

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102424\
 Data File : VN084485.D
 Acq On : 24 Oct 2024 13:58
 Operator : JC\MD
 Sample : VIBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

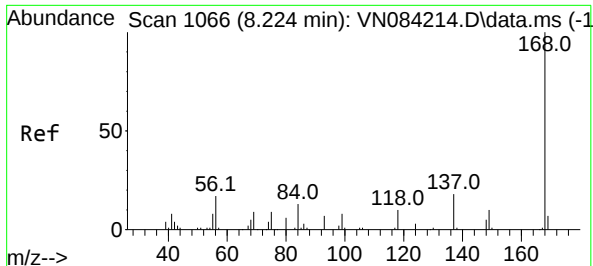
Quant Time: Oct 25 02:00:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	194664	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	339701	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	305703	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	131696	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	131616	45.601	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	91.200%
35) Dibromofluoromethane	8.165	113	102909	45.951	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	91.900%
50) Toluene-d8	10.565	98	413938	50.239	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.480%
62) 4-Bromofluorobenzene	12.847	95	150602	50.172	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	100.340%
Target Compounds						
					Qvalue	
5) Bromomethane	2.977	94	383	0.228	ug/l #	4
6) Chloroethane	3.112	64	365	0.200	ug/l #	45
31) Cyclohexane	8.224	56	4792	1.121	ug/l #	9
36) 1,1-Dichloropropene	8.224	75	16727	5.142	ug/l #	51
38) Carbon Tetrachloride	8.224	117	22263	6.239	ug/l #	16
46) Dibromomethane	9.694	93	602	0.372	ug/l #	43
48) Methyl methacrylate	9.694	41	1045	0.402	ug/l #	60
51) 4-Methyl-2-Pentanone	10.447	43	654	0.206	ug/l #	36
56) Ethyl methacrylate	10.876	69	1385	0.380	ug/l #	45
59) 2-Hexanone	11.188	43	611	0.257	ug/l #	24
66) 1,1,1,2-Tetrachloroethane	11.941	131	665	0.285	ug/l #	63
68) m/p-Xylenes	12.088	106	1150	0.259	ug/l #	37
71) Bromoform	12.582	173	1277	0.743	ug/l #	52
74) N-amyl acetate	12.500	43	1016	0.223	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.929	83	1136	0.376	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	79376	29.523	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.094	105	4208	0.513	ug/l #	29
81) trans-1,4-Dichloro-2-b...	12.847	75	79376	70.780	ug/l #	12
83) tert-Butylbenzene	13.329	119	22392	3.073	ug/l	91
84) 1,2,4-Trimethylbenzene	13.476	105	2363	0.286	ug/l #	32
85) sec-Butylbenzene	13.476	105	2363	0.243	ug/l	97
86) p-Isopropyltoluene	13.729	119	2689	0.334	ug/l #	59
87) 1,3-Dichlorobenzene	13.712	146	3230	0.710	ug/l #	46
90) Hexachloroethane	14.347	117	2685	1.645	ug/l #	19
91) 1,2-Dichlorobenzene	14.112	146	976	0.219	ug/l #	53
95) Naphthalene	15.635	128	8029	1.103	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.841	180	787	0.358	ug/l #	77

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

Quant Time: Oct 25 02:00:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
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QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

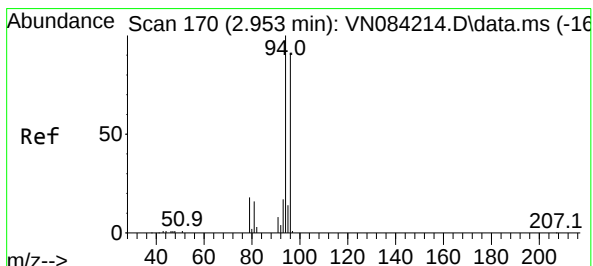
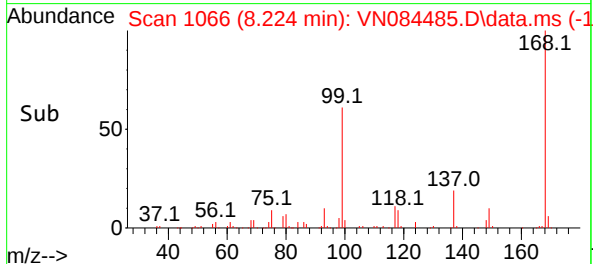
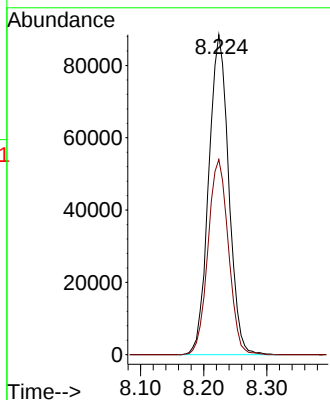
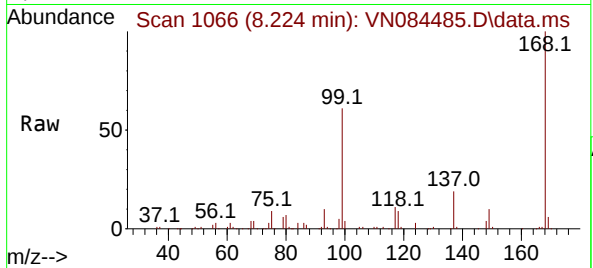




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

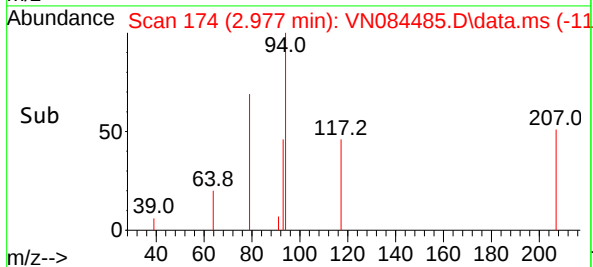
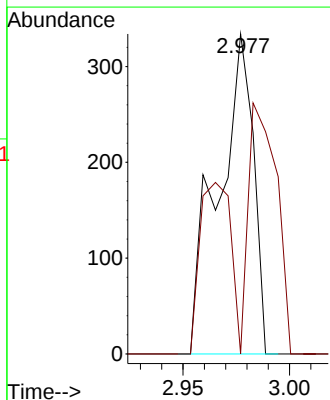
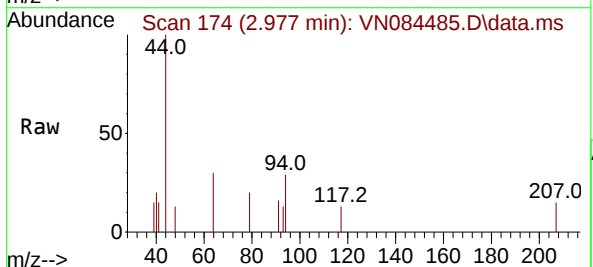
Instrument :
MSVOA_N
ClientSampleId :

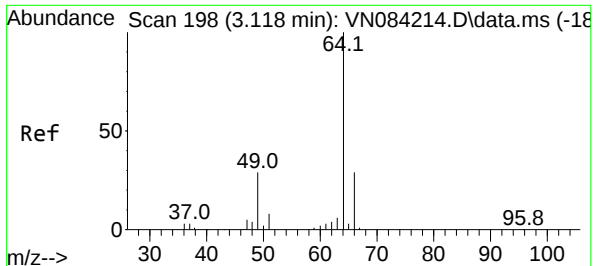
Tgt Ion:168 Resp: 194664
Ion Ratio Lower Upper
168 100
99 61.0 54.2 81.2



#5
Bromomethane
Concen: 0.228 ug/l
RT: 2.977 min Scan# 174
Delta R.T. 0.024 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

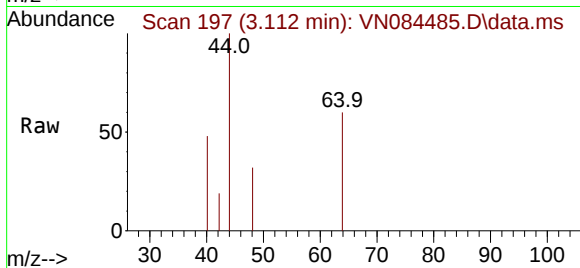
Tgt Ion: 94 Resp: 383
Ion Ratio Lower Upper
94 100
96 0.0 72.9 109.3#



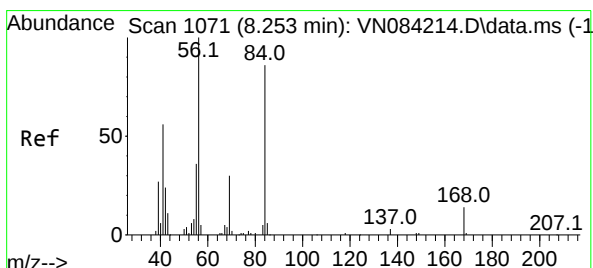
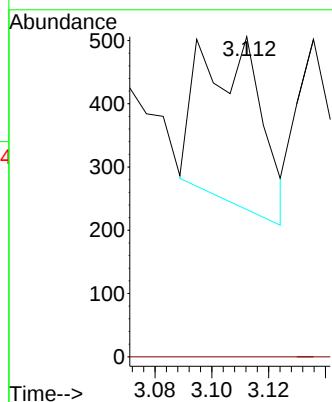
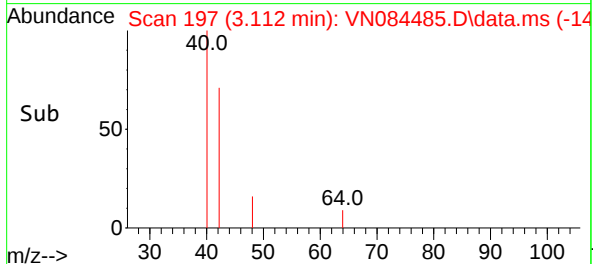


#6
Chloroethane
Concen: 0.200 ug/l
RT: 3.112 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

Instrument :
MSVOA_N
ClientSampleId :

