

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100324\
 Data File : VN084300.D
 Acq On : 03 Oct 2024 15:51
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Oct 04 01:37:31 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)

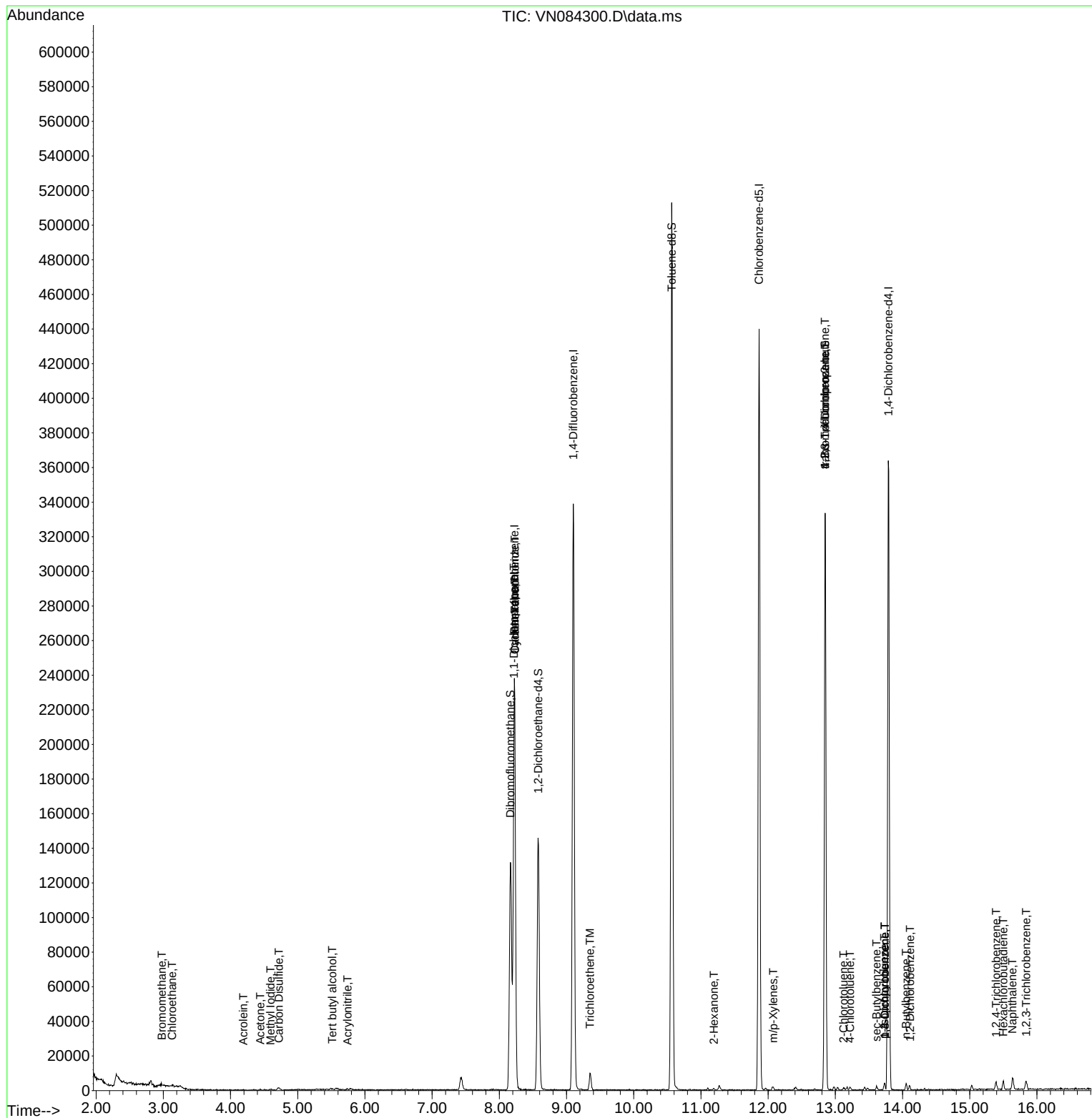
Internal Standards						
1) Pentafluorobenzene	8.224	168	166820	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	287226	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	245869	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	98316	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	123081	49.762	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.520%		
35) Dibromofluoromethane	8.165	113	96180	50.793	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	101.580%		
50) Toluene-d8	10.565	98	351408	50.441	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.880%		
62) 4-Bromofluorobenzene	12.847	95	115448	45.487	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	90.980%		
Target Compounds					Qvalue	
5) Bromomethane	2.977	94	503	0.349	ug/l #	78
6) Chloroethane	3.130	64	537	0.344	ug/l #	45
10) Methyl Iodide	4.595	142	705	0.281	ug/l #	40
11) Tert butyl alcohol	5.512	59	83	0.204	ug/l #	73
13) Acrolein	4.189	56	237	0.506	ug/l #	14
15) Acrylonitrile	5.742	53	438	0.425	ug/l #	71
16) Acetone	4.442	43	259	0.244	ug/l #	44
17) Carbon Disulfide	4.718	76	3448	0.580	ug/l #	75
31) Cyclohexane	8.230	56	4364	1.191	ug/l #	52
36) 1,1-Dichloropropene	8.218	75	14922	5.425	ug/l #	51
38) Carbon Tetrachloride	8.230	117	18479	6.125	ug/l #	16
44) Trichloroethene	9.347	130	3831	1.914	ug/l	98
59) 2-Hexanone	11.194	43	778	0.388	ug/l	99
68) m/p-Xylenes	12.076	106	724	0.203	ug/l #	63
76) 1,2,3-Trichloropropane	12.847	75	62123	30.951	ug/l #	1
79) 2-Chlorotoluene	13.123	91	1167	0.210	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.847	75	62123	74.203	ug/l #	11
82) 4-Chlorotoluene	13.218	91	1666	0.298	ug/l	90
85) sec-Butylbenzene	13.612	105	1987	0.274	ug/l	99
86) p-Isopropyltoluene	13.729	119	1340	0.223	ug/l	83
87) 1,3-Dichlorobenzene	13.735	146	1425	0.420	ug/l	89
88) 1,4-Dichlorobenzene	13.735	146	1425	0.416	ug/l	90
89) n-Butylbenzene	14.053	91	2556	0.470	ug/l	92
91) 1,2-Dichlorobenzene	14.112	146	1429	0.429	ug/l	78
93) 1,2,4-Trichlorobenzene	15.394	180	2093	1.276	ug/l	80
94) Hexachlorobutadiene	15.500	225	1394	1.705	ug/l	76
95) Naphthalene	15.635	128	6611	1.216	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	2185	1.331	ug/l	95

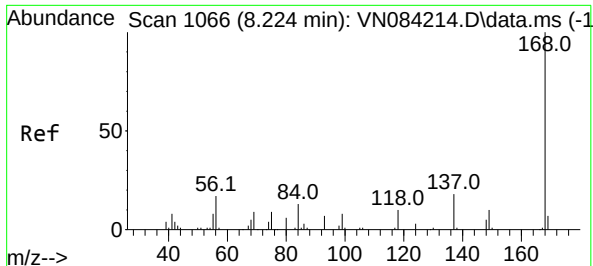
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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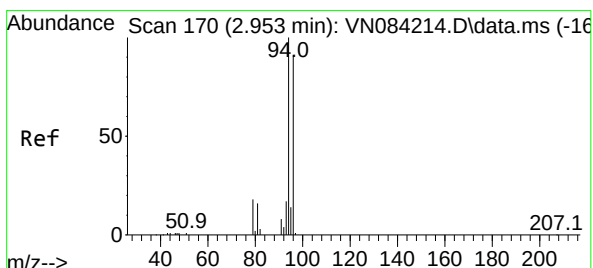
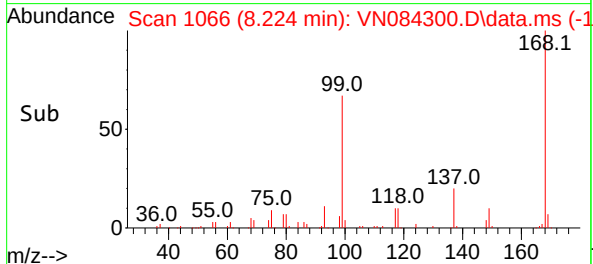
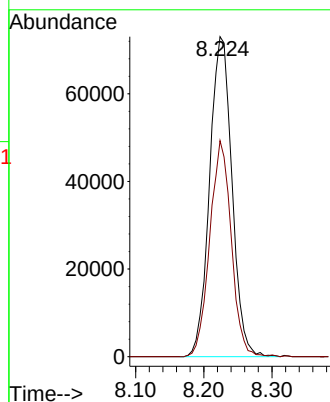
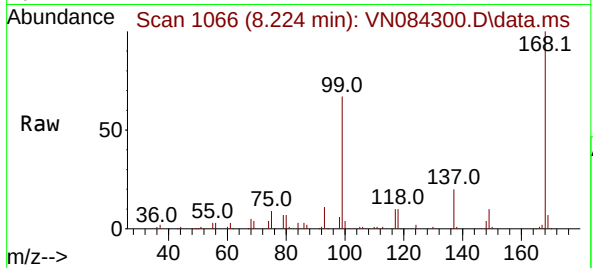




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

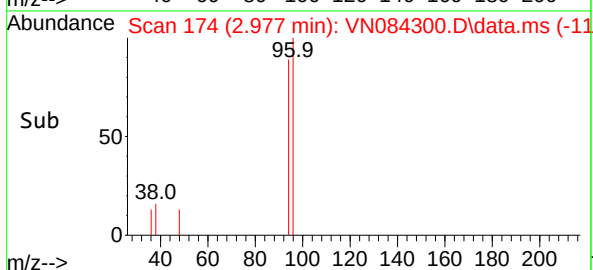
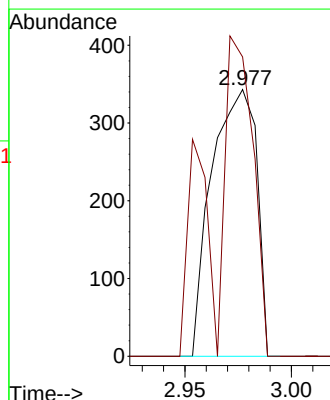
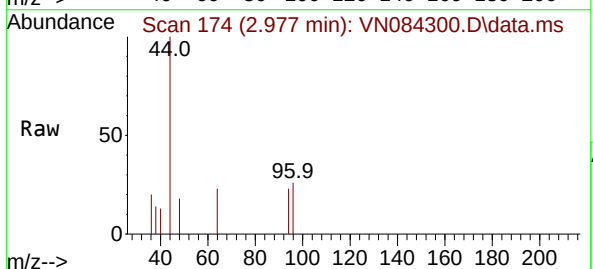
Instrument :
MSVOA_N
ClientSampleId :
IBLK

