

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042924\
 Data File : VN081911.D
 Acq On : 29 Apr 2024 13:56
 Operator : JC\MD
 Sample : P2288-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 30 04:36:56 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 27 04:37:27 2024
 Response via : Initial Calibration

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

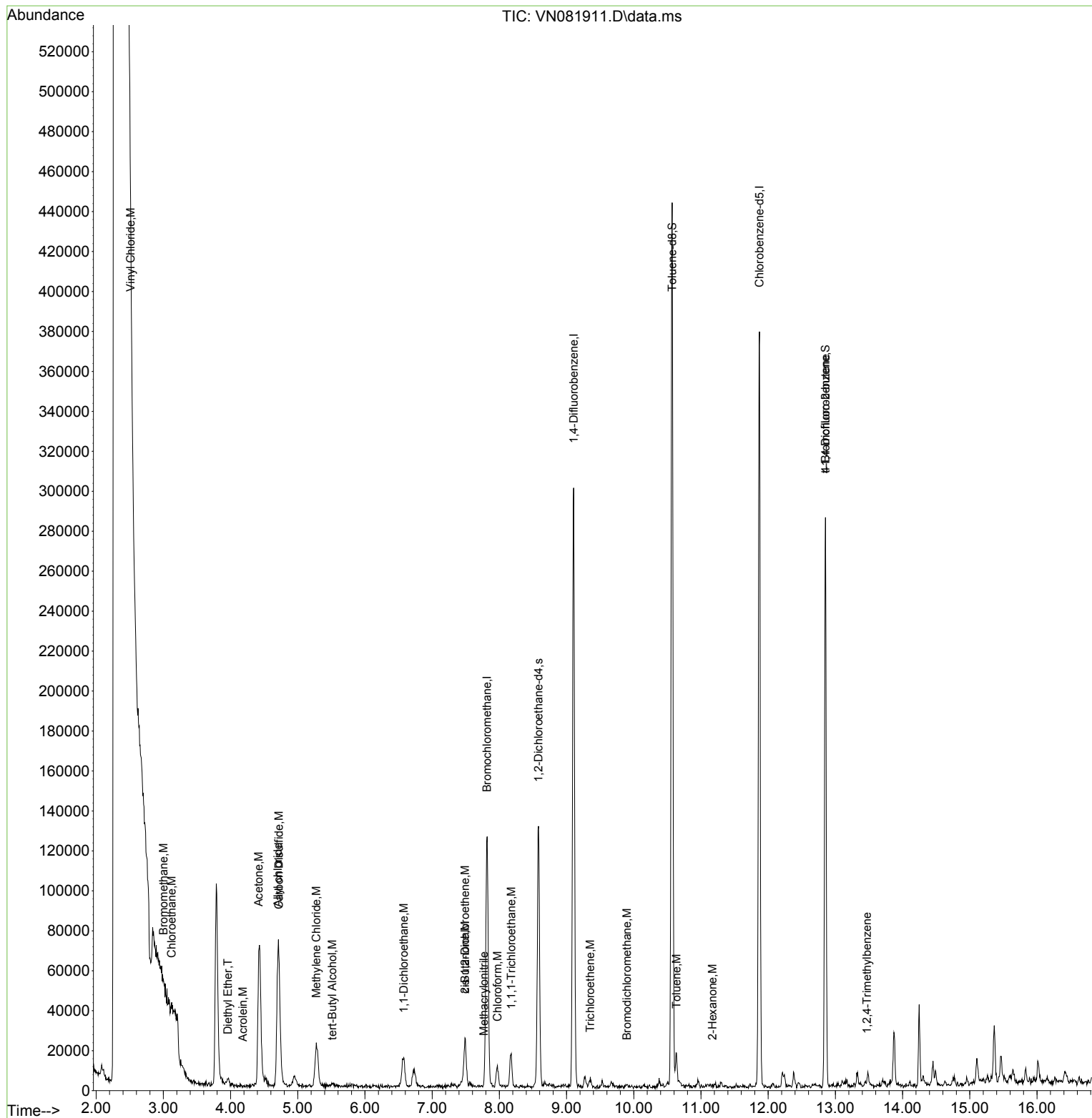
Internal Standards						
1) Bromochloromethane	7.818	128	42154	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	252832	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	211049	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	104293	29.550	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.500%
60) 4-Bromofluorobenzene	12.853	95	101024	28.763	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.867%
63) Toluene-d8	10.571	98	304442	30.375	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.267%
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.512	62	2498	0.953	ug/l #	1
5) Bromomethane	3.000	94	382	0.279	ug/l	94
6) Chloroethane	3.124	64	1992	1.342	ug/l #	46
8) Diethyl Ether	3.959	74	819	0.441	ug/l	62
13) Acrolein	4.183	56	158	0.231	ug/l #	80
15) Acetone	4.418	58	22374	67.911	ug/l	80
16) Carbon Disulfide	4.718	76	2510	0.352	ug/l #	80
17) Allyl chloride	4.706	41	9190	2.035	ug/l	77
18) Methylene Chloride	5.277	84	2556	0.873	ug/l #	83
21) 1,1-Dichloroethane	6.577	63	22705	4.291	ug/l	93
22) cis-1,2-Dichloroethene	7.488	96	10320	3.162	ug/l	94
23) tert-Butyl Alcohol	5.512	59	916	1.513	ug/l #	100
25) Chloroform	7.971	83	9353	1.837	ug/l	84
30) 2-Butanone	7.488	43	10198	5.256	ug/l #	78
32) 1,1,1-Trichloroethane	8.177	97	12702	2.934	ug/l #	72
35) Methacrylonitrile	7.771	41	570	0.232	ug/l #	40
37) Trichloroethene	9.353	130	1196	0.407	ug/l	95
41) Bromodichloromethane	9.900	83	1161	0.274	ug/l #	27
59) 2-Hexanone	11.171	43	620	0.204	ug/l #	55
62) Toluene	10.635	91	11740	0.989	ug/l	98
77) t-1,4-Dichloro-2-butene	12.853	75	53105	36.571	ug/l #	12
80) 1,2,4-Trimethylbenzene	13.470	105	2771	0.281	ug/l	73

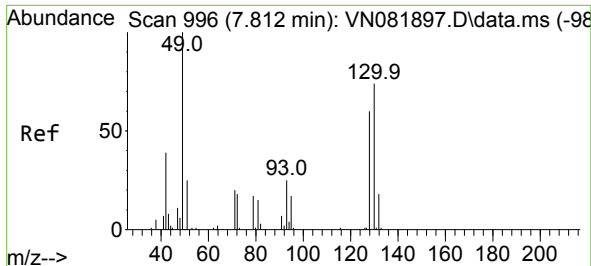
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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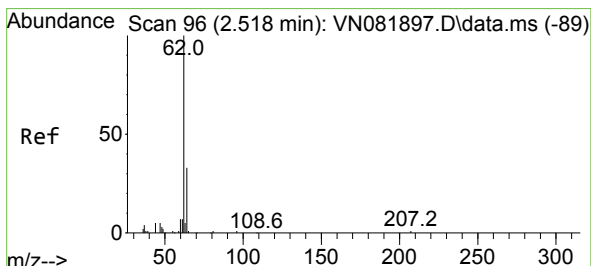
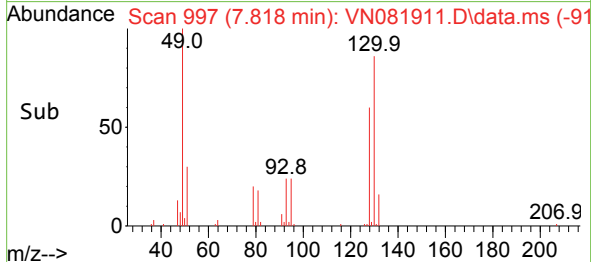
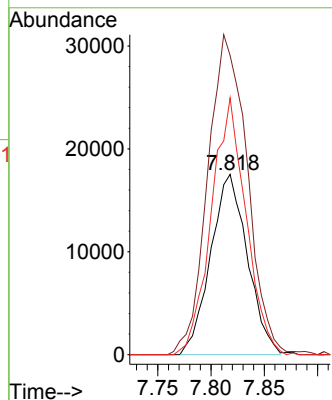
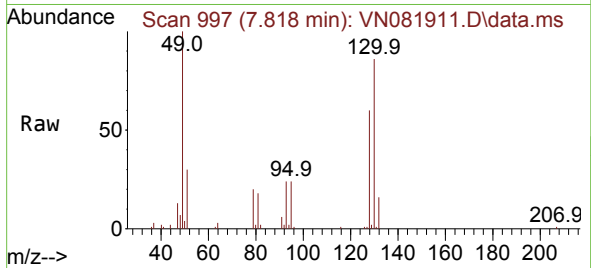




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN081911.D
Acq: 29 Apr 2024 13:56

