

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100224\
 Data File : VN084270.D
 Acq On : 02 Oct 2024 17:21
 Operator : JC\MD
 Sample : P4226-13
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT101D2-20240925

Quant Time: Oct 03 02:02:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 2024
 Response via : Initial Calibration

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

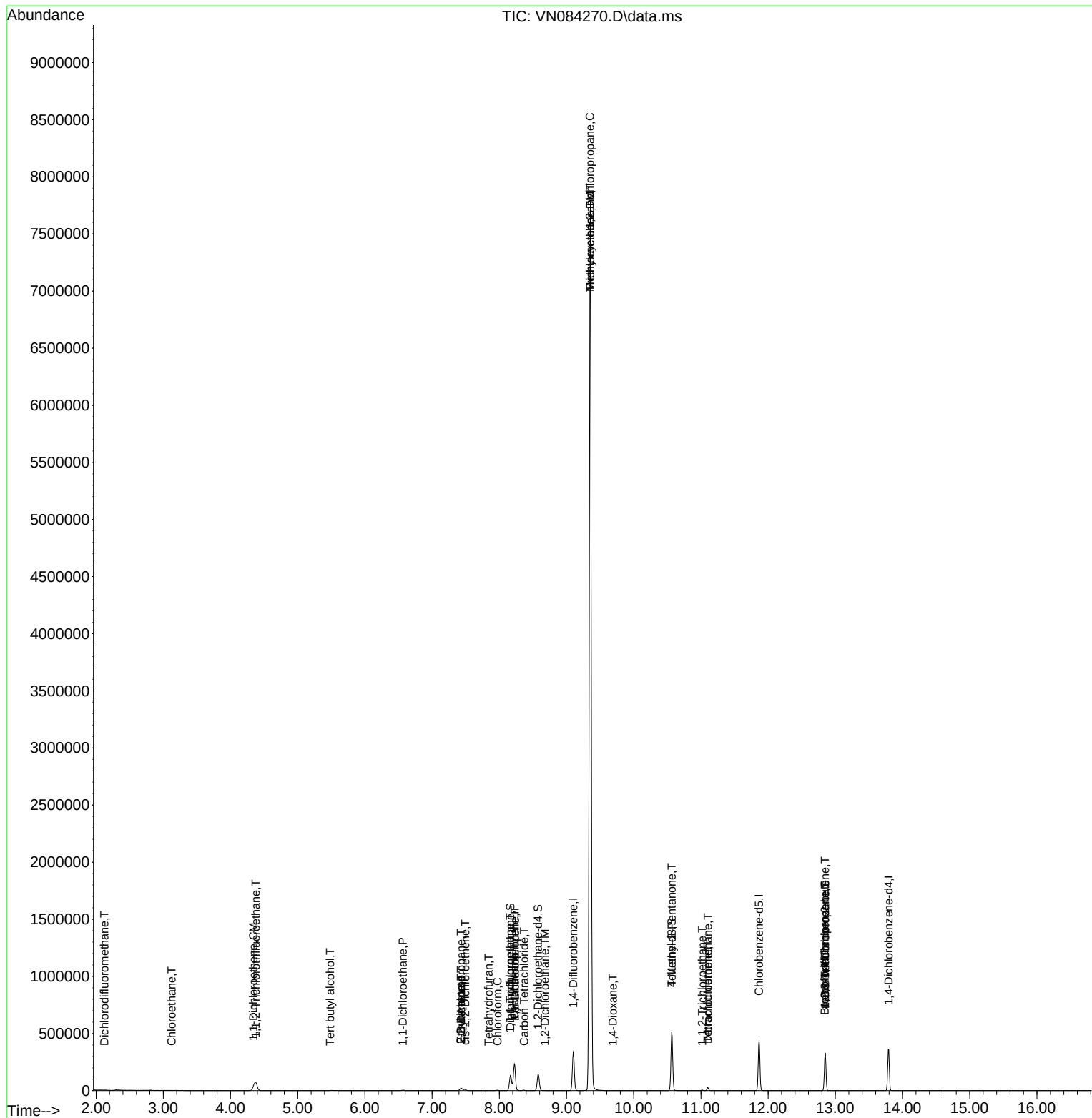
Internal Standards						
1) Pentafluorobenzene	8.230	168	162223	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	280035	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	244697	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	98851	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	118728	49.362	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.720%
35) Dibromofluoromethane	8.165	113	94215	51.033	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.060%
50) Toluene-d8	10.565	98	350040	51.535	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.080%
62) 4-Bromofluorobenzene	12.847	95	116047	46.898	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	93.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	503	0.262	ug/l	79
6) Chloroethane	3.124	64	305	0.201	ug/l #	45
9) 1,1,2-Trichlorotrifluo...	4.377	101	48322	25.518	ug/l	98
11) Tert butyl alcohol	5.483	59	373	0.940	ug/l #	73
12) 1,1-Dichloroethene	4.342	96	13507	7.395	ug/l	97
24) 1,1-Dichloroethane	6.565	63	6084	1.658	ug/l #	92
25) 2-Butanone	7.430	43	865	0.615	ug/l #	48
26) 2,2-Dichloropropane	7.430	77	1207	0.365	ug/l #	54
27) cis-1,2-Dichloroethene	7.494	96	6327	2.736	ug/l	90
29) Tetrahydrofuran	7.841	42	459	0.529	ug/l #	46
30) Chloroform	7.971	83	3486	0.915	ug/l	86
31) Cyclohexane	8.224	56	3603	1.011	ug/l #	1
32) 1,1,1-Trichloroethane	8.159	97	1088	0.318	ug/l #	52
36) 1,1-Dichloropropene	8.230	75	14505	5.409	ug/l #	50
37) Ethyl Acetate	7.430	43	865	0.314	ug/l #	11
38) Carbon Tetrachloride	8.371	117	3212	1.092	ug/l #	92
39) Methylcyclohexane	9.353	83	34631	11.603	ug/l #	1
42) 1,2-Dichloroethane	8.677	62	786	0.277	ug/l #	75
44) Trichloroethene	9.353	130	2636970	1351.325	ug/l	94
45) 1,2-Dichloropropane	9.347	63	8987	4.547	ug/l #	1
49) 1,4-Dioxane	9.688	88	102	2.583	ug/l #	72
51) 4-Methyl-2-Pentanone	10.565	43	1531	0.585	ug/l #	1
55) 1,1,2-Trichloroethane	11.018	97	1822	0.998	ug/l #	84
60) Dibromochloromethane	11.106	129	5754	2.666	ug/l #	11
64) Tetrachloroethene	11.100	164	5399	3.168	ug/l	90
71) Bromoform	12.841	173	486	0.353	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	61902	30.674	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	61902	73.539	ug/l #	11

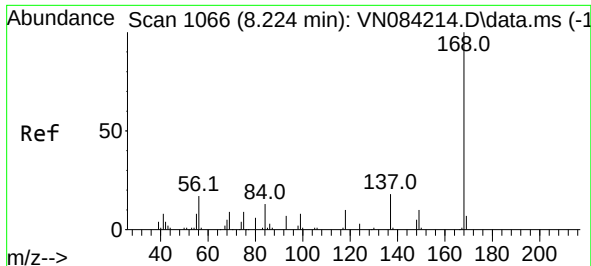
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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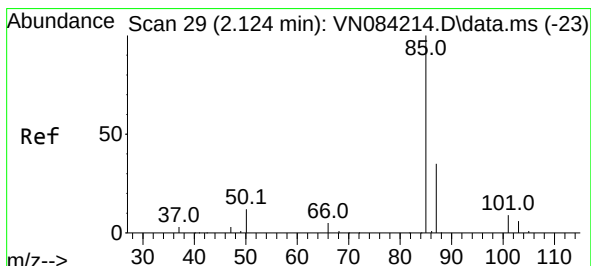
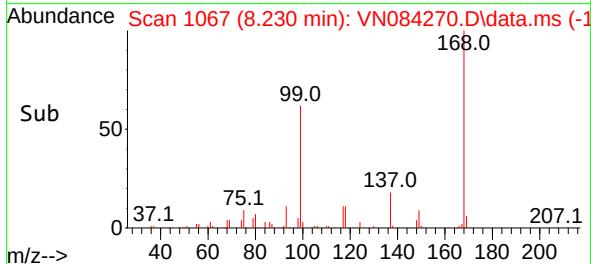
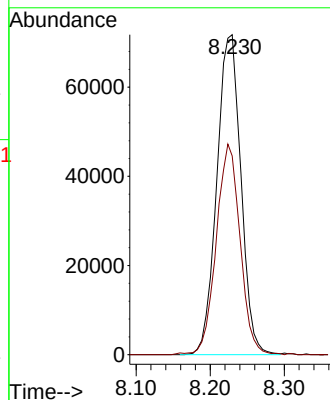
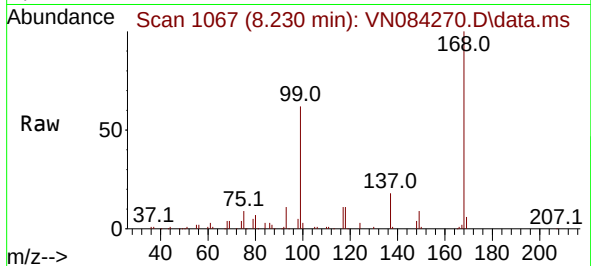




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

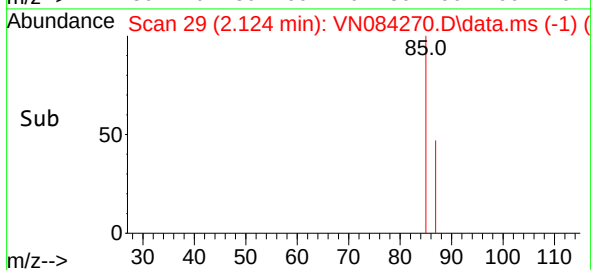
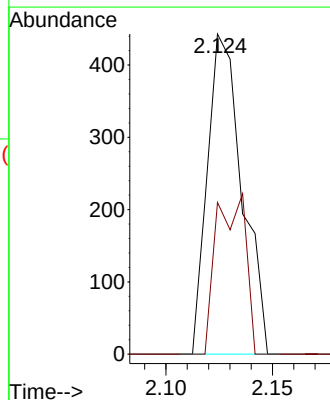
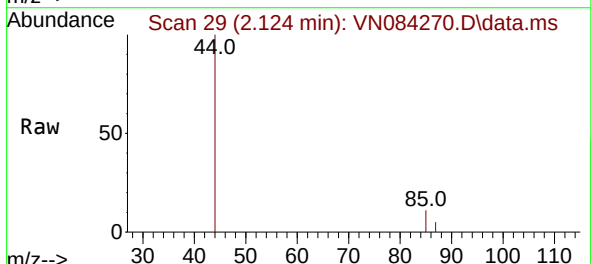
Instrument :
MSVOA_N
ClientSampleId :
TT101D2-20240925

