

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061924\
 Data File : VN082640.D
 Acq On : 19 Jun 2024 14:47
 Operator : JC\MD
 Sample : PB161542ZHE#06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 20 03:01:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N061724W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 18 04:52:44 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	132229	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	254151	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	267131	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	105391	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	121770	57.426	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 114.860%			
35) Dibromofluoromethane	8.171	113	89958	52.176	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.360%			
50) Toluene-d8	10.571	98	343484	52.681	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.360%			
62) 4-Bromofluorobenzene	12.853	95	110514	49.163	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 98.320%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.965	94	621	0.458	ug/l #	53
11) Tert butyl alcohol	5.536	59	1513	4.360	ug/l #	71
16) Acetone	4.430	43	58076	60.222	ug/l	100
18) Methyl Acetate	5.030	43	3342	1.417	ug/l #	62
20) Methylene Chloride	5.283	84	11435	6.745	ug/l	94
25) 2-Butanone	7.488	43	19131	13.957	ug/l	95
29) Tetrahydrofuran	7.853	42	1882	2.243	ug/l #	74
31) Cyclohexane	8.224	56	4068	1.329	ug/l #	39
36) 1,1-Dichloropropene	8.230	75	11740	4.555	ug/l #	45
37) Ethyl Acetate	7.565	43	4214	1.284	ug/l #	86
38) Carbon Tetrachloride	8.224	117	14113	4.859	ug/l #	18
41) Methacrylonitrile	7.841	41	571	0.340	ug/l #	25
42) 1,2-Dichloroethane	8.688	62	982	0.324	ug/l #	78
43) Isopropyl Acetate	8.694	43	271952	44.323	ug/l #	80
45) 1,2-Dichloropropane	9.747	63	1618	0.789	ug/l #	44
48) Methyl methacrylate	9.671	41	5581	2.206	ug/l #	51
49) 1,4-Dioxane	9.747	88	236	5.965	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	16287	5.175	ug/l #	79
53) t-1,3-Dichloropropene	10.735	75	1068	0.353	ug/l #	86
54) cis-1,3-Dichloropropene	10.359	75	44706	14.275	ug/l #	67
57) 1,3-Dichloropropane	11.212	76	6442	1.995	ug/l #	43
59) 2-Hexanone	11.206	43	87600	36.624	ug/l #	61
74) N-amyl acetate	12.465	43	3474	0.813	ug/l #	48
76) 1,2,3-Trichloropropane	12.853	75	63533	24.647	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	63533	58.966	ug/l #	6

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

Instrument :
MSVOA_N
ClientSampleId :

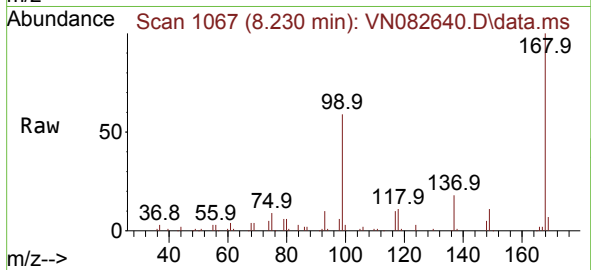
Instrument :
MSVOA_N
ClientSampleId :



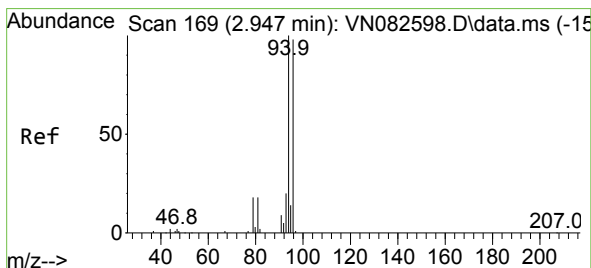
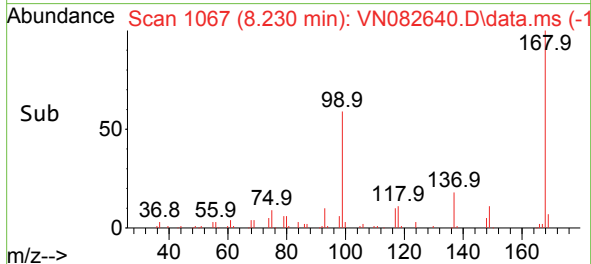
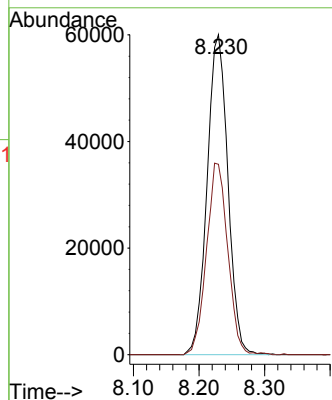


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. 0.001 min
Lab File: VN082640.D
Acq: 19 Jun 2024 14:47

Instrument :
MSVOA_N
ClientSampleId :

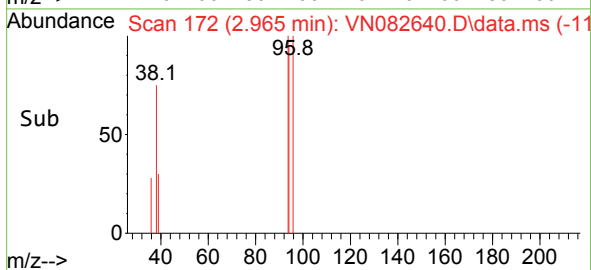
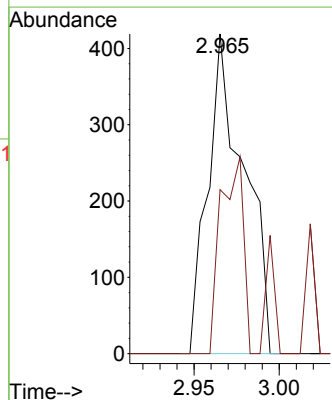
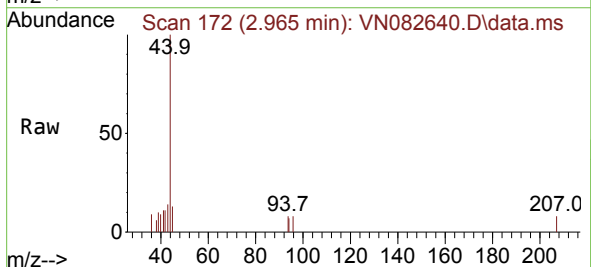


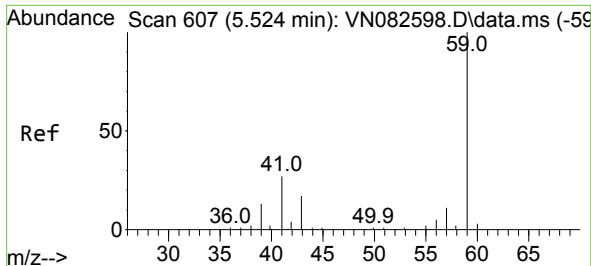
Tgt Ion:168 Resp: 132229
Ion Ratio Lower Upper
168 100
99 59.5 48.2 72.4



#5
Bromomethane
Concen: 0.458 ug/l
RT: 2.965 min Scan# 172
Delta R.T. 0.018 min
Lab File: VN082640.D
Acq: 19 Jun 2024 14:47

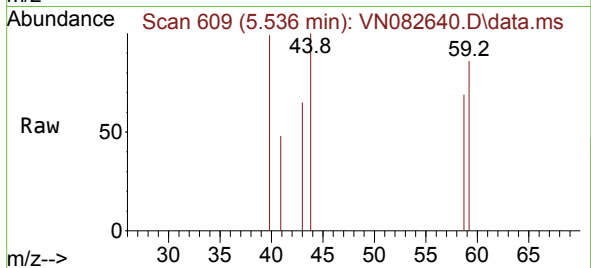
Tgt Ion: 94 Resp: 621
Ion Ratio Lower Upper
94 100
96 51.3 78.0 117.0#



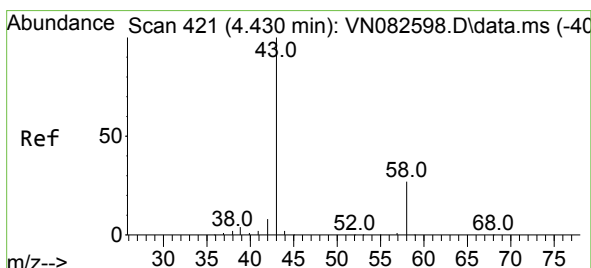
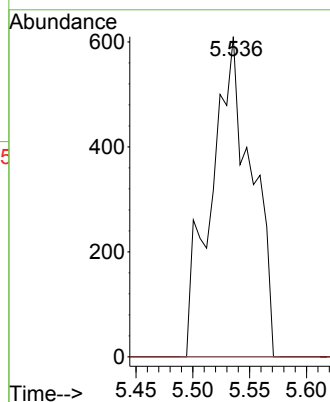
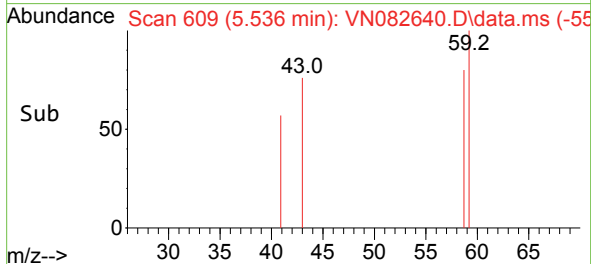


#11
Tert butyl alcohol
Concen: 4.360 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.012 min
Lab File: VN082640.D
Acq: 19 Jun 2024 14:47

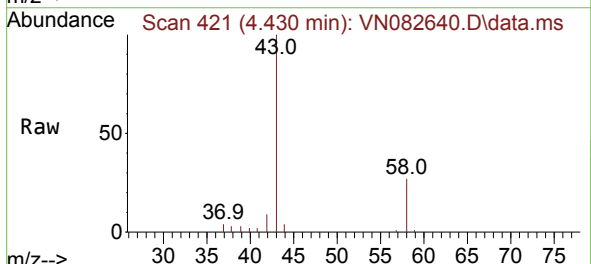
Instrument :
MSVOA_N
ClientSampleId :