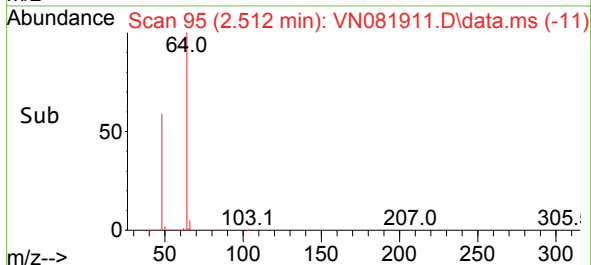
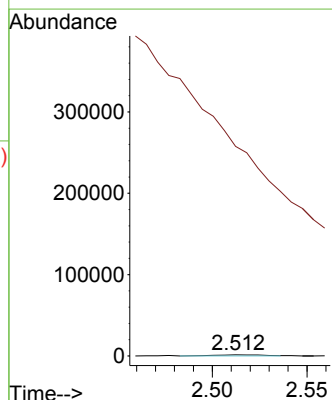
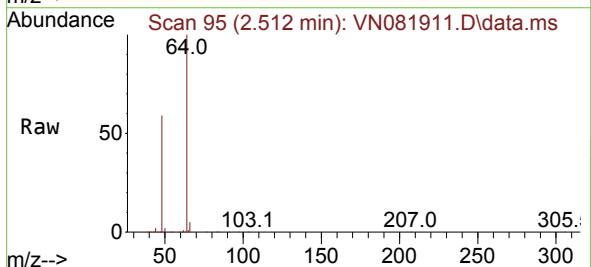
Instrument :
MSVOA_N
ClientSampleId :

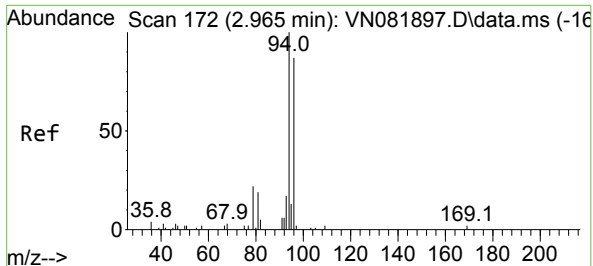
Tgt Ion:128 Resp: 42154
Ion Ratio Lower Upper
128 100
49 189.4 0.0 403.7
130 134.1 0.0 323.3



#4
Vinyl Chloride
Concen: 0.953 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.006 min
Lab File: VN081911.D
Acq: 29 Apr 2024 13:56

Tgt Ion: 62 Resp: 2498
Ion Ratio Lower Upper
62 100
64 4150.6 24.1 36.1#





#5

Bromomethane

Concen: 0.279 ug/l

RT: 3.000 min Scan# 1

Delta R.T. 0.035 min

Lab File: VN081911.D

Acq: 29 Apr 2024 13:56

Instrument :

MSVOA_N

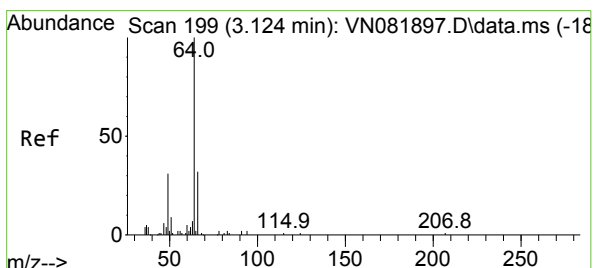
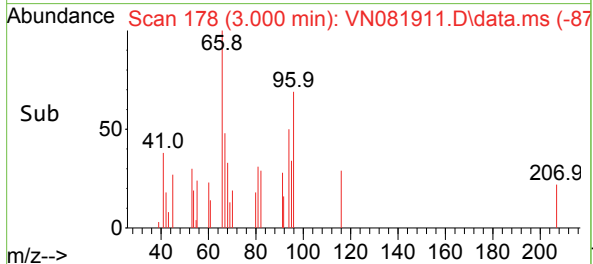
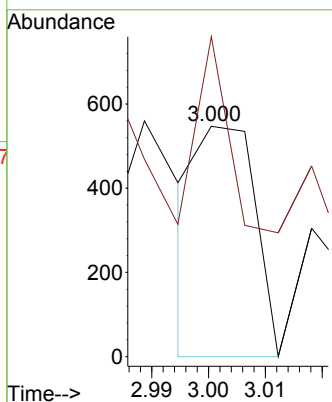
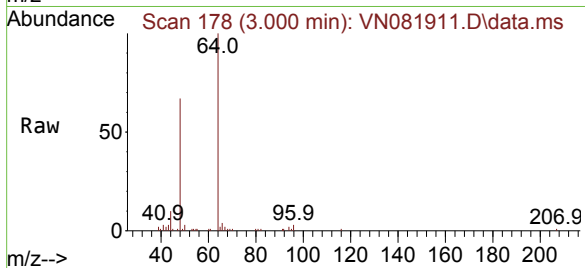
ClientSampleId :

Tgt Ion: 94 Resp: 382

Ion Ratio Lower Upper

94 100

96 85.2 72.8 109.2



#6

Chloroethane

Concen: 1.342 ug/l

RT: 3.124 min Scan# 199

Delta R.T. -0.000 min

Lab File: VN081911.D

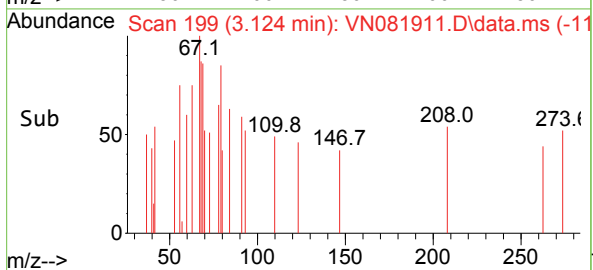
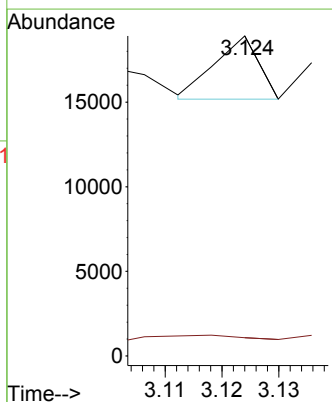
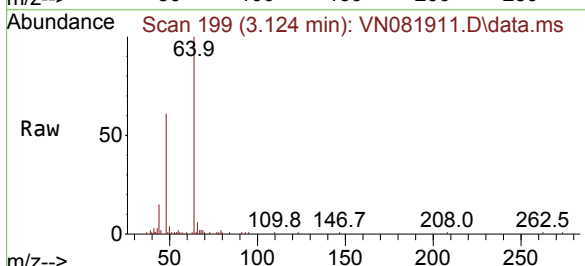
Acq: 29 Apr 2024 13:56

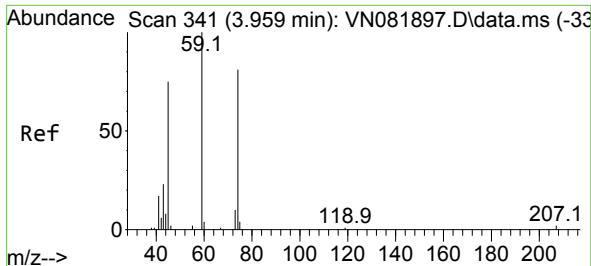
Tgt Ion: 64 Resp: 1992

Ion Ratio Lower Upper

64 100

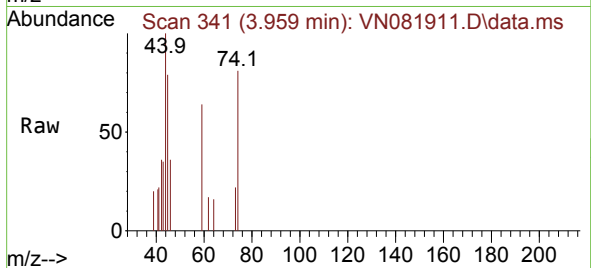
66 2.9 26.7 40.1#



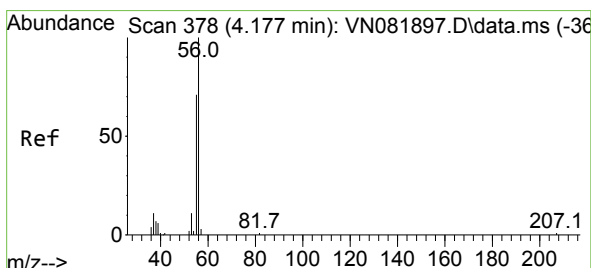
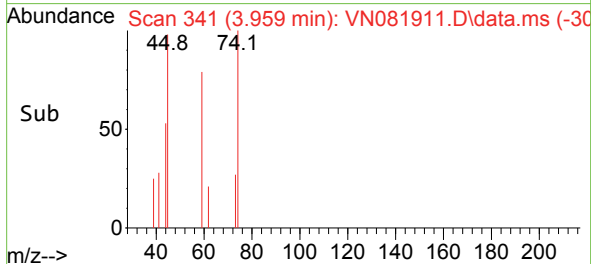
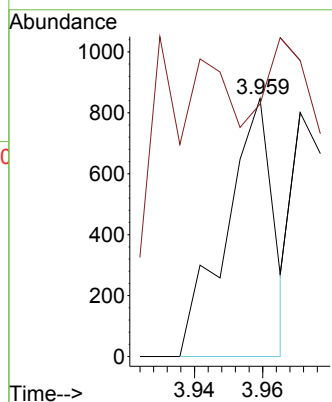


