

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091224\
 Data File : VN083860.D
 Acq On : 13 Sep 2024 07:48
 Operator : JC\MD
 Sample : P3957-15
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 13 08:52:35 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 15:18:56 2024
 Response via : Initial Calibration

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

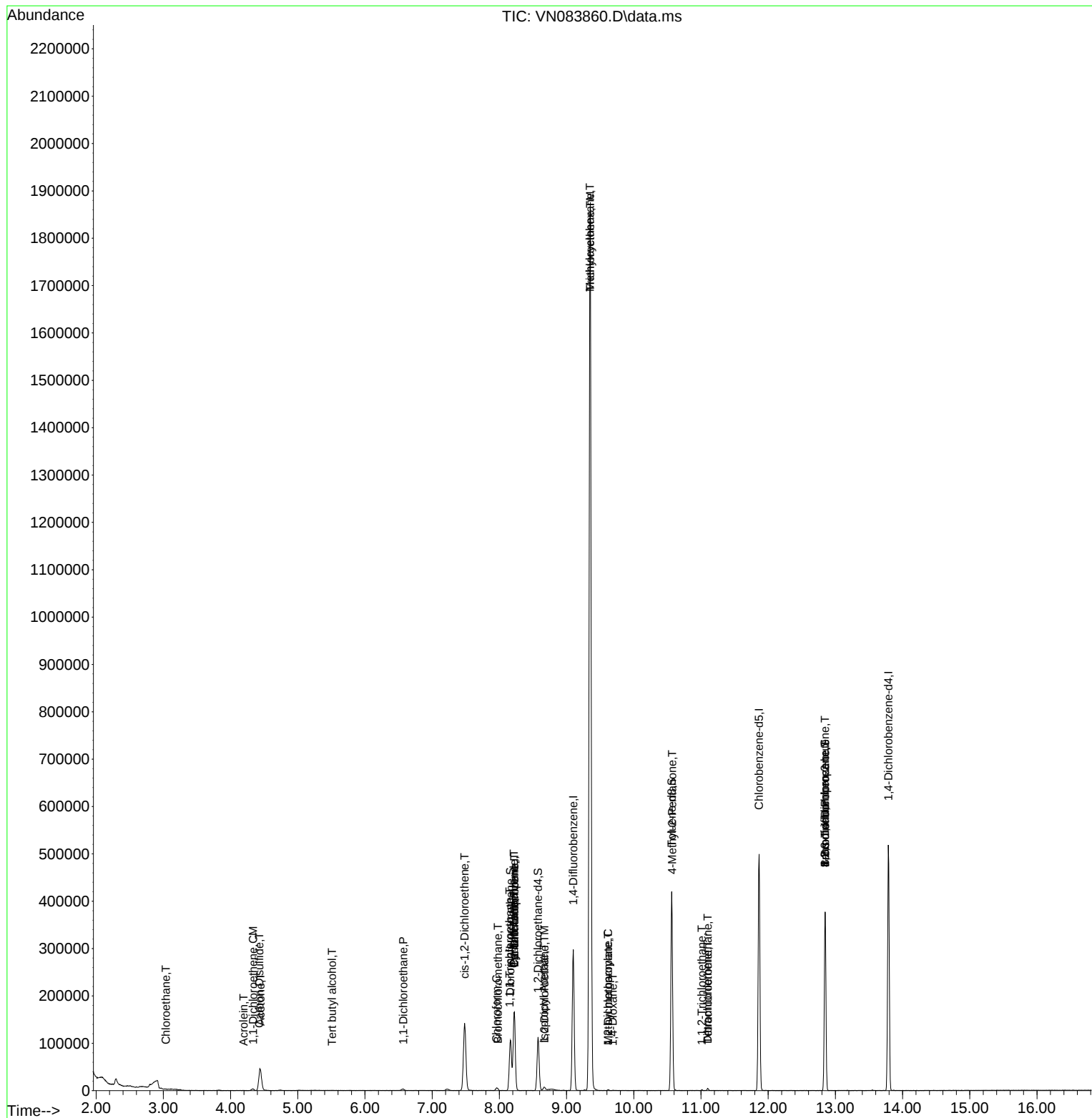
Internal Standards						
1) Pentafluorobenzene	8.224	168	114956	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	240578	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	273770	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130542	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	94909	54.754	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 109.500%	
35) Dibromofluoromethane	8.165	113	74957	48.669	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 97.340%	
50) Toluene-d8	10.565	98	275567	51.756	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 103.520%	
62) 4-Bromofluorobenzene	12.847	95	127275	57.939	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 115.880%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.354	50	741	Below Cal		99
6) Chloroethane	3.036	64	710	0.692 ug/l	#	45
11) Tert butyl alcohol	5.512	59	65	0.280 ug/l	#	71
12) 1,1-Dichloroethene	4.336	96	2072	1.666 ug/l	#	84
13) Acrolein	4.195	56	56	0.245 ug/l	#	13
16) Acetone	4.448	43	1512	2.176 ug/l	#	45
17) Carbon Disulfide	4.430	76	1669	0.480 ug/l	#	75
18) Methyl Acetate	5.024	43	1591	Below Cal	#	59
24) 1,1-Dichloroethane	6.571	63	5197	1.978 ug/l	#	82
27) cis-1,2-Dichloroethene	7.483	96	81086	51.261 ug/l		92
28) Bromochloromethane	7.977	49	320	0.289 ug/l	#	14
30) Chloroform	7.959	83	5699	2.043 ug/l		90
31) Cyclohexane	8.218	56	2902	1.158 ug/l	#	8
32) 1,1,1-Trichloroethane	8.153	97	737	0.287 ug/l	#	39
36) 1,1-Dichloropropene	8.224	75	10968	4.731 ug/l	#	44
38) Carbon Tetrachloride	8.218	117	13621	5.179 ug/l	#	16
39) Methylcyclohexane	9.347	83	8543	3.238 ug/l	#	1
42) 1,2-Dichloroethane	8.671	62	4907	1.882 ug/l		98
43) Isopropyl Acetate	8.665	43	1385	0.363 ug/l	#	86
44) Trichloroethene	9.353	130	648776	401.529 ug/l		95
45) 1,2-Dichloropropane	9.618	63	783	0.464 ug/l	#	42
48) Methyl methacrylate	9.618	41	554	0.306 ug/l	#	39
49) 1,4-Dioxane	9.688	88	148	4.973 ug/l	#	1
51) 4-Methyl-2-Pentanone	10.571	43	1615	0.778 ug/l	#	1
55) 1,1,2-Trichloroethane	11.012	97	489	0.307 ug/l	#	65
60) Dibromochloromethane	11.100	129	915	0.513 ug/l	#	10
64) Tetrachloroethene	11.100	164	894	0.491 ug/l	#	58
71) Bromoform	12.847	173	511	0.359 ug/l	#	1
76) 1,2,3-Trichloropropane	12.847	75	72564	27.548 ug/l	#	1
81) trans-1,4-Dichloro-2-b...	12.847	75	72564	72.151 ug/l	#	9

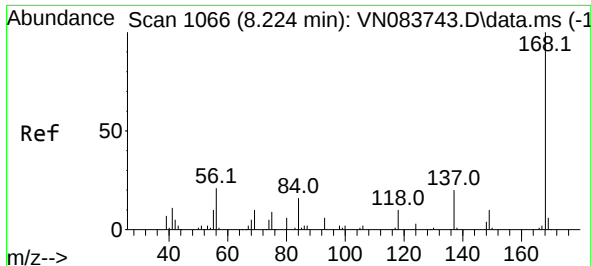
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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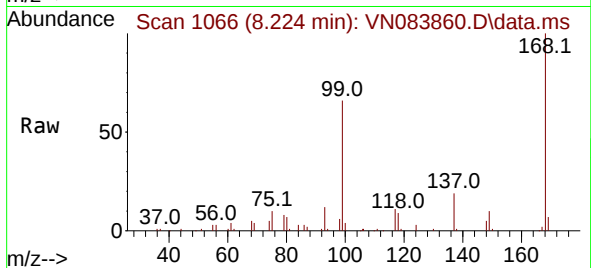
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
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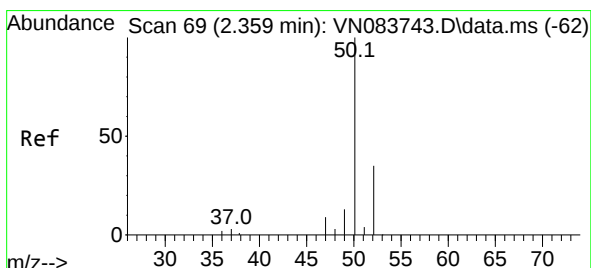
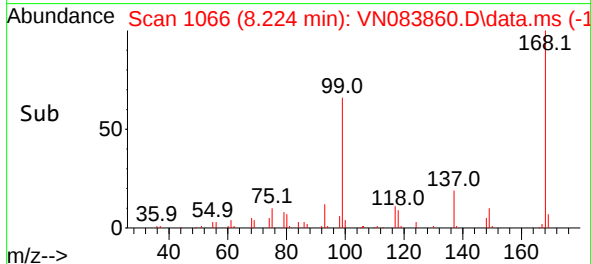
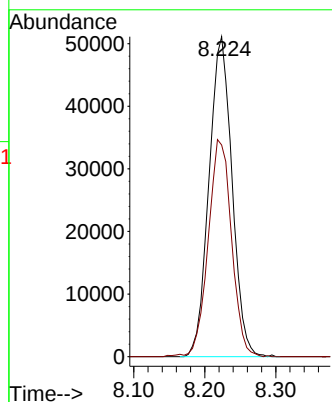


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN083860.D
Acq: 13 Sep 2024 07:48

Instrument :
MSVOA_N
ClientSampleId :

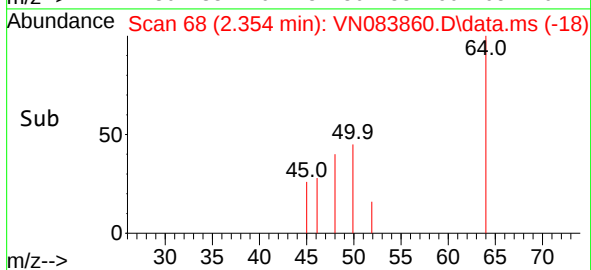
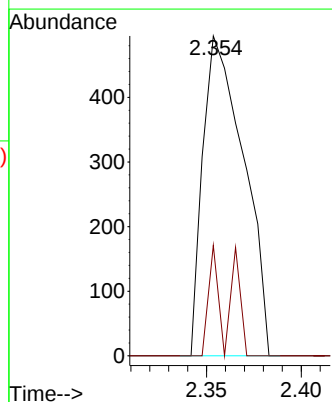
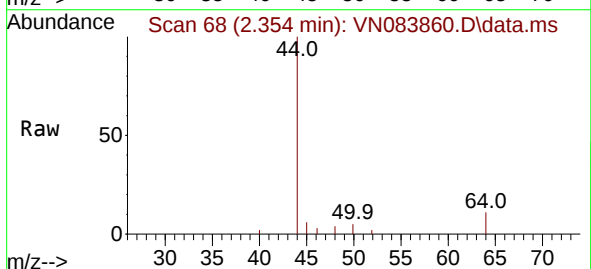


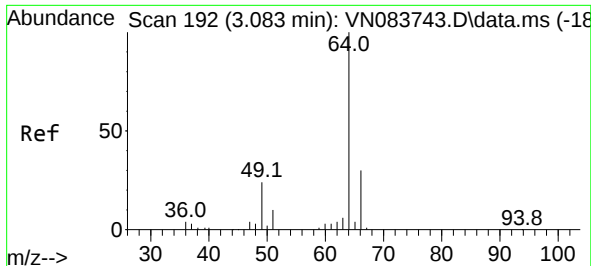
Tgt Ion:168 Resp: 114956
Ion Ratio Lower Upper
168 100
99 66.1 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.354 min Scan# 68
Delta R.T. -0.005 min
Lab File: VN083860.D
Acq: 13 Sep 2024 07:48

