

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN053124\
 Data File : VN082398.D
 Acq On : 31 May 2024 11:00
 Operator : JC\MD
 Sample : VN0531MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0531MBL01

Quant Time: May 31 22:53:53 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051524W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 16 05:21:06 2024
 Response via : Initial Calibration

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

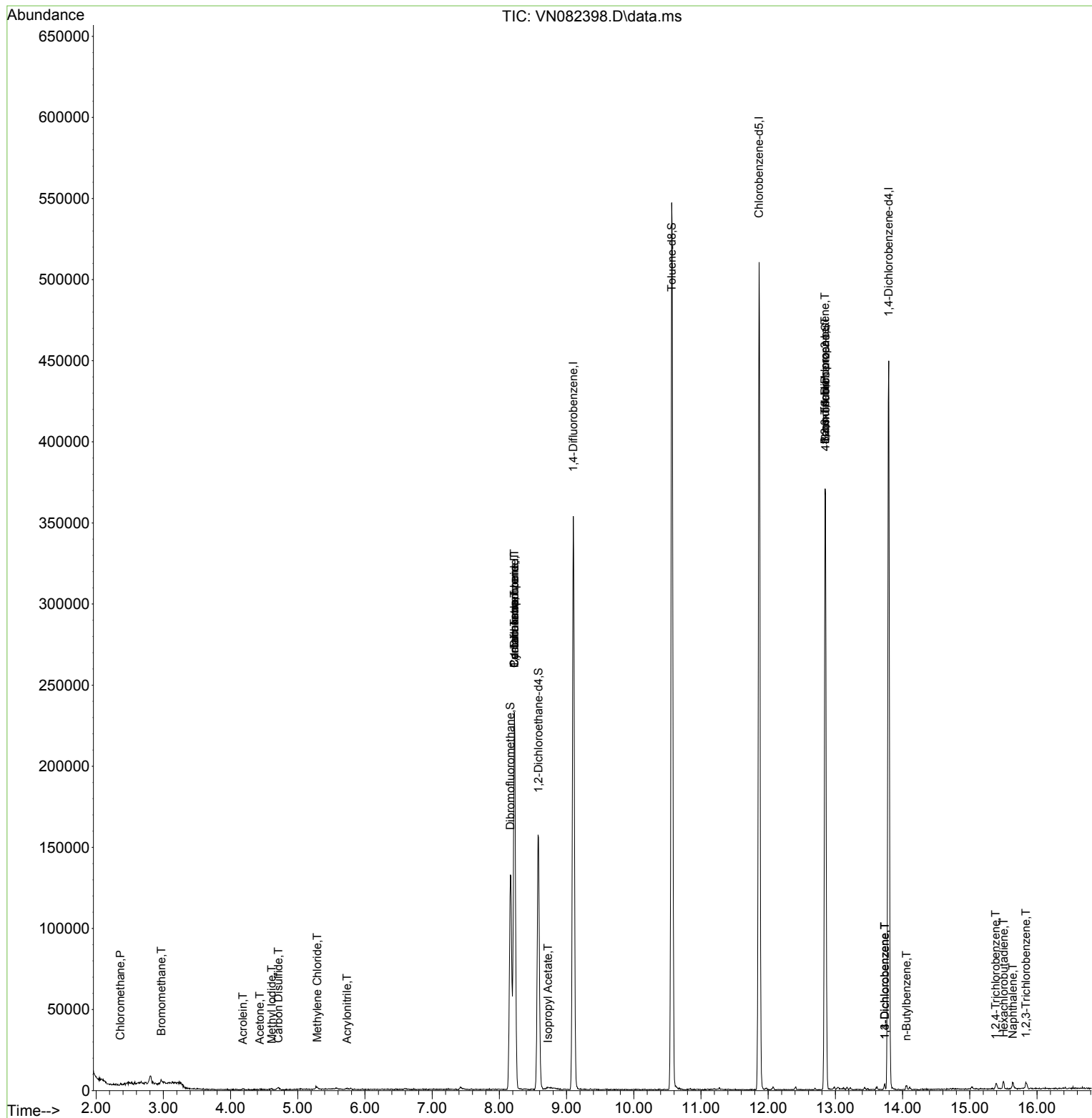
Internal Standards						
1) Pentafluorobenzene	8.224	168	157817	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	279337	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	263930	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	110474	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	128708	51.649	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.300%			
35) Dibromofluoromethane	8.165	113	94378	54.924	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.840%			
50) Toluene-d8	10.565	98	355669	53.987	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.980%			
62) 4-Bromofluorobenzene	12.853	95	117877	50.130	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 100.260%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	710	0.275	ug/l #	43
5) Bromomethane	2.971	94	1072	0.769	ug/l	97
10) Methyl Iodide	4.612	142	1076	0.577	ug/l #	89
13) Acrolein	4.183	56	170	0.573	ug/l #	64
15) Acrylonitrile	5.736	53	812	0.784	ug/l #	57
16) Acetone	4.436	43	223	0.218	ug/l #	43
17) Carbon Disulfide	4.712	76	2723	0.489	ug/l #	74
20) Methylene Chloride	5.289	84	769	0.373	ug/l #	89
28) Bromochloromethane	7.812	49	57	Below Cal	#	10
31) Cyclohexane	8.224	56	4573	1.149	ug/l #	35
36) 1,1-Dichloropropene	8.224	75	14582	5.060	ug/l #	49
38) Carbon Tetrachloride	8.224	117	17679	6.051	ug/l #	16
43) Isopropyl Acetate	8.724	43	1302	0.228	ug/l #	52
71) Bromoform	12.847	173	620	1.101	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	71190	30.616	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	71190	71.611	ug/l #	12
87) 1,3-Dichlorobenzene	13.735	146	951	0.251	ug/l	90
88) 1,4-Dichlorobenzene	13.735	146	951	0.246	ug/l	93
89) n-Butylbenzene	14.059	91	1789	0.285	ug/l	88
93) 1,2,4-Trichlorobenzene	15.388	180	1549	0.770	ug/l #	79
94) Hexachlorobutadiene	15.506	225	1025	1.162	ug/l	94
95) Naphthalene	15.641	128	4877	0.774	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.835	180	1675	0.832	ug/l	64

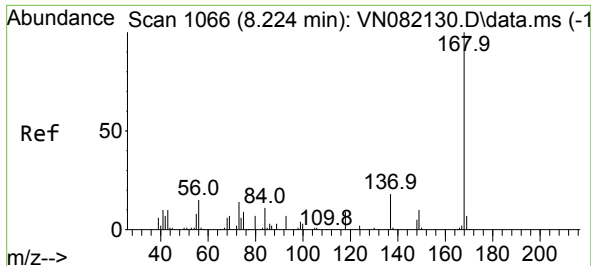
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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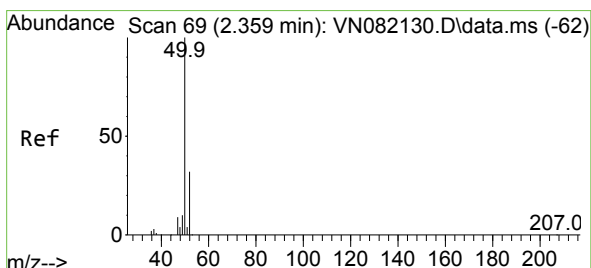
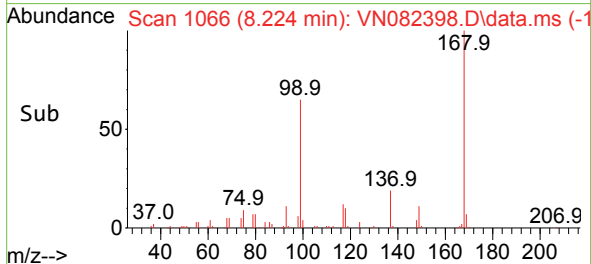
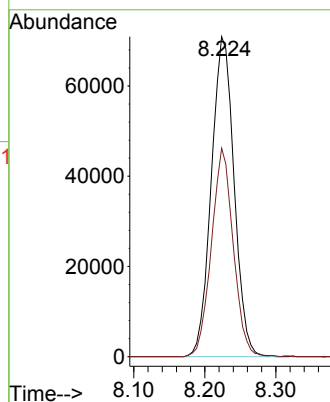
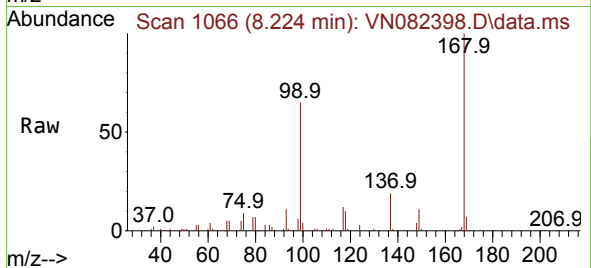




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

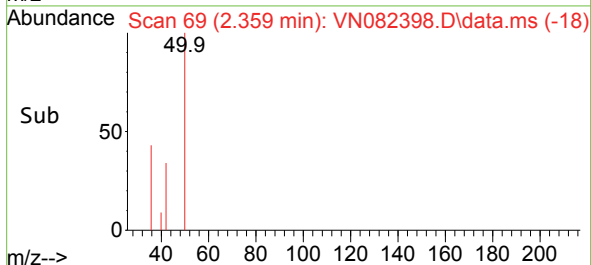
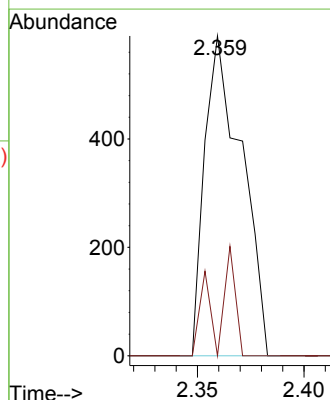
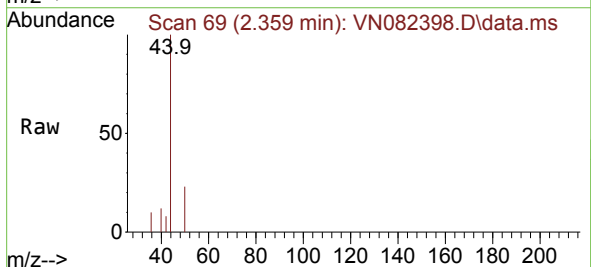
Instrument :
MSVOA_N
ClientSampleId :
VN0531MBL01