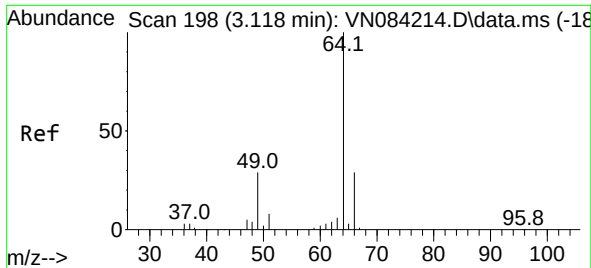
Tgt Ion:168 Resp: 162223
Ion Ratio Lower Upper
168 100
99 61.8 54.2 81.2



#2
Dichlorodifluoromethane
Concen: 0.262 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

Tgt Ion: 85 Resp: 503
Ion Ratio Lower Upper
85 100
87 47.4 17.6 52.9

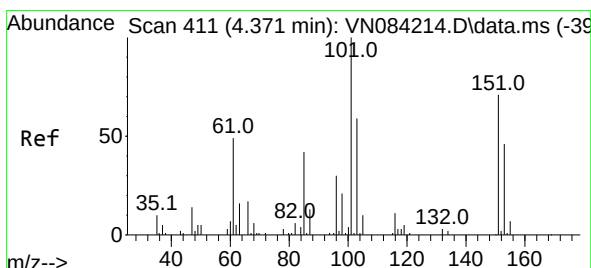
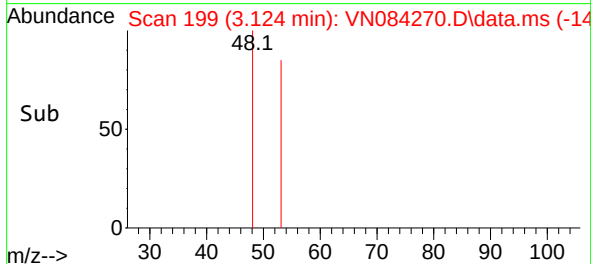
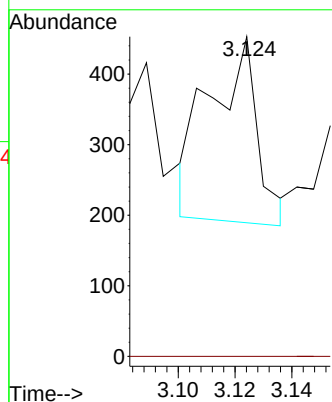
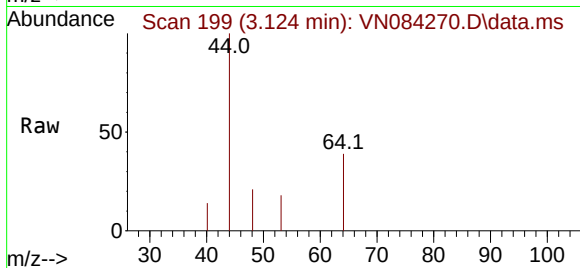




#6
Chloroethane
Concen: 0.201 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

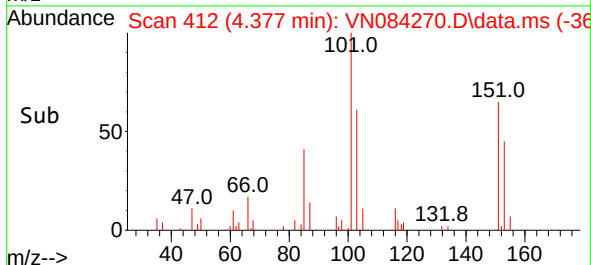
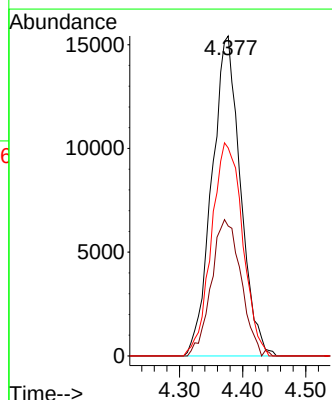
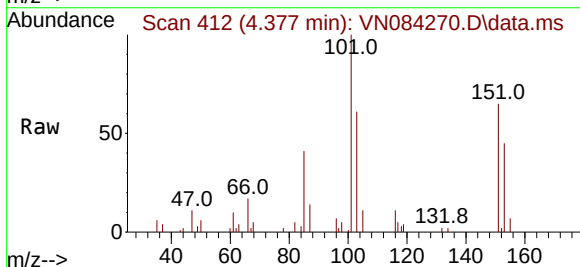
Instrument :
MSVOA_N
ClientSampleId :
TT101D2-20240925

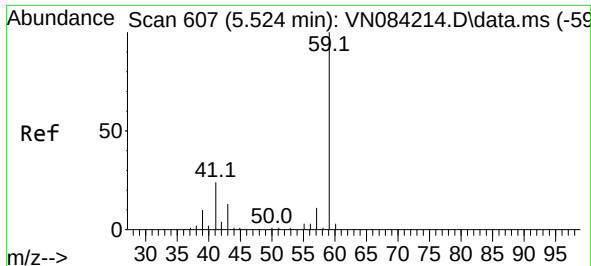
Tgt Ion: 64 Resp: 305
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 25.518 ug/l
RT: 4.377 min Scan# 412
Delta R.T. 0.006 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

Tgt Ion:101 Resp: 48322
Ion Ratio Lower Upper
101 100
85 44.4 36.2 54.4
151 72.7 59.3 88.9

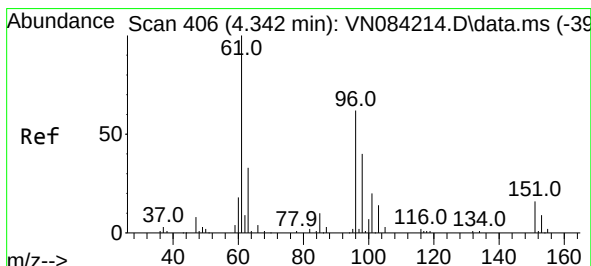
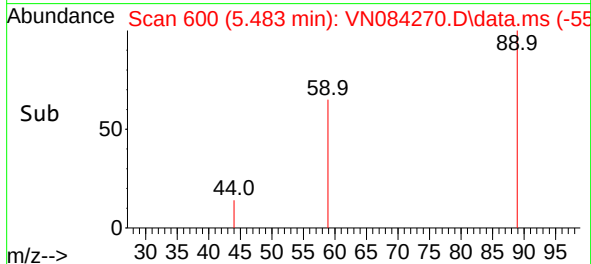
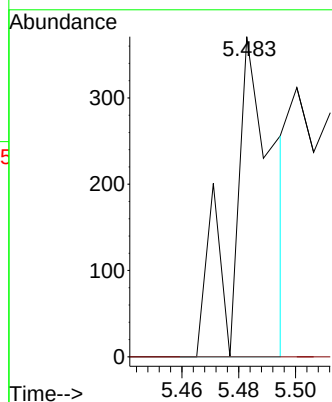
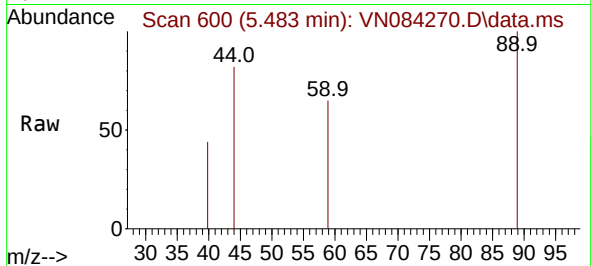




#11
Tert butyl alcohol
Concen: 0.940 ug/l
RT: 5.483 min Scan# 607
Delta R.T. -0.041 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

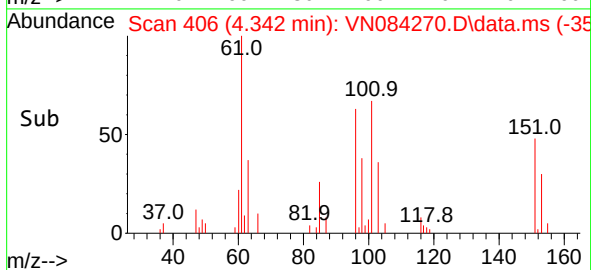
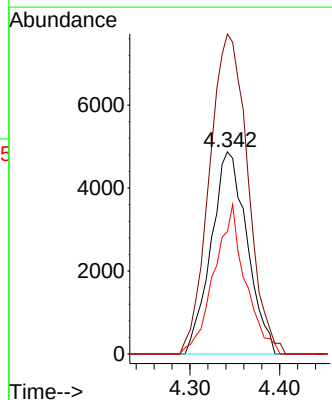
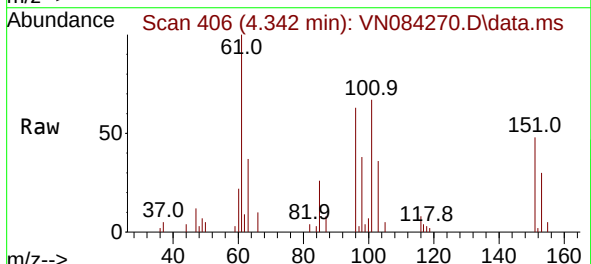
Instrument :
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ClientSampleId :
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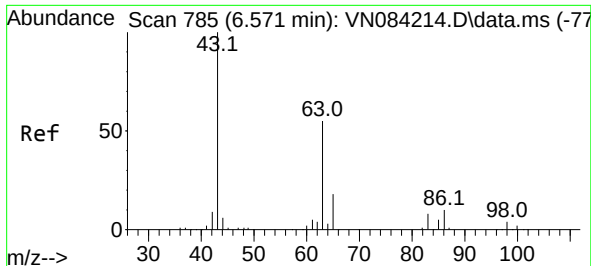
Tgt Ion: 59 Resp: 373
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#12
1,1-Dichloroethene
Concen: 7.395 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

Tgt Ion: 96 Resp: 13507
Ion Ratio Lower Upper
96 100
61 158.3 128.6 192.8
98 60.5 51.7 77.5

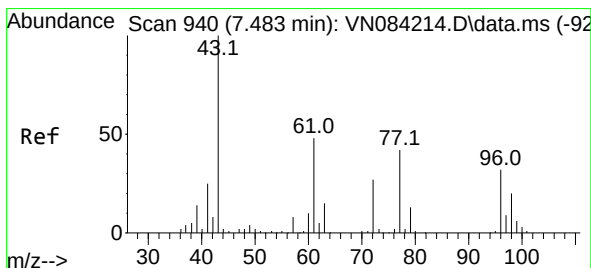
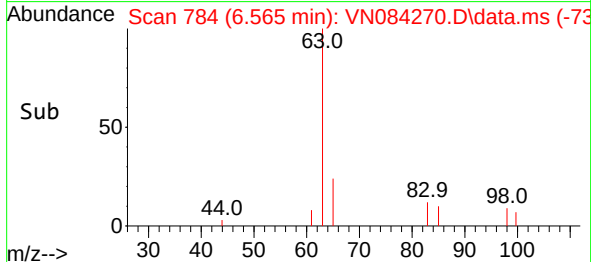
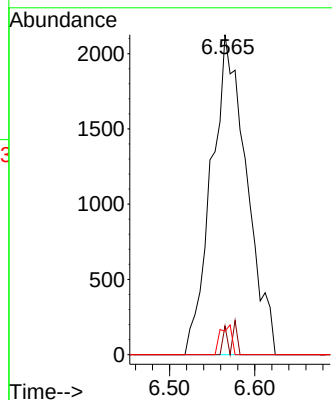
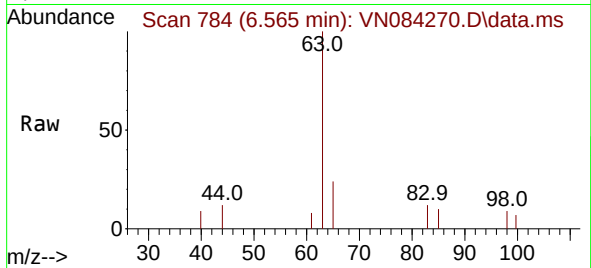