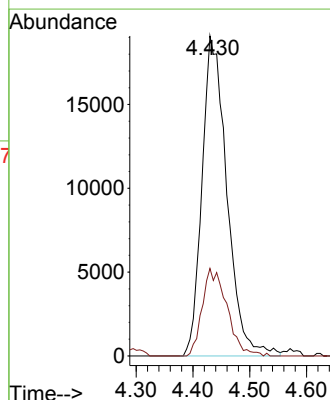
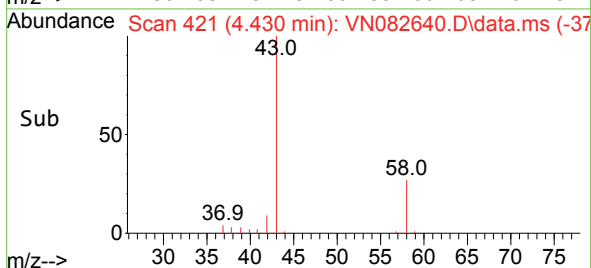
Tgt Ion: 59 Resp: 1513
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#

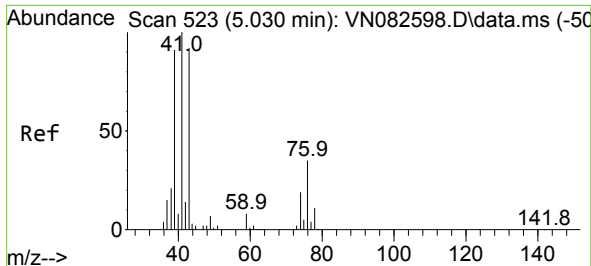


#16
Acetone
Concen: 60.222 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.000 min
Lab File: VN082640.D
Acq: 19 Jun 2024 14:47



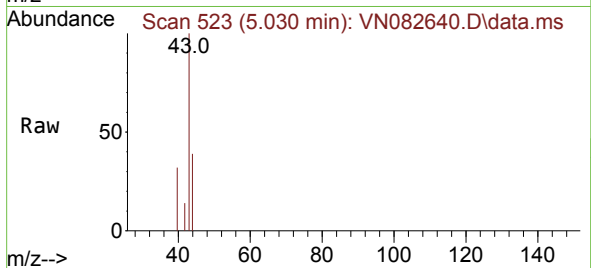
Tgt Ion: 43 Resp: 58076
Ion Ratio Lower Upper
43 100
58 27.4 21.8 32.6



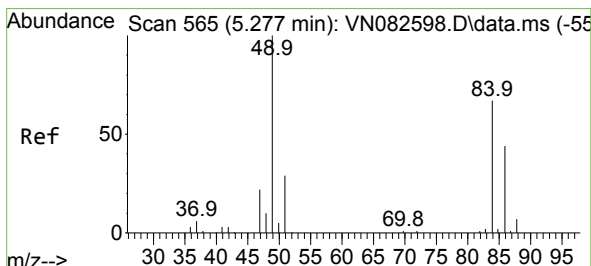
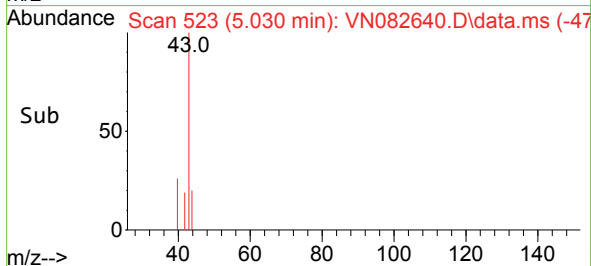
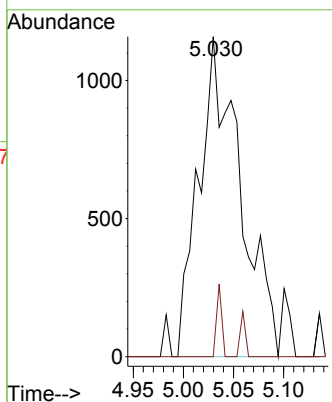


#18
Methyl Acetate
Concen: 1.417 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN082640.D
Acq: 19 Jun 2024 14:47

Instrument :
MSVOA_N
ClientSampleId :

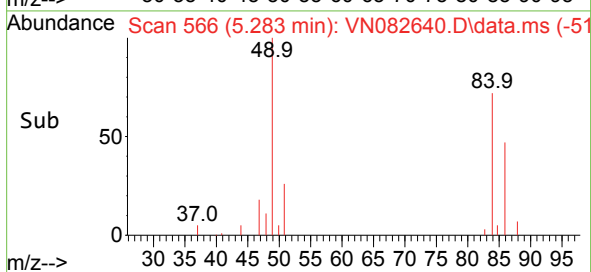
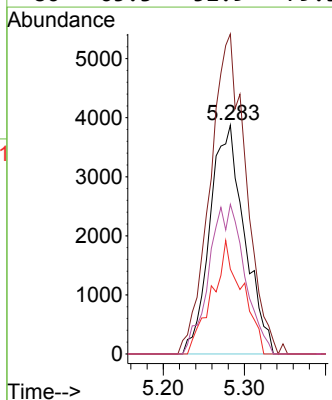
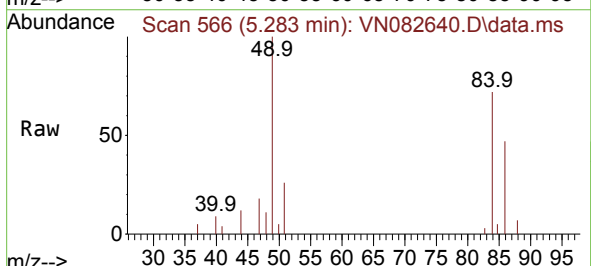


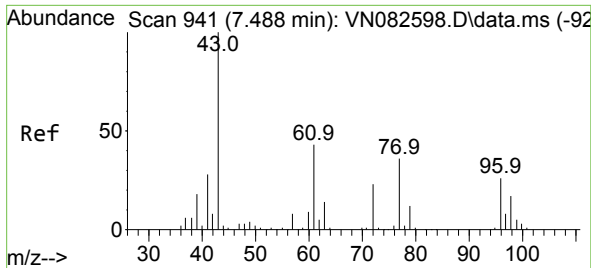
Tgt Ion: 43 Resp: 3342
Ion Ratio Lower Upper
43 100
74 2.8 16.3 24.5#



#20
Methylene Chloride
Concen: 6.745 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.006 min
Lab File: VN082640.D
Acq: 19 Jun 2024 14:47

Tgt Ion: 84 Resp: 11435
Ion Ratio Lower Upper
84 100
49 139.8 119.6 179.4
51 37.0 34.8 52.2
86 65.3 52.9 79.3

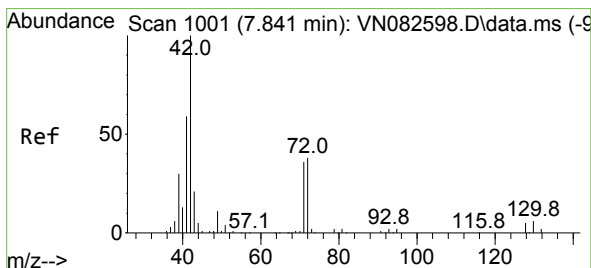
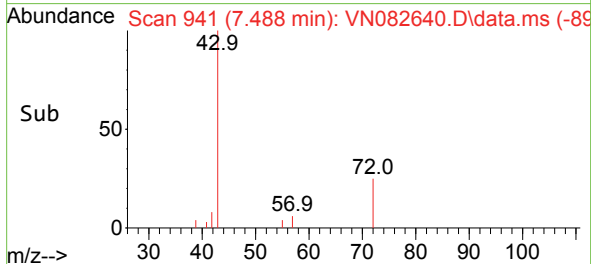
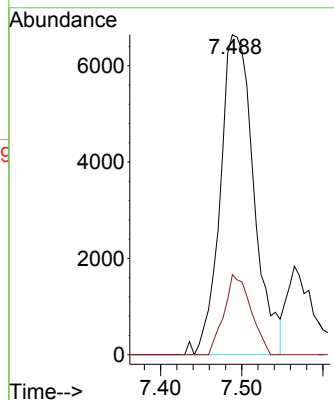
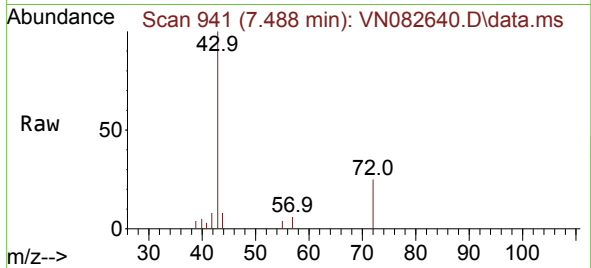




#25
2-Butanone
Concen: 13.957 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN082640.D
Acq: 19 Jun 2024 14:47

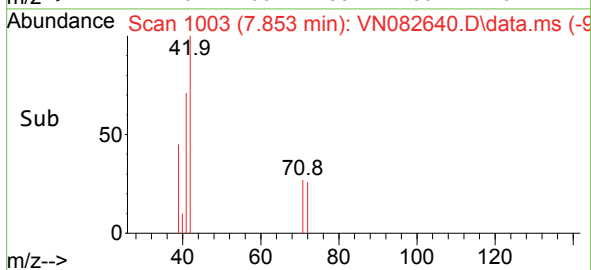
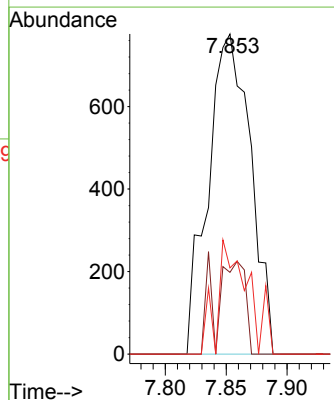
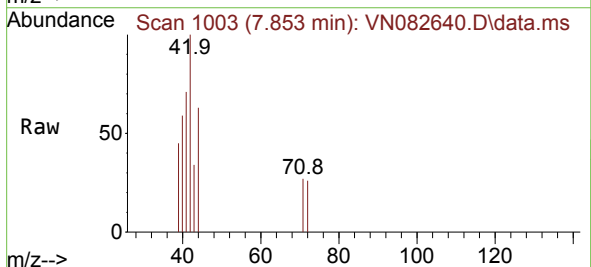
Instrument :
MSVOA_N
ClientSampleId :

