

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061924\
 Data File : VN082638.D
 Acq On : 19 Jun 2024 13:57
 Operator : JC\MD
 Sample : PB161542ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 20 03:00:41 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	8.224	168	134349	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	253432	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	263099	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	100101	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	119573	55.500	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 111.000%	
35) Dibromofluoromethane	8.171	113	88383	51.408	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.820%	
50) Toluene-d8	10.570	98	343875	52.891	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 105.780%	
62) 4-Bromofluorobenzene	12.853	95	110864	49.459	ug/l	0.00
Spiked Amount	50.000	Range	64 - 133	Recovery	= 98.920%	

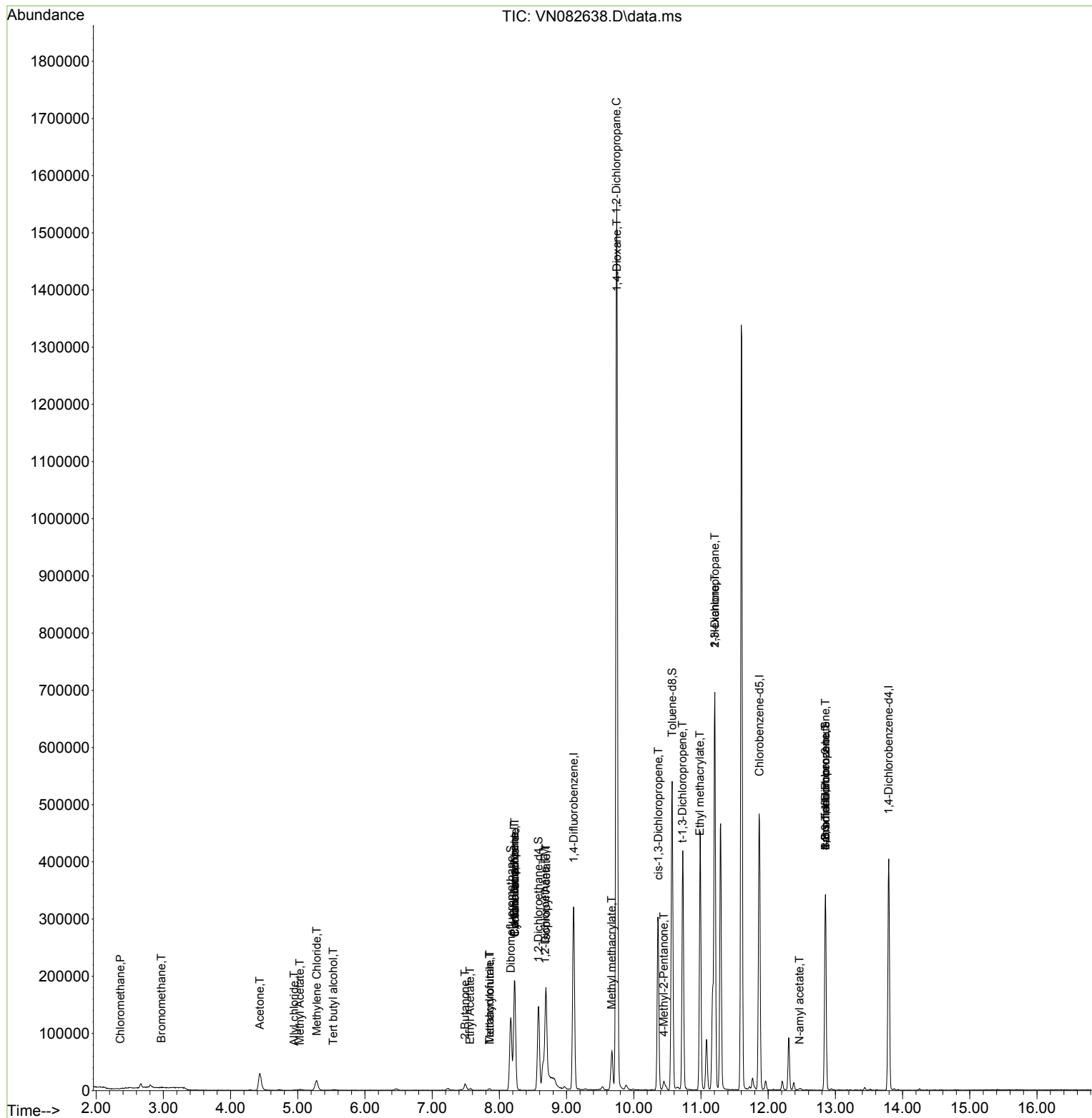
Target Compounds				Qvalue		
3) Chloromethane	2.359	50	524	0.233	ug/l #	43
5) Bromomethane	2.971	94	836	0.607	ug/l #	40
11) Tert butyl alcohol	5.530	59	1499	4.251	ug/l #	71
14) Allyl chloride	4.947	41	599	0.205	ug/l #	17
16) Acetone	4.436	43	57824	59.014	ug/l	92
18) Methyl Acetate	5.030	43	1654	0.690	ug/l #	83
20) Methylene Chloride	5.283	84	11642	6.758	ug/l	92
25) 2-Butanone	7.488	43	17645	12.670	ug/l	97
29) Tetrahydrofuran	7.853	42	1701	1.995	ug/l	98
31) Cyclohexane	8.229	56	3967	1.276	ug/l #	21
36) 1,1-Dichloropropene	8.224	75	12019	4.676	ug/l #	50
37) Ethyl Acetate	7.565	43	4060	1.240	ug/l #	92
38) Carbon Tetrachloride	8.229	117	14059	4.854	ug/l #	18
41) Methacrylonitrile	7.859	41	1209	0.722	ug/l #	53
42) 1,2-Dichloroethane	8.682	62	908	0.301	ug/l #	78
43) Isopropyl Acetate	8.694	43	251450	41.098	ug/l #	83
45) 1,2-Dichloropropane	9.741	63	1752	0.857	ug/l #	44
48) Methyl methacrylate	9.671	41	5106	2.024	ug/l #	54
49) 1,4-Dioxane	9.747	88	84	2.129	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	16553	5.275	ug/l #	82
53) t-1,3-Dichloropropene	10.723	75	894	0.296	ug/l #	38
54) cis-1,3-Dichloropropene	10.365	75	45251	14.490	ug/l #	66
56) Ethyl methacrylate	10.982	69	2107	0.730	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	6404	1.989	ug/l #	43
59) 2-Hexanone	11.206	43	87774	36.801	ug/l #	62
71) Bromoform	12.853	173	948	0.557	ug/l #	1
74) N-amyl acetate	12.464	43	1260	0.311	ug/l #	52
76) 1,2,3-Trichloropropane	12.853	75	62810	25.654	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	62810	61.376	ug/l #	6

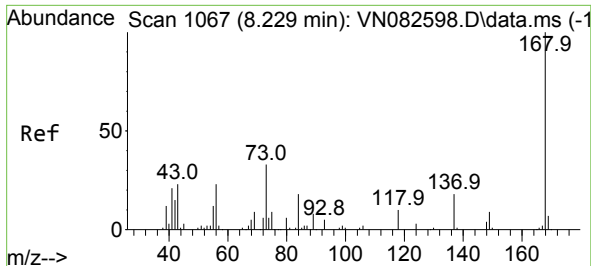
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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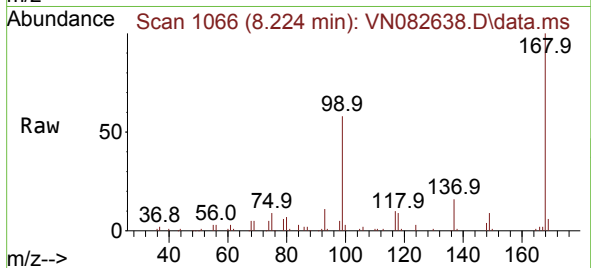
Quant Time: Jun 20 03:00:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N061724W.M
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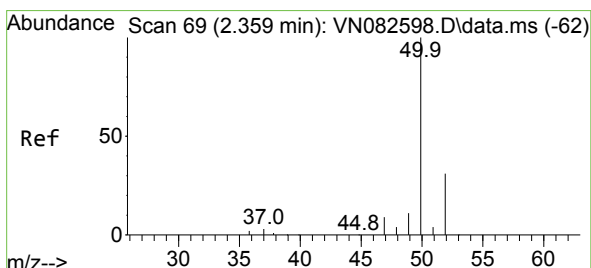
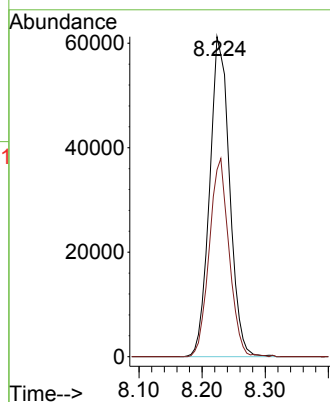
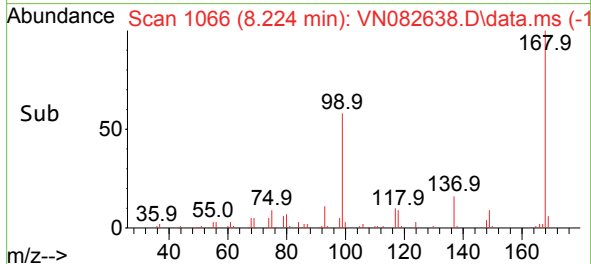


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.005 min
Lab File: VN082638.D
Acq: 19 Jun 2024 13:57

Instrument :
MSVOA_N
ClientSampleId :

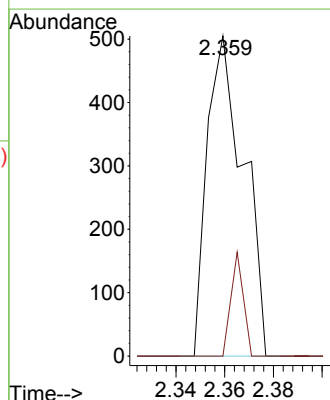
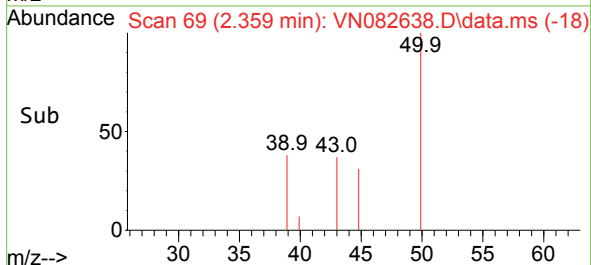
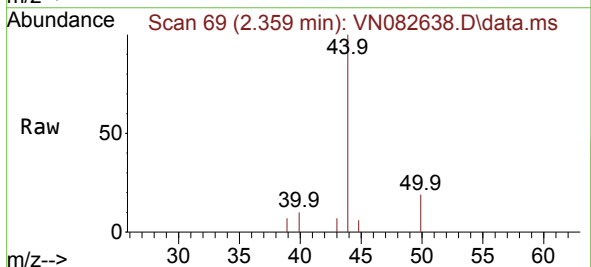


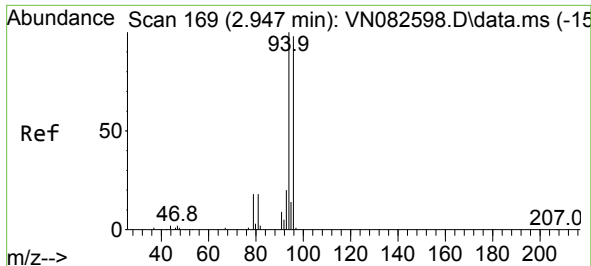
Tgt Ion:168 Resp: 134349
Ion Ratio Lower Upper
168 100
99 58.4 48.2 72.4



#3
Chloromethane
Concen: 0.233 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN082638.D
Acq: 19 Jun 2024 13:57