#8
Diethyl Ether
Concen: 0.441 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN081911.D
Acq: 29 Apr 2024 13:56

Instrument :
MSVOA_N
ClientSampleId :

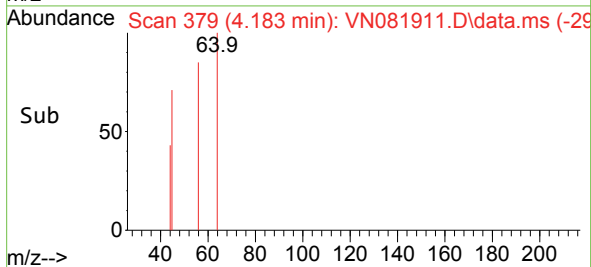
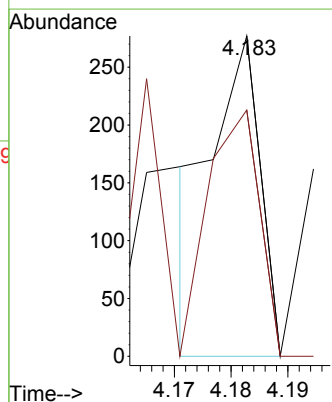
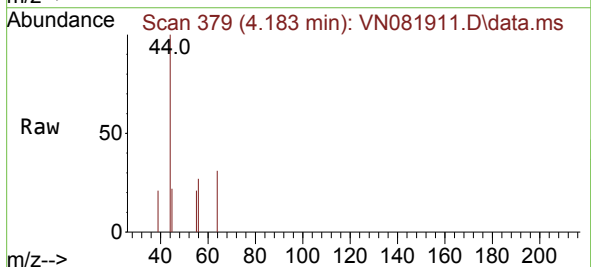


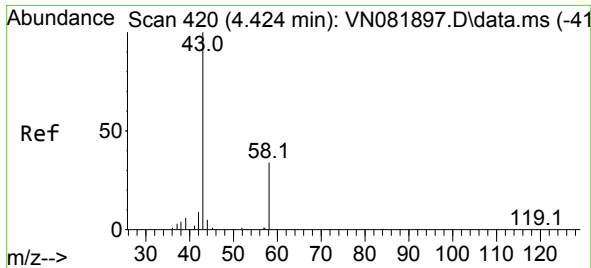
Tgt Ion: 74 Resp: 819
Ion Ratio Lower Upper
74 100
45 48.1 16.4 147.4



#13
Acrolein
Concen: 0.231 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN081911.D
Acq: 29 Apr 2024 13:56

Tgt Ion: 56 Resp: 158
Ion Ratio Lower Upper
56 100
55 86.1 55.5 83.3#





#15

Acetone

Concen: 67.911 ug/l

RT: 4.418 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN081911.D

Acq: 29 Apr 2024 13:56

Instrument :

MSVOA_N

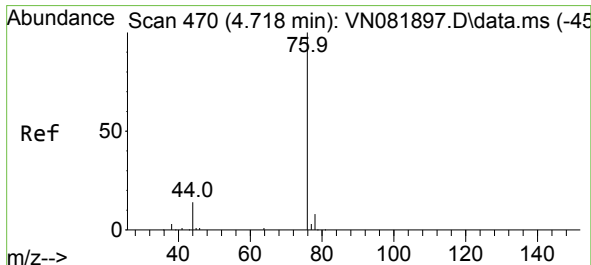
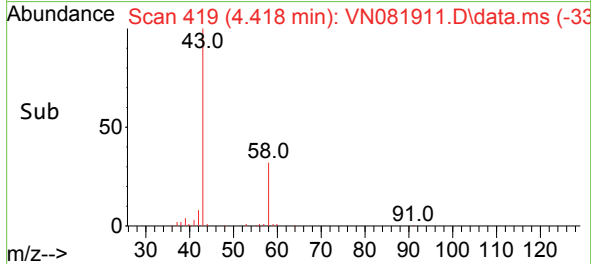
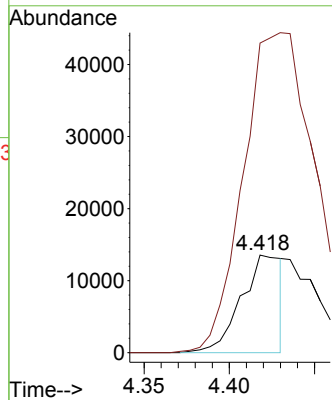
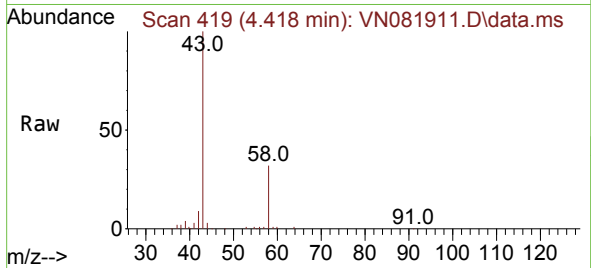
ClientSampleId :

Tgt Ion: 58 Resp: 22374

Ion Ratio Lower Upper

58 100

43 315.7 223.1 334.7



#16

Carbon Disulfide

Concen: 0.352 ug/l

RT: 4.718 min Scan# 470

Delta R.T. -0.000 min

Lab File: VN081911.D

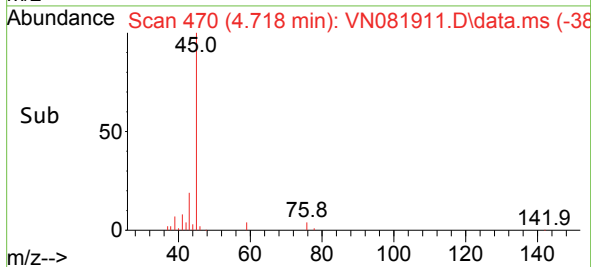
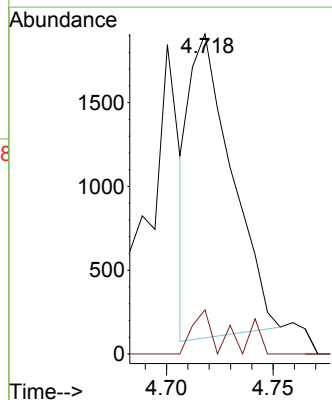
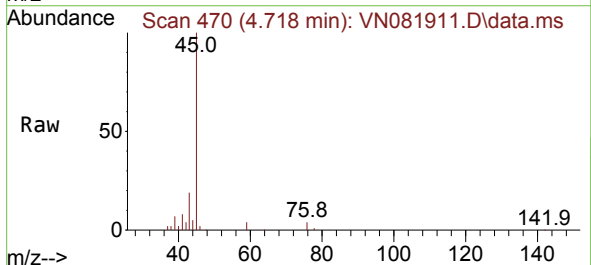
Acq: 29 Apr 2024 13:56

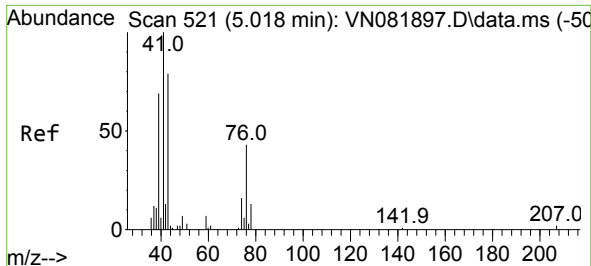
Tgt Ion: 76 Resp: 2510

Ion Ratio Lower Upper

76 100

78 15.1 6.3 9.5#





#17

Allyl chloride

Concen: 2.035 ug/l

RT: 4.706 min Scan# 4

Delta R.T. -0.312 min

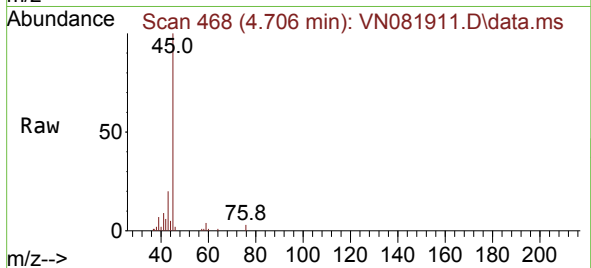
Lab File: VN081911.D

Acq: 29 Apr 2024 13:56

Instrument :

MSVOA_N

ClientSampleId :