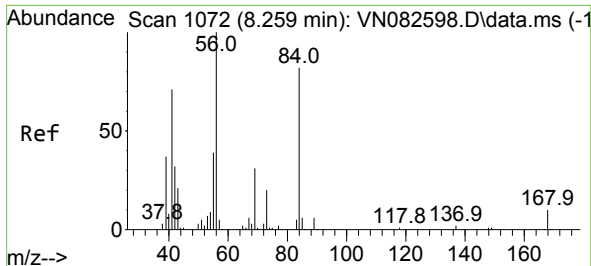
Tgt Ion: 43 Resp: 19131
Ion Ratio Lower Upper
43 100
72 25.0 18.2 27.2



#29
Tetrahydrofuran
Concen: 2.243 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.012 min
Lab File: VN082640.D
Acq: 19 Jun 2024 14:47

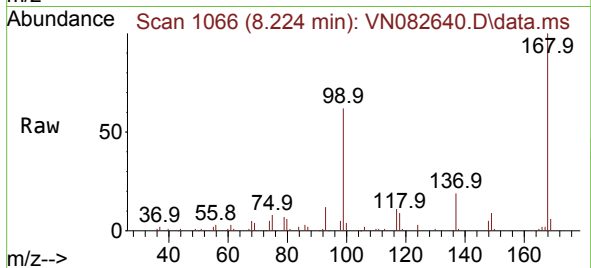
Tgt Ion: 42 Resp: 1882
Ion Ratio Lower Upper
42 100
72 15.7 30.0 45.0#
71 26.1 28.3 42.5#



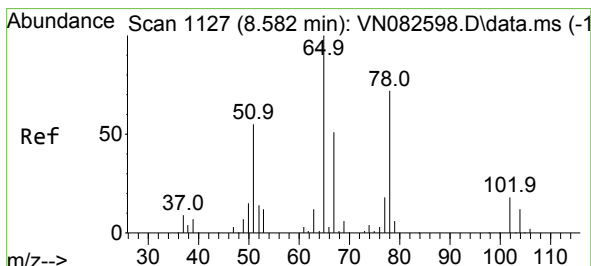
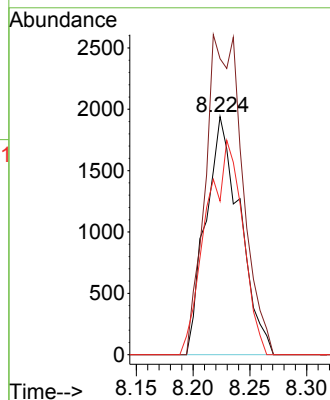
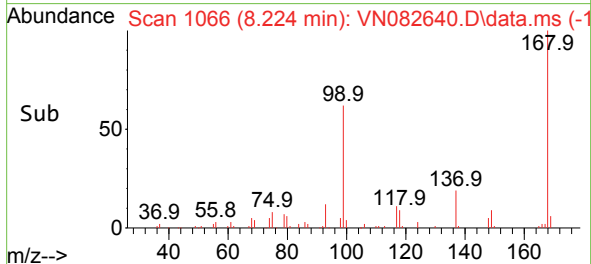


#31
Cyclohexane
Concen: 1.329 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN082640.D
Acq: 19 Jun 2024 14:47

Instrument :
MSVOA_N
ClientSampleId :

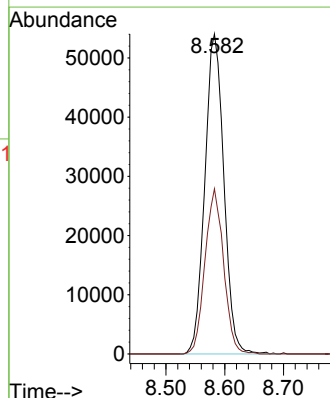
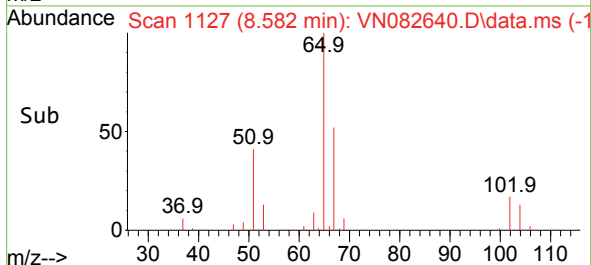
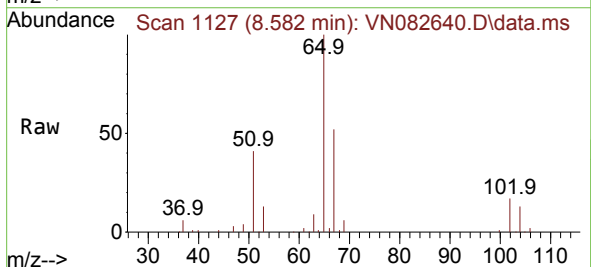


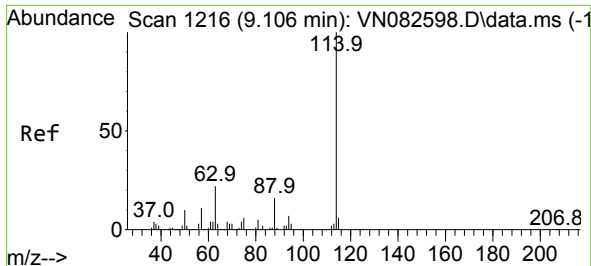
Tgt Ion: 56 Resp: 4068
Ion Ratio Lower Upper
56 100
69 124.3 24.5 36.7#
84 64.5 66.0 99.0#



#33
1,2-Dichloroethane-d4
Concen: 57.426 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN082640.D
Acq: 19 Jun 2024 14:47

Tgt Ion: 65 Resp: 121770
Ion Ratio Lower Upper
65 100
67 50.5 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN082640.D

Acq: 19 Jun 2024 14:47

Instrument :

MSVOA_N

ClientSampleId :

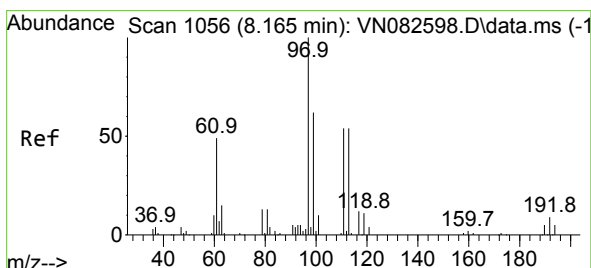
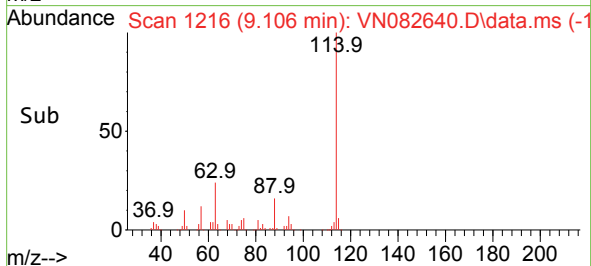
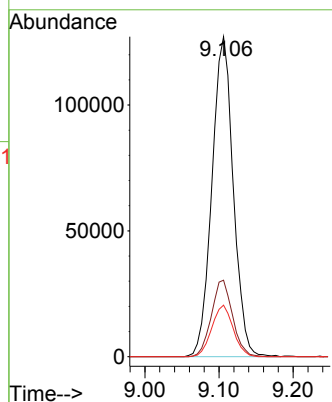
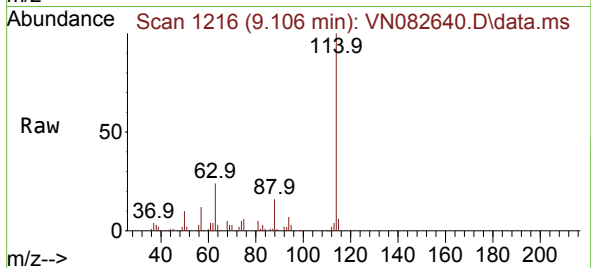
Tgt Ion:114 Resp: 254151

Ion Ratio Lower Upper

114 100

63 23.9 0.0 44.6

88 16.1 0.0 31.4



#35

Dibromofluoromethane

Concen: 52.176 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN082640.D

Acq: 19 Jun 2024 14:47

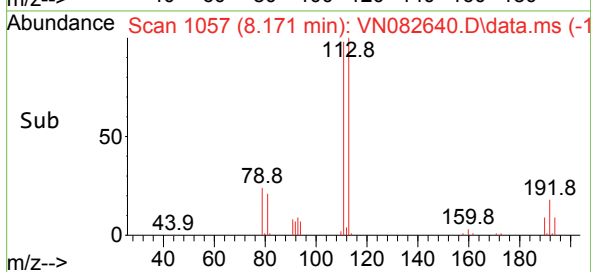
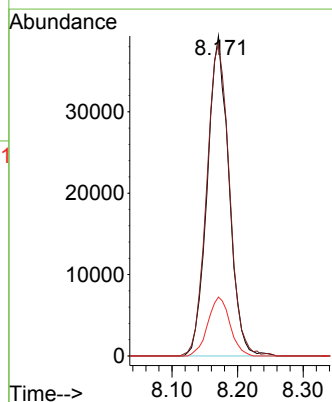
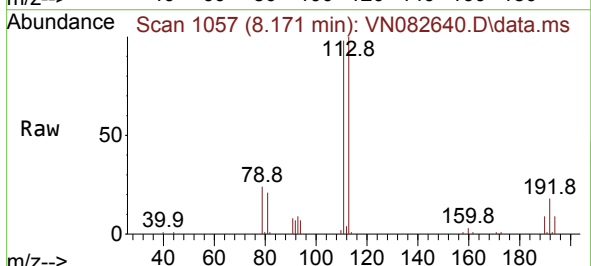
Tgt Ion:113 Resp: 89958