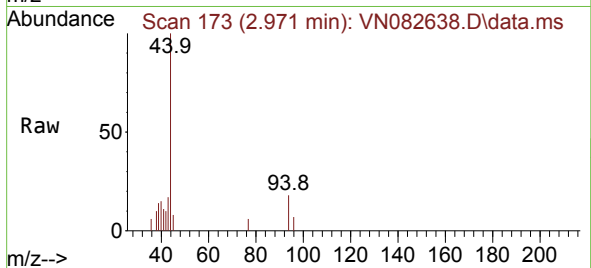
Tgt Ion: 50 Resp: 524
Ion Ratio Lower Upper
50 100
52 0.0 25.0 37.4#



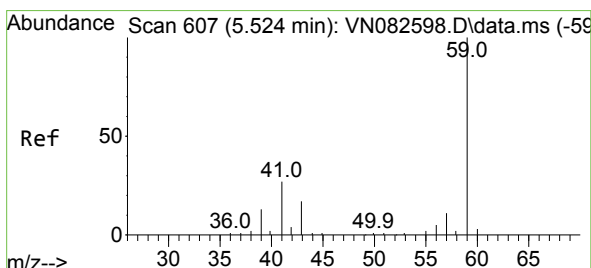
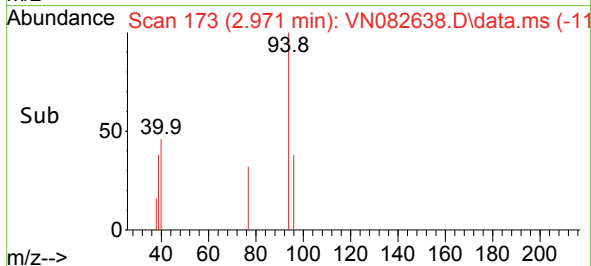
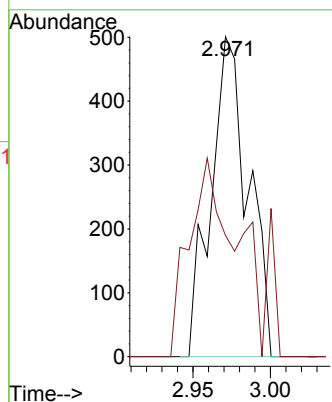


#5
Bromomethane
Concen: 0.607 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN082638.D
Acq: 19 Jun 2024 13:57

Instrument :
MSVOA_N
ClientSampleId :

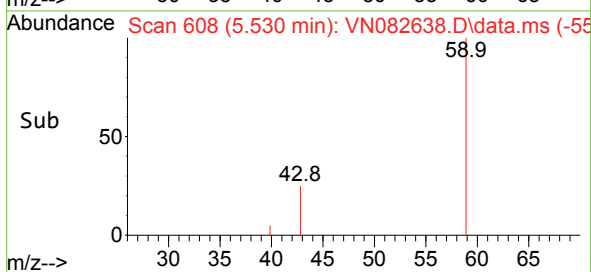
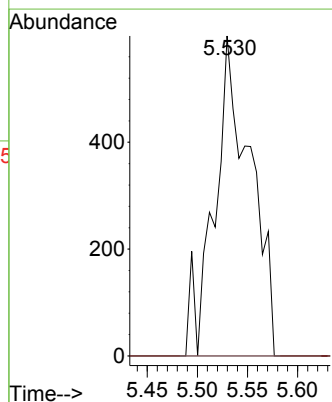
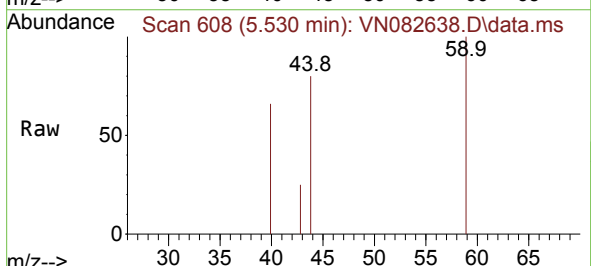


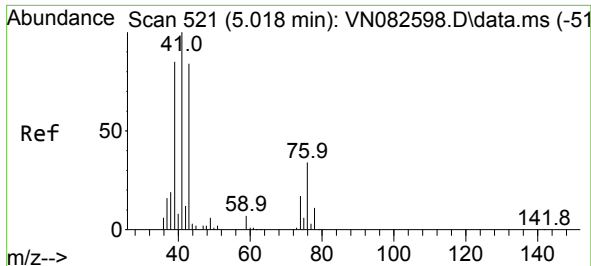
Tgt Ion: 94 Resp: 836
Ion Ratio Lower Upper
94 100
96 37.9 78.0 117.0#



#11
Tert butyl alcohol
Concen: 4.251 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.006 min
Lab File: VN082638.D
Acq: 19 Jun 2024 13:57

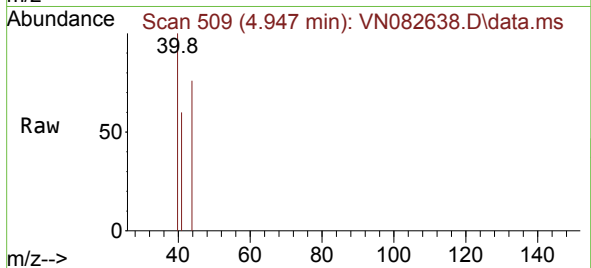
Tgt Ion: 59 Resp: 1499
Ion Ratio Lower Upper
59 100
57 0.0 8.9 13.3#



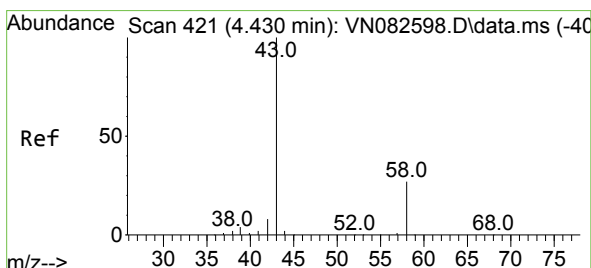
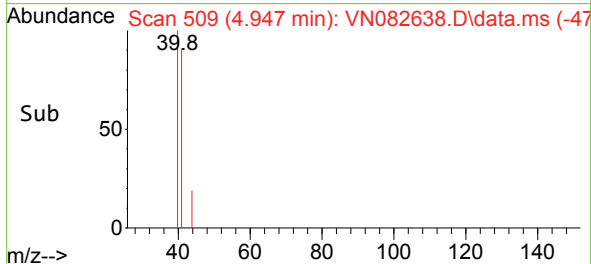
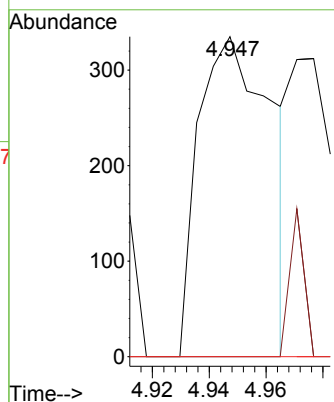


#14
 Allyl chloride
 Concen: 0.205 ug/l
 RT: 4.947 min Scan# 509
 Delta R.T. -0.071 min
 Lab File: VN082638.D
 Acq: 19 Jun 2024 13:57

Instrument :
 MSVOA_N
 ClientSampleId :

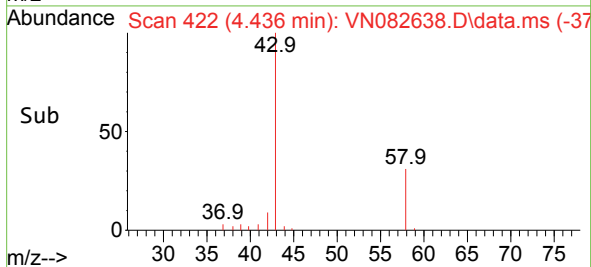
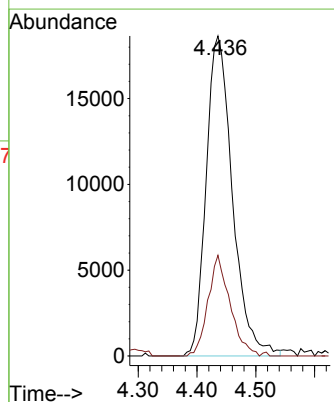
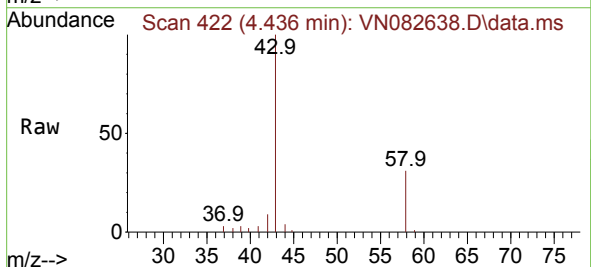


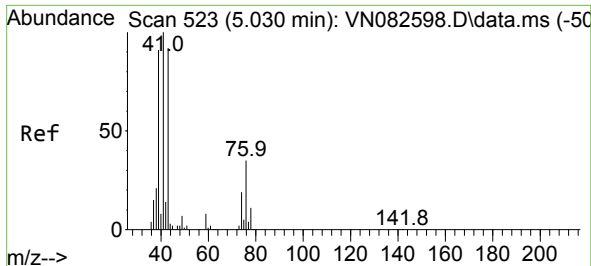
Tgt Ion: 41 Resp: 599
 Ion Ratio Lower Upper
 41 100
 39 0.0 67.8 101.6#
 76 0.0 25.8 38.8#



#16
 Acetone
 Concen: 59.014 ug/l
 RT: 4.436 min Scan# 422
 Delta R.T. 0.006 min
 Lab File: VN082638.D
 Acq: 19 Jun 2024 13:57

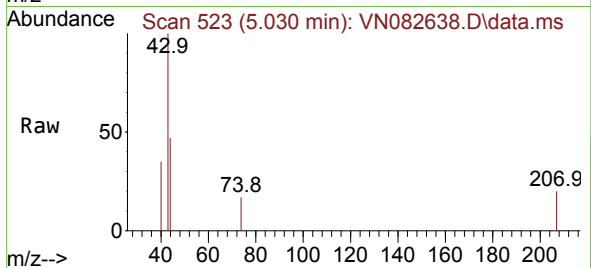
Tgt Ion: 43 Resp: 57824
 Ion Ratio Lower Upper
 43 100
 58 31.5 21.8 32.6



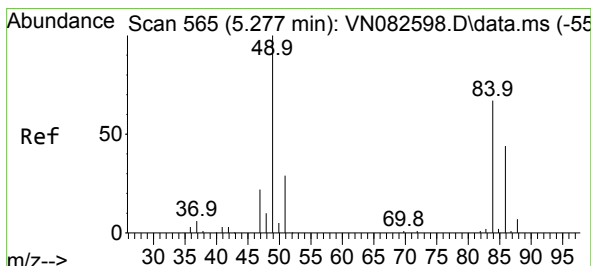
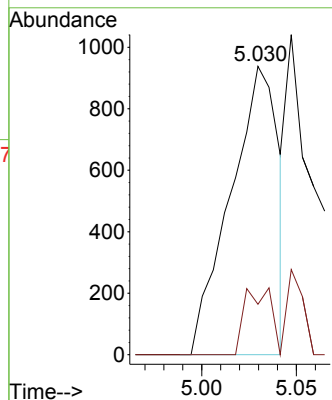
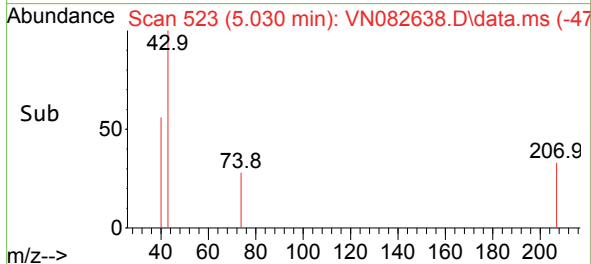


