

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051624\
 Data File : VN082162.D
 Acq On : 16 May 2024 15:19
 Operator : JC\MD
 Sample : P2509-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 240508023-02

Quant Time: May 17 05:03:03 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051524W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 04:08:43 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	180267	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	317523	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	295140	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	122249	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	149466	52.509	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	105.020%
35) Dibromofluoromethane	8.165	113	104930	53.721	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	107.440%
50) Toluene-d8	10.571	98	403168	53.837	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	107.680%
62) 4-Bromofluorobenzene	12.847	95	132872	49.711	ug/l	0.00
Spiked Amount	50.000	Range	64 - 133	Recovery	=	99.420%

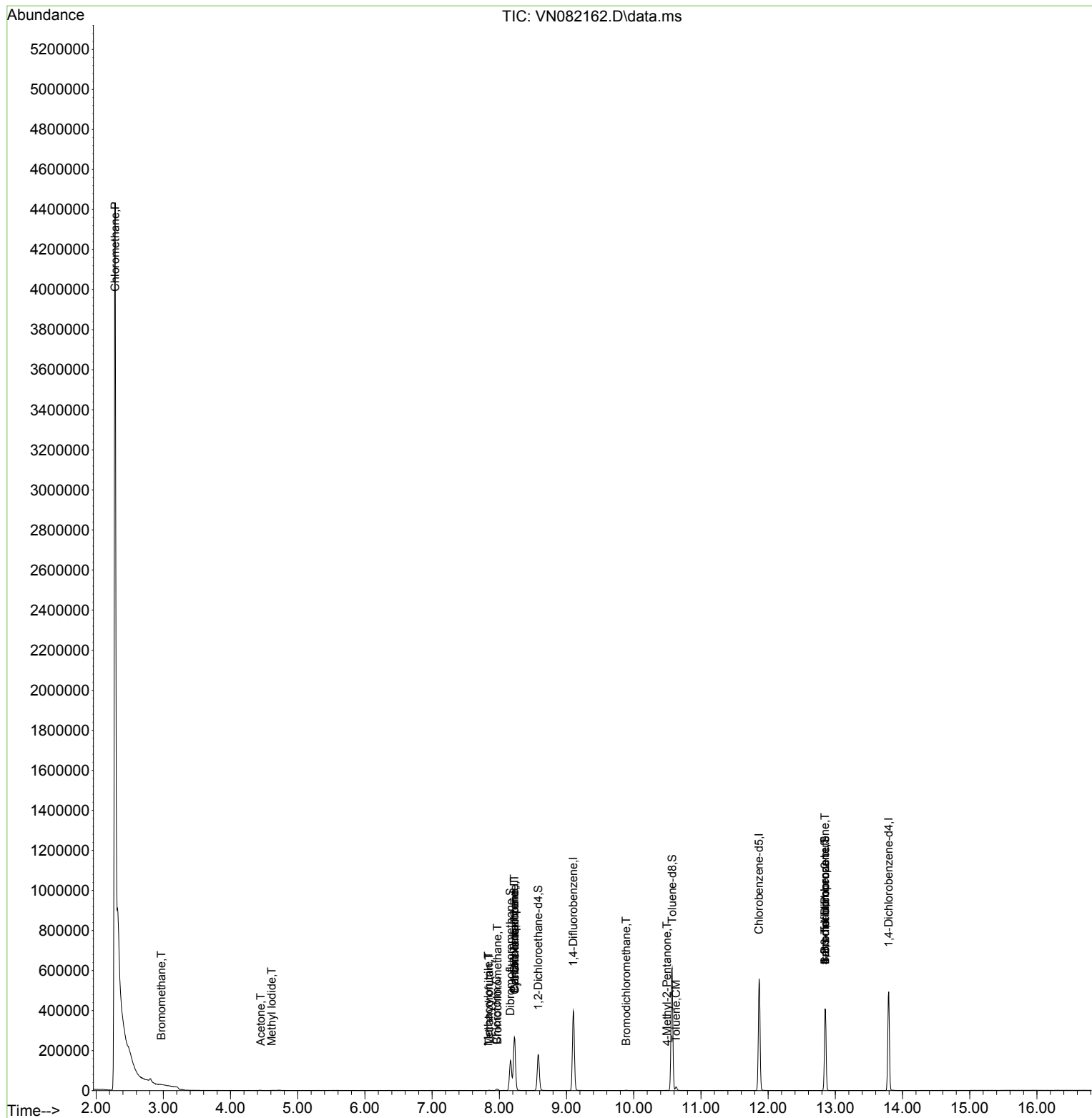
Target Compounds					Qvalue	
3) Chloromethane	2.283	50	179128	60.815	ug/l	# 43
5) Bromomethane	2.971	94	1579	0.992	ug/l	# 72
10) Methyl Iodide	4.612	142	887	0.417	ug/l	# 40
16) Acetone	4.448	43	2786	2.386	ug/l	# 85
28) Bromochloromethane	7.971	49	733	0.347	ug/l	# 10
29) Tetrahydrofuran	7.847	42	1008	0.887	ug/l	# 45
30) Chloroform	7.959	83	7195	1.661	ug/l	# 84
31) Cyclohexane	8.230	56	5685	1.250	ug/l	# 35
36) 1,1-Dichloropropene	8.224	75	17229	5.259	ug/l	# 51
38) Carbon Tetrachloride	8.224	117	19471	5.863	ug/l	# 16
41) Methacrylonitrile	7.836	41	560	0.260	ug/l	# 37
47) Bromodichloromethane	9.888	83	1349	0.386	ug/l	# 85
51) 4-Methyl-2-Pentanone	10.494	43	1103	0.299	ug/l	# 34
52) Toluene	10.630	92	6802	1.160	ug/l	# 94
71) Bromoform	12.847	173	596	0.386	ug/l	# 28
76) 1,2,3-Trichloropropane	12.847	75	78568	30.535	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.847	75	78568	71.420	ug/l	# 12

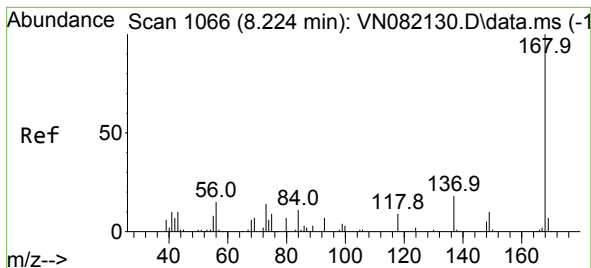
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN082162.D

Acq: 16 May 2024 15:19

Instrument :

MSVOA_N

ClientSampleId :

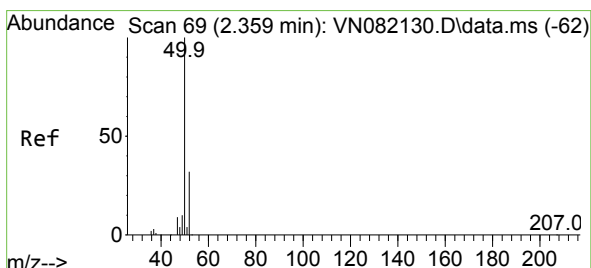
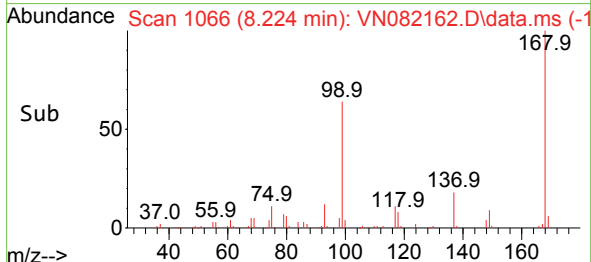
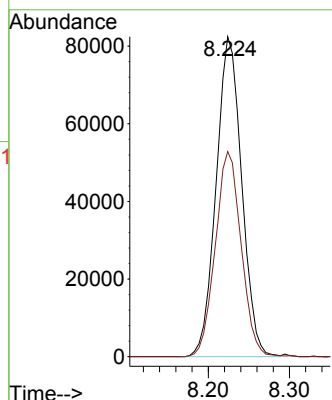
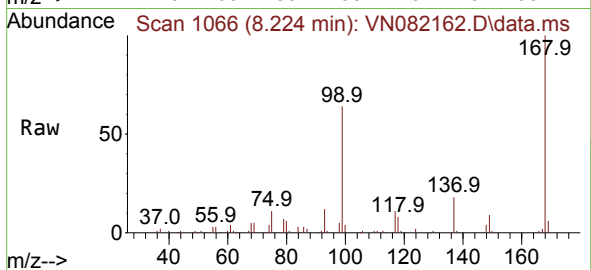
240508023-02