#24
 1,1-Dichloroethane
 Concen: 1.658 ug/l
 RT: 6.565 min Scan# 71
 Delta R.T. -0.006 min
 Lab File: VN084270.D
 Acq: 02 Oct 2024 17:21

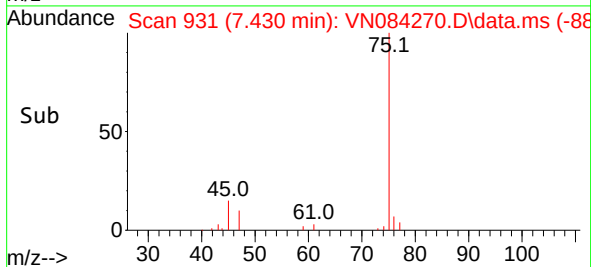
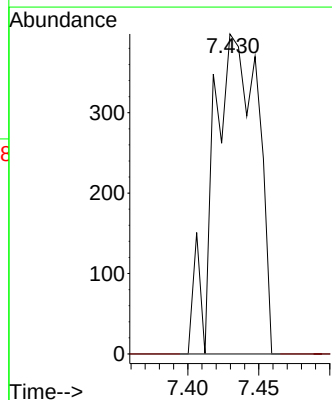
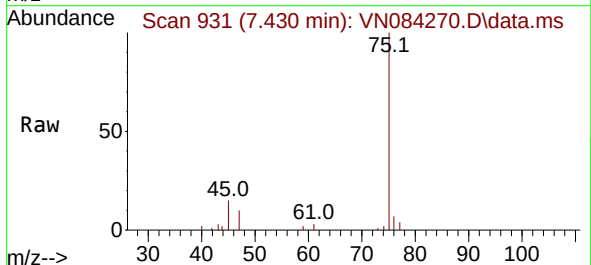
Instrument :
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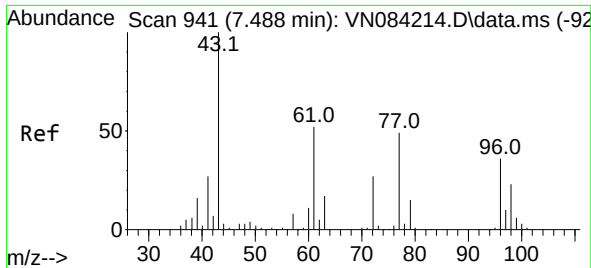
Tgt Ion: 63 Resp: 6084
 Ion Ratio Lower Upper
 63 100
 98 9.0 3.4 10.2
 100 7.3 2.0 5.8#



#25
 2-Butanone
 Concen: 0.615 ug/l
 RT: 7.430 min Scan# 931
 Delta R.T. -0.053 min
 Lab File: VN084270.D
 Acq: 02 Oct 2024 17:21

Tgt Ion: 43 Resp: 865
 Ion Ratio Lower Upper
 43 100
 72 0.0 21.4 32.2#

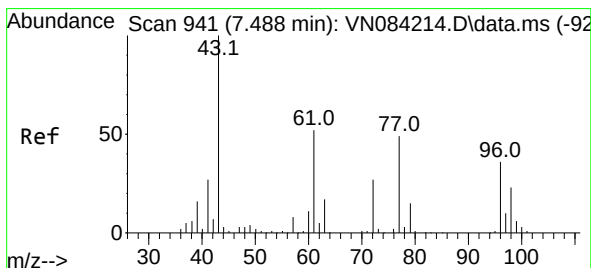
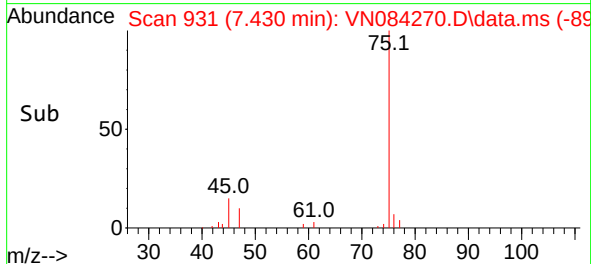
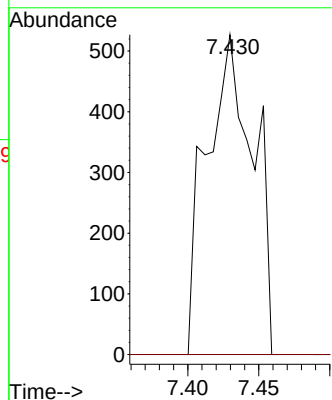
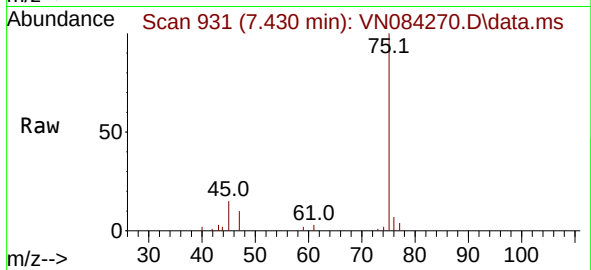




#26
2,2-Dichloropropane
Concen: 0.365 ug/l
RT: 7.430 min Scan# 91
Delta R.T. -0.059 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

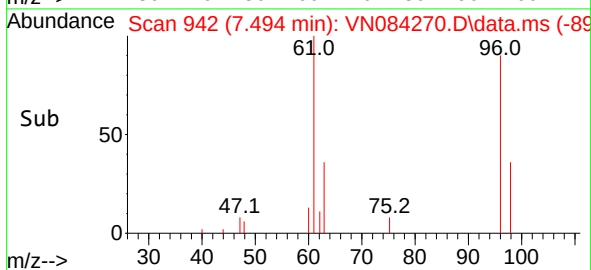
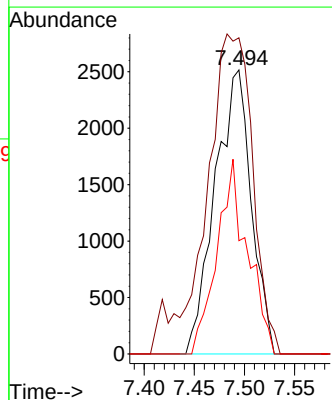
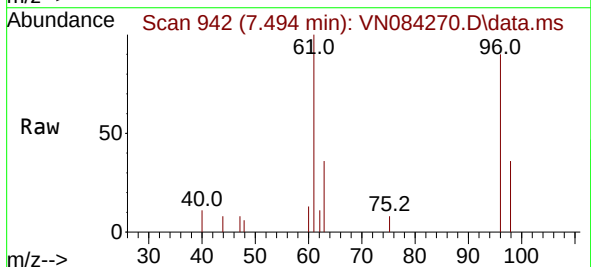
Instrument :
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ClientSampleId :
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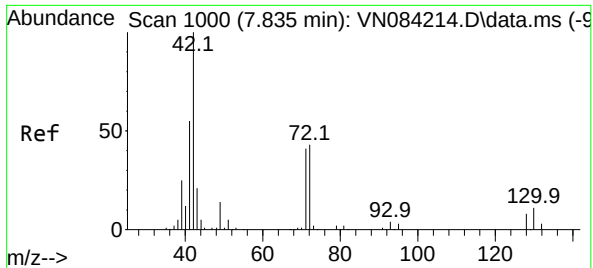
Tgt Ion: 77 Resp: 1207
Ion Ratio Lower Upper
77 100
97 0.0 10.8 32.3#



#27
cis-1,2-Dichloroethene
Concen: 2.736 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

Tgt Ion: 96 Resp: 6327
Ion Ratio Lower Upper
96 100
61 136.5 0.0 301.8
98 57.5 0.0 128.2

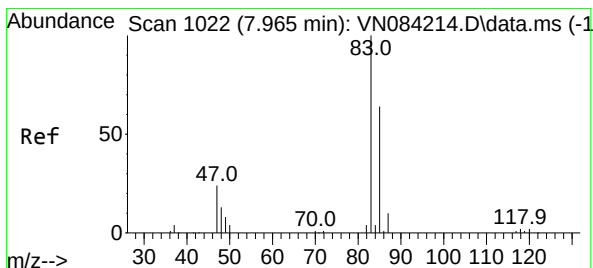
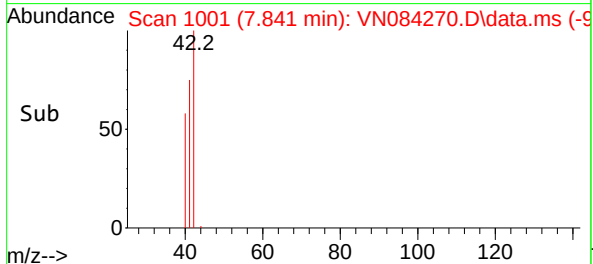
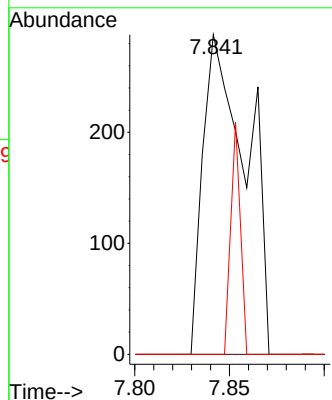
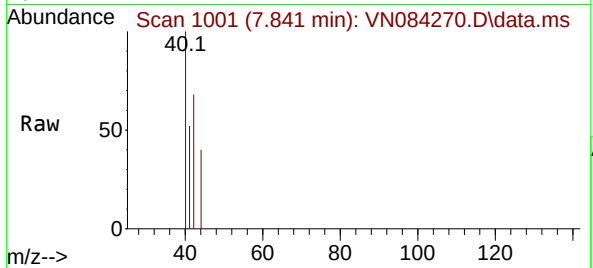




#29
Tetrahydrofuran
Concen: 0.529 ug/l
RT: 7.841 min Scan# 1000
Delta R.T. 0.006 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

