D

Acq: 14 Feb 2024 18:31

Tgt Ion:	117	Resp:	1860
Ion Ratio	Lower	Upper	
117	100		
119	0.0	73.4	110.2#
121	7.5	24.4	36.6#





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.700 min Scan# 11

Delta R.T. 0.006 min

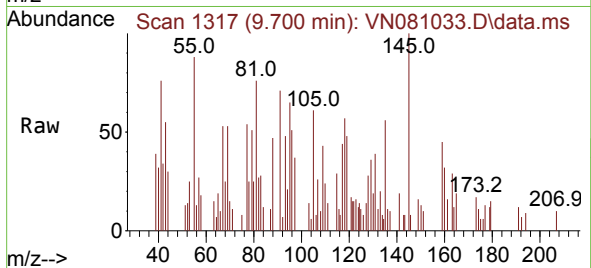
Lab File: VN081033.D

Acq: 14 Feb 2024 18:31

Instrument :

MSVOA_N

ClientSampleId :



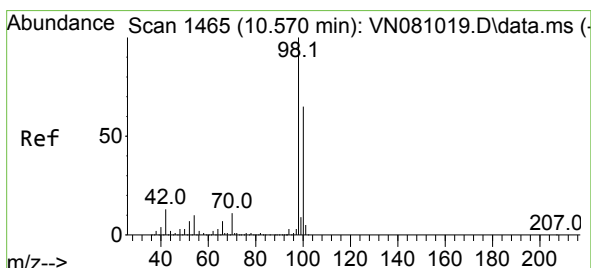
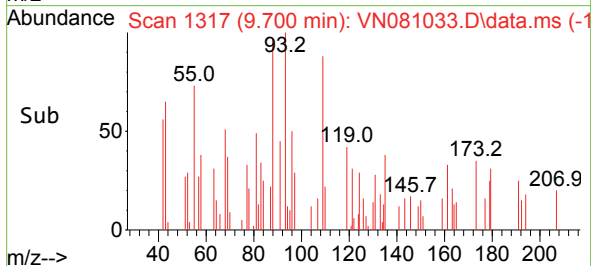
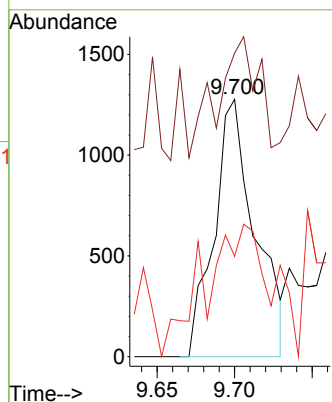
Tgt Ion: 88 Resp: 2343

Ion Ratio Lower Upper

88 100

43 37.0 30.1 45.1

58 64.2 63.9 95.9



#50

Toluene-d8

Concen: 43.640 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN081033.D

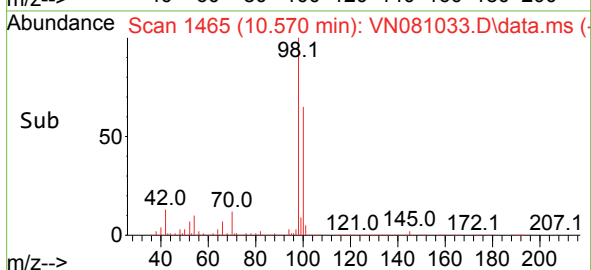
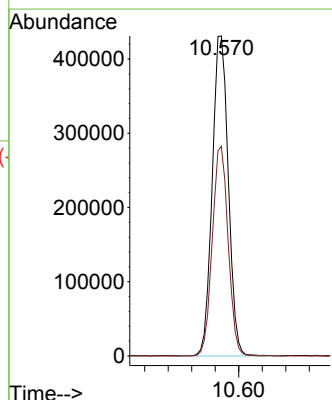
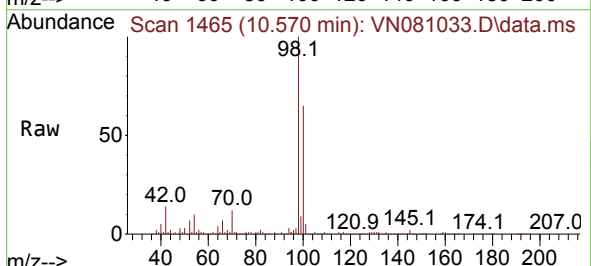
Acq: 14 Feb 2024 18:31

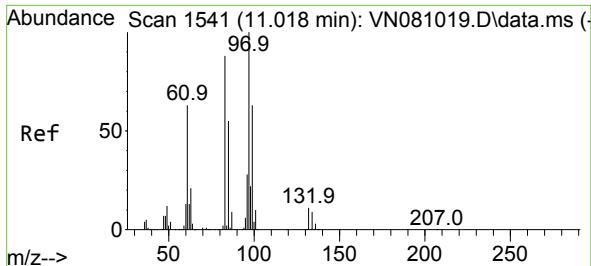
Tgt Ion: 98 Resp: 820469

Ion Ratio Lower Upper

98 100

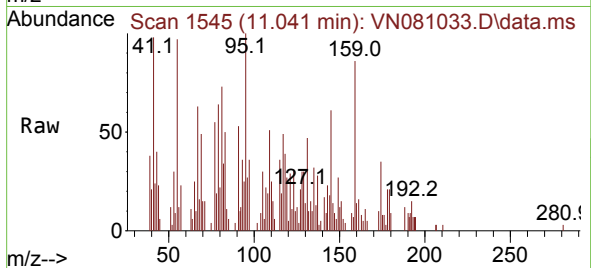
100 64.4 51.4 77.0



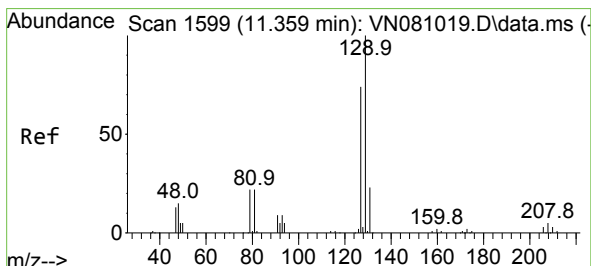
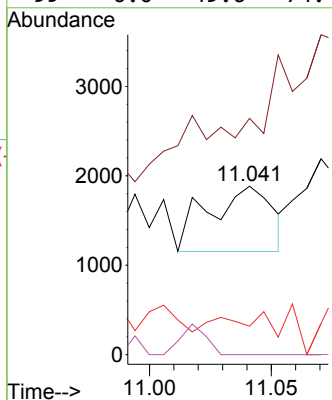
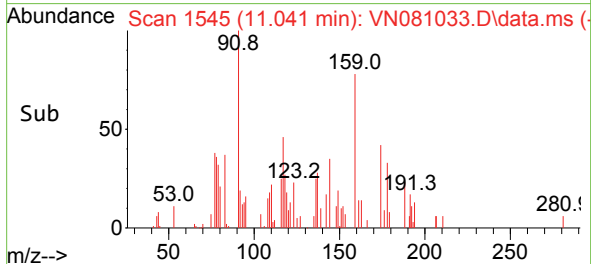