Tgt Ion:168 Resp: 180267

Ion Ratio Lower Upper

168 100

99 64.1 48.2 72.4



#3

Chloromethane

Concen: 60.815 ug/l

RT: 2.283 min Scan# 56

Delta R.T. -0.076 min

Lab File: VN082162.D

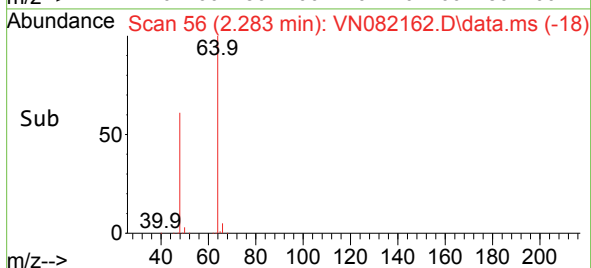
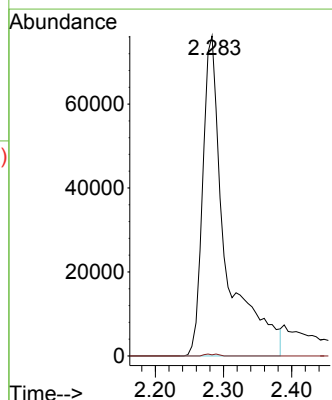
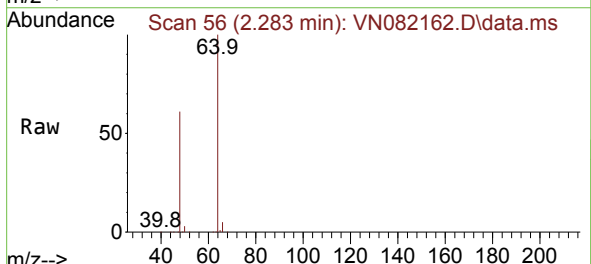
Acq: 16 May 2024 15:19

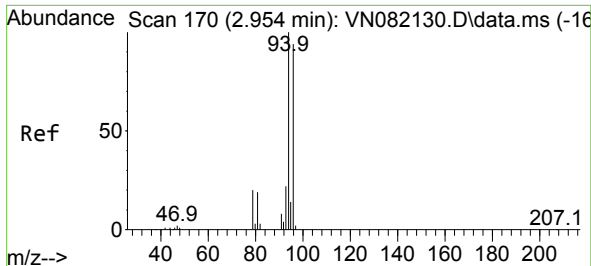
Tgt Ion: 50 Resp: 179128

Ion Ratio Lower Upper

50 100

52 0.4 25.5 38.3#

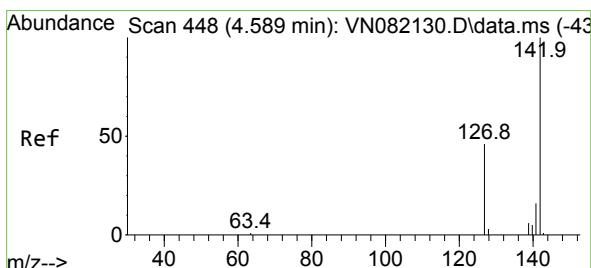
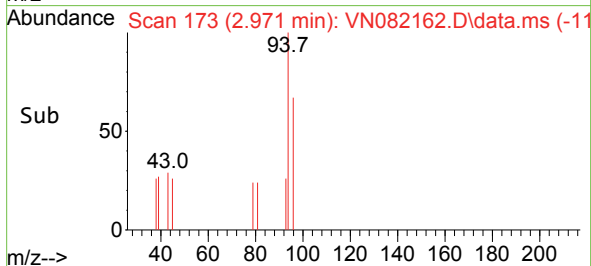
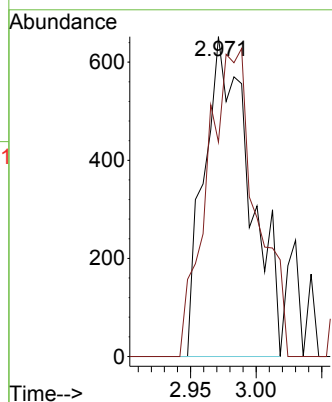
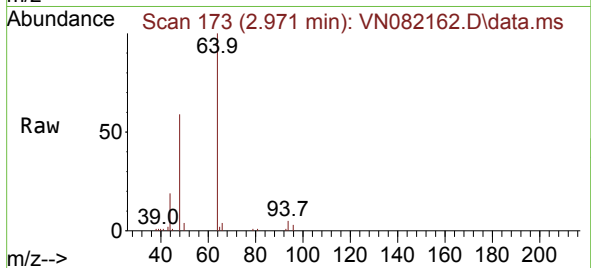




#5
Bromomethane
Concen: 0.992 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN082162.D
Acq: 16 May 2024 15:19

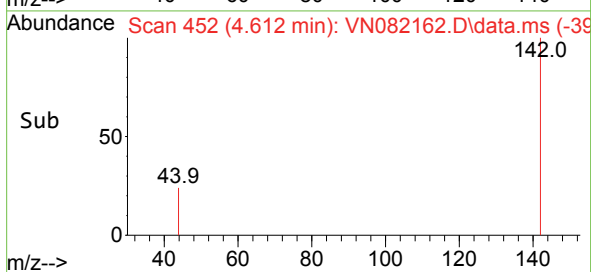
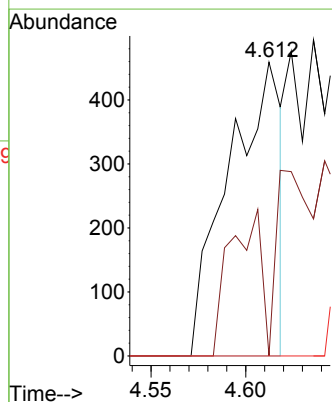
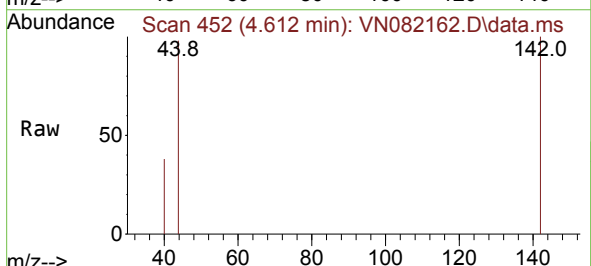
Instrument :
MSVOA_N
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240508023-02

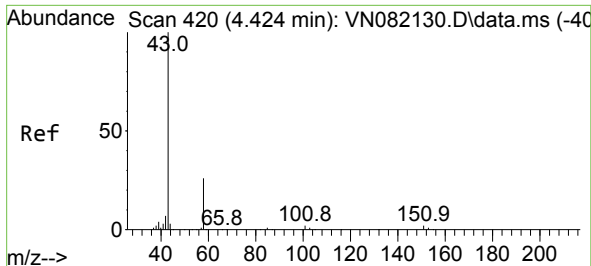
Tgt Ion: 94 Resp: 1579
Ion Ratio Lower Upper
94 100
96 67.0 74.8 112.2#



#10
Methyl Iodide
Concen: 0.417 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.024 min
Lab File: VN082162.D
Acq: 16 May 2024 15:19

Tgt Ion:142 Resp: 887
Ion Ratio Lower Upper
142 100
127 0.0 35.8 53.6#
141 0.0 11.4 17.2#