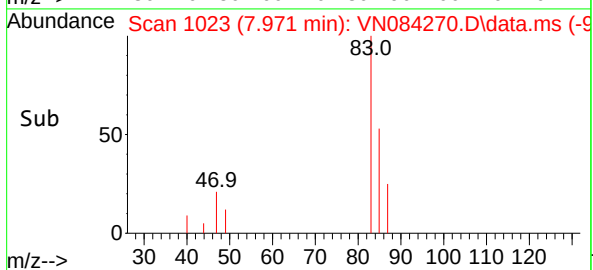
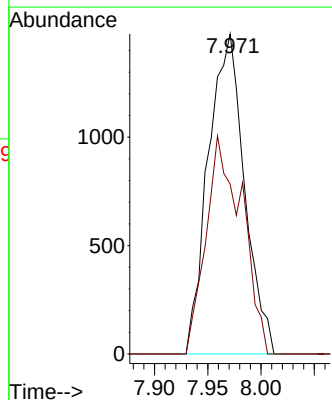
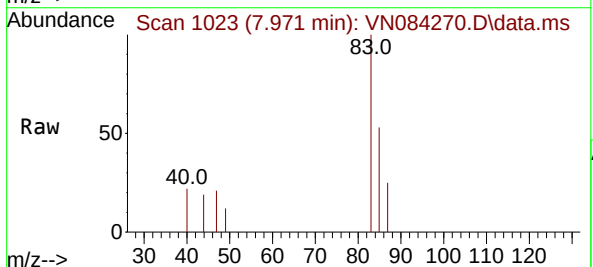
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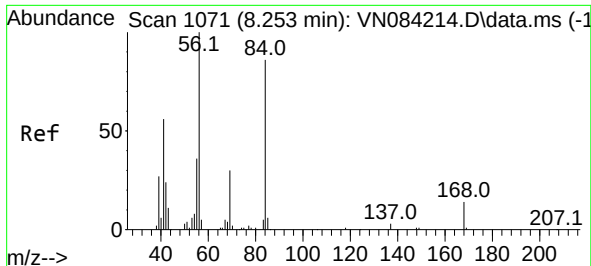
Tgt Ion: 42 Resp: 459
Ion Ratio Lower Upper
42 100
72 0.0 34.6 51.8#
71 16.1 32.2 48.4#



#30
Chloroform
Concen: 0.915 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.006 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

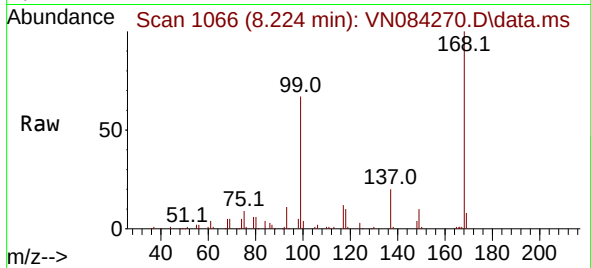
Tgt Ion: 83 Resp: 3486
Ion Ratio Lower Upper
83 100
85 53.1 51.0 76.4



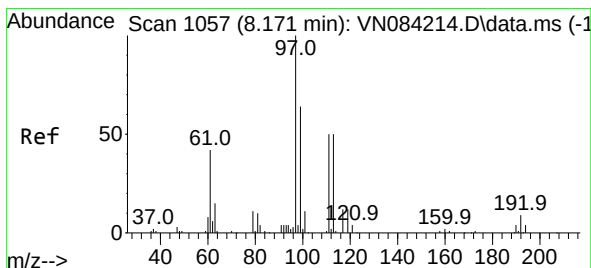
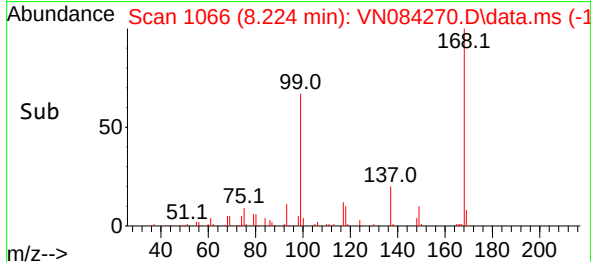
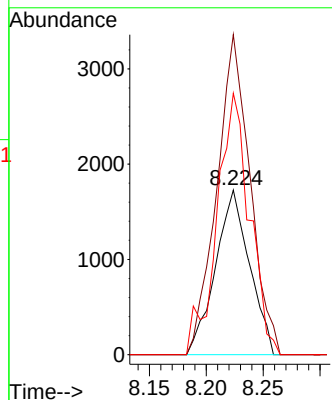


#31
Cyclohexane
Concen: 1.011 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

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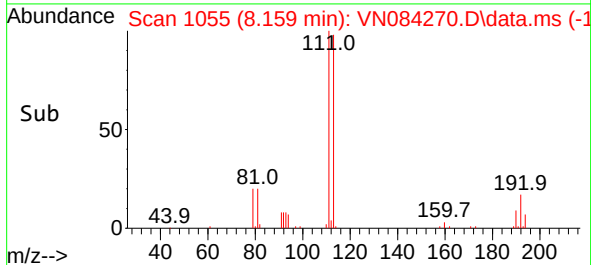
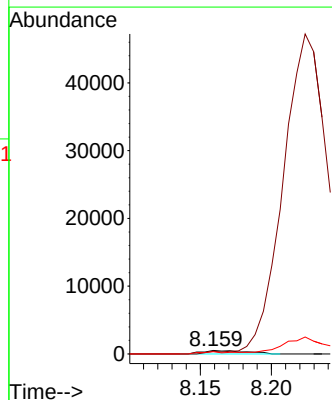
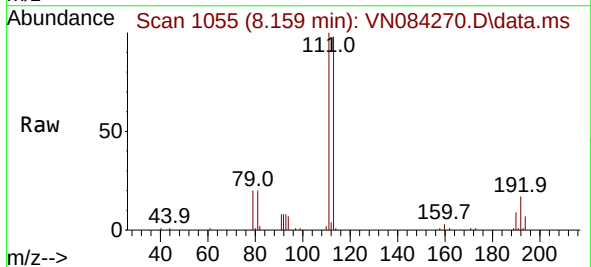


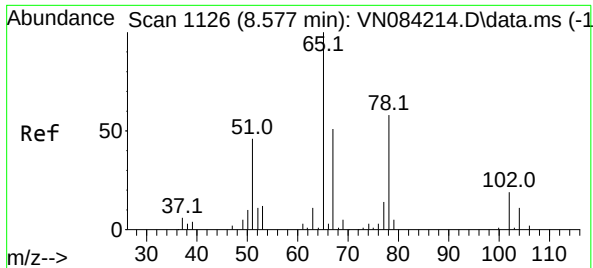
Tgt Ion: 56 Resp: 3603
Ion Ratio Lower Upper
56 100
69 194.4 23.8 35.6#
84 158.9 68.8 103.2#



#32
1,1,1-Trichloroethane
Concen: 0.318 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.012 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

Tgt Ion: 97 Resp: 1088
Ion Ratio Lower Upper
97 100
99 0.0 51.2 76.8#
61 45.4 37.5 56.3

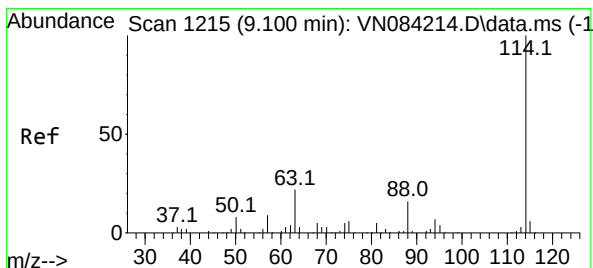
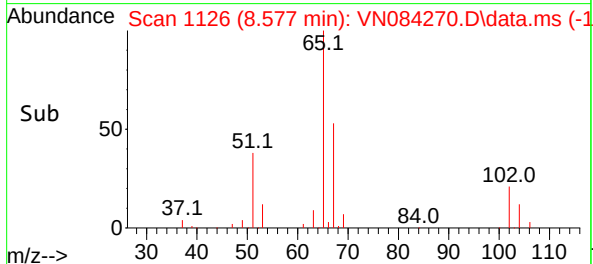
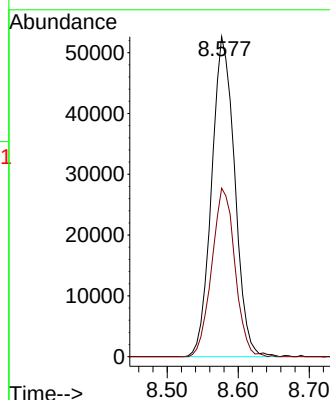
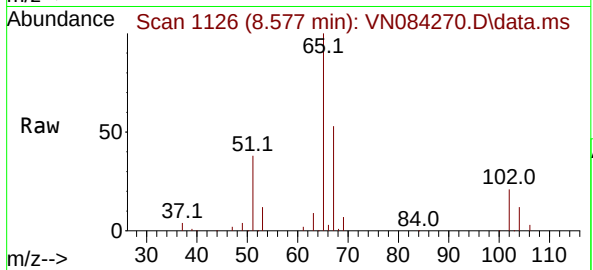




#33
 1,2-Dichloroethane-d4
 Concen: 49.362 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. 0.000 min
 Lab File: VN084270.D
 Acq: 02 Oct 2024 17:21

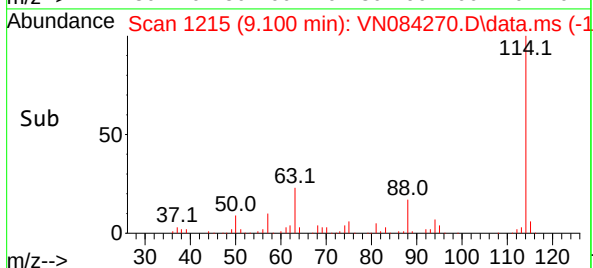
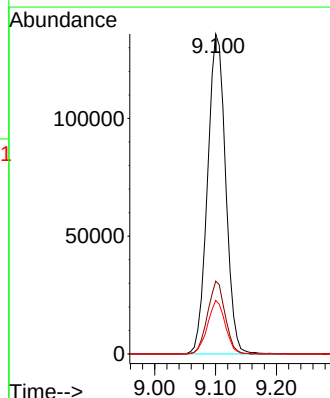
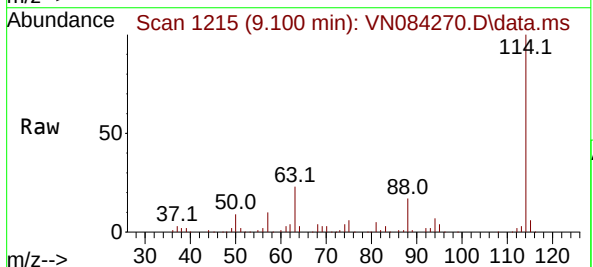
Instrument :
 MSVOA_N
 ClientSampleId :
 TT101D2-20240925

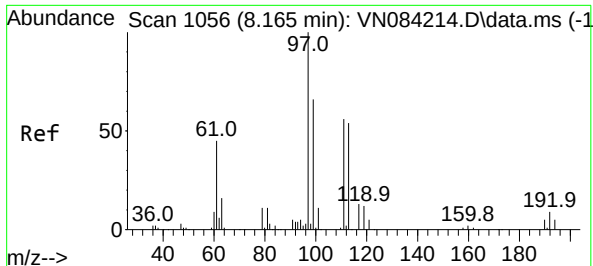
Tgt Ion: 65 Resp: 118728
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. 0.000 min
 Lab File: VN084270.D
 Acq: 02 Oct 2024 17:21

Tgt Ion: 114 Resp: 280035
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 43.8
 88 16.7 0.0 31.6