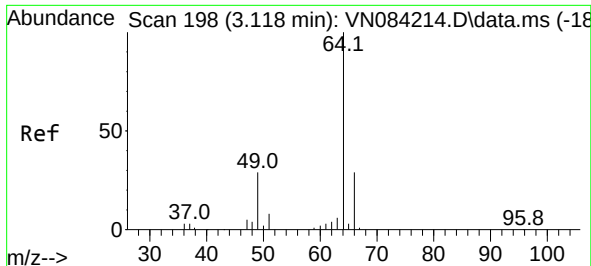
Tgt Ion:168 Resp: 166820
Ion Ratio Lower Upper
168 100
99 67.5 54.2 81.2



#5
Bromomethane
Concen: 0.349 ug/l
RT: 2.977 min Scan# 174
Delta R.T. 0.024 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

Tgt Ion: 94 Resp: 503
Ion Ratio Lower Upper
94 100
96 112.2 72.9 109.3#

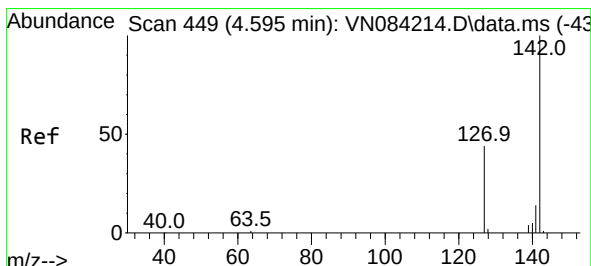
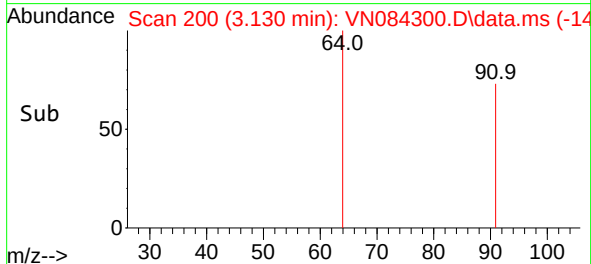
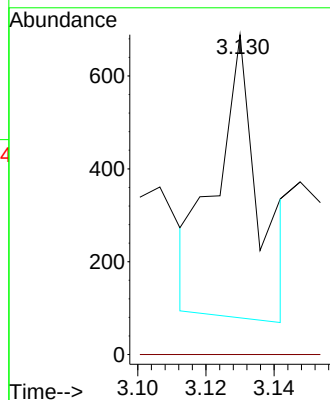
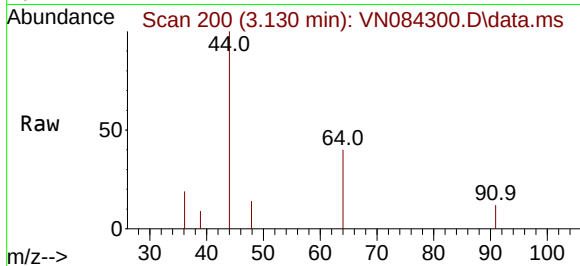




#6
Chloroethane
Concen: 0.344 ug/l
RT: 3.130 min Scan# 200
Delta R.T. 0.012 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

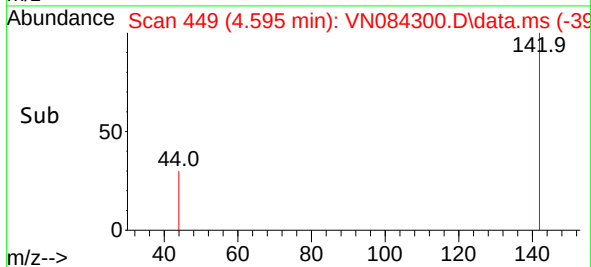
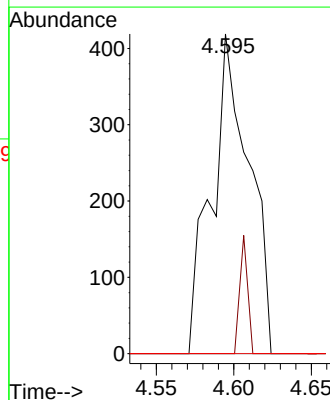
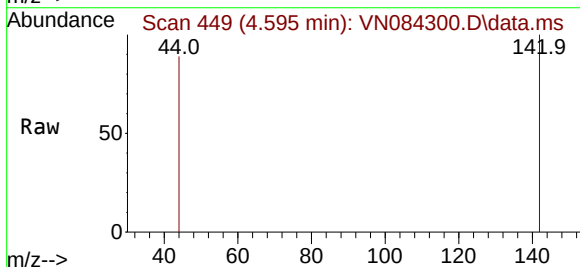
Instrument :
MSVOA_N
ClientSampleId :
IBLK

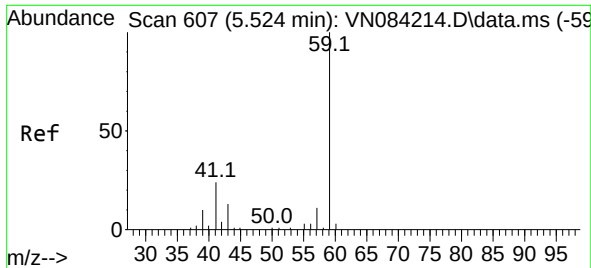
Tgt Ion: 64 Resp: 537
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#



#10
Methyl Iodide
Concen: 0.281 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.000 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

Tgt Ion: 142 Resp: 705
Ion Ratio Lower Upper
142 100
127 0.0 35.3 52.9#
141 0.0 11.0 16.6#

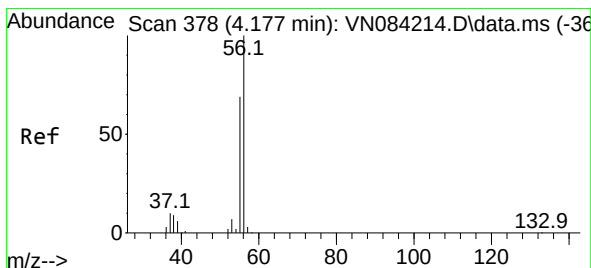
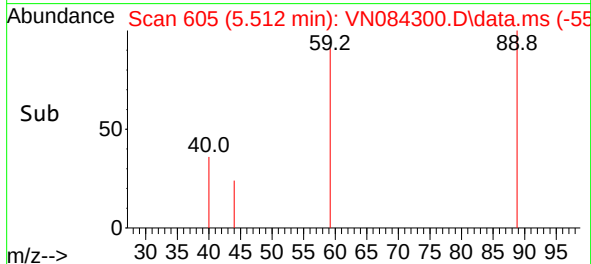
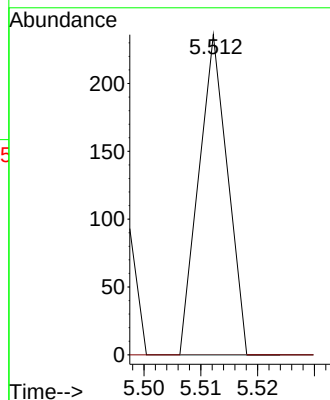
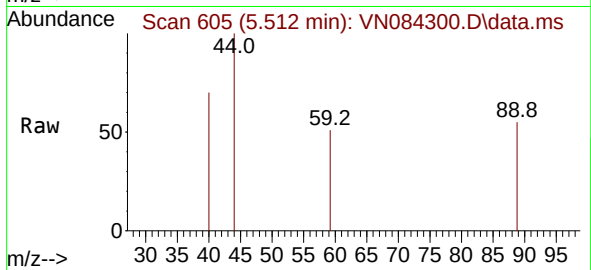




#11
Tert butyl alcohol
Concen: 0.204 ug/l
RT: 5.512 min Scan# 607
Delta R.T. -0.012 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

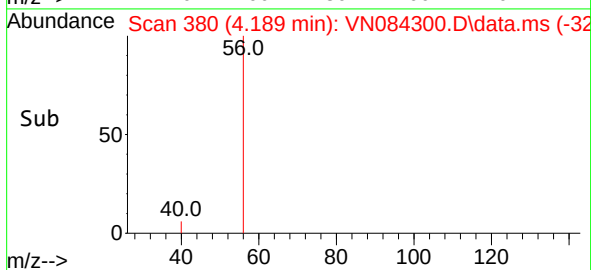
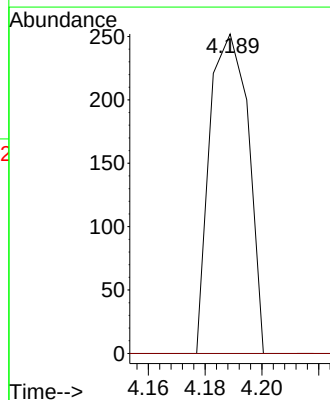
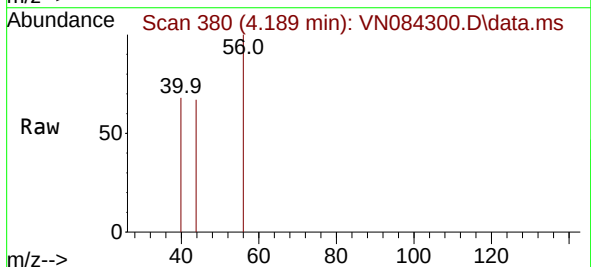
Instrument :
MSVOA_N
ClientSampleId :
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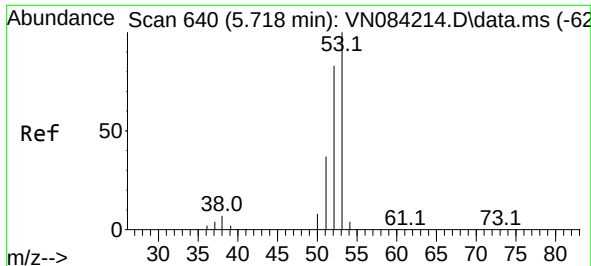
Tgt Ion: 59 Resp: 83
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 0.506 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.012 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

Tgt Ion: 56 Resp: 237
Ion Ratio Lower Upper
56 100
55 0.0 57.2 85.8#

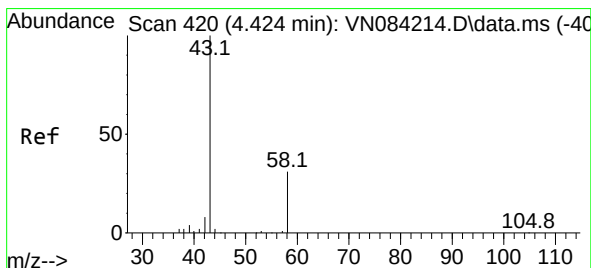
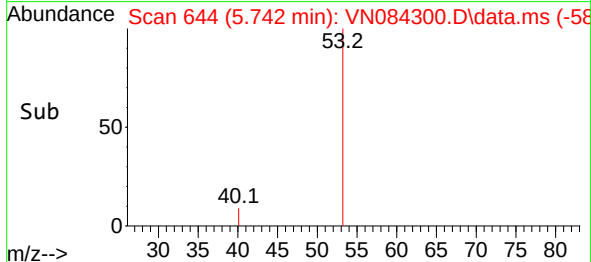
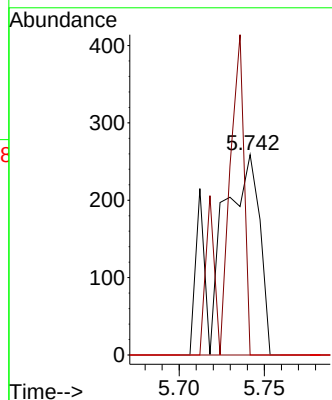
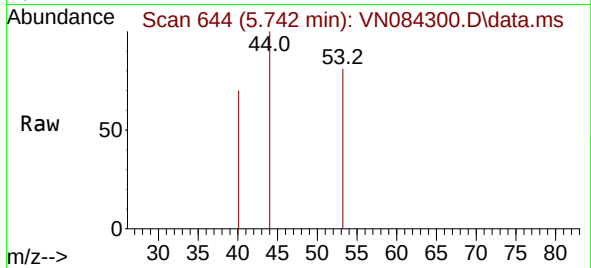