#55
1,1,2-Trichloroethane
Concen: 0.215 ug/l
RT: 11.041 min Scan# 1545
Delta R.T. 0.024 min
Lab File: VN081033.D
Acq: 14 Feb 2024 18:31

Instrument :
MSVOA_N
ClientSampleId :

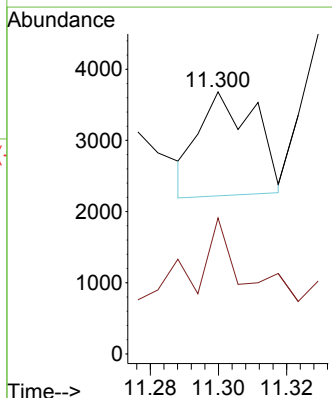
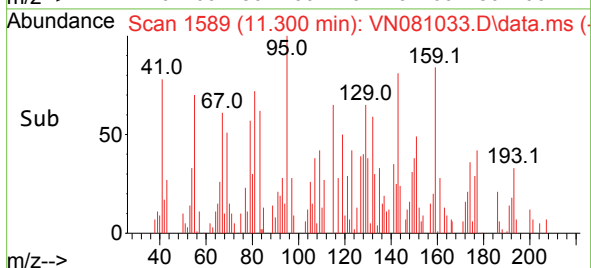
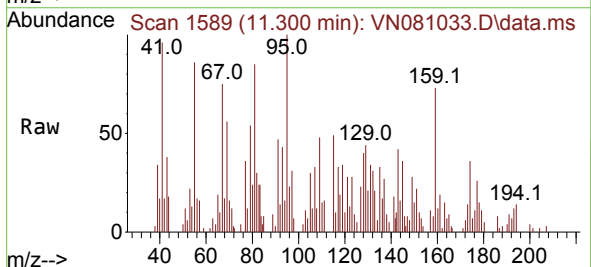


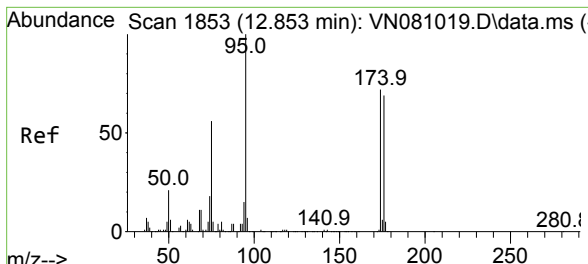
Tgt Ion: 97 Resp: 1329
Ion Ratio Lower Upper
97 100
83 42.1 72.9 109.3#
85 17.0 50.2 75.2#
99 0.0 49.6 74.4#



#60
Dibromochloromethane
Concen: 0.282 ug/l
RT: 11.300 min Scan# 1589
Delta R.T. -0.059 min
Lab File: VN081033.D
Acq: 14 Feb 2024 18:31

Tgt Ion: 129 Resp: 1657
Ion Ratio Lower Upper
129 100
127 62.4 39.4 118.2

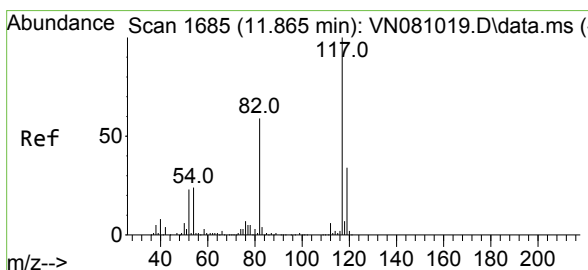
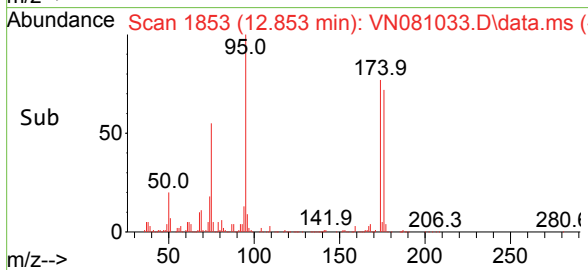
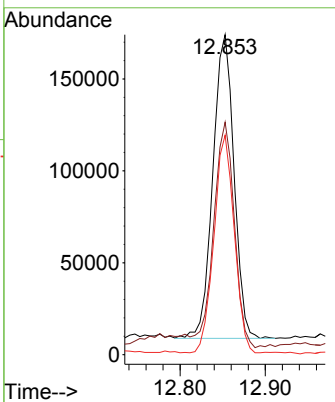
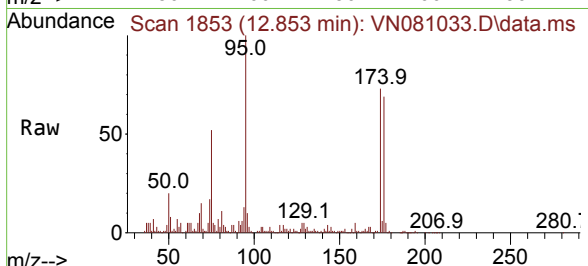




#62
 4-Bromofluorobenzene
 Concen: 44.544 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.000 min
 Lab File: VN081033.D
 Acq: 14 Feb 2024 18:31