Tgt Ion: 50 Resp: 741
Ion Ratio Lower Upper
50 100
52 34.5 27.2 40.8

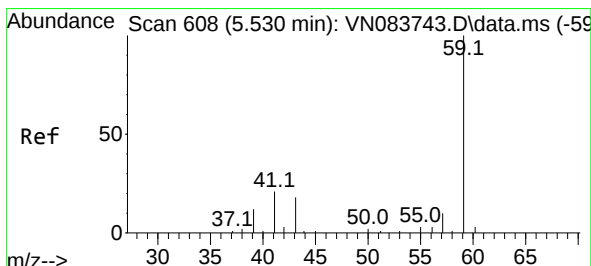
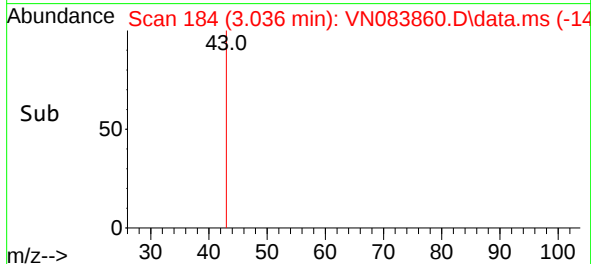
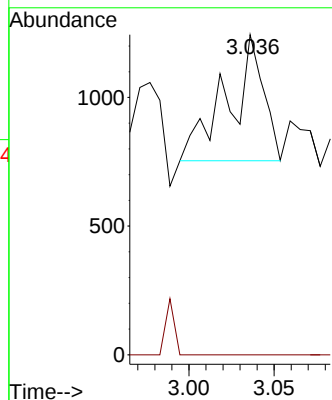
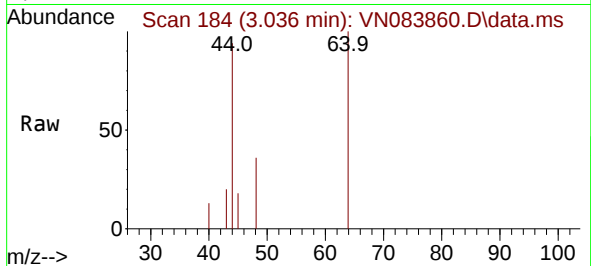




#6
Chloroethane
Concen: 0.692 ug/l
RT: 3.036 min Scan# 11
Delta R.T. -0.047 min
Lab File: VN083860.D
Acq: 13 Sep 2024 07:48

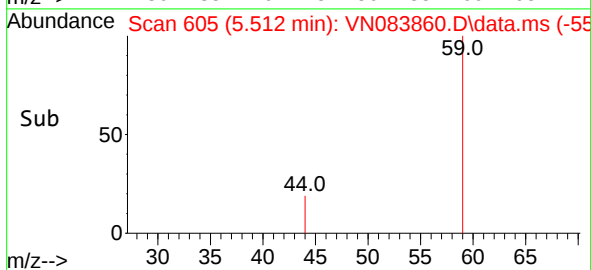
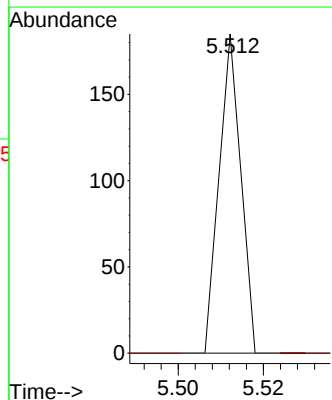
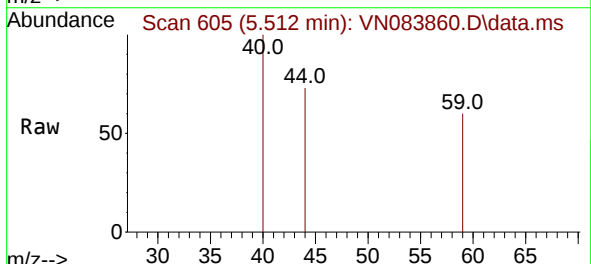
Instrument :
MSVOA_N
ClientSampleId :

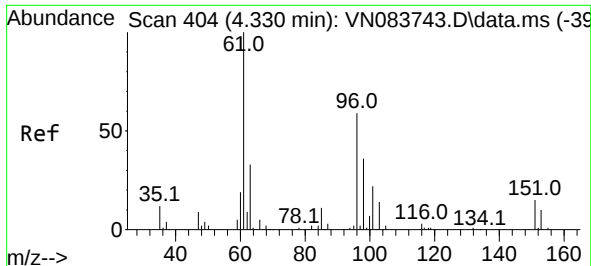
Tgt Ion: 64 Resp: 710
Ion Ratio Lower Upper
64 100
66 0.0 23.9 35.9#



#11
Tert butyl alcohol
Concen: 0.280 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.018 min
Lab File: VN083860.D
Acq: 13 Sep 2024 07:48

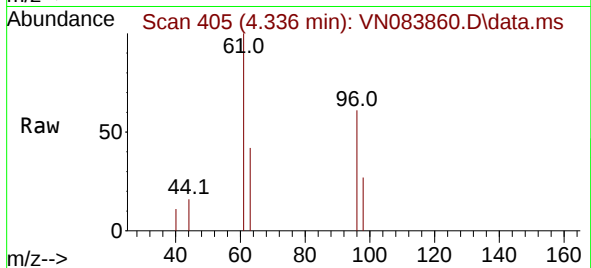
Tgt Ion: 59 Resp: 65
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



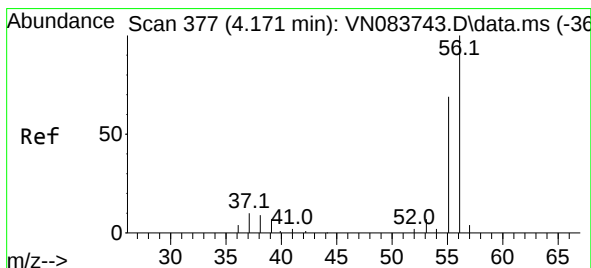
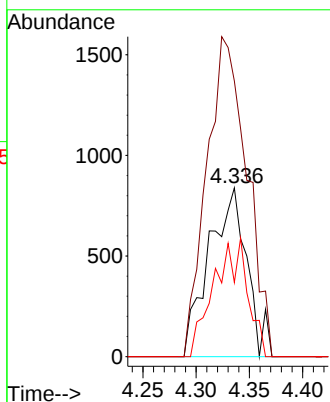
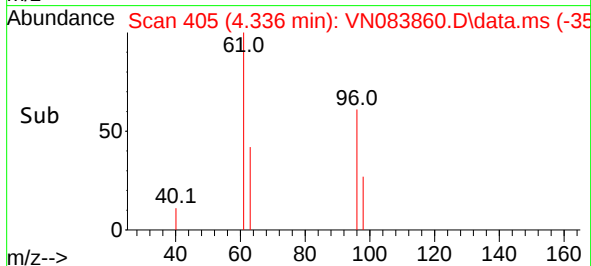


#12
 1,1-Dichloroethene
 Concen: 1.666 ug/l
 RT: 4.336 min Scan# 404
 Delta R.T. 0.006 min
 Lab File: VN083860.D
 Acq: 13 Sep 2024 07:48

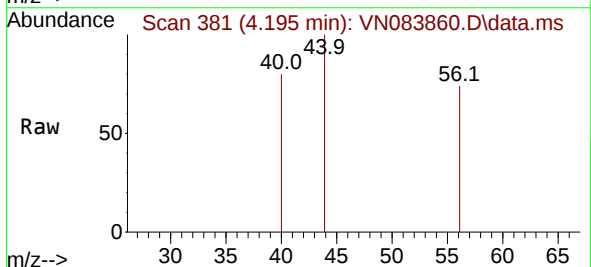
Instrument :
 MSVOA_N
 ClientSampleId :



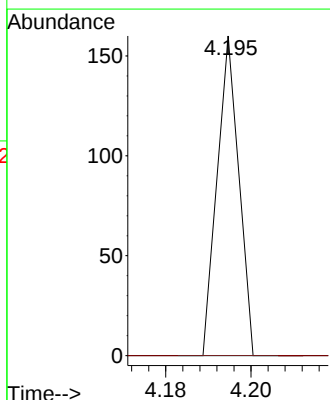
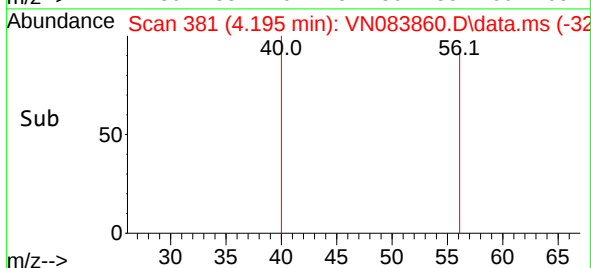
Tgt Ion: 96 Resp: 2072
 Ion Ratio Lower Upper
 96 100
 61 163.3 143.4 215.0
 98 44.0 52.7 79.1#

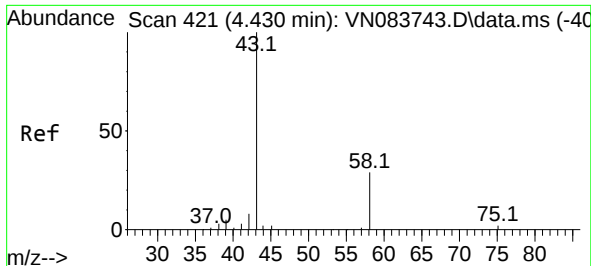


#13
 Acrolein
 Concen: 0.245 ug/l
 RT: 4.195 min Scan# 381
 Delta R.T. 0.024 min
 Lab File: VN083860.D
 Acq: 13 Sep 2024 07:48



Tgt Ion: 56 Resp: 56
 Ion Ratio Lower Upper
 56 100
 55 0.0 58.2 87.2#





#16

Acetone

Concen: 2.176 ug/l

RT: 4.448 min Scan# 41

Delta R.T. 0.018 min

Lab File: VN083860.D

Acq: 13 Sep 2024 07:48

Instrument :

MSVOA_N

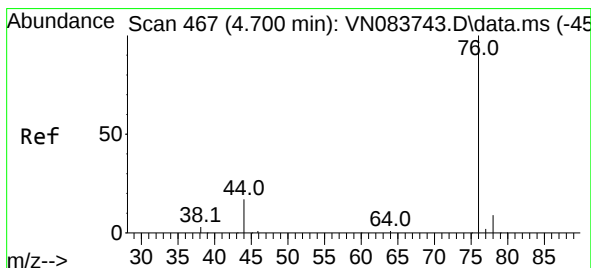
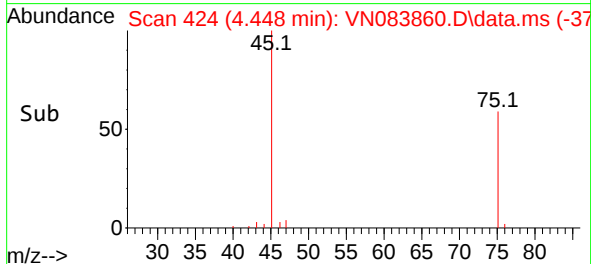
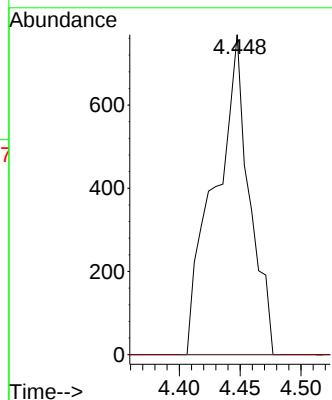
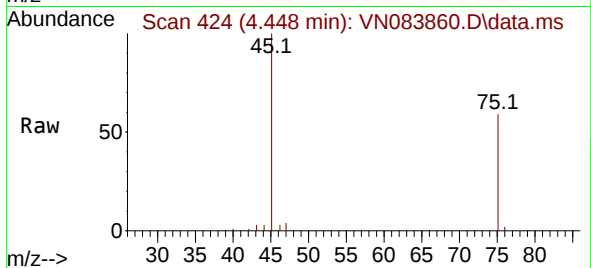
ClientSampleId :