#15
Acrylonitrile
Concen: 0.425 ug/l
RT: 5.742 min Scan# 644
Delta R.T. 0.024 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

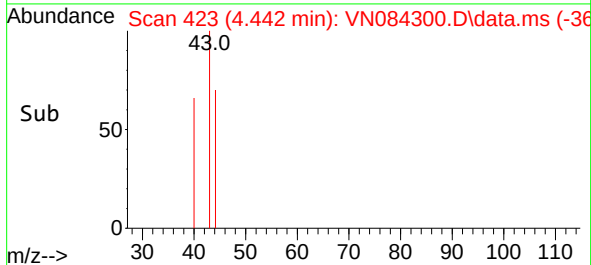
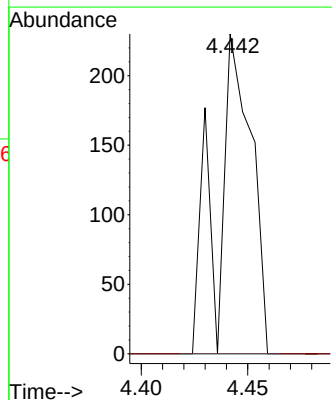
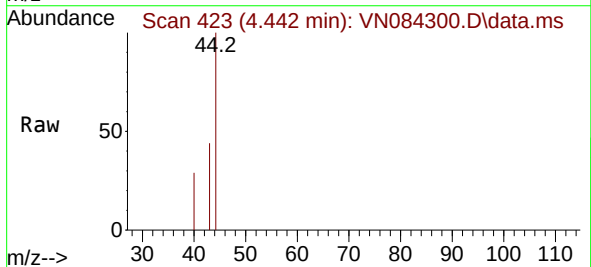
Instrument :
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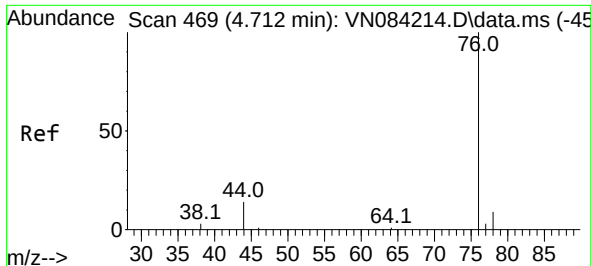
Tgt Ion: 53 Resp: 438
Ion Ratio Lower Upper
53 100
52 69.6 66.2 99.4
51 0.0 28.8 43.2#



#16
Acetone
Concen: 0.244 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.018 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

Tgt Ion: 43 Resp: 259
Ion Ratio Lower Upper
43 100
58 0.0 24.4 36.6#

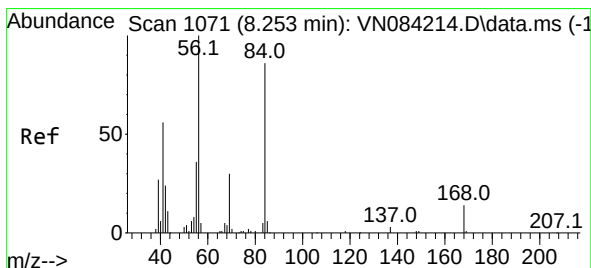
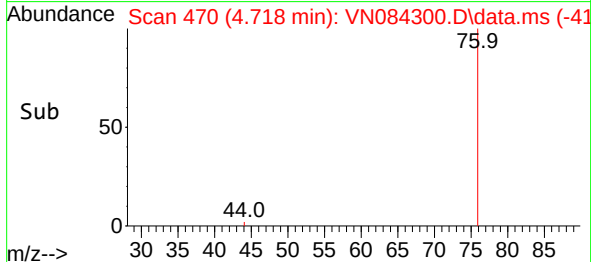
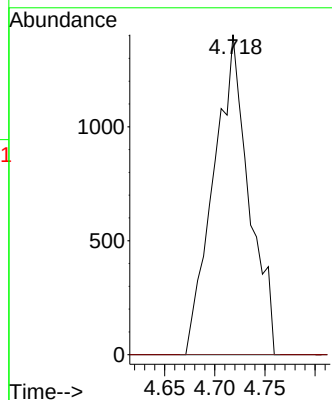
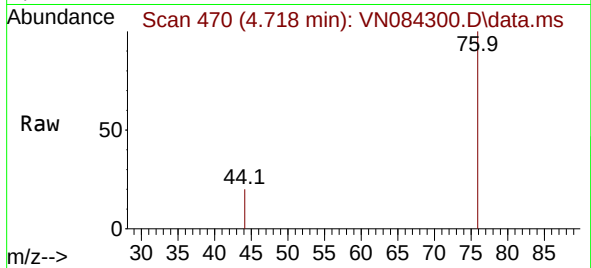




#17
Carbon Disulfide
Concen: 0.580 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

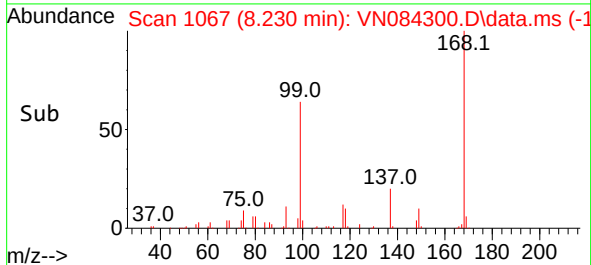
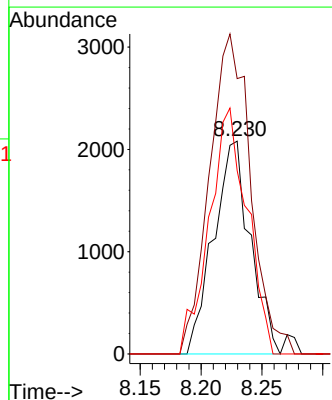
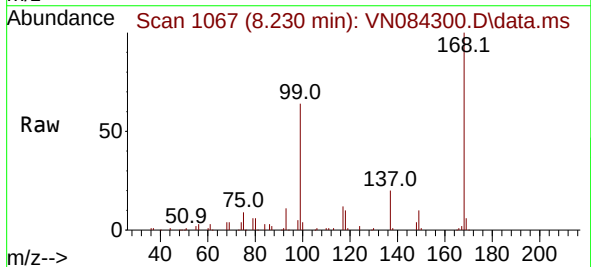
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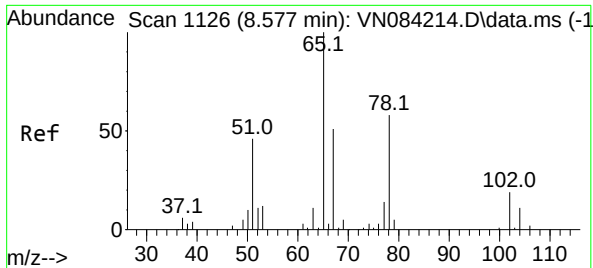
Tgt Ion: 76 Resp: 3448
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#31
Cyclohexane
Concen: 1.191 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.023 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

Tgt Ion: 56 Resp: 4364
Ion Ratio Lower Upper
56 100
69 129.4 23.8 35.6#
84 86.2 68.8 103.2

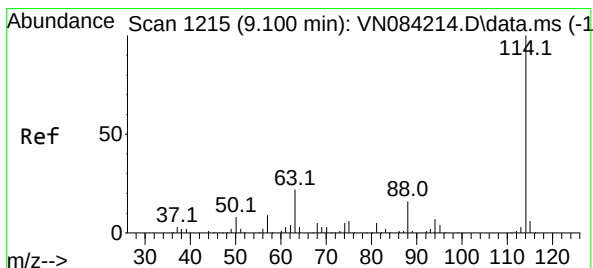
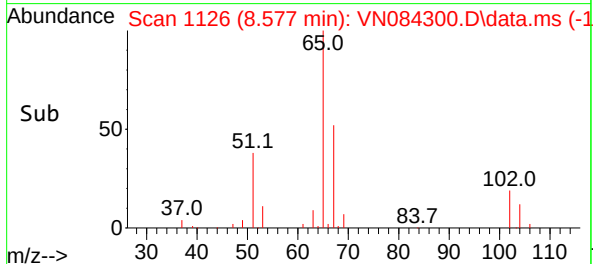
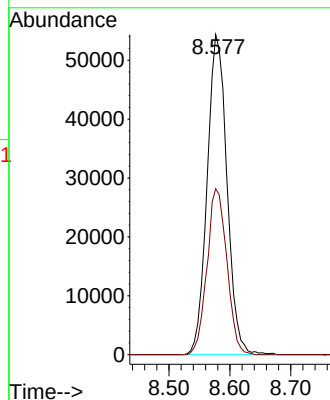
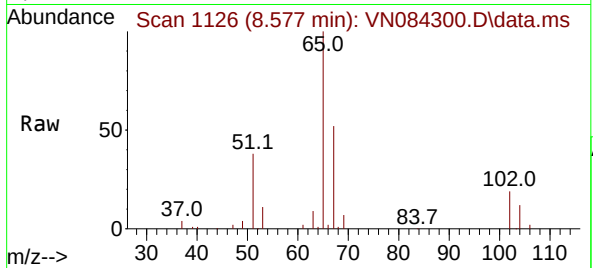




#33
1,2-Dichloroethane-d4
Concen: 49.762 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