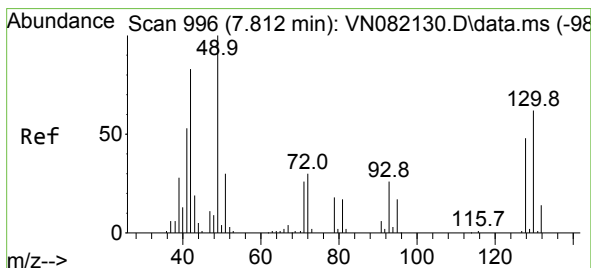
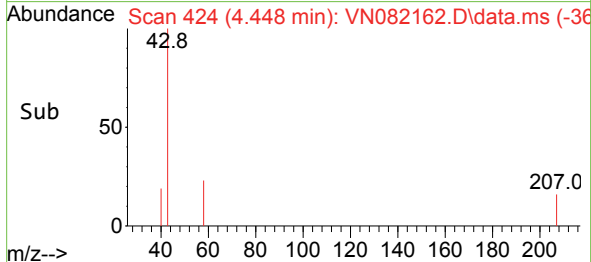
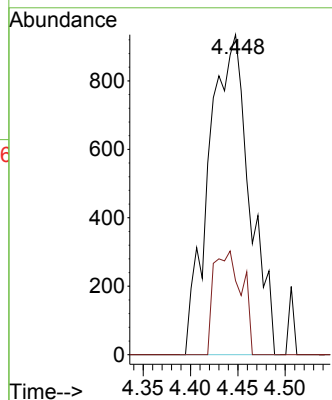
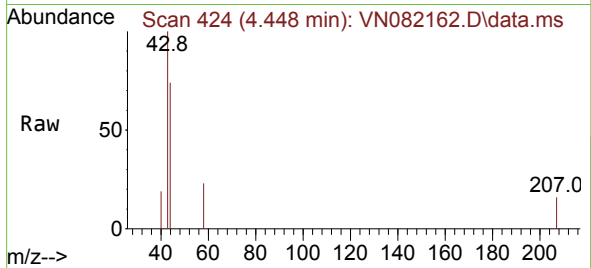




#16
Acetone
Concen: 2.386 ug/l
RT: 4.448 min Scan# 41
Delta R.T. 0.024 min
Lab File: VN082162.D
Acq: 16 May 2024 15:19

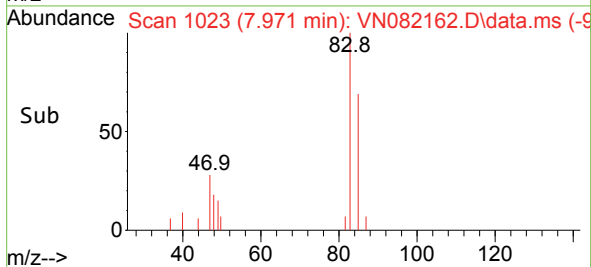
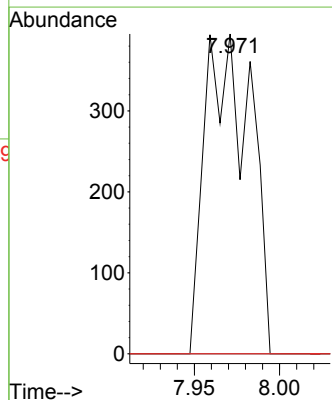
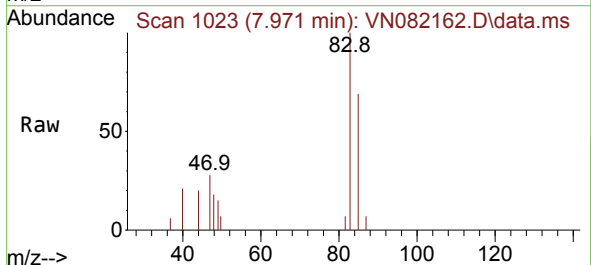
Instrument :
MSVOA_N
ClientSampleId :
240508023-02

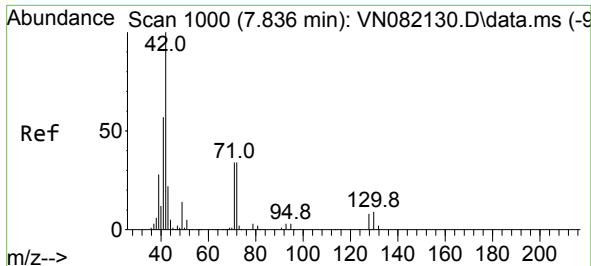
Tgt Ion: 43 Resp: 2786
Ion Ratio Lower Upper
43 100
58 23.1 25.2 37.8#



#28
Bromochloromethane
Concen: 0.347 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.159 min
Lab File: VN082162.D
Acq: 16 May 2024 15:19

Tgt Ion: 49 Resp: 733
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.6
130 0.0 66.7 100.1#





#29

Tetrahydrofuran

Concen: 0.887 ug/l

RT: 7.847 min Scan# 1000

Delta R.T. 0.011 min

Lab File: VN082162.D

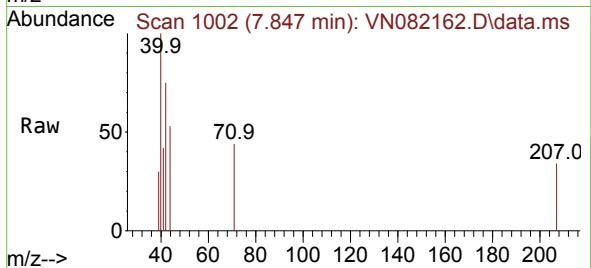
Acq: 16 May 2024 15:19

Instrument :

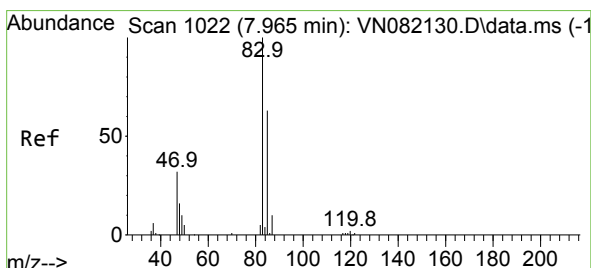
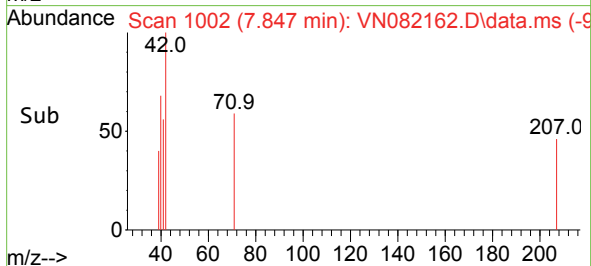
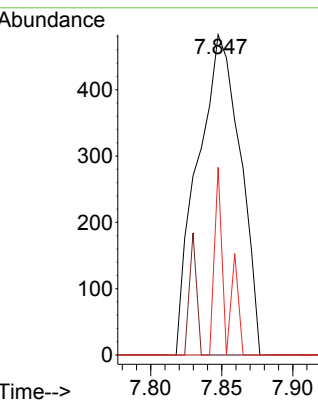
MSVOA_N

ClientSampleId :

240508023-02



Tgt Ion: 42	Resp: 1008
Ion Ratio	Lower Upper
42	100
72	6.4 39.3 58.9#
71	15.3 37.4 56.0#



#30

Chloroform

Concen: 1.661 ug/l

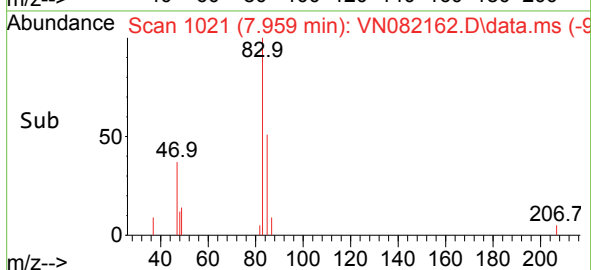
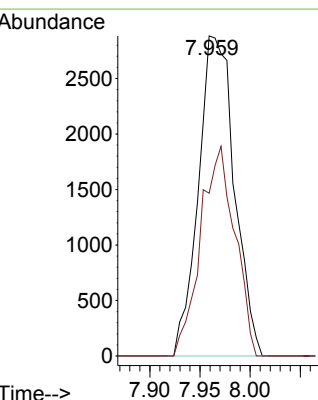
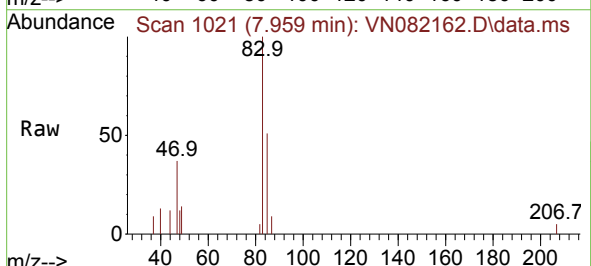
RT: 7.959 min Scan# 1021