Tgt Ion: 43 Resp: 1512

Ion Ratio Lower Upper

43 100

58 0.0 23.7 35.5#



#17

Carbon Disulfide

Concen: 0.480 ug/l

RT: 4.430 min Scan# 421

Delta R.T. -0.271 min

Lab File: VN083860.D

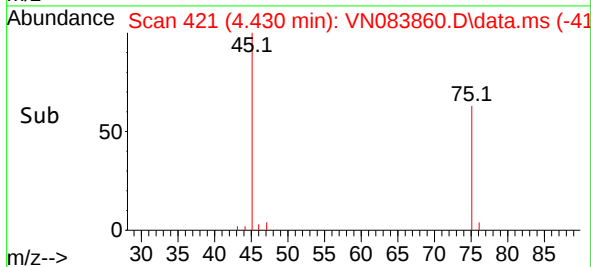
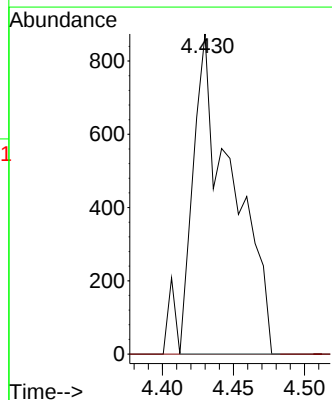
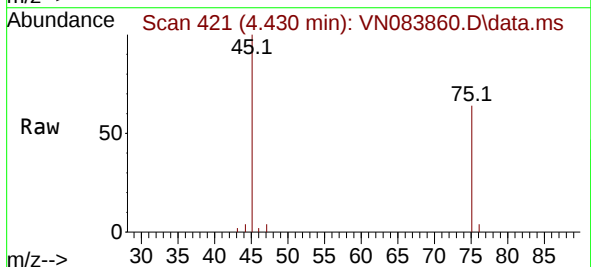
Acq: 13 Sep 2024 07:48

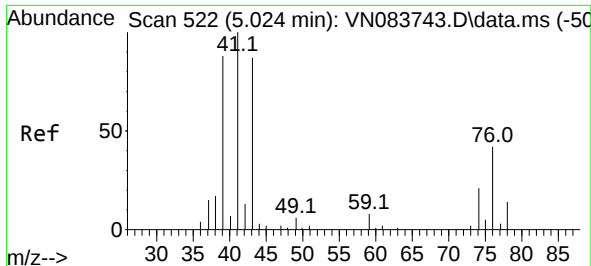
Tgt Ion: 76 Resp: 1669

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#





#18

Methyl Acetate

Concen: Below Cal

RT: 5.024 min Scan# 51

Delta R.T. -0.000 min

Lab File: VN083860.D

Acq: 13 Sep 2024 07:48

Instrument :

MSVOA_N

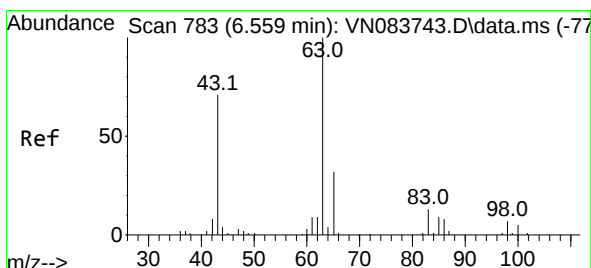
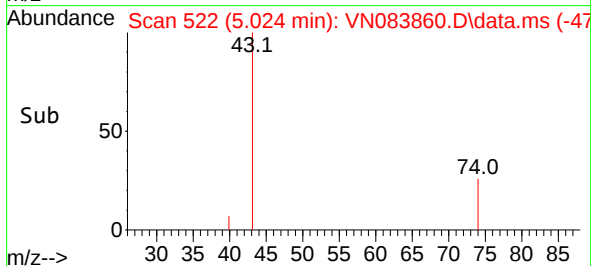
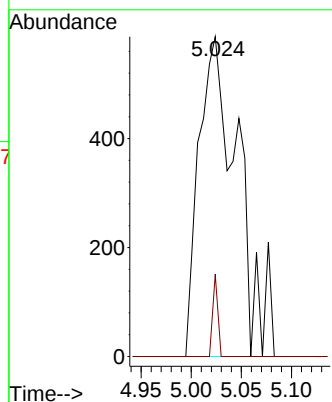
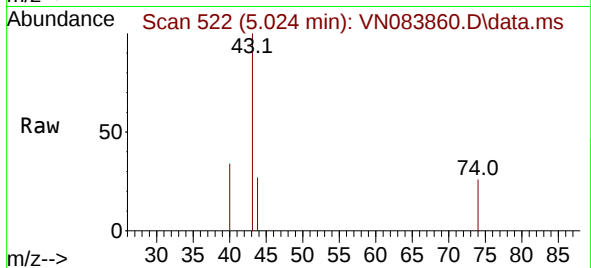
ClientSampleId :

Tgt Ion: 43 Resp: 1591

Ion Ratio Lower Upper

43 100

74 3.3 19.0 28.4#



#24

1,1-Dichloroethane

Concen: 1.978 ug/l

RT: 6.571 min Scan# 785

Delta R.T. 0.012 min

Lab File: VN083860.D

Acq: 13 Sep 2024 07:48

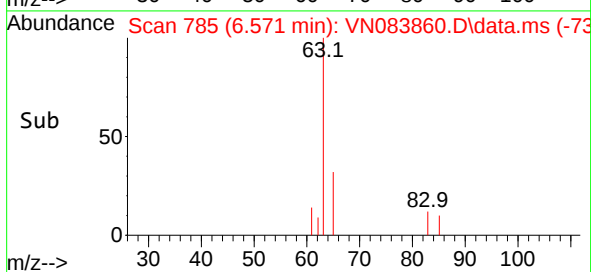
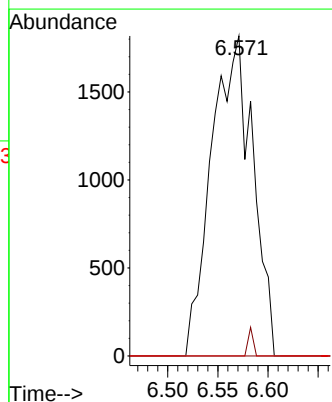
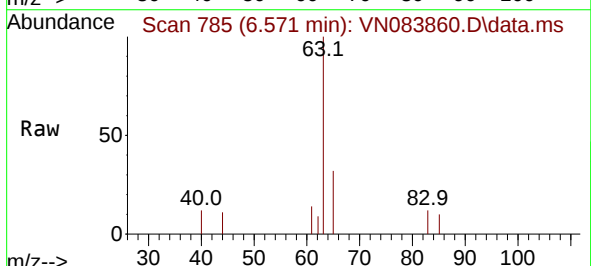
Tgt Ion: 63 Resp: 5197

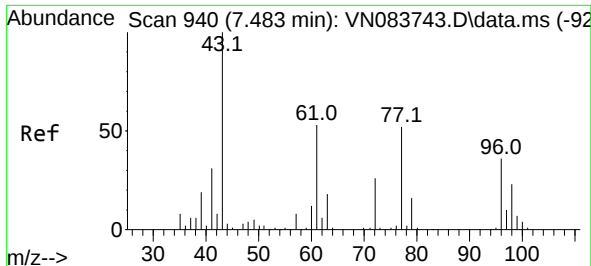
Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.4#

100 0.0 2.5 7.5#





#27

cis-1,2-Dichloroethene

Concen: 51.261 ug/l

RT: 7.483 min Scan# 94

Delta R.T. 0.000 min

Lab File: VN083860.D

Acq: 13 Sep 2024 07:48

Instrument :

MSVOA_N

ClientSampleId :

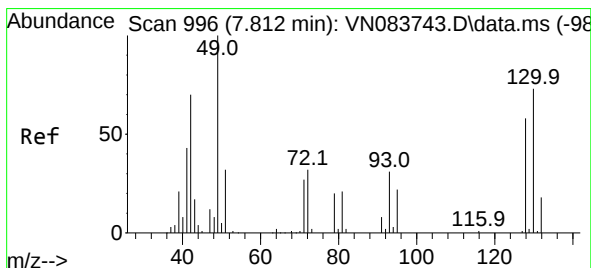
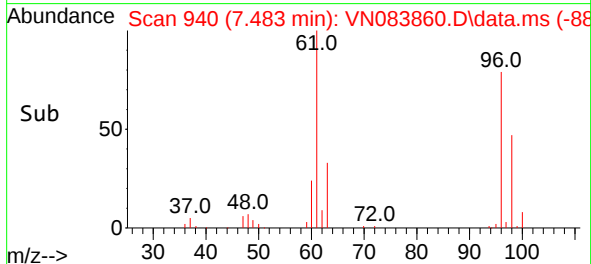
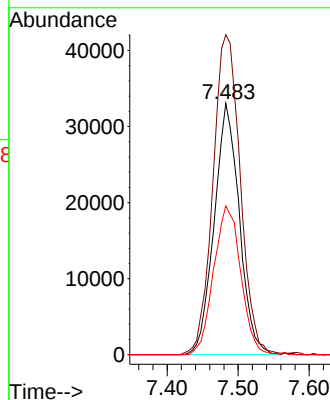
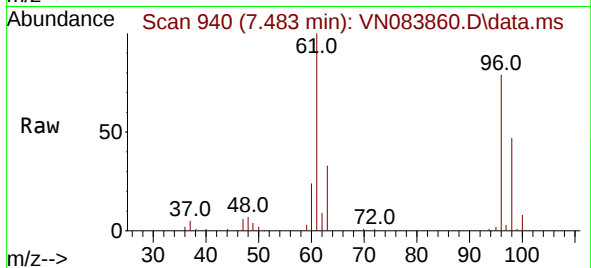
Tgt Ion: 96 Resp: 81086

Ion Ratio Lower Upper

96 100

61 138.7 0.0 306.2

98 63.7 0.0 128.6



#28

Bromochloromethane

Concen: 0.289 ug/l

RT: 7.977 min Scan# 1024

Delta R.T. 0.165 min

Lab File: VN083860.D

Acq: 13 Sep 2024 07:48

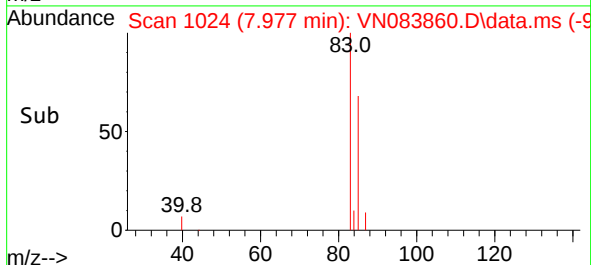
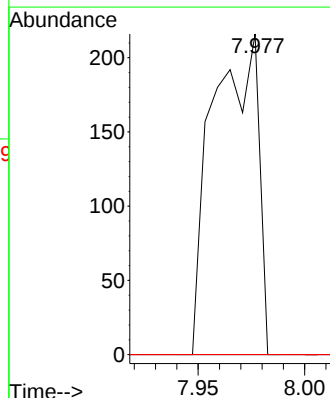
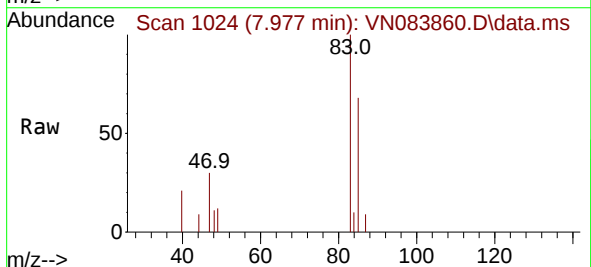
Tgt Ion: 49 Resp: 320

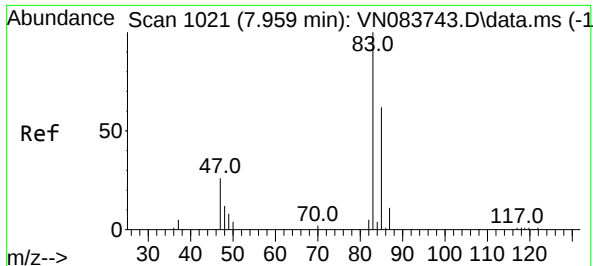
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.4