#18
Methyl Acetate
Concen: 0.690 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN082638.D
Acq: 19 Jun 2024 13:57

Instrument :
MSVOA_N
ClientSampleId :

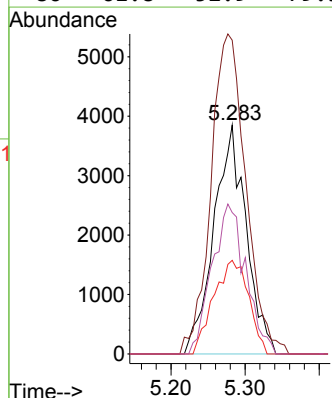
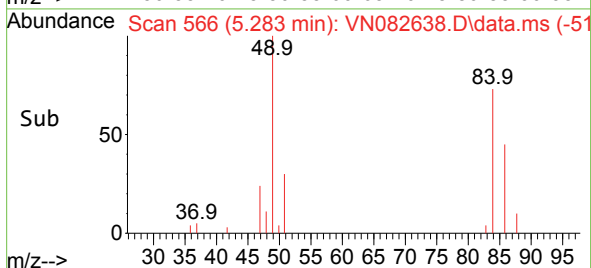
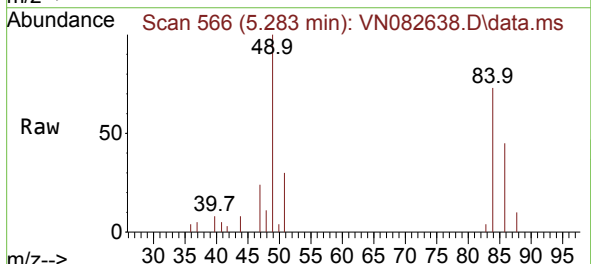


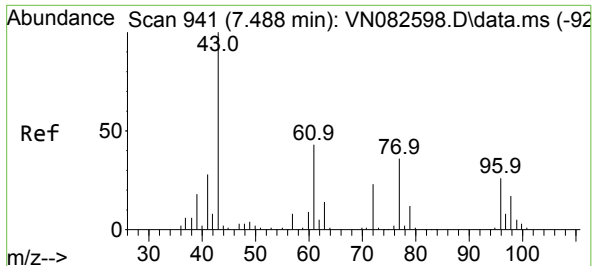
Tgt Ion: 43 Resp: 1654
Ion Ratio Lower Upper
43 100
74 12.8 16.3 24.5#



#20
Methylene Chloride
Concen: 6.758 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.006 min
Lab File: VN082638.D
Acq: 19 Jun 2024 13:57

Tgt Ion: 84 Resp: 11642
Ion Ratio Lower Upper
84 100
49 137.1 119.6 179.4
51 40.9 34.8 52.2
86 61.8 52.9 79.3

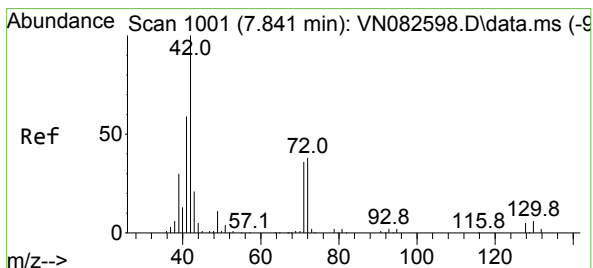
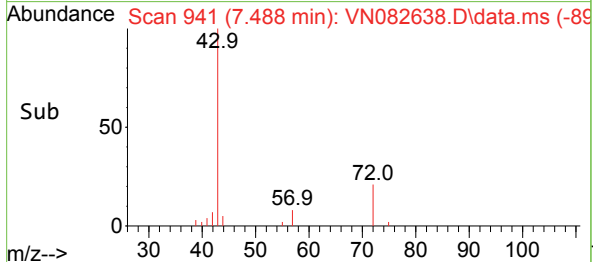
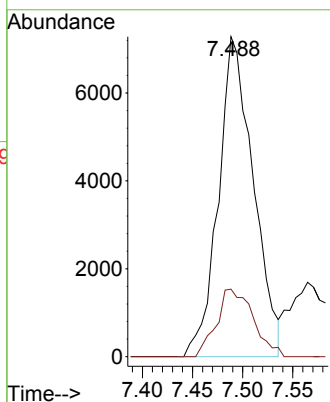
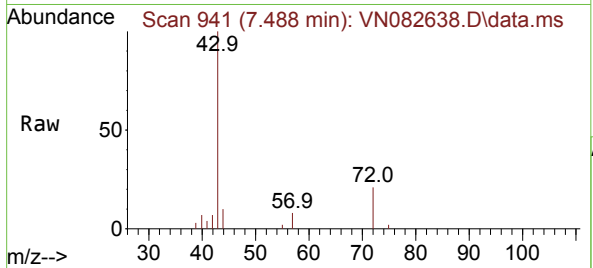




#25
2-Butanone
Concen: 12.670 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN082638.D
Acq: 19 Jun 2024 13:57

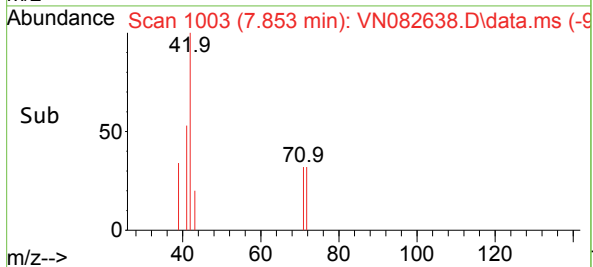
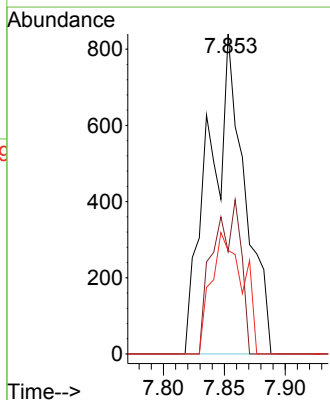
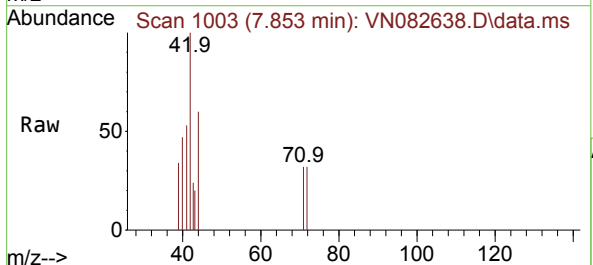
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MSVOA_N
ClientSampleId :

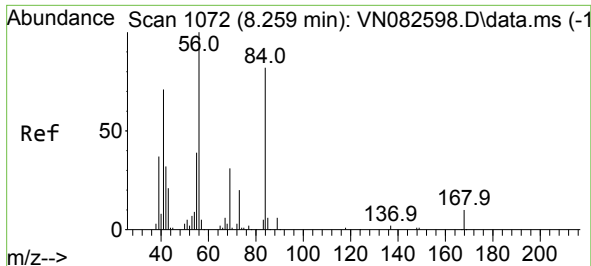
Tgt Ion: 43 Resp: 17645
Ion Ratio Lower Upper
43 100
72 21.1 18.2 27.2



#29
Tetrahydrofuran
Concen: 1.995 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.012 min
Lab File: VN082638.D
Acq: 19 Jun 2024 13:57

Tgt Ion: 42 Resp: 1701
Ion Ratio Lower Upper
42 100
72 37.3 30.0 45.0
71 33.7 28.3 42.5

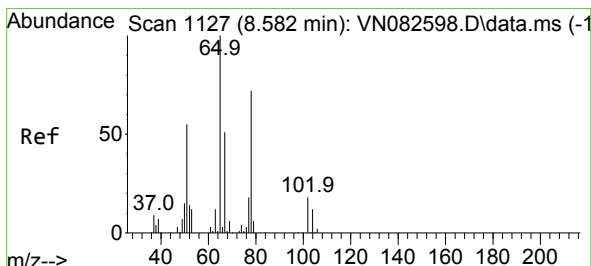
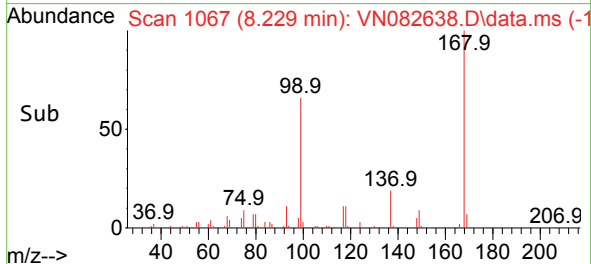
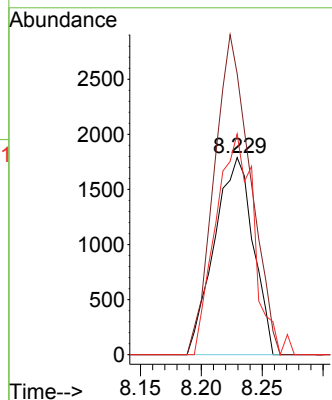
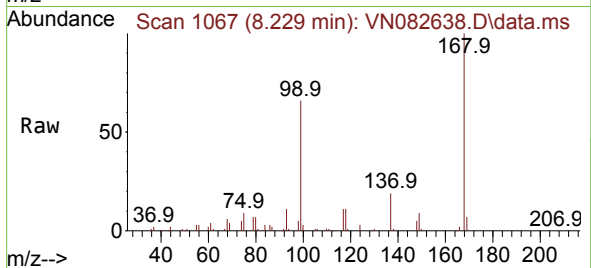




#31
Cyclohexane
Concen: 1.276 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN082638.D
Acq: 19 Jun 2024 13:57

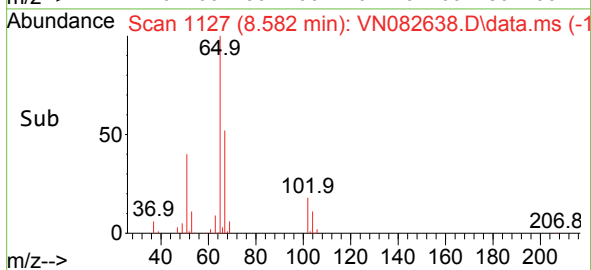
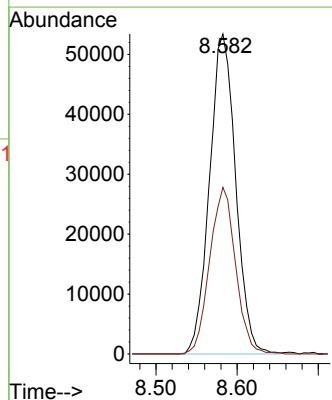
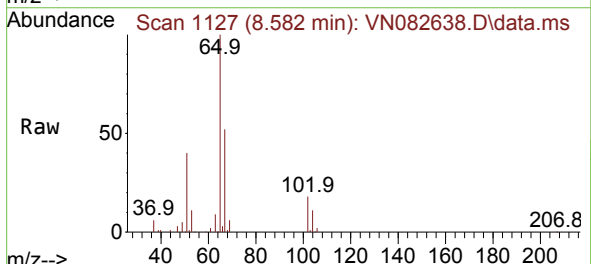
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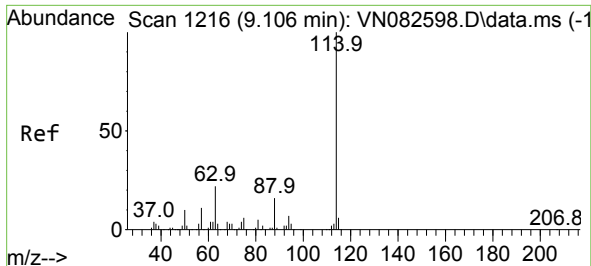
Tgt Ion: 56 Resp: 3967
Ion Ratio Lower Upper
56 100
69 142.6 24.5 36.7#
84 112.1 66.0 99.0#



