

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112423\
 Data File : VN080257.D
 Acq On : 24 Nov 2023 12:44
 Operator : JC\MD
 Sample : VN1124WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 27 04:06:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N110823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Nov 09 04:02:05 2023
 Response via : Initial Calibration

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

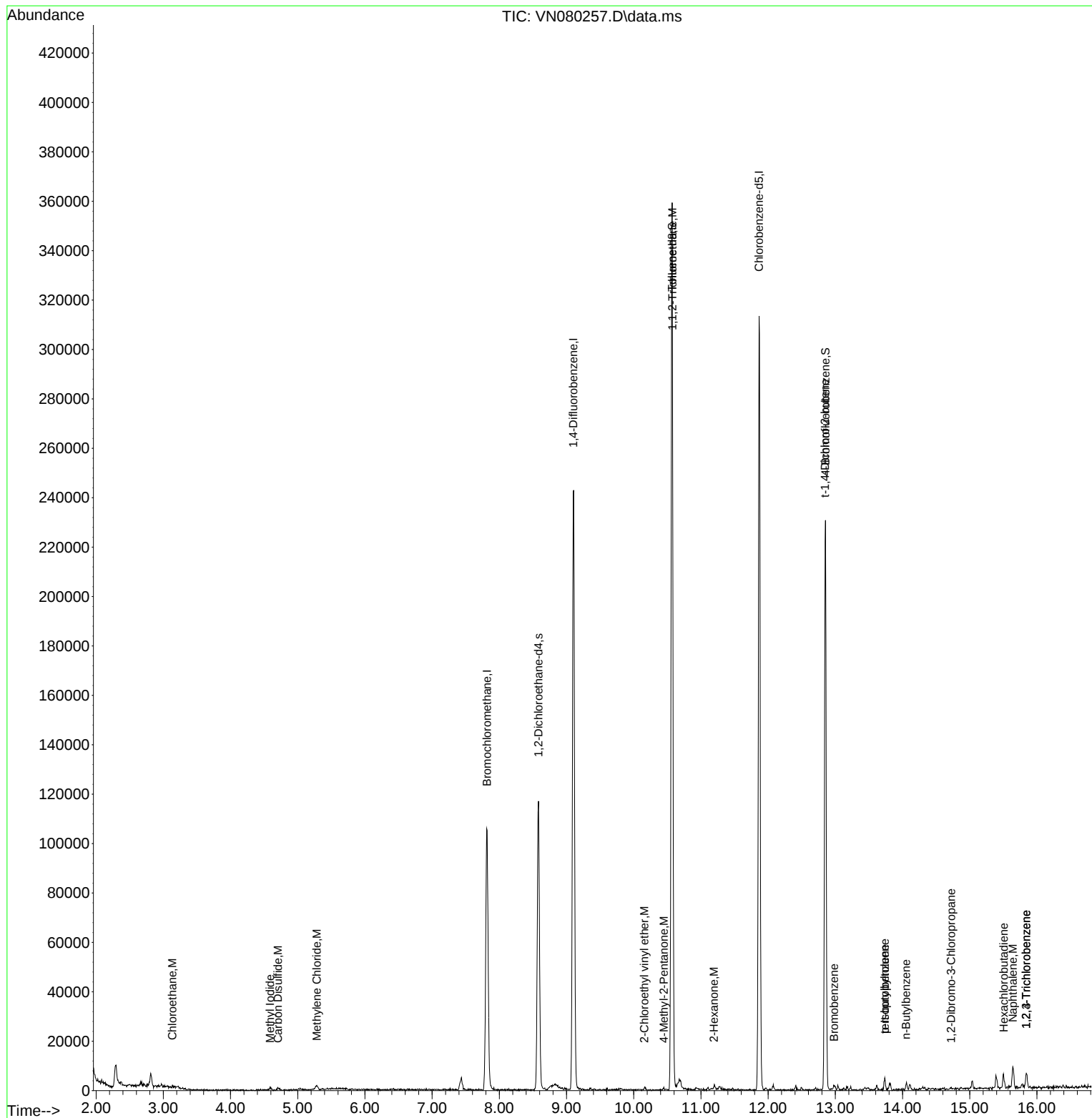
Internal Standards						
1) Bromochloromethane	7.818	128	38918	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	207978	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	181691	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	109178	33.420	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	111.400%#
60) 4-Bromofluorobenzene	12.853	95	83496	28.737	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.800%
63) Toluene-d8	10.571	98	252537	29.334	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.767%
Target Compounds						
					Qvalue	
6) Chloroethane	3.136	64	501	0.323	ug/l #	46
11) Methyl Iodide	4.589	142	718	0.271	ug/l #	64
16) Carbon Disulfide	4.707	76	2282	0.334	ug/l #	74
18) Methylene Chloride	5.283	84	807	0.300	ug/l #	67
50) 1,1,2-Trichloroethane	10.577	97	8494	3.432	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.159	63	339	0.207	ug/l #	45
58) 4-Methyl-2-Pentanone	10.447	43	610	0.201	ug/l #	44
59) 2-Hexanone	11.194	43	933	0.403	ug/l #	79
73) Bromobenzene	12.983	156	559	0.231	ug/l	50
77) t-1,4-Dichloro-2-butene	12.847	75	43776	42.979	ug/l #	7
79) tert-butylbenzene	13.735	119	1532	0.241	ug/l	47
82) p-Isopropyltoluene	13.735	119	1532	0.210	ug/l	80
85) n-Butylbenzene	14.053	91	2183	0.358	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.724	75	259	0.423	ug/l #	39
89) 1,2,4-Trichlorobenzene	15.841	180	2260	1.160	ug/l #	26
90) Hexachlorobutadiene	15.506	225	1273	1.325	ug/l	70
91) Naphthalene	15.641	128	8931	1.428	ug/l #	93
92) 1,2,3-Trichlorobenzene	15.841	180	2260	1.160	ug/l	26

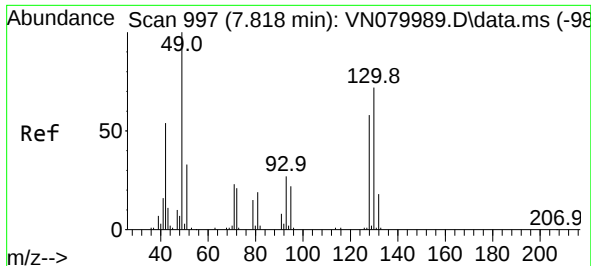
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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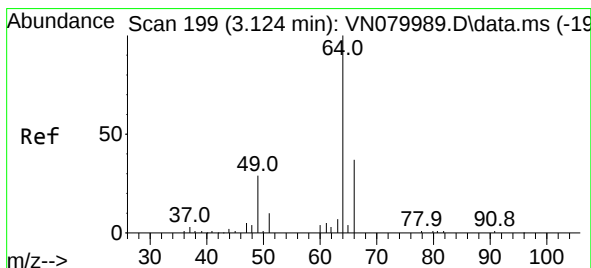
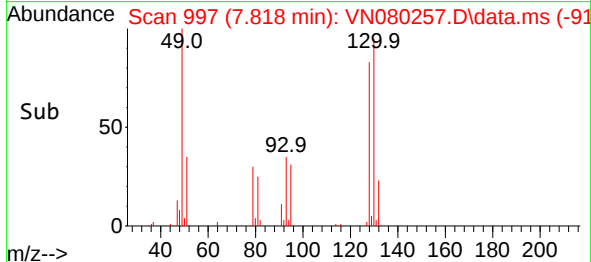
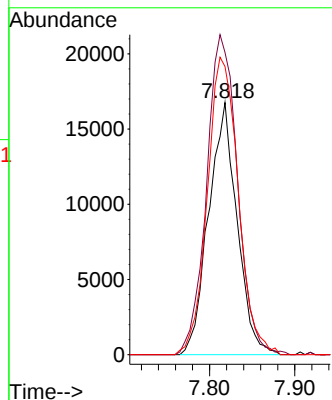
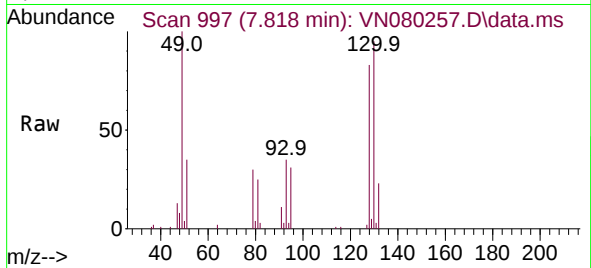




