

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092624\
 Data File : VN084183.D
 Acq On : 26 Sep 2024 17:52
 Operator : JC\MD
 Sample : P4176-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 27 01:12:15 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 06 23:42:47 2024
 Response via : Initial Calibration

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

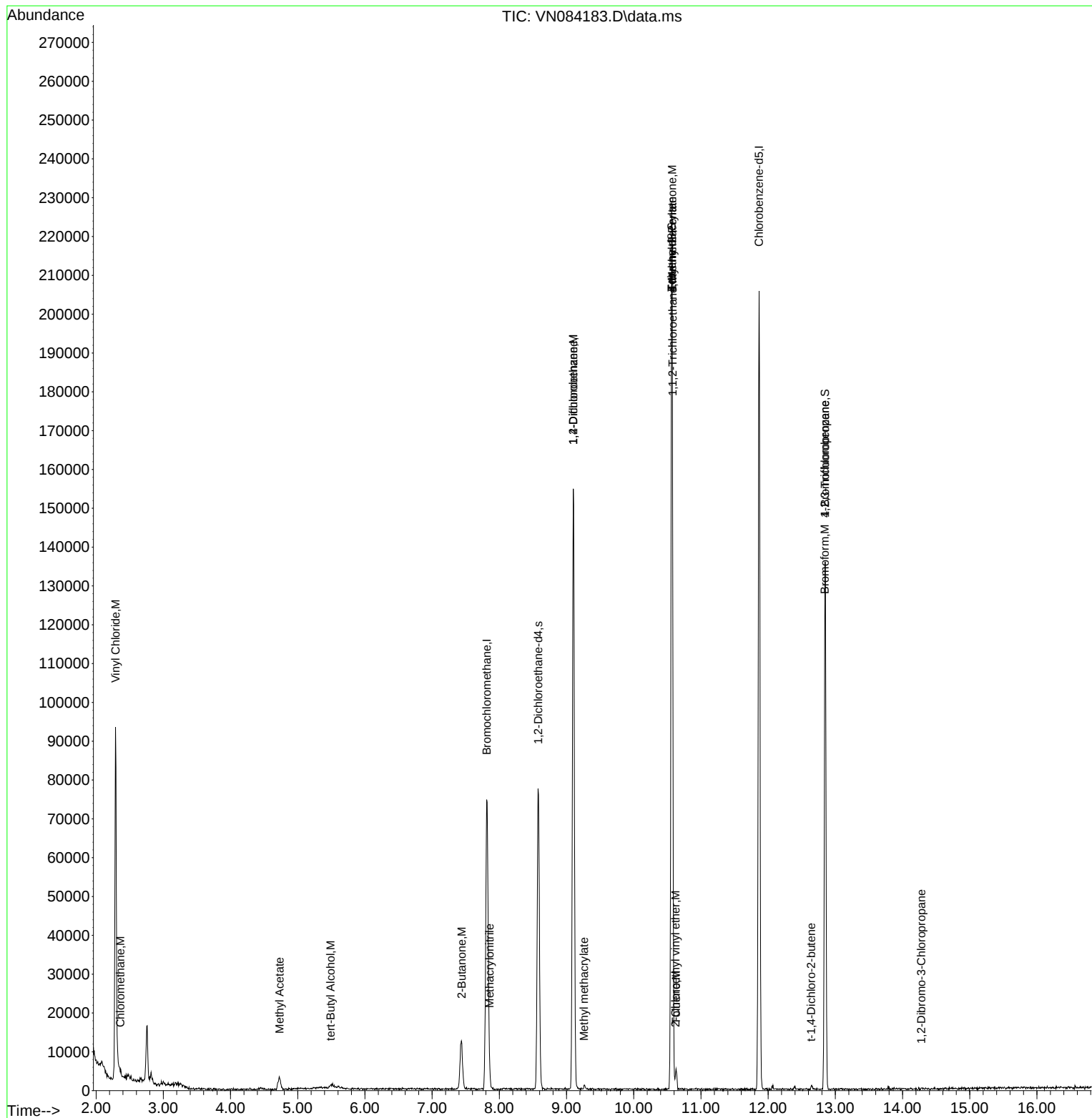
Internal Standards						
1) Bromochloromethane	7.812	128	25753	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	126386	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	115379	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	65025	27.623	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	92.067%
60) 4-Bromofluorobenzene	12.847	95	47392	23.833	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	79.433%
63) Toluene-d8	10.565	98	157425	29.467	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.233%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	516	0.288	ug/l #	43
4) Vinyl Chloride	2.289	62	889	0.483	ug/l #	1
12) Methyl Acetate	4.730	43	971	0.503	ug/l #	40
23) tert-Butyl Alcohol	5.489	59	138	0.481	ug/l #	100
30) 2-Butanone	7.442	43	262	0.277	ug/l #	52
35) Methacrylonitrile	7.853	41	1206	1.135	ug/l #	46
36) 1,2-Dichloroethane	9.100	62	4940	2.185	ug/l #	72
46) Methyl methacrylate	9.259	41	412	0.259	ug/l #	8
50) 1,1,2-Trichloroethane	10.577	97	5237	3.888	ug/l #	1
51) Ethyl methacrylate	10.571	69	754	0.328	ug/l #	53
55) 2-Chloroethyl vinyl ether	10.624	63	238	0.260	ug/l #	1
56) Bromoform	12.841	173	404	0.394	ug/l #	1
58) 4-Methyl-2-Pentanone	10.571	43	430	0.235	ug/l #	1
62) Toluene	10.630	91	3928	0.592	ug/l	93
72) 1,2,3-Trichloropropane	12.847	75	25364	14.946	ug/l	1
77) t-1,4-Dichloro-2-butene	12.641	75	396	0.552	ug/l #	12
88) 1,2-Dibromo-3-Chloropr...	14.276	75	234	0.550	ug/l #	4