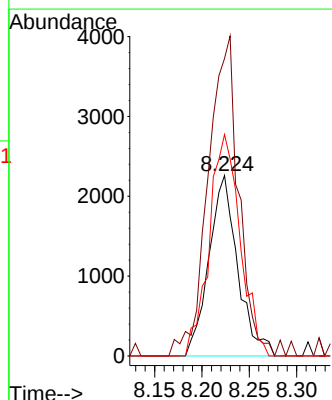
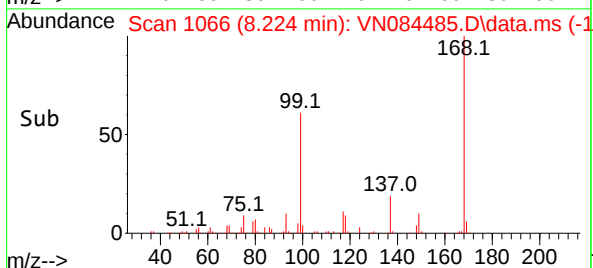
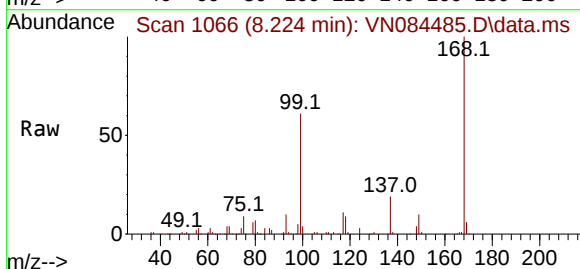


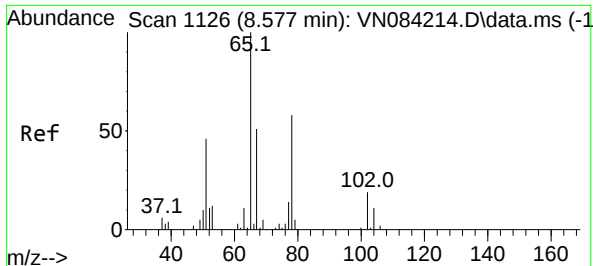
Tgt Ion: 64 Resp: 365
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#



#31
Cyclohexane
Concen: 1.121 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

Tgt Ion: 56 Resp: 4792
Ion Ratio Lower Upper
56 100
69 158.0 23.8 35.6#
84 122.7 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 45.601 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN084485.D

Acq: 24 Oct 2024 13:58

Instrument :

MSVOA_N

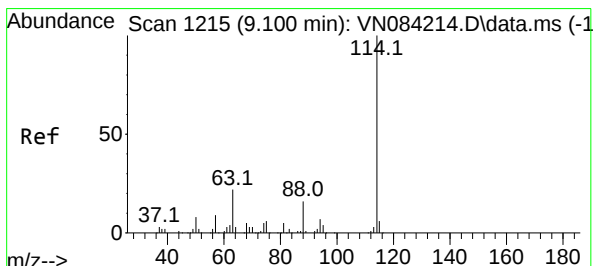
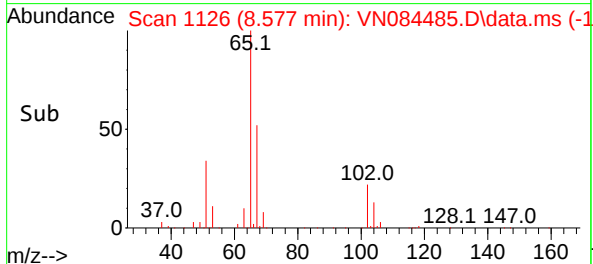
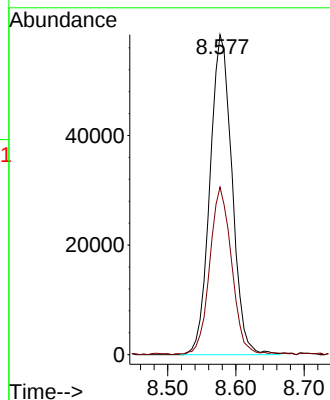
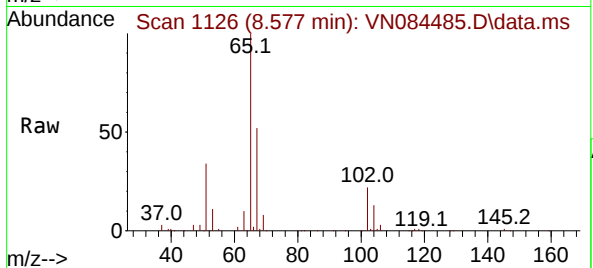
ClientSampleId :

Tgt Ion: 65 Resp: 131616

Ion Ratio Lower Upper

65 100

67 52.2 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: VN084485.D

Acq: 24 Oct 2024 13:58

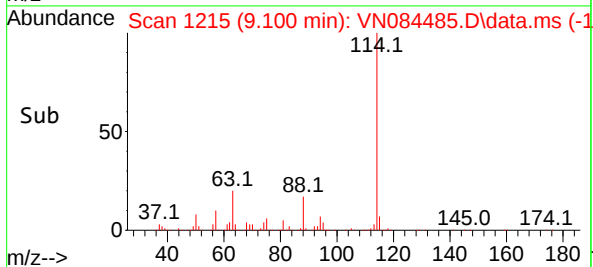
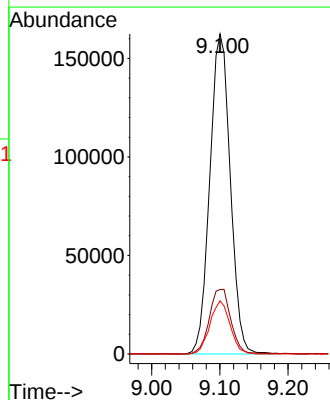
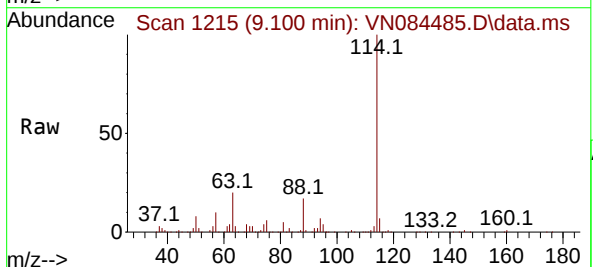
Tgt Ion: 114 Resp: 339701

Ion Ratio Lower Upper

114 100

63 20.1 0.0 43.8

88 16.6 0.0 31.6





#35

Dibromofluoromethane

Concen: 45.951 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN084485.D

Acq: 24 Oct 2024 13:58

Instrument :

MSVOA_N

ClientSampleId :

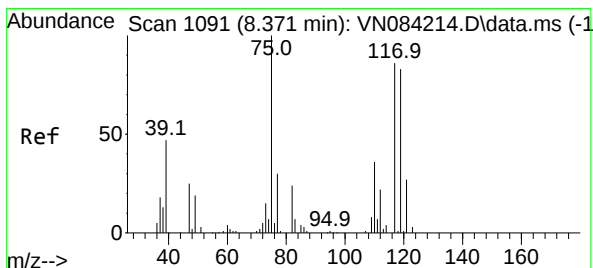
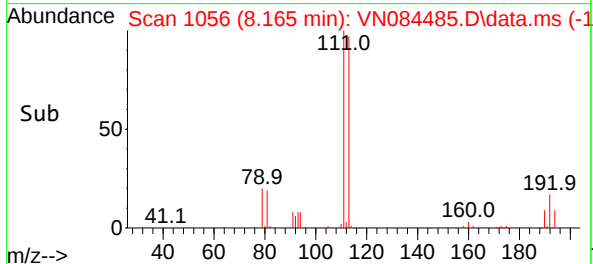
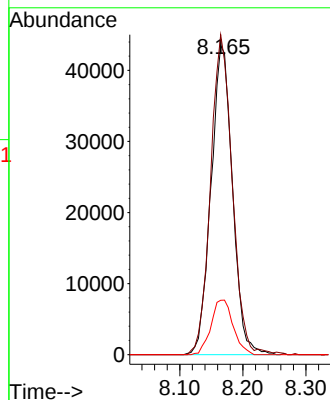
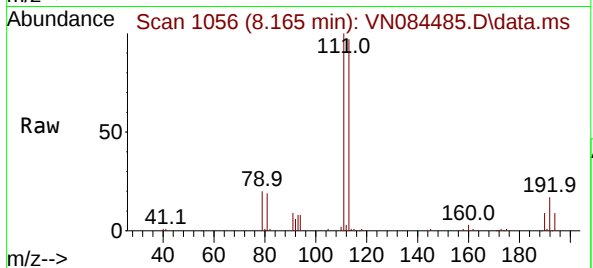
Tgt Ion:113 Resp: 102909

Ion Ratio Lower Upper

113 100

111 104.3 83.3 124.9

192 18.2 13.5 20.3



#36

1,1-Dichloropropene

Concen: 5.142 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN084485.D

Acq: 24 Oct 2024 13:58

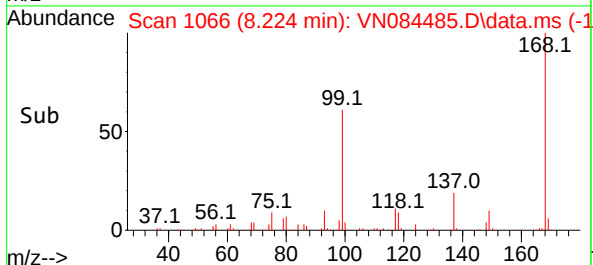
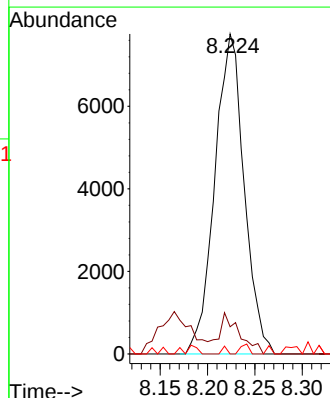
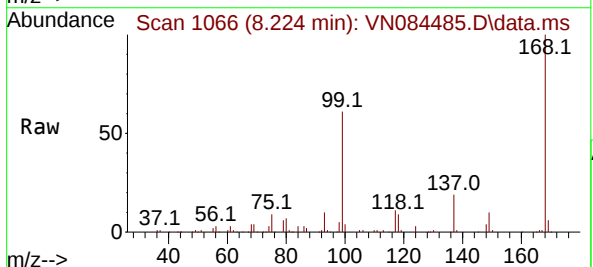
Tgt Ion: 75 Resp: 16727