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN080257.D
Acq: 24 Nov 2023 12:44

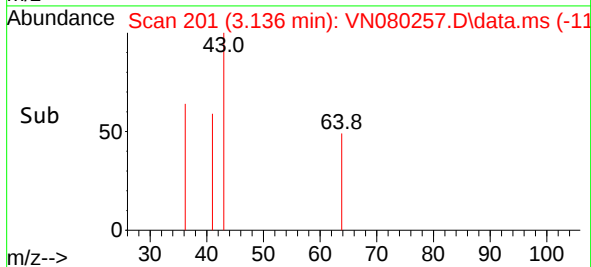
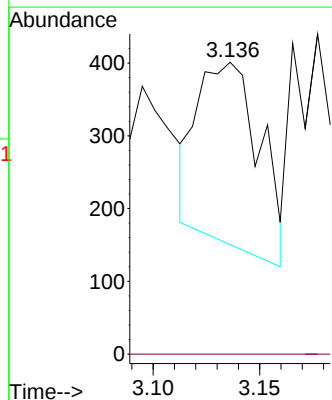
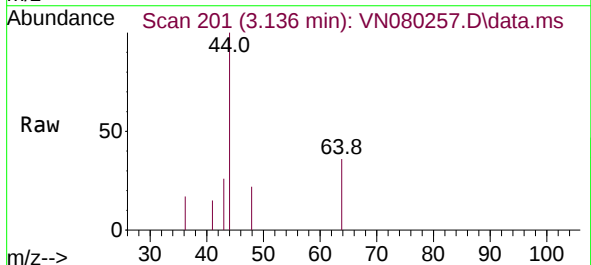
Instrument :
MSVOA_N
ClientSampleId :

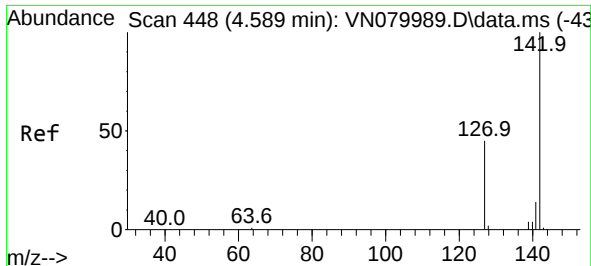
Tgt Ion:128 Resp: 38918
Ion Ratio Lower Upper
128 100
49 137.4 0.0 468.5
130 128.4 0.0 320.7



#6
Chloroethane
Concen: 0.323 ug/l
RT: 3.136 min Scan# 201
Delta R.T. 0.012 min
Lab File: VN080257.D
Acq: 24 Nov 2023 12:44

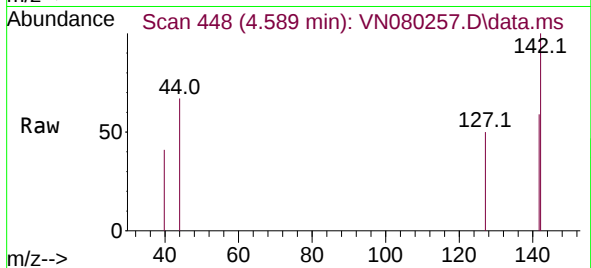
Tgt Ion: 64 Resp: 501
Ion Ratio Lower Upper
64 100
66 0.0 23.3 34.9#



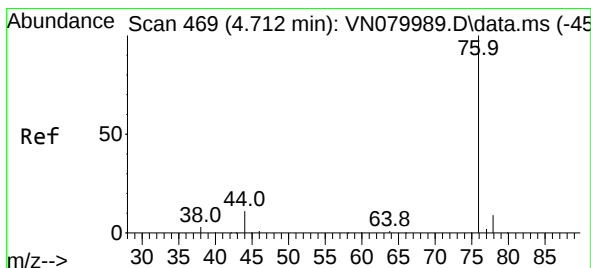
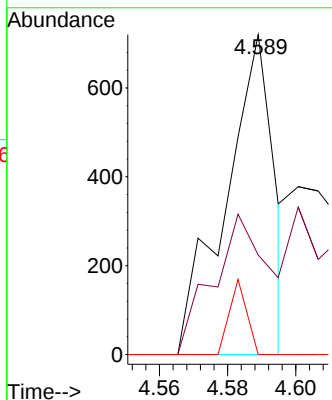
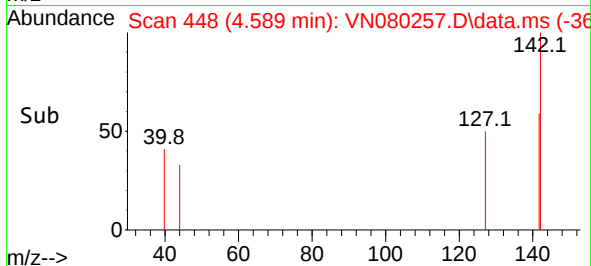


#11
Methyl Iodide
Concen: 0.271 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.005 min
Lab File: VN080257.D
Acq: 24 Nov 2023 12:44

Instrument :
MSVOA_N
ClientSampleId :

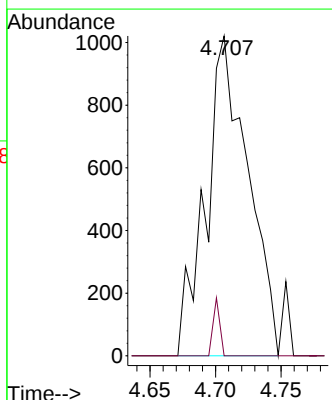
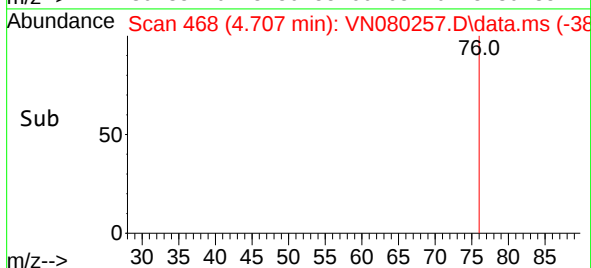
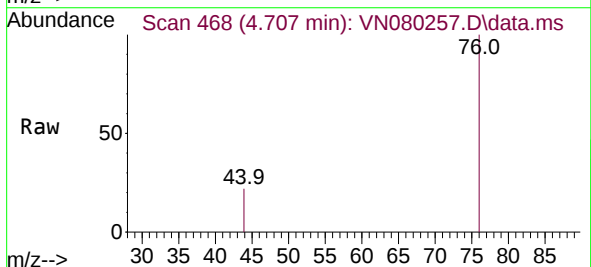


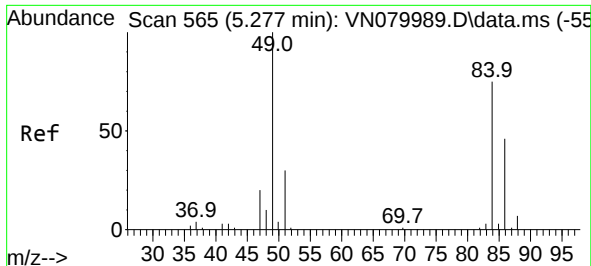
Tgt Ion:142 Resp: 718
Ion Ratio Lower Upper
142 100
127 25.0 24.6 73.8
141 0.0 7.7 23.1#