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
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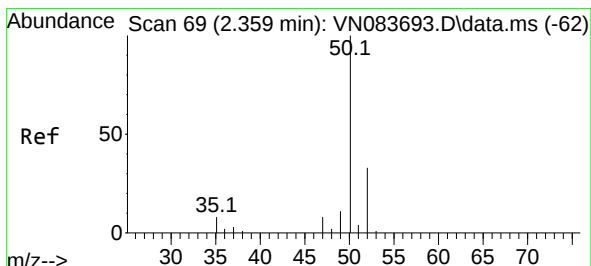
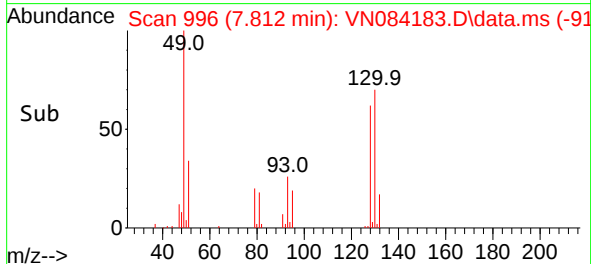
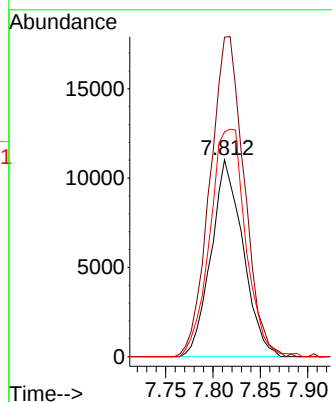
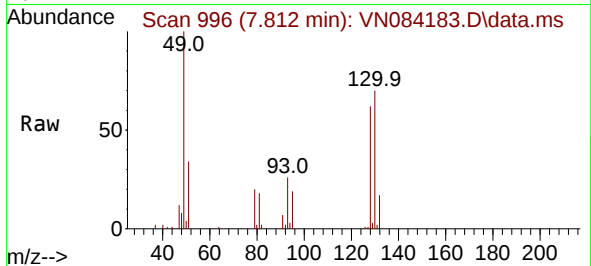




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN084183.D
Acq: 26 Sep 2024 17:52

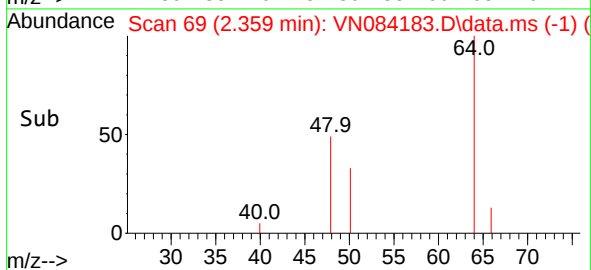
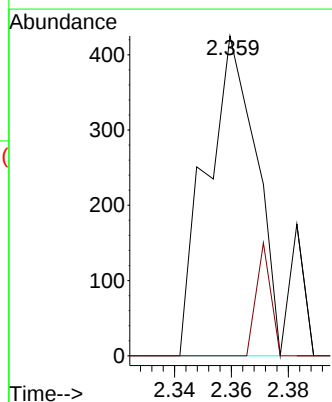
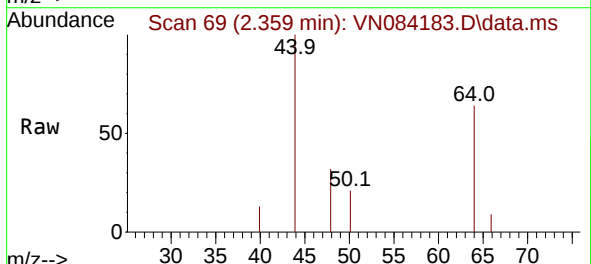
Instrument :
MSVOA_N
ClientSampleId :

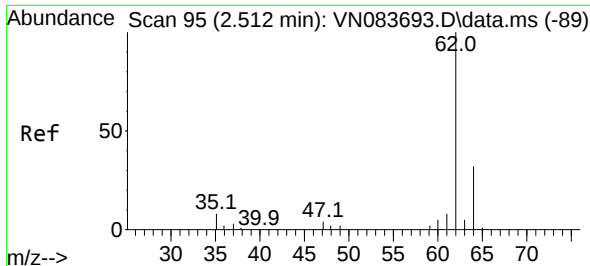
Tgt Ion:128 Resp: 25753
Ion Ratio Lower Upper
128 100
49 174.9 0.0 403.7
130 130.3 0.0 323.3



#3
Chloromethane
Concen: 0.288 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN084183.D
Acq: 26 Sep 2024 17:52

Tgt Ion: 50 Resp: 516
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.0#

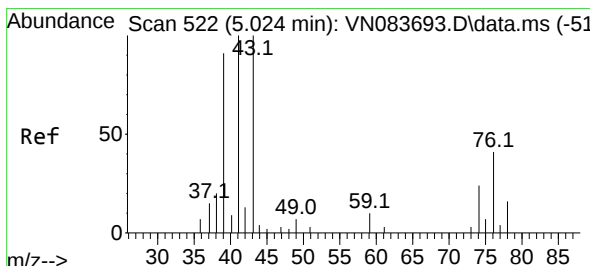
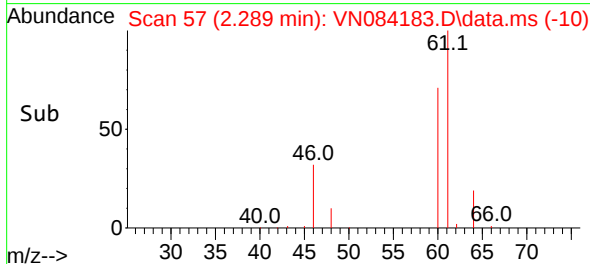
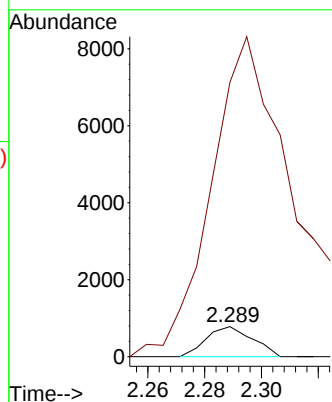
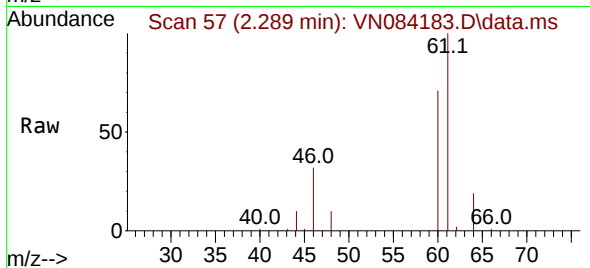




#4
Vinyl Chloride
Concen: 0.483 ug/l
RT: 2.289 min Scan# 51
Delta R.T. -0.223 min
Lab File: VN084183.D
Acq: 26 Sep 2024 17:52