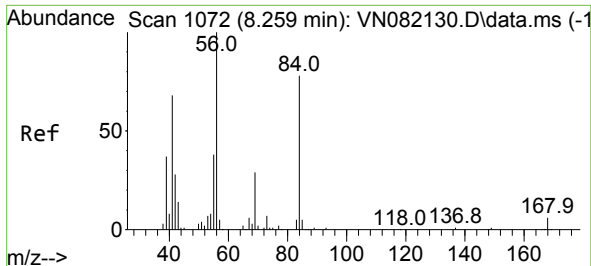
Delta R.T. -0.006 min

Lab File: VN082162.D

Acq: 16 May 2024 15:19

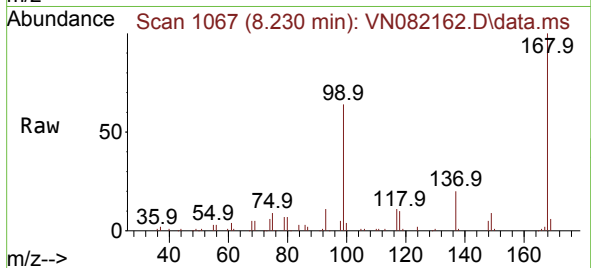
Tgt Ion: 83	Resp: 7195
Ion Ratio	Lower Upper
83	100
85	50.9 50.7 76.1



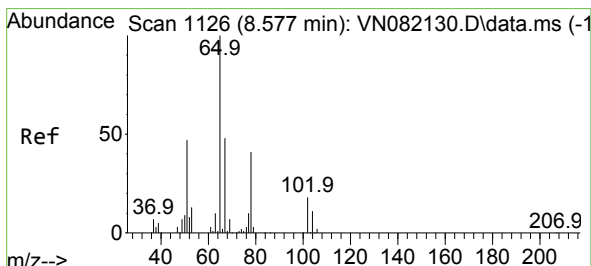
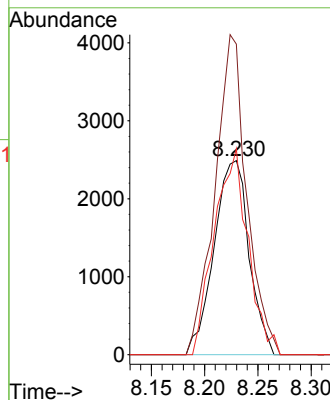
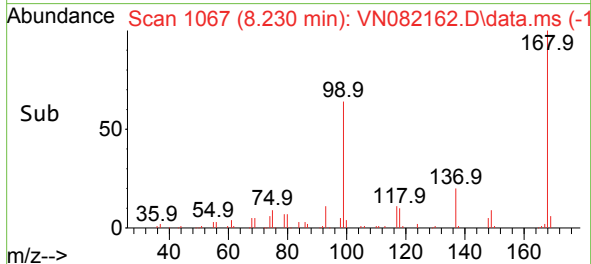


#31
Cyclohexane
Concen: 1.250 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN082162.D
Acq: 16 May 2024 15:19

Instrument :
MSVOA_N
ClientSampleId :
240508023-02

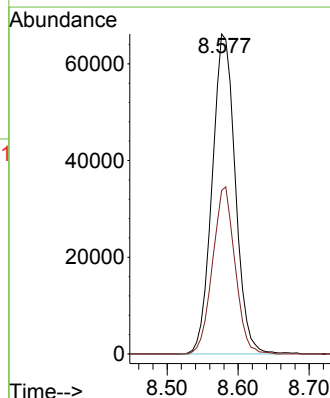
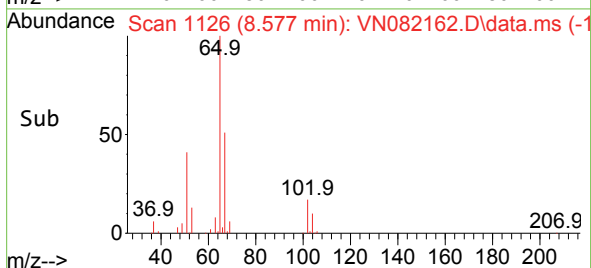
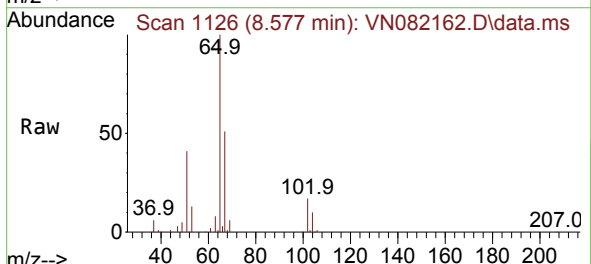


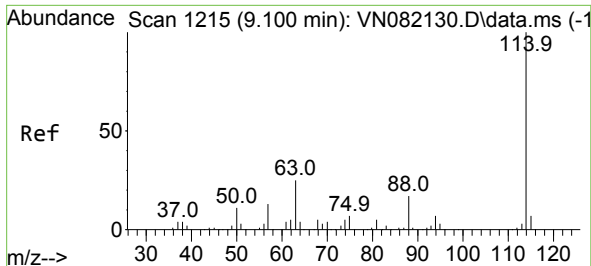
Tgt Ion: 56 Resp: 5685
Ion Ratio Lower Upper
56 100
69 160.0 24.4 36.6#
84 106.1 77.0 115.4



#33
1,2-Dichloroethane-d4
Concen: 52.509 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN082162.D
Acq: 16 May 2024 15:19

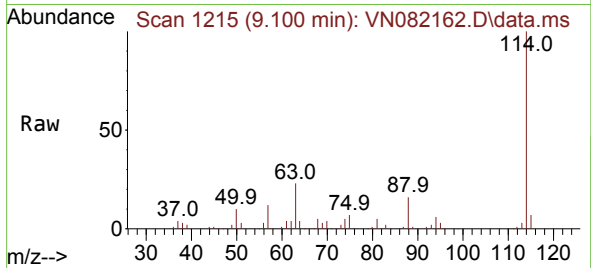
Tgt Ion: 65 Resp: 149466
Ion Ratio Lower Upper
65 100
67 50.7 0.0 103.0



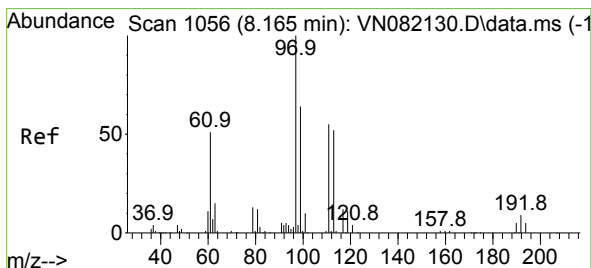
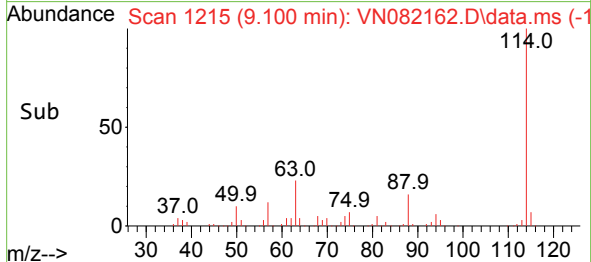
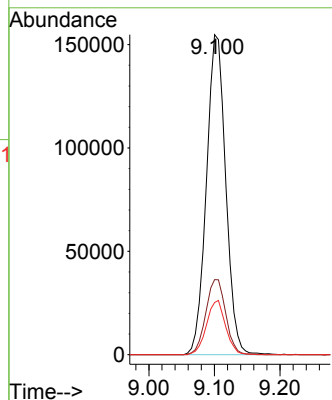