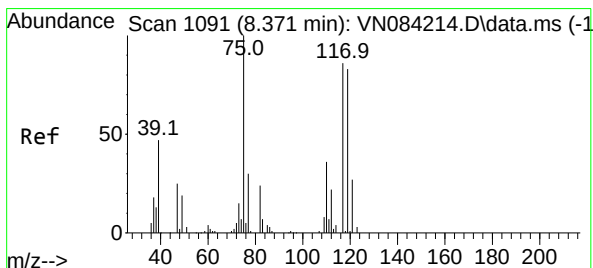
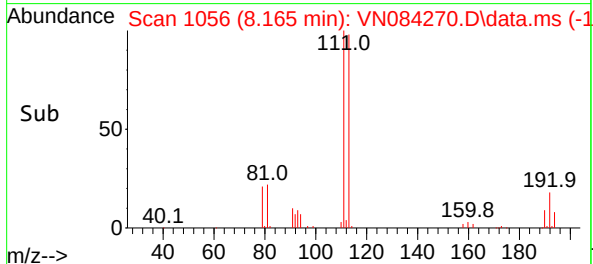
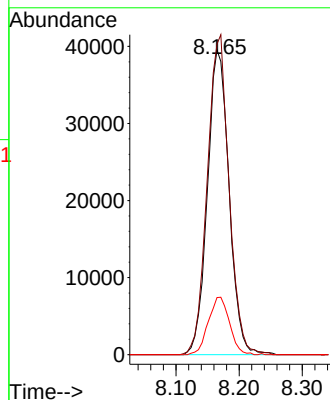
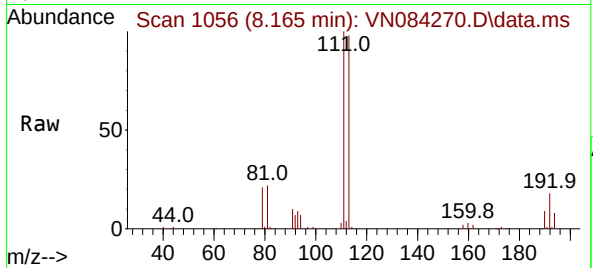




#35
Dibromofluoromethane
Concen: 51.033 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

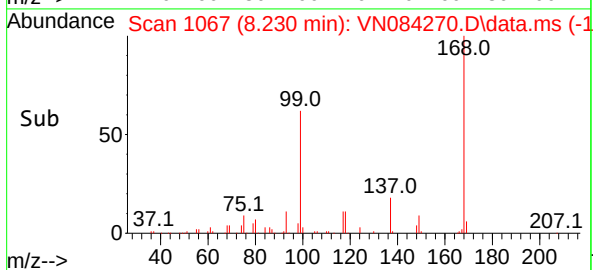
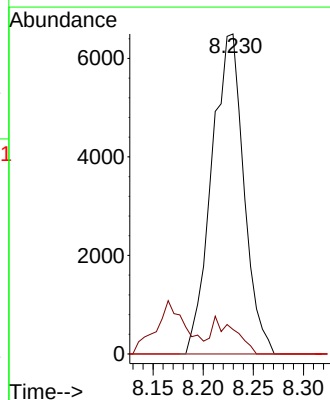
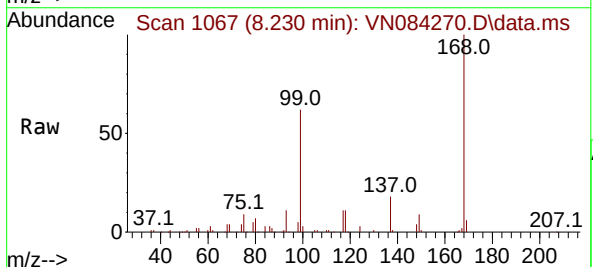
Instrument :
MSVOA_N
ClientSampleId :
TT101D2-20240925

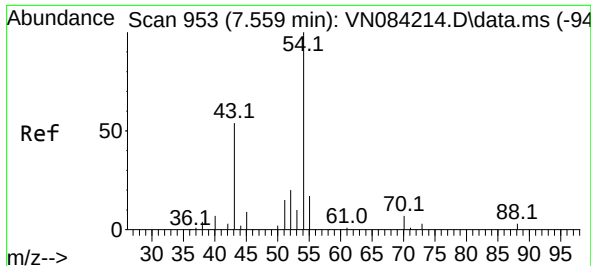
Tgt Ion:113 Resp: 94215
Ion Ratio Lower Upper
113 100
111 105.1 83.3 124.9
192 18.4 13.5 20.3



#36
1,1-Dichloropropene
Concen: 5.409 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

Tgt Ion: 75 Resp: 14505
Ion Ratio Lower Upper
75 100
110 8.5 16.9 50.7#
77 0.0 24.7 37.1#

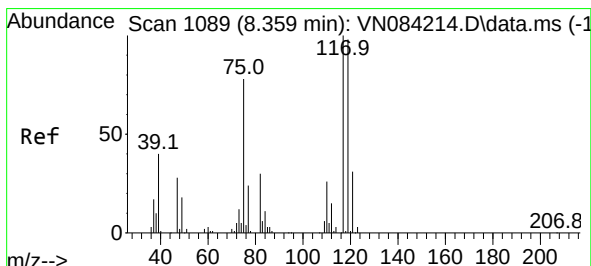
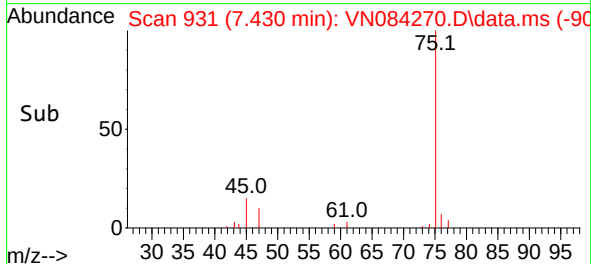
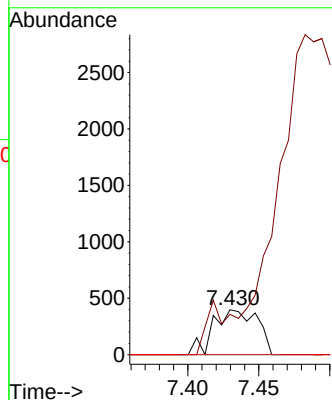
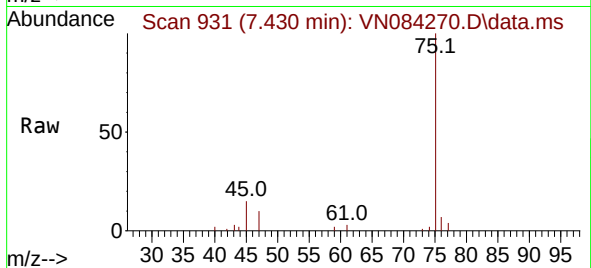




#37
Ethyl Acetate
Concen: 0.314 ug/l
RT: 7.430 min Scan# 91
Delta R.T. -0.129 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

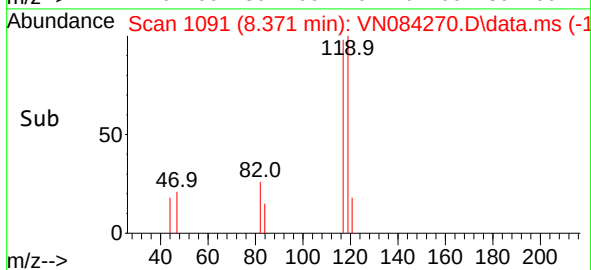
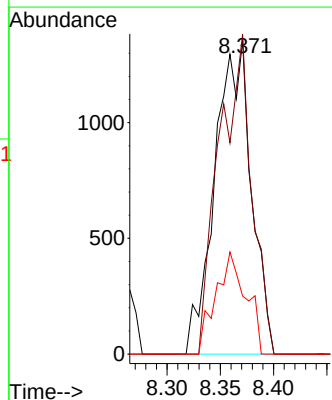
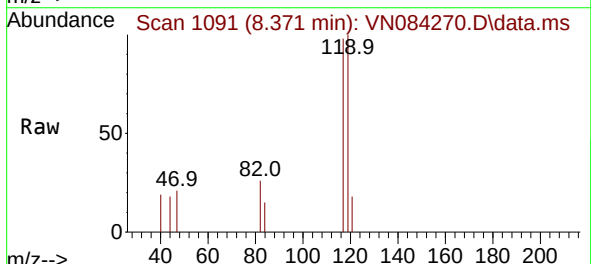
Instrument :
MSVOA_N
ClientSampleId :
TT101D2-20240925

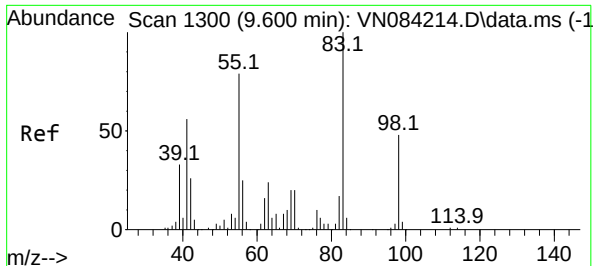
Tgt Ion: 43 Resp: 865
Ion Ratio Lower Upper
43 100
61 68.6 10.7 16.1#
70 0.0 8.8 13.2#



#38
Carbon Tetrachloride
Concen: 1.092 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.012 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

Tgt Ion: 117 Resp: 3212
Ion Ratio Lower Upper
117 100
119 102.0 78.7 118.1
121 18.5 24.4 36.6#





#39

Methylcyclohexane

Concen: 11.603 ug/l

RT: 9.353 min Scan# 1128

Delta R.T. -0.247 min

Lab File: VN084270.D

Acq: 02 Oct 2024 17:21

Instrument :

MSVOA_N

ClientSampleId :

TT101D2-20240925

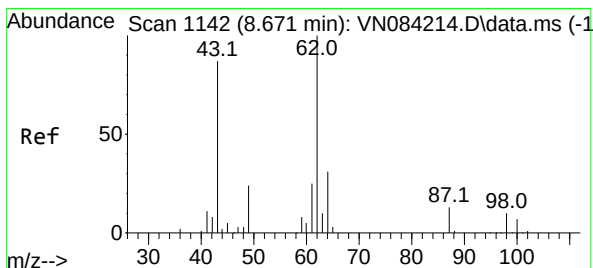
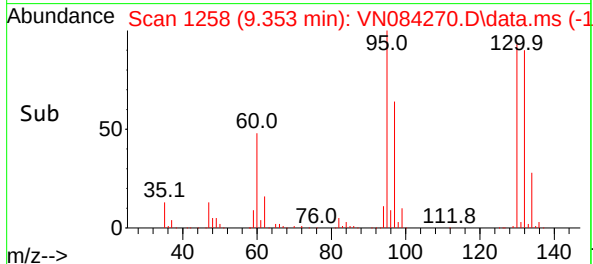
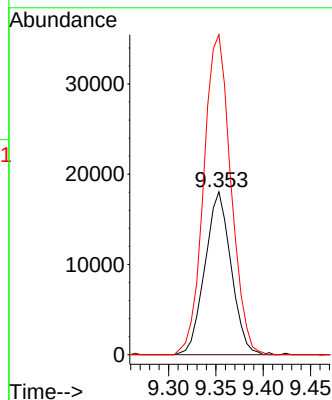
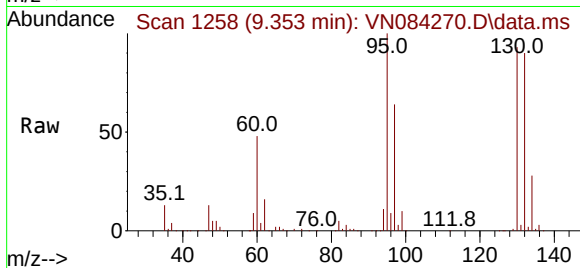
Tgt Ion: 83 Resp: 34631