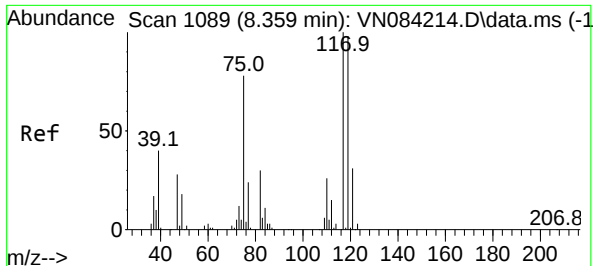
Ion Ratio Lower Upper

75 100

110 9.0 16.9 50.7#

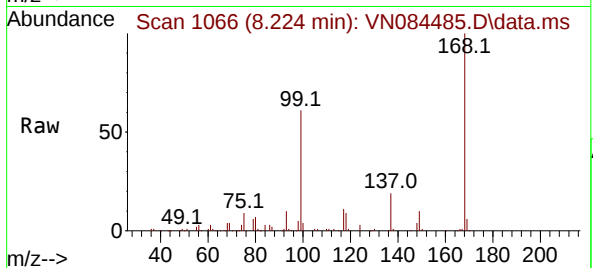
77 0.4 24.7 37.1#



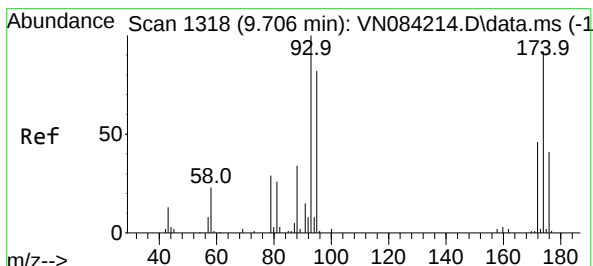
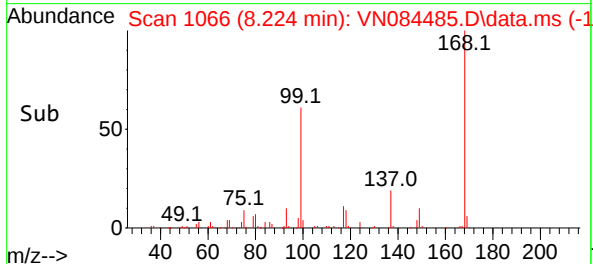
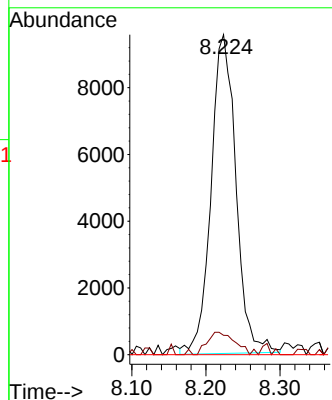


#38
Carbon Tetrachloride
Concen: 6.239 ug/l
RT: 8.224 min Scan# 117
Delta R.T. -0.135 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

Instrument :
MSVOA_N
ClientSampleId :

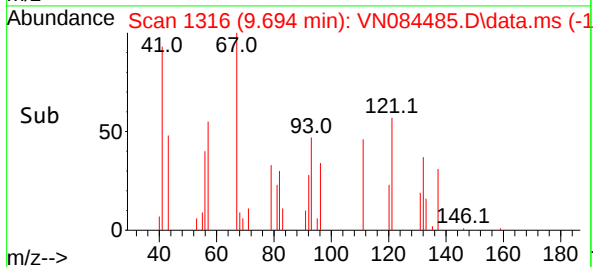
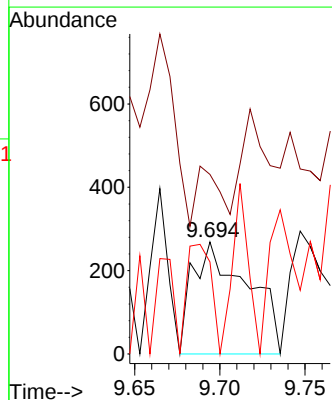
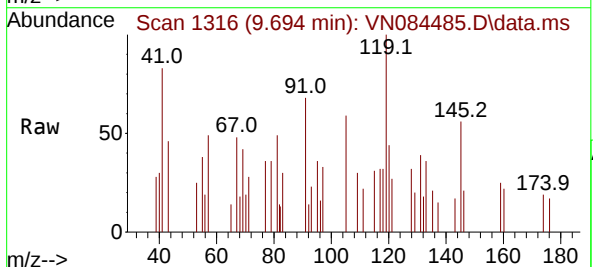


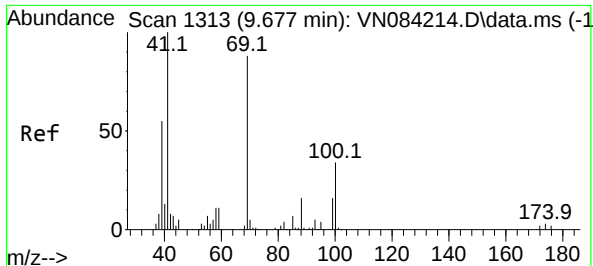
Tgt Ion:117 Resp: 22263
Ion Ratio Lower Upper
117 100
119 6.2 78.7 118.1#
121 0.0 24.4 36.6#



#46
Dibromomethane
Concen: 0.372 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. -0.012 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

Tgt Ion: 93 Resp: 602
Ion Ratio Lower Upper
93 100
95 22.4 65.0 97.4#
174 43.5 71.8 107.8#





#48

Methyl methacrylate

Concen: 0.402 ug/l

RT: 9.694 min Scan# 11

Delta R.T. 0.018 min

Lab File: VN084485.D

Acq: 24 Oct 2024 13:58

Instrument :

MSVOA_N

ClientSampleId :

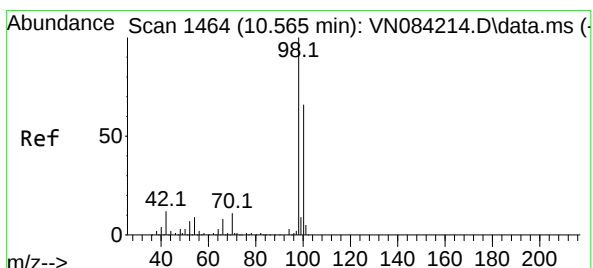
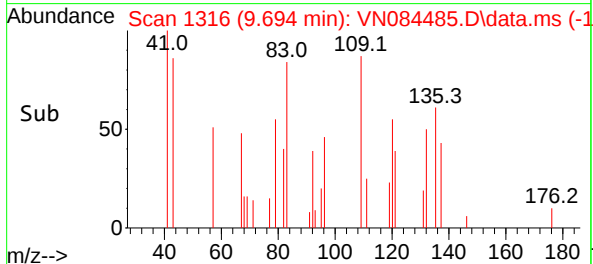
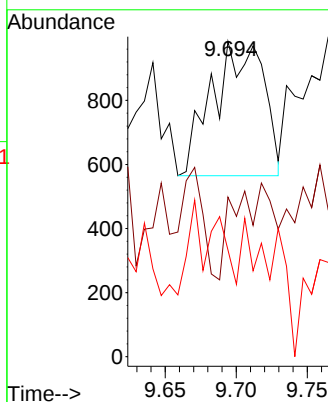
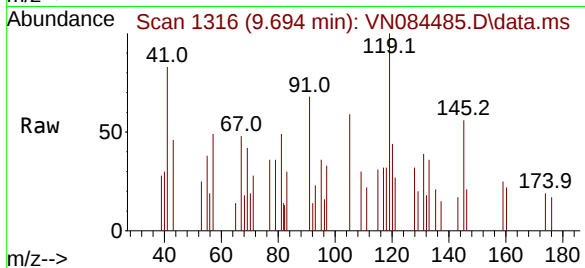
Tgt Ion: 41 Resp: 1045

Ion Ratio Lower Upper

41 100

69 30.5 67.1 100.7#

39 66.8 45.8 68.6



#50

Toluene-d8

Concen: 50.239 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN084485.D

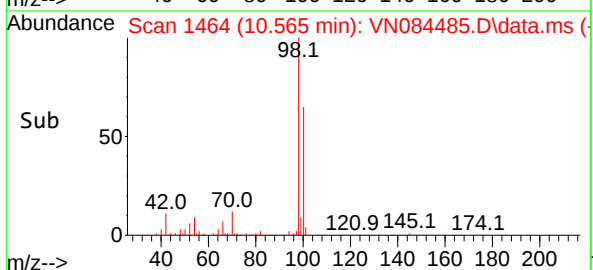
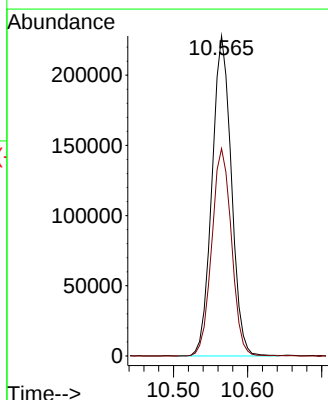
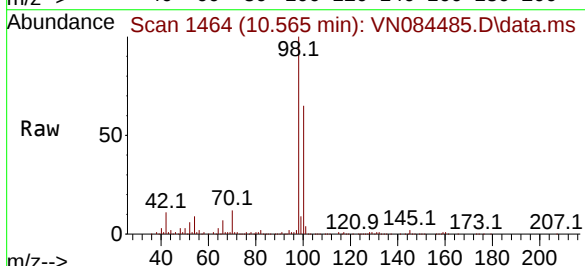
Acq: 24 Oct 2024 13:58