130 0.0 60.2 90.2#





#30

Chloroform

Concen: 2.043 ug/l

RT: 7.959 min Scan# 1065

Delta R.T. 0.000 min

Lab File: VN083860.D

Acq: 13 Sep 2024 07:48

Instrument :

MSVOA_N

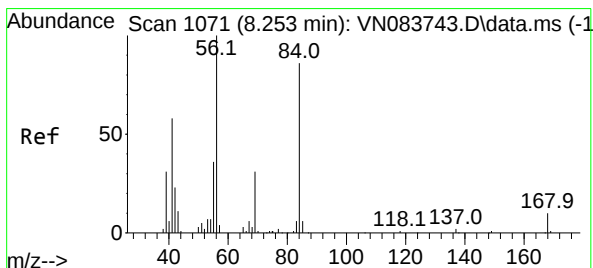
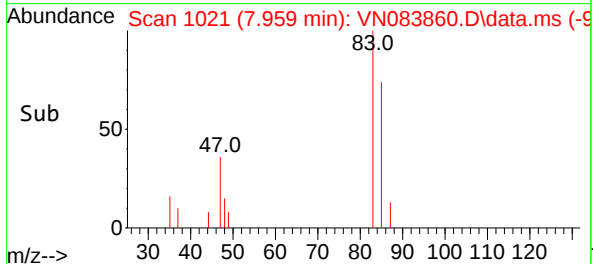
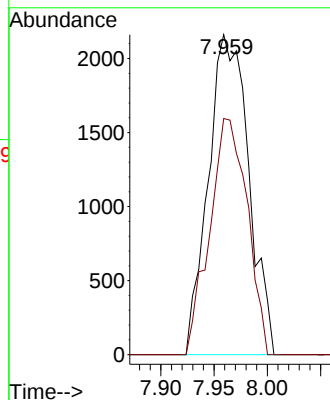
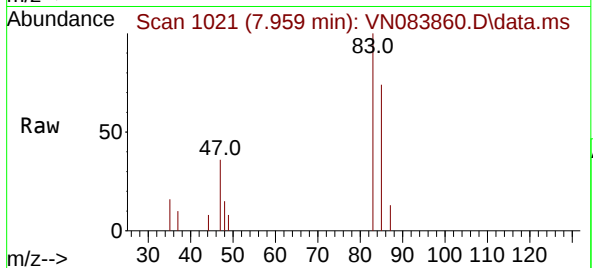
ClientSampleId :

Tgt Ion: 83 Resp: 5699

Ion Ratio Lower Upper

83 100

85 73.8 52.8 79.2



#31

Cyclohexane

Concen: 1.158 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN083860.D

Acq: 13 Sep 2024 07:48

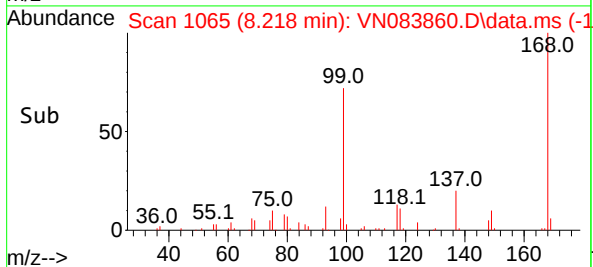
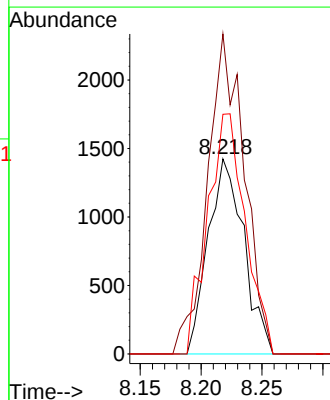
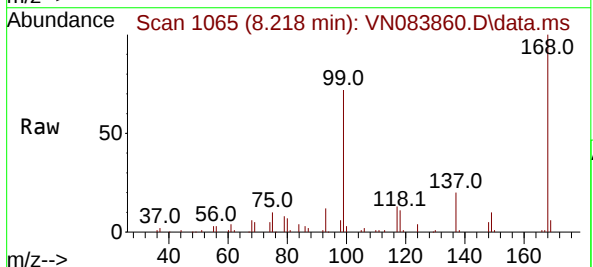
Tgt Ion: 56 Resp: 2902

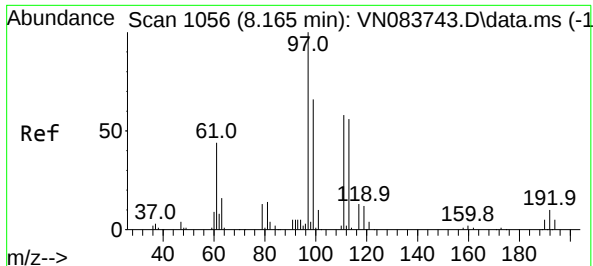
Ion Ratio Lower Upper

56 100

69 164.0 26.9 40.3#

84 122.9 69.2 103.8#





#32

1,1,1-Trichloroethane

Concen: 0.287 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.012 min

Lab File: VN083860.D

Acq: 13 Sep 2024 07:48

Instrument :

MSVOA_N

ClientSampleId :

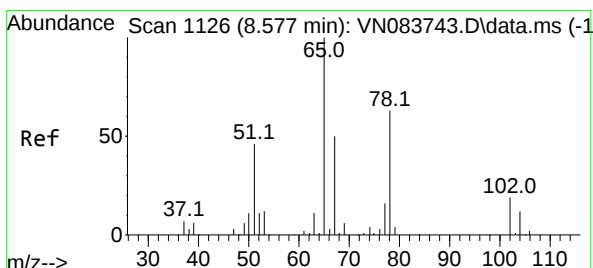
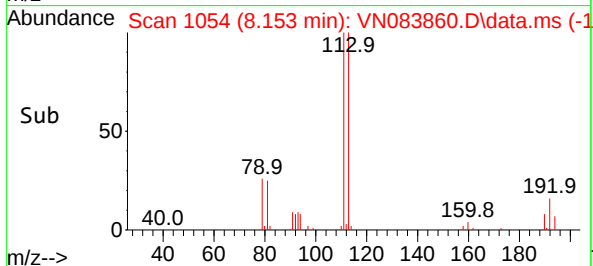
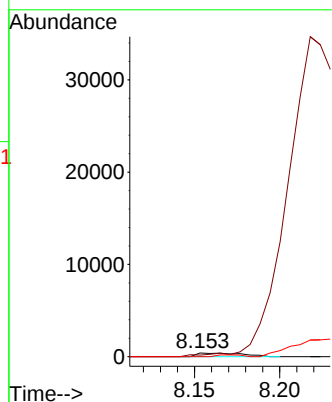
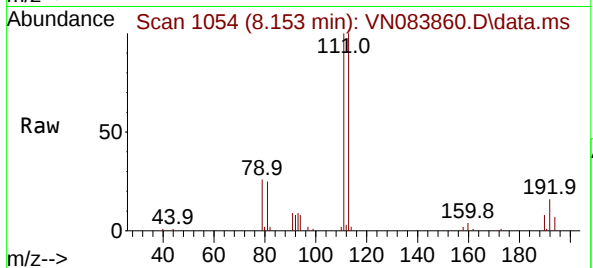
Tgt Ion: 97 Resp: 737

Ion Ratio Lower Upper

97 100

99 0.0 52.3 78.5#

61 26.5 38.2 57.2#



#33

1,2-Dichloroethane-d4

Concen: 54.754 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN083860.D

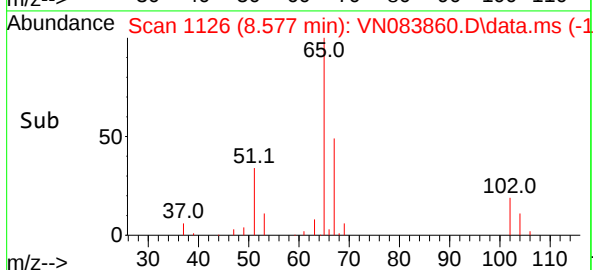
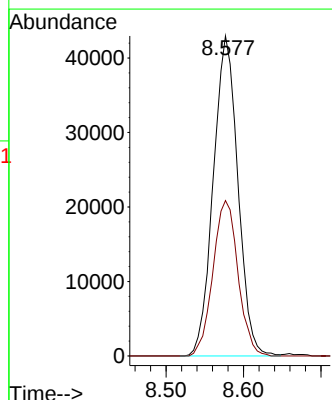
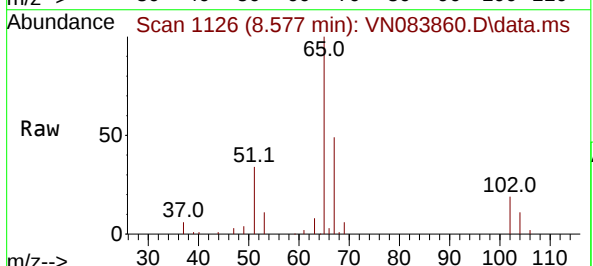
Acq: 13 Sep 2024 07:48

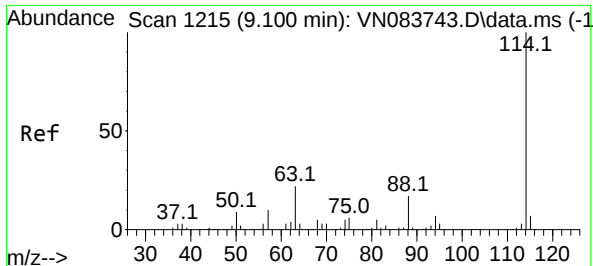
Tgt Ion: 65 Resp: 94909

Ion Ratio Lower Upper

65 100

67 49.4 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN083860.D

Acq: 13 Sep 2024 07:48

Instrument :

MSVOA_N

ClientSampleId :

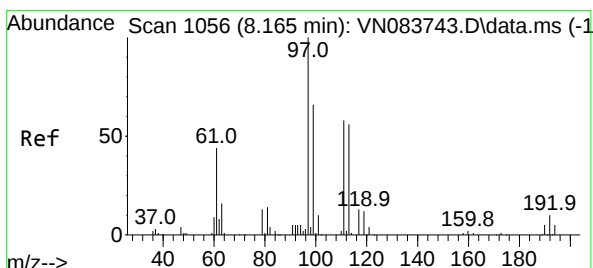
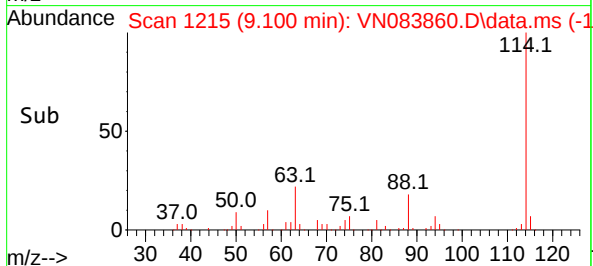
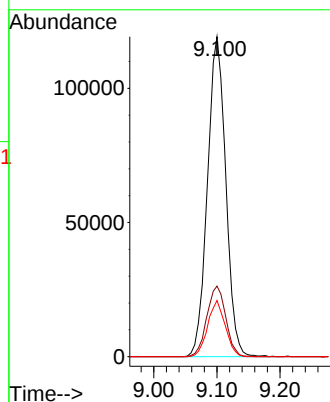
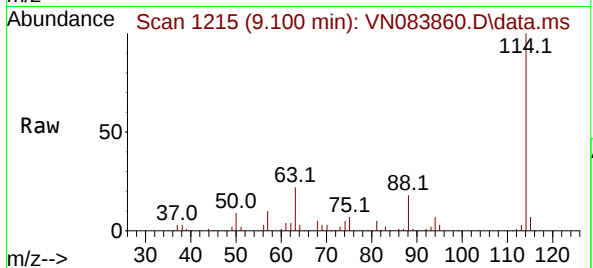
Tgt Ion:114 Resp: 240578