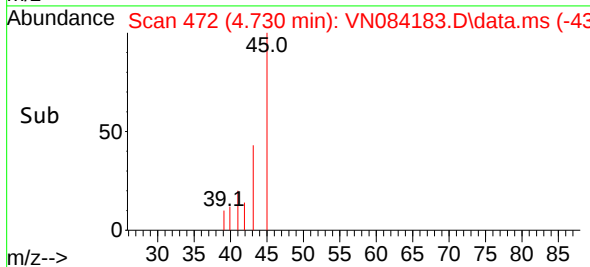
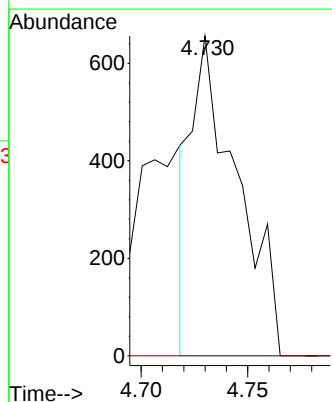
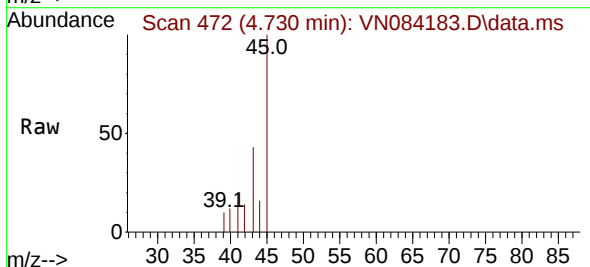
Instrument :
MSVOA_N
ClientSampleId :

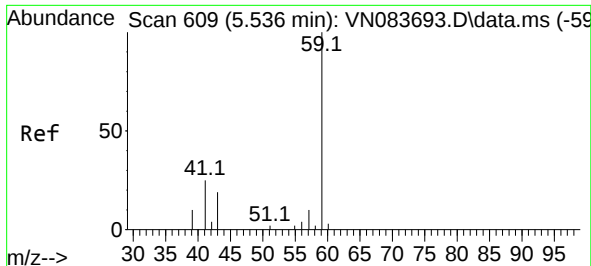
Tgt Ion: 62 Resp: 889
Ion Ratio Lower Upper
62 100
64 753.9 24.1 36.1#



#12
Methyl Acetate
Concen: 0.503 ug/l
RT: 4.730 min Scan# 472
Delta R.T. -0.294 min
Lab File: VN084183.D
Acq: 26 Sep 2024 17:52

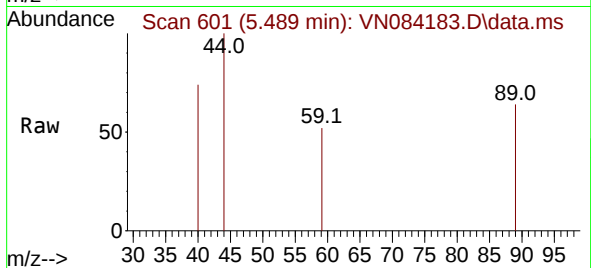
Tgt Ion: 43 Resp: 971
Ion Ratio Lower Upper
43 100
74 0.0 27.7 41.5#



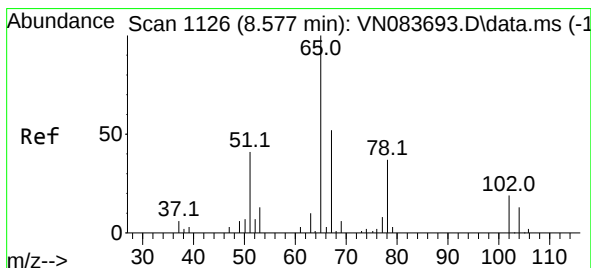
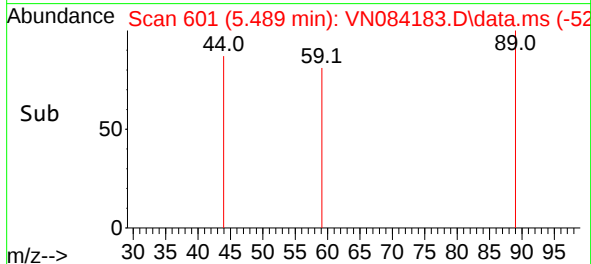
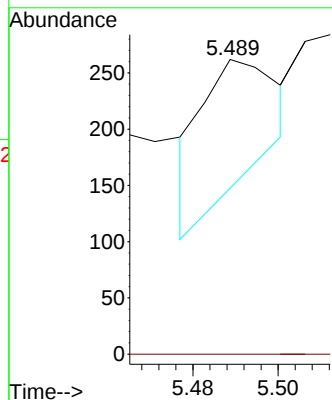


#23
tert-Butyl Alcohol
Concen: 0.481 ug/l
RT: 5.489 min Scan# 609
Delta R.T. -0.047 min
Lab File: VN084183.D
Acq: 26 Sep 2024 17:52

Instrument :
MSVOA_N
ClientSampleId :

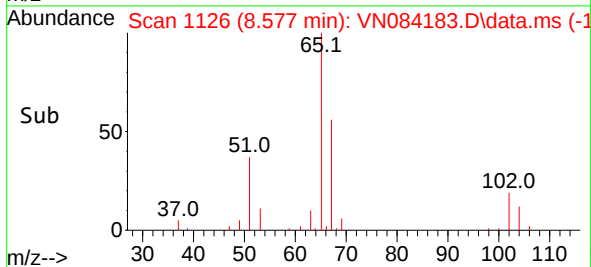
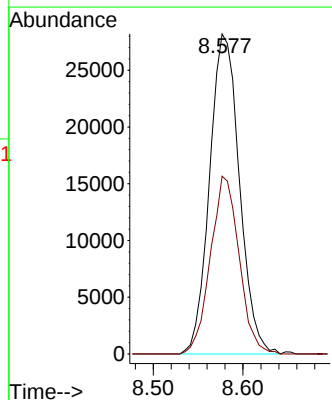
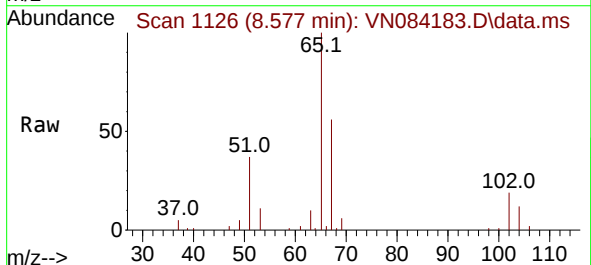