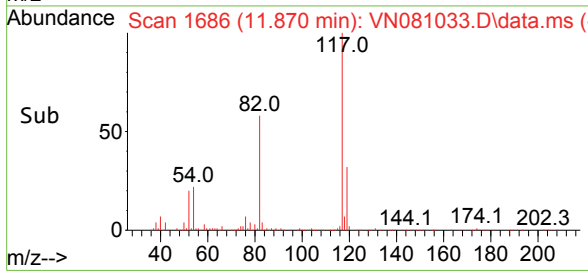
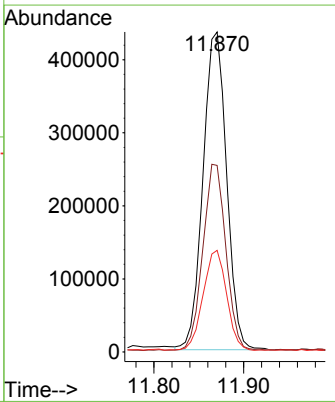
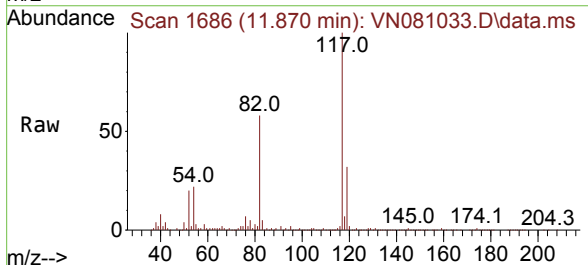
Instrument :
 MSVOA_N
 ClientSampleId :

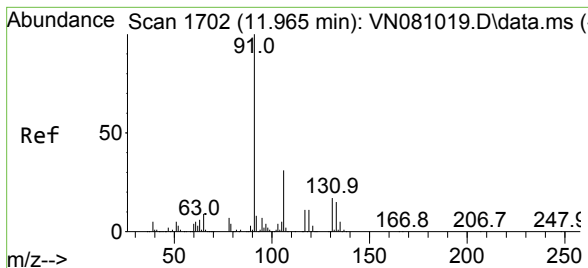
Tgt Ion:	95	Resp:	284821
Ion	Ratio	Lower	Upper
95	100		
174	72.8	0.0	120.4
176	68.7	0.0	121.0



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.870 min Scan# 1686
 Delta R.T. 0.006 min
 Lab File: VN081033.D
 Acq: 14 Feb 2024 18:31

Tgt Ion:	117	Resp:	793421
Ion	Ratio	Lower	Upper
117	100		
82	58.1	52.7	79.1
119	31.4	25.3	37.9

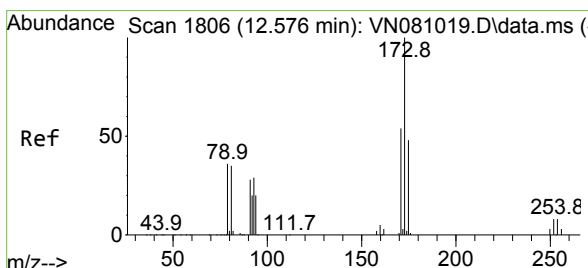
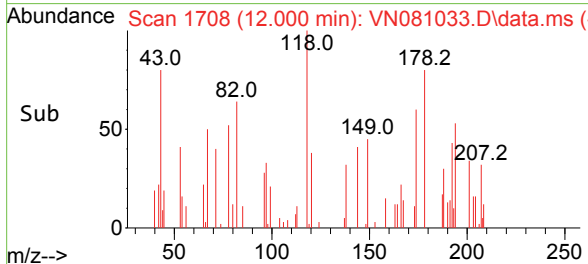
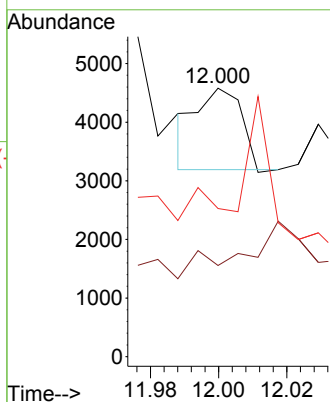
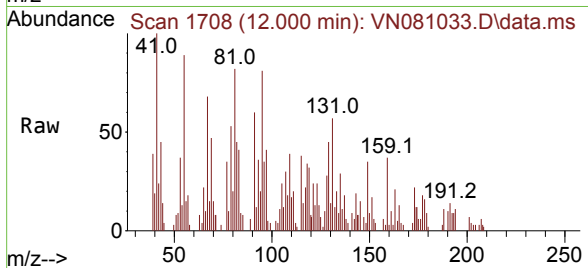




#66
1,1,1,2-Tetrachloroethane
Concen: 0.216 ug/l
RT: 12.000 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN081033.D
Acq: 14 Feb 2024 18:31

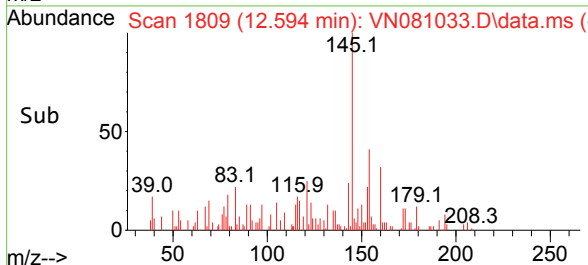
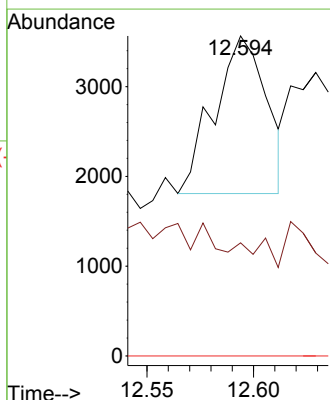
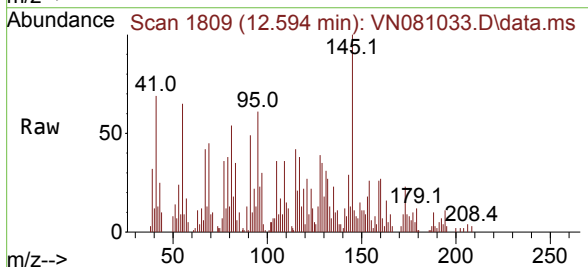
Instrument :
MSVOA_N
ClientSampleId :

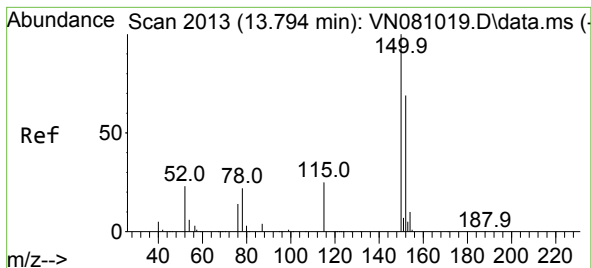
Tgt Ion:131 Resp: 1238
Ion Ratio Lower Upper
131 100
133 67.9 46.8 140.3
119 0.0 34.6 103.9#



#71
Bromoform
Concen: 1.026 ug/l
RT: 12.594 min Scan# 1809
Delta R.T. 0.018 min
Lab File: VN081033.D
Acq: 14 Feb 2024 18:31