Ion Ratio Lower Upper

114 100

63 22.1 0.0 43.4

88 17.5 0.0 32.6



#35

Dibromofluoromethane

Concen: 48.669 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083860.D

Acq: 13 Sep 2024 07:48

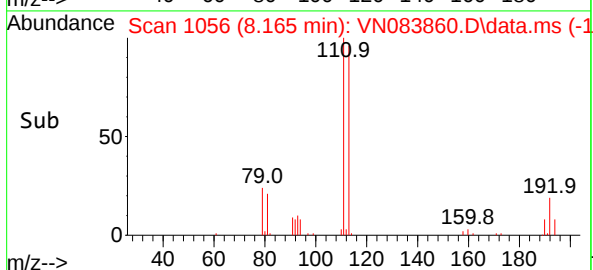
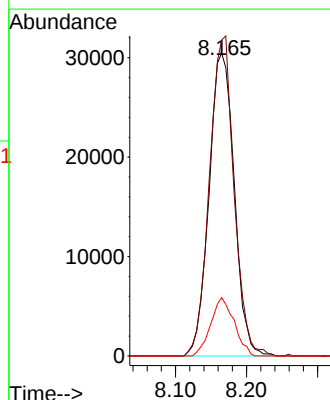
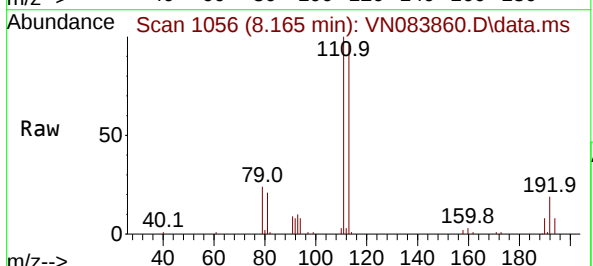
Tgt Ion:113 Resp: 74957

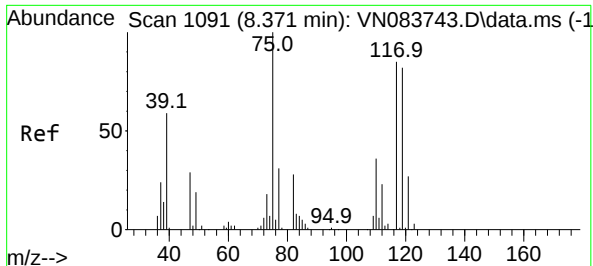
Ion Ratio Lower Upper

113 100

111 103.0 82.6 124.0

192 17.9 14.3 21.5





#36

1,1-Dichloropropene

Concen: 4.731 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

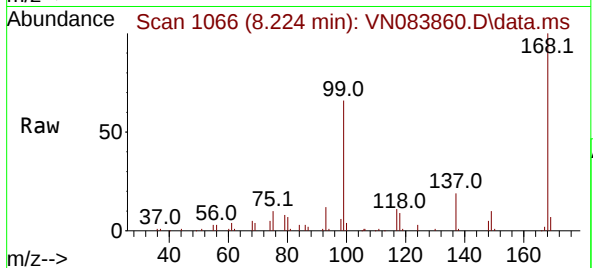
Lab File: VN083860.D

Acq: 13 Sep 2024 07:48

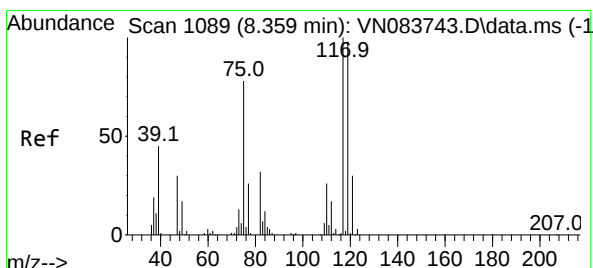
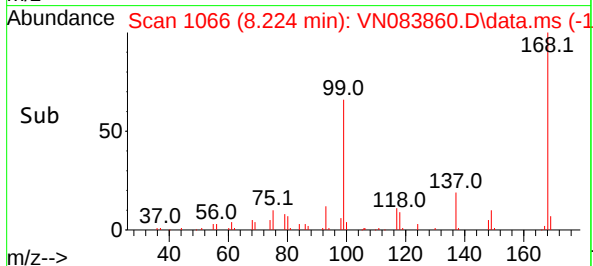
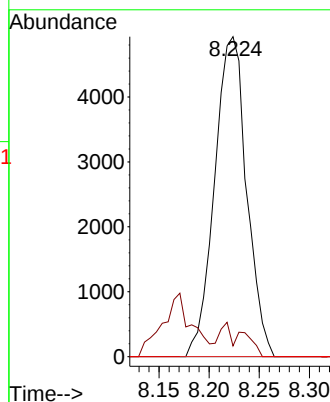
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 75	Resp: 10968
Ion Ratio	Lower Upper
75	100
110	2.4 16.7 50.1#
77	0.0 25.2 37.8#



#38

Carbon Tetrachloride

Concen: 5.179 ug/l

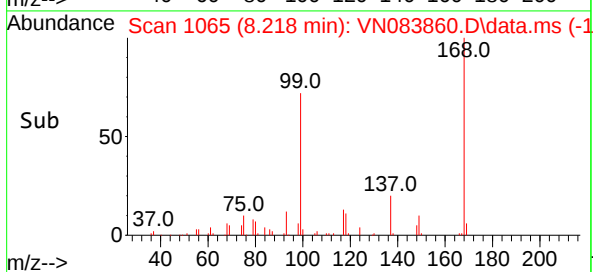
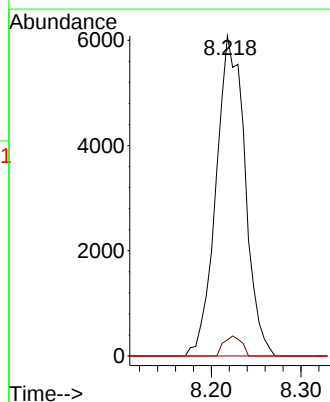
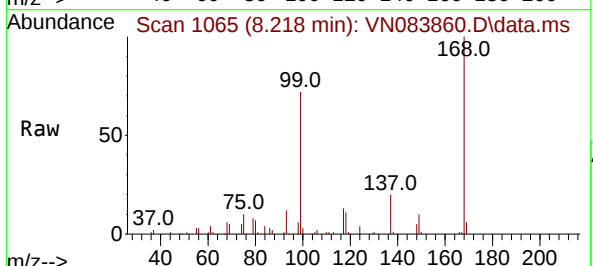
RT: 8.218 min Scan# 1065

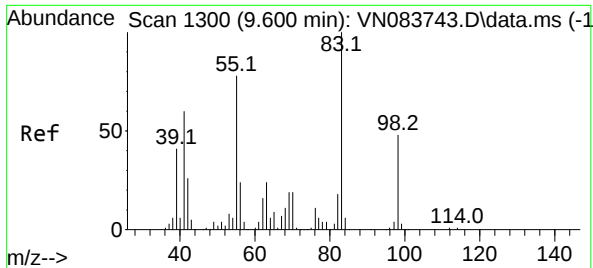
Delta R.T. -0.141 min

Lab File: VN083860.D

Acq: 13 Sep 2024 07:48

Tgt Ion: 117	Resp: 13621
Ion Ratio	Lower Upper
117	100
119	5.0 76.1 114.1#
121	0.0 24.1 36.1#





#39

Methylcyclohexane

Concen: 3.238 ug/l

RT: 9.347 min Scan# 1127

Delta R.T. -0.253 min

Lab File: VN083860.D

Acq: 13 Sep 2024 07:48

Instrument :

MSVOA_N

ClientSampleId :

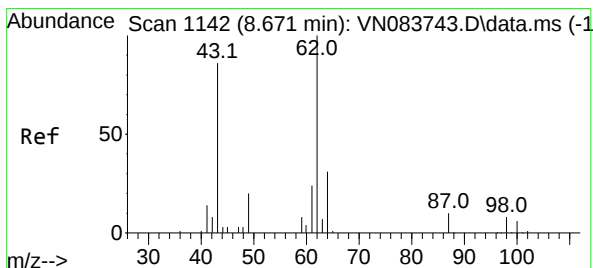
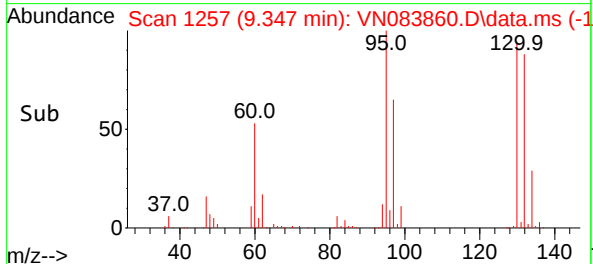
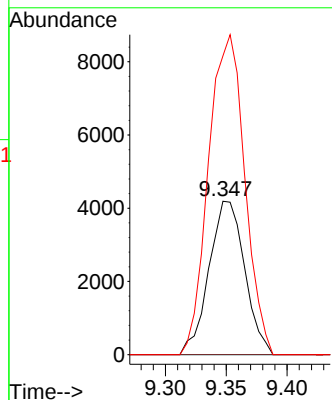
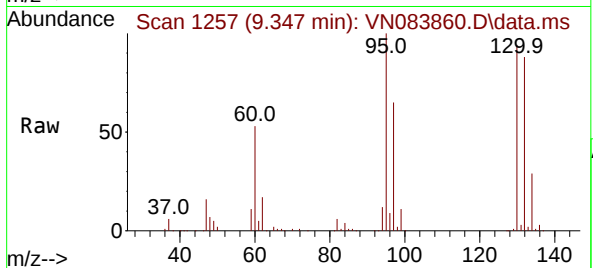
Tgt Ion: 83 Resp: 8543

Ion Ratio Lower Upper

83 100

55 0.0 62.2 93.4#

98 194.7 37.6 56.4#



#42

1,2-Dichloroethane

Concen: 1.882 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VN083860.D

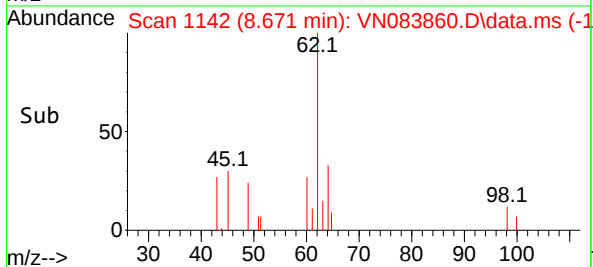
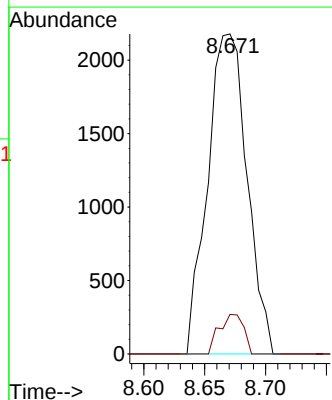
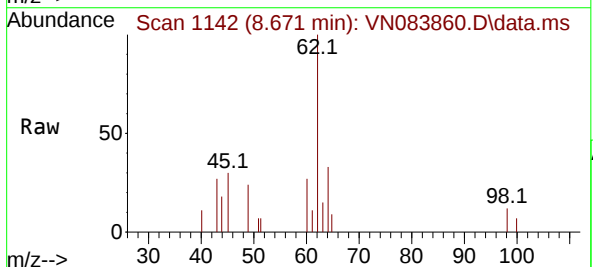
Acq: 13 Sep 2024 07:48