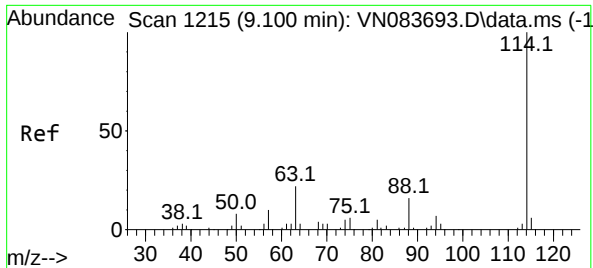
Tgt Ion: 59 Resp: 138
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 27.623 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN084183.D
Acq: 26 Sep 2024 17:52

Tgt Ion: 65 Resp: 65025
Ion Ratio Lower Upper
65 100
67 53.4 43.2 64.8

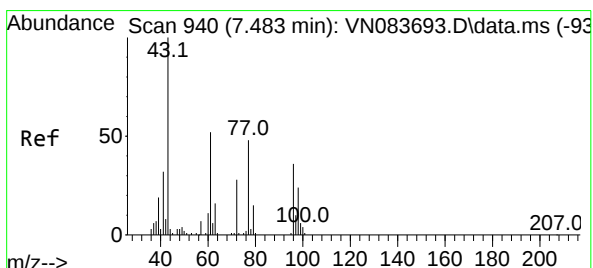
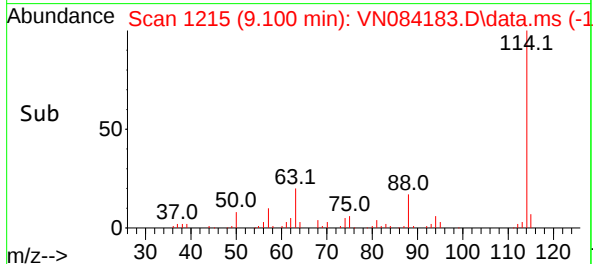
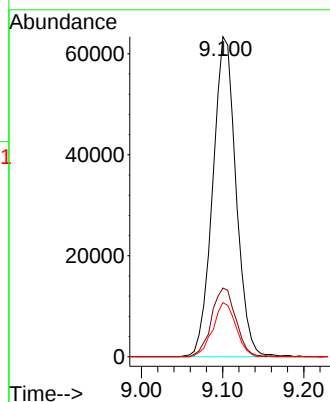
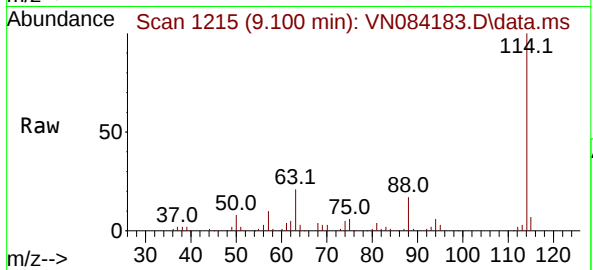




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 114
Delta R.T. 0.000 min
Lab File: VN084183.D
Acq: 26 Sep 2024 17:52

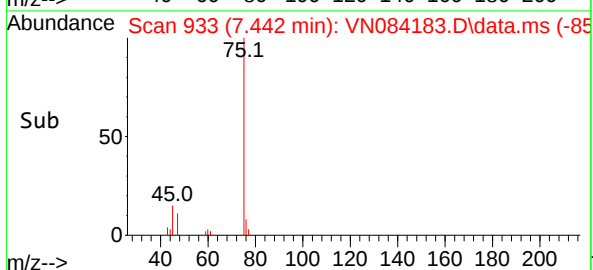
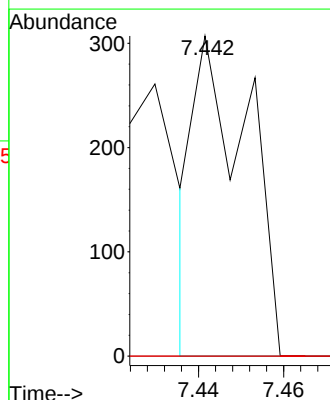
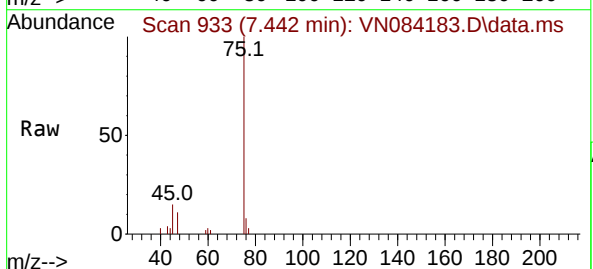
Instrument :
MSVOA_N
ClientSampleId :

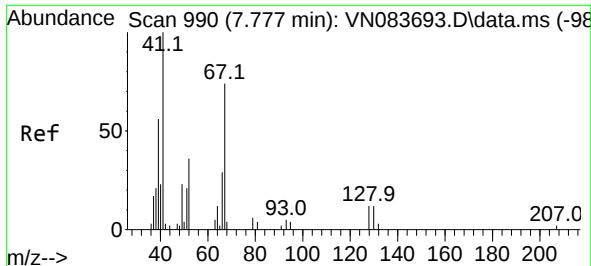
Tgt Ion:114 Resp: 126386
Ion Ratio Lower Upper
114 100
63 22.3 15.9 23.9
88 16.6 12.7 19.1



#30
2-Butanone
Concen: 0.277 ug/l
RT: 7.442 min Scan# 933
Delta R.T. -0.041 min
Lab File: VN084183.D
Acq: 26 Sep 2024 17:52

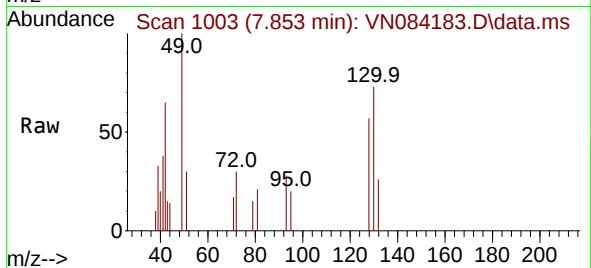
Tgt Ion: 43 Resp: 262
Ion Ratio Lower Upper
43 100
57 0.0 6.7 10.1#
72 0.0 24.0 36.0#