#16
Carbon Disulfide
Concen: 0.334 ug/l
RT: 4.707 min Scan# 468
Delta R.T. -0.011 min
Lab File: VN080257.D
Acq: 24 Nov 2023 12:44

Tgt Ion: 76 Resp: 2282
Ion Ratio Lower Upper
76 100
78 0.0 7.5 11.3#





#18

Methylene Chloride

Concen: 0.300 ug/l

RT: 5.283 min Scan# 5

Delta R.T. 0.000 min

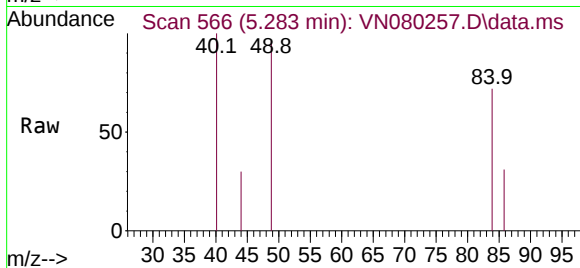
Lab File: VN080257.D

Acq: 24 Nov 2023 12:44

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 84 Resp: 807

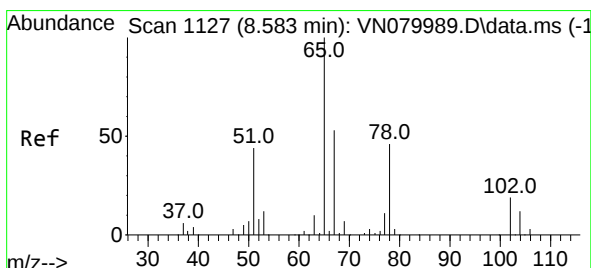
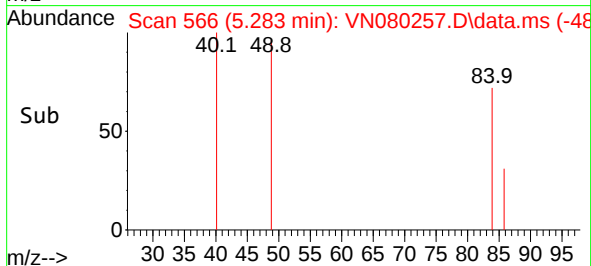
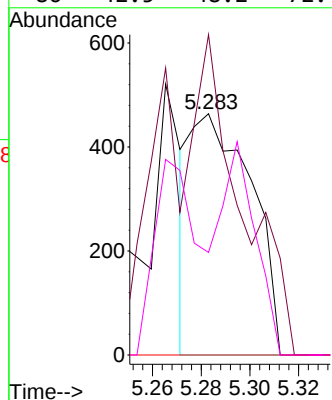
Ion Ratio Lower Upper

84 100

49 92.7 100.9 151.3#

51 0.0 29.4 44.2#

86 42.5 48.2 72.4#



#27

1,2-Dichloroethane-d4

Concen: 33.420 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.001 min

Lab File: VN080257.D

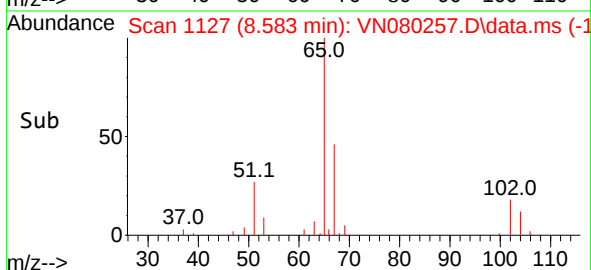
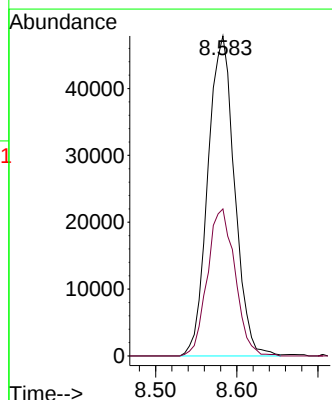
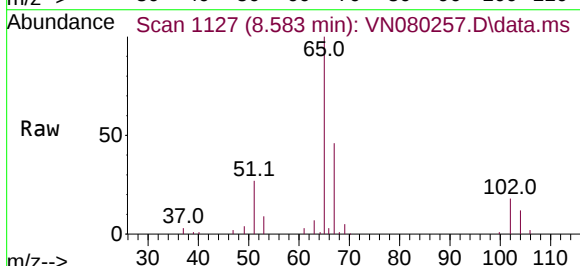
Acq: 24 Nov 2023 12:44

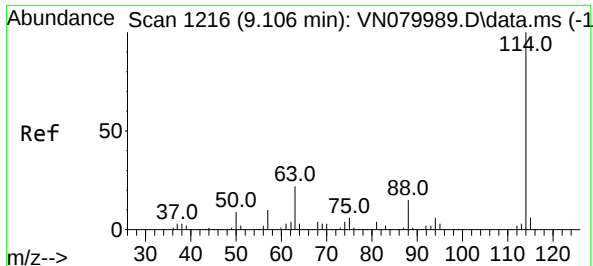
Tgt Ion: 65 Resp: 109178

Ion Ratio Lower Upper

65 100

67 47.5 42.1 63.1

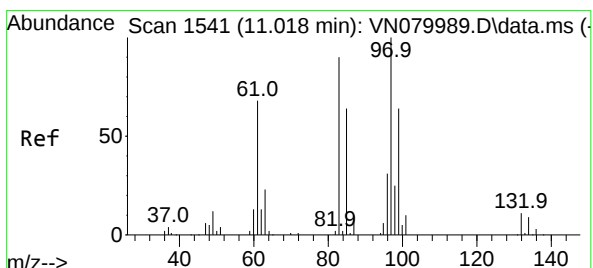
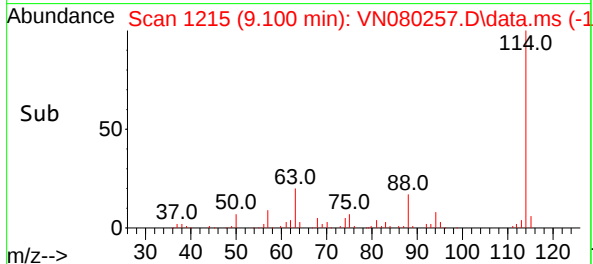
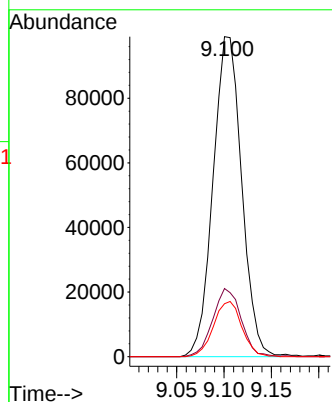
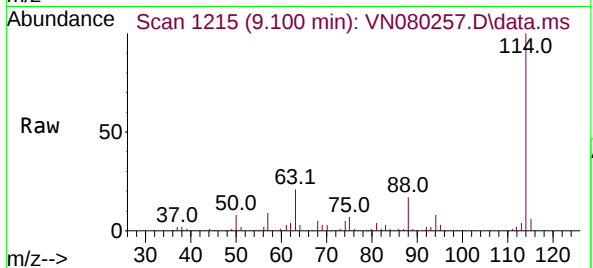




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN080257.D
Acq: 24 Nov 2023 12:44