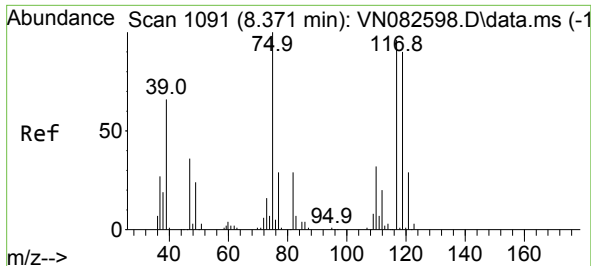
Ion Ratio Lower Upper

113 100

111 102.6 82.4 123.6

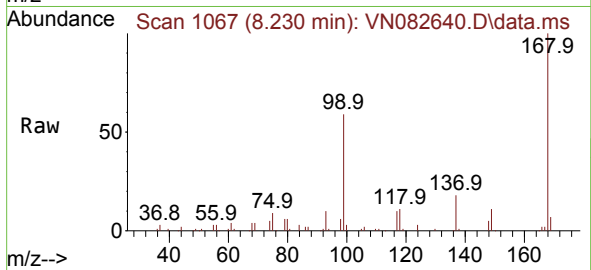
192 18.8 14.9 22.3



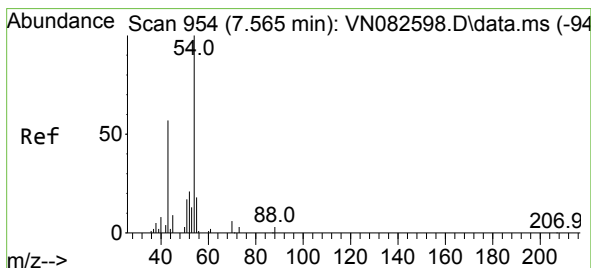
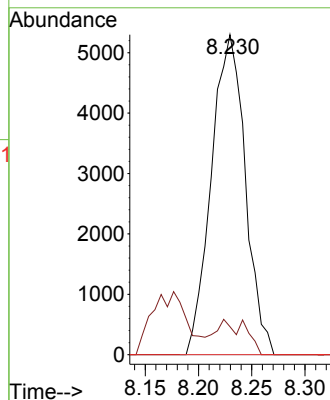
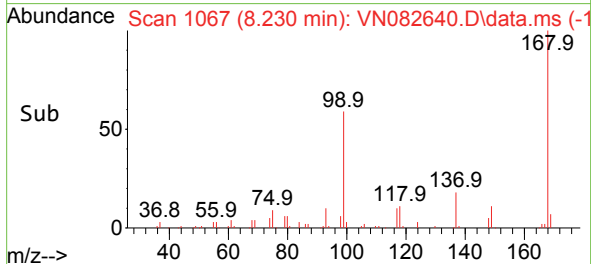


#36
1,1-Dichloropropene
Concen: 4.555 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN082640.D
Acq: 19 Jun 2024 14:47

Instrument :
MSVOA_N
ClientSampleId :

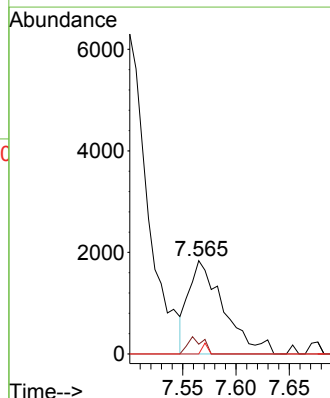
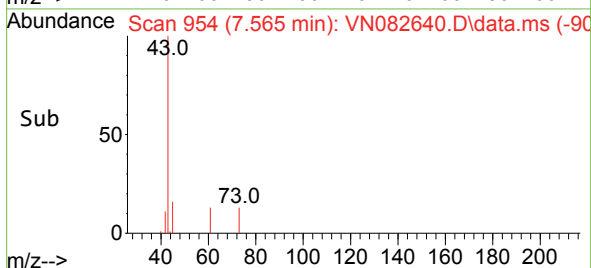
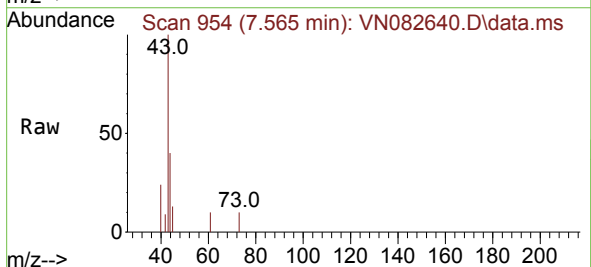


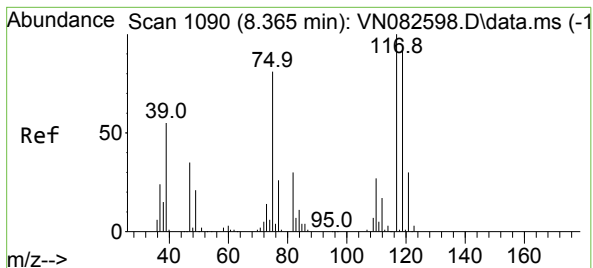
Tgt Ion: 75 Resp: 11740
Ion Ratio Lower Upper
75 100
110 2.4 16.3 48.9#
77 0.0 24.6 37.0#



#37
Ethyl Acetate
Concen: 1.284 ug/l
RT: 7.565 min Scan# 954
Delta R.T. 0.000 min
Lab File: VN082640.D
Acq: 19 Jun 2024 14:47

Tgt Ion: 43 Resp: 4214
Ion Ratio Lower Upper
43 100
61 8.1 9.3 13.9#
70 1.8 7.0 10.6#





#38

Carbon Tetrachloride

Concen: 4.859 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

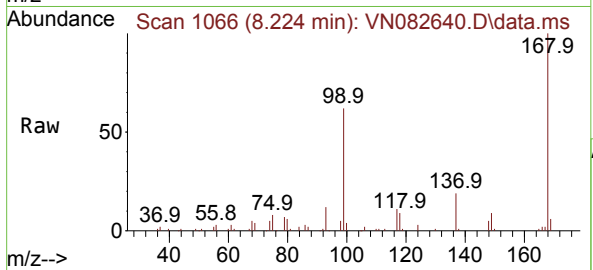
Lab File: VN082640.D

Acq: 19 Jun 2024 14:47

Instrument :

MSVOA_N

ClientSampleId :



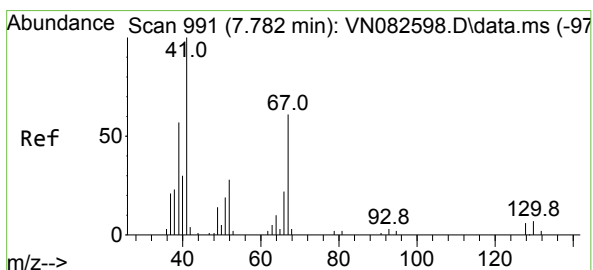
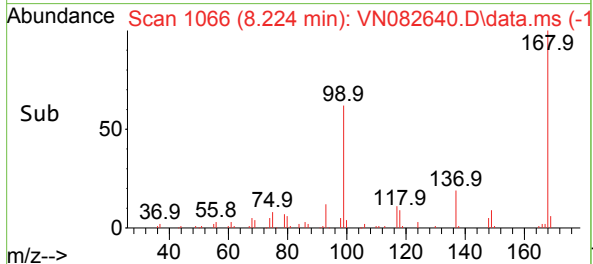
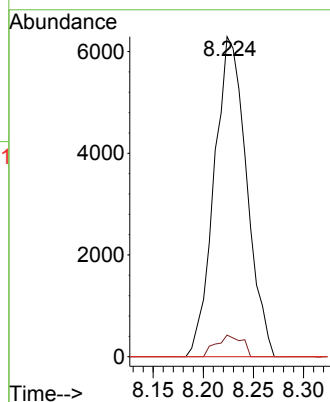
Tgt Ion:117 Resp: 14113

Ion Ratio Lower Upper

117 100

119 6.8 74.9 112.3#

121 0.0 24.3 36.5#



#41

Methacrylonitrile

Concen: 0.340 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.059 min

Lab File: VN082640.D

Acq: 19 Jun 2024 14:47

Tgt Ion: 41 Resp: 571

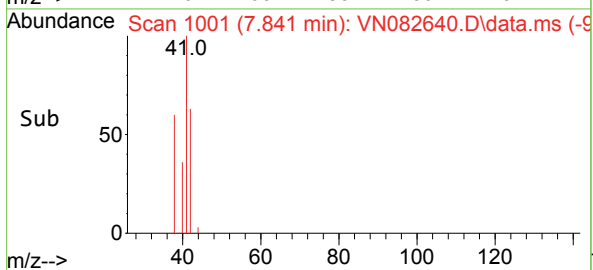
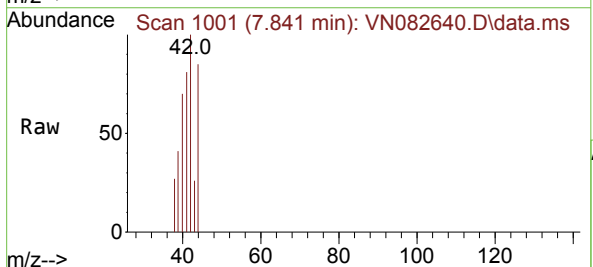
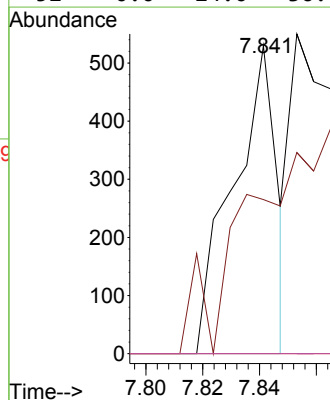
Ion Ratio Lower Upper