Tgt Ion:173 Resp: 2990
Ion Ratio Lower Upper
173 100
175 0.0 23.1 69.2#
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: VN081033.D

Acq: 14 Feb 2024 18:31

Instrument :

MSVOA_N

ClientSampleId :

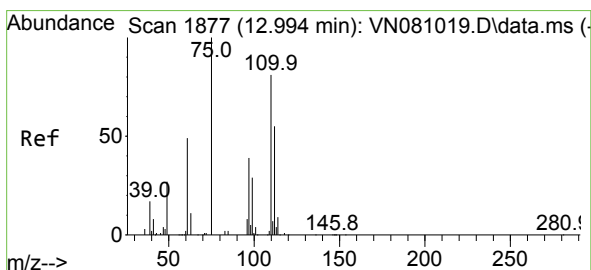
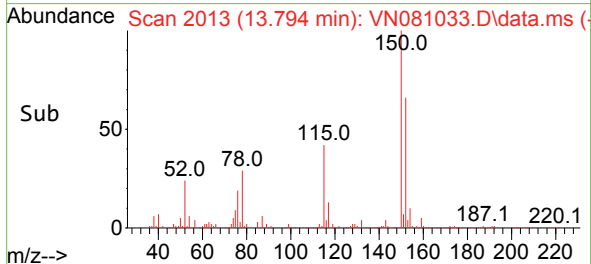
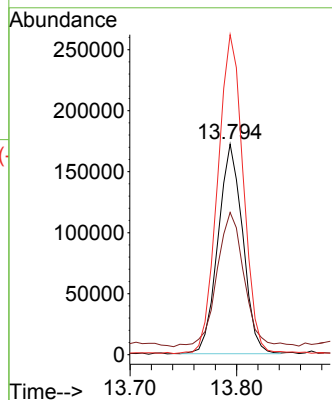
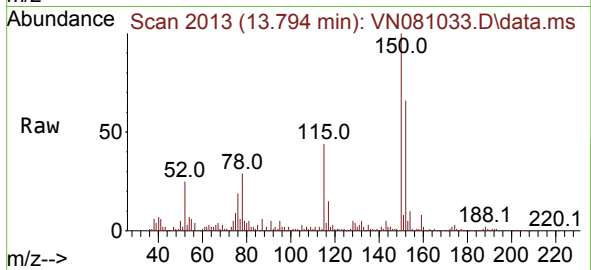
Tgt Ion:152 Resp: 276123

Ion Ratio Lower Upper

152 100

115 70.7 32.3 96.8

150 158.9 0.0 339.8



#76

1,2,3-Trichloropropane

Concen: 25.445 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN081033.D

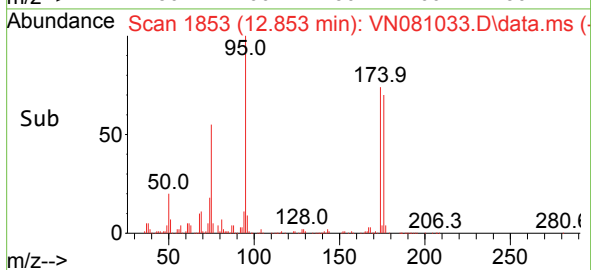
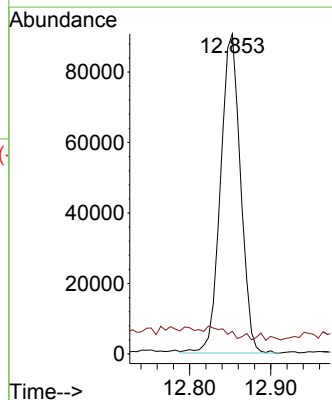
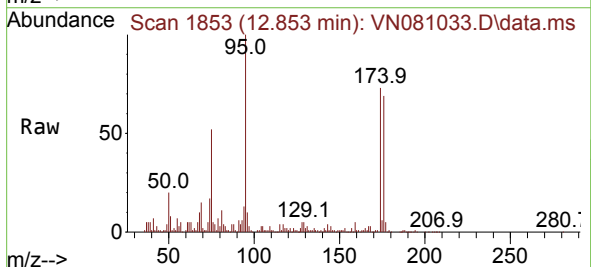
Acq: 14 Feb 2024 18:31

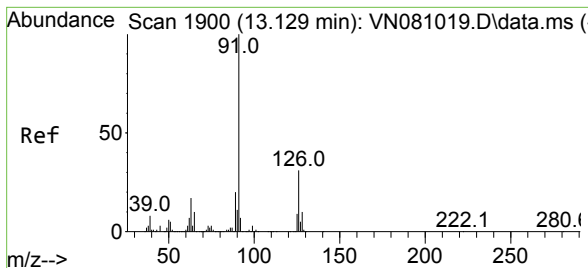
Tgt Ion: 75 Resp: 155248

Ion Ratio Lower Upper

75 100

77 0.0 91.0 272.8#

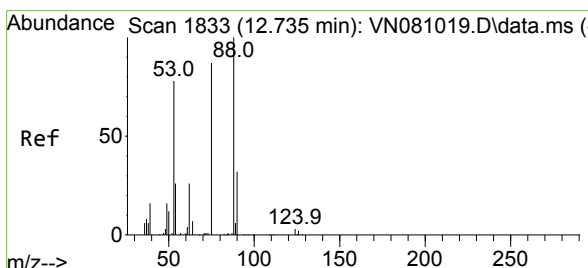
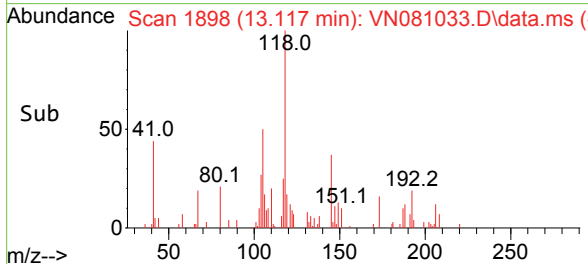
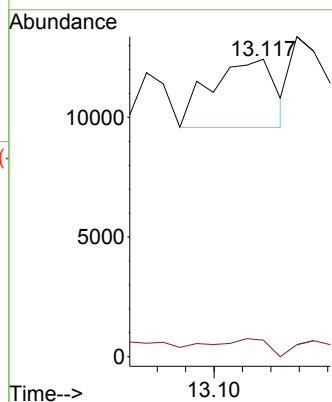
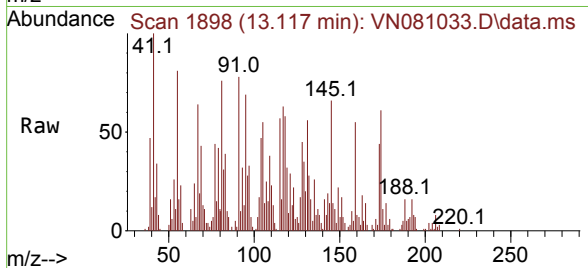