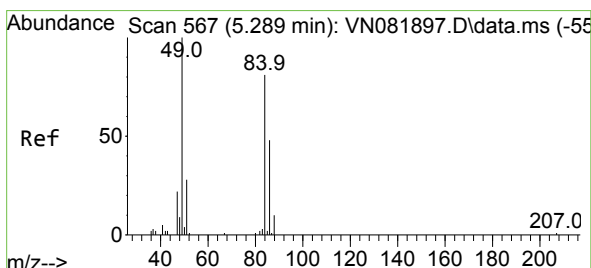
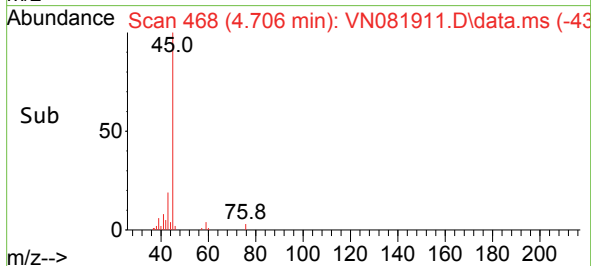
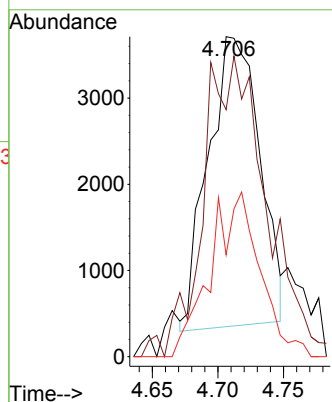
Tgt Ion: 41 Resp: 9190

Ion Ratio Lower Upper

41 100

39 64.3 37.6 112.9

76 28.9 27.8 83.4



#18

Methylene Chloride

Concen: 0.873 ug/l

RT: 5.277 min Scan# 565

Delta R.T. -0.012 min

Lab File: VN081911.D

Acq: 29 Apr 2024 13:56

Tgt Ion: 84 Resp: 2556

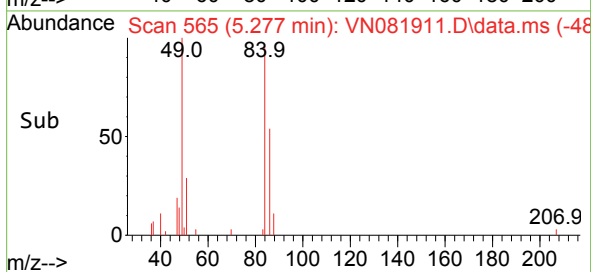
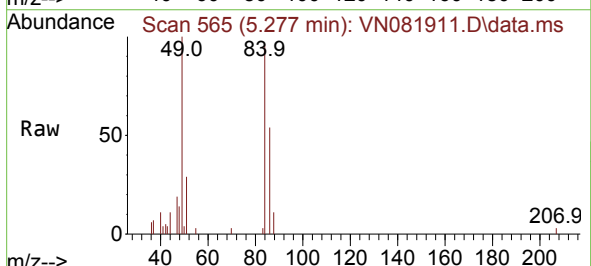
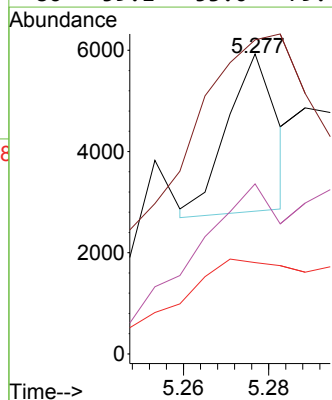
Ion Ratio Lower Upper

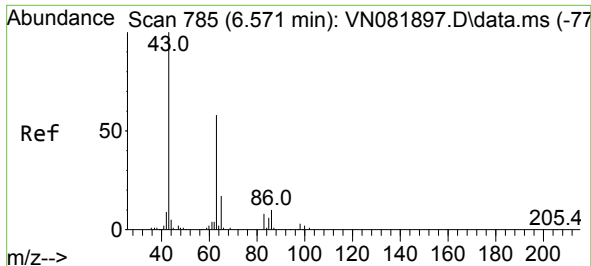
84 100

49 84.8 86.0 129.0#

51 26.7 30.0 45.0#

86 59.1 53.0 79.4





#21

1,1-Dichloroethane

Concen: 4.291 ug/l

RT: 6.577 min Scan# 71

Delta R.T. 0.006 min

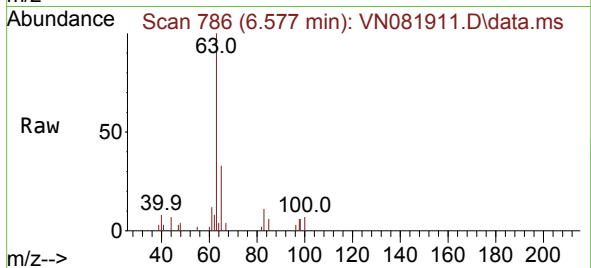
Lab File: VN081911.D

Acq: 29 Apr 2024 13:56

Instrument :

MSVOA_N

ClientSampleId :



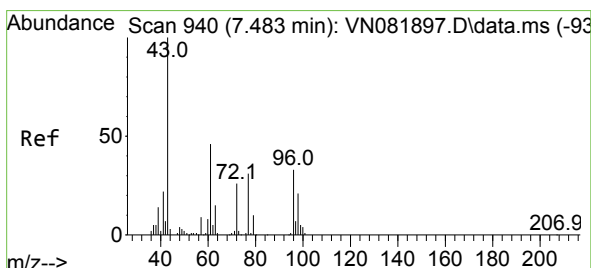
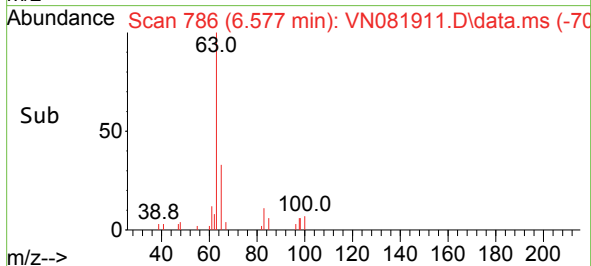
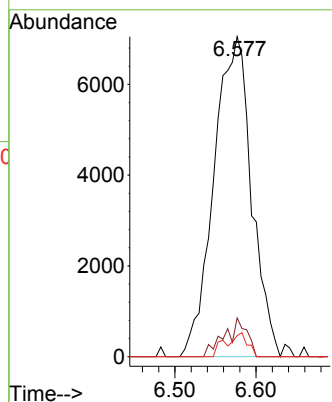
Tgt Ion: 63 Resp: 22705

Ion Ratio Lower Upper

63 100

98 12.1 4.1 12.3

100 6.6 3.0 9.0



#22

cis-1,2-Dichloroethene

Concen: 3.162 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN081911.D

Acq: 29 Apr 2024 13:56

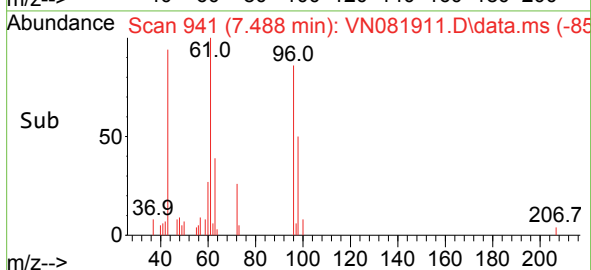
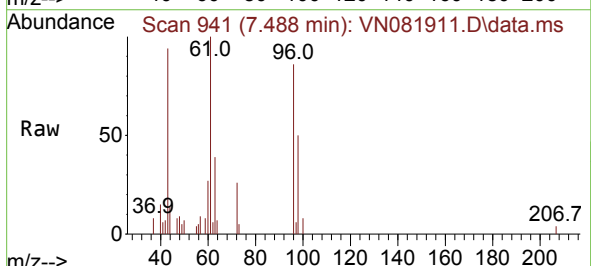
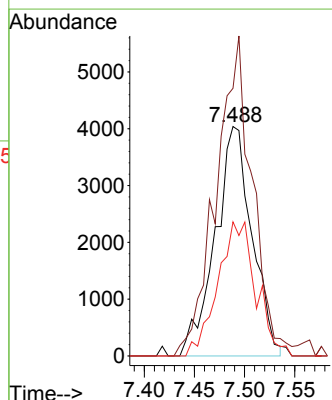
Tgt Ion: 96 Resp: 10320