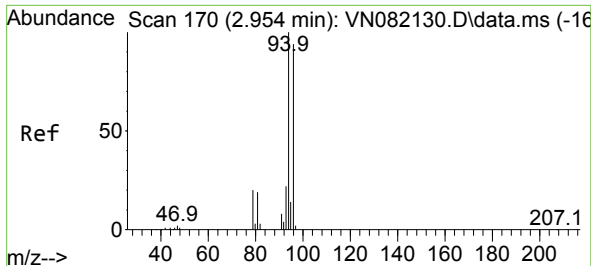
Tgt Ion:168 Resp: 157817
Ion Ratio Lower Upper
168 100
99 65.1 48.2 72.4



#3
Chloromethane
Concen: 0.275 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

Tgt Ion: 50 Resp: 710
Ion Ratio Lower Upper
50 100
52 0.0 25.5 38.3#

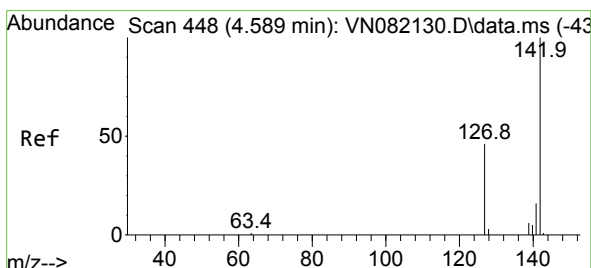
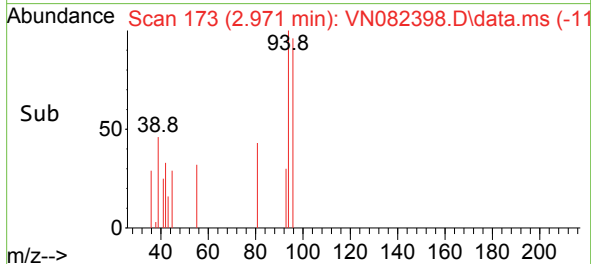
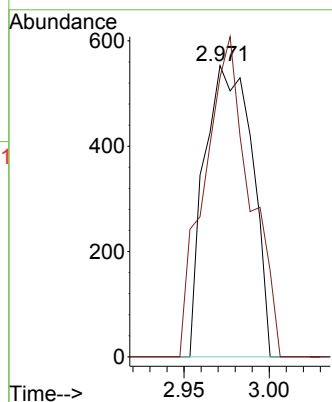
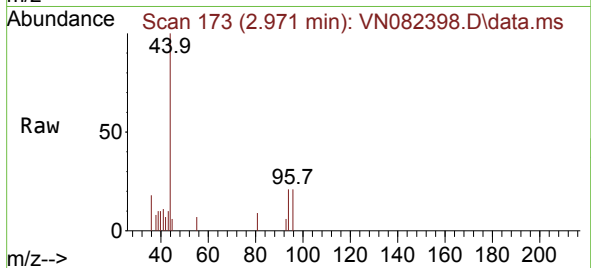




#5
Bromomethane
Concen: 0.769 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

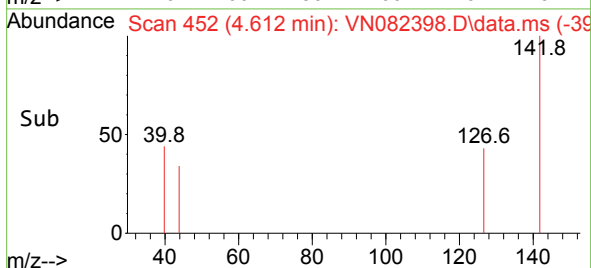
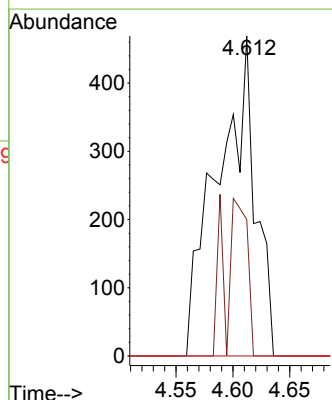
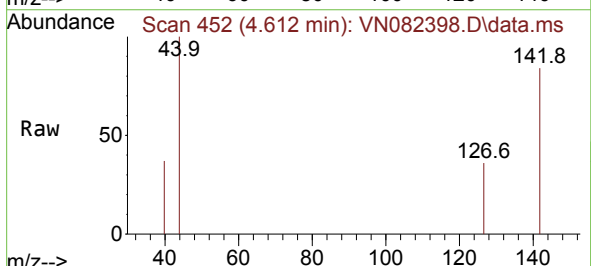
Instrument :
MSVOA_N
ClientSampleId :
VN0531MBL01

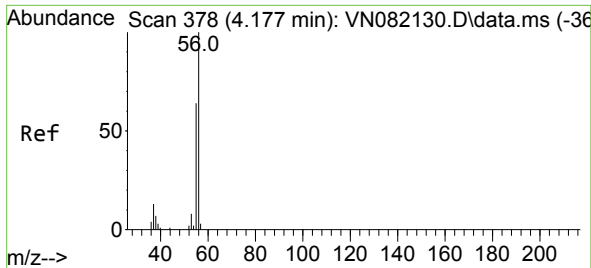
Tgt Ion: 94 Resp: 1072
Ion Ratio Lower Upper
94 100
96 96.0 74.8 112.2



#10
Methyl Iodide
Concen: 0.577 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.023 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

Tgt Ion: 142 Resp: 1076
Ion Ratio Lower Upper
142 100
127 42.6 35.8 53.6
141 0.0 11.4 17.2#





#13

Acrolein

Concen: 0.573 ug/l

RT: 4.183 min Scan# 31

Delta R.T. 0.006 min

Lab File: VN082398.D

Acq: 31 May 2024 11:00

Instrument :

MSVOA_N

ClientSampleId :

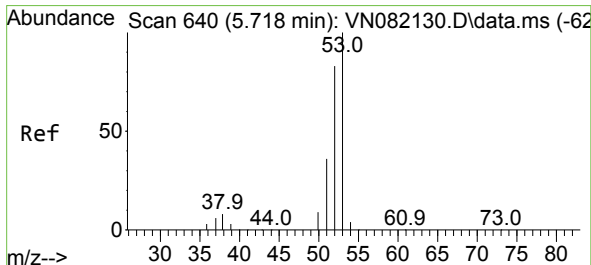
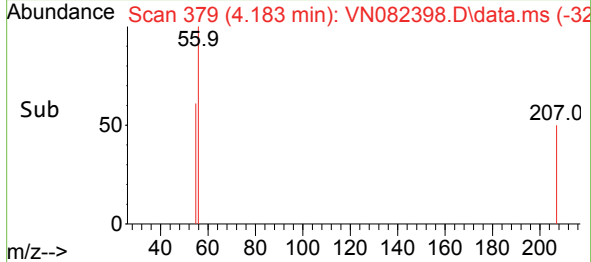
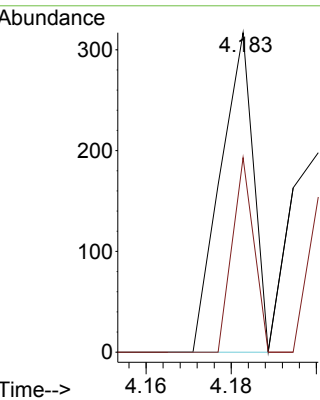
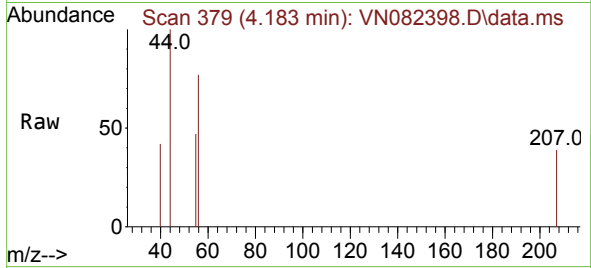
VN0531MBL01

Tgt Ion: 56 Resp: 170

Ion Ratio Lower Upper

56 100

55 40.0 55.8 83.8#



#15

Acrylonitrile

Concen: 0.784 ug/l

RT: 5.736 min Scan# 643

Delta R.T. 0.018 min

Lab File: VN082398.D

Acq: 31 May 2024 11:00

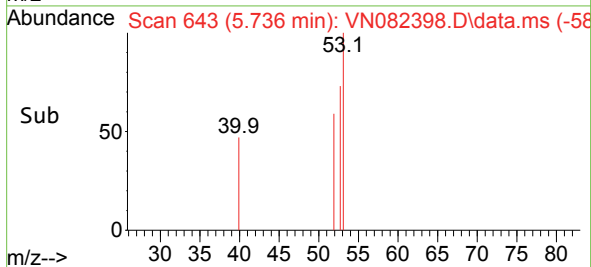
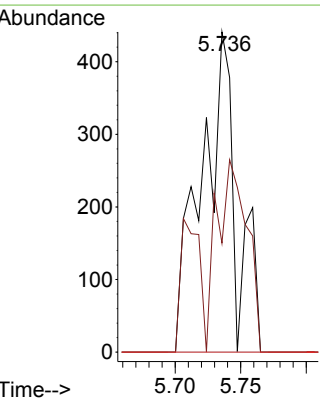
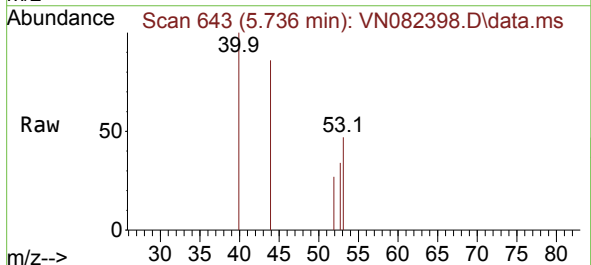
Tgt Ion: 53 Resp: 812