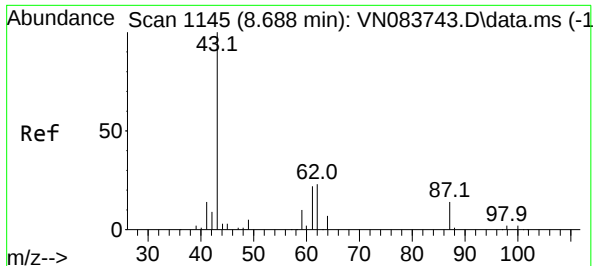
Tgt Ion: 62 Resp: 4907

Ion Ratio Lower Upper

62 100

98 7.6 0.0 16.6





#43

Isopropyl Acetate

Concen: 0.363 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.024 min

Lab File: VN083860.D

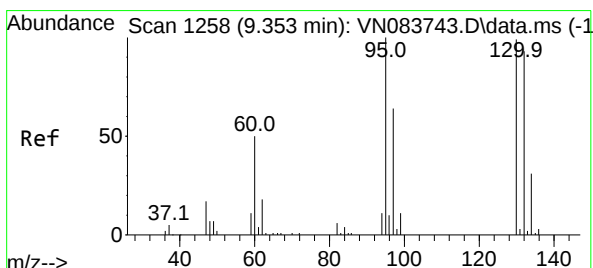
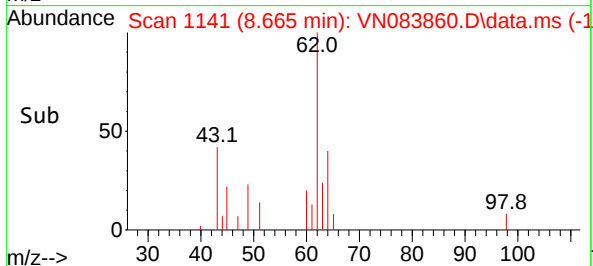
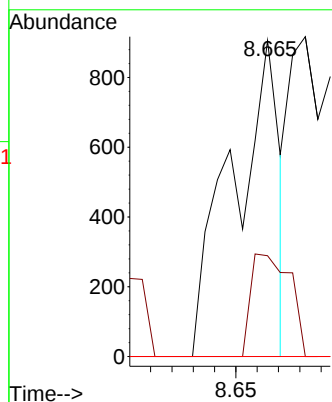
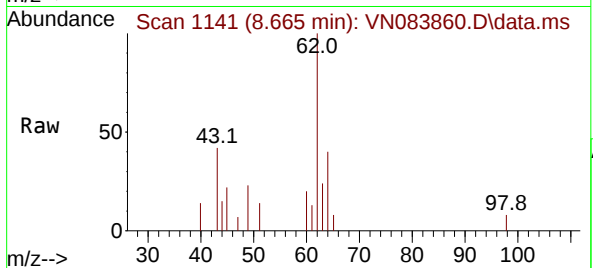
Acq: 13 Sep 2024 07:48

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 43	Resp: 1385
Ion Ratio	Lower Upper
43	100
61	27.1 19.4 29.0
87	0.0 9.8 14.6#



#44

Trichloroethene

Concen: 401.529 ug/l

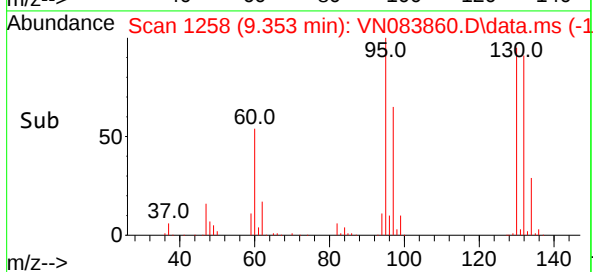
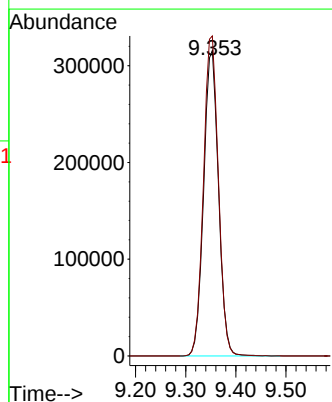
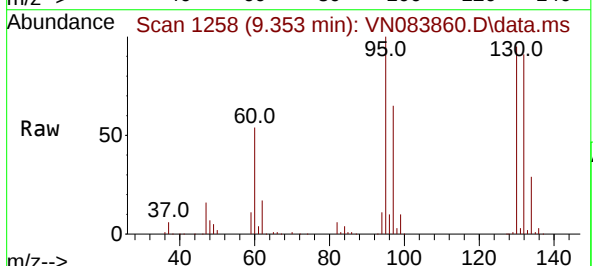
RT: 9.353 min Scan# 1258

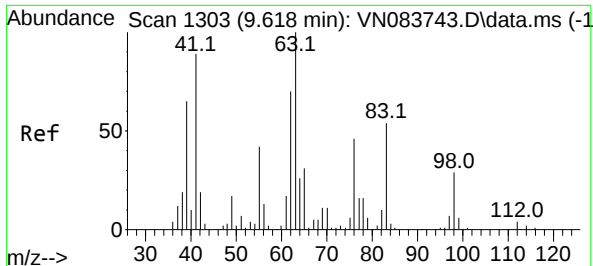
Delta R.T. 0.000 min

Lab File: VN083860.D

Acq: 13 Sep 2024 07:48

Tgt Ion: 130	Resp: 648776
Ion Ratio	Lower Upper
130	100
95	104.8 0.0 200.4





#45

1,2-Dichloropropane

Concen: 0.464 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN083860.D

Acq: 13 Sep 2024 07:48

Instrument :

MSVOA_N

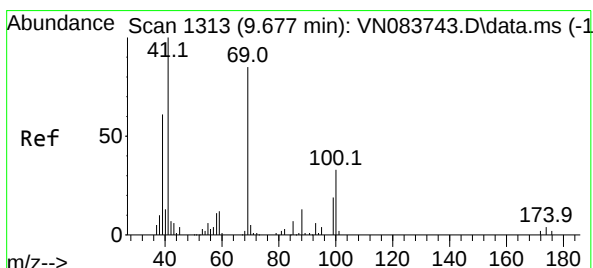
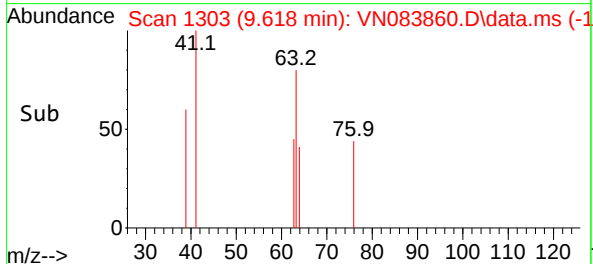
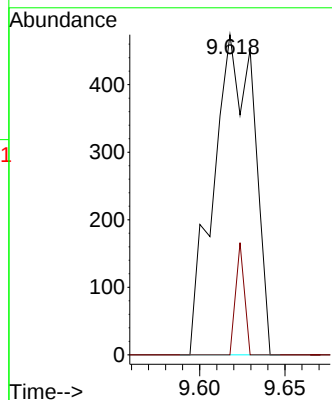
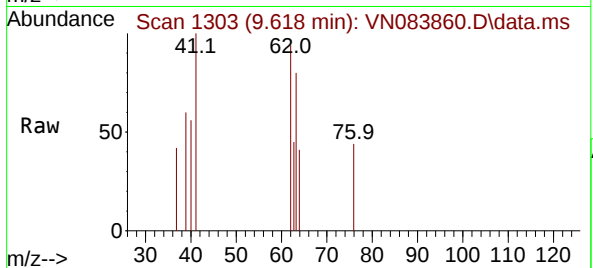
ClientSampleId :

Tgt Ion: 63 Resp: 783

Ion Ratio Lower Upper

63 100

65 0.0 25.9 38.9#



#48

Methyl methacrylate

Concen: 0.306 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.059 min

Lab File: VN083860.D

Acq: 13 Sep 2024 07:48

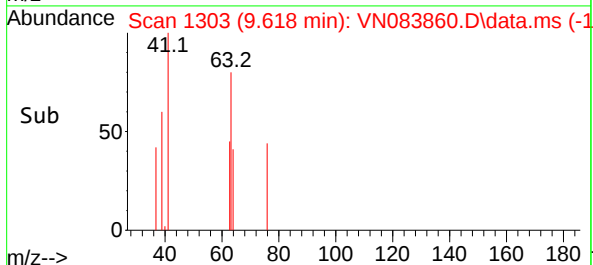
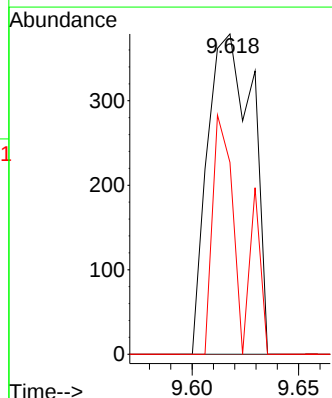
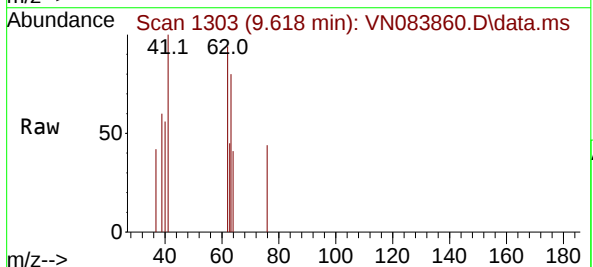
Tgt Ion: 41 Resp: 554

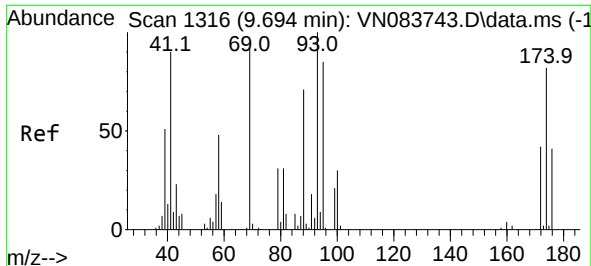
Ion Ratio Lower Upper

41 100

69 0.0 64.3 96.5#

39 45.1 48.9 73.3#





#49

1,4-Dioxane

Concen: 4.973 ug/l

RT: 9.688 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN083860.D

Acq: 13 Sep 2024 07:48

Instrument :

MSVOA_N

ClientSampleId :

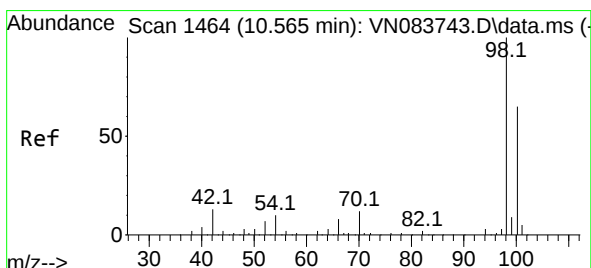
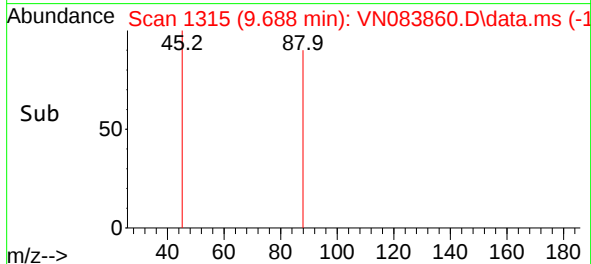
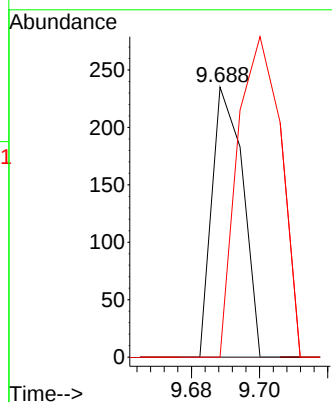
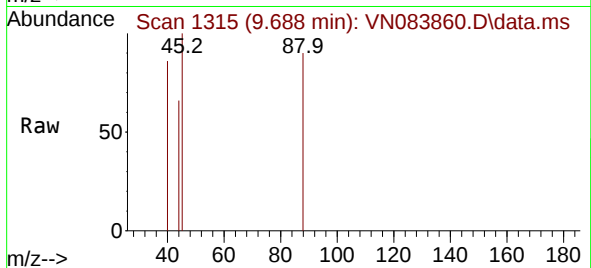
Tgt Ion: 88 Resp: 148