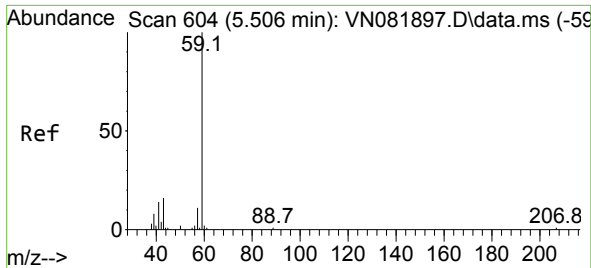
Ion Ratio Lower Upper

96 100

61 135.5 113.5 170.3

98 59.9 52.0 78.0

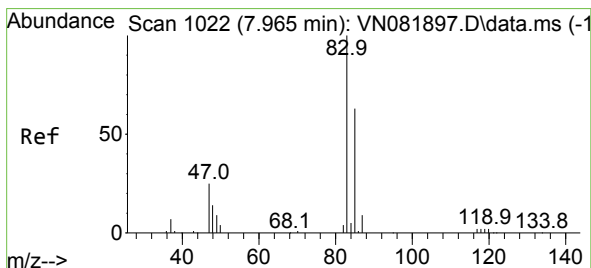
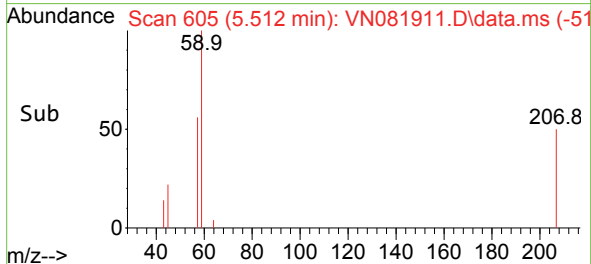
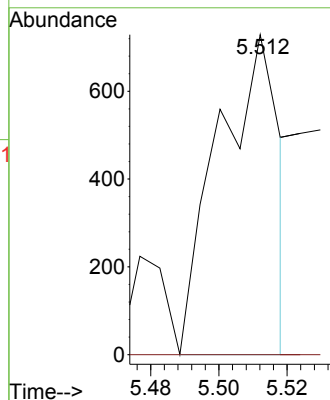
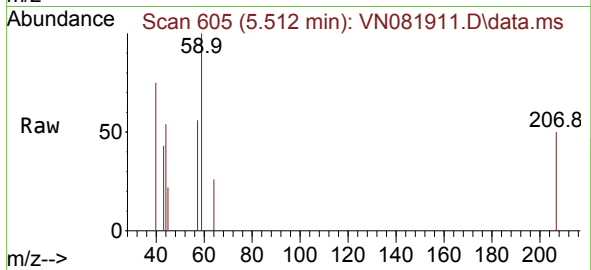




#23
tert-Butyl Alcohol
Concen: 1.513 ug/l
RT: 5.512 min Scan# 604
Delta R.T. 0.006 min
Lab File: VN081911.D
Acq: 29 Apr 2024 13:56

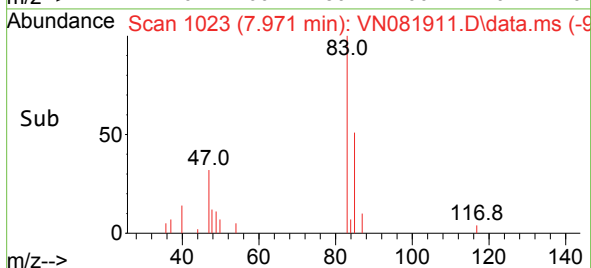
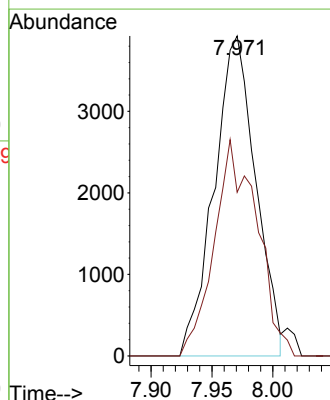
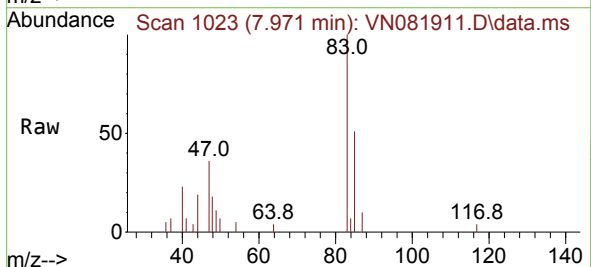
Instrument :
MSVOA_N
ClientSampleId :

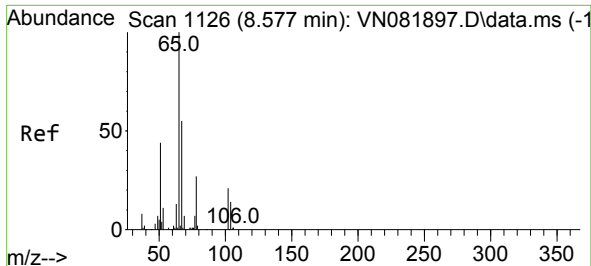
Tgt Ion: 59 Resp: 916
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 1.837 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.006 min
Lab File: VN081911.D
Acq: 29 Apr 2024 13:56

Tgt Ion: 83 Resp: 9353
Ion Ratio Lower Upper
83 100
85 51.1 50.9 76.3





#27

1,2-Dichloroethane-d4

Concen: 29.550 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN081911.D

Acq: 29 Apr 2024 13:56

Instrument :

MSVOA_N

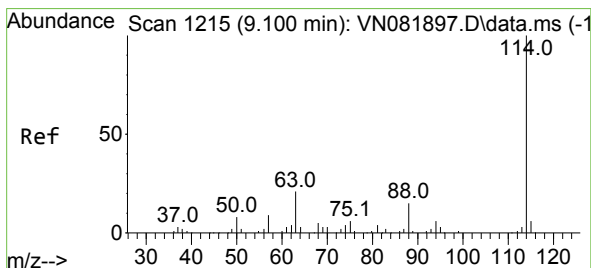
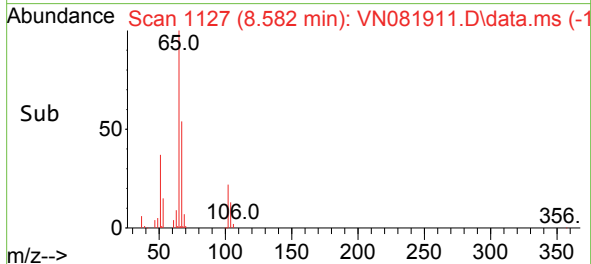
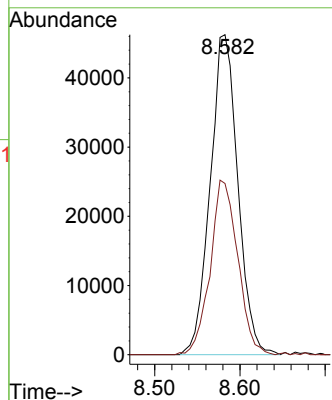
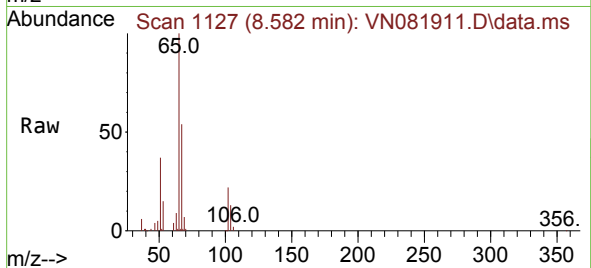
ClientSampleId :

Tgt Ion: 65 Resp: 104293

Ion Ratio Lower Upper

65 100

67 54.3 43.2 64.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN081911.D

Acq: 29 Apr 2024 13:56

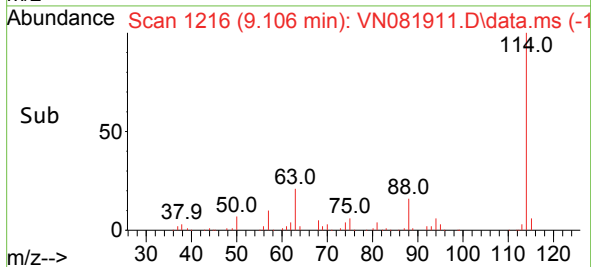
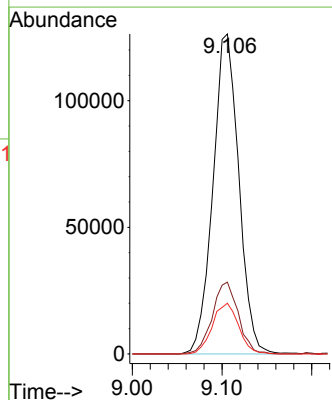
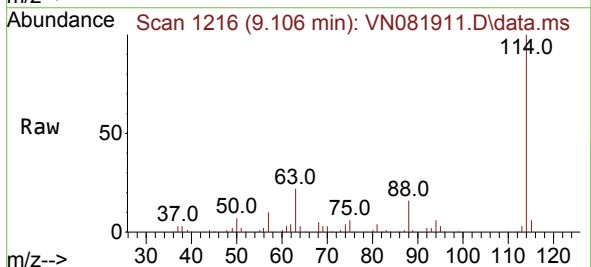
Tgt Ion: 114 Resp: 252832