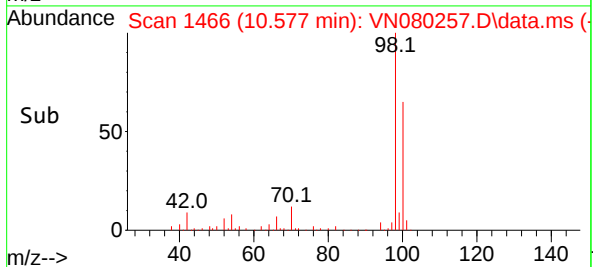
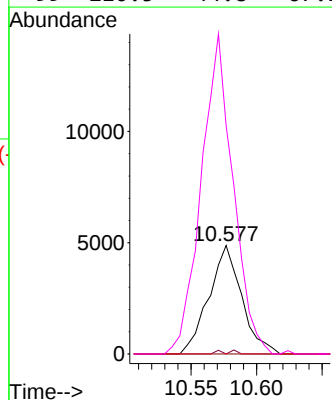
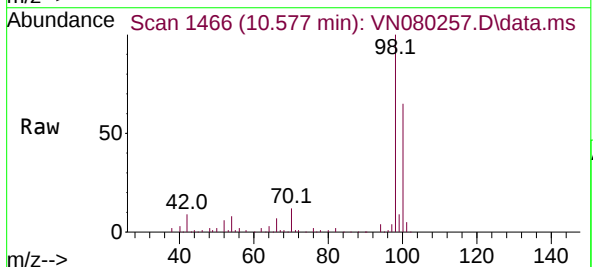
Instrument :
MSVOA_N
ClientSampleId :

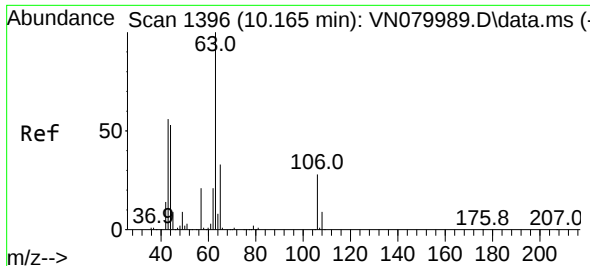
Tgt Ion:114 Resp: 207978
Ion Ratio Lower Upper
114 100
63 21.1 18.1 27.1
88 17.1 12.2 18.2



#50
1,1,2-Trichloroethane
Concen: 3.432 ug/l
RT: 10.577 min Scan# 1466
Delta R.T. -0.441 min
Lab File: VN080257.D
Acq: 24 Nov 2023 12:44

Tgt Ion: 97 Resp: 8494
Ion Ratio Lower Upper
97 100
83 0.0 68.2 102.4#
85 0.0 42.9 64.3#
99 210.5 44.8 67.2#

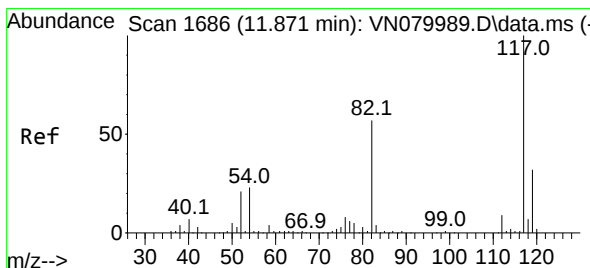
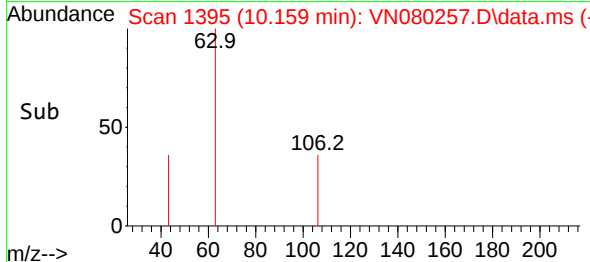
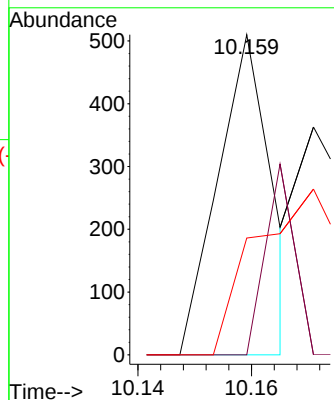
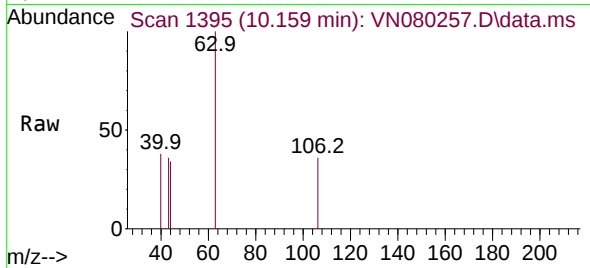




#55
2-Chloroethyl vinyl ether
Concen: 0.207 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN080257.D
Acq: 24 Nov 2023 12:44

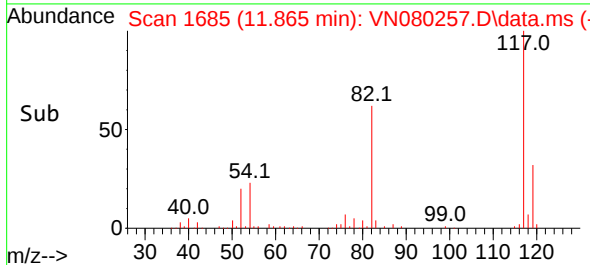
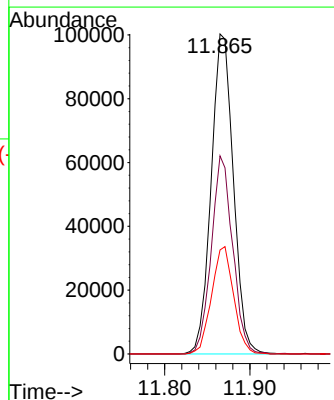
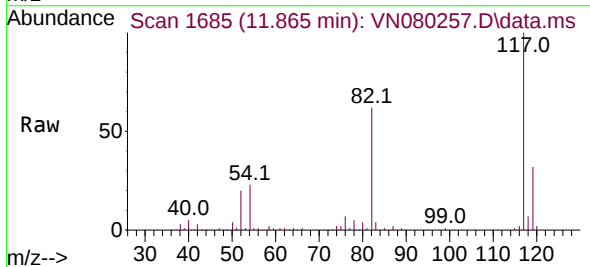
Instrument :
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ClientSampleId :

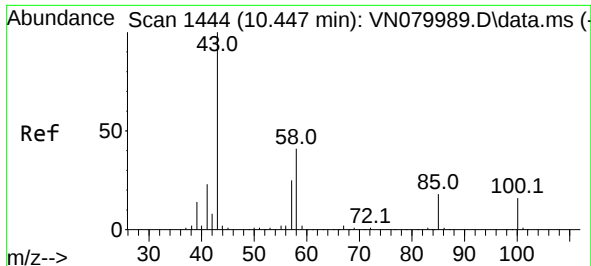
Tgt Ion: 63 Resp: 339
Ion Ratio Lower Upper
63 100
65 0.0 25.9 38.9#
106 0.0 20.6 30.8#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.005 min
Lab File: VN080257.D
Acq: 24 Nov 2023 12:44

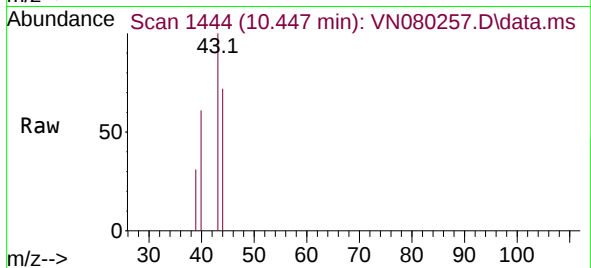
Tgt Ion: 117 Resp: 181691
Ion Ratio Lower Upper
117 100
82 59.7 46.2 69.2
119 33.4 25.2 37.8