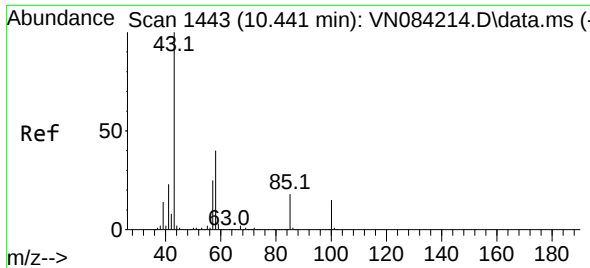
Tgt Ion: 98 Resp: 413938

Ion Ratio Lower Upper

98 100

100 65.7 52.7 79.1

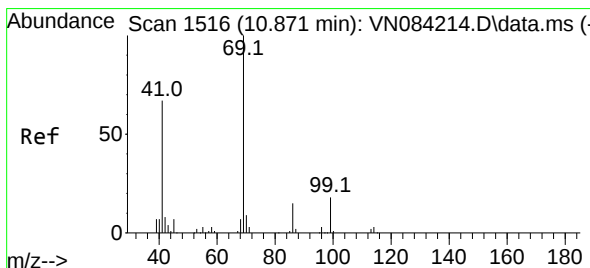
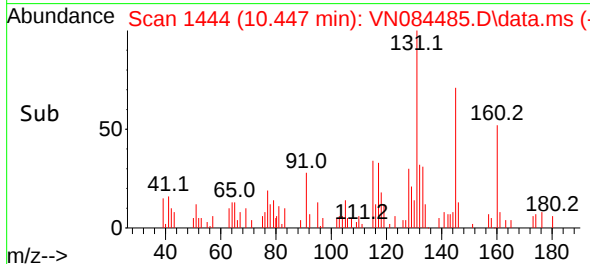
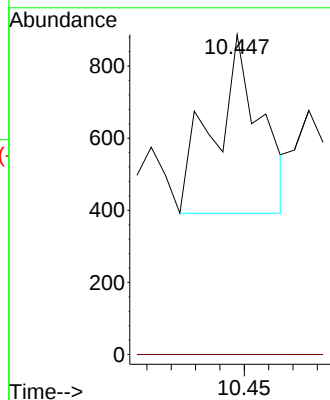
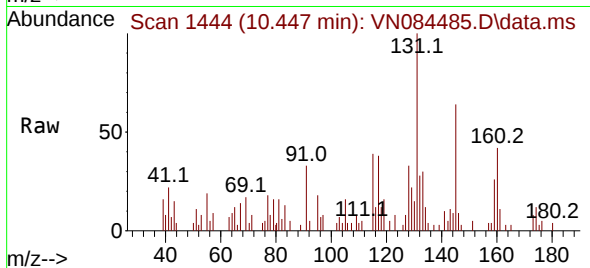




#51
4-Methyl-2-Pentanone
Concen: 0.206 ug/l
RT: 10.447 min Scan# 1443
Delta R.T. 0.006 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

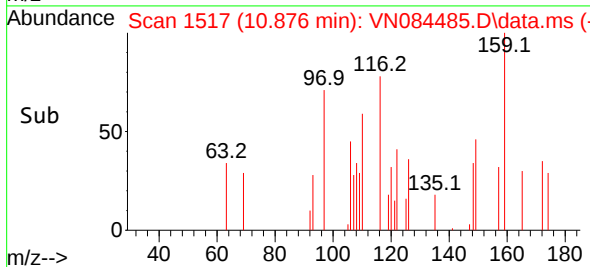
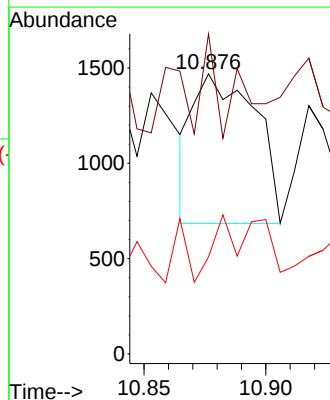
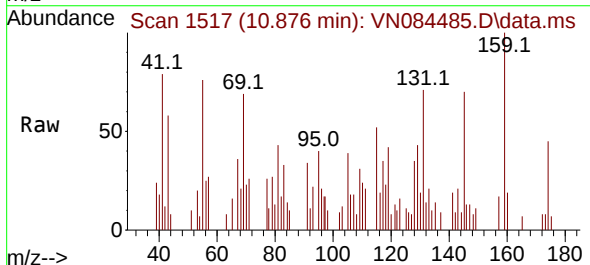
Instrument :
MSVOA_N
ClientSampleId :

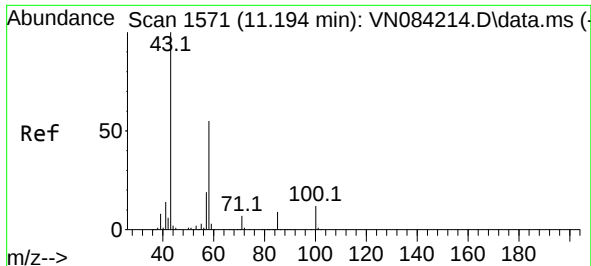
Tgt Ion: 43 Resp: 654
Ion Ratio Lower Upper
43 100
58 0.0 31.6 47.4#



#56
Ethyl methacrylate
Concen: 0.380 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. 0.006 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

Tgt Ion: 69 Resp: 1385
Ion Ratio Lower Upper
69 100
41 13.9 53.3 79.9#
39 15.9 28.8 43.2#

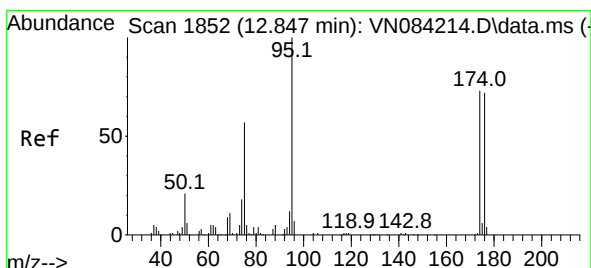
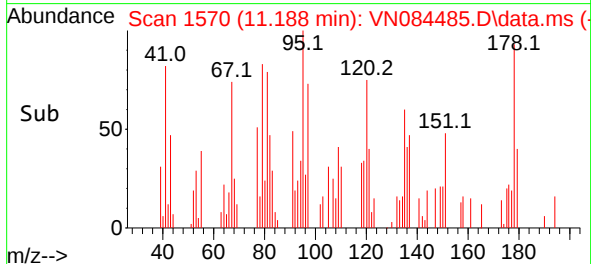
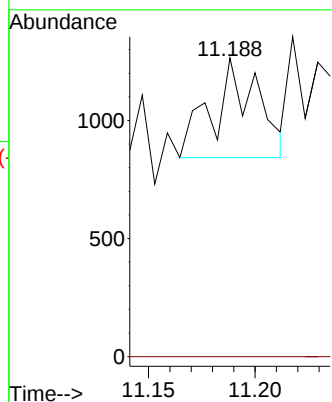
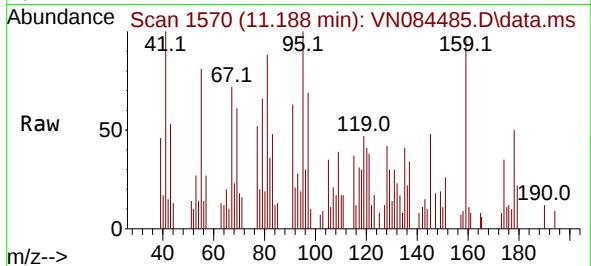




#59
2-Hexanone
Concen: 0.257 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. -0.006 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

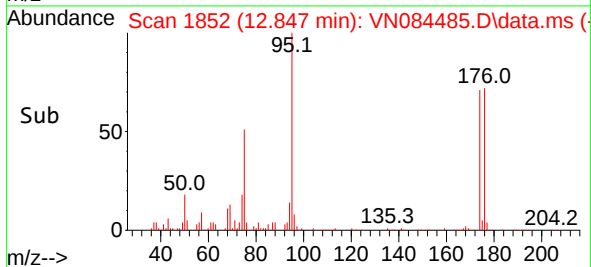
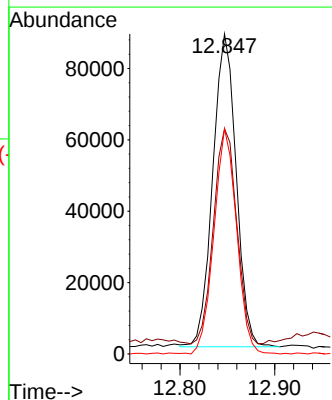
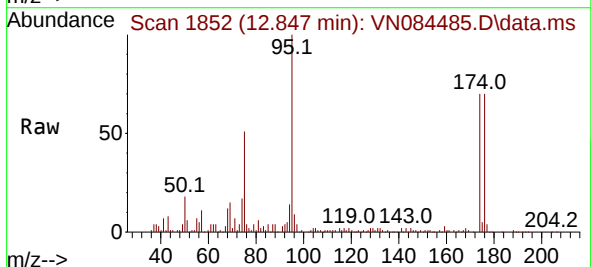
Instrument :
MSVOA_N
ClientSampleId :

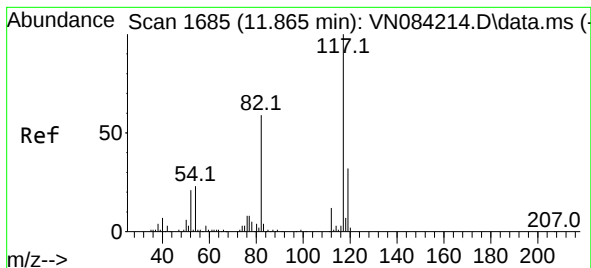
Tgt Ion: 43 Resp: 611
Ion Ratio Lower Upper
43 100
58 0.0 27.3 81.8#



#62
4-Bromofluorobenzene
Concen: 50.172 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

Tgt Ion: 95 Resp: 150602
Ion Ratio Lower Upper
95 100
174 68.3 0.0 145.2
176 69.8 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

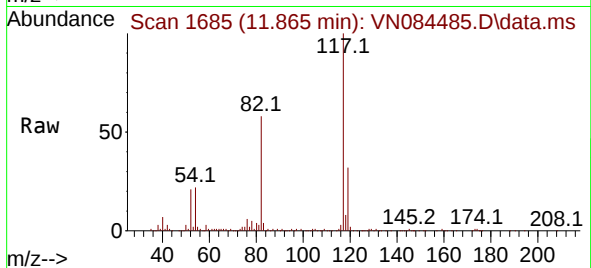
Lab File: VN084485.D

Acq: 24 Oct 2024 13:58

Instrument :

MSVOA_N

ClientSampleId :



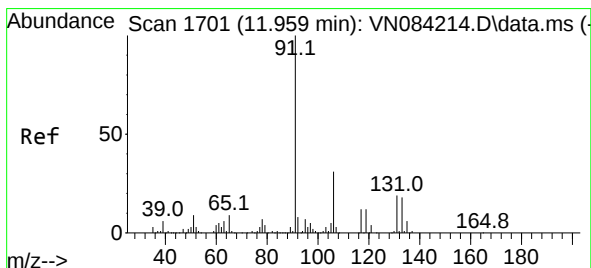
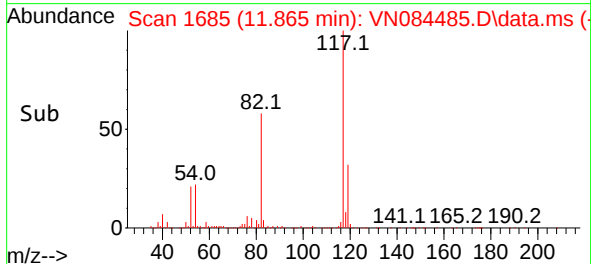
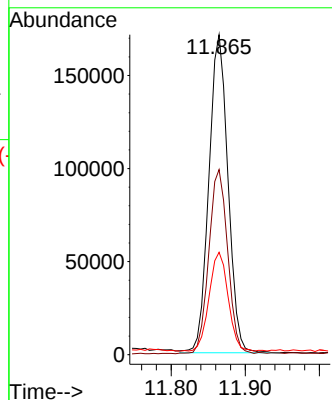
Tgt Ion:117 Resp: 305703