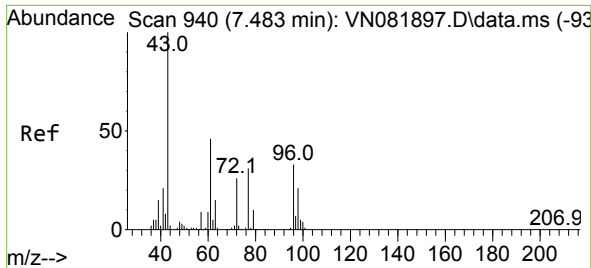
Ion Ratio Lower Upper

114 100

63 22.6 15.9 23.9

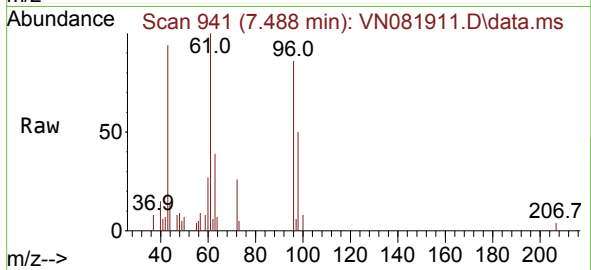
88 16.1 12.7 19.1



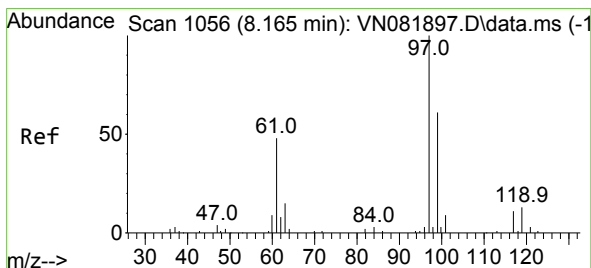
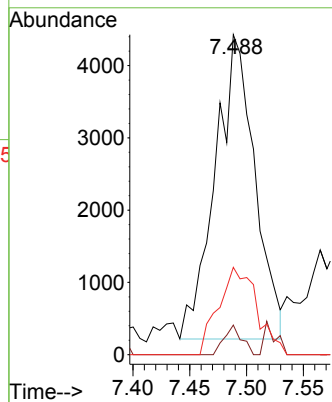
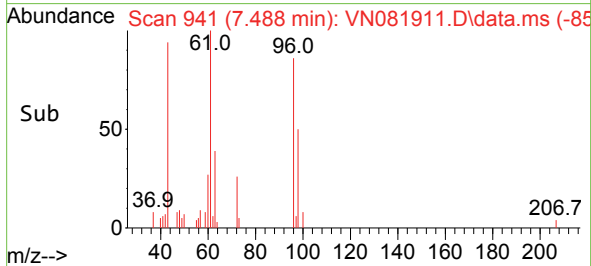


#30
2-Butanone
Concen: 5.256 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN081911.D
Acq: 29 Apr 2024 13:56

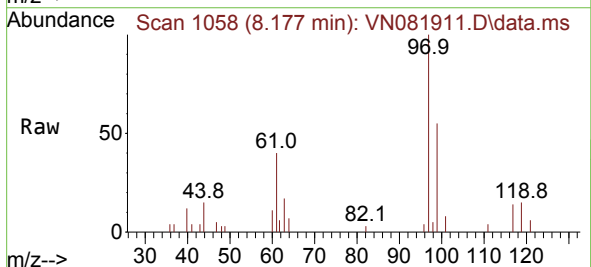
Instrument :
MSVOA_N
ClientSampleId :



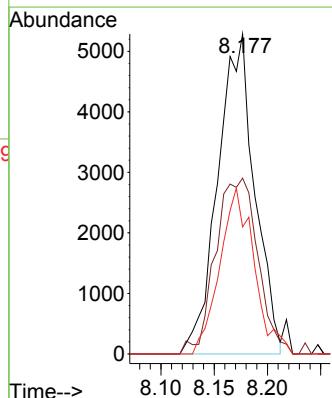
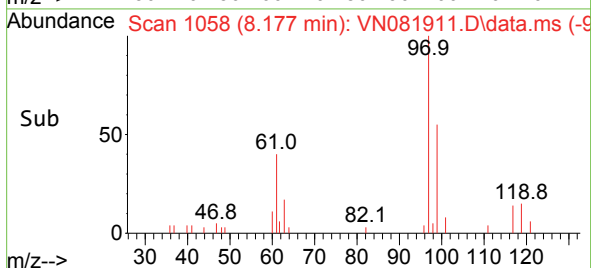
Tgt Ion: 43 Resp: 10198
Ion Ratio Lower Upper
43 100
57 4.3 6.7 10.1#
72 16.7 24.0 36.0#

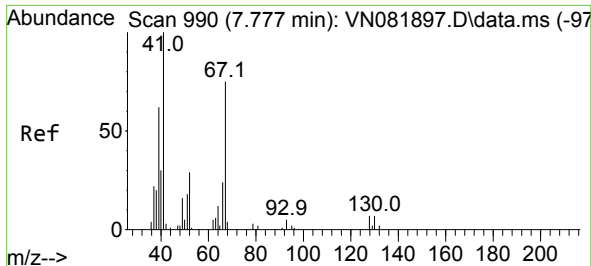


#32
1,1,1-Trichloroethane
Concen: 2.934 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.012 min
Lab File: VN081911.D
Acq: 29 Apr 2024 13:56



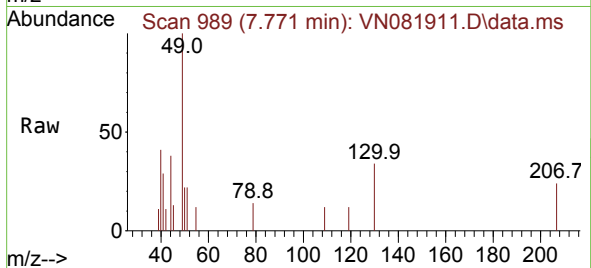
Tgt Ion: 97 Resp: 12702
Ion Ratio Lower Upper
97 100
99 30.9 51.0 76.4#
61 45.9 33.8 50.8



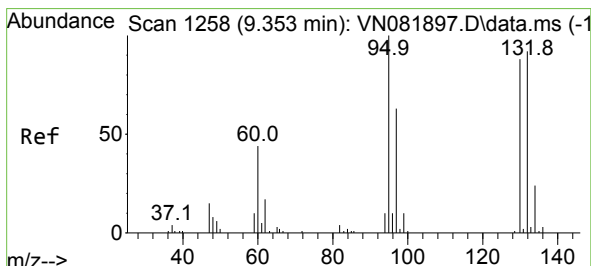
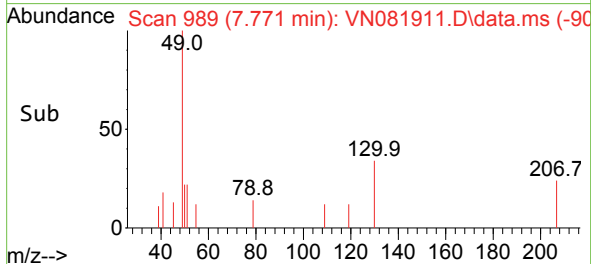
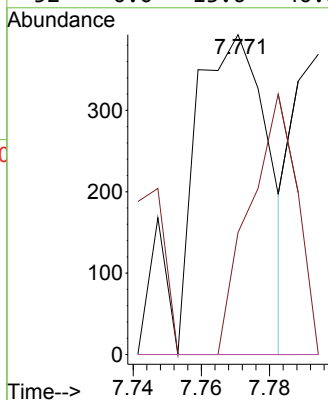


#35
Methacrylonitrile
Concen: 0.232 ug/l
RT: 7.771 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN081911.D
Acq: 29 Apr 2024 13:56

Instrument :
MSVOA_N
ClientSampleId :

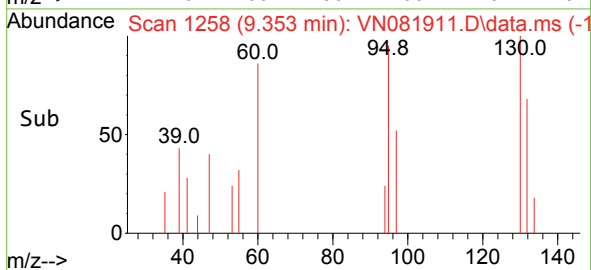
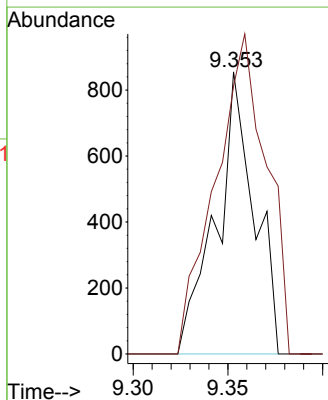
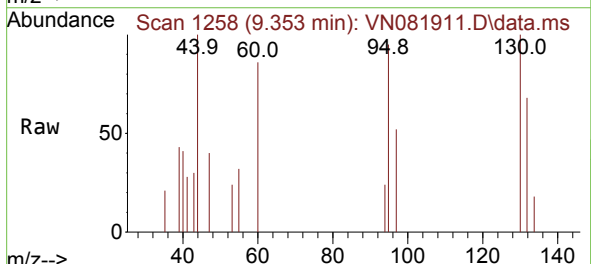