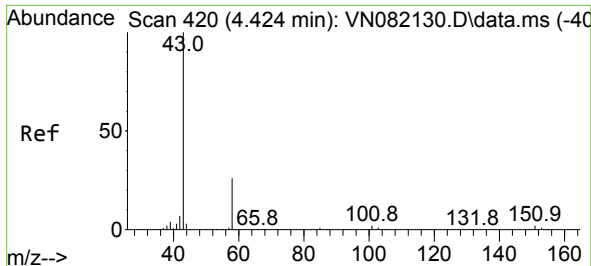
Ion Ratio Lower Upper

53 100

52 52.0 66.1 99.1#

51 0.0 29.4 44.2#

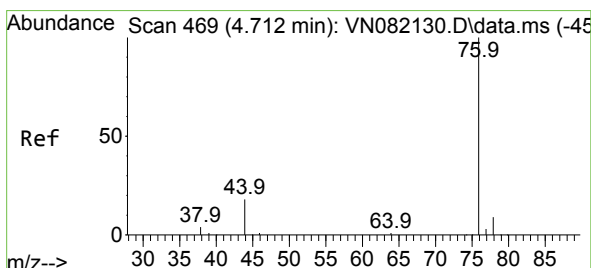
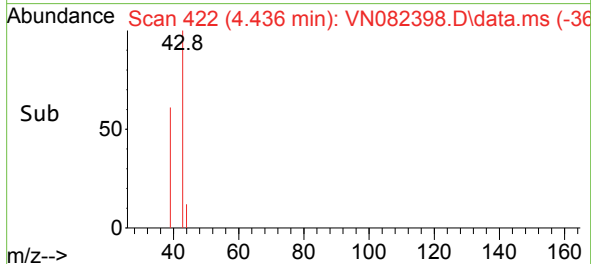
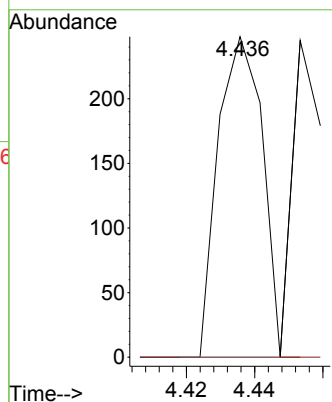
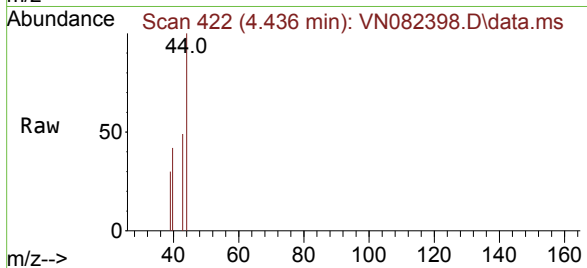




#16
Acetone
Concen: 0.218 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

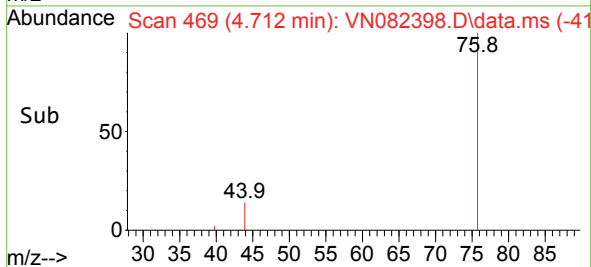
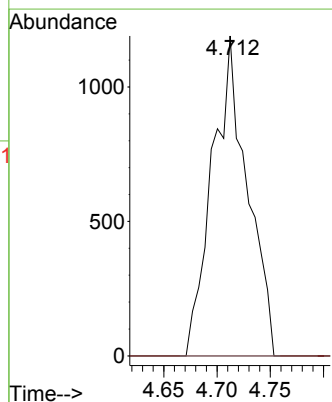
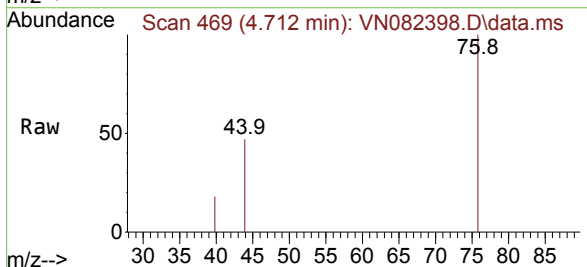
Instrument :
MSVOA_N
ClientSampleId :
VN0531MBL01

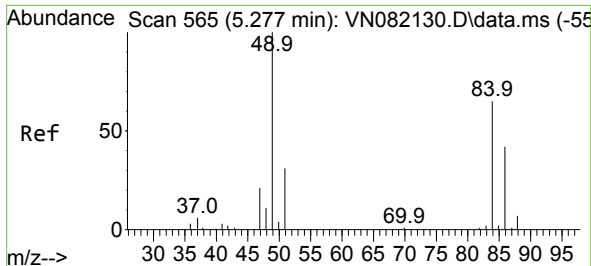
Tgt Ion: 43 Resp: 223
Ion Ratio Lower Upper
43 100
58 0.0 25.2 37.8#



#17
Carbon Disulfide
Concen: 0.489 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

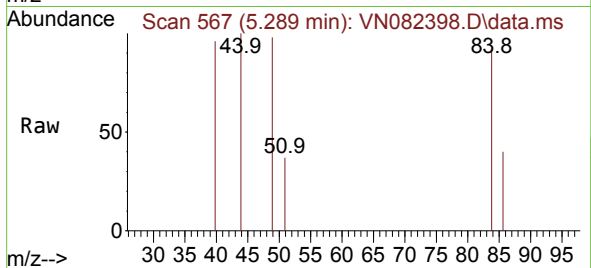
Tgt Ion: 76 Resp: 2723
Ion Ratio Lower Upper
76 100
78 0.0 7.5 11.3#



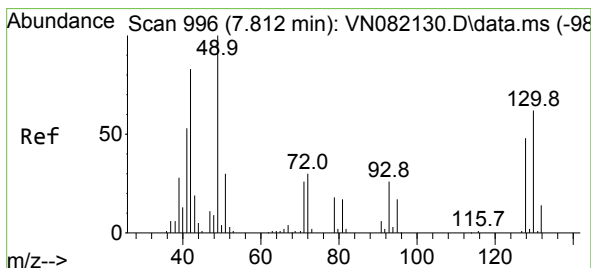
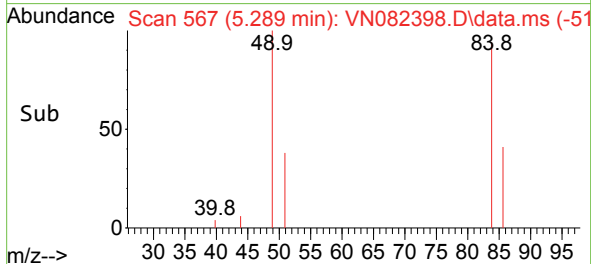
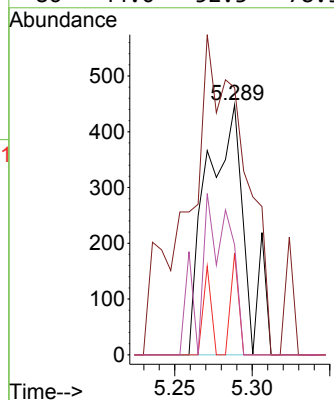


#20
Methylene Chloride
Concen: 0.373 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

Instrument :
MSVOA_N
ClientSampleId :
VN0531MBL01

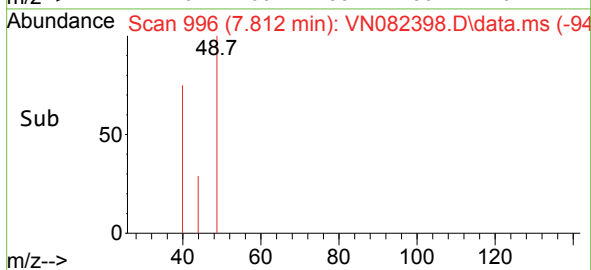
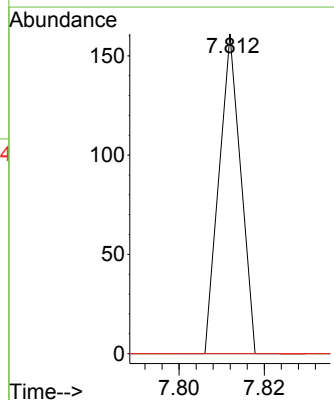
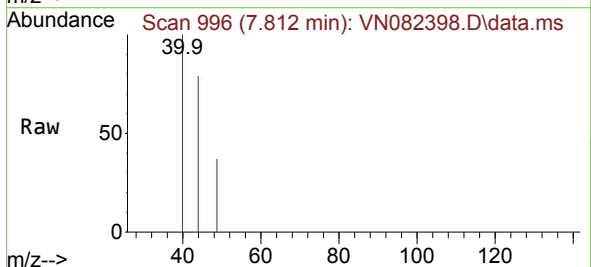