#79
2-Chlorotoluene
Concen: 0.242 ug/l
RT: 13.117 min Scan# 1898
Delta R.T. -0.012 min
Lab File: VN081033.D
Acq: 14 Feb 2024 18:31

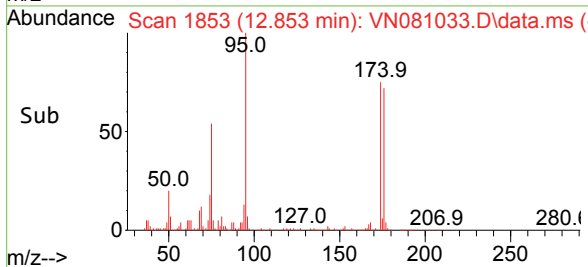
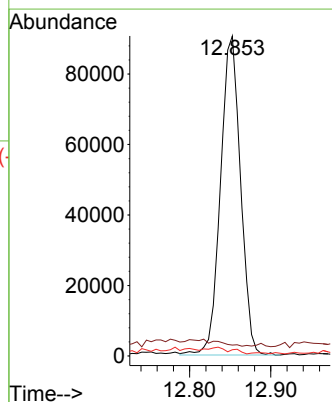
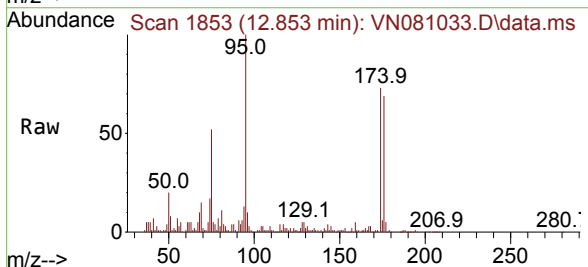
Instrument :
MSVOA_N
ClientSampleId :

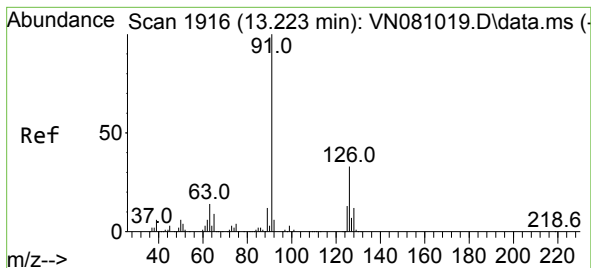
Tgt Ion: 91 Resp: 4441
Ion Ratio Lower Upper
91 100
126 15.9 14.8 44.4



#81
trans-1,4-Dichloro-2-butene
Concen: 59.233 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN081033.D
Acq: 14 Feb 2024 18:31

Tgt Ion: 75 Resp: 155248
Ion Ratio Lower Upper
75 100
53 0.0 71.4 107.2#
89 1.6 33.4 50.0#

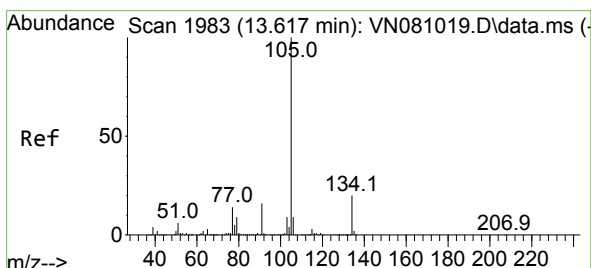
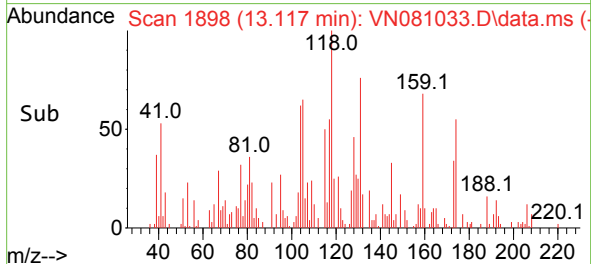
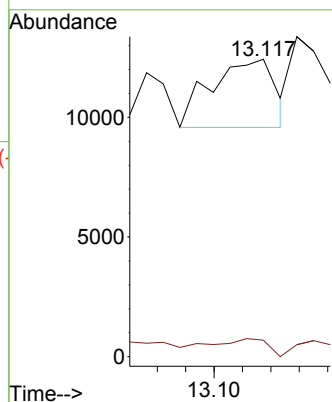
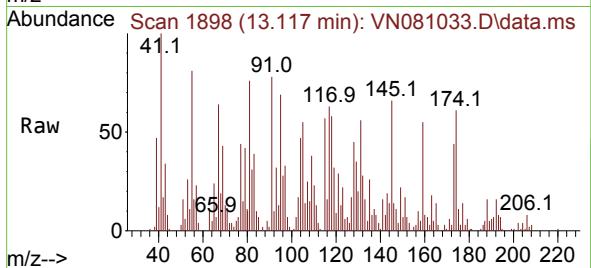




#82
4-Chlorotoluene
Concen: 0.250 ug/l
RT: 13.117 min Scan# 11
Delta R.T. -0.106 min
Lab File: VN081033.D
Acq: 14 Feb 2024 18:31

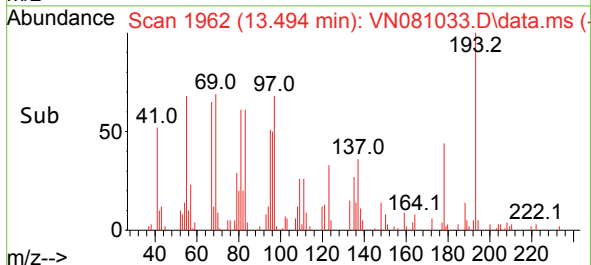
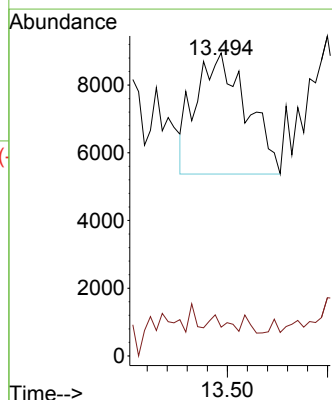
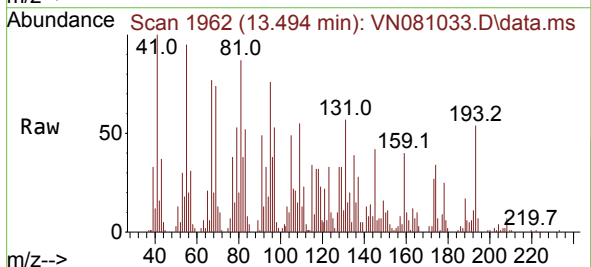
Instrument :
MSVOA_N
ClientSampleId :