#33
1,2-Dichloroethane-d4
Concen: 55.500 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN082638.D
Acq: 19 Jun 2024 13:57

Tgt Ion: 65 Resp: 119573
Ion Ratio Lower Upper
65 100
67 51.4 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

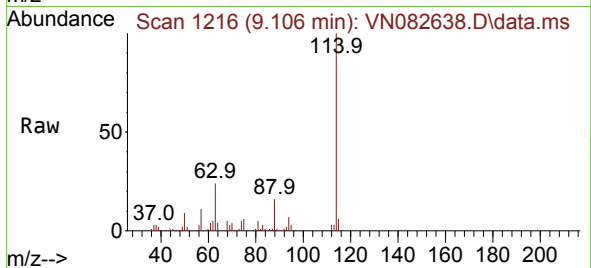
Lab File: VN082638.D

Acq: 19 Jun 2024 13:57

Instrument :

MSVOA_N

ClientSampleId :



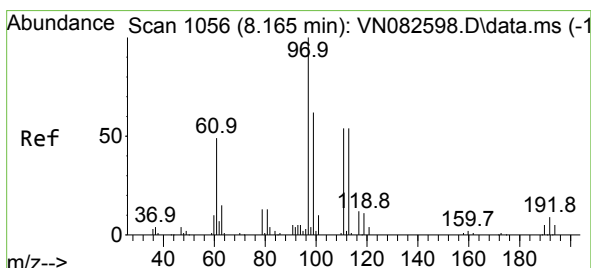
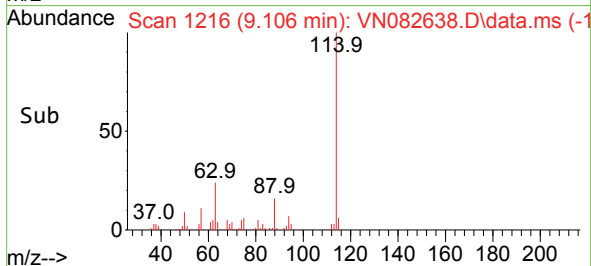
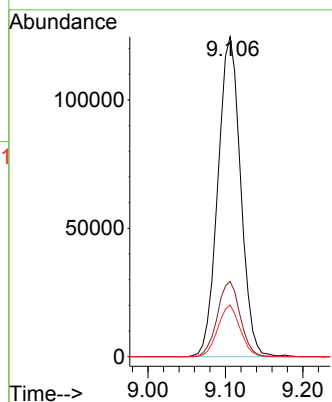
Tgt Ion:114 Resp: 253432

Ion Ratio Lower Upper

114 100

63 23.5 0.0 44.6

88 16.1 0.0 31.4



#35

Dibromofluoromethane

Concen: 51.408 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN082638.D

Acq: 19 Jun 2024 13:57

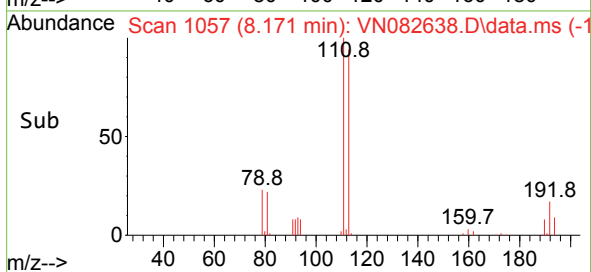
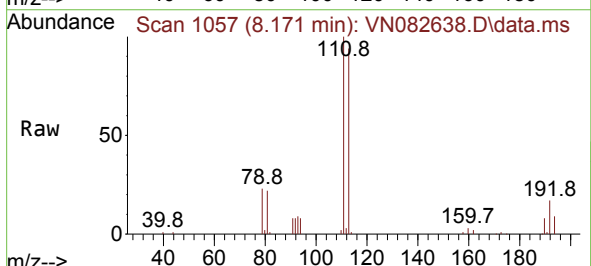
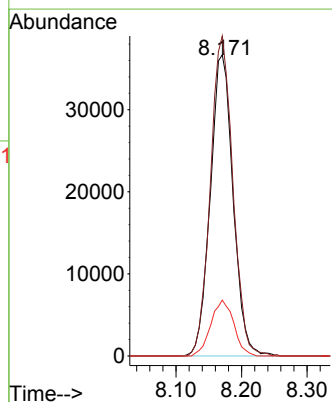
Tgt Ion:113 Resp: 88383

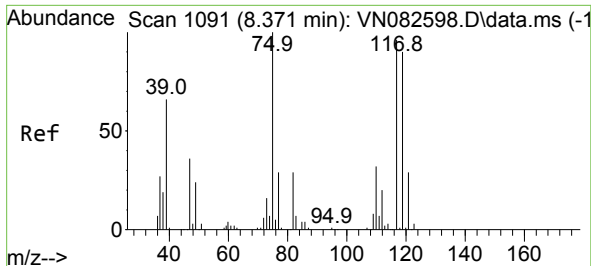
Ion Ratio Lower Upper

113 100

111 104.9 82.4 123.6

192 18.7 14.9 22.3





#36

1,1-Dichloropropene

Concen: 4.676 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.147 min

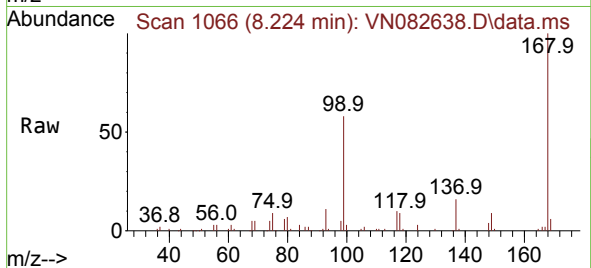
Lab File: VN082638.D

Acq: 19 Jun 2024 13:57

Instrument :

MSVOA_N

ClientSampleId :



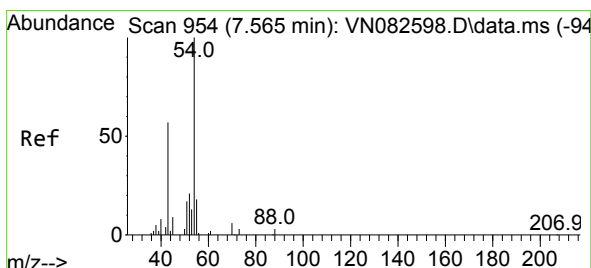
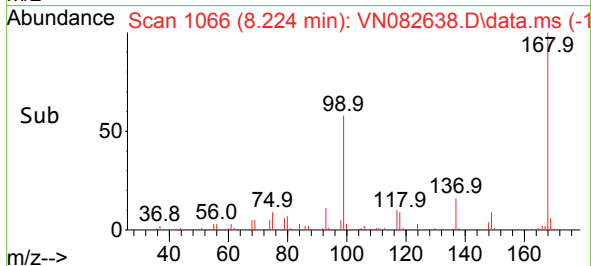
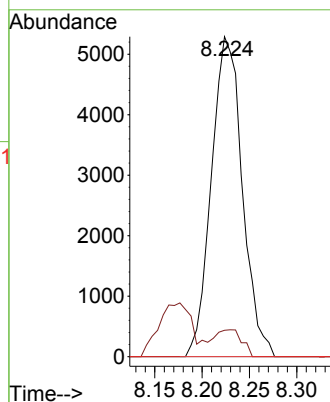
Tgt Ion: 75 Resp: 12019

Ion Ratio Lower Upper

75 100

110 7.3 16.3 48.9#

77 0.0 24.6 37.0#



#37

Ethyl Acetate

Concen: 1.240 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.000 min

Lab File: VN082638.D

Acq: 19 Jun 2024 13:57

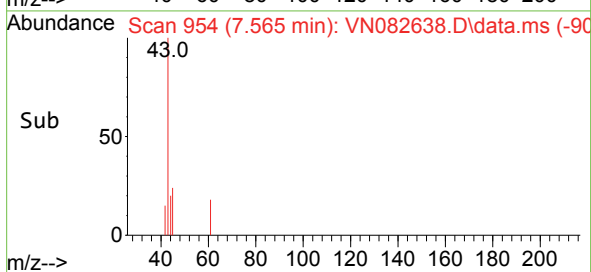
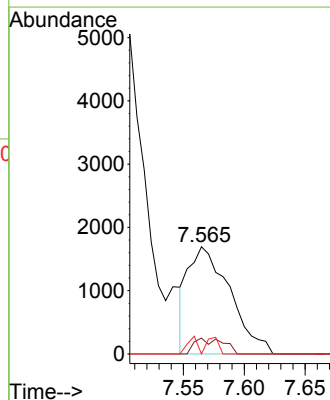
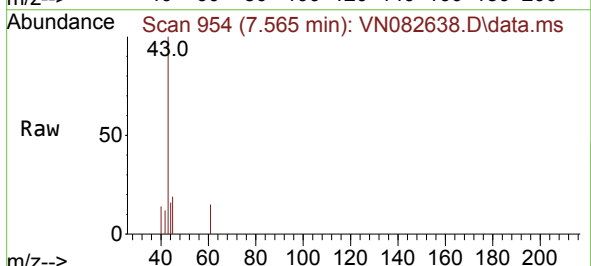
Tgt Ion: 43 Resp: 4060

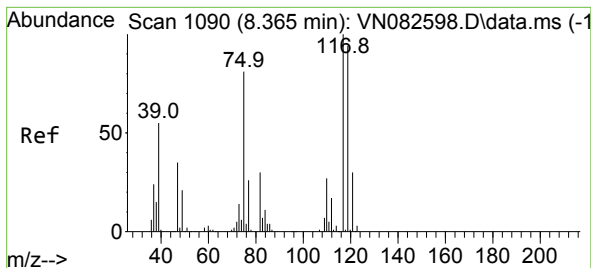
Ion Ratio Lower Upper

43 100

61 10.1 9.3 13.9

70 3.8 7.0 10.6#





#38

Carbon Tetrachloride

Concen: 4.854 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.135 min

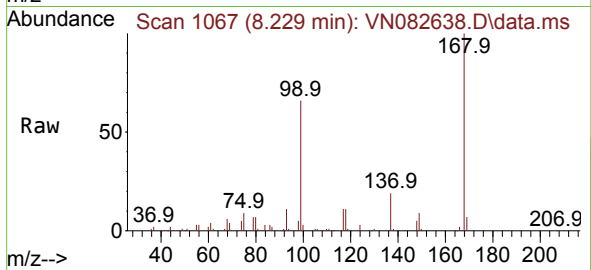
Lab File: VN082638.D

Acq: 19 Jun 2024 13:57

Instrument :

MSVOA_N

ClientSampleId :