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN082162.D
Acq: 16 May 2024 15:19

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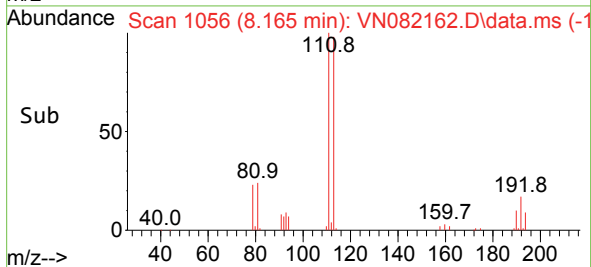
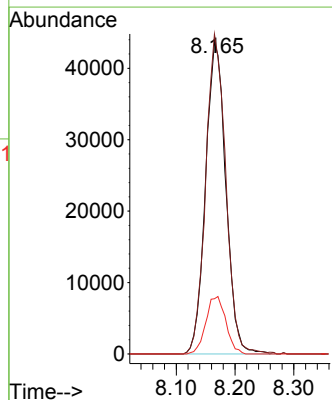
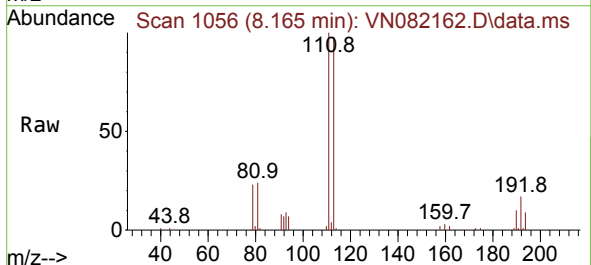


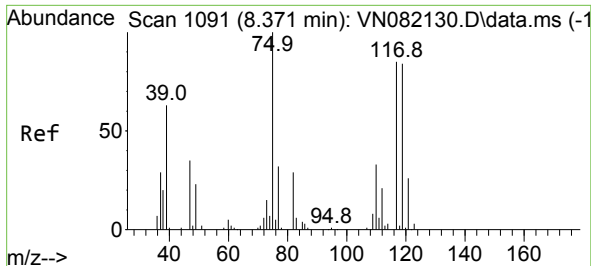
Tgt Ion:114 Resp: 317523
Ion Ratio Lower Upper
114 100
63 23.4 0.0 41.0
88 16.3 0.0 31.4



#35
Dibromofluoromethane
Concen: 53.721 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN082162.D
Acq: 16 May 2024 15:19

Tgt Ion:113 Resp: 104930
Ion Ratio Lower Upper
113 100
111 101.6 83.4 125.2
192 18.1 14.0 21.0





#36

1,1-Dichloropropene

Concen: 5.259 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN082162.D

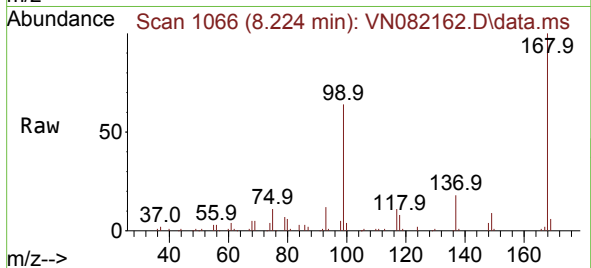
Acq: 16 May 2024 15:19

Instrument :

MSVOA_N

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240508023-02



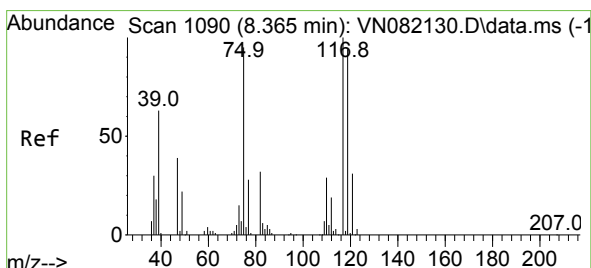
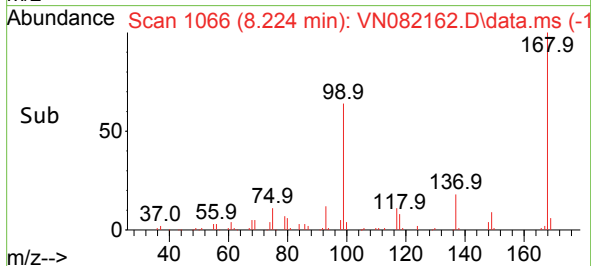
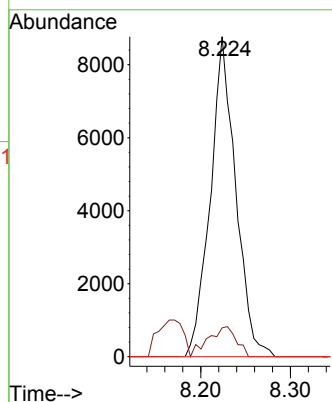
Tgt Ion: 75 Resp: 17229

Ion Ratio Lower Upper

75 100

110 10.3 17.8 53.5#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.863 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN082162.D

Acq: 16 May 2024 15:19

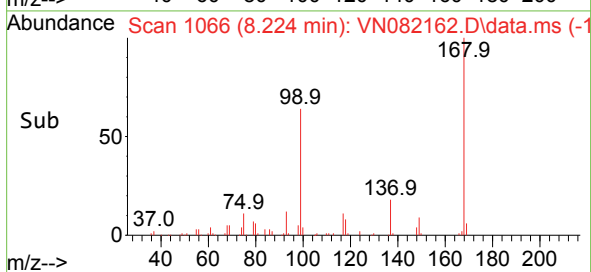
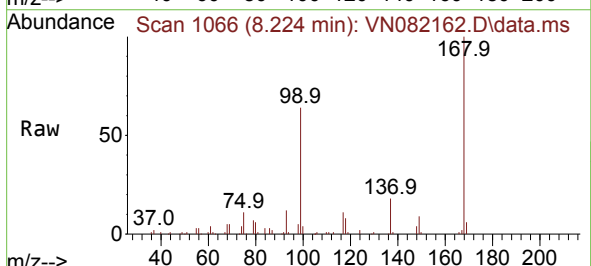
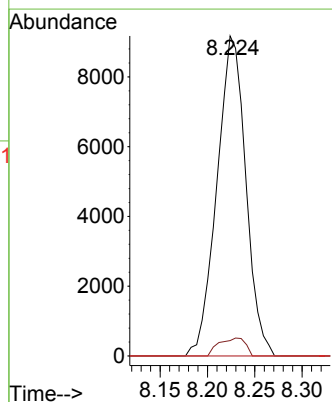
Tgt Ion: 117 Resp: 19471