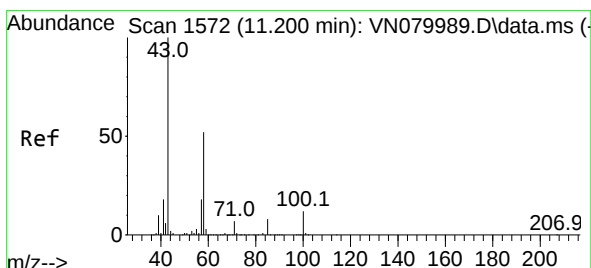
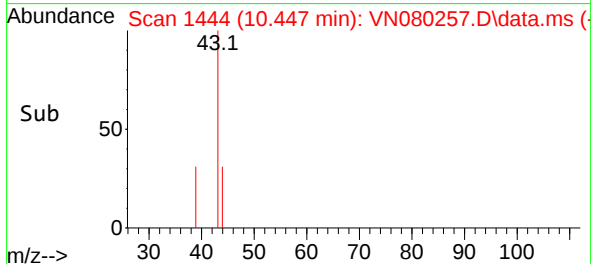
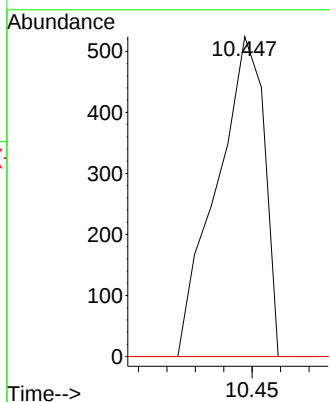


#58
4-Methyl-2-Pentanone
Concen: 0.201 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN080257.D
Acq: 24 Nov 2023 12:44

Instrument :
MSVOA_N
ClientSampleId :

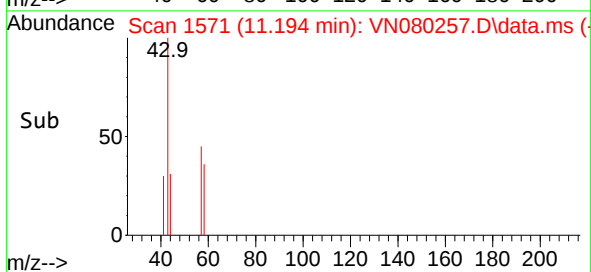
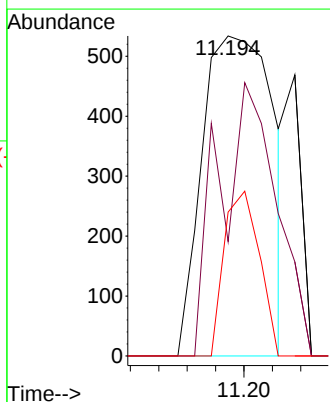
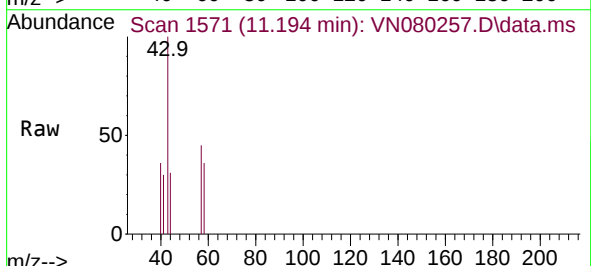


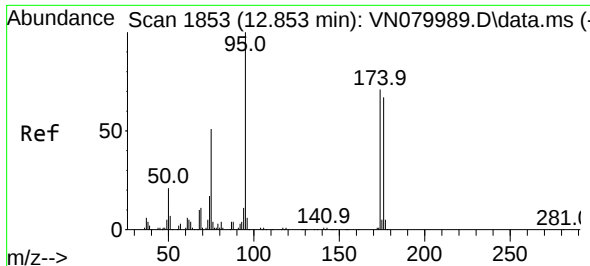
Tgt Ion: 43 Resp: 610
Ion Ratio Lower Upper
43 100
58 0.0 30.4 45.6#
85 0.0 13.2 19.8#



#59
2-Hexanone
Concen: 0.403 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.006 min
Lab File: VN080257.D
Acq: 24 Nov 2023 12:44

Tgt Ion: 43 Resp: 933
Ion Ratio Lower Upper
43 100
58 68.7 42.3 63.5#
57 25.4 13.9 20.9#

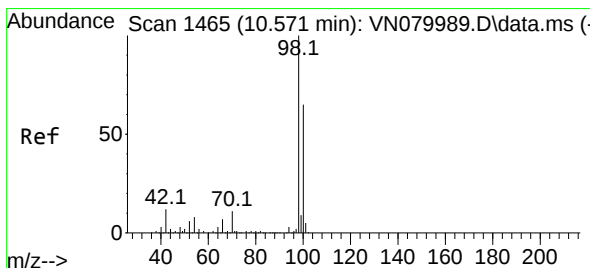
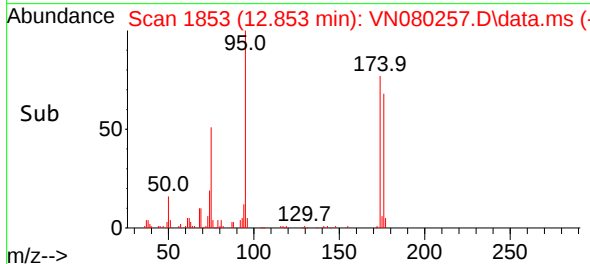
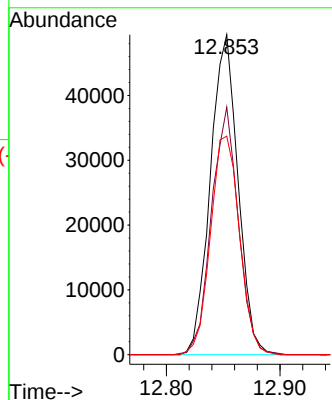
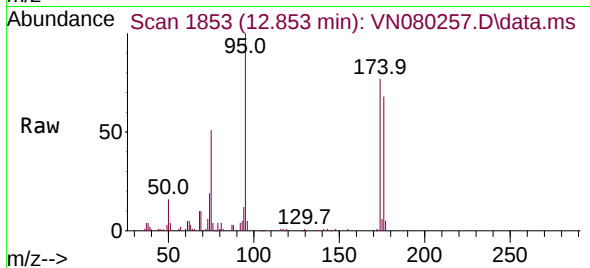




#60
4-Bromofluorobenzene
Concen: 28.737 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN080257.D
Acq: 24 Nov 2023 12:44

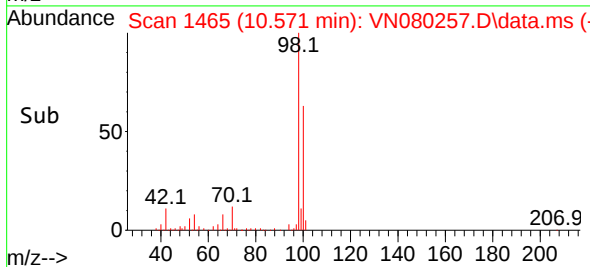
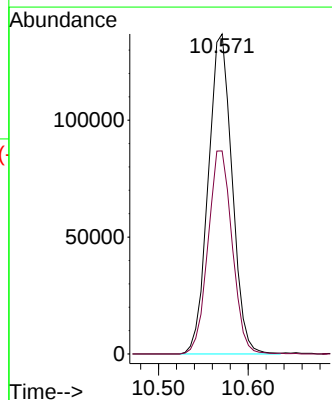
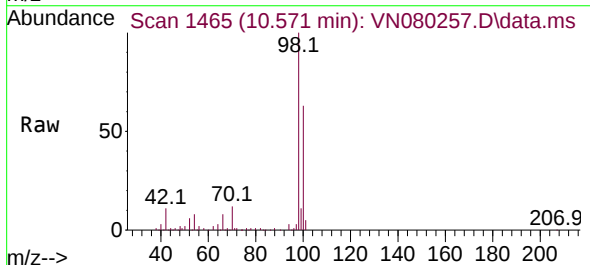
Instrument :
MSVOA_N
ClientSampleId :