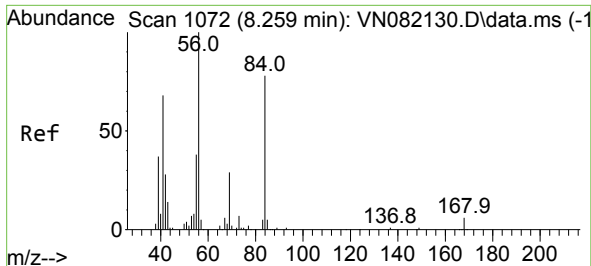
Tgt Ion:	84	Resp:	769
Ion	Ratio	Lower	Upper
84	100		
49	106.9	84.9	127.3
51	40.6	27.0	40.6#
86	44.0	52.3	78.5#



#28
Bromochloromethane
Concen: Below Cal
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

Tgt Ion:	49	Resp:	57
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.6
130	0.0	66.7	100.1#

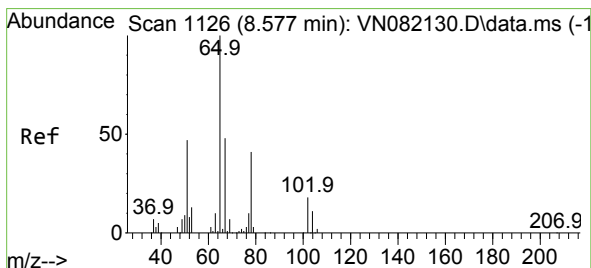
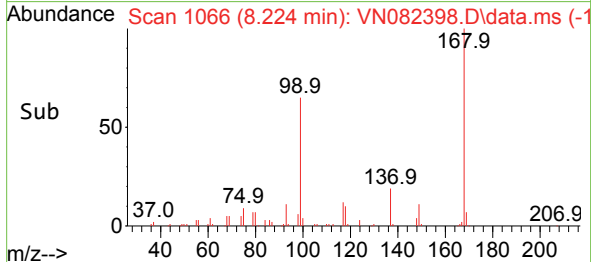
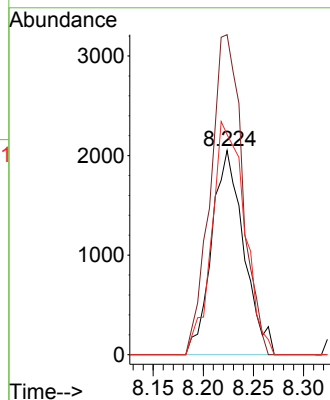
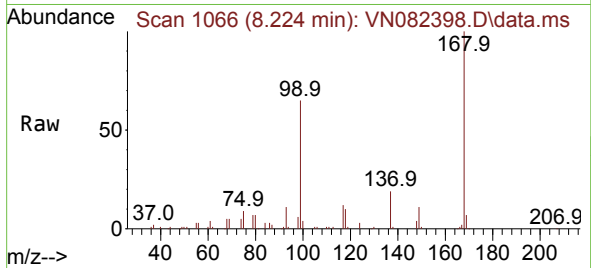




#31
Cyclohexane
Concen: 1.149 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

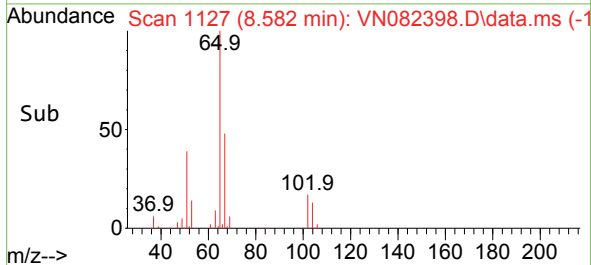
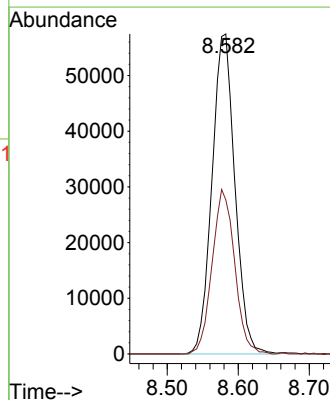
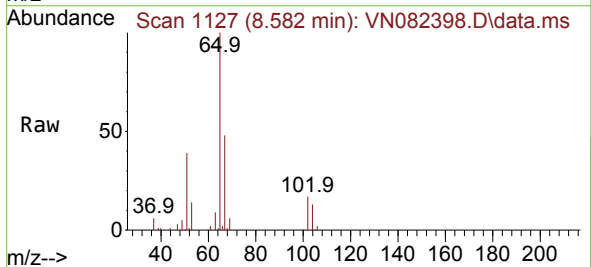
Instrument :
MSVOA_N
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VN0531MBL01

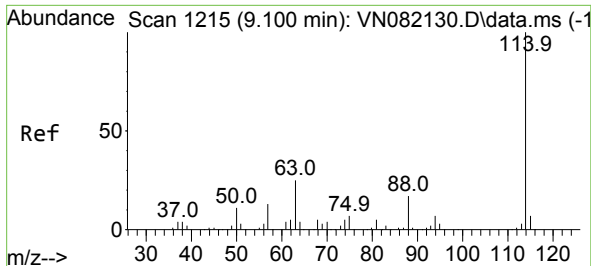
Tgt Ion: 56 Resp: 4573
Ion Ratio Lower Upper
56 100
69 156.8 24.4 36.6#
84 107.9 77.0 115.4



#33
1,2-Dichloroethane-d4
Concen: 51.649 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

Tgt Ion: 65 Resp: 128708
Ion Ratio Lower Upper
65 100
67 50.5 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN082398.D

Acq: 31 May 2024 11:00

Instrument :

MSVOA_N

ClientSampleId :

VN0531MBL01

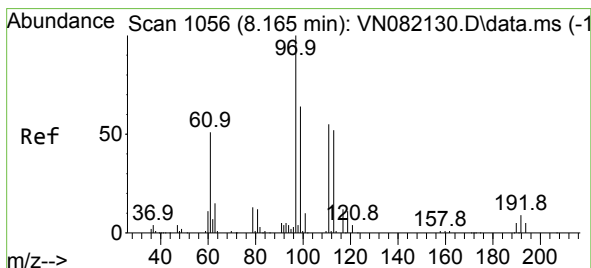
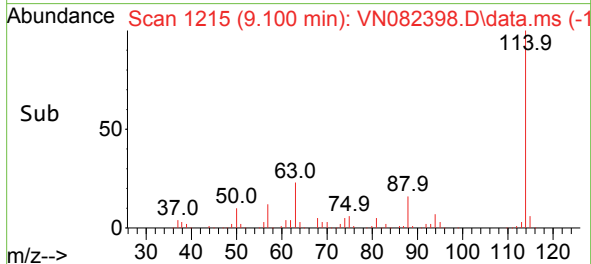
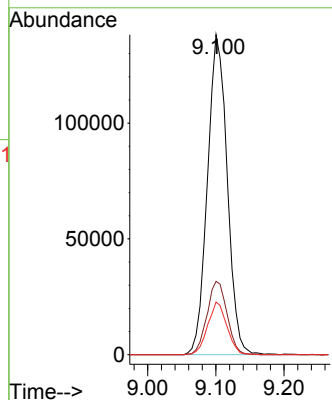
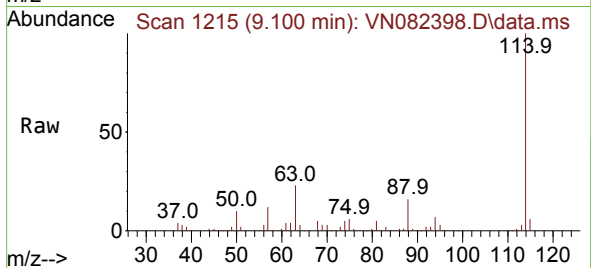
Tgt Ion:114 Resp: 279337

Ion Ratio Lower Upper

114 100

63 22.9 0.0 41.0

88 16.5 0.0 31.4



#35

Dibromofluoromethane

Concen: 54.924 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN082398.D

Acq: 31 May 2024 11:00

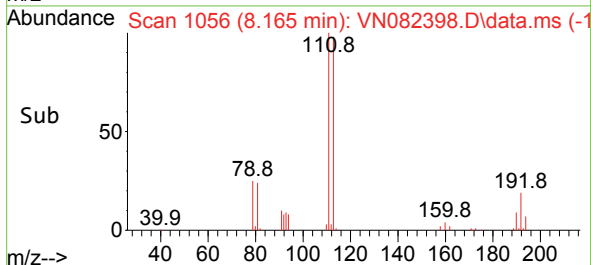
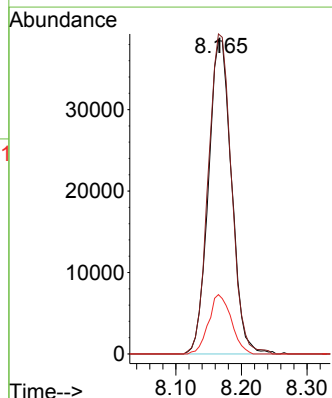
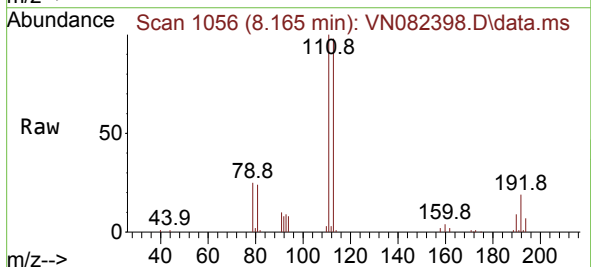
Tgt Ion:113 Resp: 94378