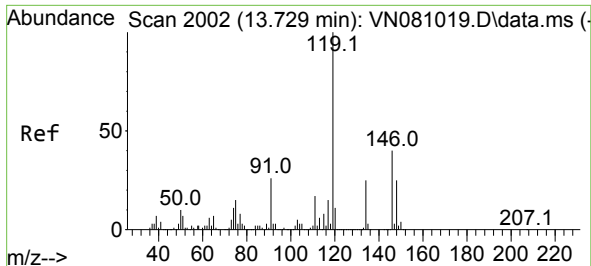
Tgt Ion: 91 Resp: 4441
Ion Ratio Lower Upper
91 100
126 15.9 15.3 45.9



#85
sec-Butylbenzene
Concen: 0.494 ug/l
RT: 13.494 min Scan# 1962
Delta R.T. -0.124 min
Lab File: VN081033.D
Acq: 14 Feb 2024 18:31

Tgt Ion: 105 Resp: 12565
Ion Ratio Lower Upper
105 100
134 11.0 8.6 25.8

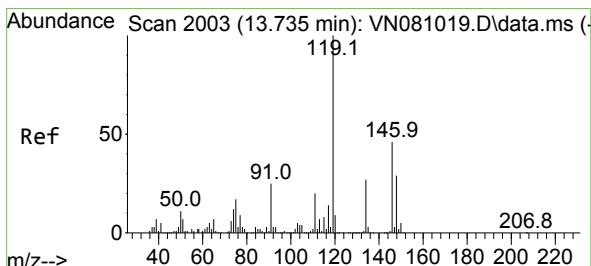
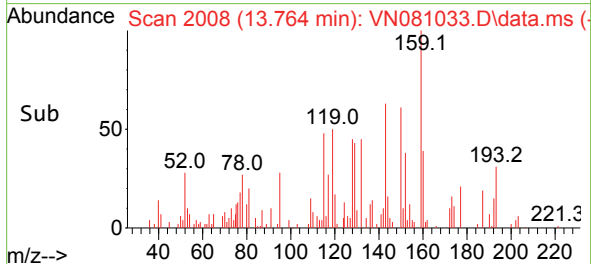
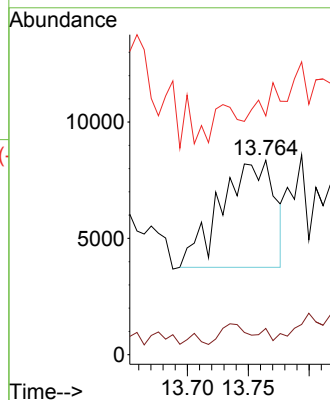
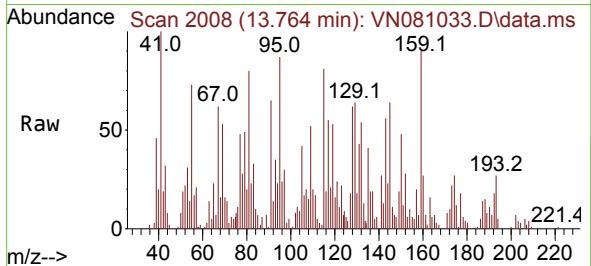




#86
p-Isopropyltoluene
Concen: 0.684 ug/l
RT: 13.764 min Scan# 2008
Delta R.T. 0.035 min
Lab File: VN081033.D
Acq: 14 Feb 2024 18:31

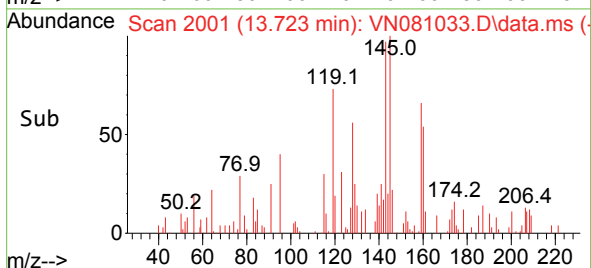
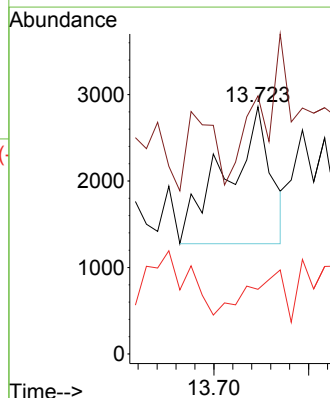
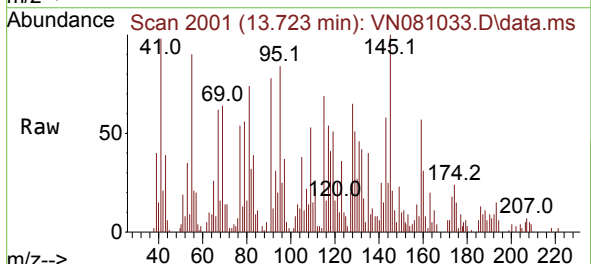
Instrument :
MSVOA_N
ClientSampleId :

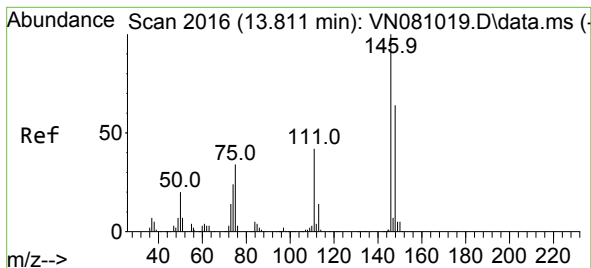
Tgt Ion:119 Resp: 13977
Ion Ratio Lower Upper
119 100
134 0.0 12.4 37.2#
91 0.0 13.5 40.4#



#87
1,3-Dichlorobenzene
Concen: 0.271 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.012 min
Lab File: VN081033.D
Acq: 14 Feb 2024 18:31