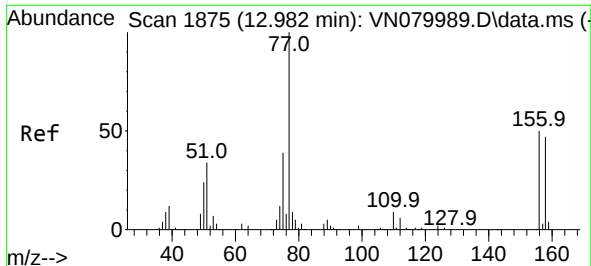
Tgt Ion: 95 Resp: 83496
Ion Ratio Lower Upper
95 100
174 75.1 60.5 90.7
176 71.7 57.2 85.8



#63
Toluene-d8
Concen: 29.334 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.001 min
Lab File: VN080257.D
Acq: 24 Nov 2023 12:44

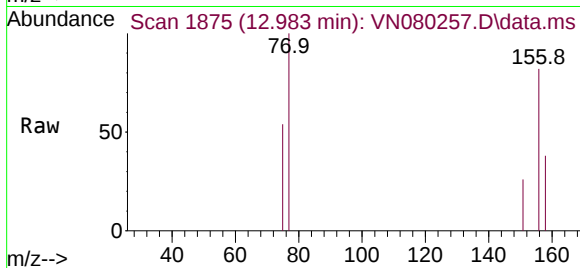
Tgt Ion: 98 Resp: 252537
Ion Ratio Lower Upper
98 100
100 64.2 51.6 77.4



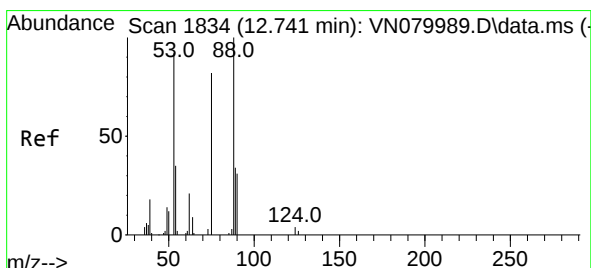
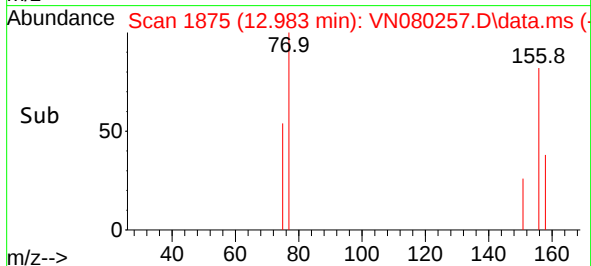
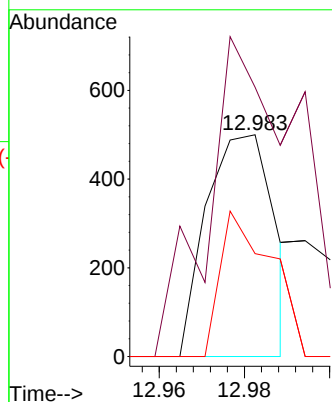


#73
Bromobenzene
Concen: 0.231 ug/l
RT: 12.983 min Scan# 11
Delta R.T. 0.001 min
Lab File: VN080257.D
Acq: 24 Nov 2023 12:44

Instrument :
MSVOA_N
ClientSampleId :

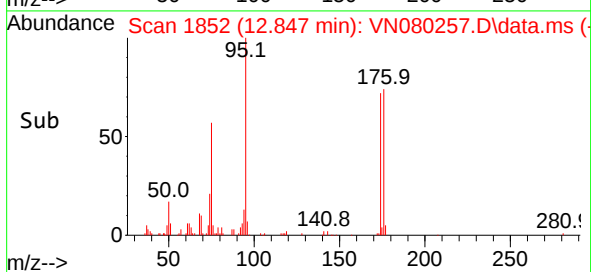
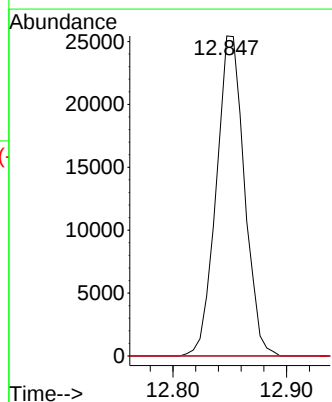
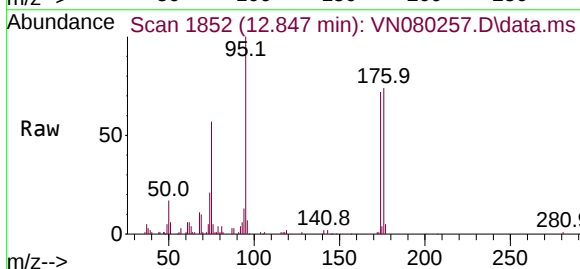


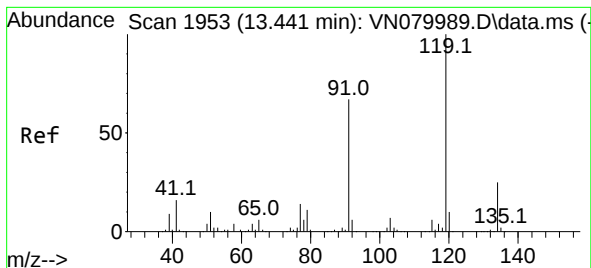
Tgt Ion:156 Resp: 559
Ion Ratio Lower Upper
156 100
77 143.1 0.0 448.2
158 49.2 0.0 194.8



#77
t-1,4-Dichloro-2-butene
Concen: 42.979 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.106 min
Lab File: VN080257.D
Acq: 24 Nov 2023 12:44

Tgt Ion: 75 Resp: 43776
Ion Ratio Lower Upper
75 100
53 0.0 53.0 159.1#
89 0.0 22.6 67.7#





#79

tert-butylbenzene

Concen: 0.241 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.294 min

Lab File: VN080257.D

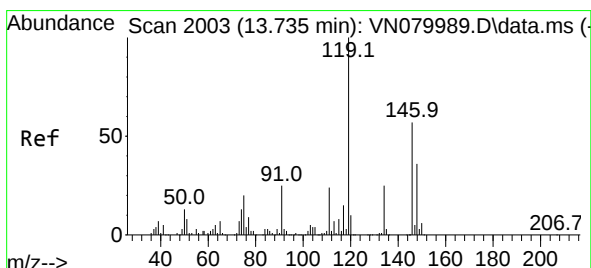
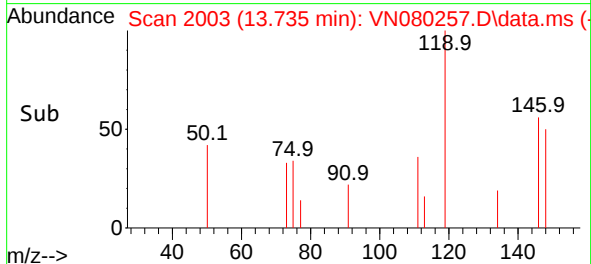
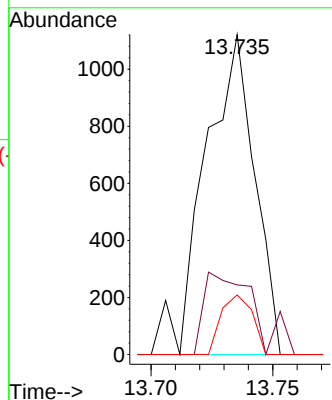
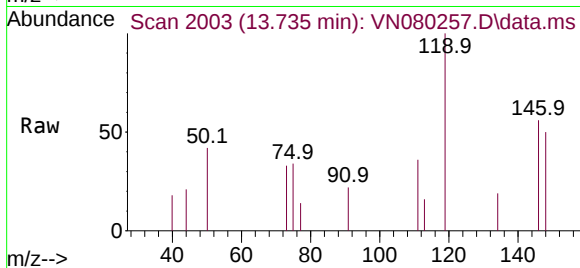
Acq: 24 Nov 2023 12:44