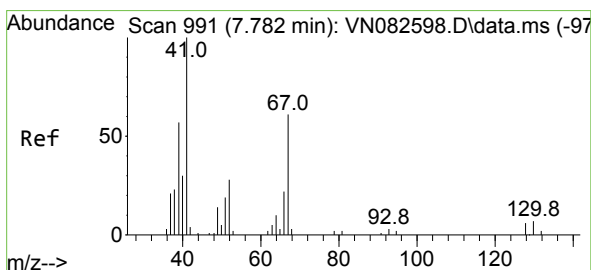
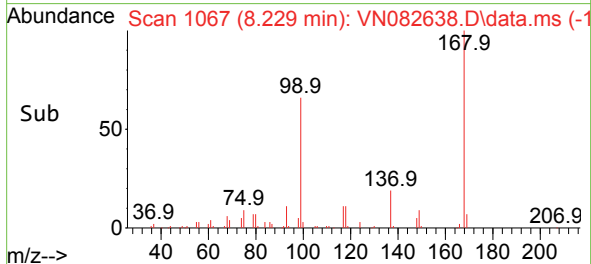
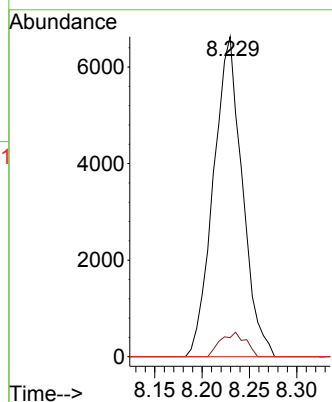
Tgt Ion:117 Resp: 14059

Ion Ratio Lower Upper

117 100

119 6.0 74.9 112.3#

121 0.0 24.3 36.5#



#41

Methacrylonitrile

Concen: 0.722 ug/l

RT: 7.859 min Scan# 1004

Delta R.T. 0.076 min

Lab File: VN082638.D

Acq: 19 Jun 2024 13:57

Tgt Ion: 41 Resp: 1209

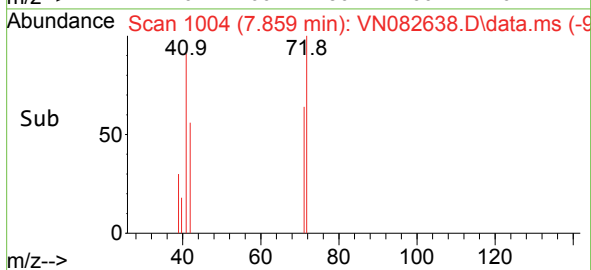
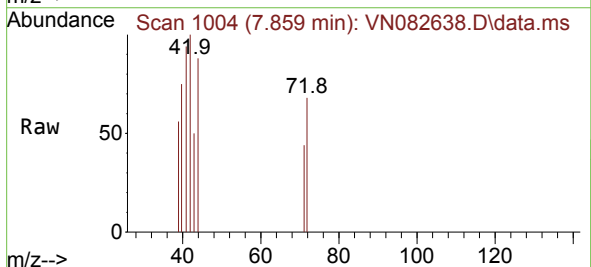
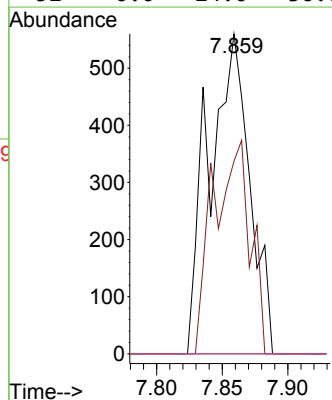
Ion Ratio Lower Upper

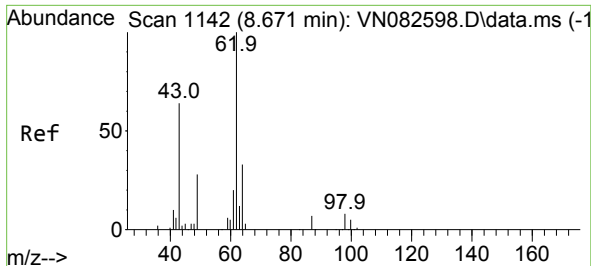
41 100

39 60.7 45.5 68.3

67 0.0 50.5 75.7#

52 0.0 24.0 36.0#





#42

1,2-Dichloroethane

Concen: 0.301 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.012 min

Lab File: VN082638.D

Acq: 19 Jun 2024 13:57

Instrument :

MSVOA_N

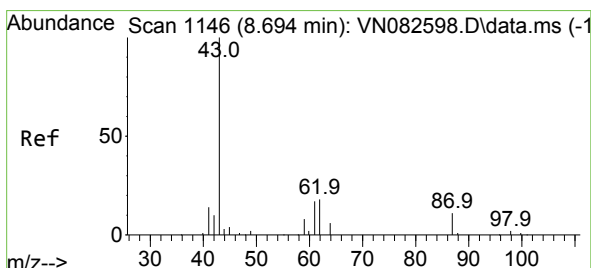
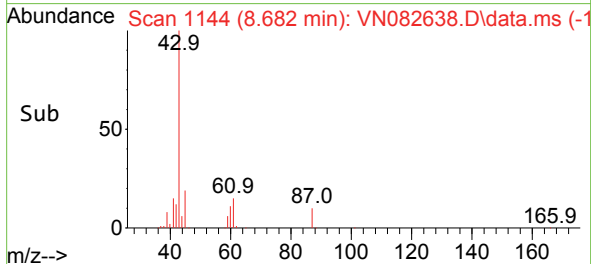
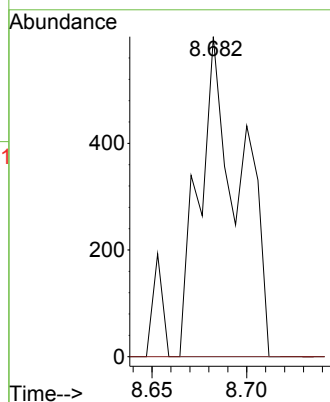
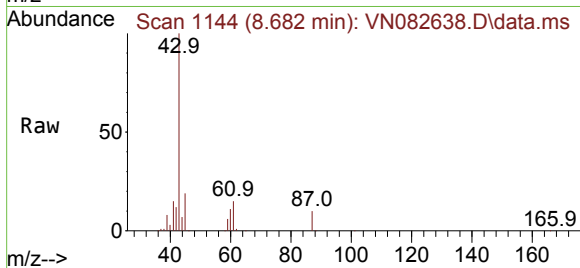
ClientSampleId :

Tgt Ion: 62 Resp: 908

Ion Ratio Lower Upper

62 100

98 0.0 0.0 15.8



#43

Isopropyl Acetate

Concen: 41.098 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN082638.D

Acq: 19 Jun 2024 13:57

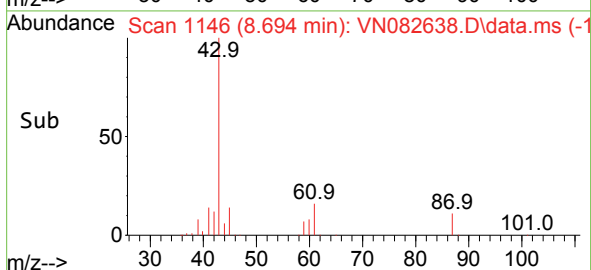
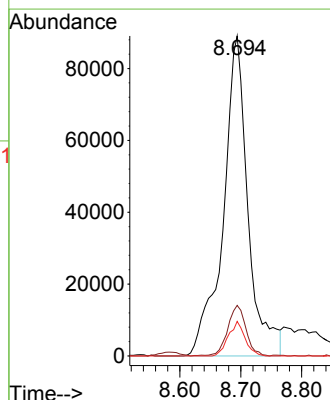
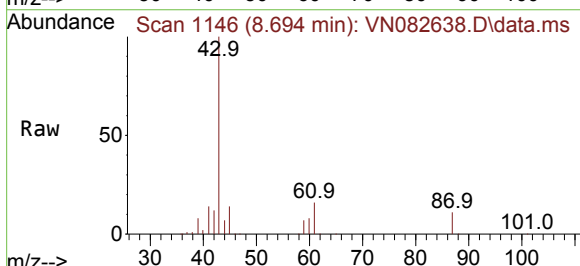
Tgt Ion: 43 Resp: 251450

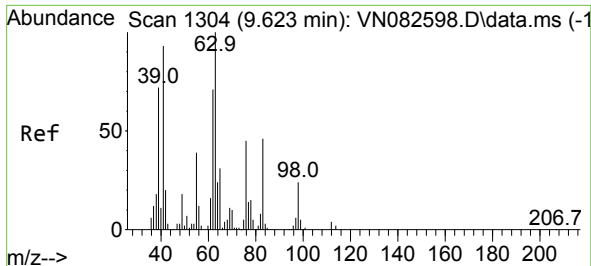
Ion Ratio Lower Upper

43 100

61 11.8 17.8 26.6#

87 7.3 8.2 12.2#





#45

1,2-Dichloropropane

Concen: 0.857 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.118 min

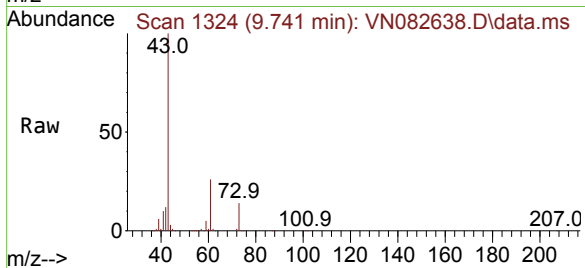
Lab File: VN082638.D

Acq: 19 Jun 2024 13:57

Instrument :

MSVOA_N

ClientSampleId :

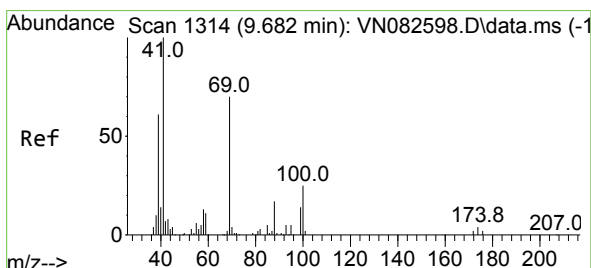
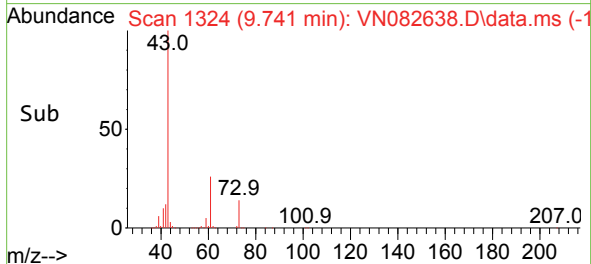
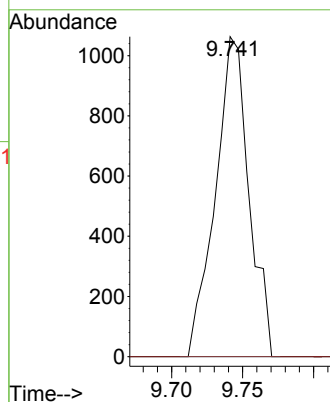


Tgt Ion: 63 Resp: 1752

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



#48

Methyl methacrylate

Concen: 2.024 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.011 min

Lab File: VN082638.D

Acq: 19 Jun 2024 13:57

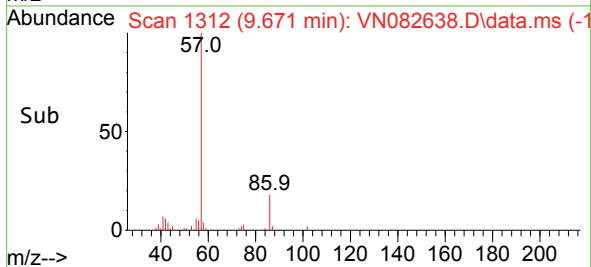
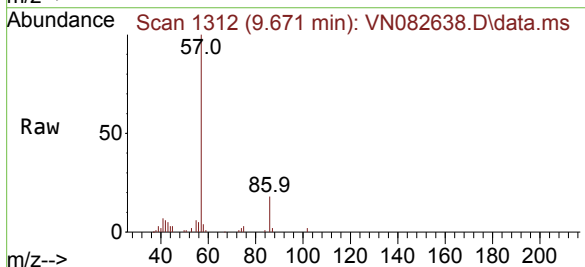
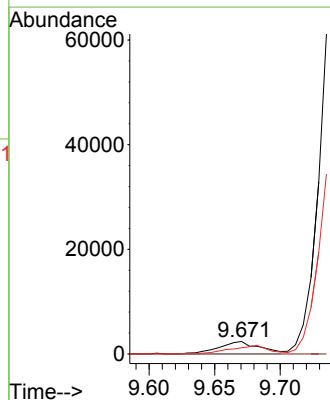
Tgt Ion: 41 Resp: 5106