Ion Ratio Lower Upper

117 100

82 57.7 47.2 70.8

119 31.0 25.4 38.0



#66

1,1,1,2-Tetrachloroethane

Concen: 0.285 ug/l

RT: 11.941 min Scan# 1698

Delta R.T. -0.018 min

Lab File: VN084485.D

Acq: 24 Oct 2024 13:58

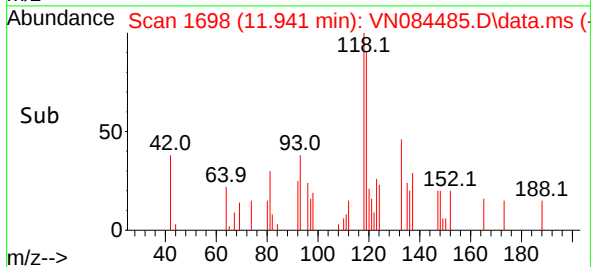
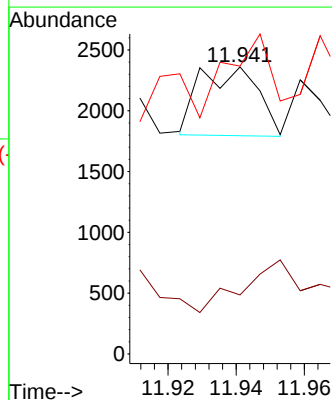
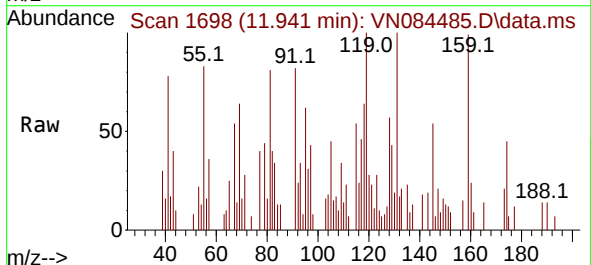
Tgt Ion:131 Resp: 665

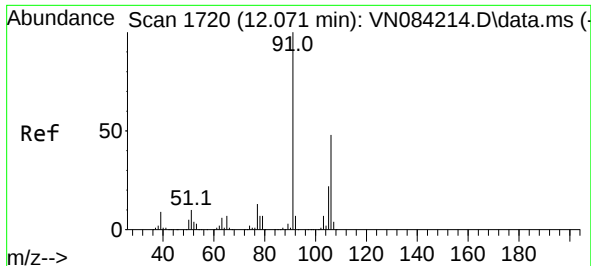
Ion Ratio Lower Upper

131 100

133 90.1 47.9 143.7

119 0.0 32.8 98.3#

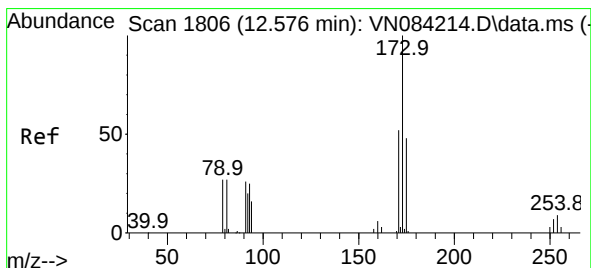
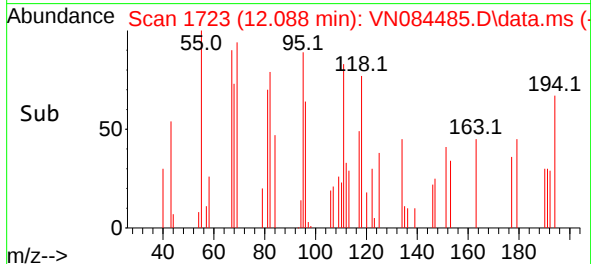
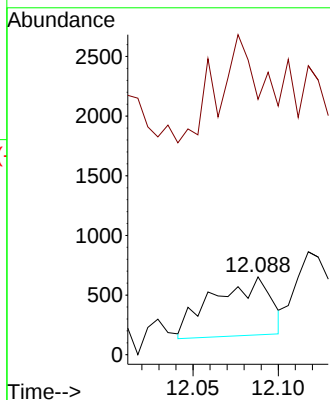
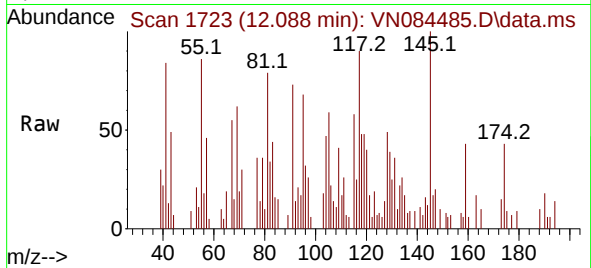




#68
m/p-Xylenes
Concen: 0.259 ug/l
RT: 12.088 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

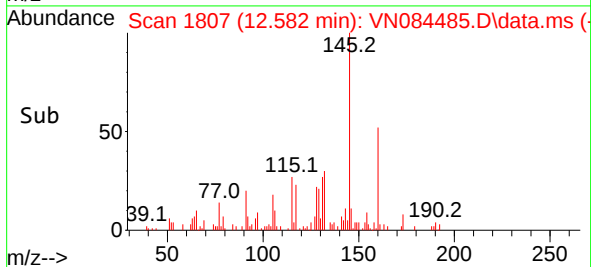
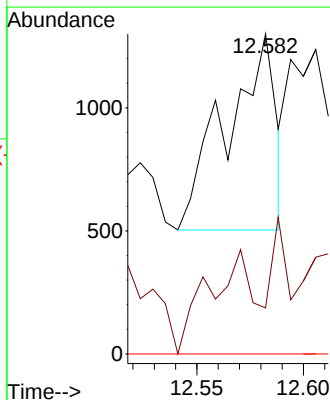
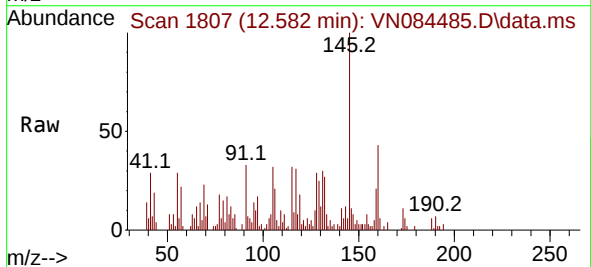
Instrument :
MSVOA_N
ClientSampleId :

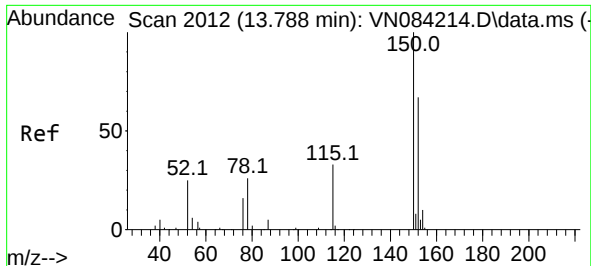
Tgt Ion:106 Resp: 1150
Ion Ratio Lower Upper
106 100
91 110.9 167.1 250.7#



#71
Bromoform
Concen: 0.743 ug/l
RT: 12.582 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

Tgt Ion:173 Resp: 1277
Ion Ratio Lower Upper
173 100
175 15.3 23.5 70.6#
254 0.0 0.0 0.0

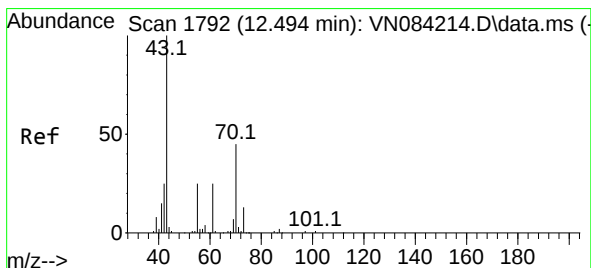
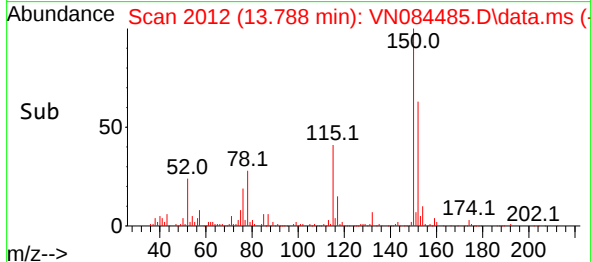
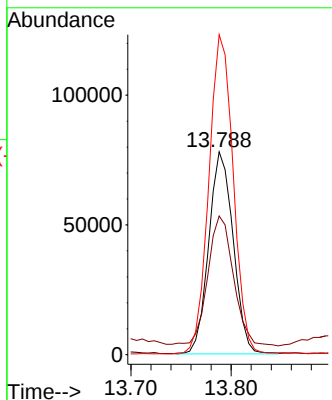
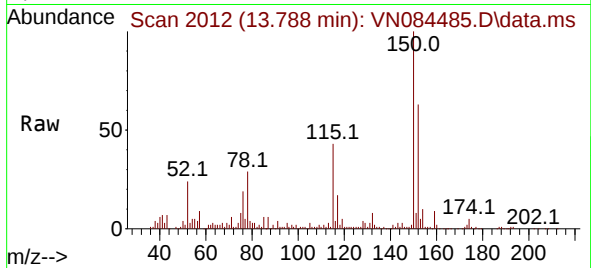