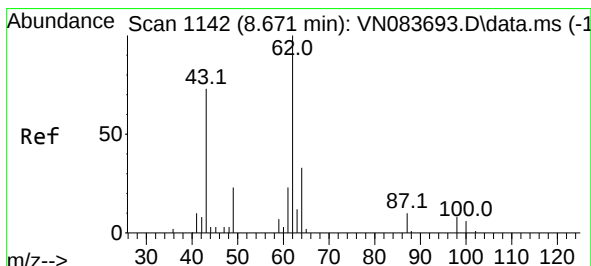
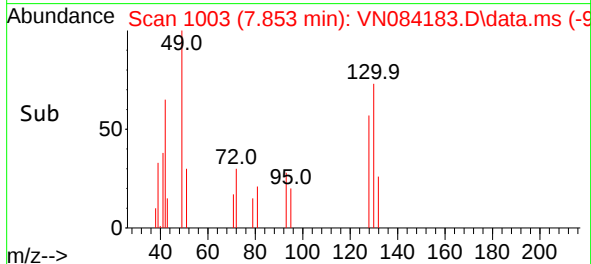
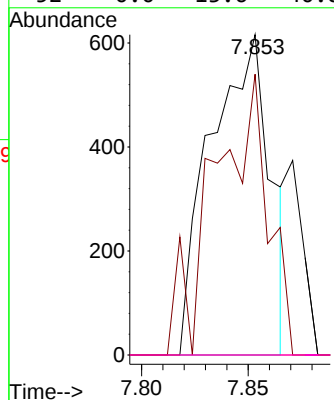


#35
Methacrylonitrile
Concen: 1.135 ug/l
RT: 7.853 min Scan# 11206
Delta R.T. 0.077 min
Lab File: VN084183.D
Acq: 26 Sep 2024 17:52

Instrument :
MSVOA_N
ClientSampleId :

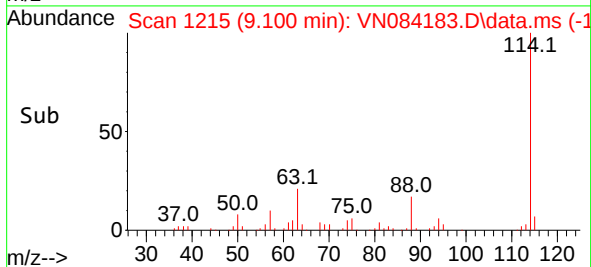
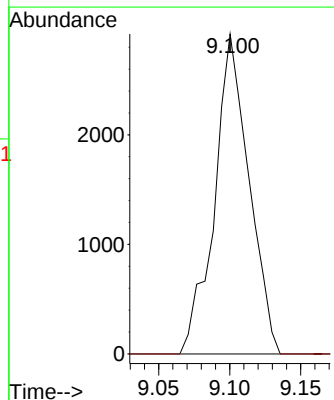
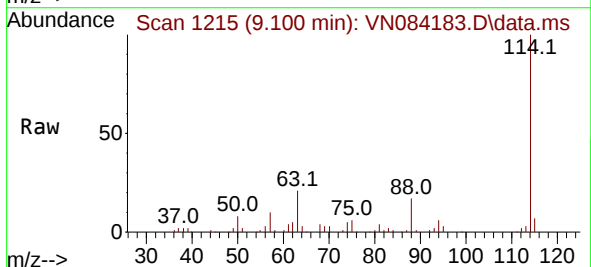


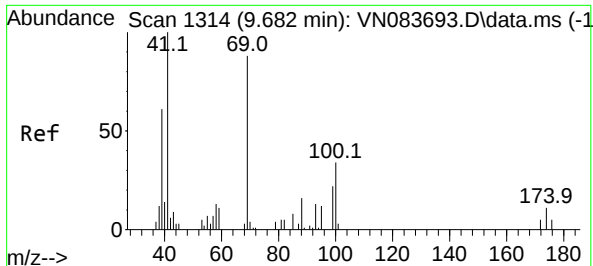
Tgt Ion: 41 Resp: 1206
Ion Ratio Lower Upper
41 100
39 50.8 25.3 75.9
67 0.0 38.7 116.1#
52 0.0 13.6 40.8#



#36
1,2-Dichloroethane
Concen: 2.185 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.430 min
Lab File: VN084183.D
Acq: 26 Sep 2024 17:52

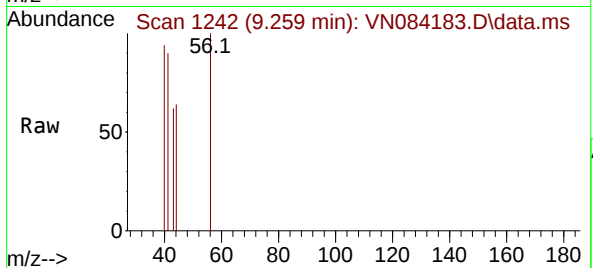
Tgt Ion: 62 Resp: 4940
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.4#



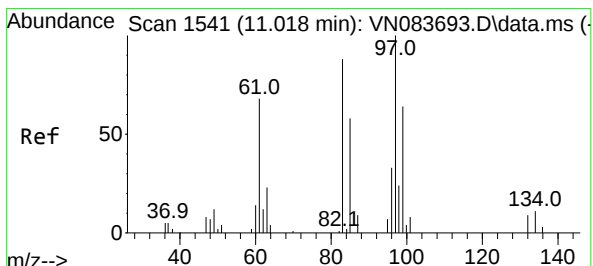
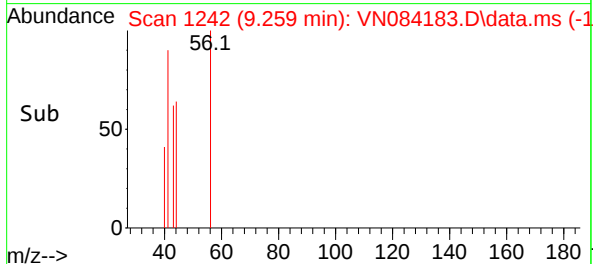
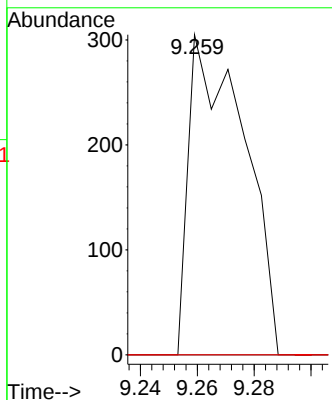


#46
Methyl methacrylate
Concen: 0.259 ug/l
RT: 9.259 min Scan# 11
Delta R.T. -0.423 min
Lab File: VN084183.D
Acq: 26 Sep 2024 17:52

Instrument :
MSVOA_N
ClientSampleId :