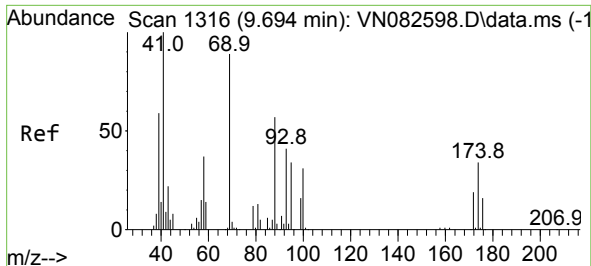
Ion Ratio Lower Upper

41 100

69 0.0 56.3 84.5#

39 63.9 50.3 75.5





#49

1,4-Dioxane

Concen: 2.129 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.053 min

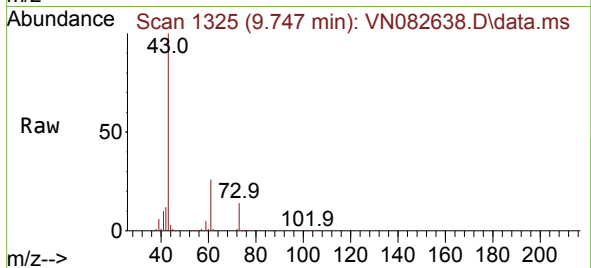
Lab File: VN082638.D

Acq: 19 Jun 2024 13:57

Instrument :

MSVOA_N

ClientSampleId :



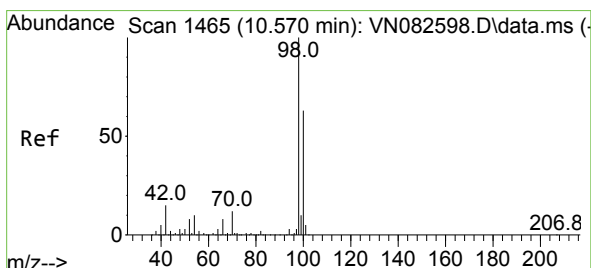
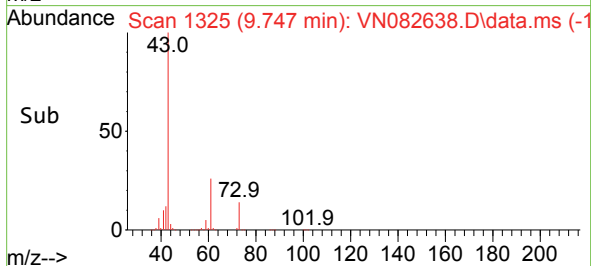
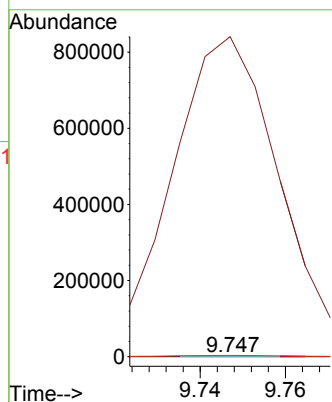
Tgt Ion: 88 Resp: 84

Ion Ratio Lower Upper

88 100

43 1792431.0 27.8 41.8#

58 8056.0 59.4 89.0#



#50

Toluene-d8

Concen: 52.891 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN082638.D

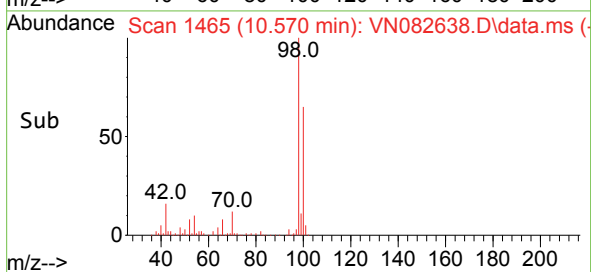
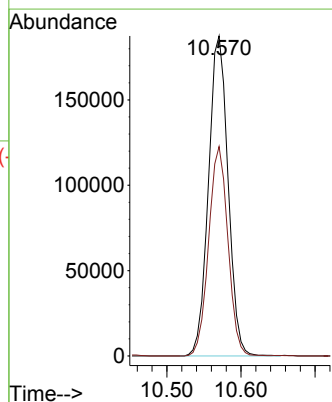
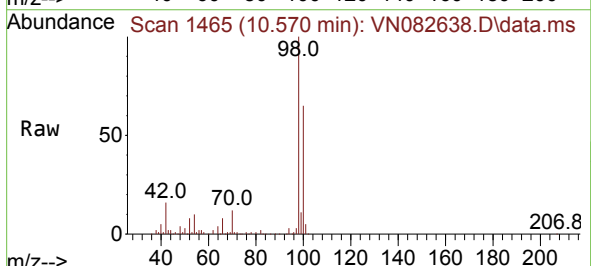
Acq: 19 Jun 2024 13:57

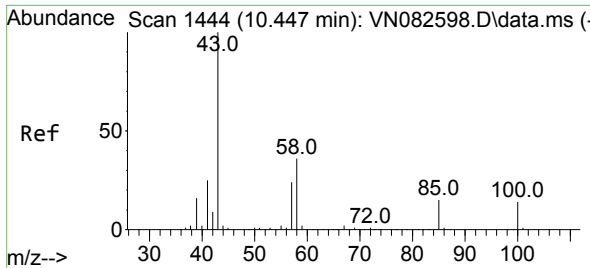
Tgt Ion: 98 Resp: 343875

Ion Ratio Lower Upper

98 100

100 64.5 51.5 77.3

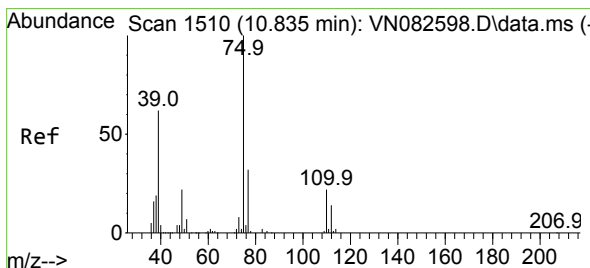
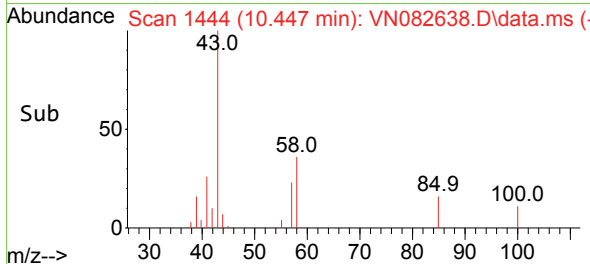
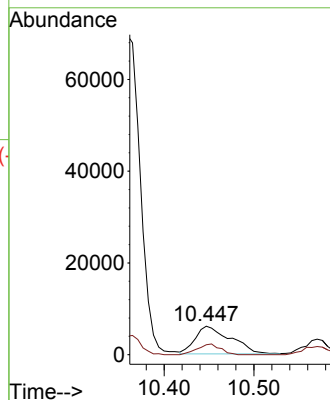
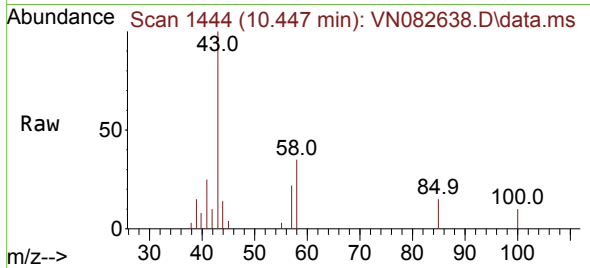




#51
4-Methyl-2-Pentanone
Concen: 5.275 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN082638.D
Acq: 19 Jun 2024 13:57

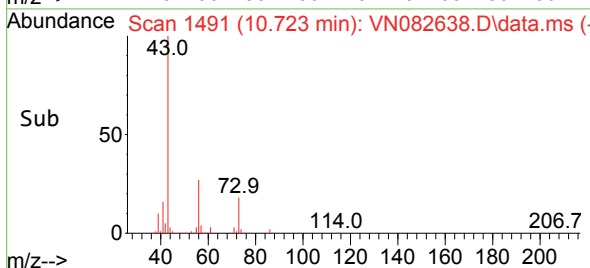
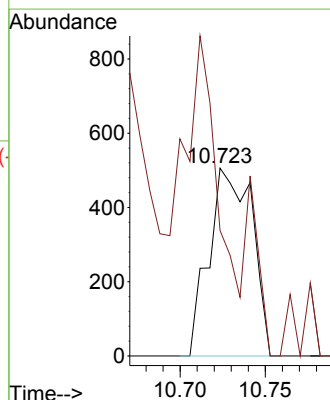
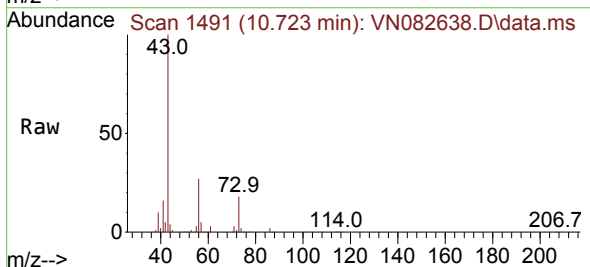
Instrument :
MSVOA_N
ClientSampleId :

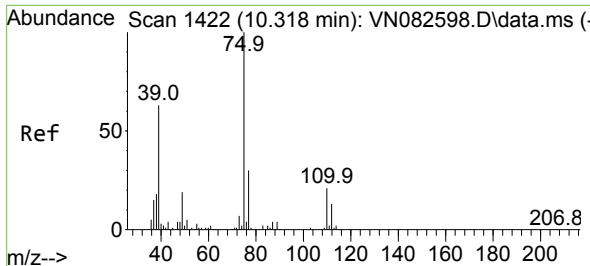
Tgt Ion: 43 Resp: 16553
Ion Ratio Lower Upper
43 100
58 25.0 28.2 42.4#



#53
t-1,3-Dichloropropene
Concen: 0.296 ug/l
RT: 10.723 min Scan# 1491
Delta R.T. -0.112 min
Lab File: VN082638.D
Acq: 19 Jun 2024 13:57

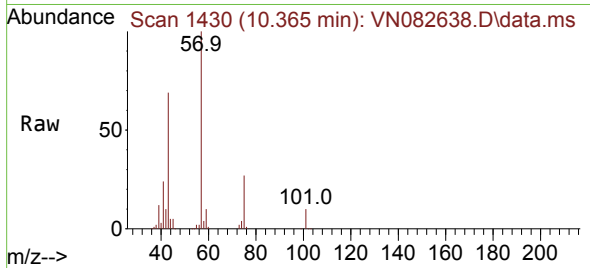
Tgt Ion: 75 Resp: 894
Ion Ratio Lower Upper
75 100
77 66.8 25.7 38.5#