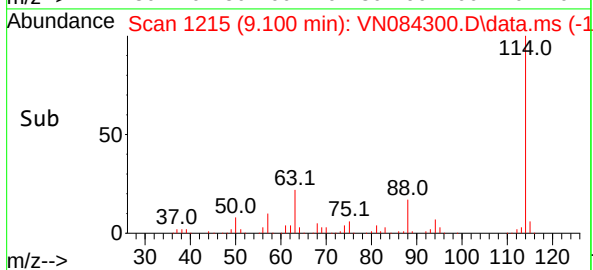
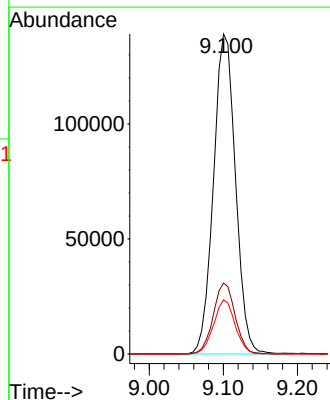
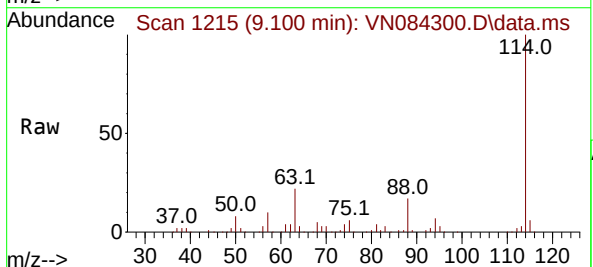
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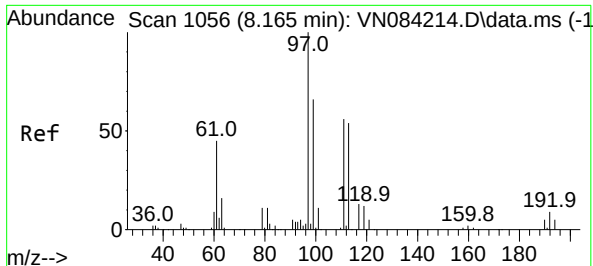
Tgt Ion: 65 Resp: 123081
Ion Ratio Lower Upper
65 100
67 51.9 0.0 102.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

Tgt Ion: 114 Resp: 287226
Ion Ratio Lower Upper
114 100
63 22.2 0.0 43.8
88 16.9 0.0 31.6

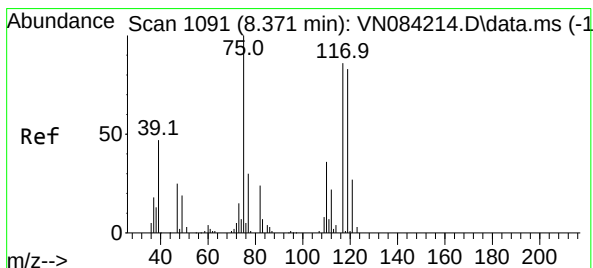
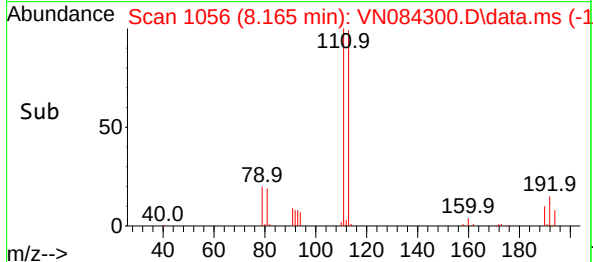
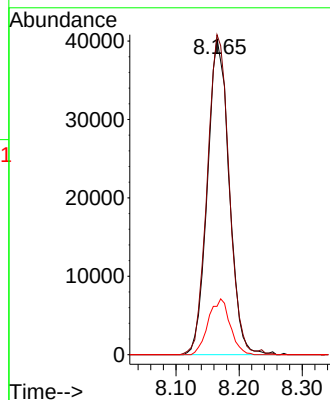
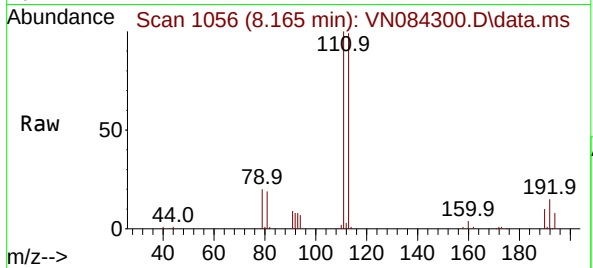




#35
Dibromofluoromethane
Concen: 50.793 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

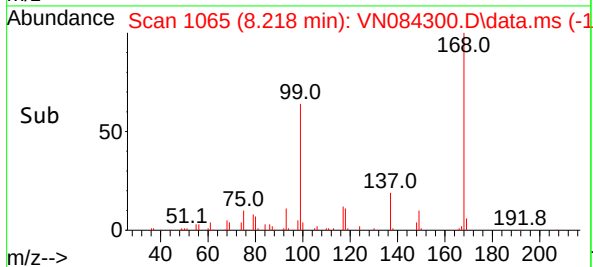
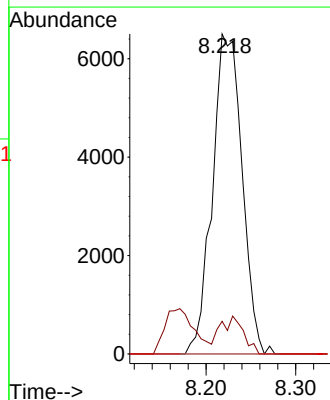
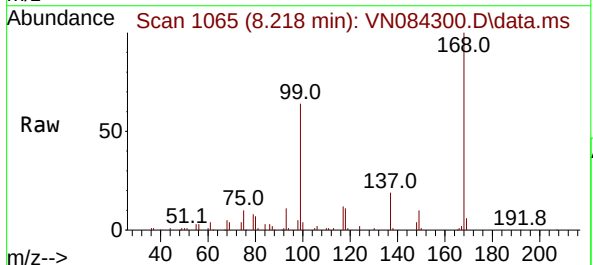
Instrument :
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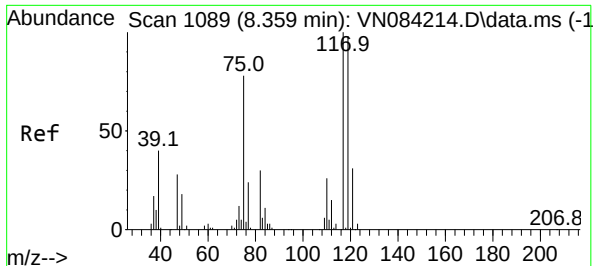
Tgt Ion:113 Resp: 96180
Ion Ratio Lower Upper
113 100
111 102.4 83.3 124.9
192 17.7 13.5 20.3



#36
1,1-Dichloropropene
Concen: 5.425 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.153 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

Tgt Ion: 75 Resp: 14922
Ion Ratio Lower Upper
75 100
110 9.2 16.9 50.7#
77 0.0 24.7 37.1#

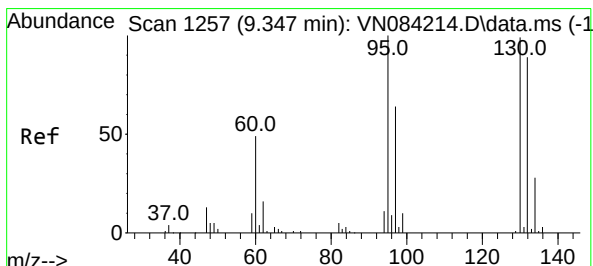
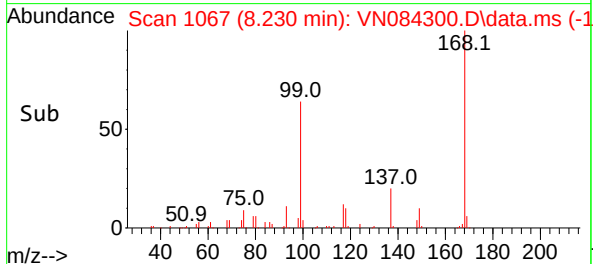
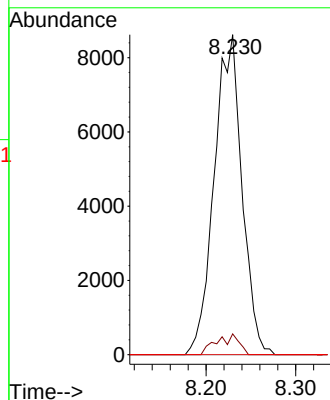
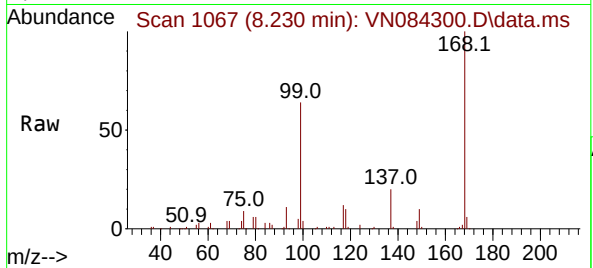




#38
Carbon Tetrachloride
Concen: 6.125 ug/l
RT: 8.230 min Scan# 117
Delta R.T. -0.129 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

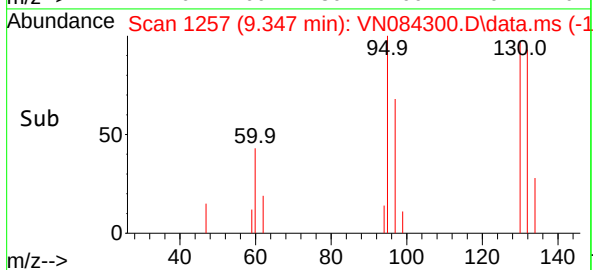
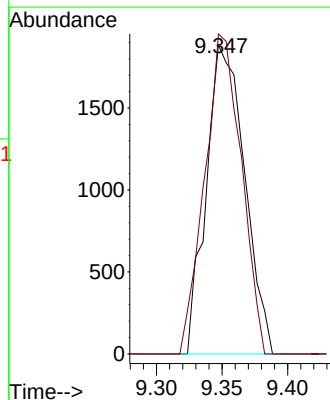
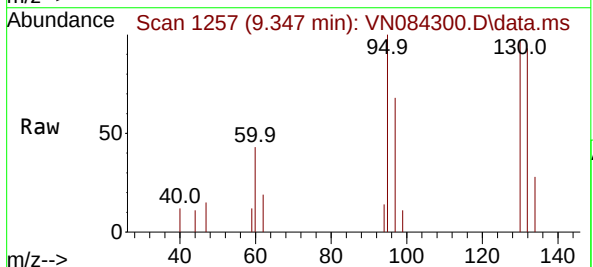
Instrument :
MSVOA_N
ClientSampleId :
IBLK

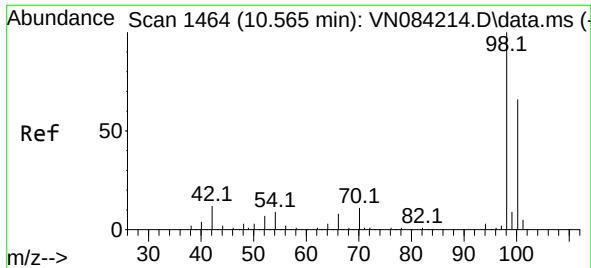
Tgt Ion:117 Resp: 18479
Ion Ratio Lower Upper
117 100
119 6.5 78.7 118.1#
121 0.0 24.4 36.6#



#44
Trichloroethene
Concen: 1.914 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