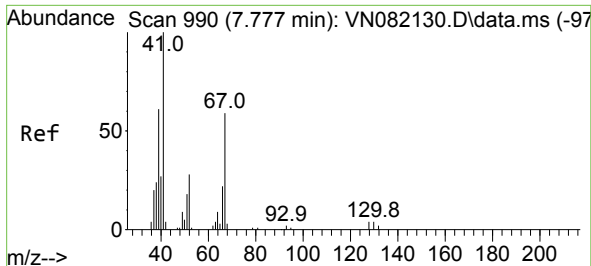
Ion Ratio Lower Upper

117 100

119 4.8 76.5 114.7#

121 0.0 23.9 35.9#

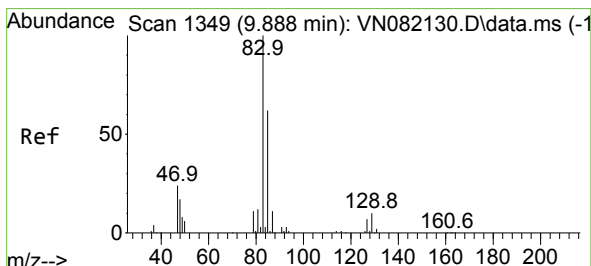
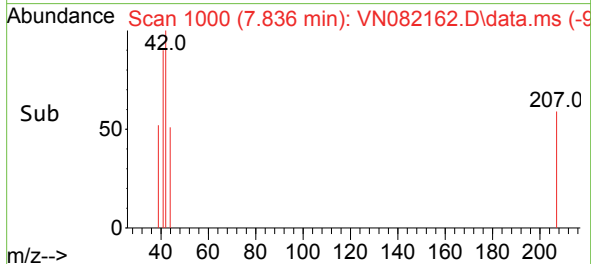
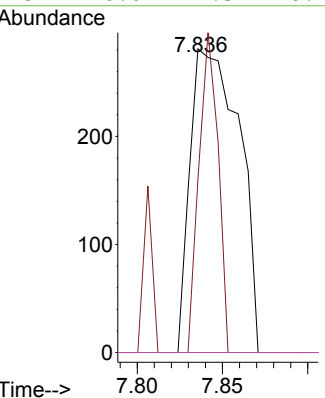
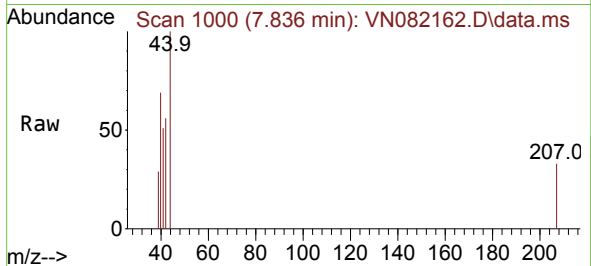




#41
Methacrylonitrile
Concen: 0.260 ug/l
RT: 7.836 min Scan# 1000
Delta R.T. 0.059 min
Lab File: VN082162.D
Acq: 16 May 2024 15:19

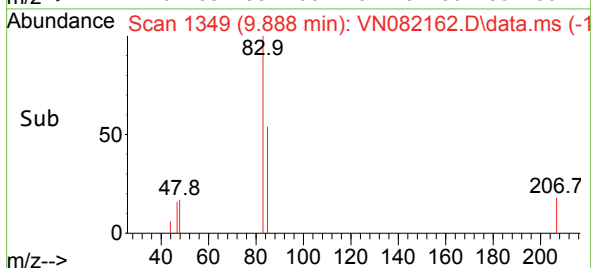
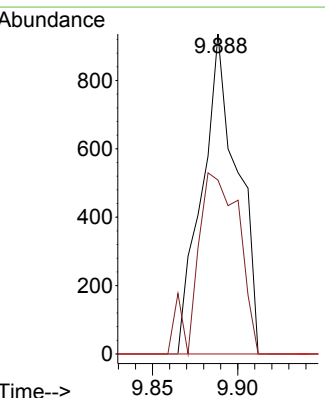
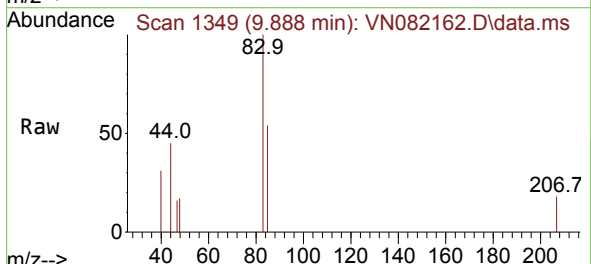
Instrument :
MSVOA_N
ClientSampleId :
240508023-02

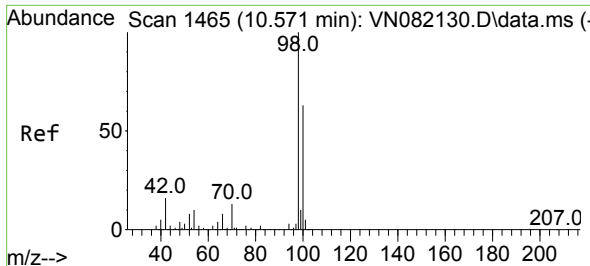
Tgt Ion:	41	Resp:	560
Ion	Ratio	Lower	Upper
41	100		
39	41.1	46.6	69.8#
67	0.0	67.3	100.9#
52	0.0	27.3	40.9#



#47
Bromodichloromethane
Concen: 0.386 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. 0.000 min
Lab File: VN082162.D
Acq: 16 May 2024 15:19

Tgt Ion:	83	Resp:	1349
Ion	Ratio	Lower	Upper
83	100		
85	54.4	51.9	77.9
127	0.0	7.5	11.3#

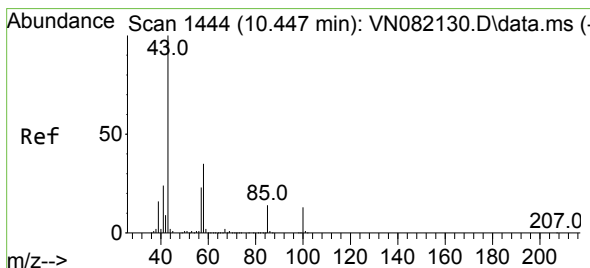
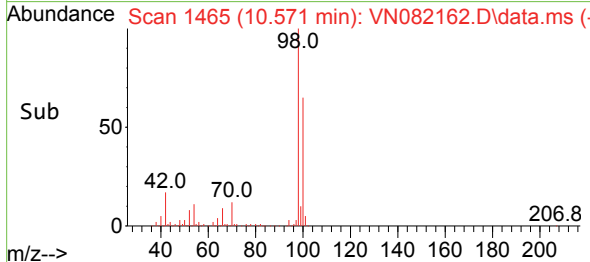
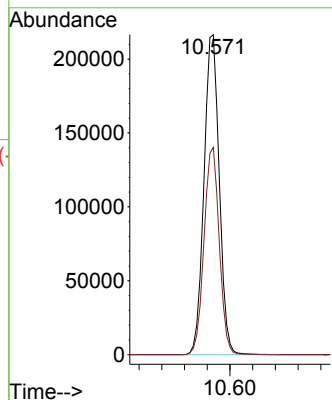
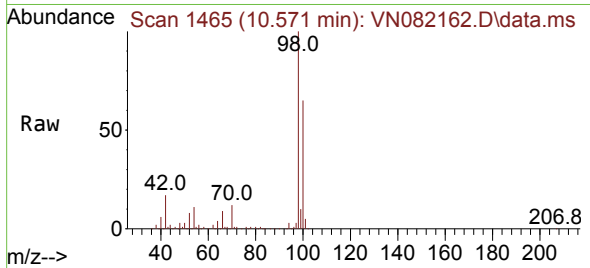




#50
Toluene-d8
Concen: 53.837 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN082162.D
Acq: 16 May 2024 15:19

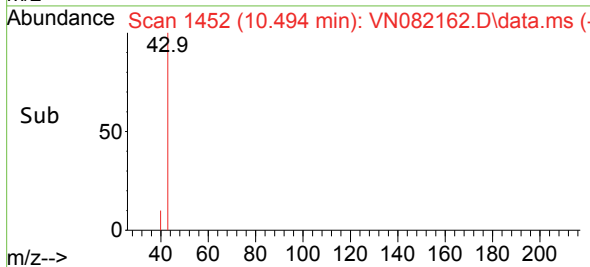
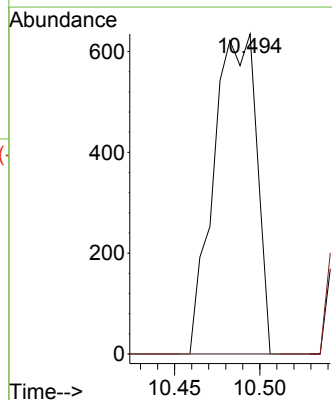
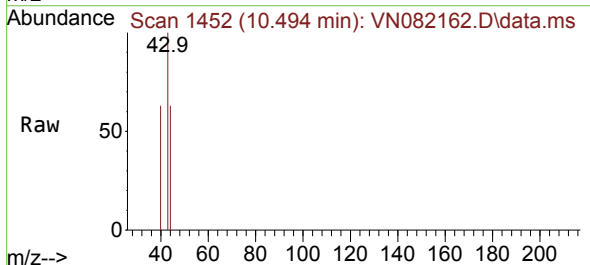
Instrument :
MSVOA_N
ClientSampleId :
240508023-02