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

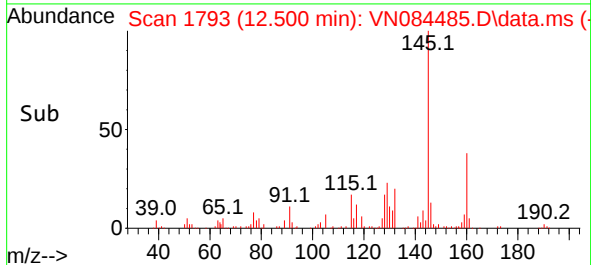
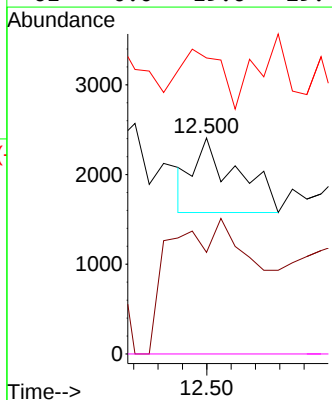
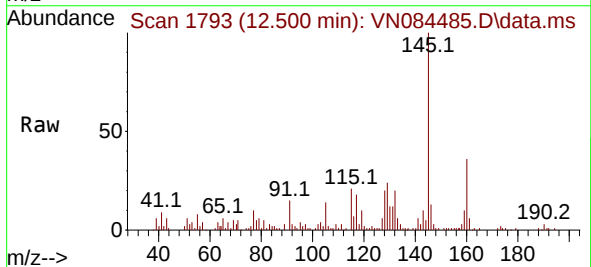
Instrument :
MSVOA_N
ClientSampleId :

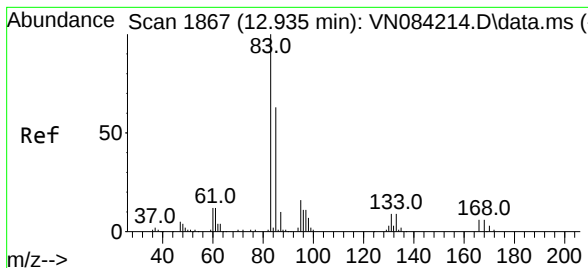
Tgt Ion:152 Resp: 131696
Ion Ratio Lower Upper
152 100
115 68.7 31.3 93.9
150 158.0 0.0 349.8



#74
N-ethyl acetate
Concen: 0.223 ug/l
RT: 12.500 min Scan# 1793
Delta R.T. 0.006 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

Tgt Ion: 43 Resp: 1016
Ion Ratio Lower Upper
43 100
70 175.6 34.4 51.6#
55 77.0 19.6 29.4#
61 0.0 19.6 29.4#

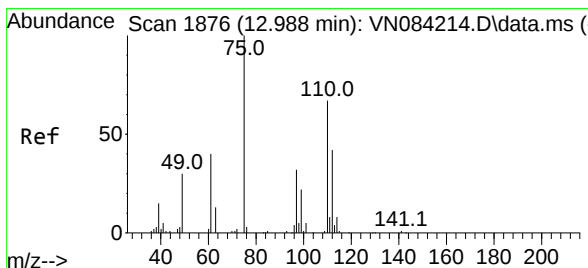
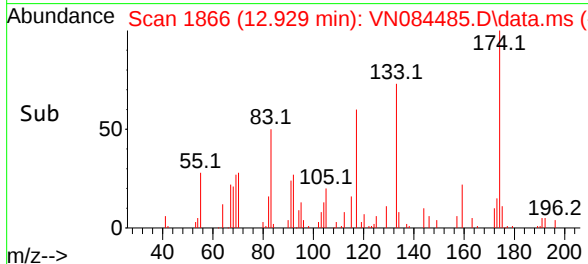
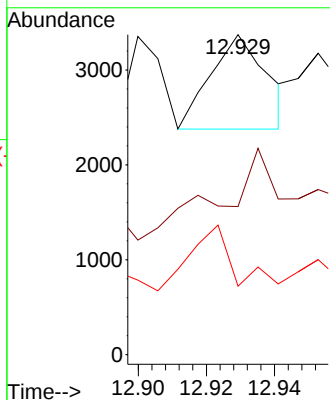
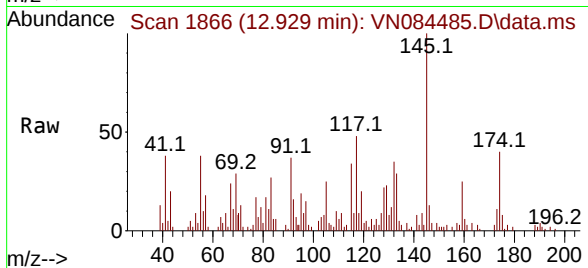




#75
1,1,2,2-Tetrachloroethane
Concen: 0.376 ug/l
RT: 12.929 min Scan# 1866
Delta R.T. -0.006 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

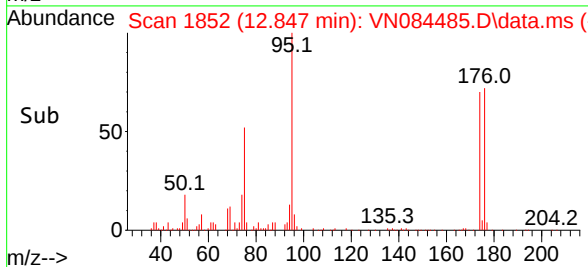
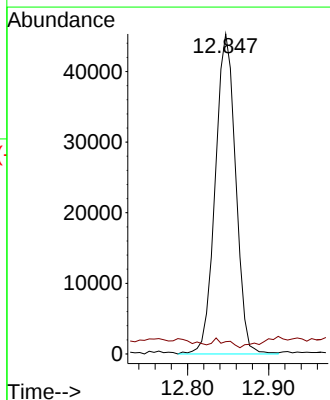
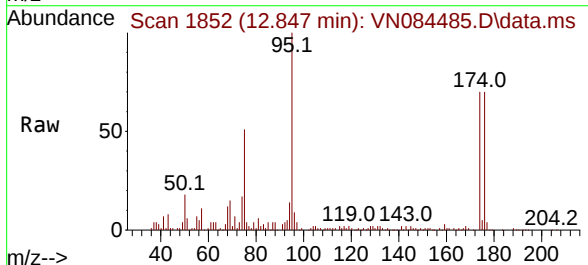
Instrument :
MSVOA_N
ClientSampleId :

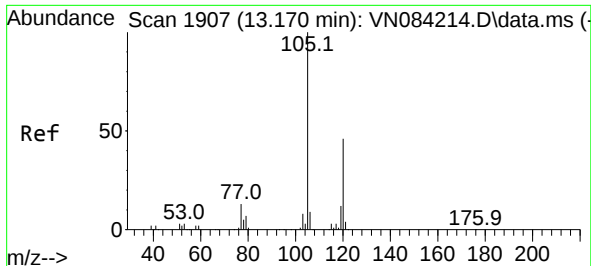
Tgt Ion: 83 Resp: 1136
Ion Ratio Lower Upper
83 100
131 108.4 4.9 14.7#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 29.523 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

Tgt Ion: 75 Resp: 79376
Ion Ratio Lower Upper
75 100
77 2.1 96.9 290.7#

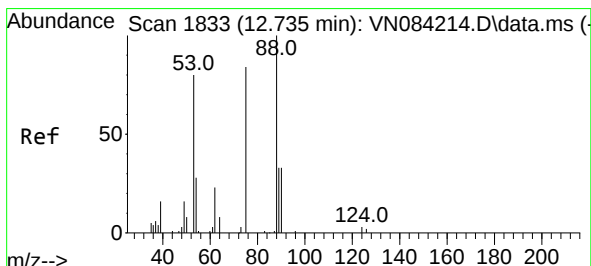
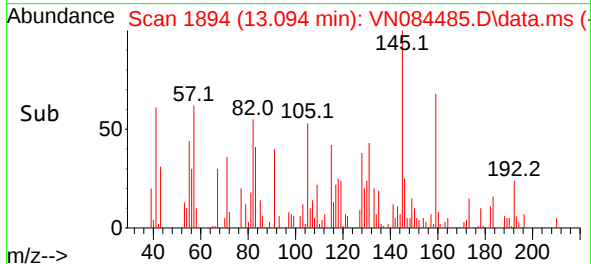
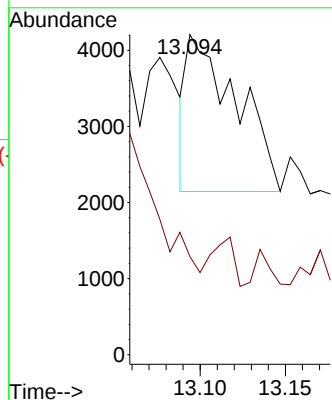
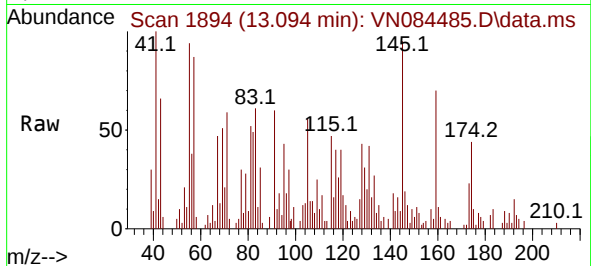




#80
1,3,5-Trimethylbenzene
Concen: 0.513 ug/l
RT: 13.094 min Scan# 1894
Delta R.T. -0.076 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

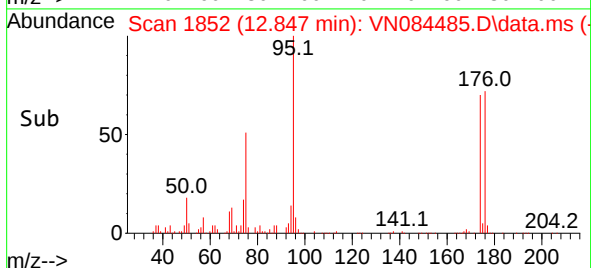
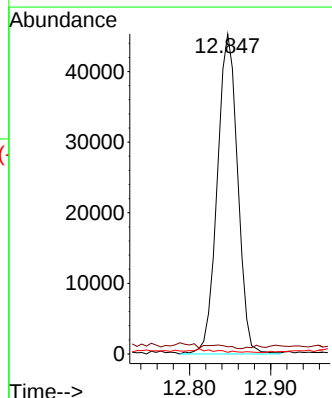
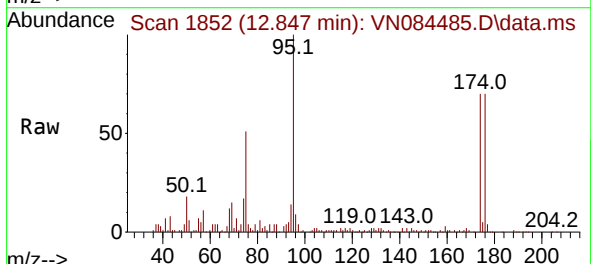
Instrument :
MSVOA_N
ClientSampleId :