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	119	Resp:	1532
Ion	Ratio	Lower	Upper
119	100		
91	18.3	0.0	140.6
134	12.2	0.0	49.8



#82

p-Isopropyltoluene

Concen: 0.210 ug/l

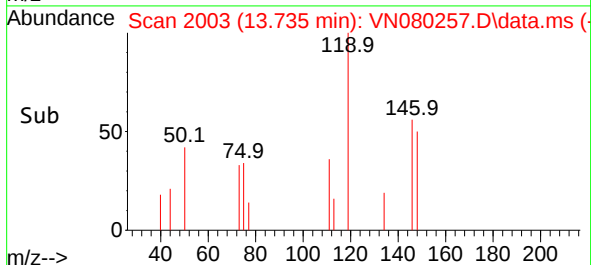
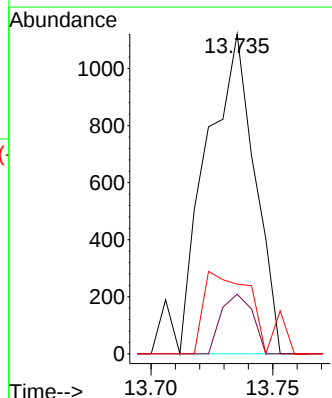
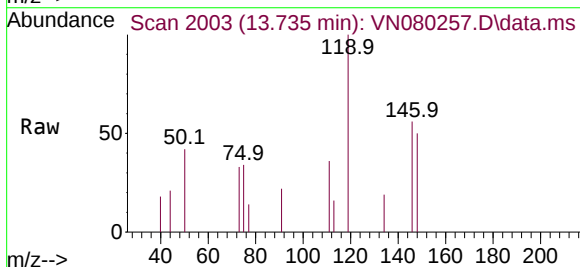
RT: 13.735 min Scan# 2003

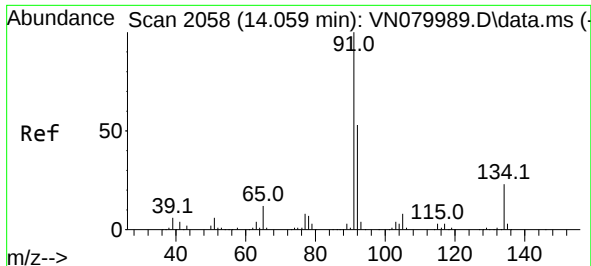
Delta R.T. 0.000 min

Lab File: VN080257.D

Acq: 24 Nov 2023 12:44

Tgt Ion:	119	Resp:	1532
Ion	Ratio	Lower	Upper
119	100		
134	12.2	0.0	52.2
91	18.3	0.0	50.0

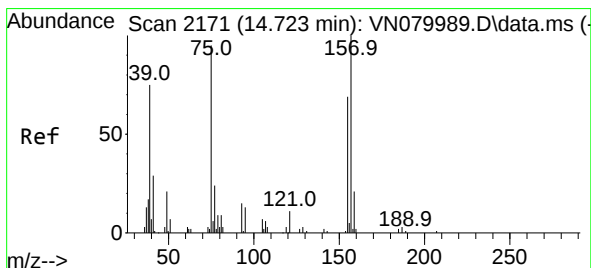
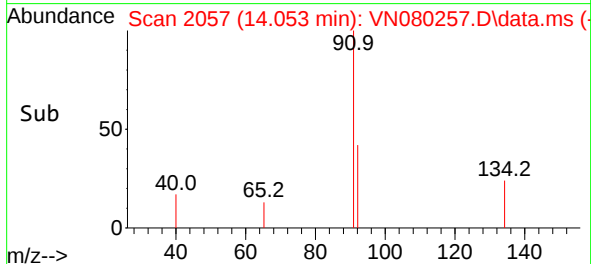
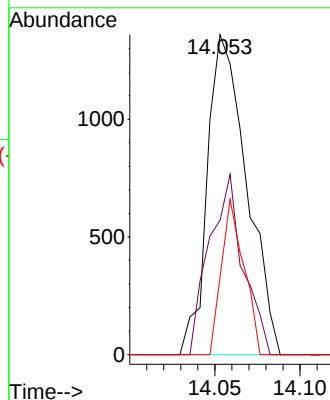
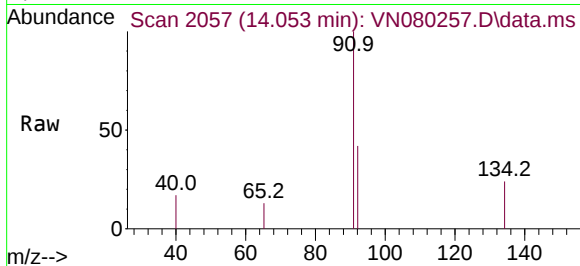




#85
n-Butylbenzene
Concen: 0.358 ug/l
RT: 14.053 min Scan# 2058
Delta R.T. -0.006 min
Lab File: VN080257.D
Acq: 24 Nov 2023 12:44

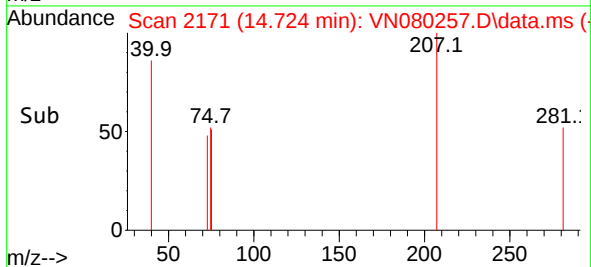
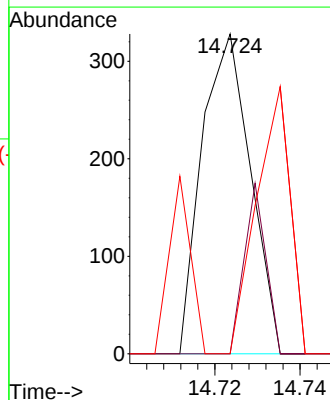
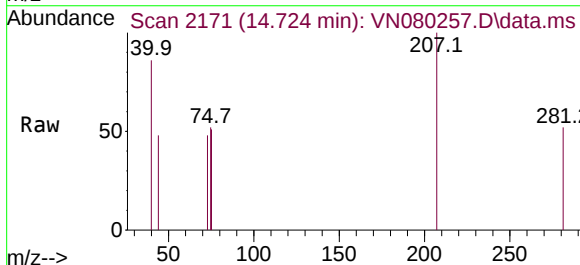
Instrument :
MSVOA_N
ClientSampleId :

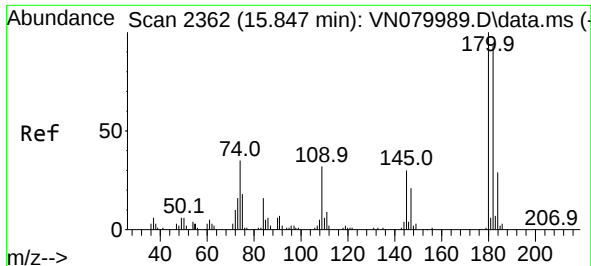
Tgt Ion: 91	Resp: 2183
Ion Ratio	Lower Upper
91 100	
92 48.5	0.0 99.6
134 27.6	0.0 46.2



#88
1,2-Dibromo-3-Chloropropane
Concen: 0.423 ug/l
RT: 14.724 min Scan# 2171
Delta R.T. 0.001 min
Lab File: VN080257.D
Acq: 24 Nov 2023 12:44