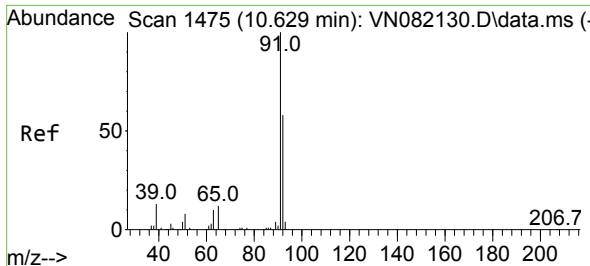
Tgt Ion: 98 Resp: 403168
Ion Ratio Lower Upper
98 100
100 64.6 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 0.299 ug/l
RT: 10.494 min Scan# 1452
Delta R.T. 0.047 min
Lab File: VN082162.D
Acq: 16 May 2024 15:19

Tgt Ion: 43 Resp: 1103
Ion Ratio Lower Upper
43 100
58 0.0 33.2 49.8#

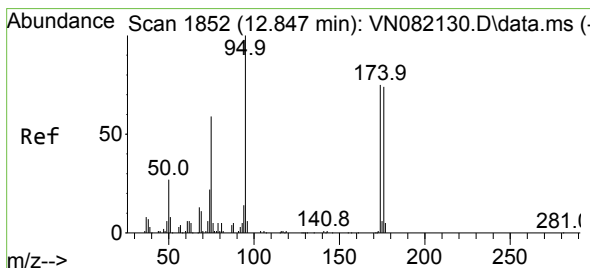
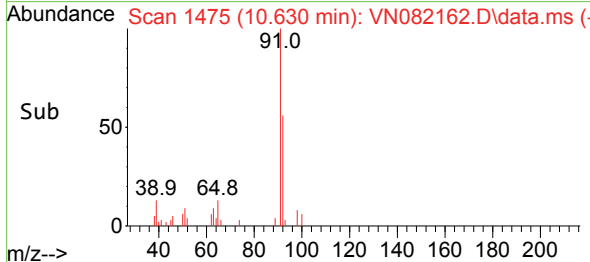
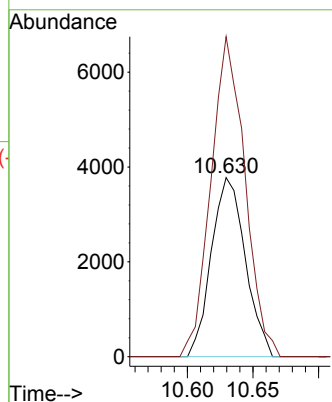
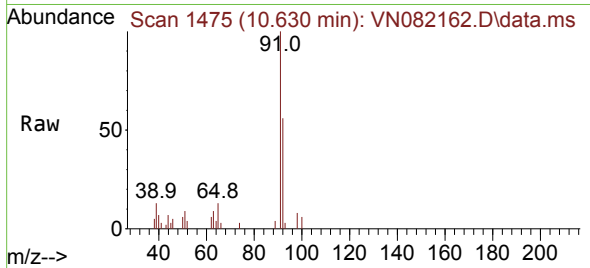




#52
Toluene
Concen: 1.160 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN082162.D
Acq: 16 May 2024 15:19

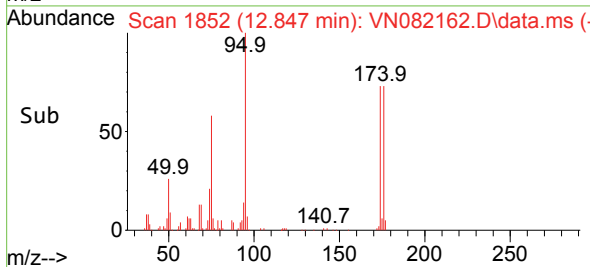
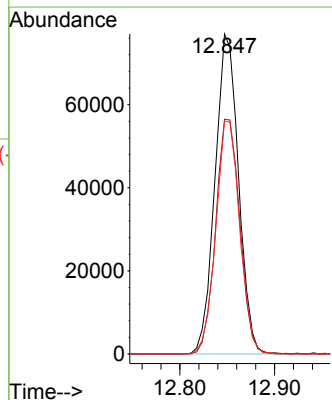
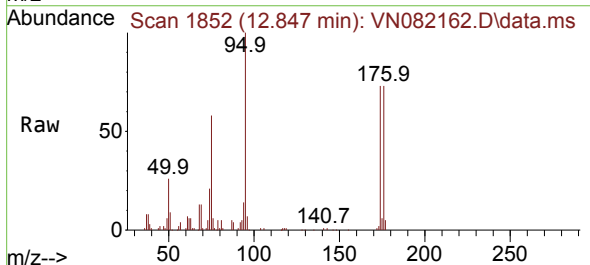
Instrument :
MSVOA_N
ClientSampleId :
240508023-02

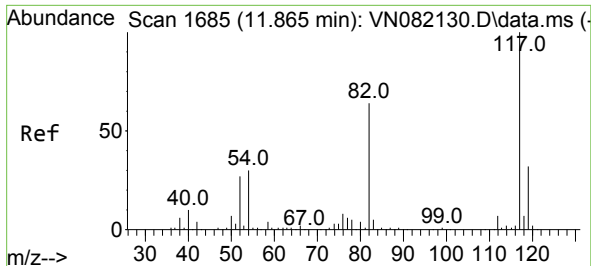
Tgt Ion: 92 Resp: 6802
Ion Ratio Lower Upper
92 100
91 178.8 136.7 205.1



#62
4-Bromofluorobenzene
Concen: 49.711 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN082162.D
Acq: 16 May 2024 15:19

Tgt Ion: 95 Resp: 132872
Ion Ratio Lower Upper
95 100
174 75.4 0.0 160.6
176 73.5 0.0 152.8

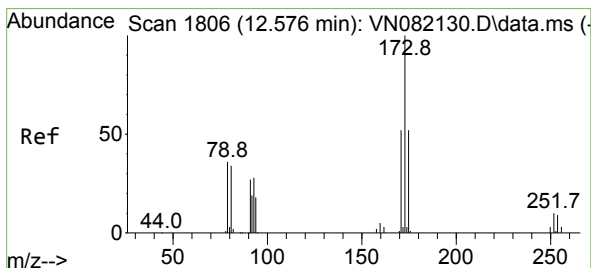
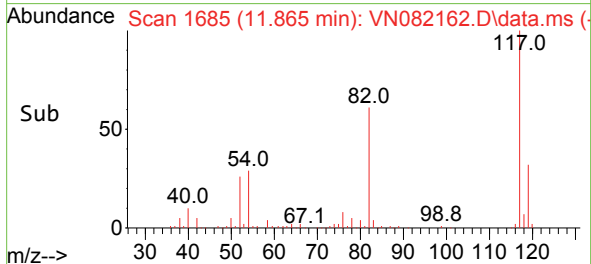
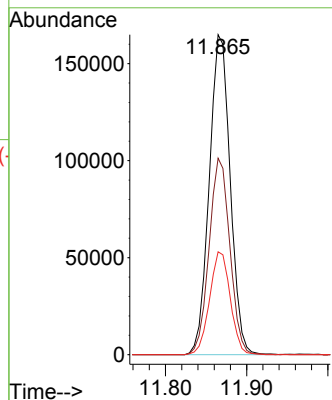
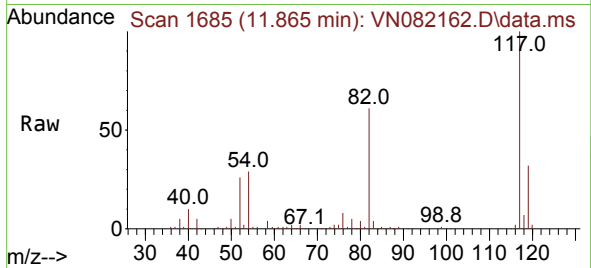