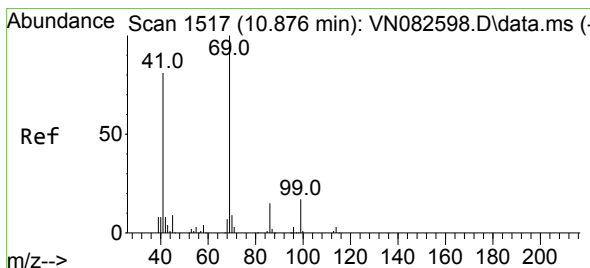
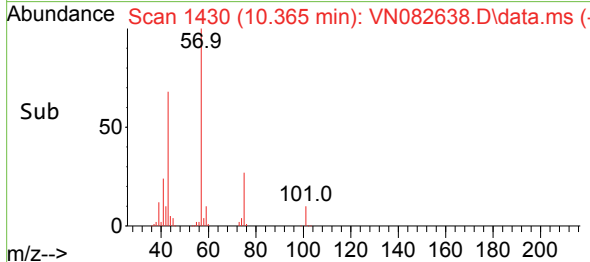
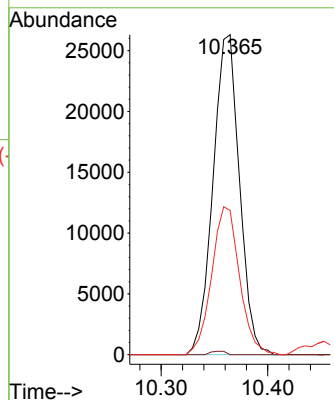


#54
 cis-1,3-Dichloropropene
 Concen: 14.490 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN082638.D
 Acq: 19 Jun 2024 13:57

Instrument :
 MSVOA_N
 ClientSampleId :

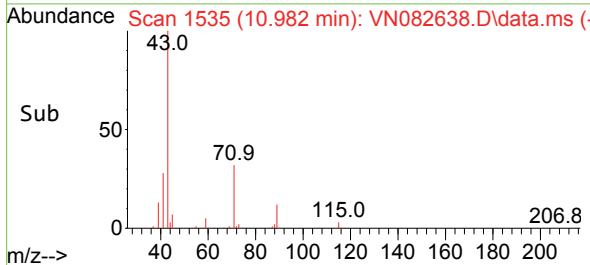
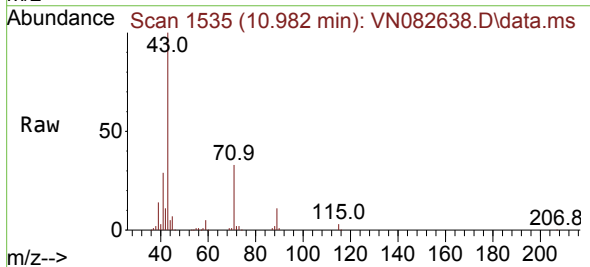
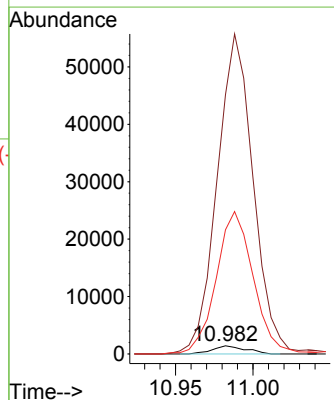


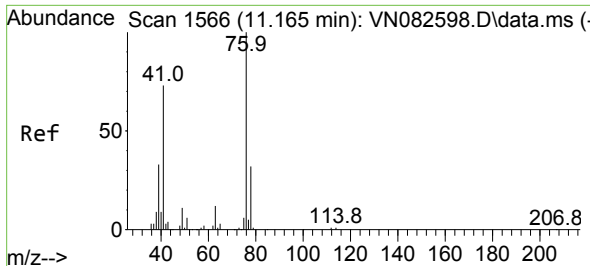
Tgt Ion: 75 Resp: 45251
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.3 36.5#
 39 45.1 50.5 75.7#



#56
 Ethyl methacrylate
 Concen: 0.730 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.106 min
 Lab File: VN082638.D
 Acq: 19 Jun 2024 13:57

Tgt Ion: 69 Resp: 2107
 Ion Ratio Lower Upper
 69 100
 41 4306.2 63.4 95.2#
 39 1968.9 37.4 56.0#





#57

1,3-Dichloropropane

Concen: 1.989 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

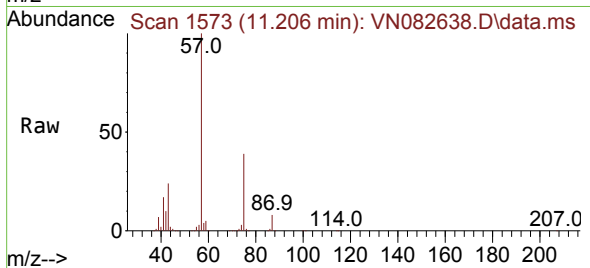
Lab File: VN082638.D

Acq: 19 Jun 2024 13:57

Instrument :

MSVOA_N

ClientSampleId :

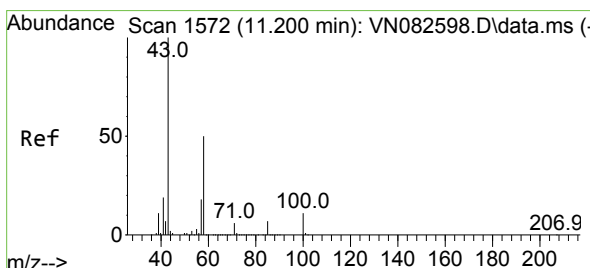
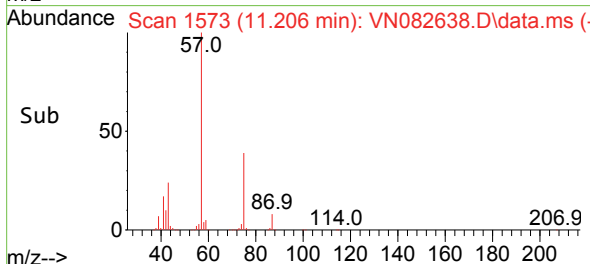
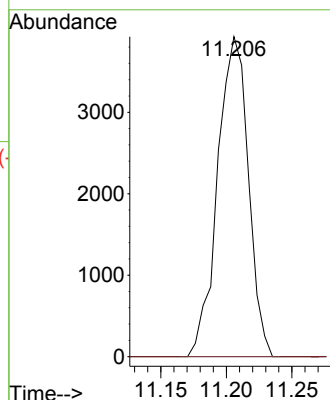


Tgt Ion: 76 Resp: 6404

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 36.801 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.006 min

Lab File: VN082638.D

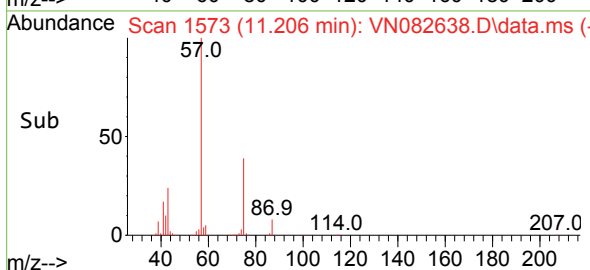
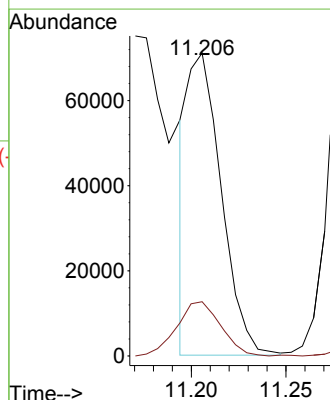
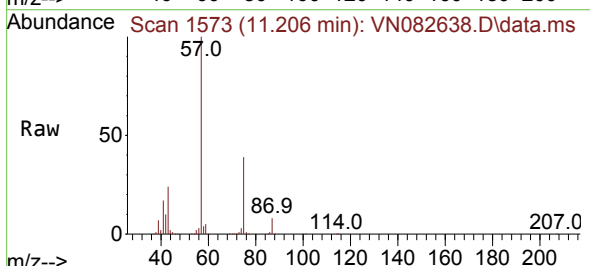
Acq: 19 Jun 2024 13:57

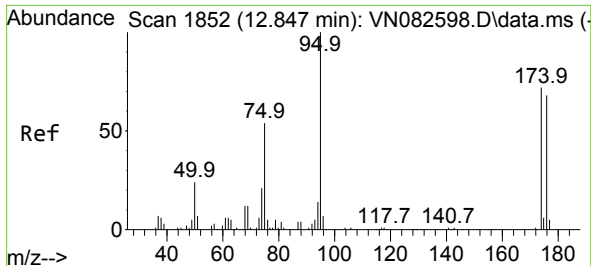
Tgt Ion: 43 Resp: 87774

Ion Ratio Lower Upper

43 100

58 23.5 24.6 73.8#





#62

4-Bromofluorobenzene

Concen: 49.459 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN082638.D

Acq: 19 Jun 2024 13:57

Instrument :

MSVOA_N

ClientSampleId :

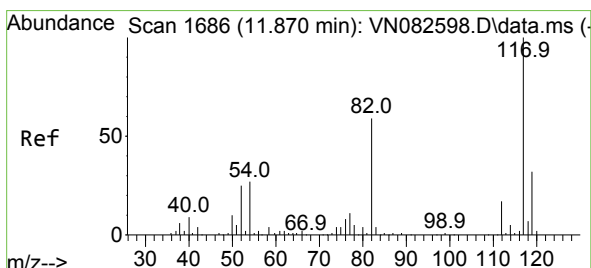
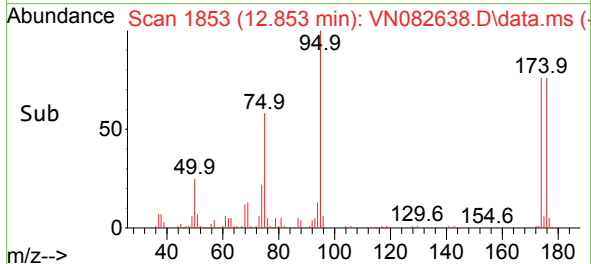
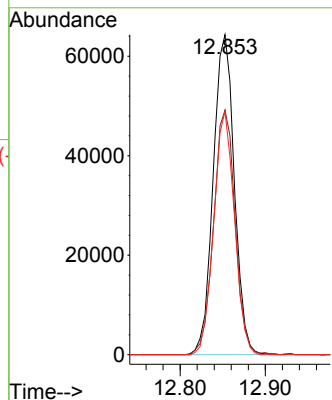
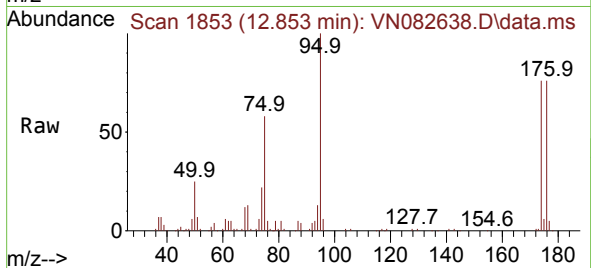
Tgt Ion: 95 Resp: 110864

Ion Ratio Lower Upper

95 100

174 77.6 0.0 159.2

176 74.4 0.0 147.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.870 min Scan# 1686

Delta R.T. 0.000 min

Lab File: VN082638.D

Acq: 19 Jun 2024 13:57

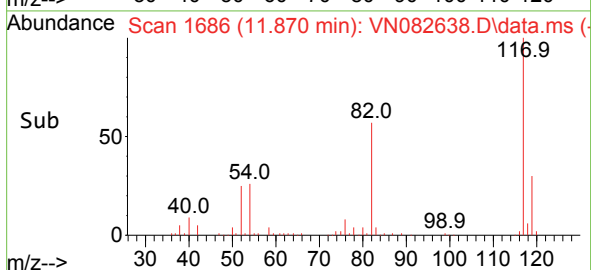
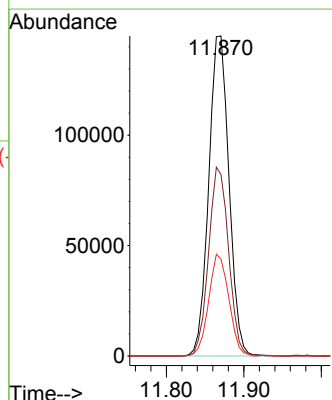
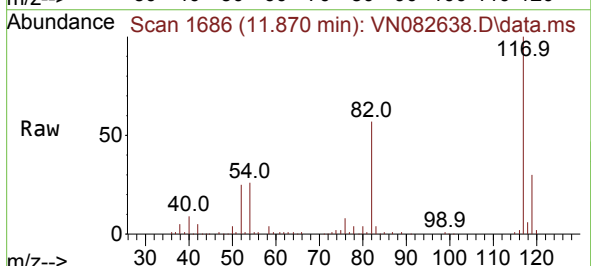
Tgt Ion: 117 Resp: 263099