Tgt Ion:130 Resp: 3831
Ion Ratio Lower Upper
130 100
95 103.6 0.0 203.0

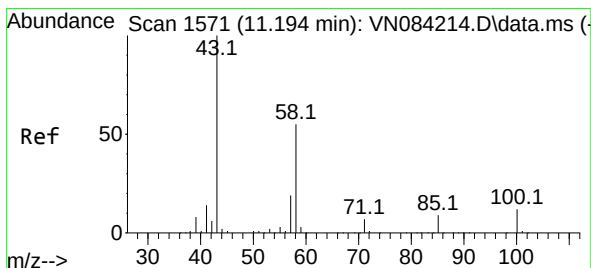
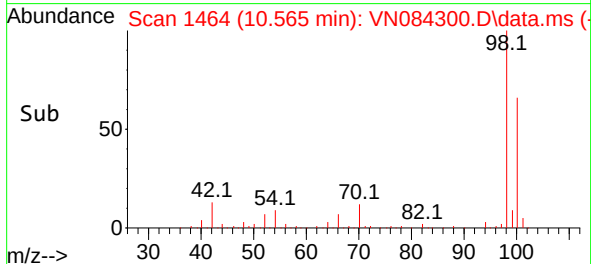
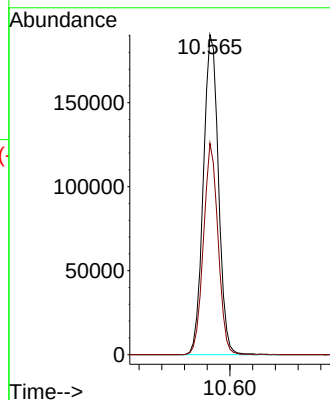
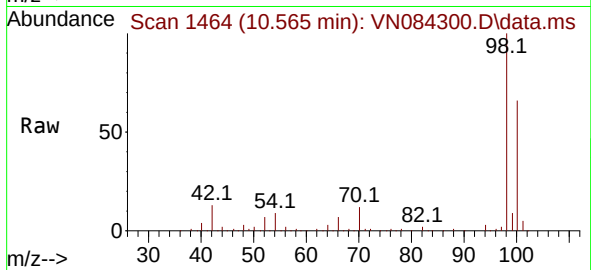




#50
Toluene-d8
Concen: 50.441 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

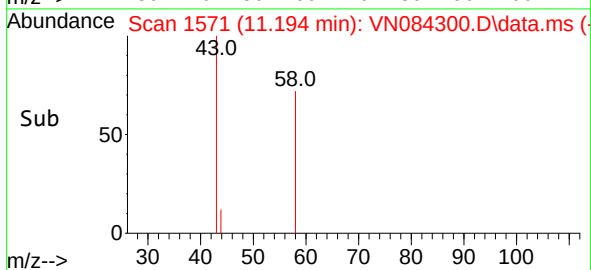
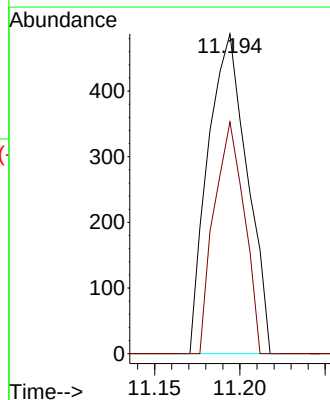
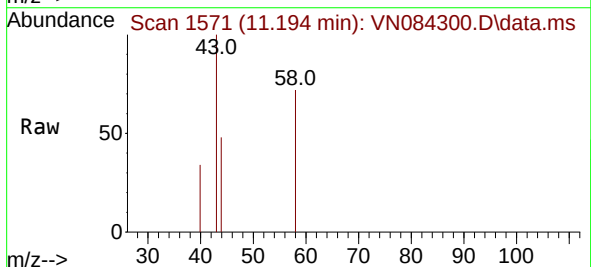
Instrument :
MSVOA_N
ClientSampleId :
IBLK

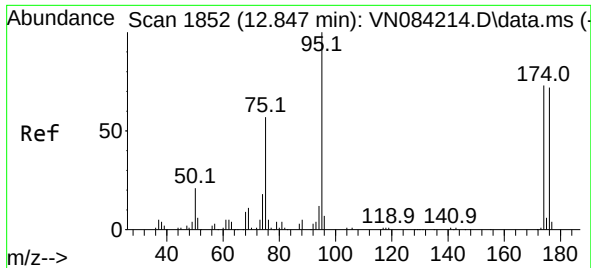
Tgt Ion: 98 Resp: 351408
Ion Ratio Lower Upper
98 100
100 63.7 52.7 79.1



#59
2-Hexanone
Concen: 0.388 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

Tgt Ion: 43 Resp: 778
Ion Ratio Lower Upper
43 100
58 55.5 27.3 81.8

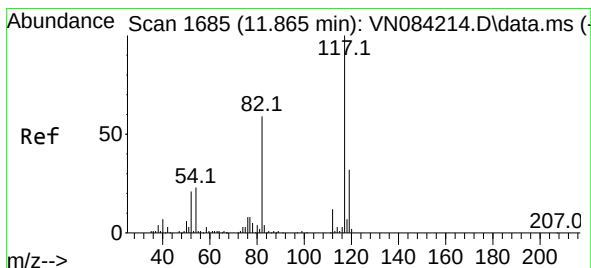
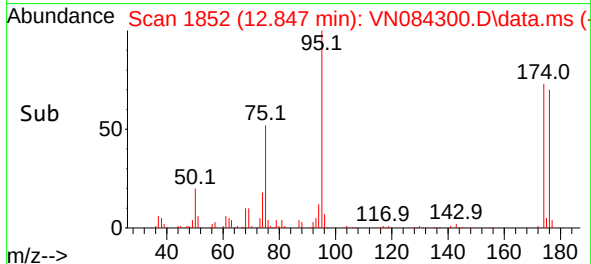
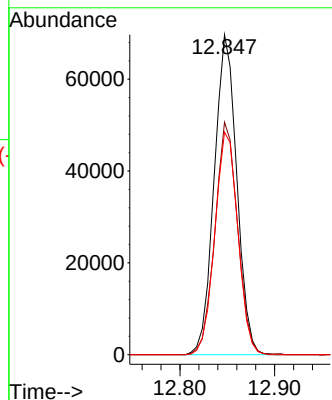
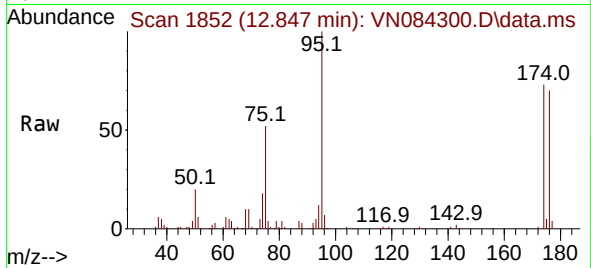




#62
4-Bromofluorobenzene
Concen: 45.487 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

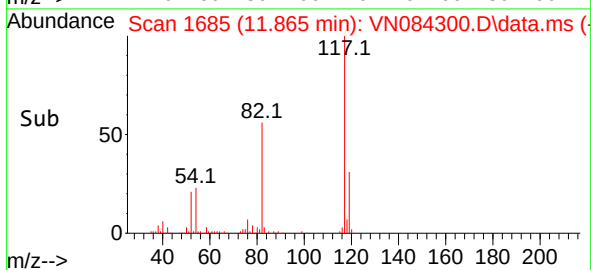
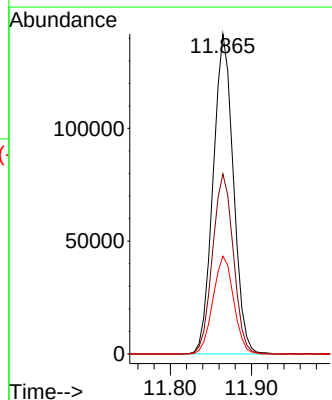
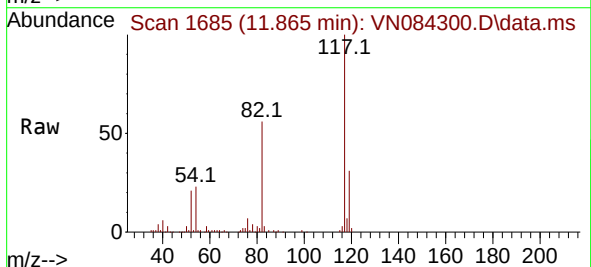
Instrument :
MSVOA_N
ClientSampleId :
IBLK

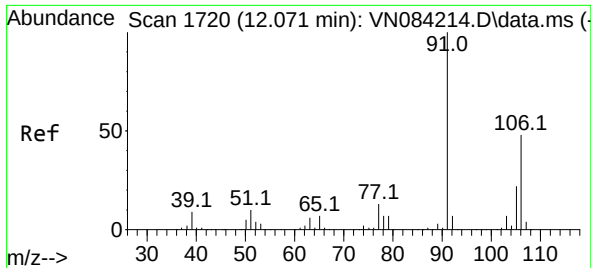
Tgt Ion: 95 Resp: 115448
Ion Ratio Lower Upper
95 100
174 73.0 0.0 145.2
176 71.0 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

Tgt Ion: 117 Resp: 245869
Ion Ratio Lower Upper
117 100
82 56.3 47.2 70.8
119 30.5 25.4 38.0

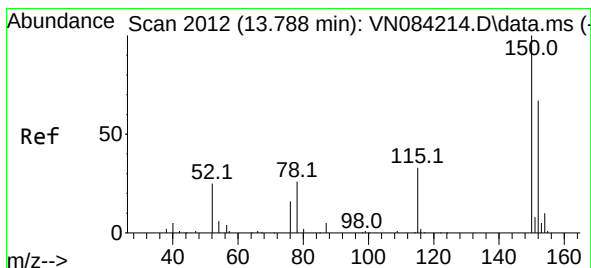
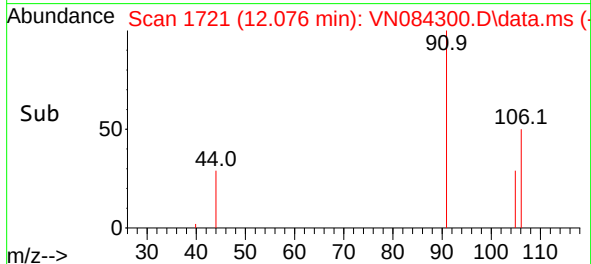
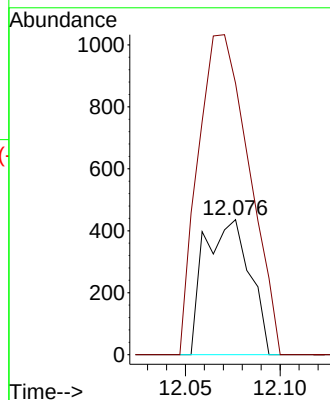
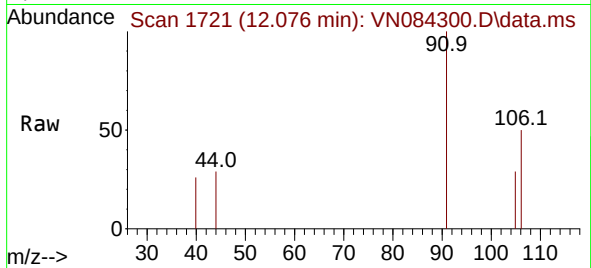




#68
m/p-Xylenes
Concen: 0.203 ug/l
RT: 12.076 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