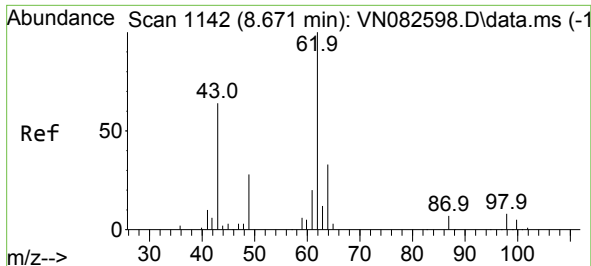
41 100

39 0.0 45.5 68.3#

67 0.0 50.5 75.7#

52 0.0 24.0 36.0#





#42

1,2-Dichloroethane

Concen: 0.324 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.018 min

Lab File: VN082640.D

Acq: 19 Jun 2024 14:47

Instrument :

MSVOA_N

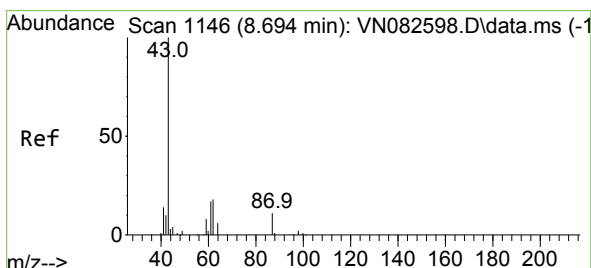
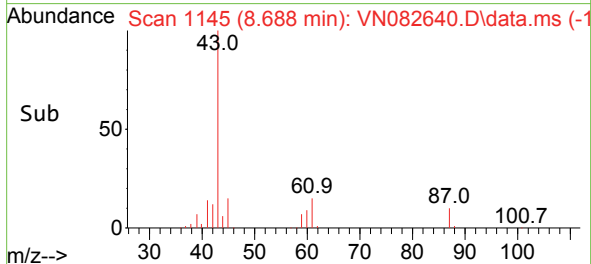
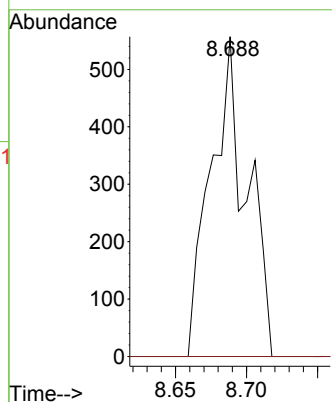
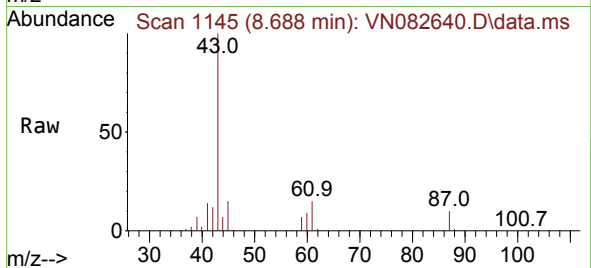
ClientSampleId :

Tgt Ion: 62 Resp: 982

Ion Ratio Lower Upper

62 100

98 0.0 0.0 15.8



#43

Isopropyl Acetate

Concen: 44.323 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN082640.D

Acq: 19 Jun 2024 14:47

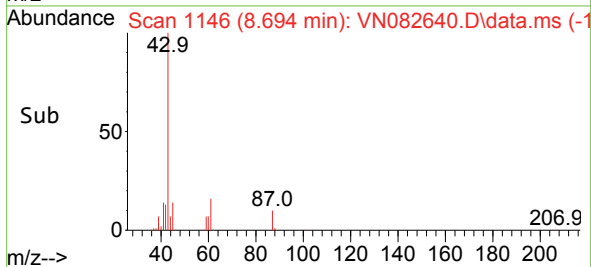
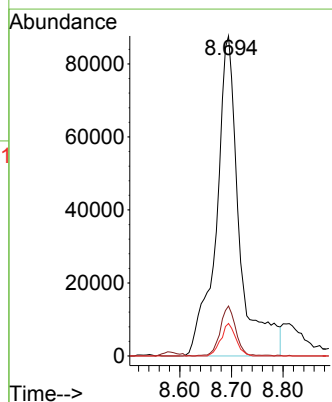
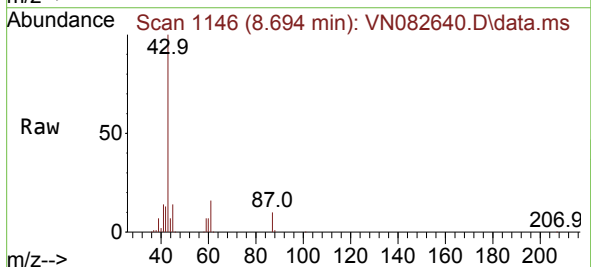
Tgt Ion: 43 Resp: 271952

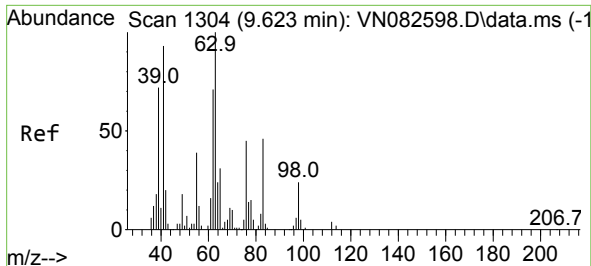
Ion Ratio Lower Upper

43 100

61 10.5 17.8 26.6#

87 6.6 8.2 12.2#





#45

1,2-Dichloropropane

Concen: 0.789 ug/l

RT: 9.747 min Scan# 1

Delta R.T. 0.124 min

Lab File: VN082640.D

Acq: 19 Jun 2024 14:47

Instrument :

MSVOA_N

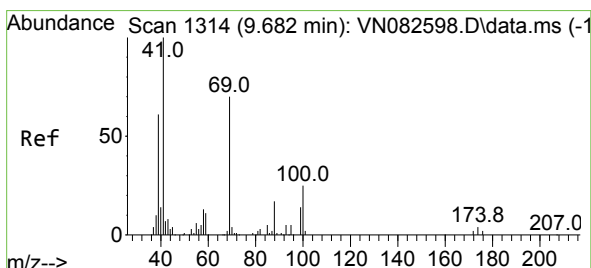
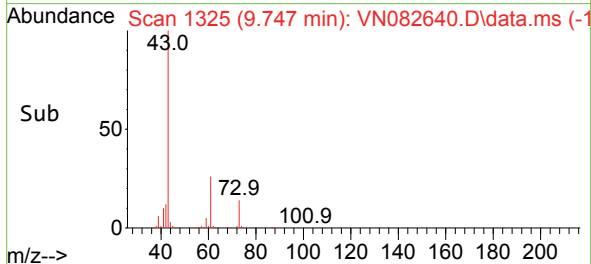
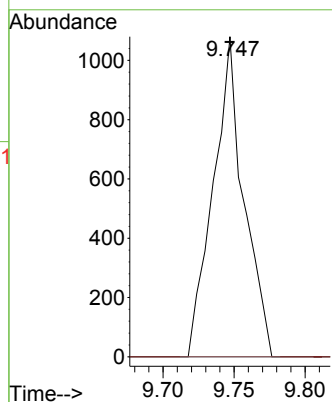
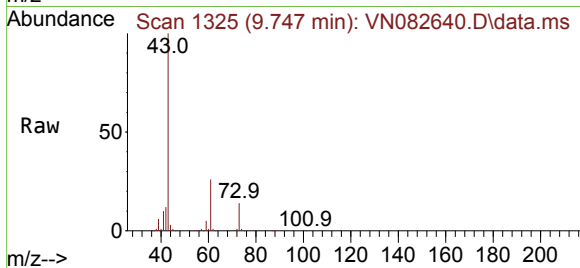
ClientSampleId :

Tgt Ion: 63 Resp: 1618

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



#48

Methyl methacrylate

Concen: 2.206 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.011 min

Lab File: VN082640.D

Acq: 19 Jun 2024 14:47

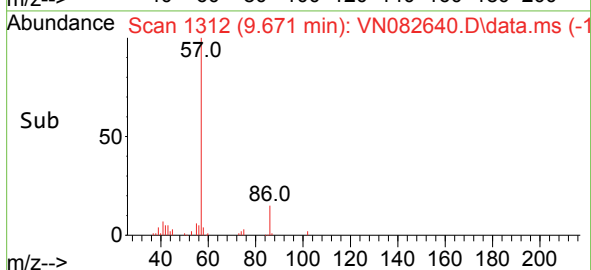
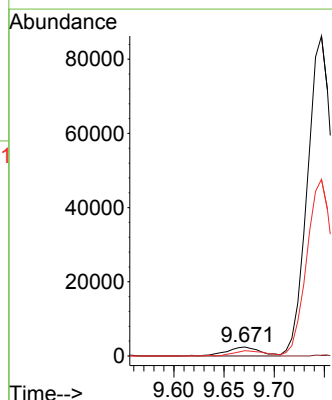
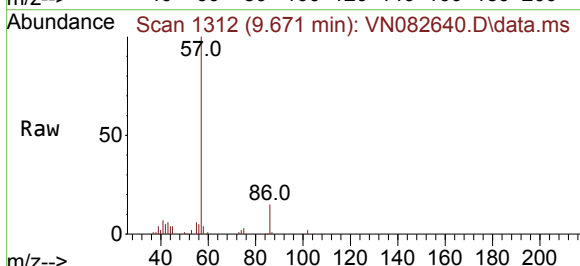
Tgt Ion: 41 Resp: 5581