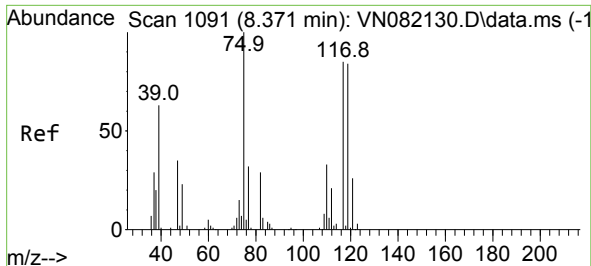
Ion Ratio Lower Upper

113 100

111 102.2 83.4 125.2

192 18.6 14.0 21.0

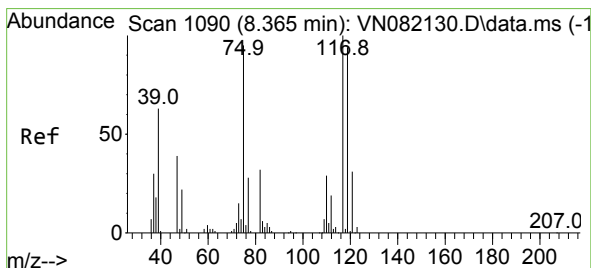
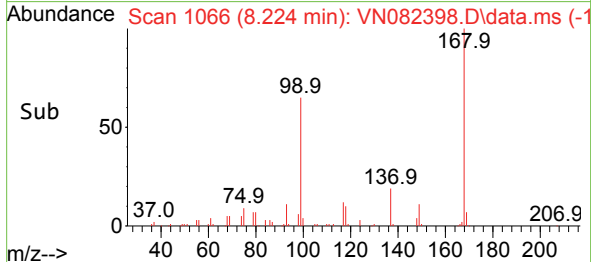
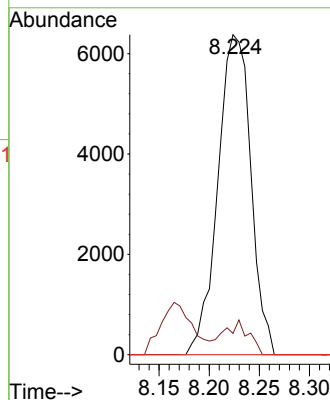
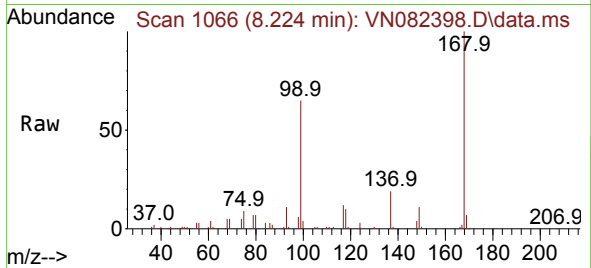




#36
 1,1-Dichloropropene
 Concen: 5.060 ug/l
 RT: 8.224 min Scan# 1066
 Delta R.T. -0.147 min
 Lab File: VN082398.D
 Acq: 31 May 2024 11:00

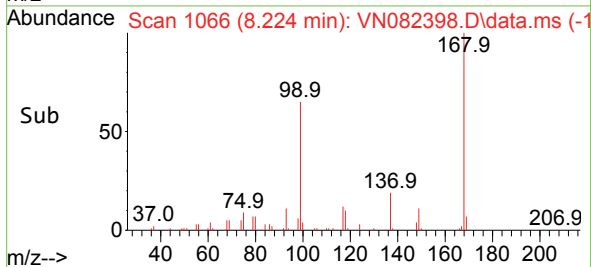
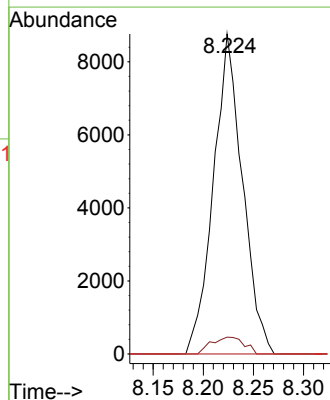
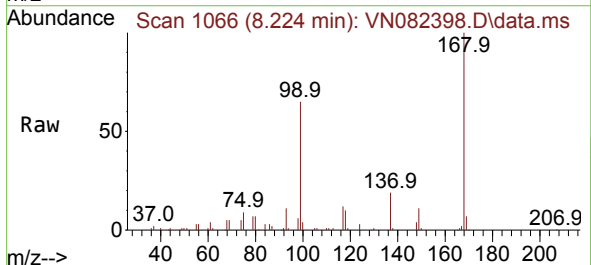
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0531MBL01

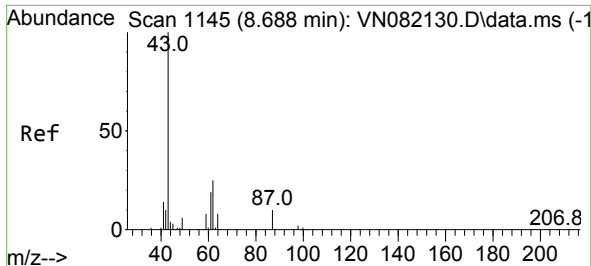
Tgt Ion: 75 Resp: 14582
 Ion Ratio Lower Upper
 75 100
 110 8.3 17.8 53.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.051 ug/l
 RT: 8.224 min Scan# 1066
 Delta R.T. -0.141 min
 Lab File: VN082398.D
 Acq: 31 May 2024 11:00

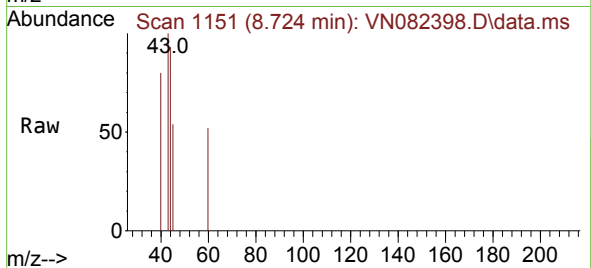
Tgt Ion: 117 Resp: 17679
 Ion Ratio Lower Upper
 117 100
 119 5.3 76.5 114.7#
 121 0.0 23.9 35.9#



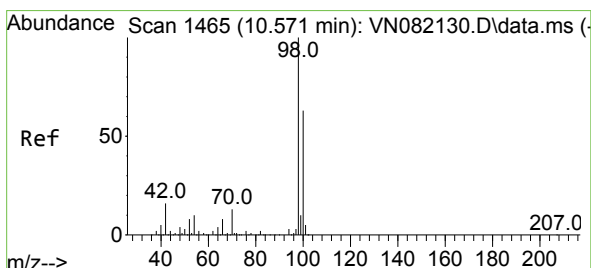
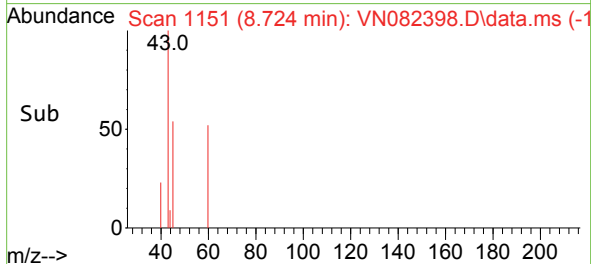
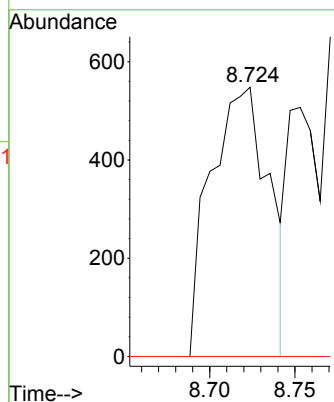


#43
Isopropyl Acetate
Concen: 0.228 ug/l
RT: 8.724 min Scan# 1151
Delta R.T. 0.035 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

Instrument :
MSVOA_N
ClientSampleId :
VN0531MBL01

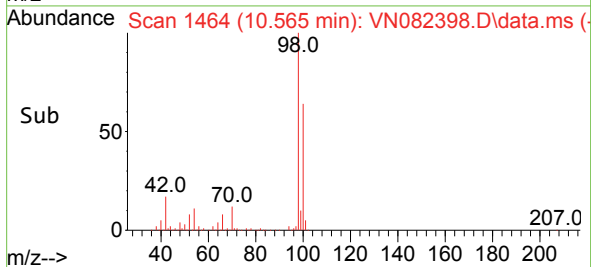
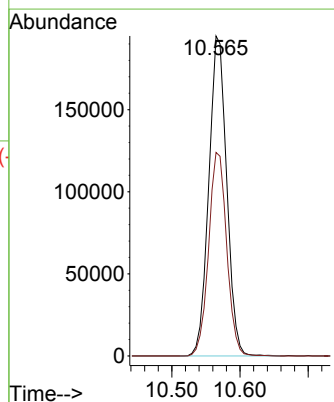
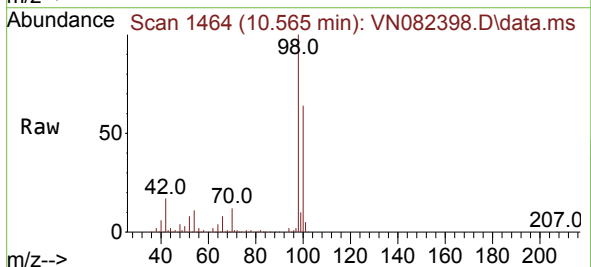


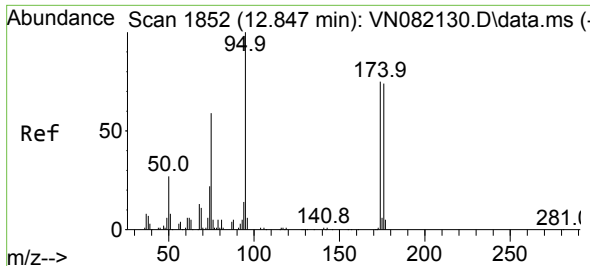
Tgt Ion: 43 Resp: 1302
Ion Ratio Lower Upper
43 100
61 0.0 22.8 34.2#
87 0.0 12.0 18.0#