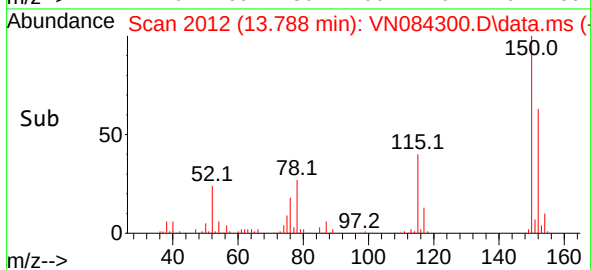
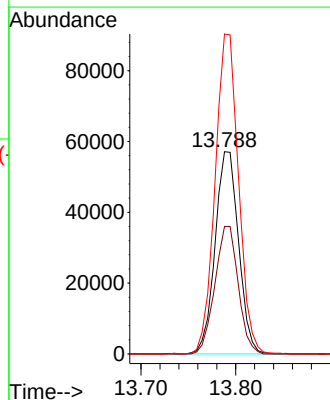
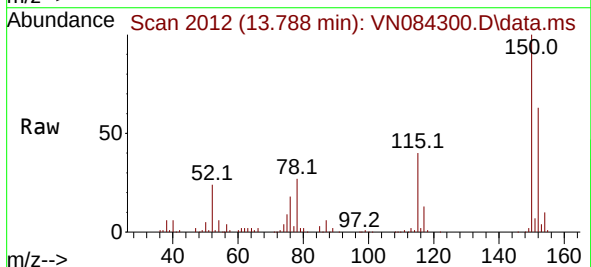
Instrument :
MSVOA_N
ClientSampleId :
IBLK

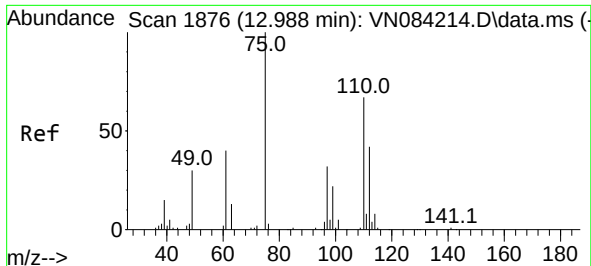
Tgt Ion:106 Resp: 724
Ion Ratio Lower Upper
106 100
91 267.1 167.1 250.7#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

Tgt Ion:152 Resp: 98316
Ion Ratio Lower Upper
152 100
115 62.7 31.3 93.9
150 157.9 0.0 349.8

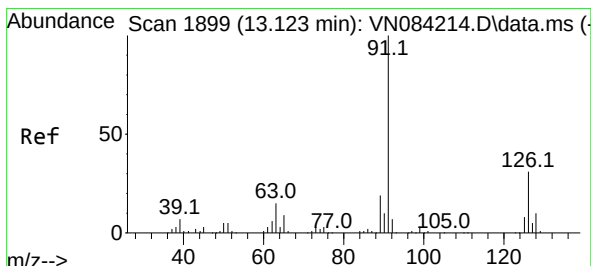
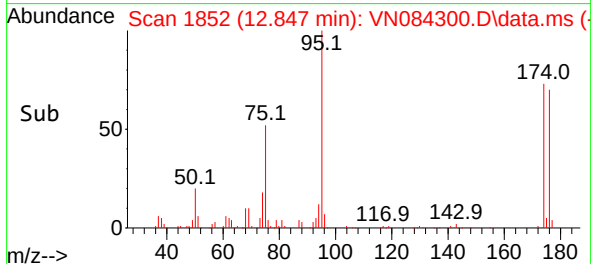
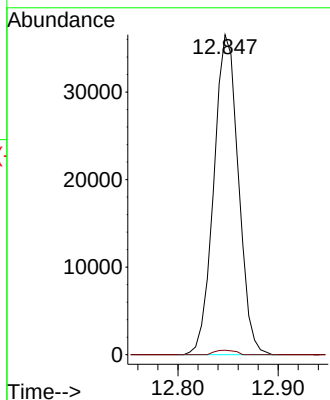
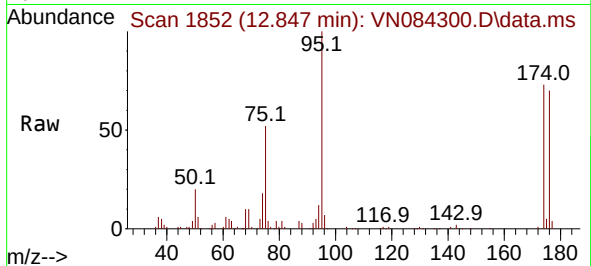




#76
1,2,3-Trichloropropane
Concen: 30.951 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

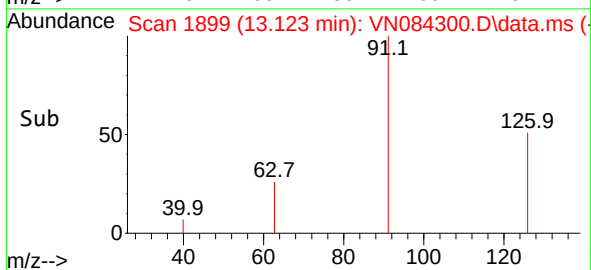
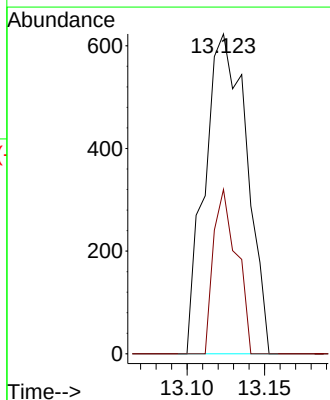
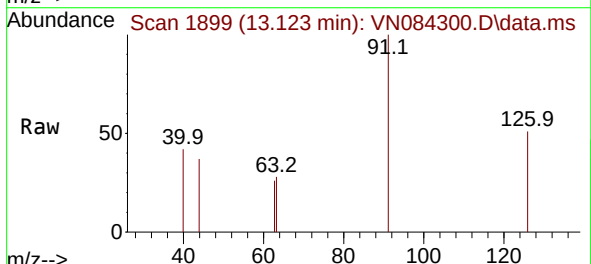
Instrument :
MSVOA_N
ClientSampleId :
IBLK

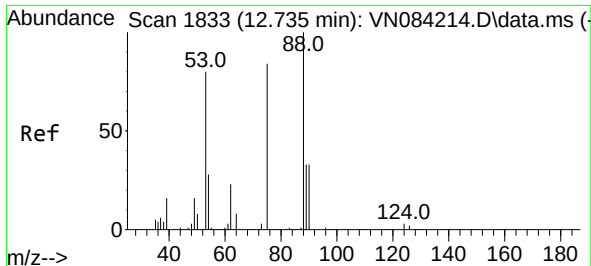
Tgt Ion: 75 Resp: 62123
Ion Ratio Lower Upper
75 100
77 1.2 96.9 290.7#



#79
2-Chlorotoluene
Concen: 0.210 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

Tgt Ion: 91 Resp: 1167
Ion Ratio Lower Upper
91 100
126 28.6 15.7 47.1

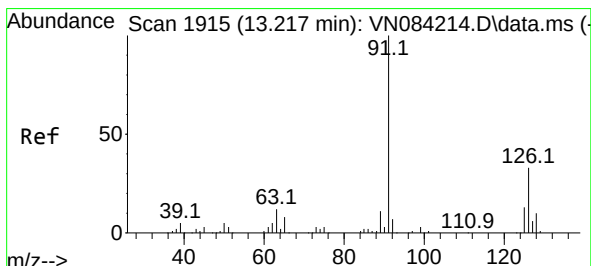
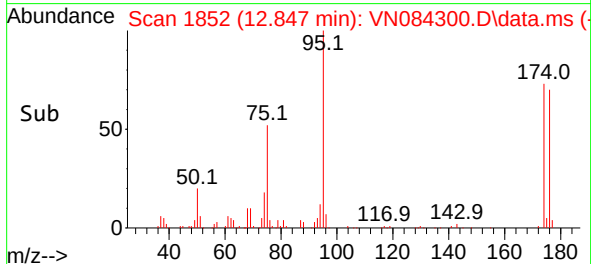
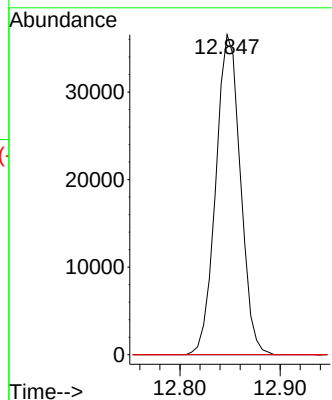
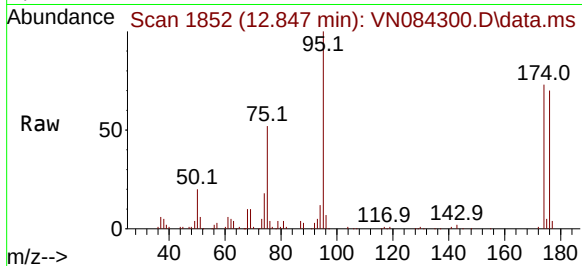




#81
trans-1,4-Dichloro-2-butene
Concen: 74.203 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

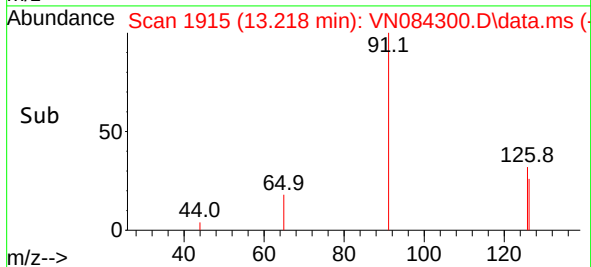
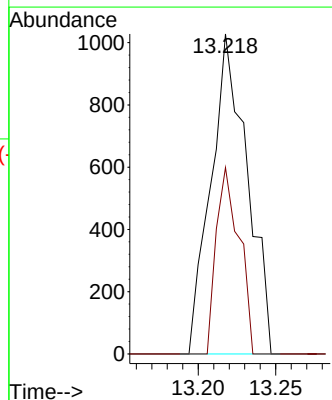
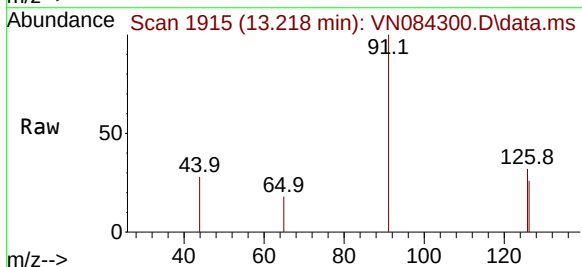
Instrument :
MSVOA_N
ClientSampleId :
IBLK

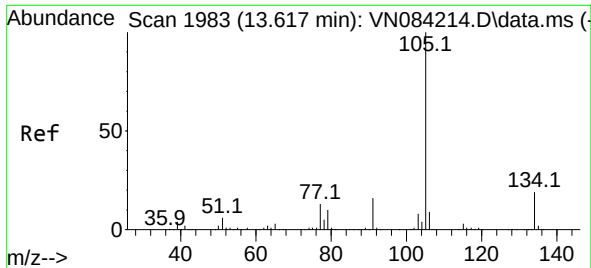
Tgt Ion: 75 Resp: 62123
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 35.5 53.3#