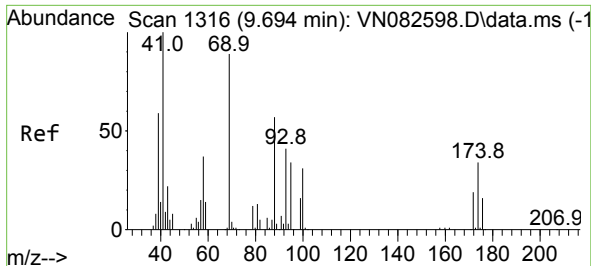
Ion Ratio Lower Upper

41 100

69 0.0 56.3 84.5#

39 56.6 50.3 75.5





#49

1,4-Dioxane

Concen: 5.965 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.053 min

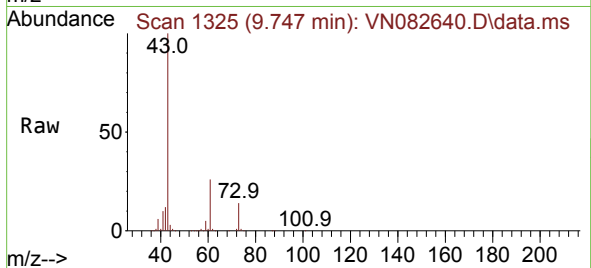
Lab File: VN082640.D

Acq: 19 Jun 2024 14:47

Instrument :

MSVOA_N

ClientSampleId :



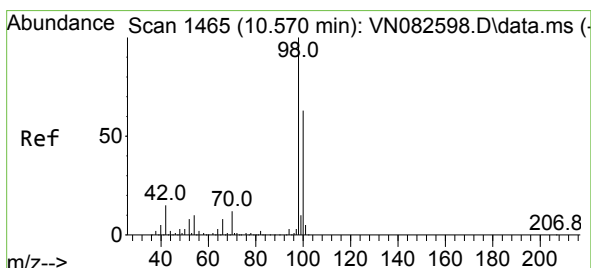
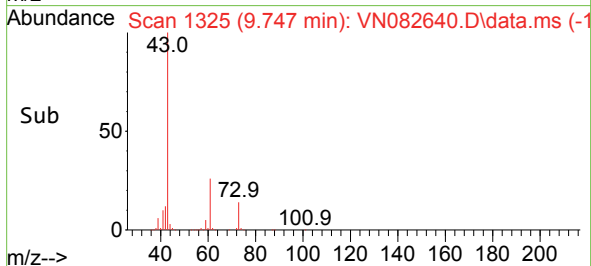
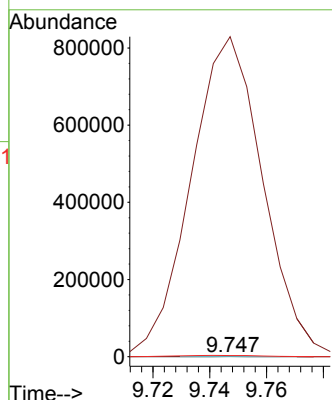
Tgt Ion: 88 Resp: 236

Ion Ratio Lower Upper

88 100

43 622766.5 27.8 41.8#

58 2849.6 59.4 89.0#



#50

Toluene-d8

Concen: 52.681 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN082640.D

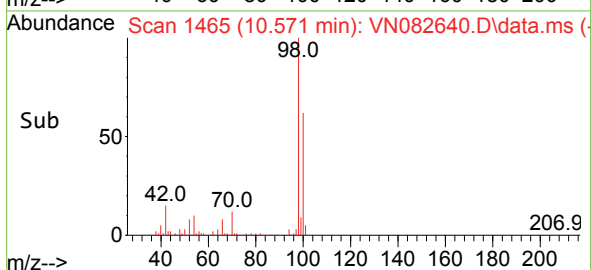
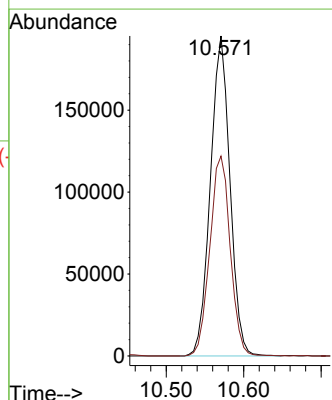
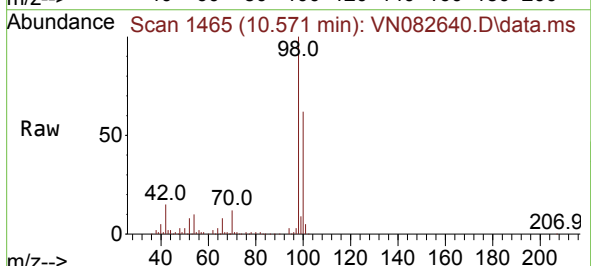
Acq: 19 Jun 2024 14:47

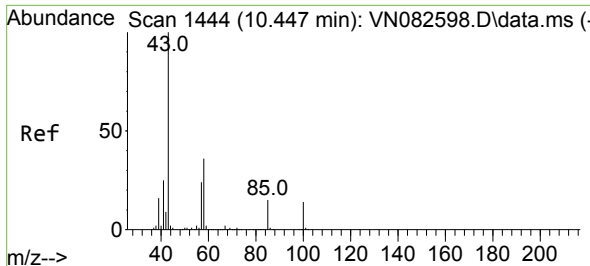
Tgt Ion: 98 Resp: 343484

Ion Ratio Lower Upper

98 100

100 65.1 51.5 77.3

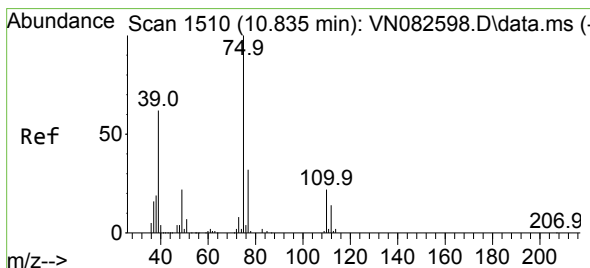
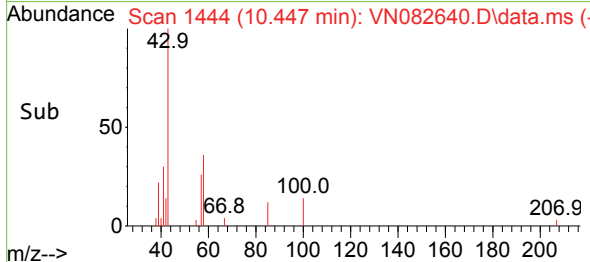
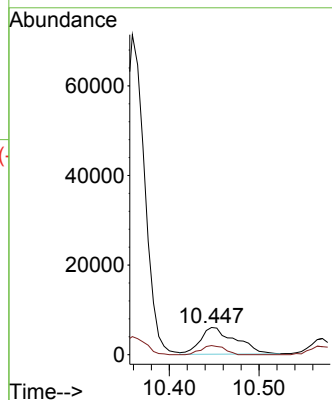
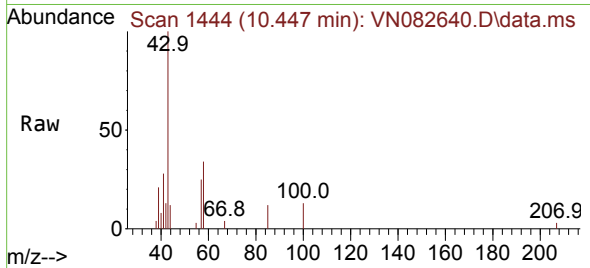




#51
4-Methyl-2-Pentanone
Concen: 5.175 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN082640.D
Acq: 19 Jun 2024 14:47

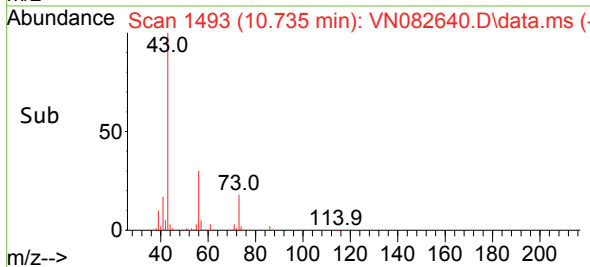
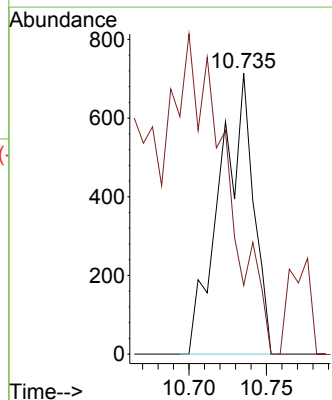
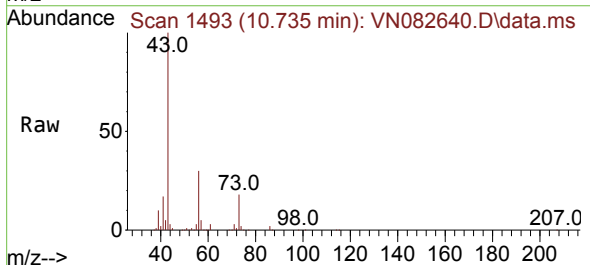
Instrument :
MSVOA_N
ClientSampleId :

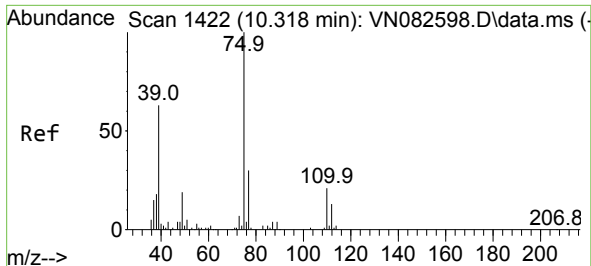
Tgt Ion: 43 Resp: 16287
Ion Ratio Lower Upper
43 100
58 22.9 28.2 42.4#