Tgt Ion:146 Resp: 2604
Ion Ratio Lower Upper
146 100
111 91.8 23.9 71.7#
148 25.7 32.6 97.7#





#88

1,4-Dichlorobenzene

Concen: 0.307 ug/l

RT: 13.800 min Scan# 2016

Delta R.T. -0.012 min

Lab File: VN081033.D

Acq: 14 Feb 2024 18:31

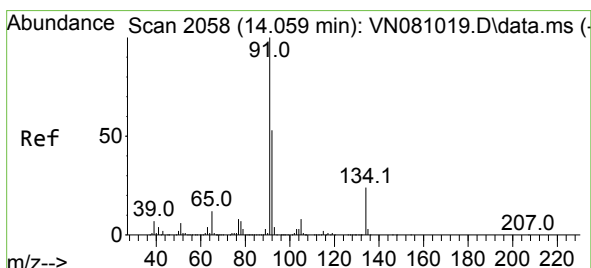
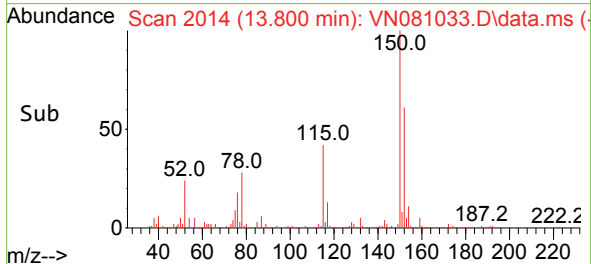
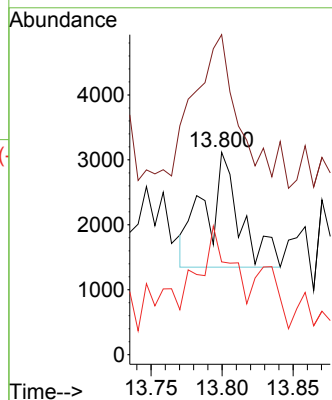
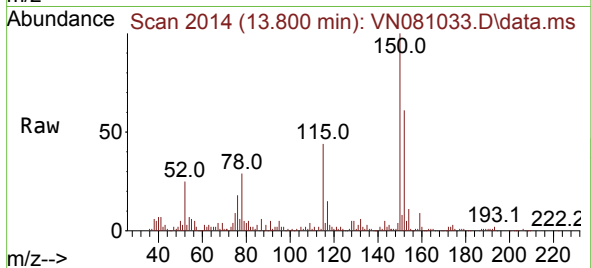
Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:146 Resp: 3044

Ion	Ratio	Lower	Upper
146	100		
111	203.5	22.6	67.7#
148	122.7	31.9	95.5#



#89

n-Butylbenzene

Concen: 0.319 ug/l

RT: 14.000 min Scan# 2048

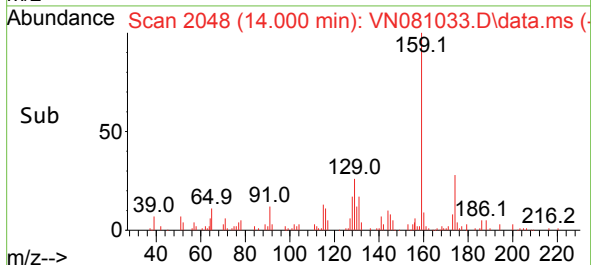
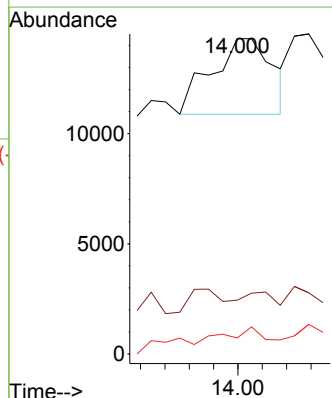
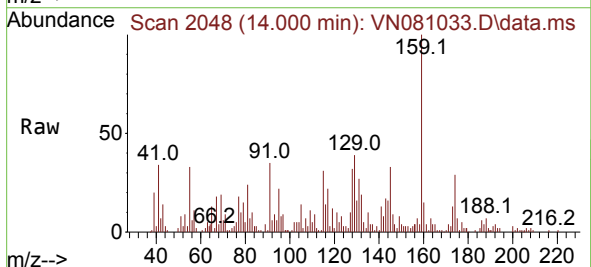
Delta R.T. -0.059 min

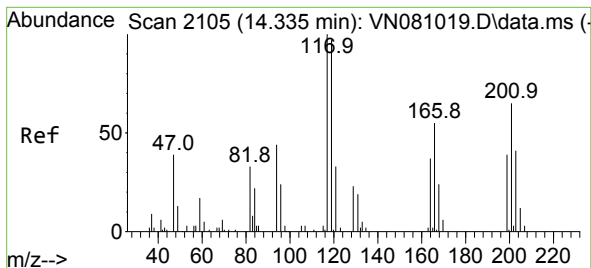
Lab File: VN081033.D

Acq: 14 Feb 2024 18:31

Tgt Ion: 91 Resp: 5975

Ion	Ratio	Lower	Upper
91	100		
92	16.7	26.7	80.1#
134	42.8	10.8	32.4#





#90

Hexachloroethane

Concen: Below Cal

RT: 14.282 min Scan# 2096

Delta R.T. -0.053 min

Lab File: VN081033.D

Acq: 14 Feb 2024 18:31

Instrument :