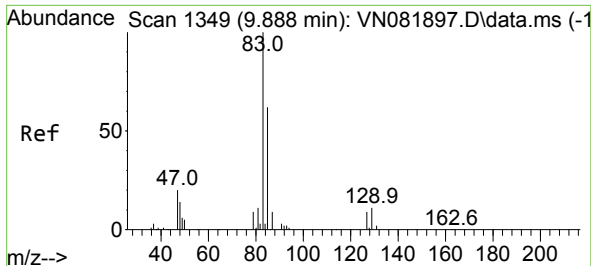
Tgt Ion:	41	Resp:	570
Ion Ratio	Lower	Upper	
41	100		
39	38.2	25.3	75.9
67	0.0	38.7	116.1#
52	0.0	13.6	40.8#



#37
Trichloroethene
Concen: 0.407 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN081911.D
Acq: 29 Apr 2024 13:56

Tgt Ion:	130	Resp:	1196
Ion Ratio	Lower	Upper	
130	100		
95	95.0	80.2	120.4

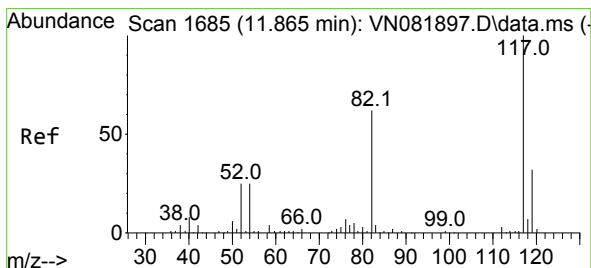
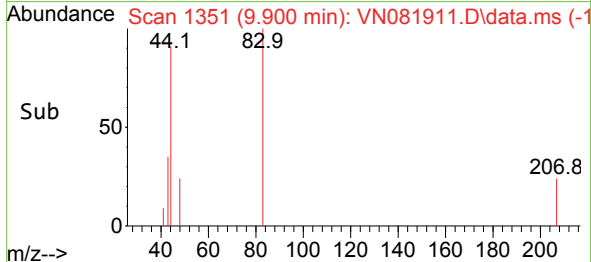
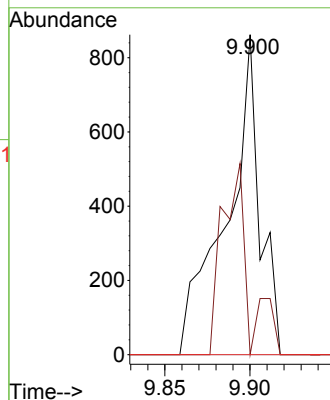
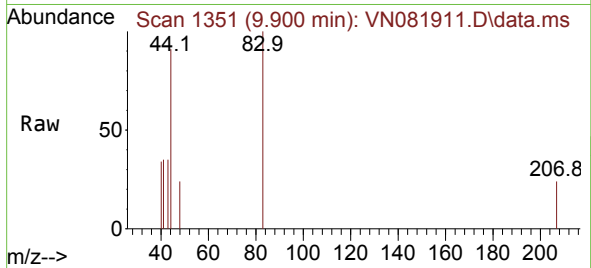




#41
Bromodichloromethane
Concen: 0.274 ug/l
RT: 9.900 min Scan# 1161
Delta R.T. 0.012 min
Lab File: VN081911.D
Acq: 29 Apr 2024 13:56

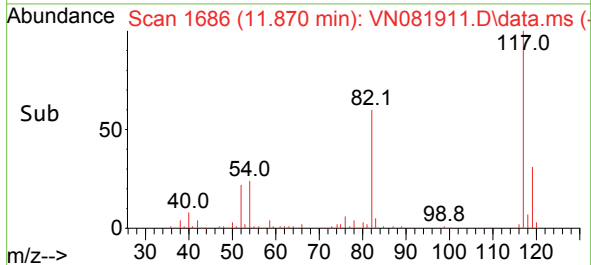
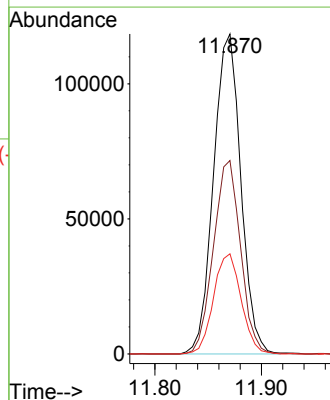
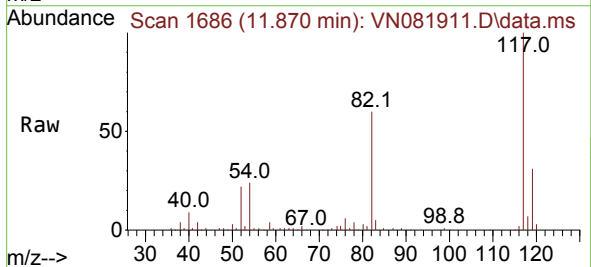
Instrument :
MSVOA_N
ClientSampleId :

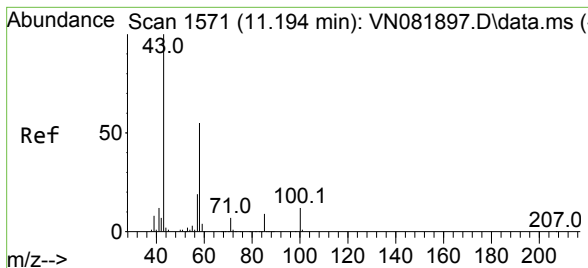
Tgt Ion: 83 Resp: 1161
Ion Ratio Lower Upper
83 100
85 0.0 49.4 74.2#
127 0.0 7.3 10.9#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN081911.D
Acq: 29 Apr 2024 13:56

Tgt Ion: 117 Resp: 211049
Ion Ratio Lower Upper
117 100
82 60.0 46.6 69.8
119 31.7 25.4 38.2





#59

2-Hexanone

Concen: 0.204 ug/l

RT: 11.171 min Scan# 11

Delta R.T. -0.024 min

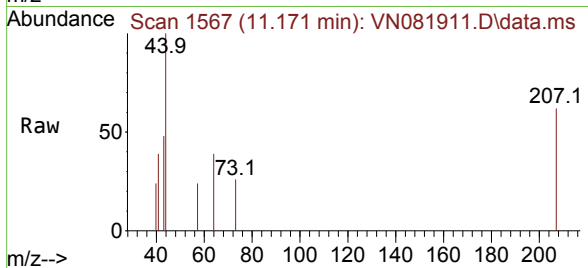
Lab File: VN081911.D

Acq: 29 Apr 2024 13:56

Instrument :

MSVOA_N

ClientSampleId :



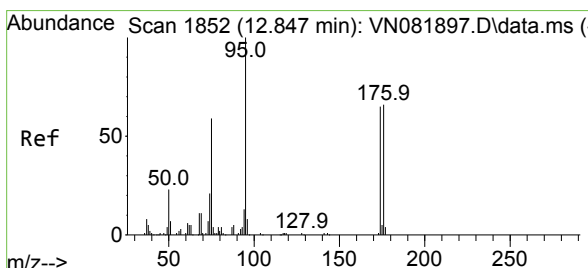
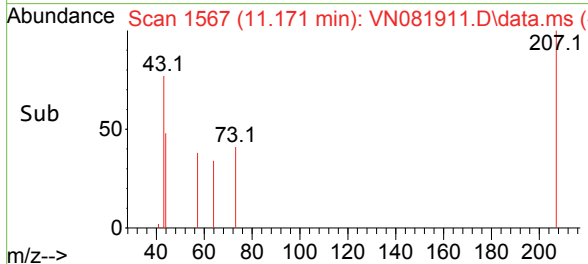
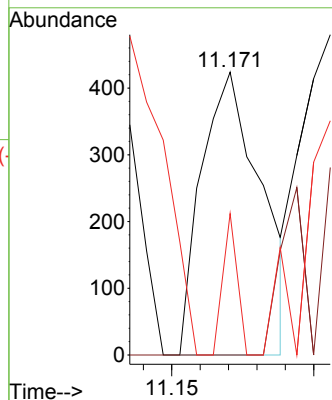
Tgt Ion: 43 Resp: 620