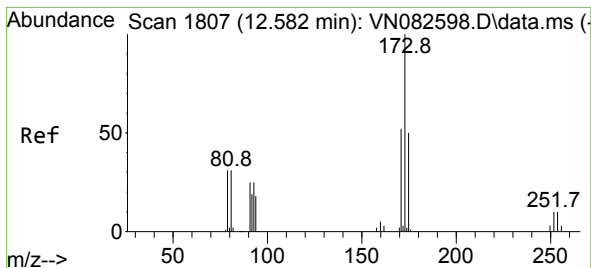
Ion Ratio Lower Upper

117 100

82 56.7 47.5 71.3

119 30.2 25.6 38.4





#71

Bromoform

Concen: 0.557 ug/l

RT: 12.853 min Scan# 1807

Delta R.T. 0.271 min

Lab File: VN082638.D

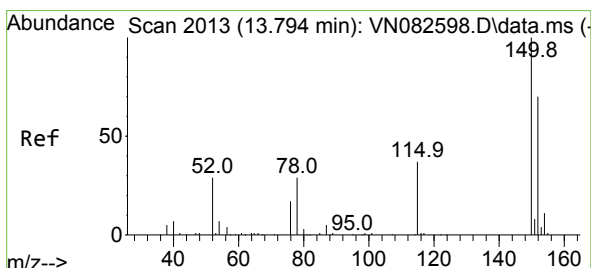
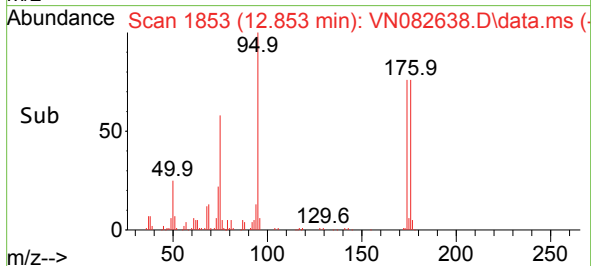
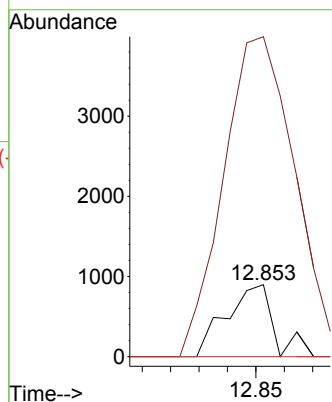
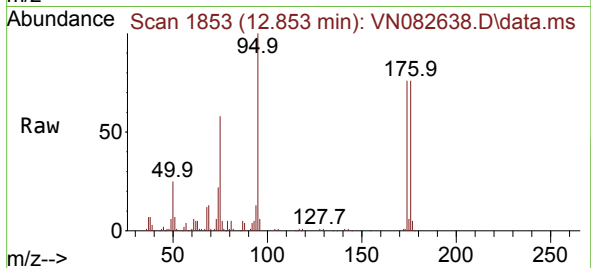
Acq: 19 Jun 2024 13:57

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:173	Resp:	948
Ion Ratio	Lower	Upper
173	100	
175	596.1	24.0 72.0#
254	0.0	0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

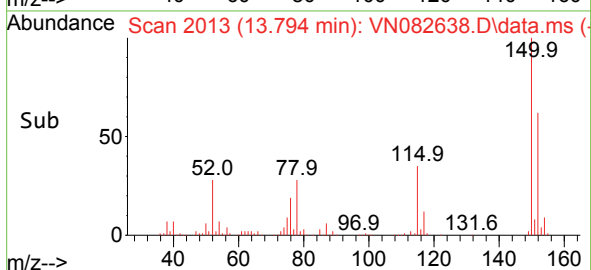
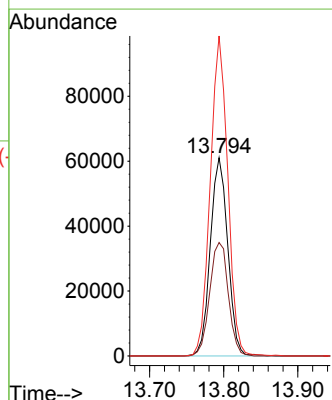
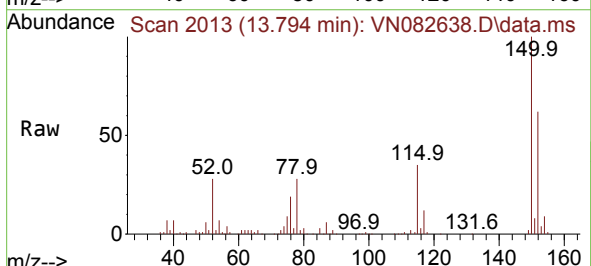
RT: 13.794 min Scan# 2013

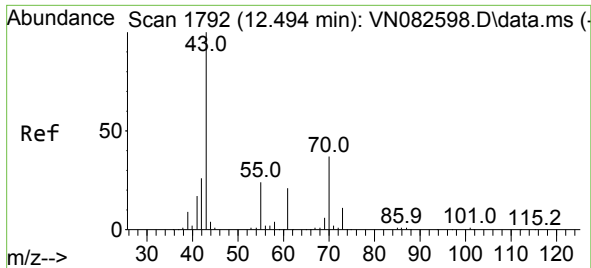
Delta R.T. 0.000 min

Lab File: VN082638.D

Acq: 19 Jun 2024 13:57

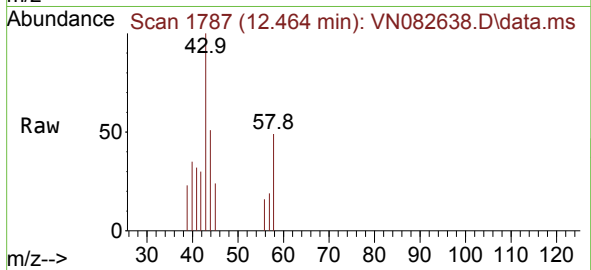
Tgt Ion:152	Resp:	100101
Ion Ratio	Lower	Upper
152	100	
115	61.0	30.6 91.6
150	161.2	0.0 348.6





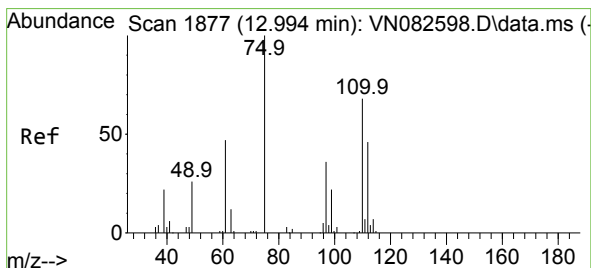
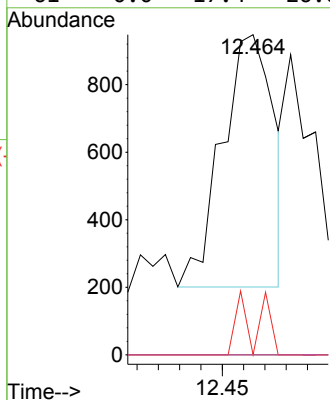
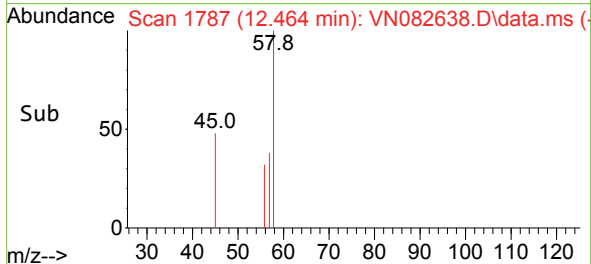
#74
N-amy1 acetate
Concen: 0.311 ug/l
RT: 12.464 min Scan# 1787
Delta R.T. -0.029 min
Lab File: VN082638.D
Acq: 19 Jun 2024 13:57

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 43 Resp: 1260

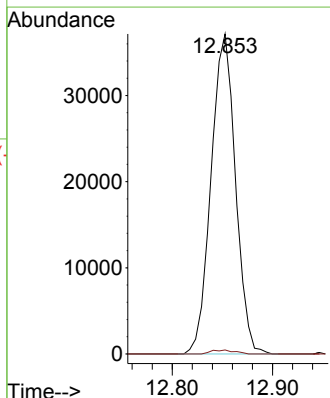
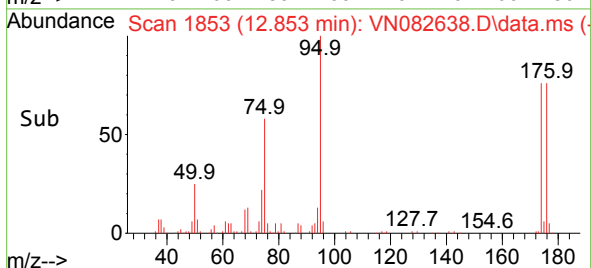
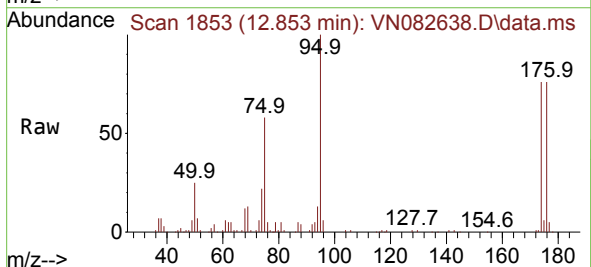
Ion	Ratio	Lower	Upper
43	100		
70	0.0	29.8	44.6#
55	10.5	18.7	28.1#
61	0.0	17.4	26.0#

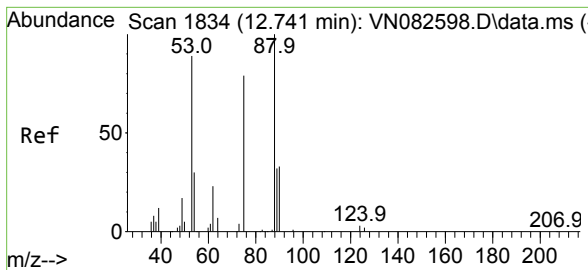


#76
1,2,3-Trichloropropane
Concen: 25.654 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN082638.D
Acq: 19 Jun 2024 13:57

Tgt Ion: 75 Resp: 62810

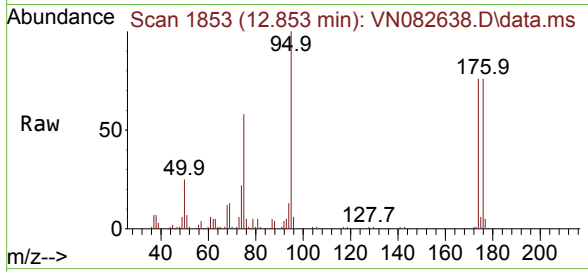
Ion	Ratio	Lower	Upper
75	100		
77	1.2	110.9	332.6#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.376 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN082638.D
 Acq: 19 Jun 2024 13:57

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#