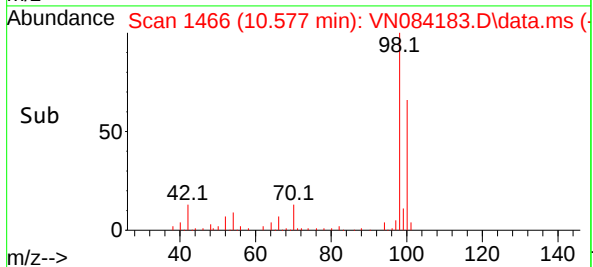
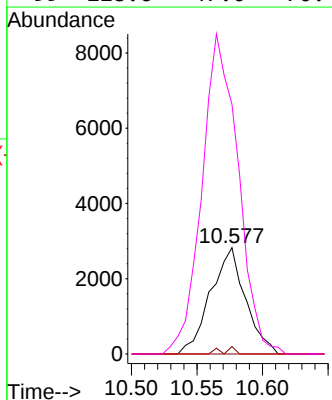
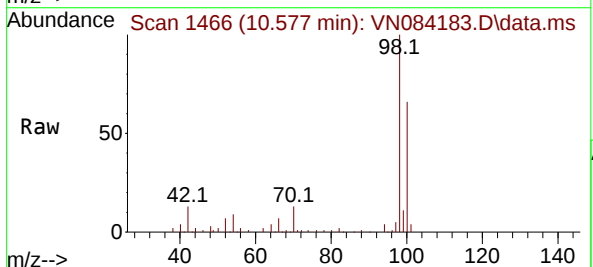


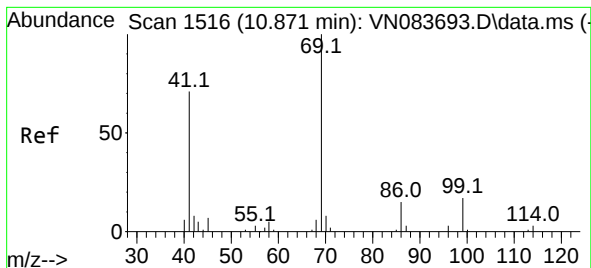
Tgt Ion: 41 Resp: 412
Ion Ratio Lower Upper
41 100
69 0.0 51.1 153.3#
39 0.0 25.8 77.3#



#50
1,1,2-Trichloroethane
Concen: 3.888 ug/l
RT: 10.577 min Scan# 1466
Delta R.T. -0.441 min
Lab File: VN084183.D
Acq: 26 Sep 2024 17:52

Tgt Ion: 97 Resp: 5237
Ion Ratio Lower Upper
97 100
83 7.0 68.1 102.1#
85 0.0 41.8 62.6#
99 228.6 47.0 70.4#





#51

Ethyl methacrylate

Concen: 0.328 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.300 min

Lab File: VN084183.D

Acq: 26 Sep 2024 17:52

Instrument :

MSVOA_N

ClientSampleId :

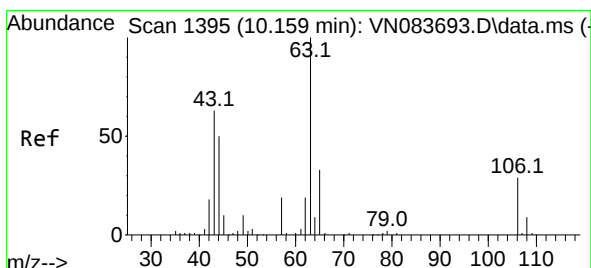
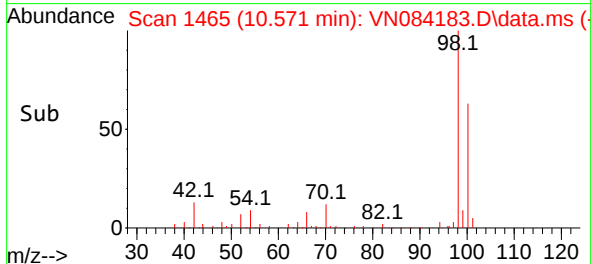
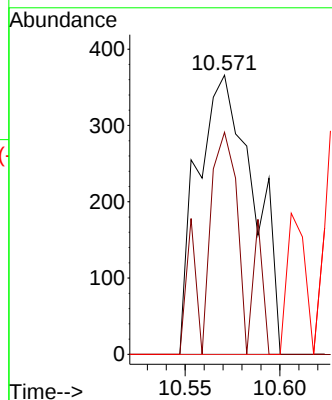
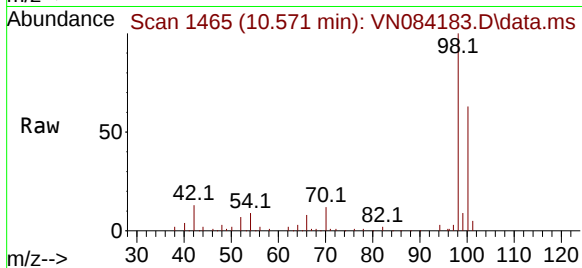
Tgt Ion: 69 Resp: 754

Ion Ratio Lower Upper

69 100

41 79.5 25.5 76.5#

39 0.0 16.0 47.9#



#55

2-Chloroethyl vinyl ether

Concen: 0.260 ug/l

RT: 10.624 min Scan# 1474

Delta R.T. 0.465 min

Lab File: VN084183.D

Acq: 26 Sep 2024 17:52

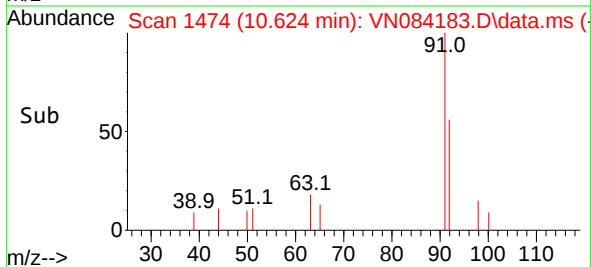
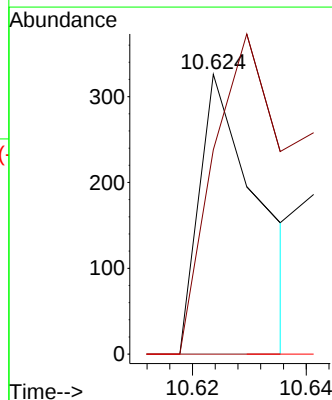
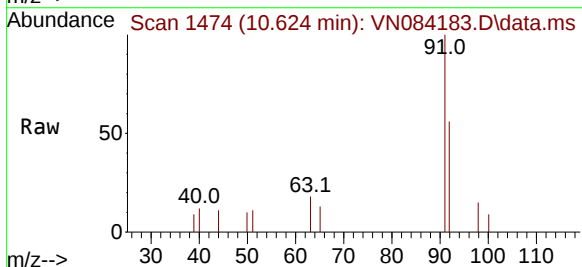
Tgt Ion: 63 Resp: 238