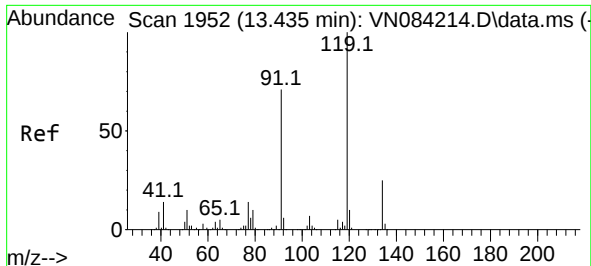
Tgt Ion:105 Resp: 4208
Ion Ratio Lower Upper
105 100
120 0.0 23.7 71.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 70.780 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

Tgt Ion: 75 Resp: 79376
Ion Ratio Lower Upper
75 100
53 1.3 78.0 117.0#
89 0.0 35.5 53.3#

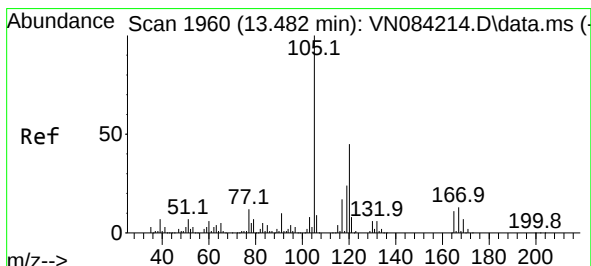
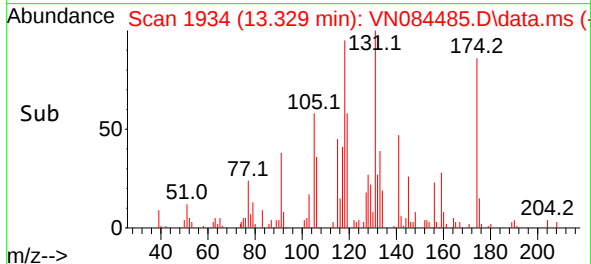
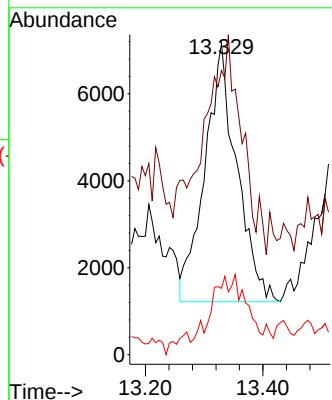
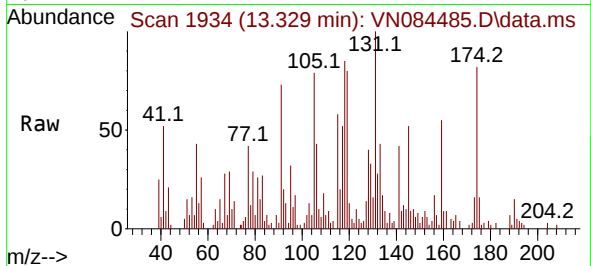




#83
 tert-Butylbenzene
 Concen: 3.073 ug/l
 RT: 13.329 min Scan# 1934
 Delta R.T. -0.106 min
 Lab File: VN084485.D
 Acq: 24 Oct 2024 13:58

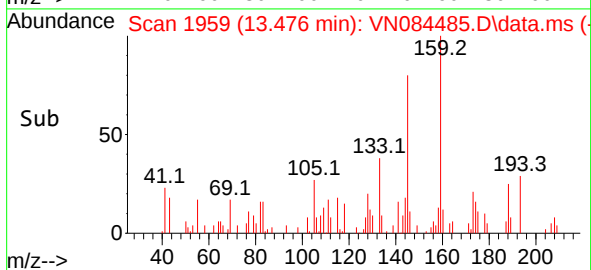
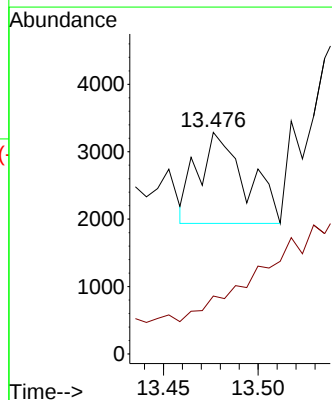
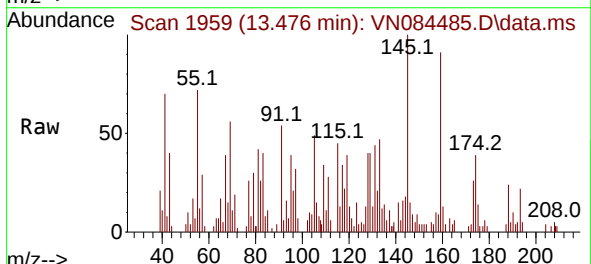
Instrument :
 MSVOA_N
 ClientSampleId :

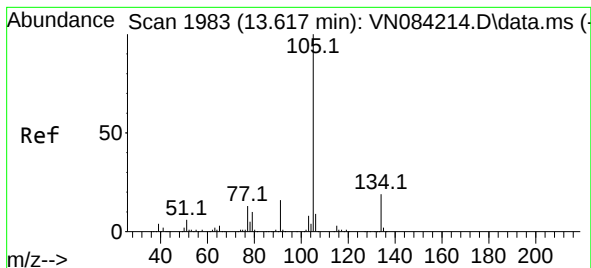
Tgt Ion:119 Resp: 22392
 Ion Ratio Lower Upper
 119 100
 91 71.4 34.1 102.3
 134 13.5 12.8 38.4



#84
 1,2,4-Trimethylbenzene
 Concen: 0.286 ug/l
 RT: 13.476 min Scan# 1959
 Delta R.T. -0.006 min
 Lab File: VN084485.D
 Acq: 24 Oct 2024 13:58

Tgt Ion:105 Resp: 2363
 Ion Ratio Lower Upper
 105 100
 120 0.0 22.3 66.8#





#85

sec-Butylbenzene

Concen: 0.243 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.141 min

Lab File: VN084485.D

Acq: 24 Oct 2024 13:58

Instrument :

MSVOA_N

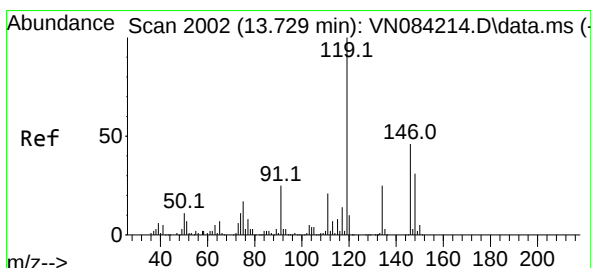
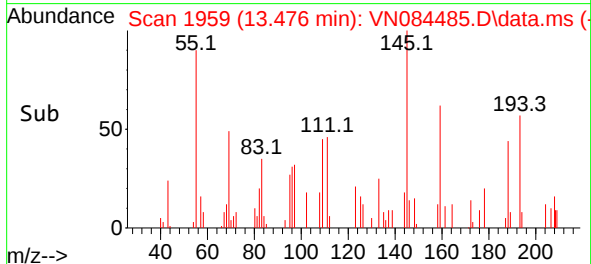
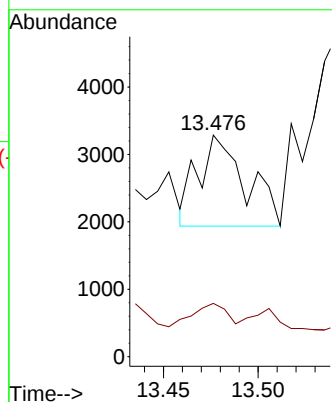
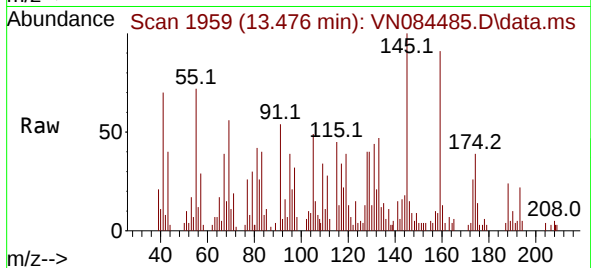
ClientSampleId :

Tgt Ion:105 Resp: 2363

Ion Ratio Lower Upper

105 100

134 18.4 9.8 29.4



#86

p-Isopropyltoluene

Concen: 0.334 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN084485.D

Acq: 24 Oct 2024 13:58

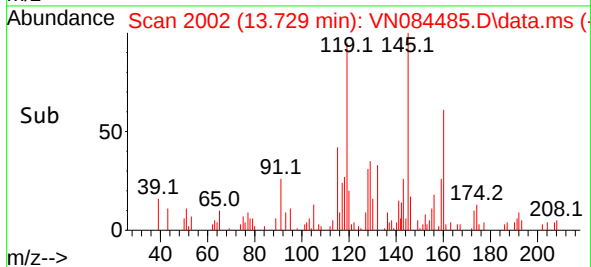
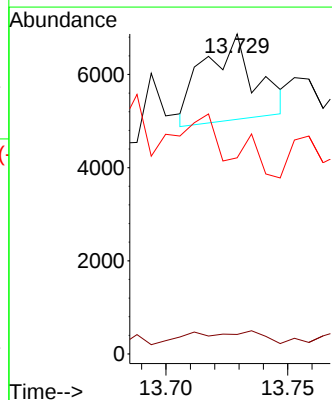
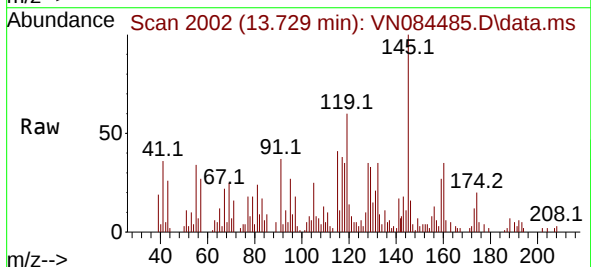
Tgt Ion:119 Resp: 2689