Tgt Ion: 75	Resp: 259		
Ion Ratio	Lower	Upper	
75 100			
155 0.0	60.7	91.1#	
157 57.9	76.8	115.2#	

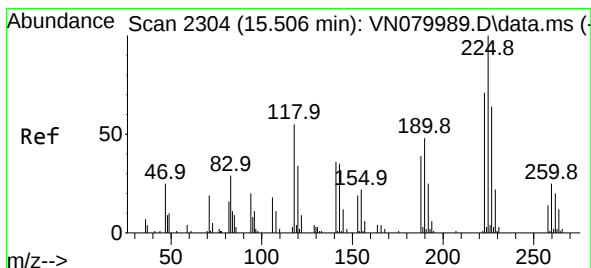
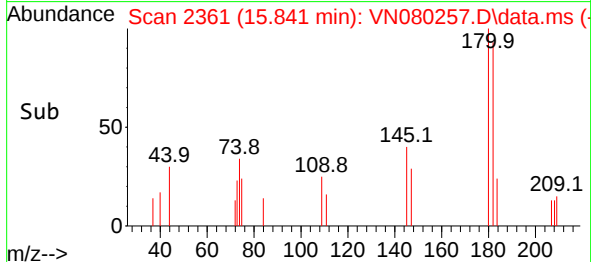
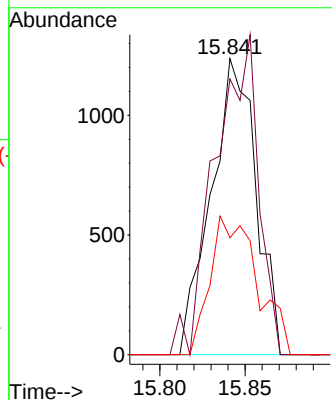
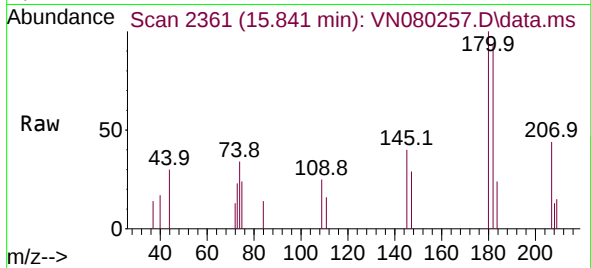




#89
 1,2,4-Trichlorobenzene
 Concen: 1.160 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN080257.D
 Acq: 24 Nov 2023 12:44

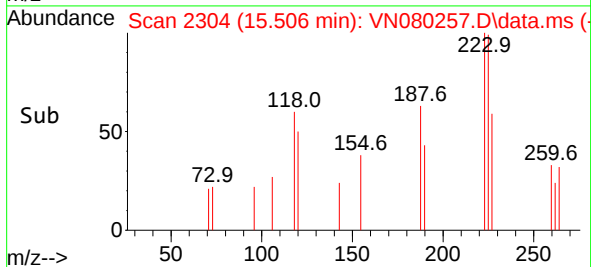
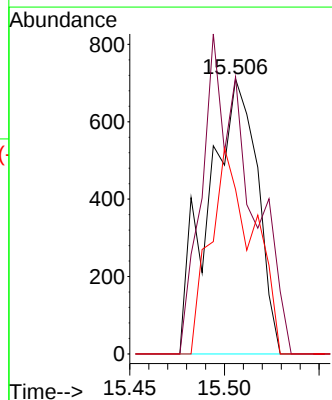
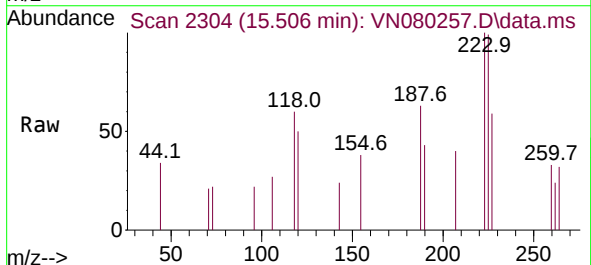
Instrument :
 MSVOA_N
 ClientSampleId :

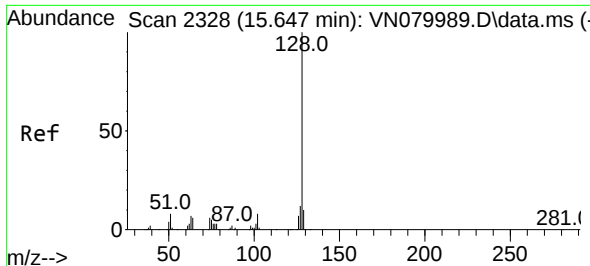
Tgt Ion:180 Resp: 2260
 Ion Ratio Lower Upper
 180 100
 182 2.6 74.2 111.4#
 145 23.8 25.4 38.2#



#90
 Hexachlorobutadiene
 Concen: 1.325 ug/l
 RT: 15.506 min Scan# 2304
 Delta R.T. 0.001 min
 Lab File: VN080257.D
 Acq: 24 Nov 2023 12:44

Tgt Ion:225 Resp: 1273
 Ion Ratio Lower Upper
 225 100
 223 95.3 0.0 126.0
 227 49.5 0.0 127.0

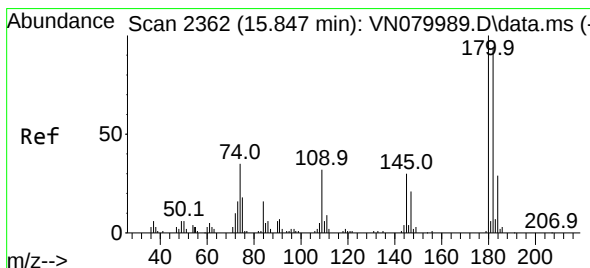
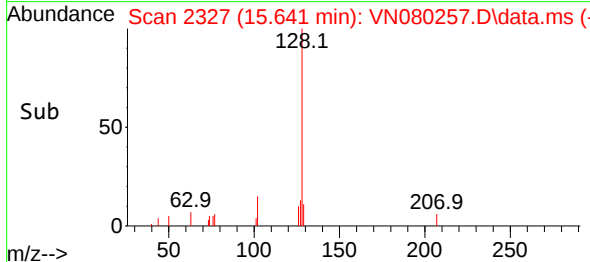
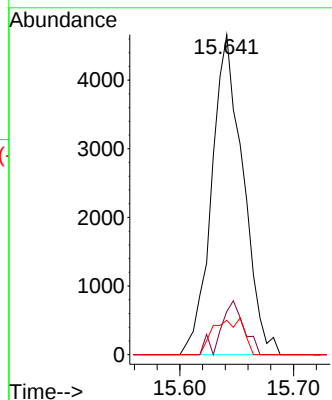
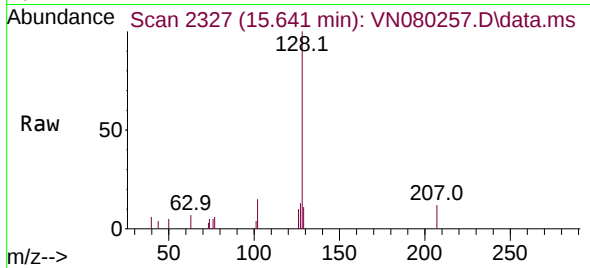




#91
Naphthalene
Concen: 1.428 ug/l
RT: 15.641 min Scan# 2328
Delta R.T. 0.000 min
Lab File: VN080257.D
Acq: 24 Nov 2023 12:44

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 8931
Ion Ratio Lower Upper
128 100
127 11.2 10.9 16.3
129 7.7 8.6 12.8#



#92
1,2,3-Trichlorobenzene
Concen: 1.160 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. -0.006 min
Lab File: VN080257.D
Acq: 24 Nov 2023 12:44

Tgt Ion:180 Resp: 2260
Ion Ratio Lower Upper
180 100
182 2.6 0.0 185.6
145 23.8 0.0 63.6