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN082162.D
Acq: 16 May 2024 15:19

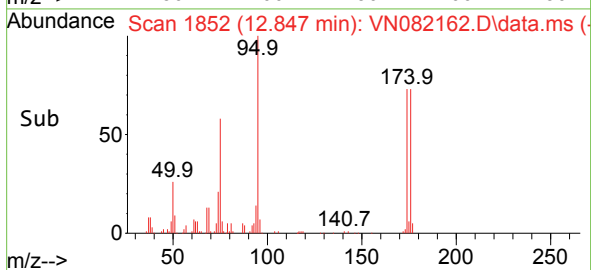
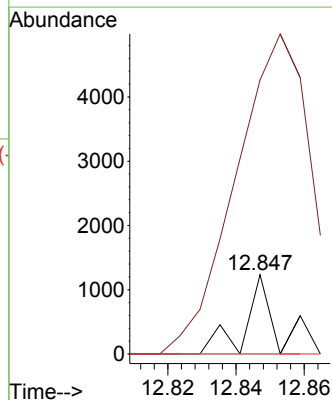
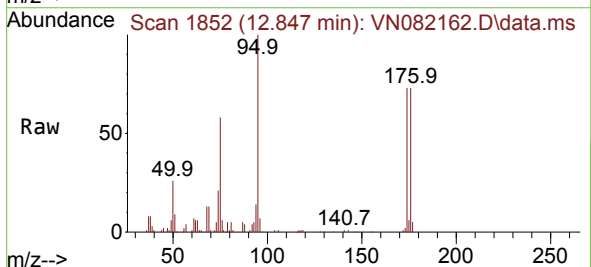
Instrument :
MSVOA_N
ClientSampleId :
240508023-02

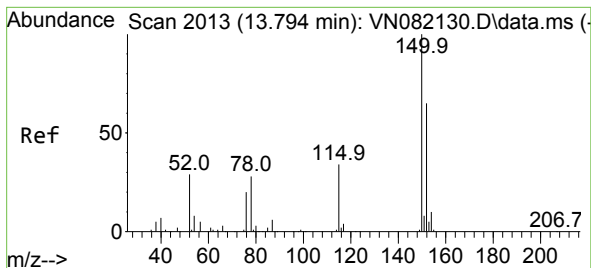
Tgt Ion:117 Resp: 295140
Ion Ratio Lower Upper
117 100
82 61.4 44.6 66.8
119 32.1 25.9 38.9



#71
Bromoform
Concen: 0.386 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN082162.D
Acq: 16 May 2024 15:19

Tgt Ion:173 Resp: 596
Ion Ratio Lower Upper
173 100
175 0.0 24.6 74.0#
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: VN082162.D

Acq: 16 May 2024 15:19

Instrument :

MSVOA_N

ClientSampleId :

240508023-02

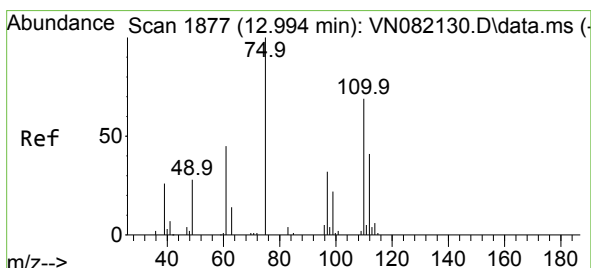
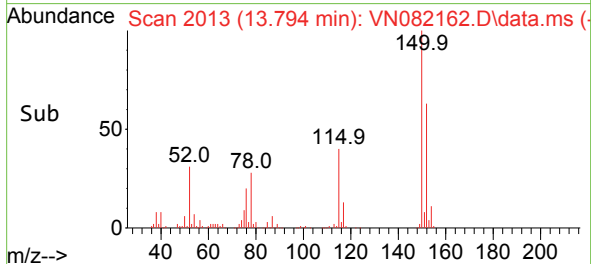
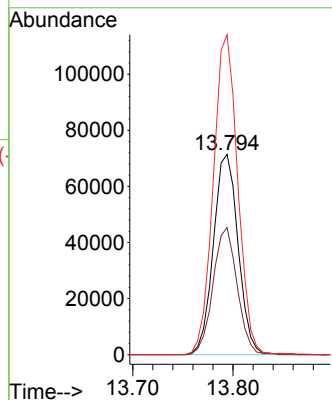
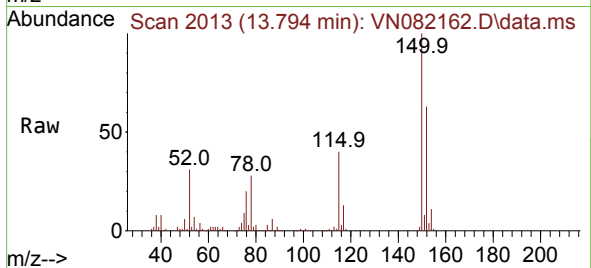
Tgt Ion:152 Resp: 122249

Ion Ratio Lower Upper

152 100

115 62.1 30.4 91.3

150 157.5 0.0 353.2



#76

1,2,3-Trichloropropane

Concen: 30.535 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN082162.D

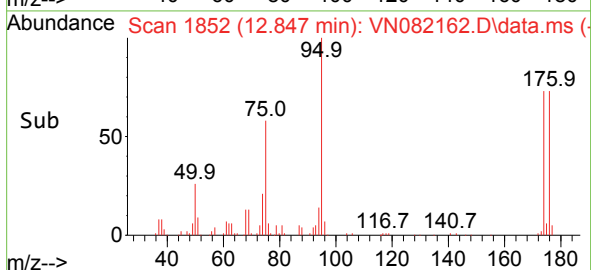
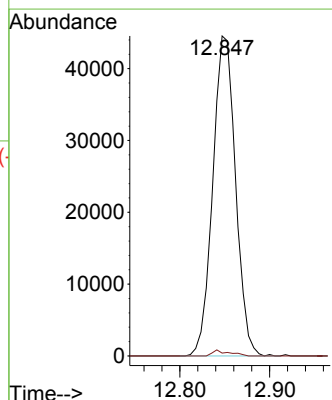
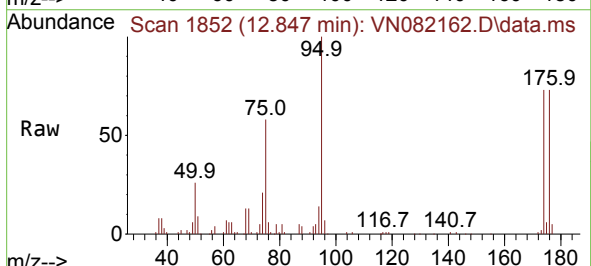
Acq: 16 May 2024 15:19

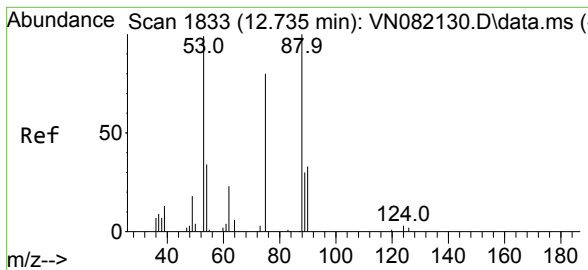
Tgt Ion: 75 Resp: 78568

Ion Ratio Lower Upper

75 100

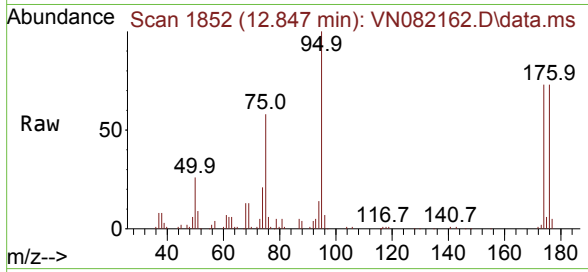
77 1.4 90.5 271.3#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.420 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN082162.D
 Acq: 16 May 2024 15:19

Instrument :
 MSVOA_N
 ClientSampleId :
 240508023-02



Tgt Ion: 75 Resp: 78568
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.9 109.3#
 89 0.0 39.1 58.7#