Ion Ratio Lower Upper

43 100

58 23.2 50.4 75.6#

57 9.2 18.6 27.8#



#60

4-Bromofluorobenzene

Concen: 28.763 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.006 min

Lab File: VN081911.D

Acq: 29 Apr 2024 13:56

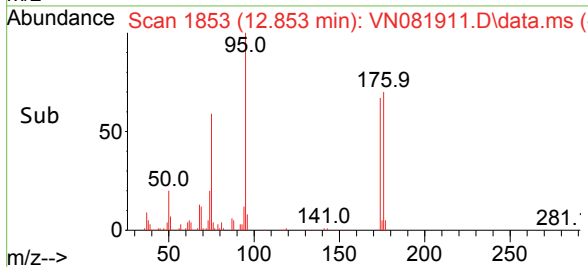
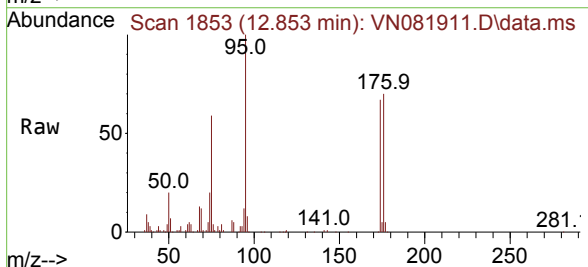
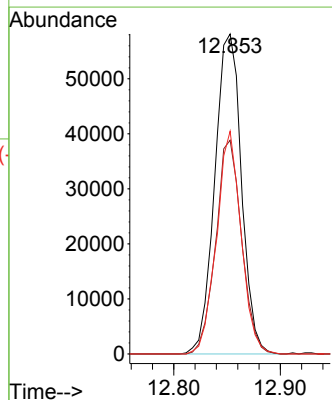
Tgt Ion: 95 Resp: 101024

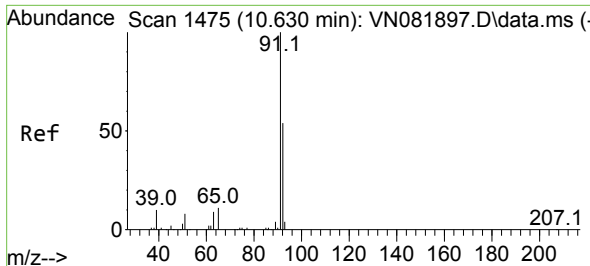
Ion Ratio Lower Upper

95 100

174 64.9 60.5 90.7

176 64.1 57.8 86.6

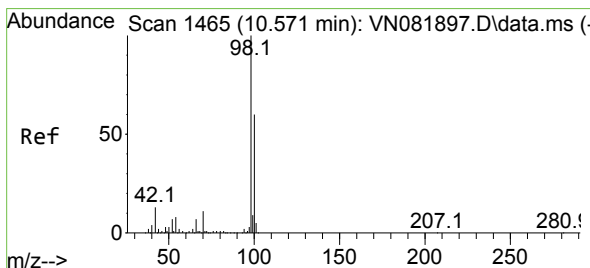
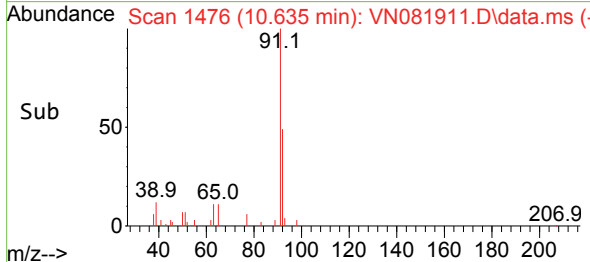
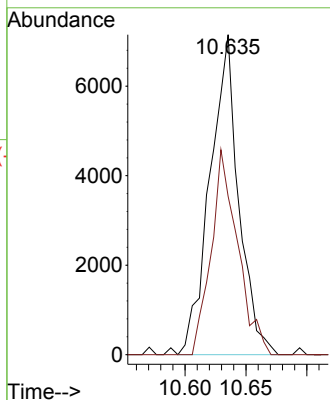
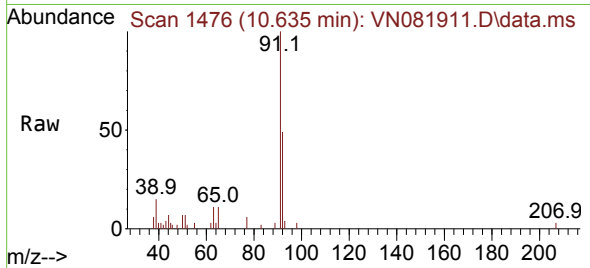




#62
Toluene
Concen: 0.989 ug/l
RT: 10.635 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN081911.D
Acq: 29 Apr 2024 13:56

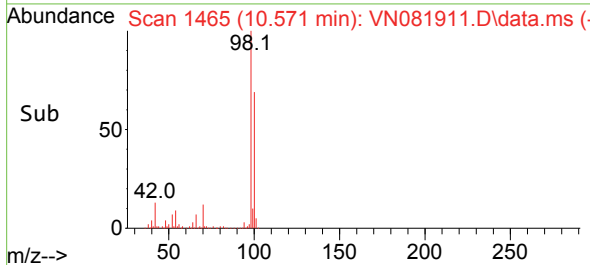
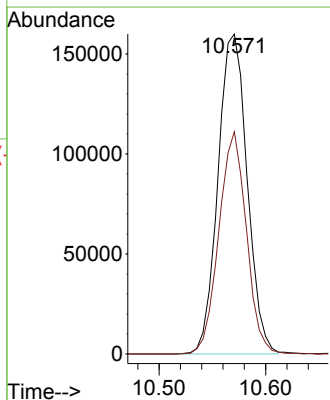
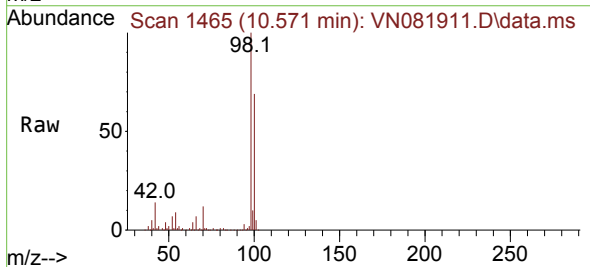
Instrument :
MSVOA_N
ClientSampleId :

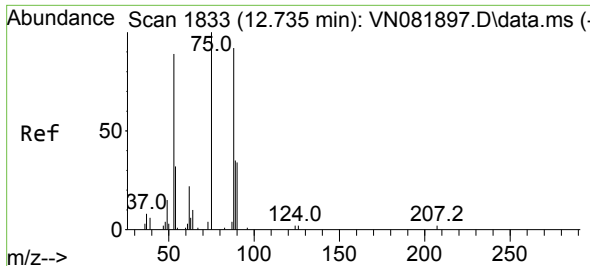
Tgt Ion: 91 Resp: 11740
Ion Ratio Lower Upper
91 100
92 59.2 46.5 69.7



#63
Toluene-d8
Concen: 30.375 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN081911.D
Acq: 29 Apr 2024 13:56

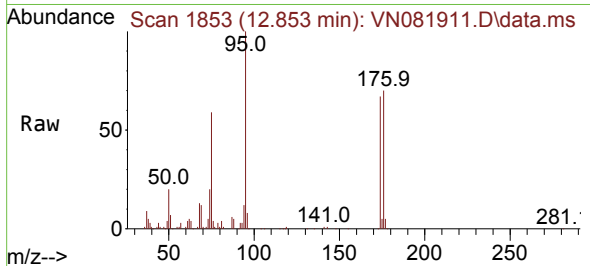
Tgt Ion: 98 Resp: 304442
Ion Ratio Lower Upper
98 100
100 65.6 52.7 79.1



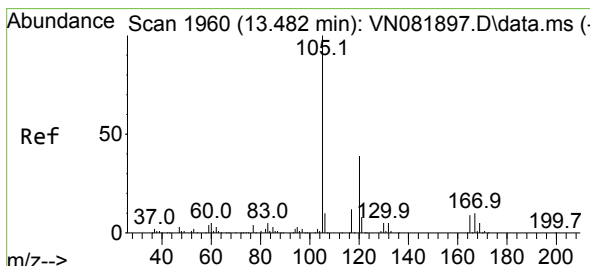
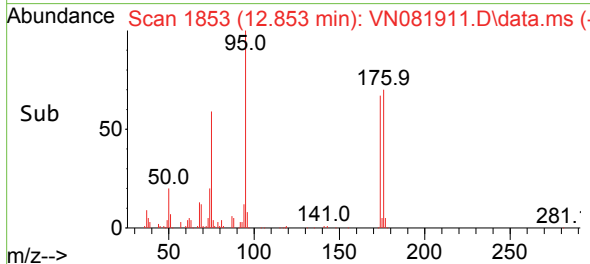
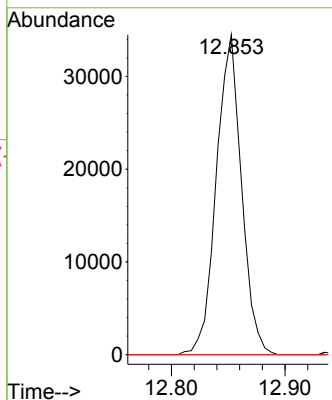


#77
t-1,4-Dichloro-2-butene
Concen: 36.571 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.117 min
Lab File: VN081911.D
Acq: 29 Apr 2024 13:56

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 53105
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#



#80
1,2,4-Trimethylbenzene
Concen: 0.281 ug/l
RT: 13.470 min Scan# 1958
Delta R.T. -0.012 min
Lab File: VN081911.D
Acq: 29 Apr 2024 13:56

Tgt Ion: 105 Resp: 2771
Ion Ratio Lower Upper
105 100
120 26.3 0.0 86.8