#50
Toluene-d8
Concen: 53.987 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

Tgt Ion: 98 Resp: 355669
Ion Ratio Lower Upper
98 100
100 64.2 51.8 77.6

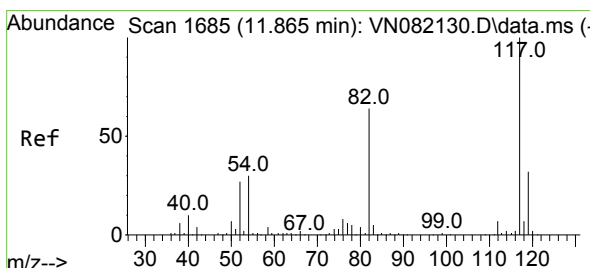
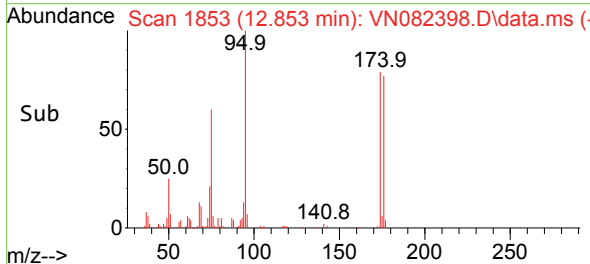
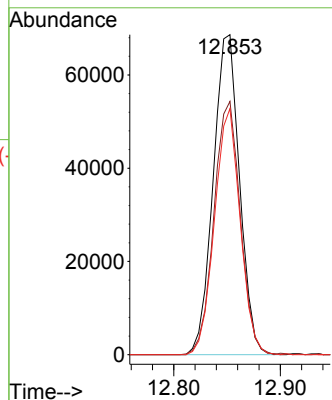
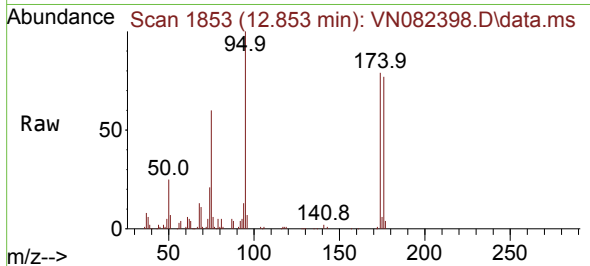




#62
4-Bromofluorobenzene
Concen: 50.130 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

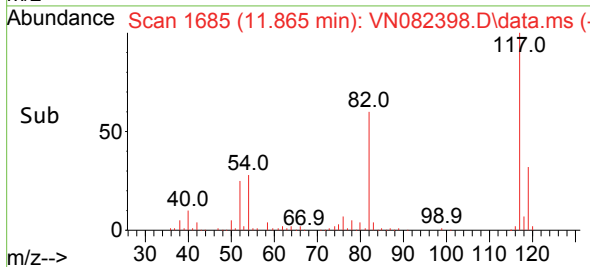
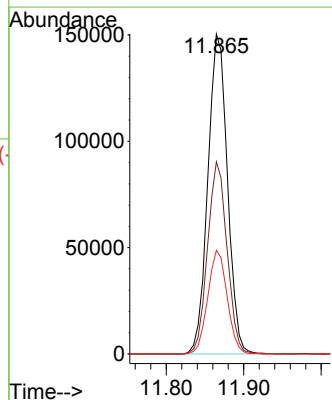
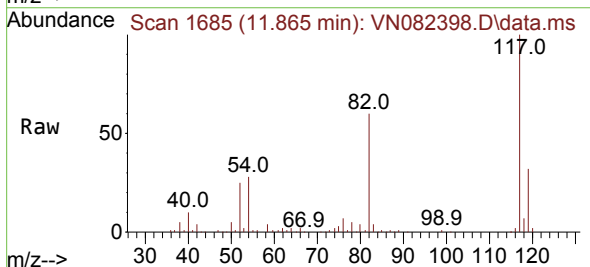
Instrument :
MSVOA_N
ClientSampleId :
VN0531MBL01

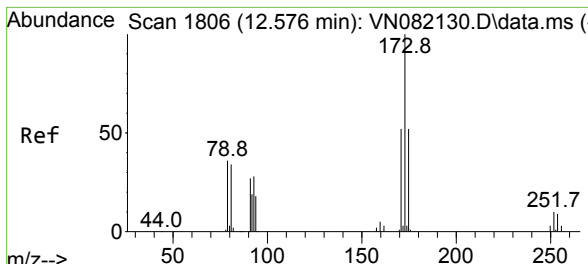
Tgt Ion: 95 Resp: 117877
Ion Ratio Lower Upper
95 100
174 79.3 0.0 160.6
176 74.8 0.0 152.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

Tgt Ion: 117 Resp: 263930
Ion Ratio Lower Upper
117 100
82 60.0 44.6 66.8
119 32.4 25.9 38.9

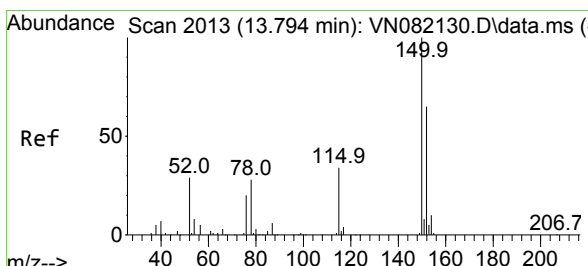
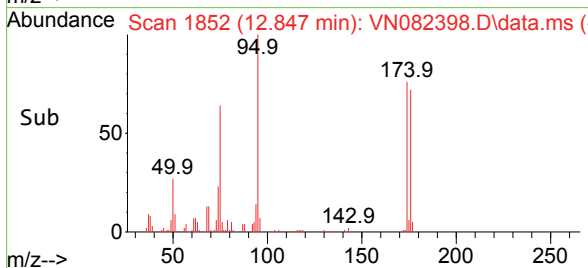
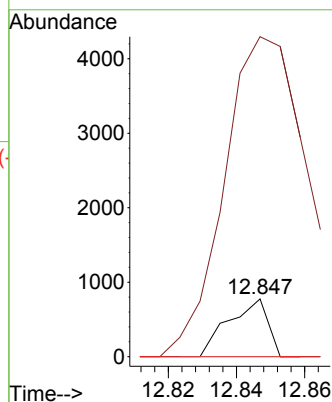
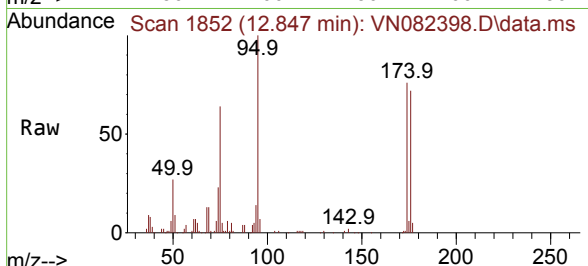




#71
Bromoform
Concen: 1.101 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.271 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

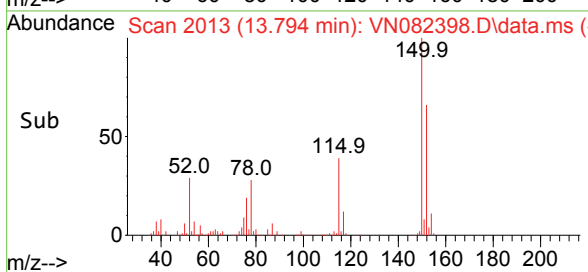
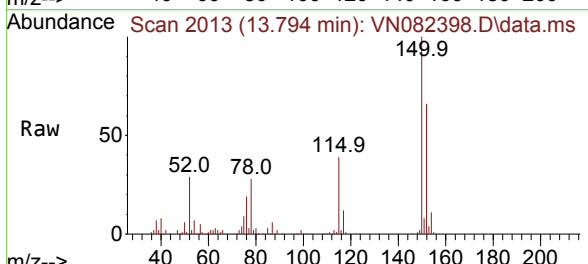
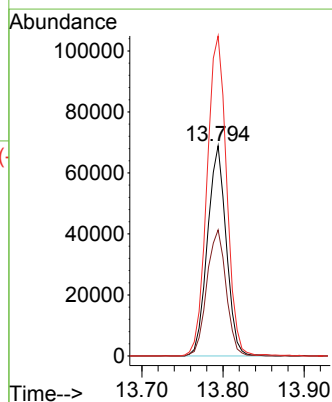
Instrument :
MSVOA_N
ClientSampleId :
VN0531MBL01

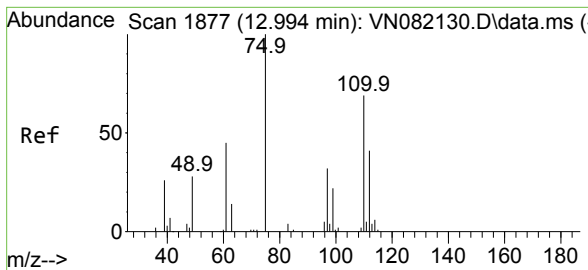
Tgt Ion:173 Resp: 620
Ion Ratio Lower Upper
173 100
175 865.8 24.6 74.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

Tgt Ion:152 Resp: 110474
Ion Ratio Lower Upper
152 100
115 61.6 30.4 91.3
150 159.8 0.0 353.2