Ion Ratio Lower Upper

83 100

55 0.0 62.8 94.2#

98 196.5 38.8 58.2#



#42

1,2-Dichloroethane

Concen: 0.277 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VN084270.D

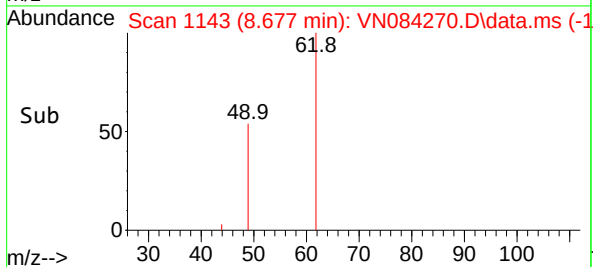
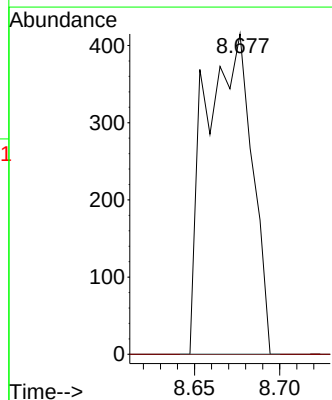
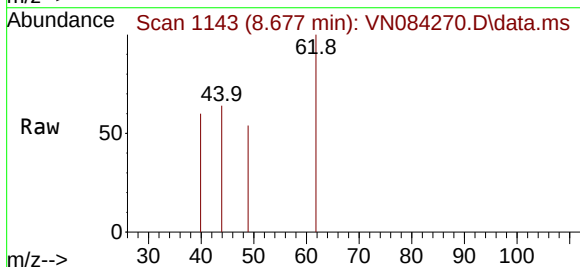
Acq: 02 Oct 2024 17:21

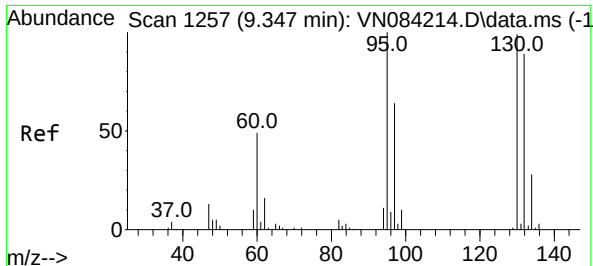
Tgt Ion: 62 Resp: 786

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2

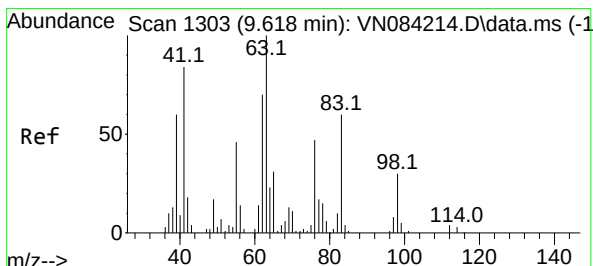
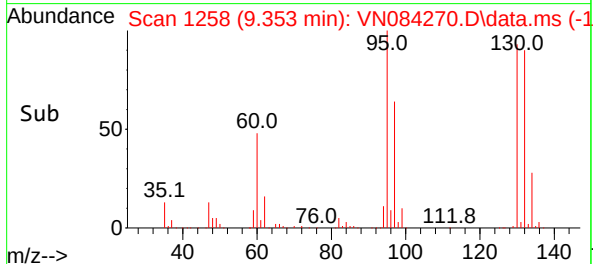
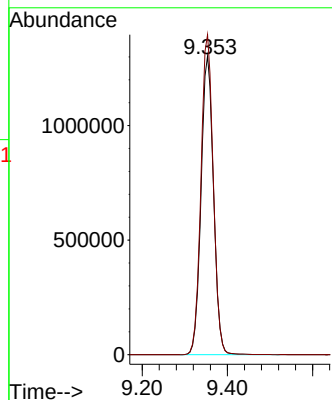
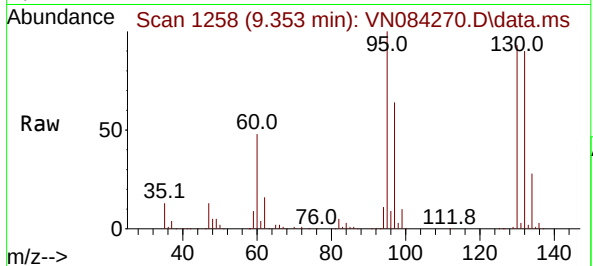




#44
Trichloroethene
Concen: 1351.325 ug/l
RT: 9.353 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

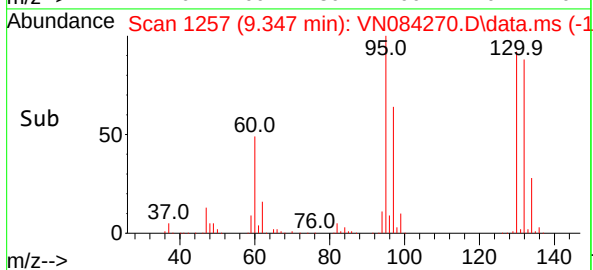
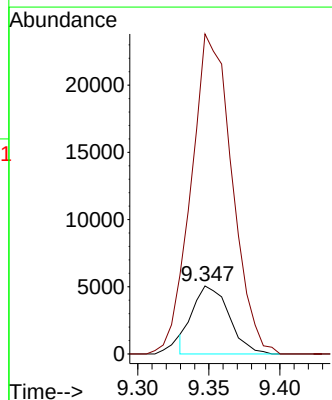
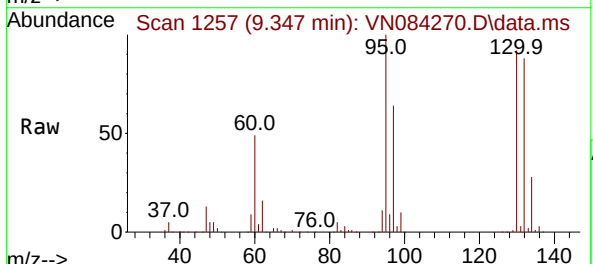
Instrument :
MSVOA_N
ClientSampleId :
TT101D2-20240925

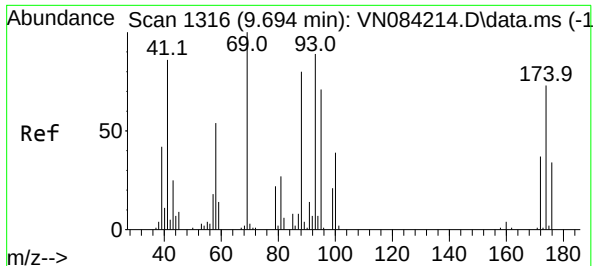
Tgt Ion:130 Resp: 2636970
Ion Ratio Lower Upper
130 100
95 107.1 0.0 203.0



#45
1,2-Dichloropropane
Concen: 4.547 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.270 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

Tgt Ion: 63 Resp: 8987
Ion Ratio Lower Upper
63 100
65 470.9 24.6 37.0#





#49

1,4-Dioxane

Concen: 2.583 ug/l

RT: 9.688 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN084270.D

Acq: 02 Oct 2024 17:21

Instrument :

MSVOA_N

ClientSampleId :

TT101D2-20240925

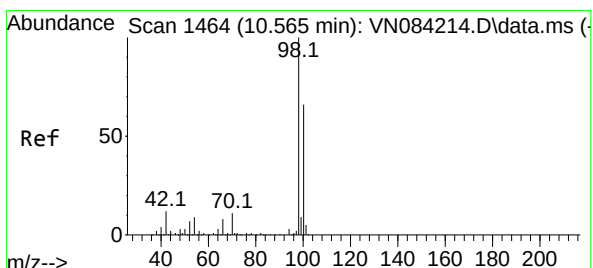
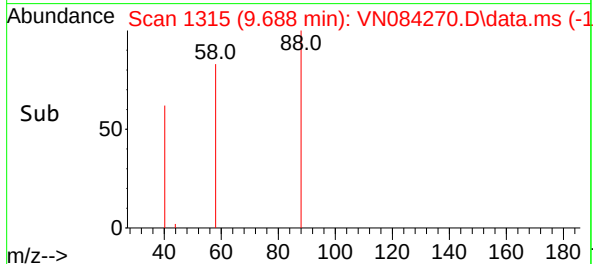
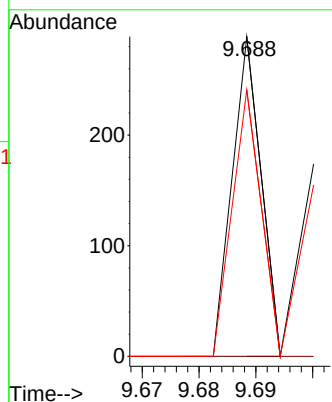
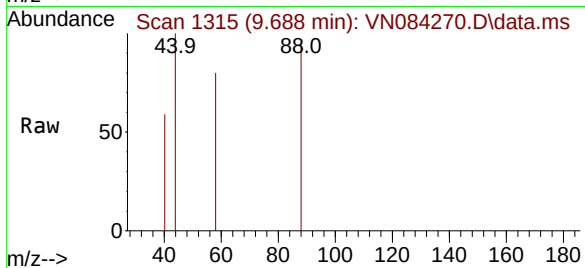
Tgt Ion: 88 Resp: 102

Ion Ratio Lower Upper

88 100

43 0.0 25.3 37.9#

58 83.3 56.4 84.6



#50

Toluene-d8

Concen: 51.535 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN084270.D

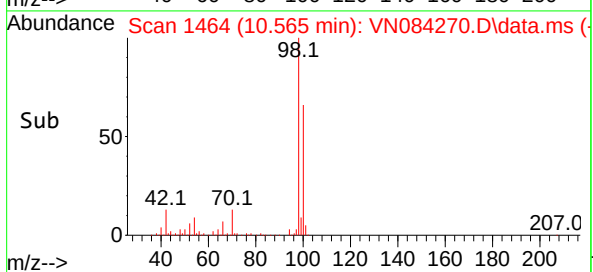
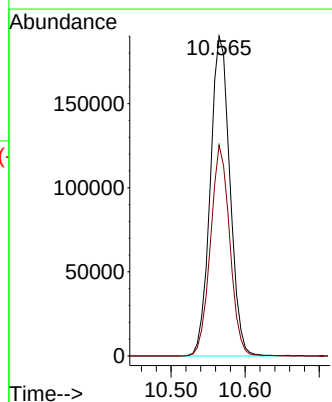
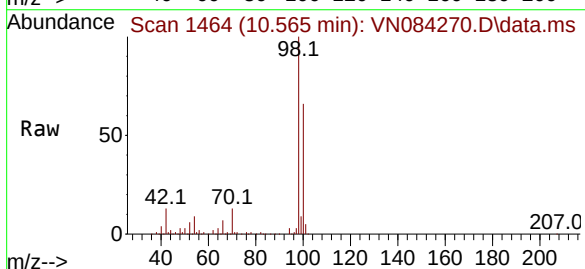
Acq: 02 Oct 2024 17:21