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 166.2 57.1 85.7#



#50

Toluene-d8

Concen: 51.756 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN083860.D

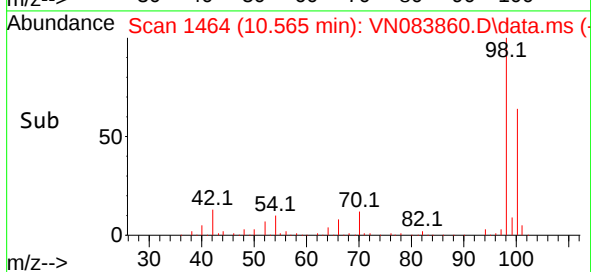
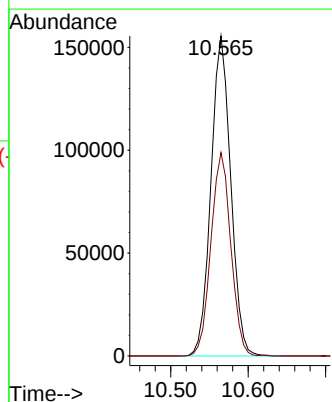
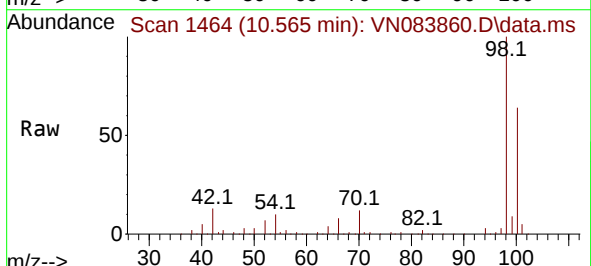
Acq: 13 Sep 2024 07:48

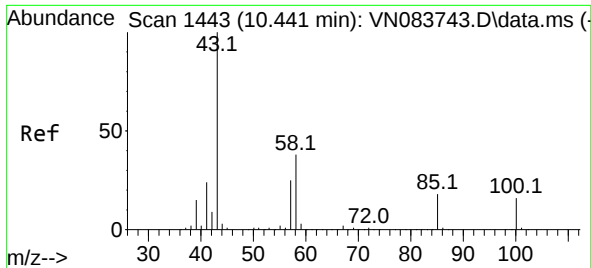
Tgt Ion: 98 Resp: 275567

Ion Ratio Lower Upper

98 100

100 63.9 52.0 78.0

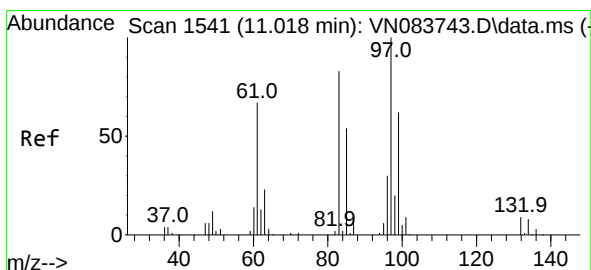
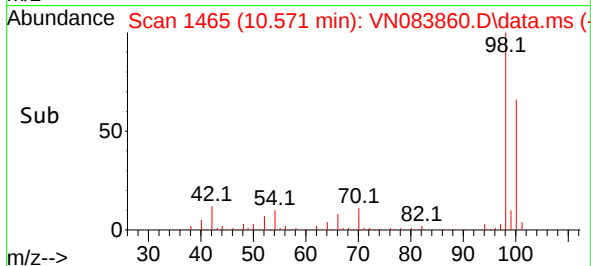
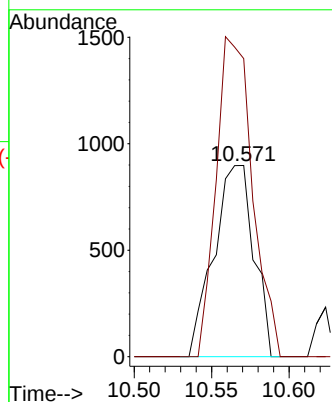
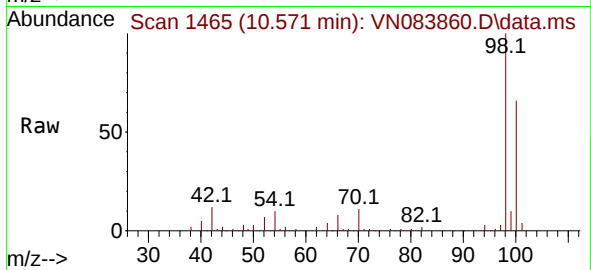




#51
4-Methyl-2-Pentanone
Concen: 0.778 ug/l
RT: 10.571 min Scan# 1443
Delta R.T. 0.129 min
Lab File: VN083860.D
Acq: 13 Sep 2024 07:48

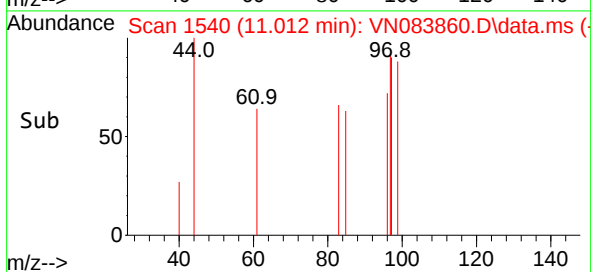
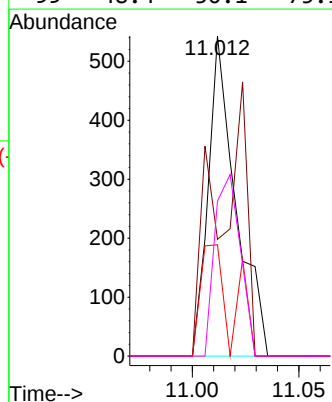
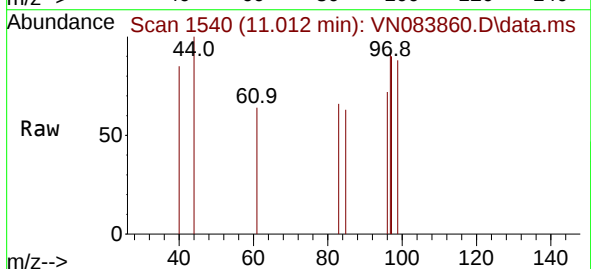
Instrument :
MSVOA_N
ClientSampleId :

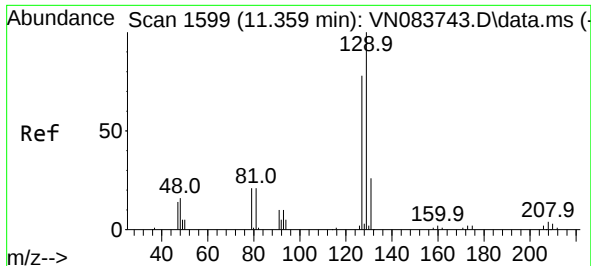
Tgt Ion: 43 Resp: 1615
Ion Ratio Lower Upper
43 100
58 151.5 31.6 47.4#



#55
1,1,2-Trichloroethane
Concen: 0.307 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.006 min
Lab File: VN083860.D
Acq: 13 Sep 2024 07:48

Tgt Ion: 97 Resp: 489
Ion Ratio Lower Upper
97 100
83 36.5 67.5 101.3#
85 34.8 44.2 66.2#
99 48.4 50.1 75.1#

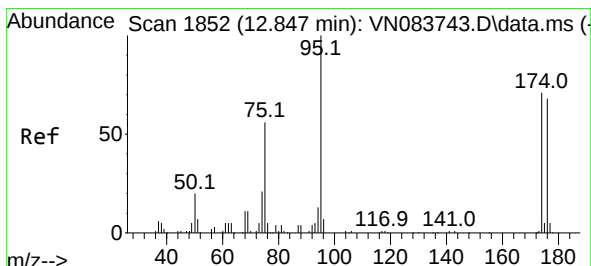
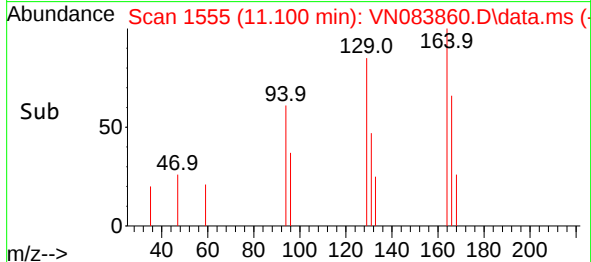
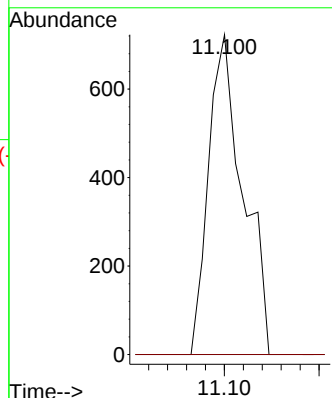
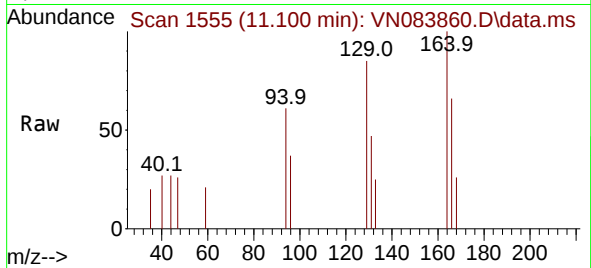




#60
Dibromochloromethane
Concen: 0.513 ug/l
RT: 11.100 min Scan# 11
Delta R.T. -0.259 min
Lab File: VN083860.D
Acq: 13 Sep 2024 07:48

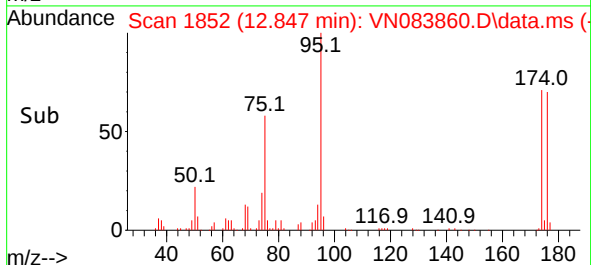
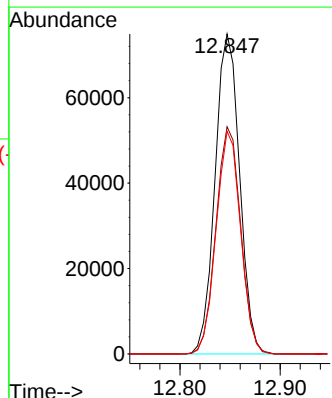
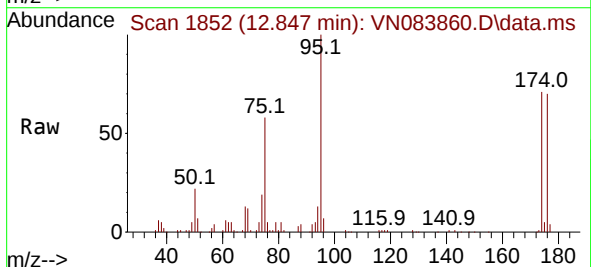
Instrument :
MSVOA_N
ClientSampleId :

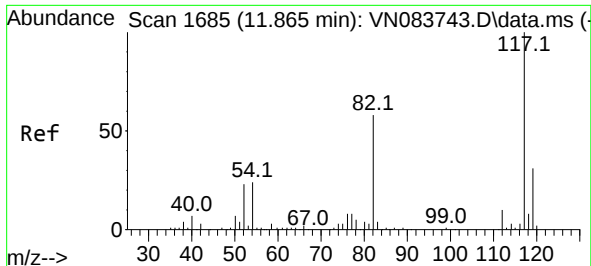
Tgt Ion:129 Resp: 915
Ion Ratio Lower Upper
129 100
127 0.0 39.0 116.9#



#62
4-Bromofluorobenzene
Concen: 57.939 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083860.D
Acq: 13 Sep 2024 07:48

Tgt Ion: 95 Resp: 127275
Ion Ratio Lower Upper
95 100
174 71.6 0.0 139.8
176 69.5 0.0 131.4