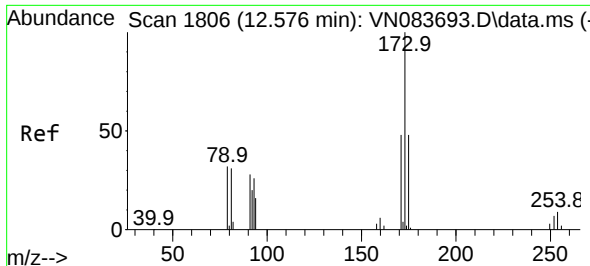
Ion Ratio Lower Upper

63 100

65 125.6 26.2 39.2#

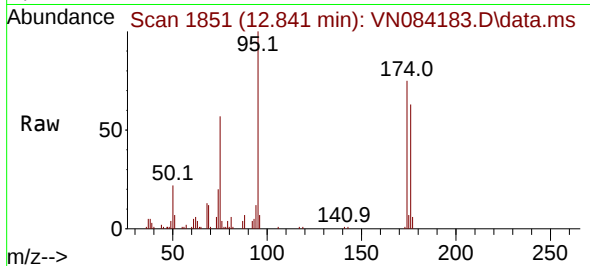
106 0.0 23.8 35.8#



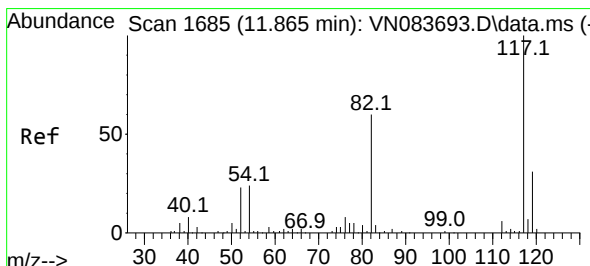
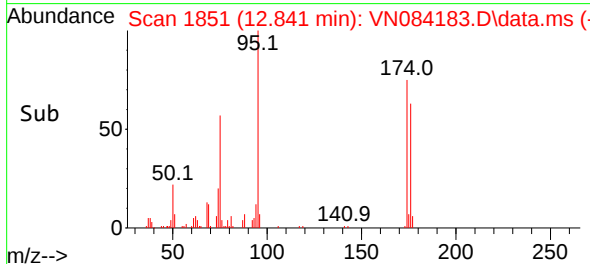
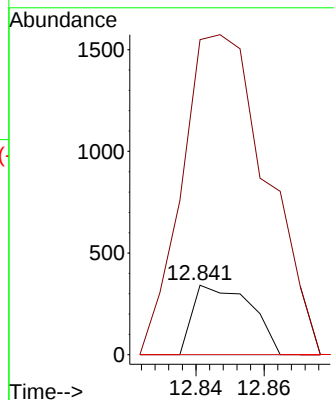


#56
Bromoform
Concen: 0.394 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN084183.D
Acq: 26 Sep 2024 17:52

Instrument :
MSVOA_N
ClientSampleId :

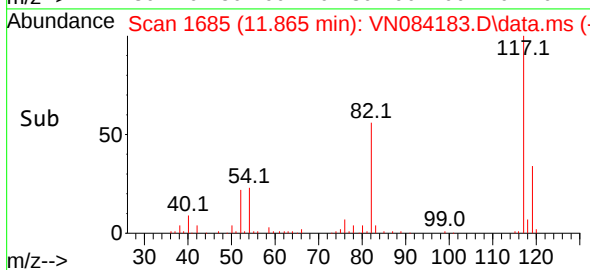
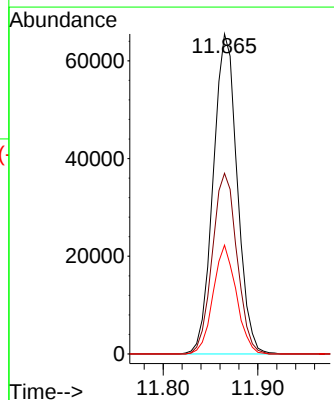
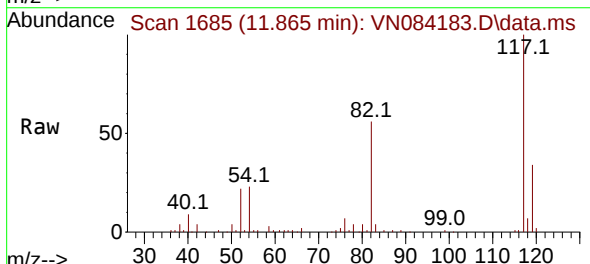


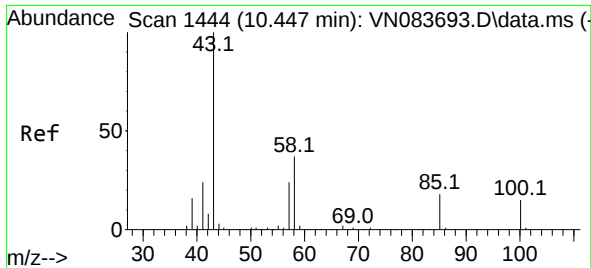
Tgt Ion:173 Resp: 404
Ion Ratio Lower Upper
173 100
175 672.8 40.0 60.0#
254 0.0 8.3 12.5#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN084183.D
Acq: 26 Sep 2024 17:52

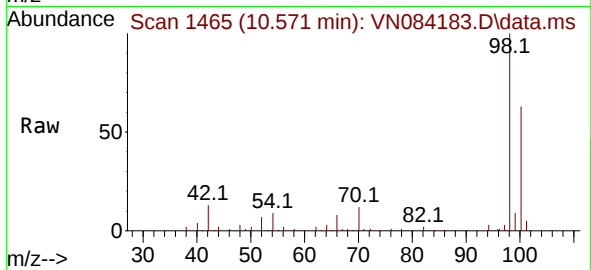
Tgt Ion:117 Resp: 115379
Ion Ratio Lower Upper
117 100
82 57.9 46.6 69.8
119 32.8 25.4 38.2