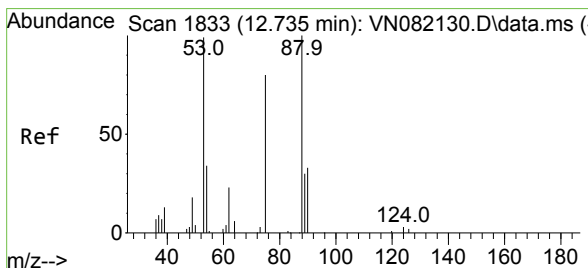
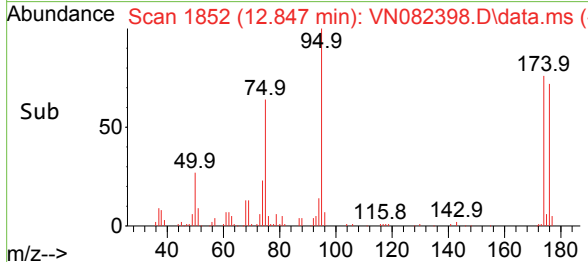
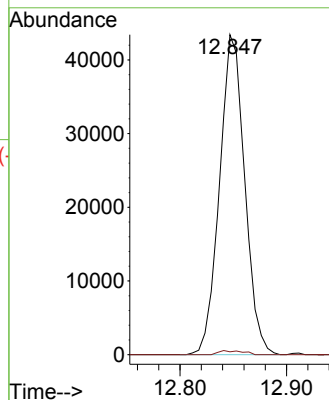
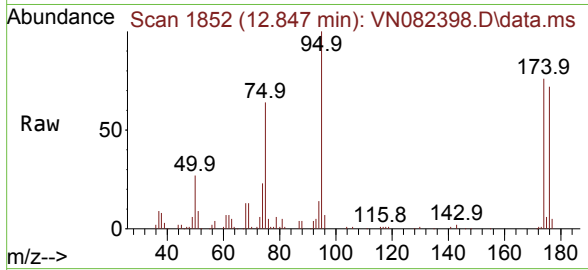




#76
1,2,3-Trichloropropane
Concen: 30.616 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

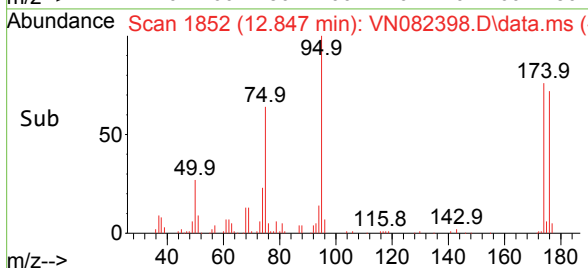
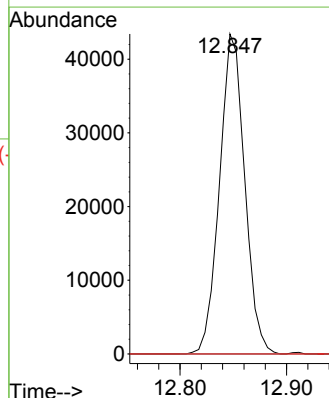
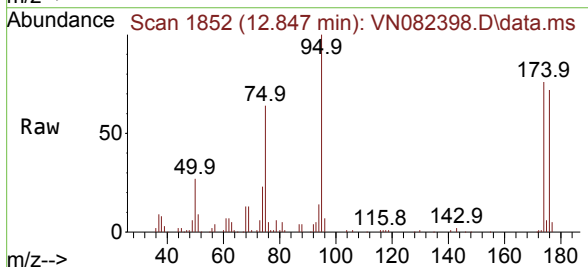
Instrument :
MSVOA_N
ClientSampleId :
VN0531MBL01

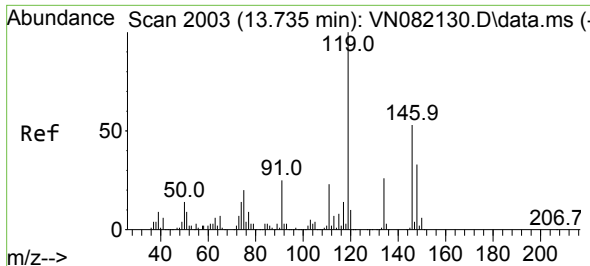
Tgt Ion: 75 Resp: 71190
Ion Ratio Lower Upper
75 100
77 1.2 90.5 271.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 71.611 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

Tgt Ion: 75 Resp: 71190
Ion Ratio Lower Upper
75 100
53 0.0 72.9 109.3#
89 0.0 39.1 58.7#

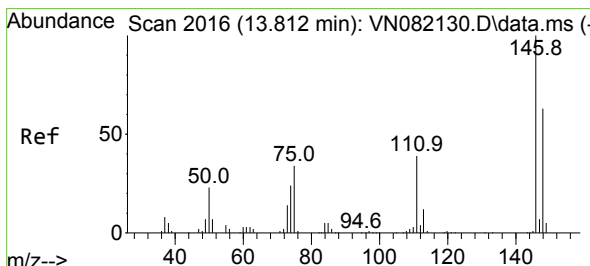
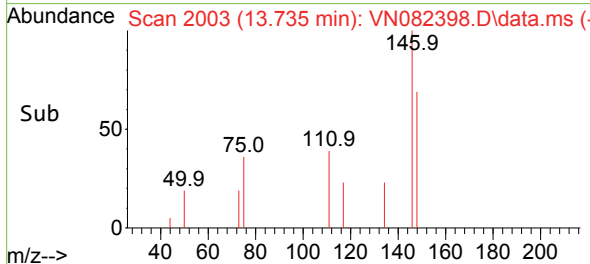
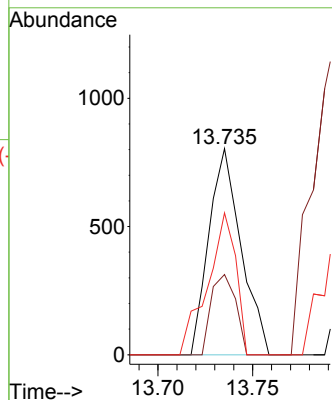
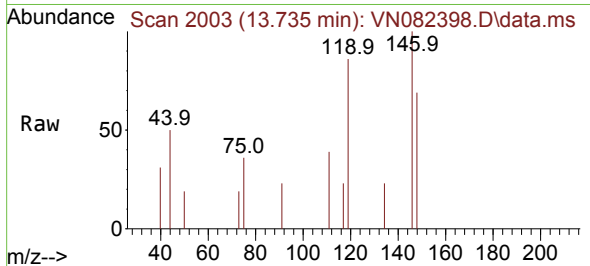




#87
1,3-Dichlorobenzene
Concen: 0.251 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.000 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

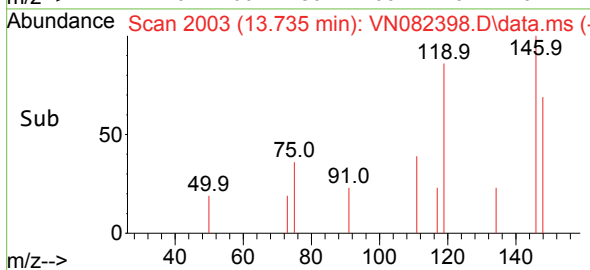
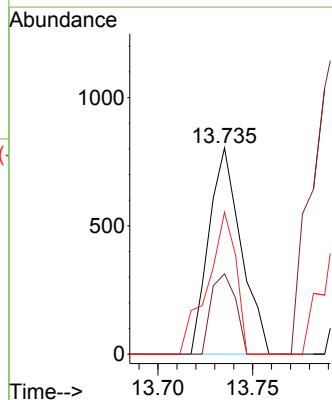
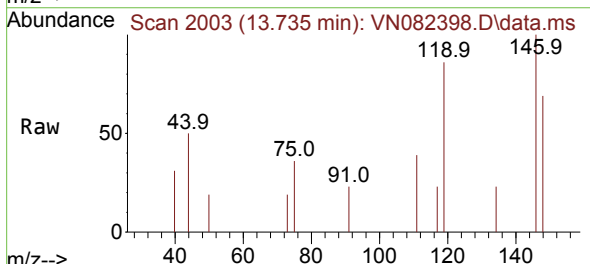
Instrument :
MSVOA_N
ClientSampleId :
VN0531MBL01

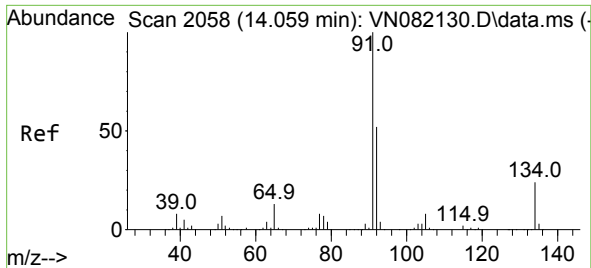
Tgt Ion:146 Resp: 951
Ion Ratio Lower Upper
146 100
111 29.5 20.8 62.5
148 60.7 32.1 96.3



#88
1,4-Dichlorobenzene
Concen: 0.246 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.077 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

Tgt Ion:146 Resp: 951
Ion Ratio Lower Upper
146 100
111 29.5 19.3 57.9
148 60.7 31.3 93.9