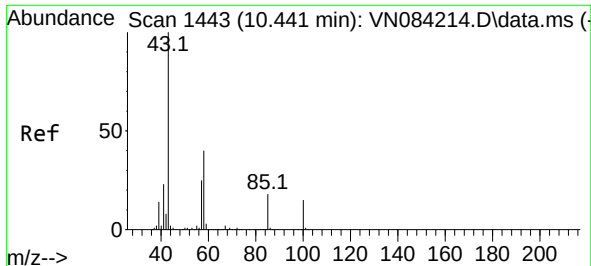
Tgt Ion: 98 Resp: 350040

Ion Ratio Lower Upper

98 100

100 64.7 52.7 79.1





#51

4-Methyl-2-Pentanone

Concen: 0.585 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.124 min

Lab File: VN084270.D

Acq: 02 Oct 2024 17:21

Instrument :

MSVOA_N

ClientSampleId :

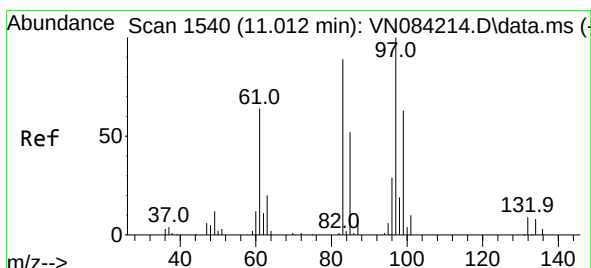
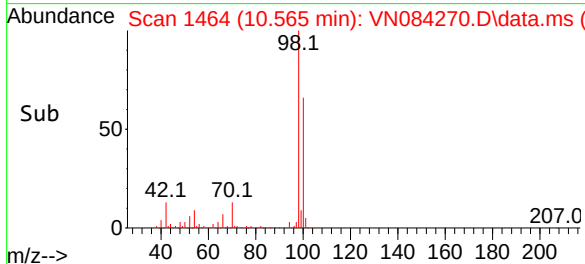
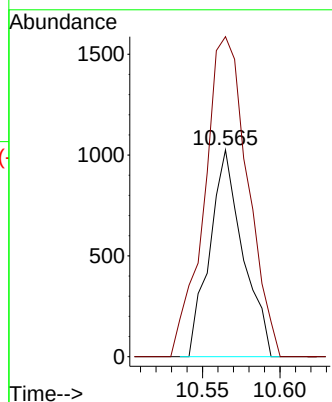
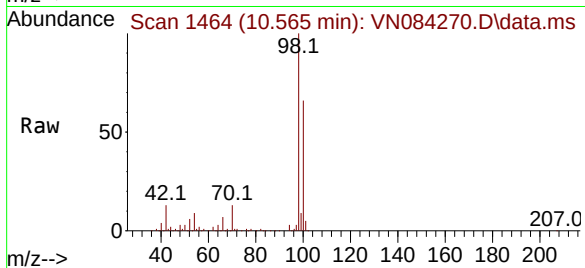
TT101D2-20240925

Tgt Ion: 43 Resp: 1531

Ion Ratio Lower Upper

43 100

58 201.6 31.6 47.4#



#55

1,1,2-Trichloroethane

Concen: 0.998 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. 0.006 min

Lab File: VN084270.D

Acq: 02 Oct 2024 17:21

Tgt Ion: 97 Resp: 1822

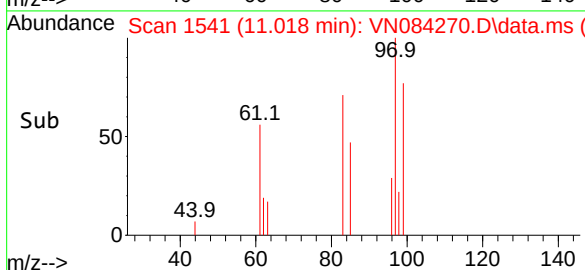
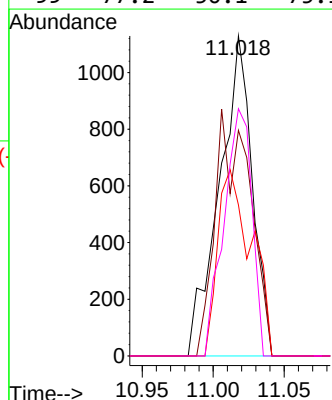
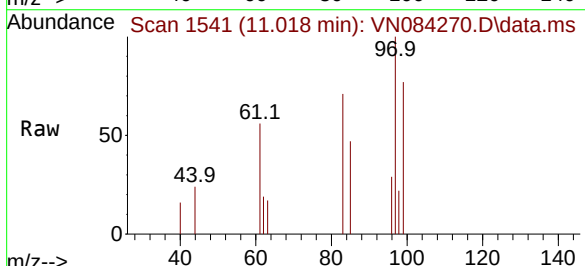
Ion Ratio Lower Upper

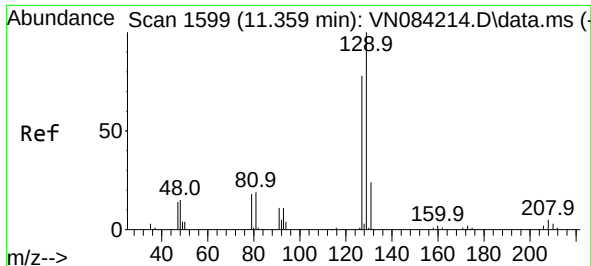
97 100

83 70.5 71.0 106.4#

85 47.2 41.7 62.5

99 77.2 50.1 75.1#

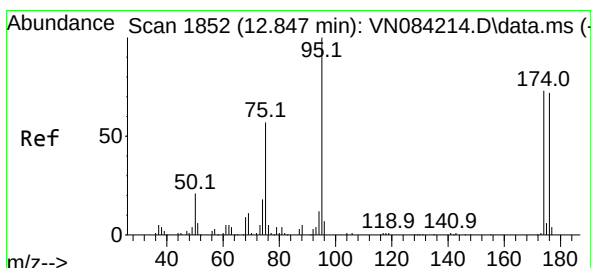
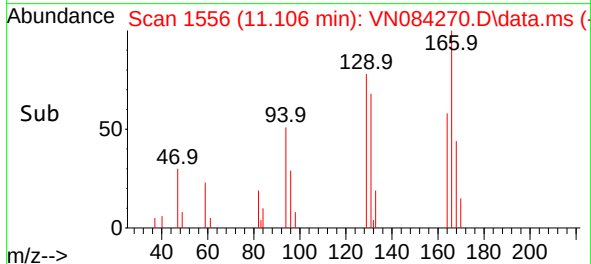
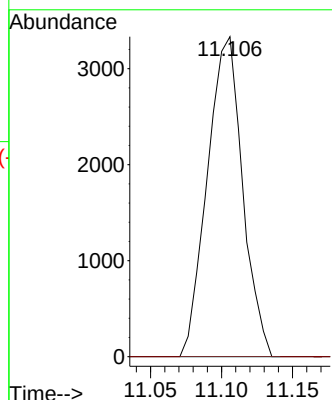
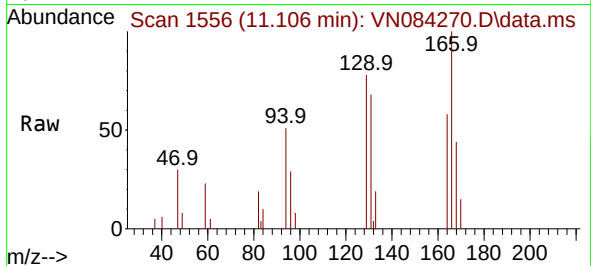




#60
Dibromochloromethane
Concen: 2.666 ug/l
RT: 11.106 min Scan# 11
Delta R.T. -0.253 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

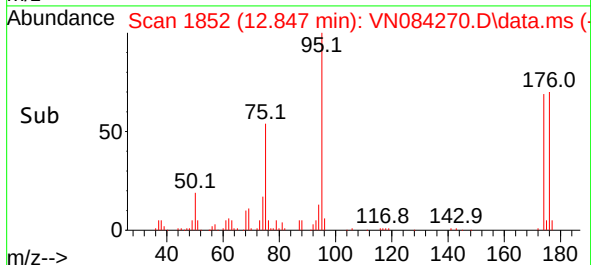
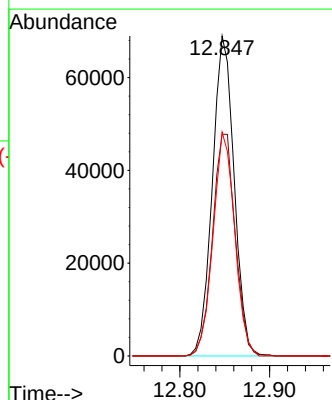
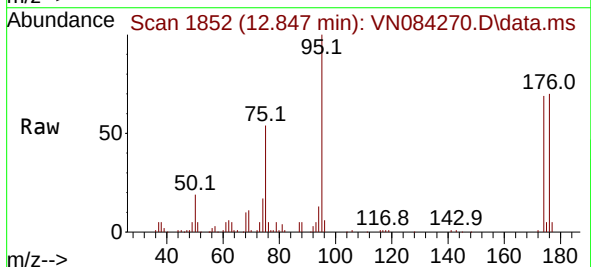
Instrument :
MSVOA_N
ClientSampleId :
TT101D2-20240925

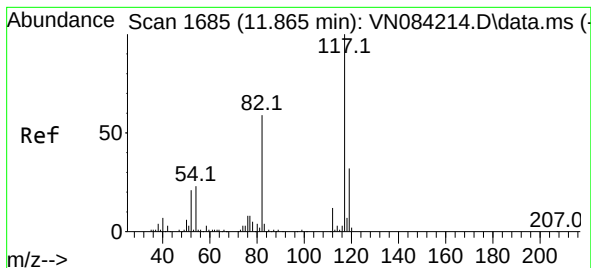
Tgt Ion:129 Resp: 5754
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.9#



#62
4-Bromofluorobenzene
Concen: 46.898 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

Tgt Ion: 95 Resp: 116047
Ion Ratio Lower Upper
95 100
174 72.6 0.0 145.2
176 69.5 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN084270.D

Acq: 02 Oct 2024 17:21

Instrument :

MSVOA_N

ClientSampleId :