#82
4-Chlorotoluene
Concen: 0.298 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

Tgt Ion: 91 Resp: 1666
Ion Ratio Lower Upper
91 100
126 37.0 15.7 47.1

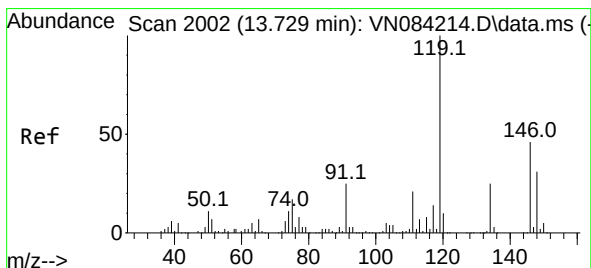
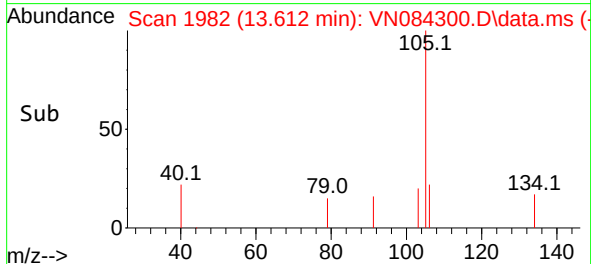
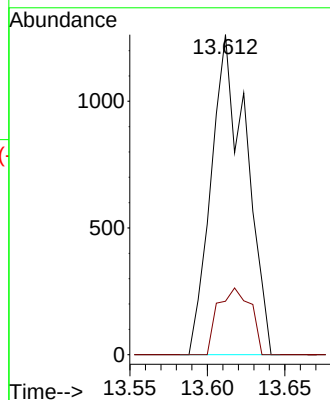
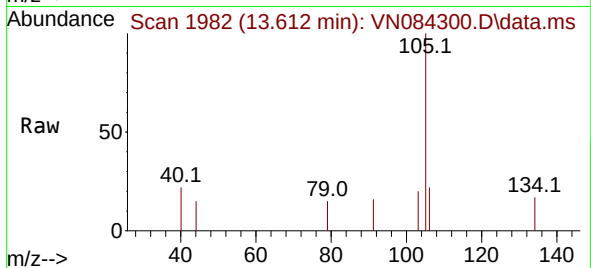




#85
 sec-Butylbenzene
 Concen: 0.274 ug/l
 RT: 13.612 min Scan# 1987
 Delta R.T. -0.006 min
 Lab File: VN084300.D
 Acq: 03 Oct 2024 15:51

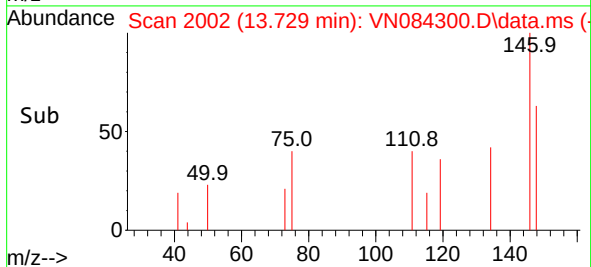
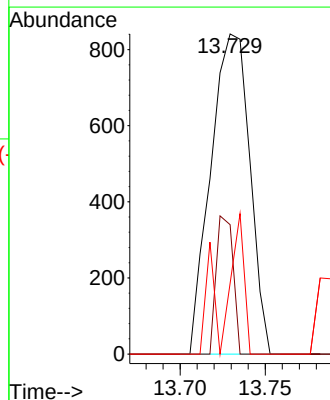
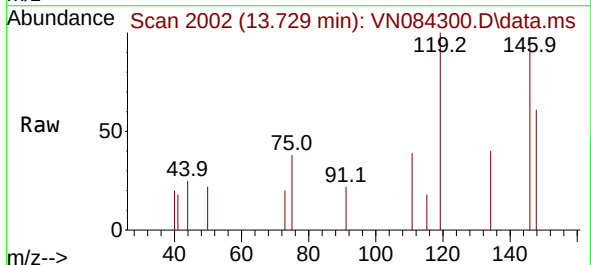
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

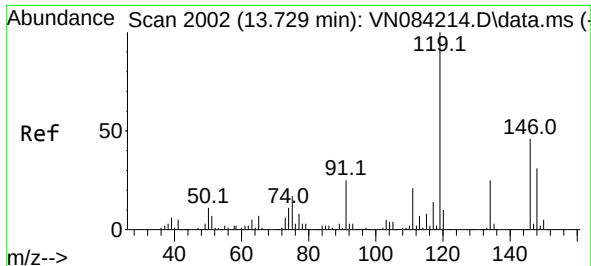
Tgt Ion:105 Resp: 1987
 Ion Ratio Lower Upper
 105 100
 134 19.3 9.8 29.4



#86
 p-Isopropyltoluene
 Concen: 0.223 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN084300.D
 Acq: 03 Oct 2024 15:51

Tgt Ion:119 Resp: 1340
 Ion Ratio Lower Upper
 119 100
 134 18.5 12.6 37.8
 91 14.6 12.4 37.2





#87

1,3-Dichlorobenzene

Concen: 0.420 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.006 min

Lab File: VN084300.D

Acq: 03 Oct 2024 15:51

Instrument :

MSVOA_N

ClientSampleId :

IBLK

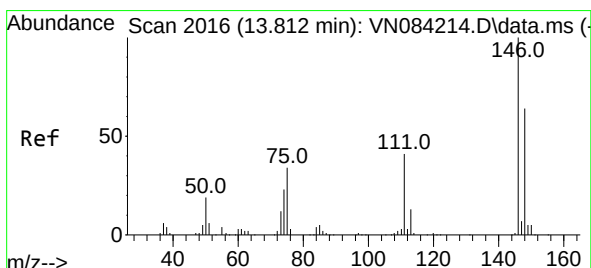
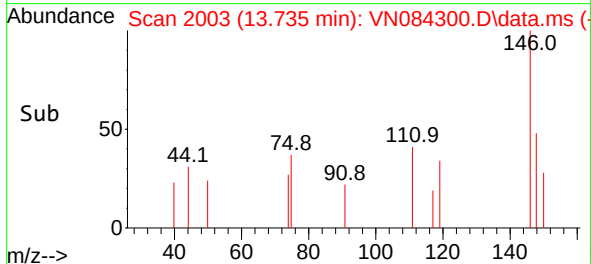
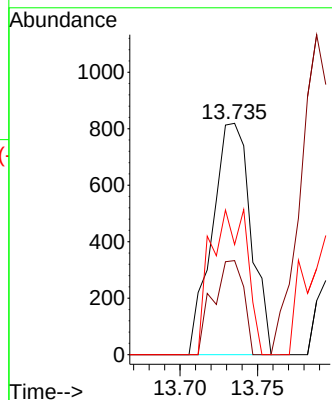
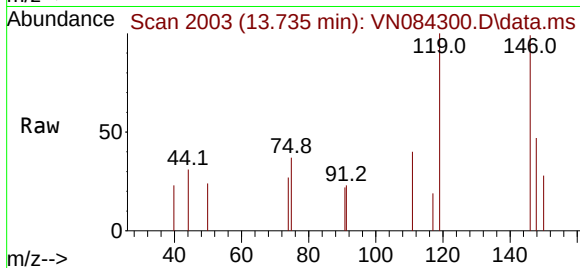
Tgt Ion:146 Resp: 1425

Ion Ratio Lower Upper

146 100

111 32.1 21.8 65.3

148 58.7 31.9 95.7



#88

1,4-Dichlorobenzene

Concen: 0.416 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.076 min

Lab File: VN084300.D

Acq: 03 Oct 2024 15:51

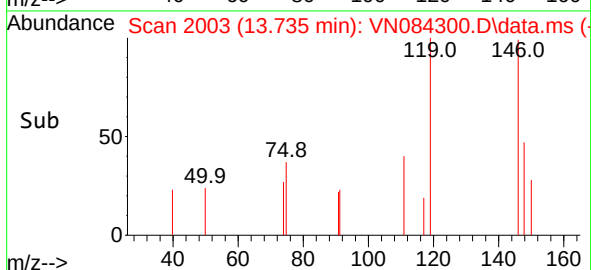
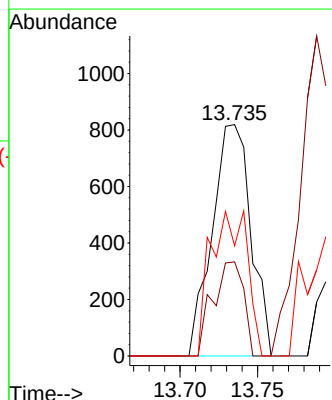
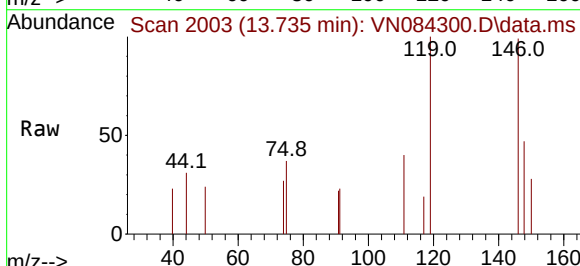
Tgt Ion:146 Resp: 1425

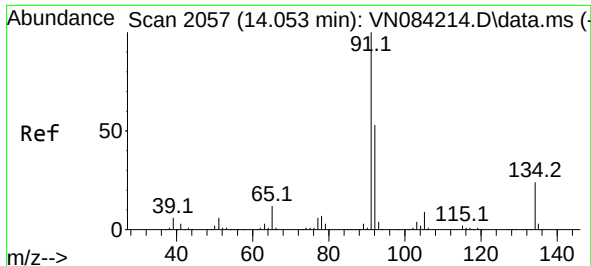
Ion Ratio Lower Upper

146 100

111 32.1 21.2 63.6

148 58.7 31.9 95.9



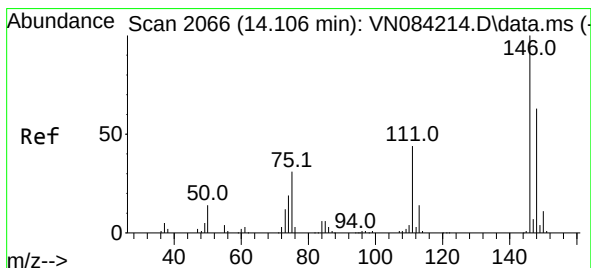
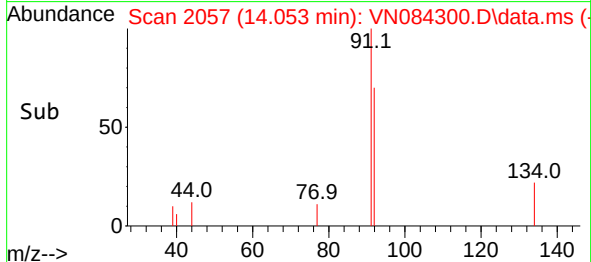
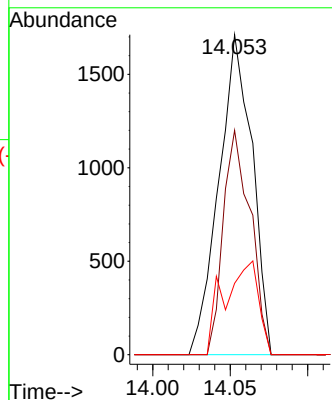
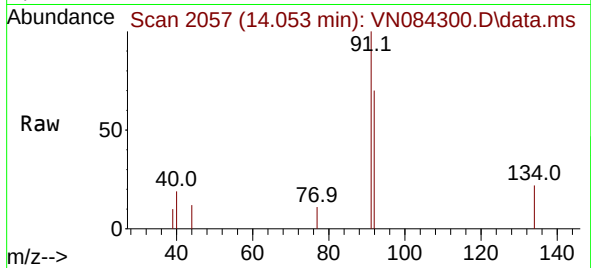