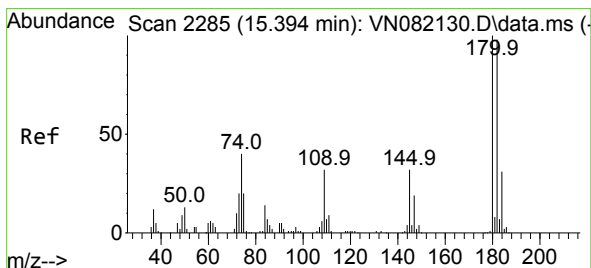
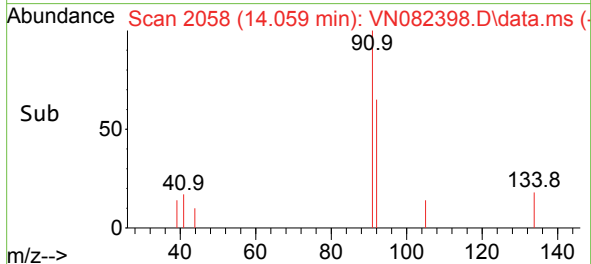
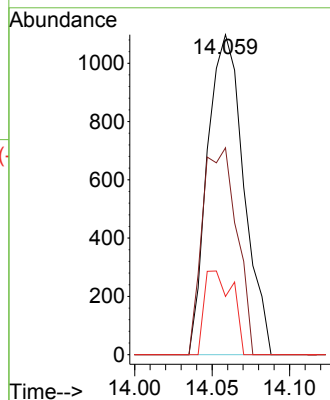
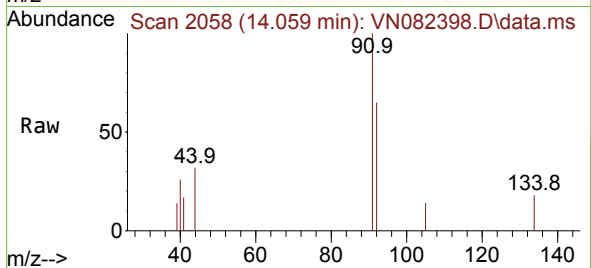




#89
n-Butylbenzene
Concen: 0.285 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. -0.000 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

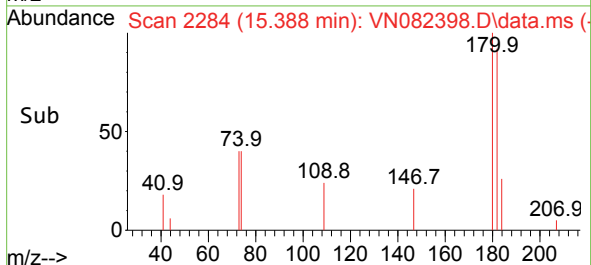
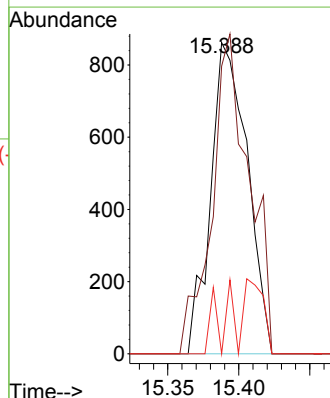
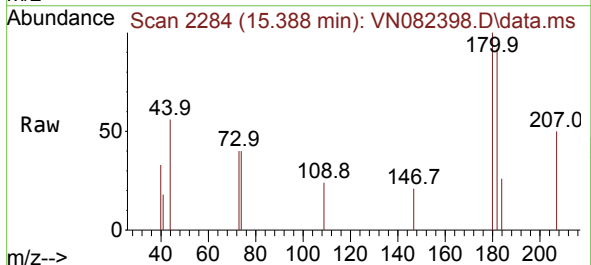
Instrument :
MSVOA_N
ClientSampleId :
VN0531MBL01

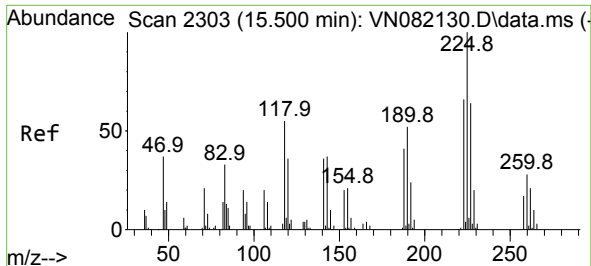
Tgt Ion:	91	Resp:	1789
Ion	Ratio	Lower	Upper
91	100		
92	61.0	26.2	78.5
134	20.2	13.2	39.5



#93
1,2,4-Trichlorobenzene
Concen: 0.770 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. -0.006 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

Tgt Ion:	180	Resp:	1549
Ion	Ratio	Lower	Upper
180	100		
182	103.9	46.7	140.0
145	4.2	16.2	48.6

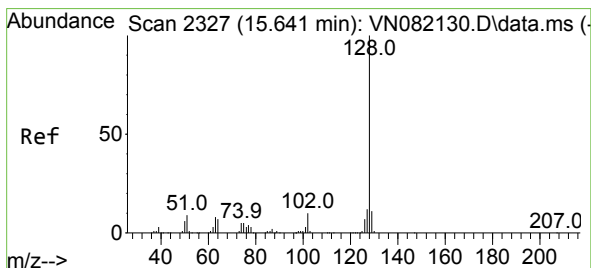
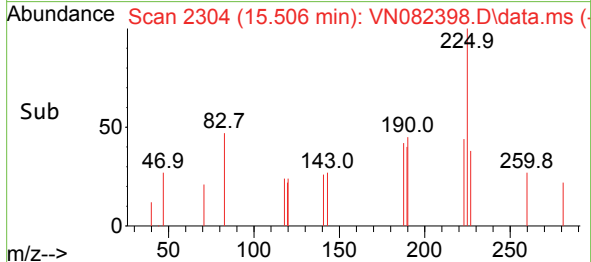
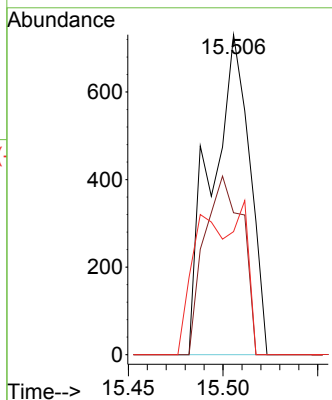
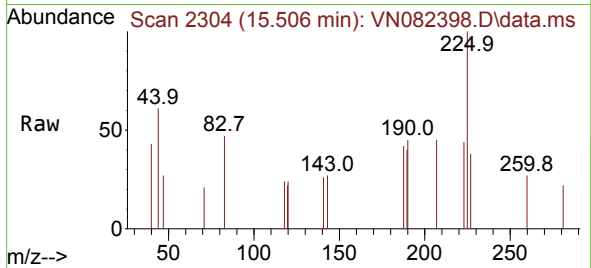




#94
Hexachlorobutadiene
Concen: 1.162 ug/l
RT: 15.506 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

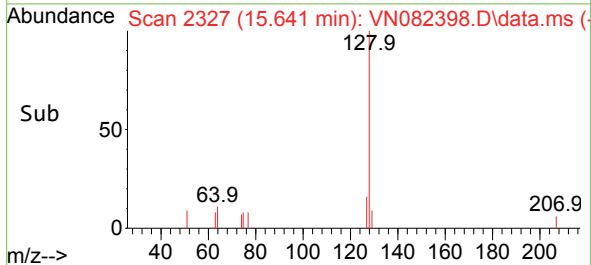
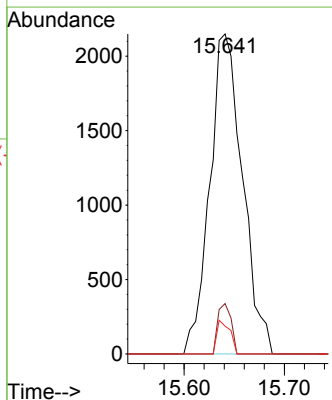
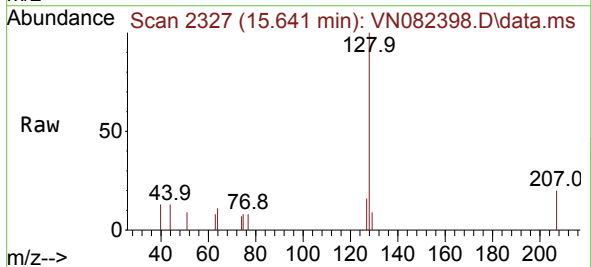
Instrument :
MSVOA_N
ClientSampleId :
VN0531MBL01

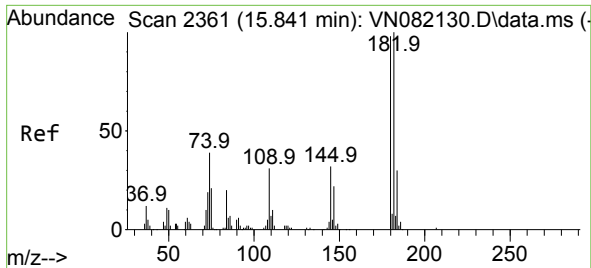
Tgt Ion:225 Resp: 1025
Ion Ratio Lower Upper
225 100
223 55.6 31.1 93.2
227 58.4 30.6 91.6



#95
Naphthalene
Concen: 0.774 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN082398.D
Acq: 31 May 2024 11:00

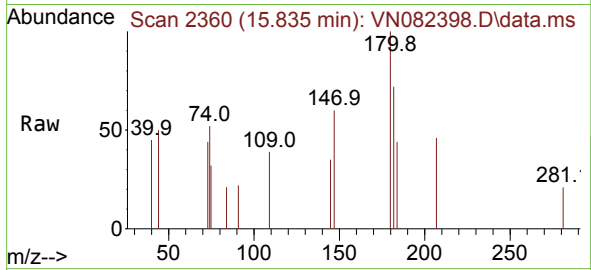
Tgt Ion:128 Resp: 4877
Ion Ratio Lower Upper
128 100
127 6.4 10.1 15.1#
129 4.1 8.9 13.3#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.832 ug/l
 RT: 15.835 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN082398.D
 Acq: 31 May 2024 11:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0531MBL01



Tgt Ion:	180	Resp:	1675
Ion	Ratio	Lower	Upper
180	100		
182	46.5	46.0	137.8
145	31.5	17.1	51.3