TT101D2-20240925

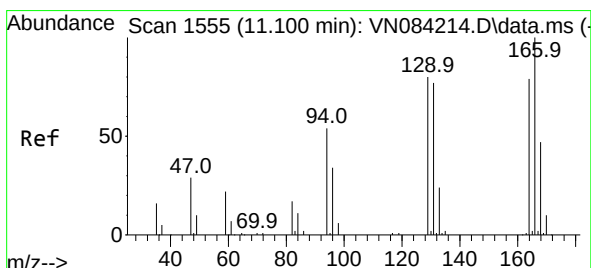
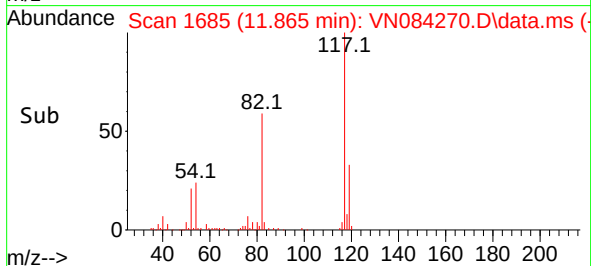
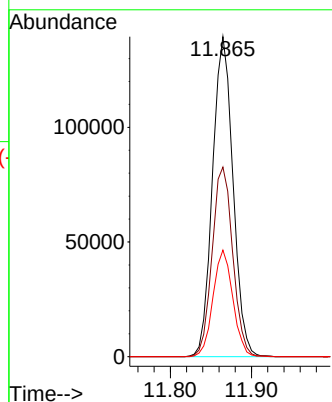
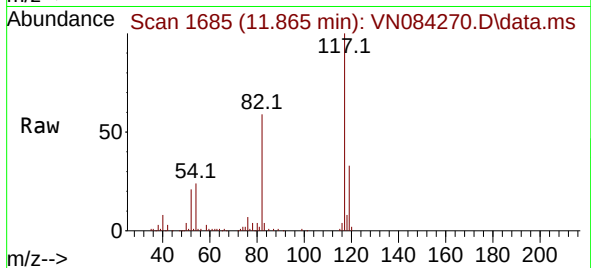
Tgt Ion:117 Resp: 244697

Ion Ratio Lower Upper

117 100

82 59.3 47.2 70.8

119 33.3 25.4 38.0



#64

Tetrachloroethene

Concen: 3.168 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN084270.D

Acq: 02 Oct 2024 17:21

Tgt Ion:164 Resp: 5399

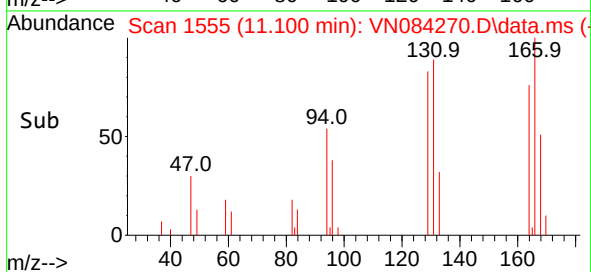
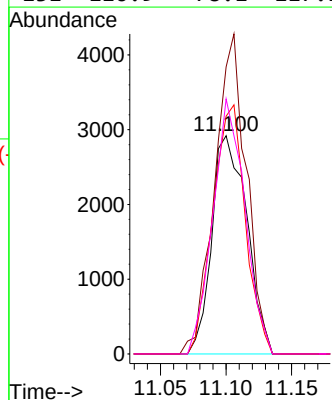
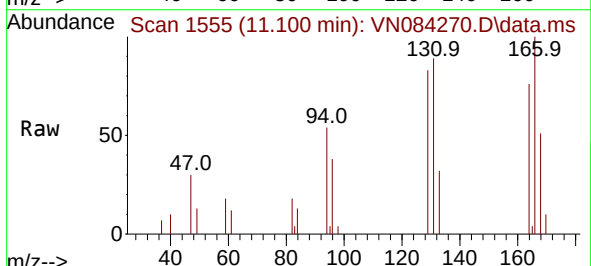
Ion Ratio Lower Upper

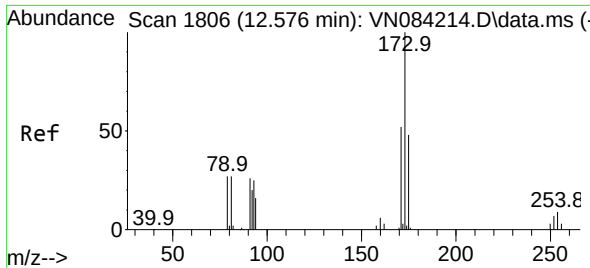
164 100

166 131.5 101.0 151.4

129 108.9 80.8 121.2

131 116.9 78.1 117.1





#71

Bromoform

Concen: 0.353 ug/l

RT: 12.841 min Scan# 11

Delta R.T. 0.265 min

Lab File: VN084270.D

Acq: 02 Oct 2024 17:21

Instrument :

MSVOA_N

ClientSampleId :

TT101D2-20240925

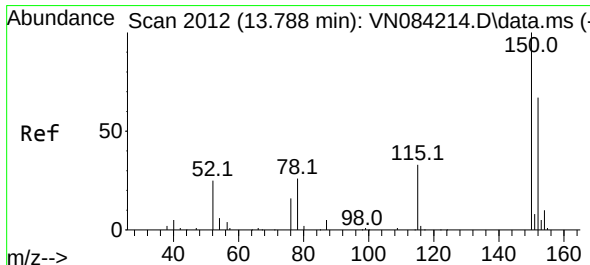
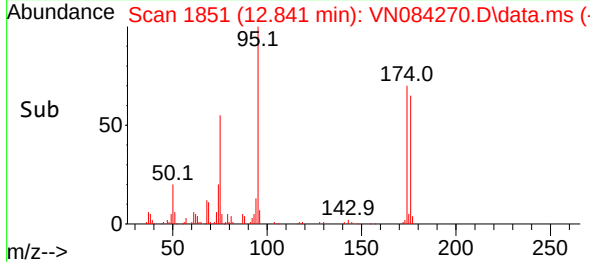
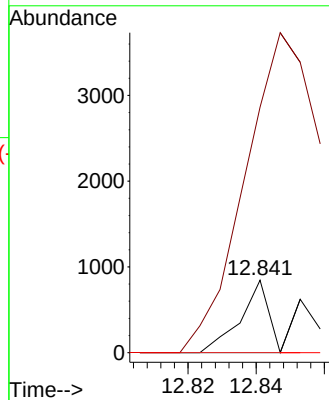
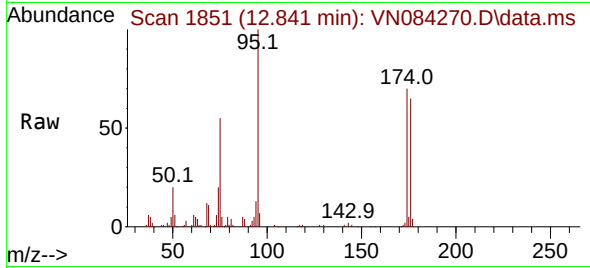
Tgt Ion:173 Resp: 486

Ion Ratio Lower Upper

173 100

175 931.9 23.5 70.6#

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. 0.006 min

Lab File: VN084270.D

Acq: 02 Oct 2024 17:21

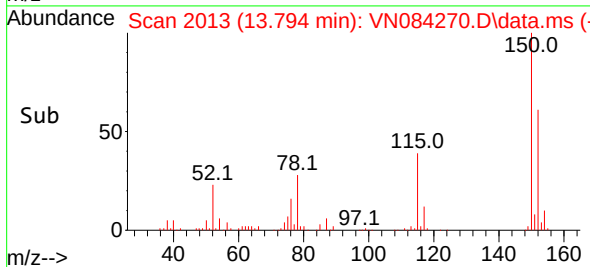
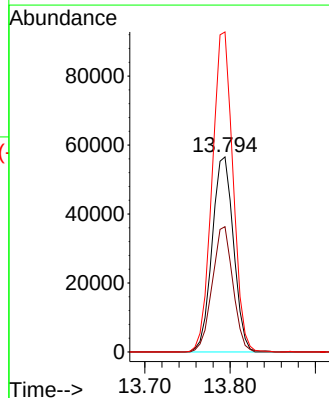
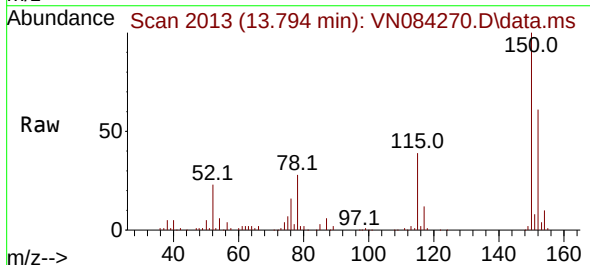
Tgt Ion:152 Resp: 98851

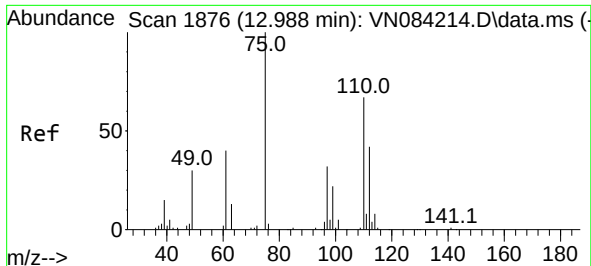
Ion Ratio Lower Upper

152 100

115 61.7 31.3 93.9

150 159.5 0.0 349.8

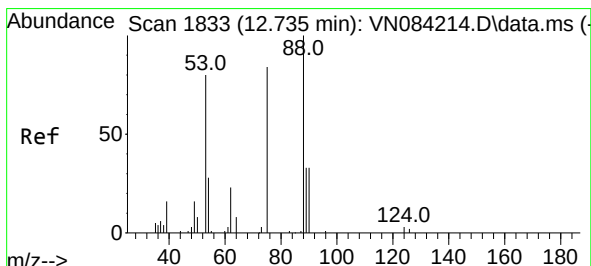
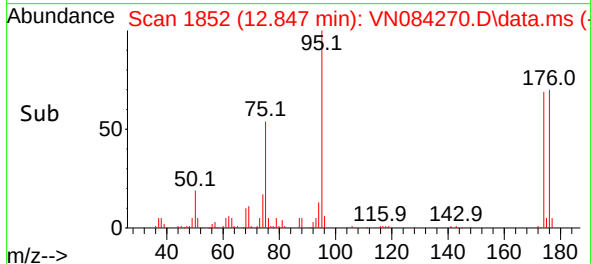
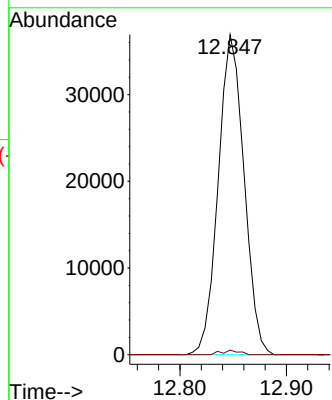
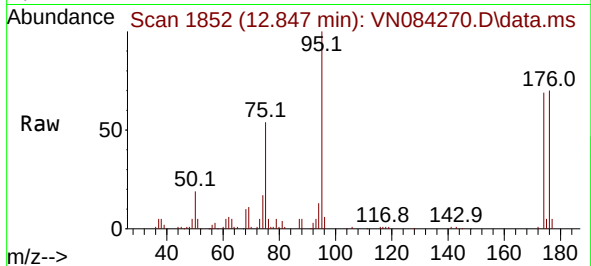




#76
1,2,3-Trichloropropane
Concen: 30.674 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

Instrument :
MSVOA_N
ClientSampleId :
TT101D2-20240925

Tgt Ion: 75 Resp: 61902
Ion Ratio Lower Upper
75 100
77 1.0 96.9 290.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.539 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084270.D
Acq: 02 Oct 2024 17:21

Tgt Ion: 75 Resp: 61902
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 35.5 53.3#