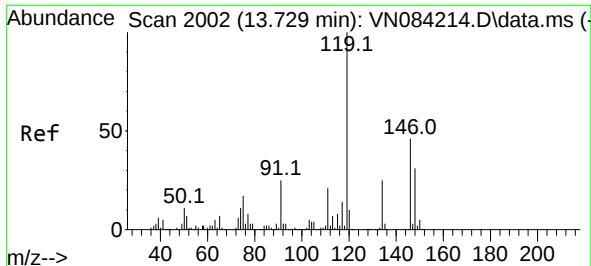
Ion Ratio Lower Upper

119 100

134 9.2 12.6 37.8#

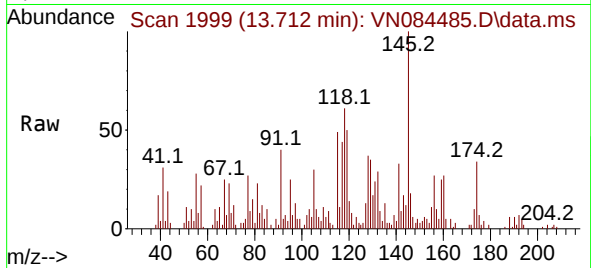
91 0.0 12.4 37.2#



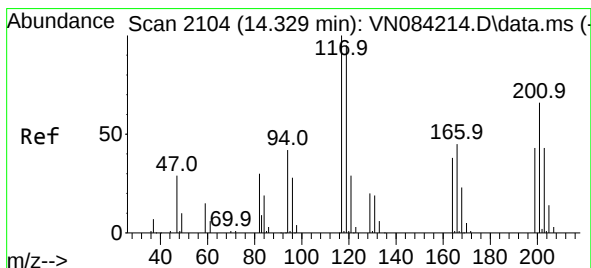
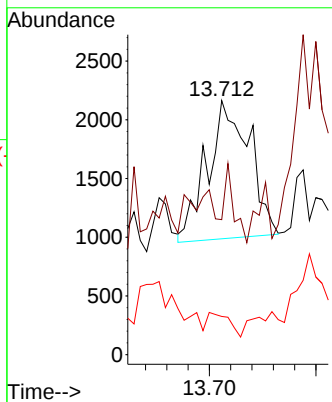
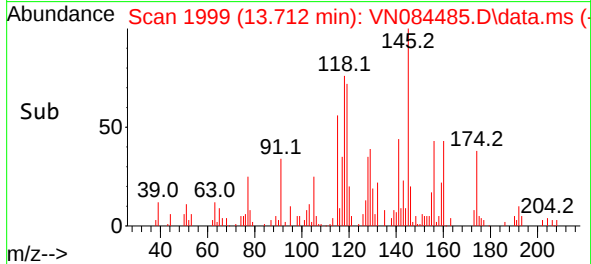


#87
1,3-Dichlorobenzene
Concen: 0.710 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. -0.018 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

Instrument :
MSVOA_N
ClientSampleId :

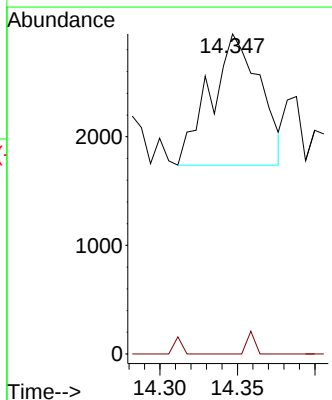
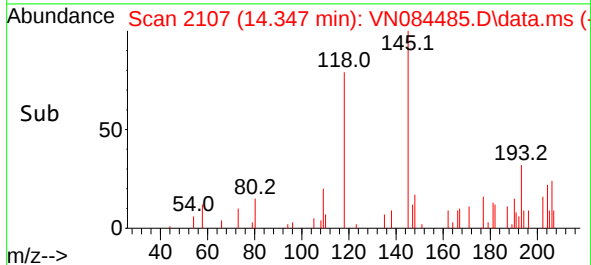
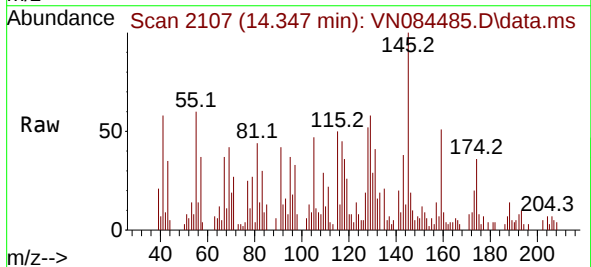


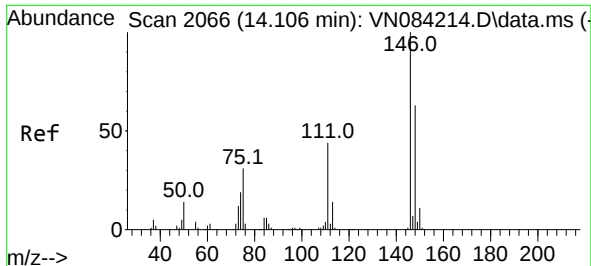
Tgt Ion:146 Resp: 3230
Ion Ratio Lower Upper
146 100
111 11.5 21.8 65.3#
148 18.8 31.9 95.7#



#90
Hexachloroethane
Concen: 1.645 ug/l
RT: 14.347 min Scan# 2107
Delta R.T. 0.018 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

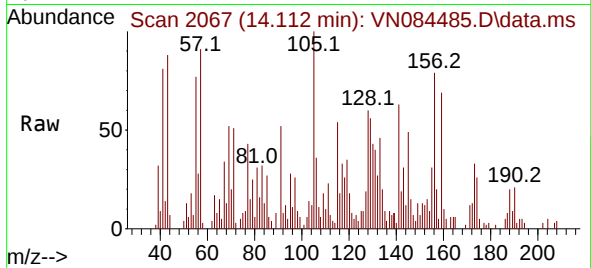
Tgt Ion:117 Resp: 2685
Ion Ratio Lower Upper
117 100
201 2.8 34.4 103.2#



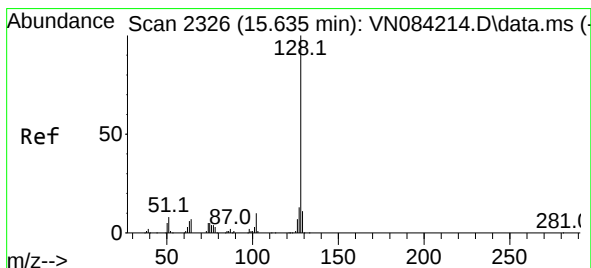
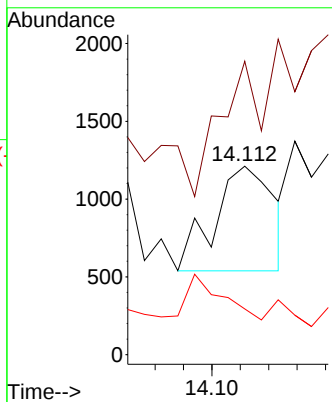
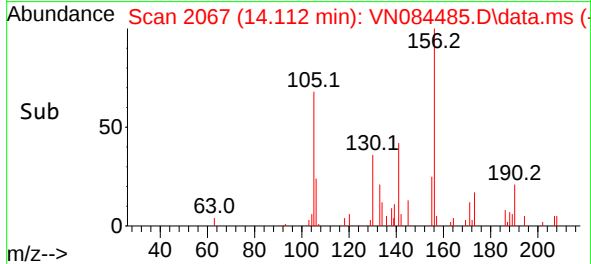


#91
1,2-Dichlorobenzene
Concen: 0.219 ug/l
RT: 14.112 min Scan# 2067
Delta R.T. 0.006 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

Instrument :
MSVOA_N
ClientSampleId :

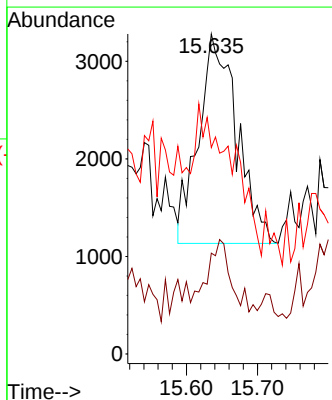
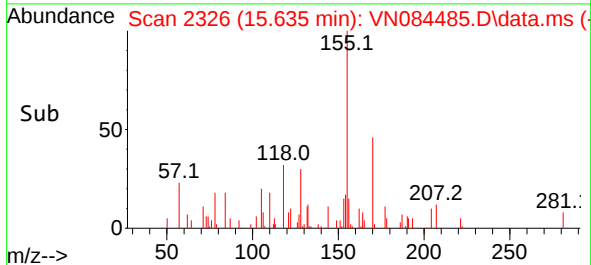
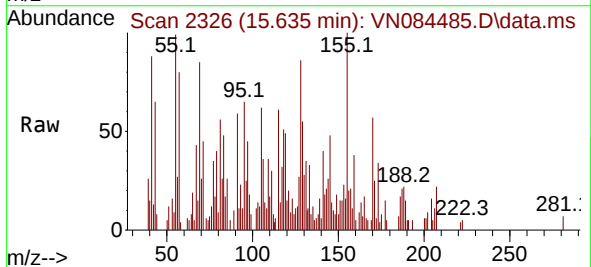


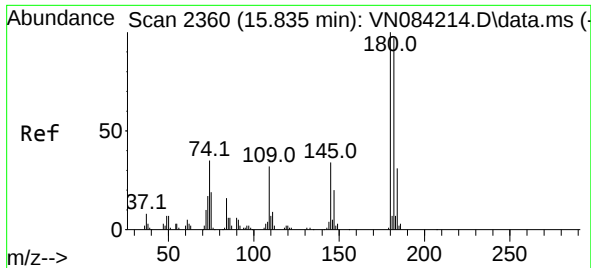
Tgt Ion:146 Resp: 976
Ion Ratio Lower Upper
146 100
111 84.0 22.0 66.0#
148 35.0 32.1 96.3



#95
Naphthalene
Concen: 1.103 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN084485.D
Acq: 24 Oct 2024 13:58

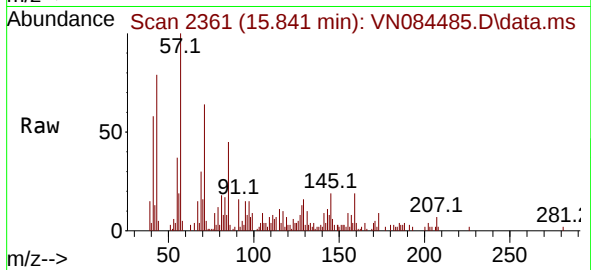
Tgt Ion:128 Resp: 8029
Ion Ratio Lower Upper
128 100
127 15.3 10.5 15.7
129 0.0 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.358 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN084485.D
 Acq: 24 Oct 2024 13:58

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
180	100		
182	106.1	48.2	144.6
145	0.0	17.3	51.9#