#89
n-Butylbenzene
Concen: 0.470 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

Instrument :
MSVOA_N
ClientSampleId :
IBLK

Tgt Ion: 91 Resp: 2556

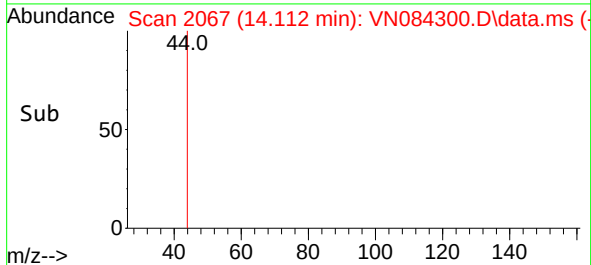
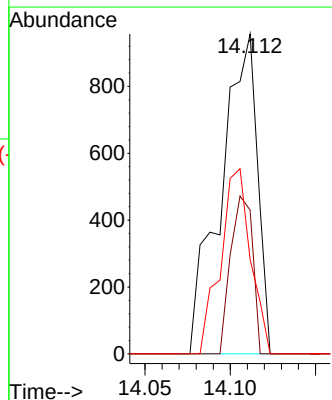
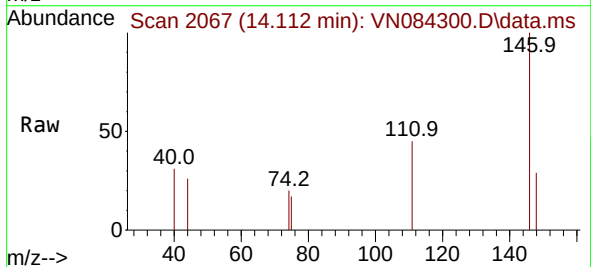
Ion	Ratio	Lower	Upper
91	100		
92	57.4	26.6	79.7
134	30.2	12.3	36.9

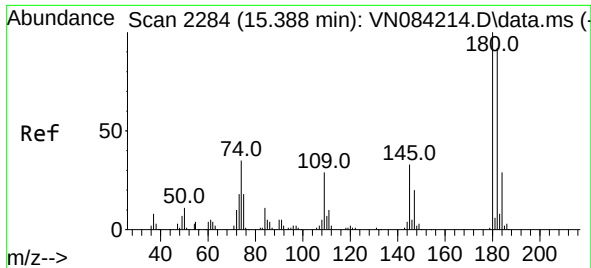


#91
1,2-Dichlorobenzene
Concen: 0.429 ug/l
RT: 14.112 min Scan# 2067
Delta R.T. 0.006 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

Tgt Ion: 146 Resp: 1429

Ion	Ratio	Lower	Upper
146	100		
111	29.6	22.0	66.0
148	47.7	32.1	96.3

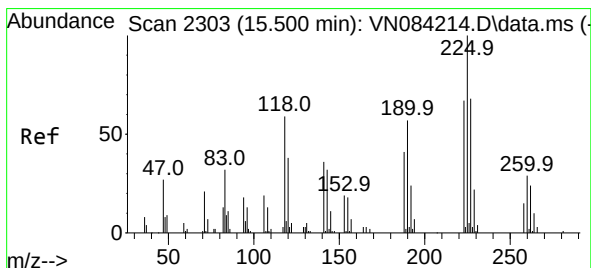
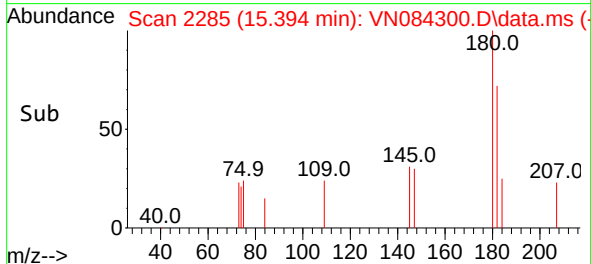
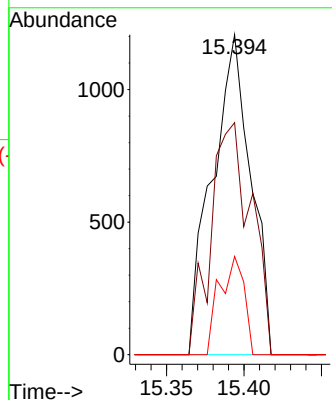
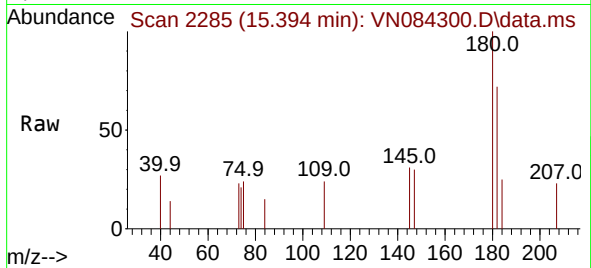




#93
 1,2,4-Trichlorobenzene
 Concen: 1.276 ug/l
 RT: 15.394 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN084300.D
 Acq: 03 Oct 2024 15:51

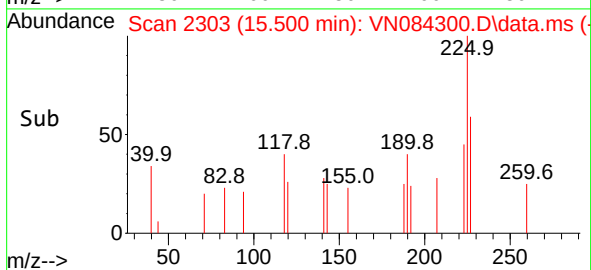
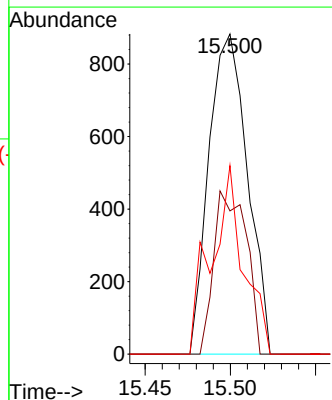
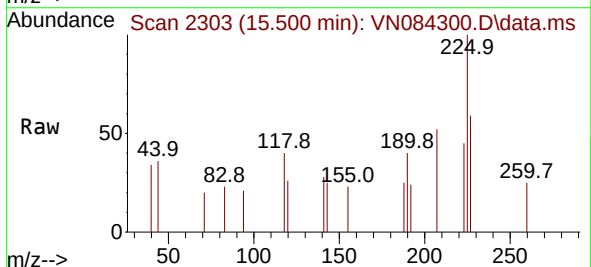
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

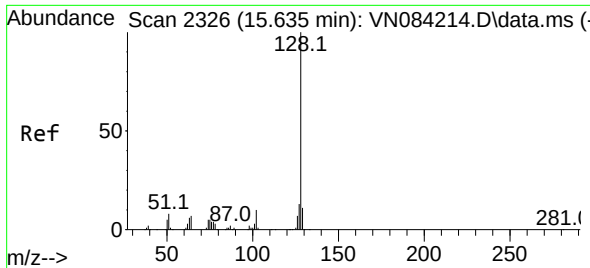
Tgt Ion:180 Resp: 2093
 Ion Ratio Lower Upper
 180 100
 182 75.8 47.0 141.0
 145 19.5 16.4 49.4



#94
 Hexachlorobutadiene
 Concen: 1.705 ug/l
 RT: 15.500 min Scan# 2303
 Delta R.T. 0.000 min
 Lab File: VN084300.D
 Acq: 03 Oct 2024 15:51

Tgt Ion:225 Resp: 1394
 Ion Ratio Lower Upper
 225 100
 223 42.9 32.4 97.2
 227 49.3 32.4 97.0

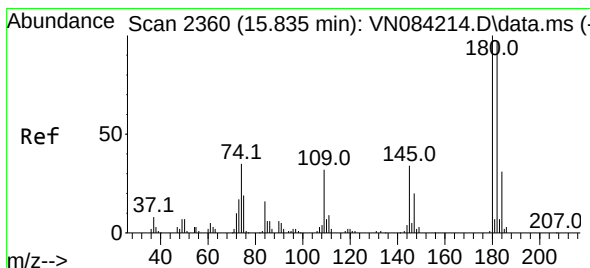
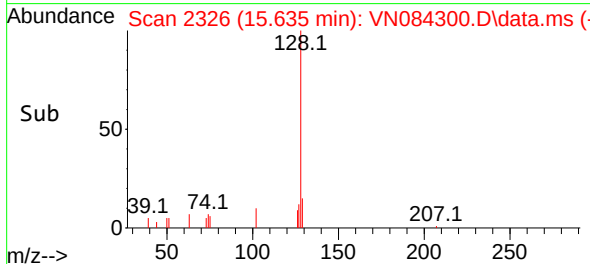
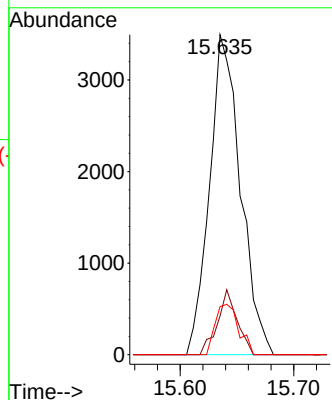
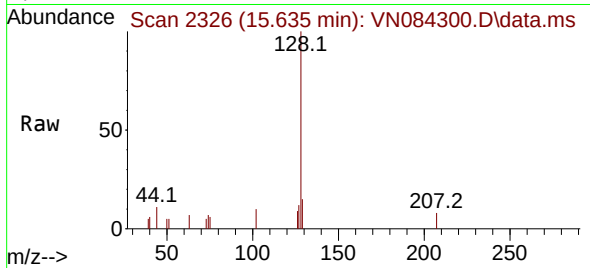




#95
Naphthalene
Concen: 1.216 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

Instrument :
MSVOA_N
ClientSampleId :
IBLK

Tgt Ion:	128	Resp:	6611
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	11.9	8.7	13.1



#96
1,2,3-Trichlorobenzene
Concen: 1.331 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN084300.D
Acq: 03 Oct 2024 15:51

Tgt Ion:	180	Resp:	2185
Ion	Ratio	Lower	Upper
180	100		
182	103.0	48.2	144.6
145	34.1	17.3	51.9