#53
t-1,3-Dichloropropene
Concen: 0.353 ug/l
RT: 10.735 min Scan# 1493
Delta R.T. -0.100 min
Lab File: VN082640.D
Acq: 19 Jun 2024 14:47

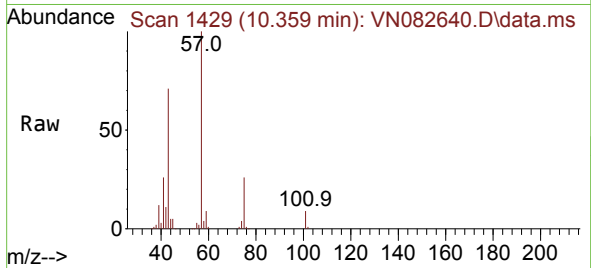
Tgt Ion: 75 Resp: 1068
Ion Ratio Lower Upper
75 100
77 24.5 25.7 38.5#



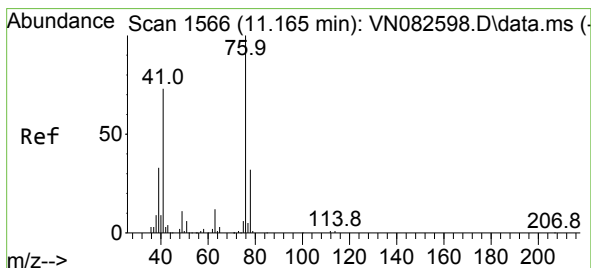
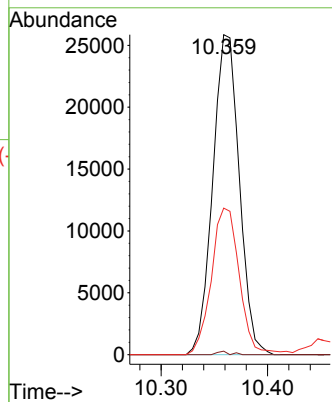
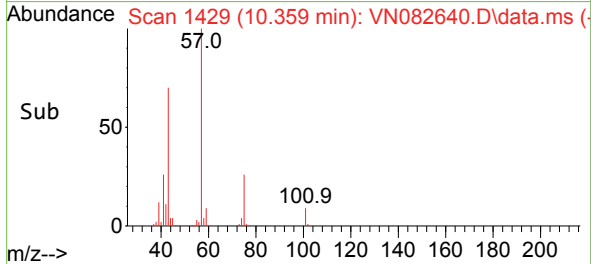


#54
 cis-1,3-Dichloropropene
 Concen: 14.275 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.041 min
 Lab File: VN082640.D
 Acq: 19 Jun 2024 14:47

Instrument :
 MSVOA_N
 ClientSampleId :

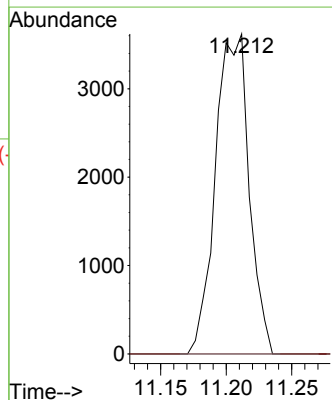
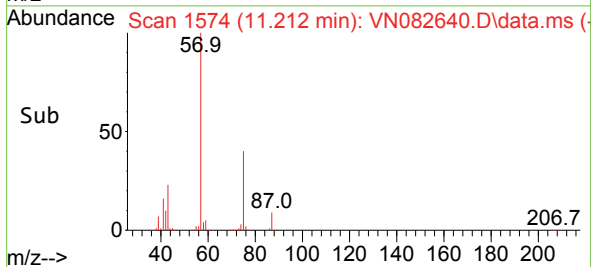
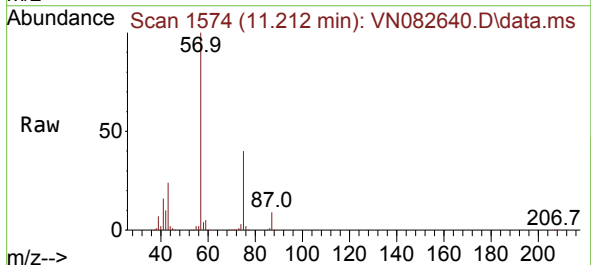


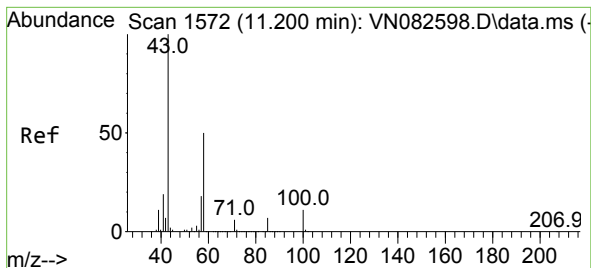
Tgt Ion: 75 Resp: 44706
 Ion Ratio Lower Upper
 75 100
 77 1.1 24.3 36.5#
 39 45.8 50.5 75.7#



#57
 1,3-Dichloropropane
 Concen: 1.995 ug/l
 RT: 11.212 min Scan# 1574
 Delta R.T. 0.047 min
 Lab File: VN082640.D
 Acq: 19 Jun 2024 14:47

Tgt Ion: 76 Resp: 6442
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

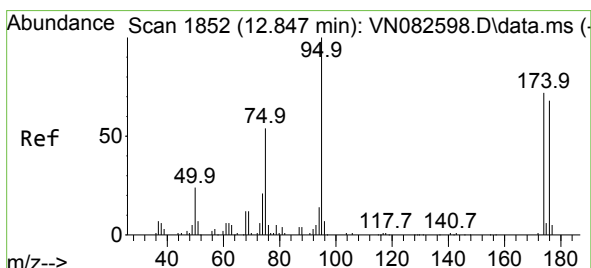
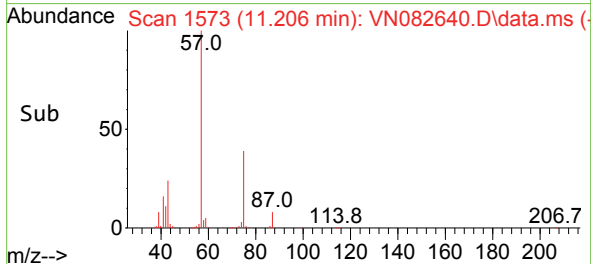
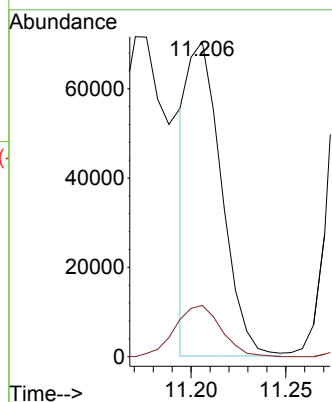
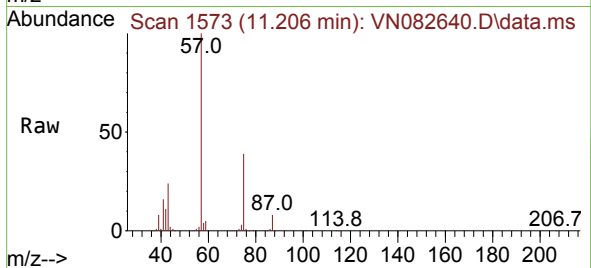




#59
2-Hexanone
Concen: 36.624 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN082640.D
Acq: 19 Jun 2024 14:47

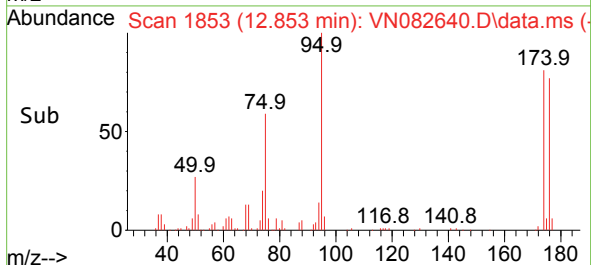
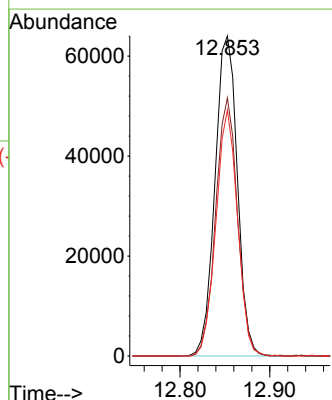
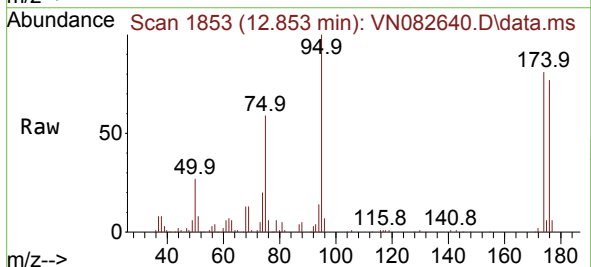
Instrument :
MSVOA_N
ClientSampleId :

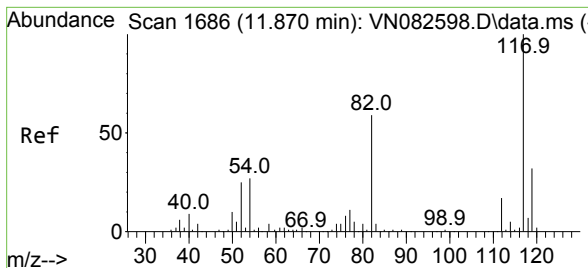
Tgt Ion: 43 Resp: 87600
Ion Ratio Lower Upper
43 100
58 22.3 24.6 73.8#



#62
4-Bromofluorobenzene
Concen: 49.163 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN082640.D
Acq: 19 Jun 2024 14:47

Tgt Ion: 95 Resp: 110514
Ion Ratio Lower Upper
95 100
174 78.8 0.0 159.2
176 74.3 0.0 147.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN082640.D