MSVOA_N

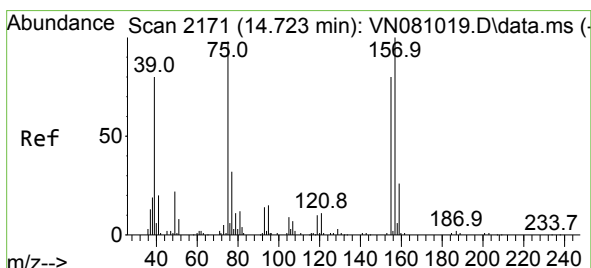
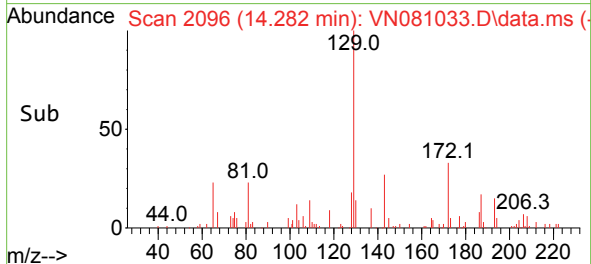
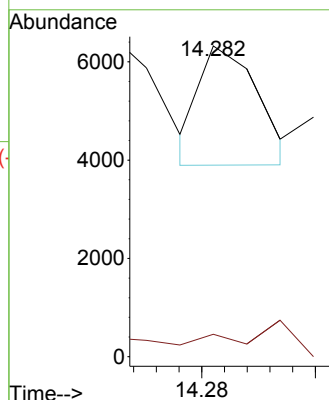
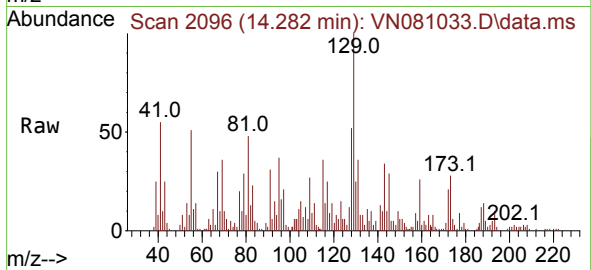
ClientSampleId :

Tgt Ion:117 Resp: 1733

Ion Ratio Lower Upper

117 100

201 38.9 30.0 90.0



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.717 min Scan# 2170

Delta R.T. -0.006 min

Lab File: VN081033.D

Acq: 14 Feb 2024 18:31

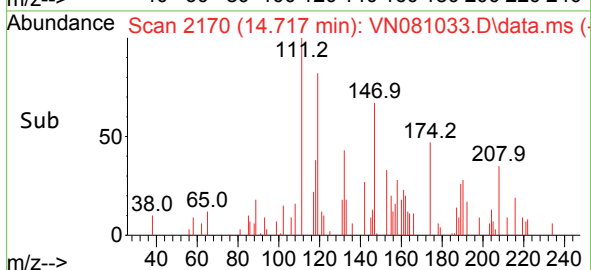
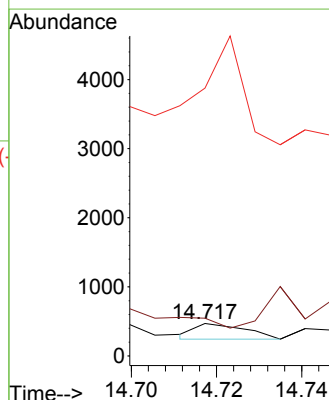
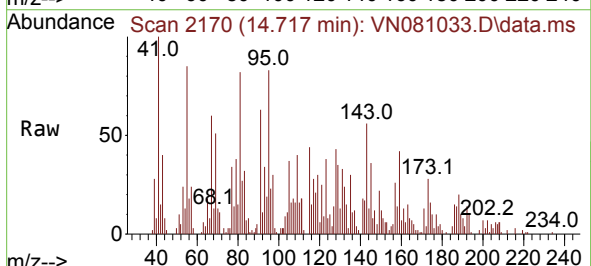
Tgt Ion: 75 Resp: 186

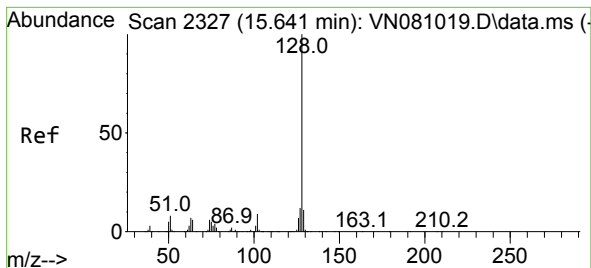
Ion Ratio Lower Upper

75 100

155 159.1 31.8 95.4#

157 2637.6 41.1 123.4#





#95

Naphthalene

Concen: 0.315 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN081033.D

Acq: 14 Feb 2024 18:31

Instrument :

MSVOA_N

ClientSampleId :

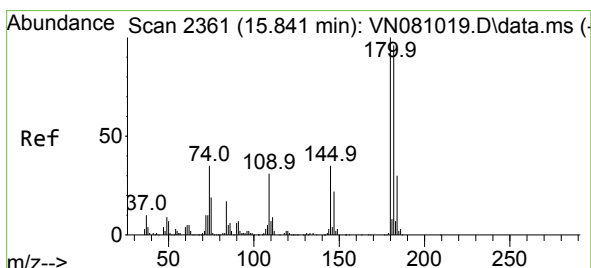
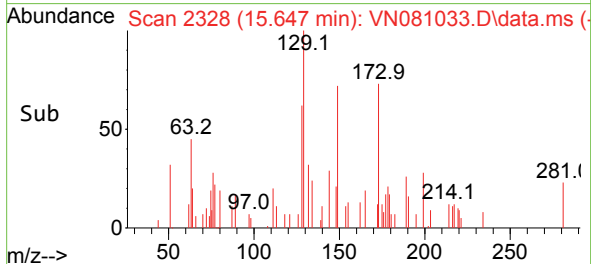
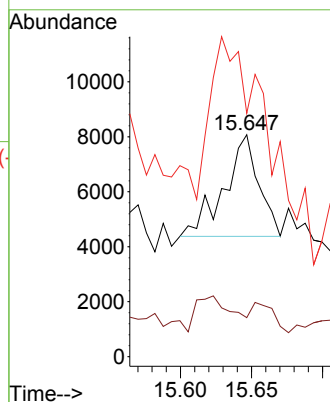
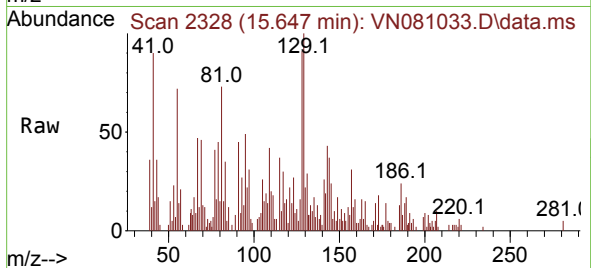
Tgt Ion:128 Resp: 6248

Ion Ratio Lower Upper

128 100

127 18.1 10.0 15.0#

129 0.0 8.7 13.1#



#96

1,2,3-Trichlorobenzene

Concen: 0.302 ug/l

RT: 15.870 min Scan# 2366

Delta R.T. 0.029 min

Lab File: VN081033.D

Acq: 14 Feb 2024 18:31

Tgt Ion:180 Resp: 1652

Ion Ratio Lower Upper

180 100

182 16.6 46.5 139.3#

145 105.1 17.8 53.4#