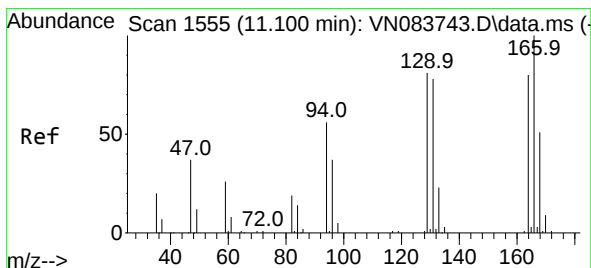
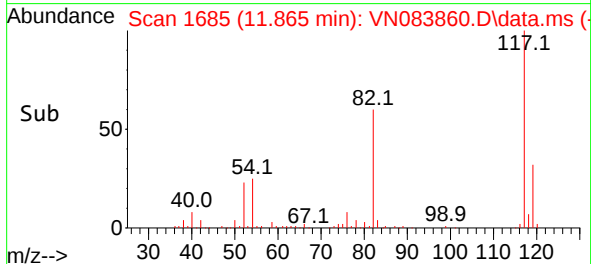
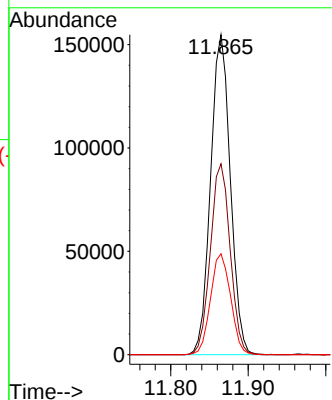
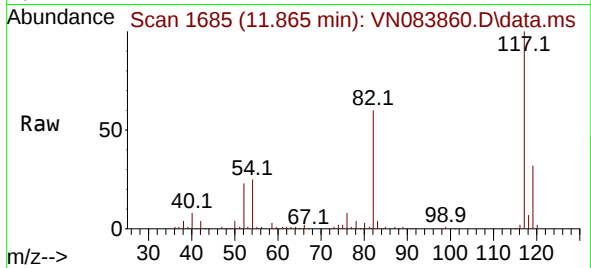




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN083860.D
Acq: 13 Sep 2024 07:48

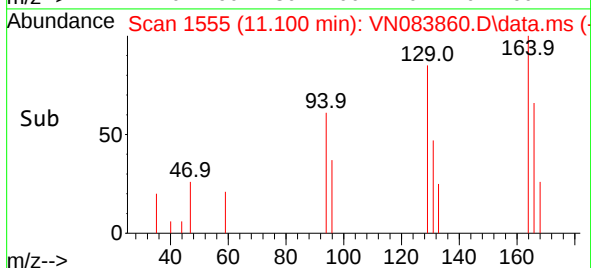
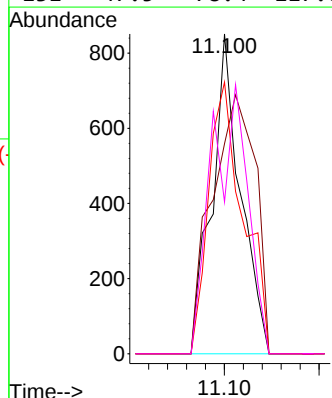
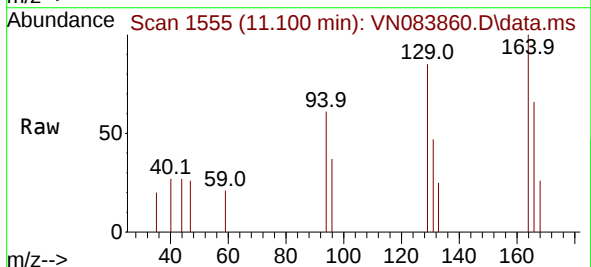
Instrument :
MSVOA_N
ClientSampleId :

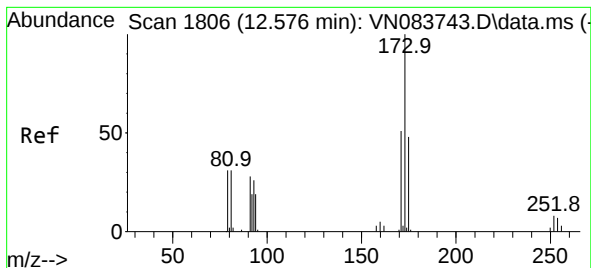
Tgt Ion:117 Resp: 273770
Ion Ratio Lower Upper
117 100
82 59.7 47.4 71.0
119 31.6 26.3 39.5



#64
Tetrachloroethene
Concen: 0.491 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN083860.D
Acq: 13 Sep 2024 07:48

Tgt Ion:164 Resp: 894
Ion Ratio Lower Upper
164 100
166 65.7 103.7 155.5#
129 85.0 79.9 119.9
131 47.5 78.4 117.6#





#71

Bromoform

Concen: 0.359 ug/l

RT: 12.847 min Scan# 1806

Delta R.T. 0.271 min

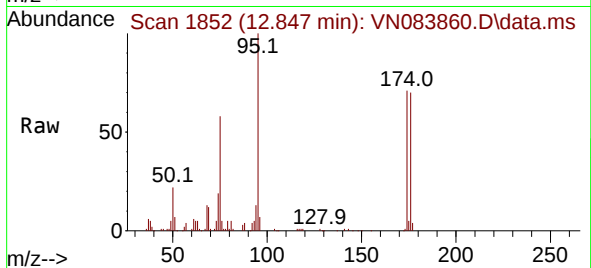
Lab File: VN083860.D

Acq: 13 Sep 2024 07:48

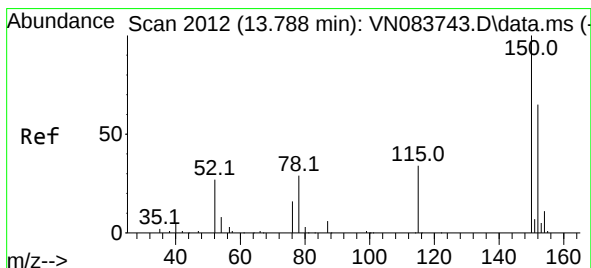
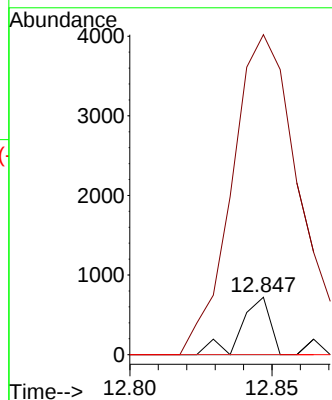
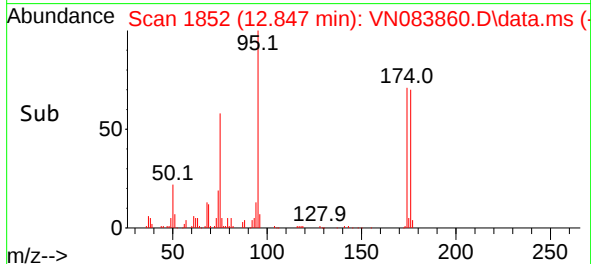
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	511
Ion Ratio	Lower	Upper	
173	100		
175	990.0	24.1	72.2#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

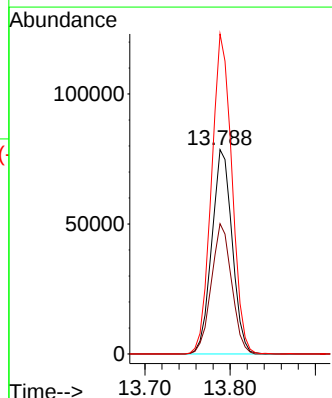
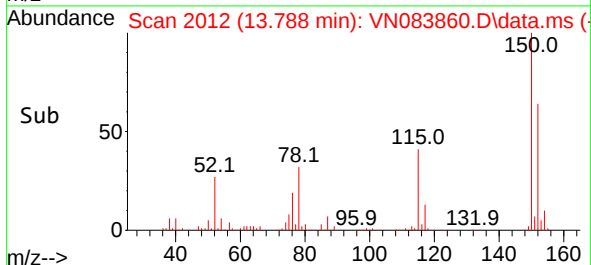
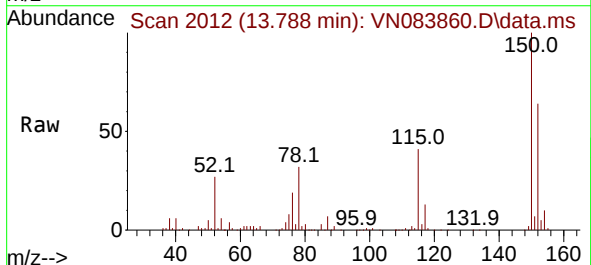
RT: 13.788 min Scan# 2012

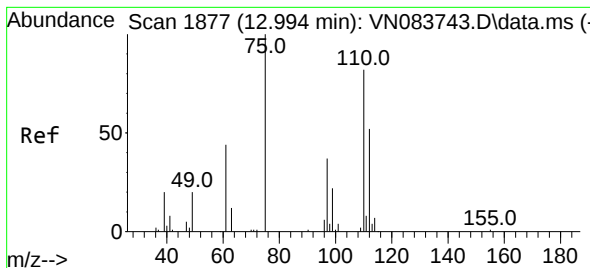
Delta R.T. 0.000 min

Lab File: VN083860.D

Acq: 13 Sep 2024 07:48

Tgt Ion:	152	Resp:	130542
Ion Ratio	Lower	Upper	
152	100		
115	63.5	32.2	96.6
150	156.7	0.0	348.6





#76

1,2,3-Trichloropropane

Concen: 27.548 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN083860.D

Acq: 13 Sep 2024 07:48

Instrument :

MSVOA_N

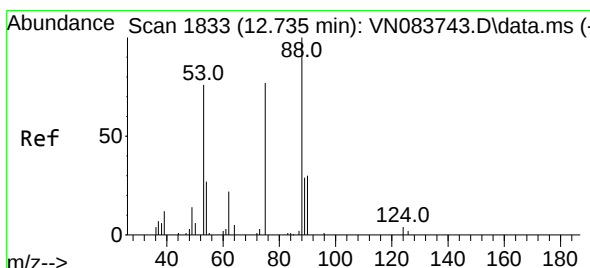
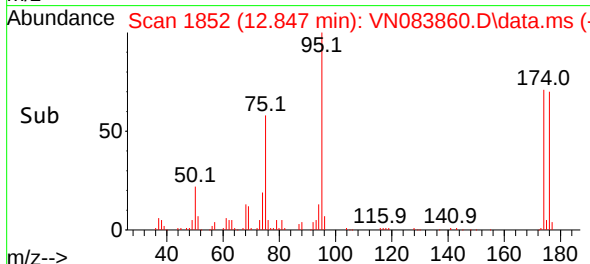
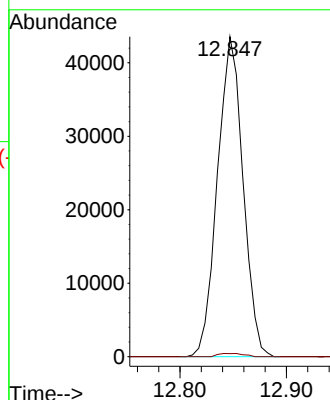
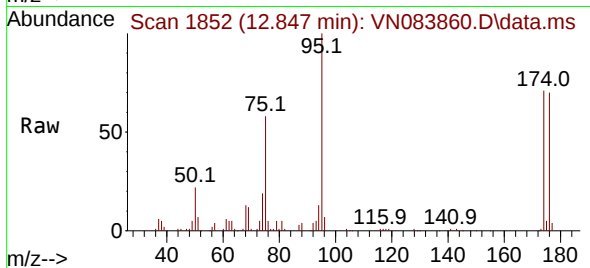
ClientSampleId :

Tgt Ion: 75 Resp: 72564

Ion Ratio Lower Upper

75 100

77 1.0 95.2 285.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.151 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN083860.D

Acq: 13 Sep 2024 07:48

Tgt Ion: 75 Resp: 72564

Ion Ratio Lower Upper

75 100

53 0.0 81.2 121.8#

89 0.0 35.7 53.5#