Acq: 19 Jun 2024 14:47

Instrument :

MSVOA_N

ClientSampleId :

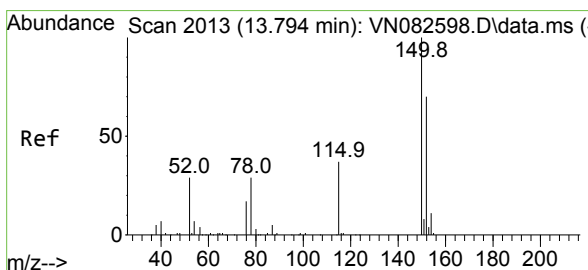
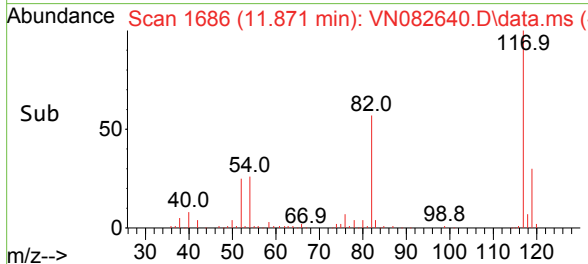
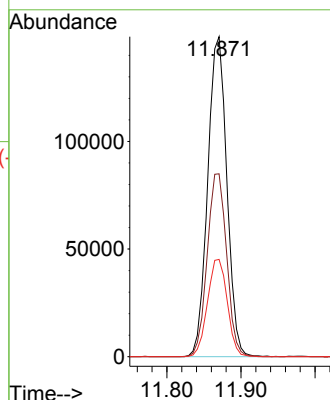
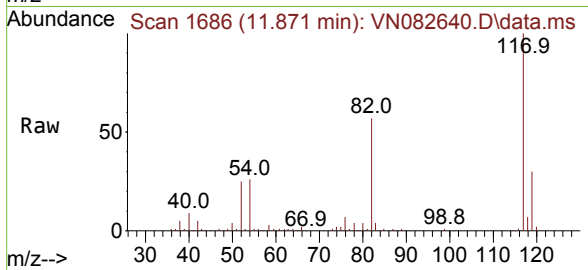
Tgt Ion:117 Resp: 267131

Ion Ratio Lower Upper

117 100

82 57.2 47.5 71.3

119 30.4 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN082640.D

Acq: 19 Jun 2024 14:47

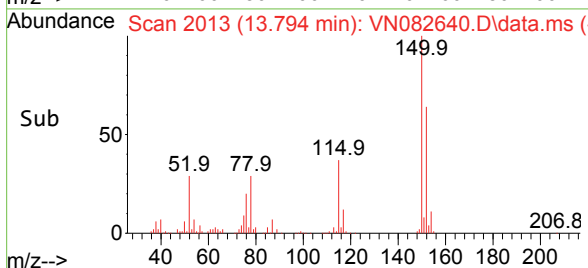
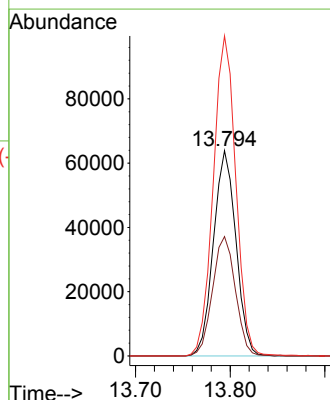
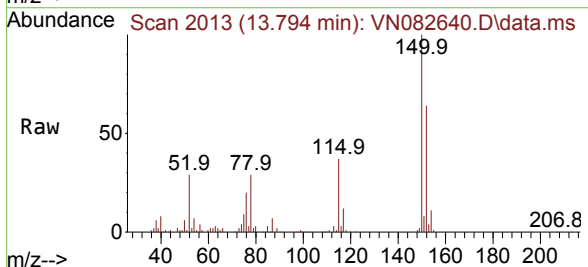
Tgt Ion:152 Resp: 105391

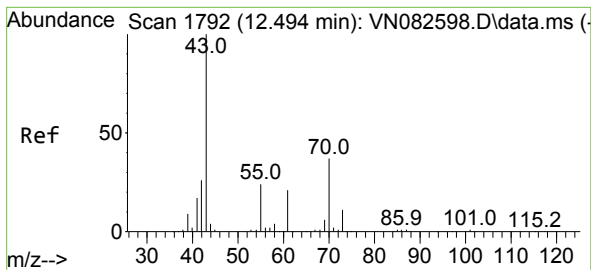
Ion Ratio Lower Upper

152 100

115 59.2 30.6 91.6

150 156.7 0.0 348.6





#74

N-amy1 acetate

Concen: 0.813 ug/l

RT: 12.465 min Scan# 1

Delta R.T. -0.029 min

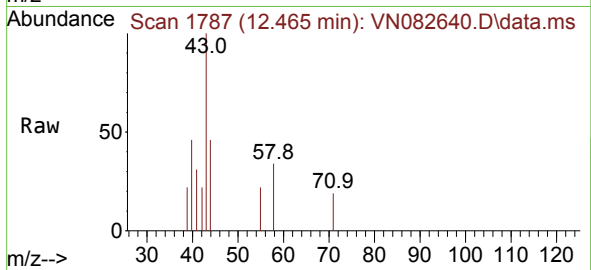
Lab File: VN082640.D

Acq: 19 Jun 2024 14:47

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 3474

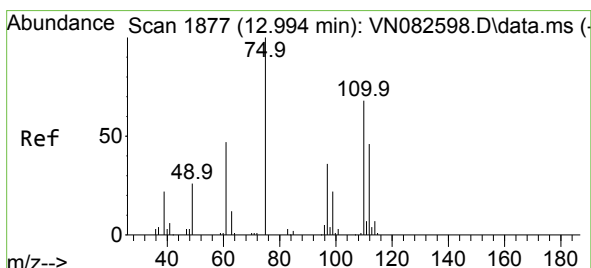
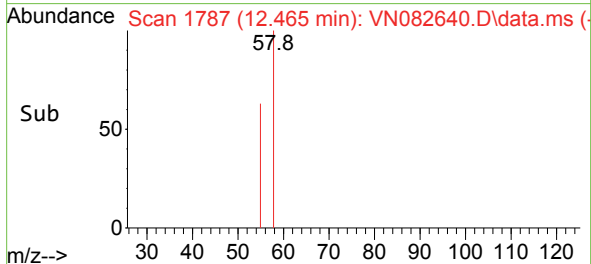
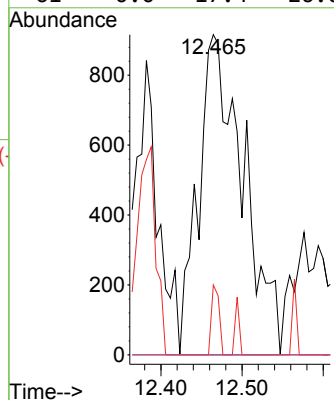
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.6#

55 3.7 18.7 28.1#

61 0.0 17.4 26.0#



#76

1,2,3-Trichloropropane

Concen: 24.647 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN082640.D

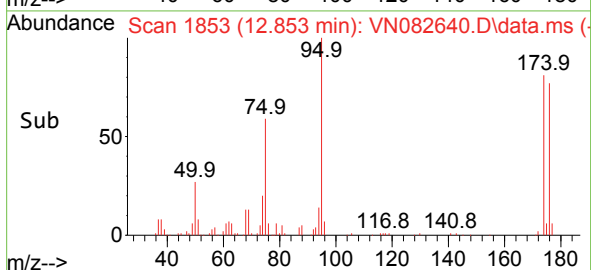
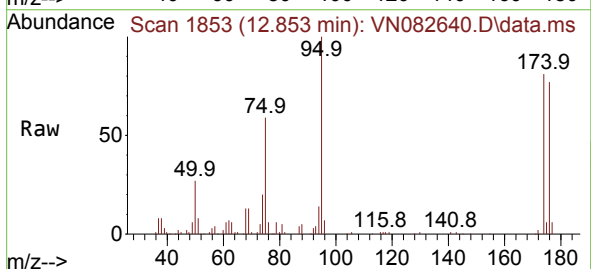
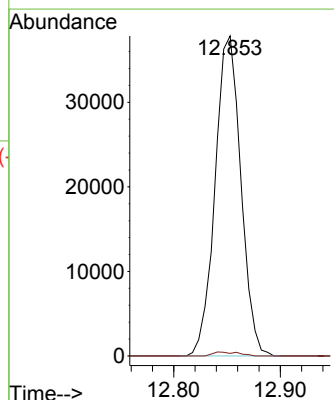
Acq: 19 Jun 2024 14:47

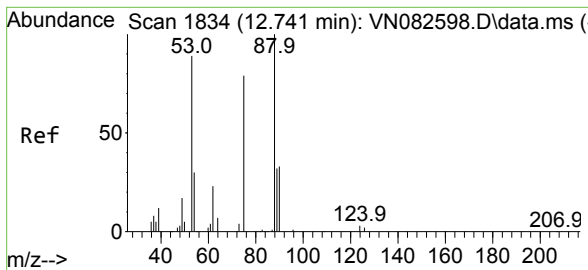
Tgt Ion: 75 Resp: 63533

Ion Ratio Lower Upper

75 100

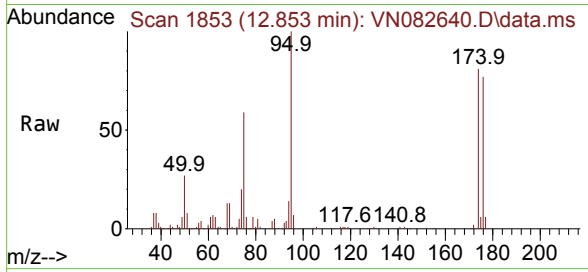
77 1.2 110.9 332.6#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.966 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN082640.D
 Acq: 19 Jun 2024 14:47

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.1	88.4	132.6#
89	0.0	36.3	54.5#