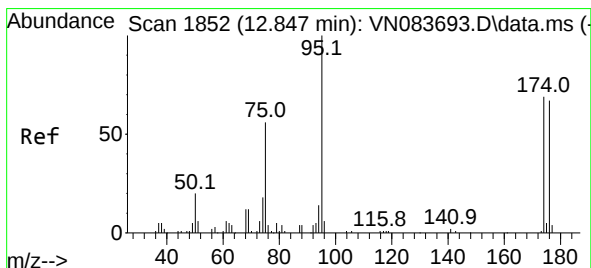
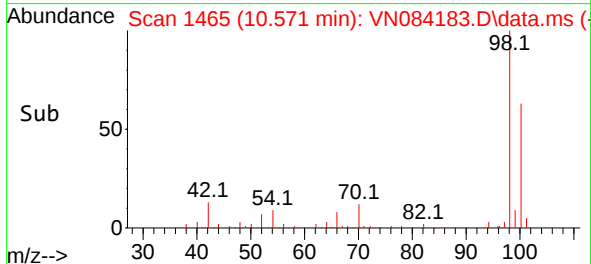
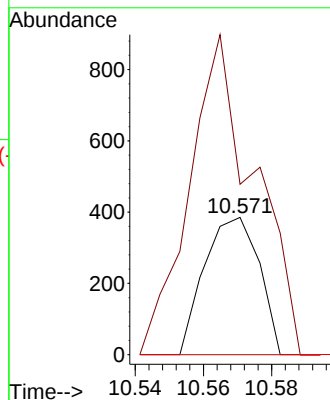


#58
4-Methyl-2-Pentanone
Concen: 0.235 ug/l
RT: 10.571 min Scan# 1444
Delta R.T. 0.124 min
Lab File: VN084183.D
Acq: 26 Sep 2024 17:52

Instrument :
MSVOA_N
ClientSampleId :

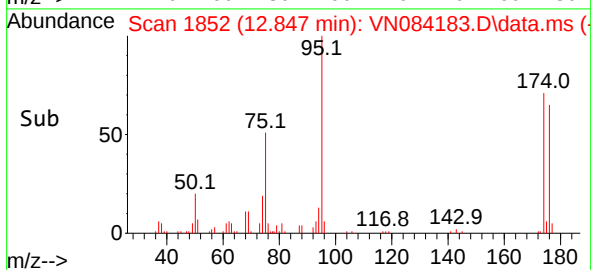
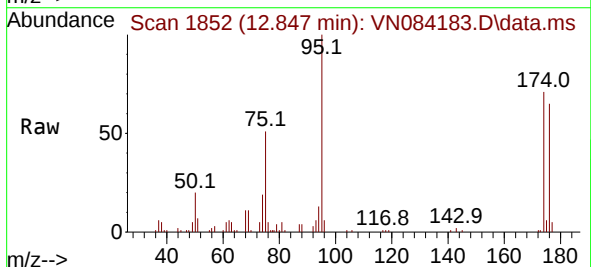
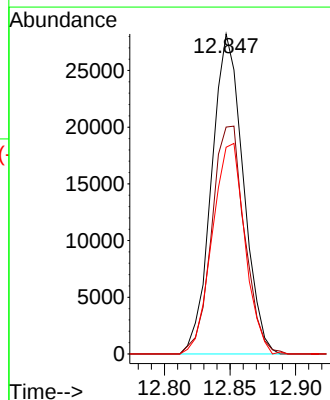


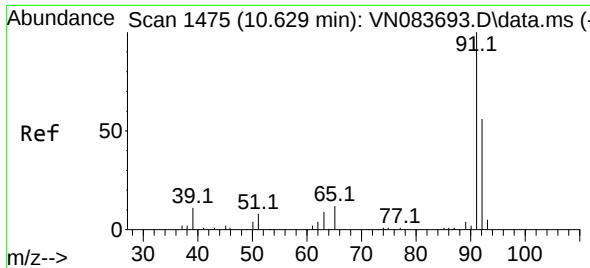
Tgt Ion: 43 Resp: 430
Ion Ratio Lower Upper
43 100
58 276.3 36.5 54.7#
85 0.0 19.5 29.3#



#60
4-Bromofluorobenzene
Concen: 23.833 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084183.D
Acq: 26 Sep 2024 17:52

Tgt Ion: 95 Resp: 47392
Ion Ratio Lower Upper
95 100
174 73.9 60.5 90.7
176 67.5 57.8 86.6

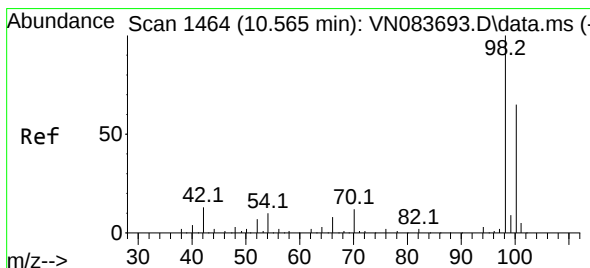
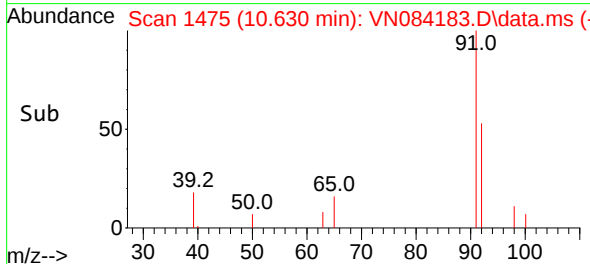
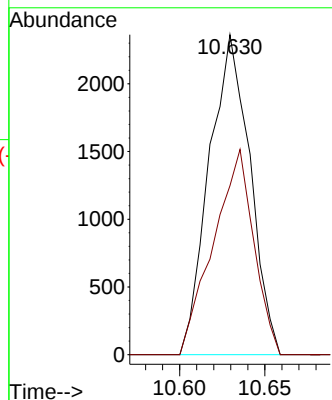
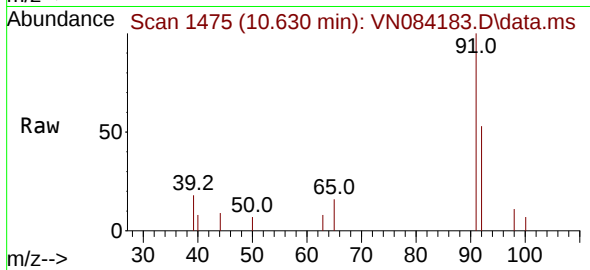




#62
Toluene
Concen: 0.592 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN084183.D
Acq: 26 Sep 2024 17:52

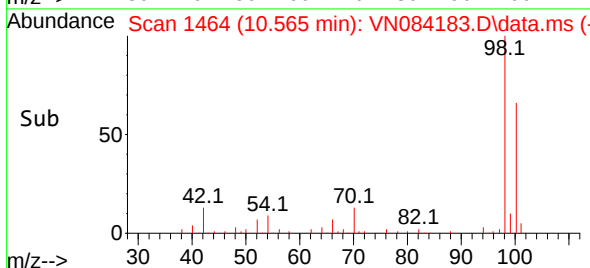
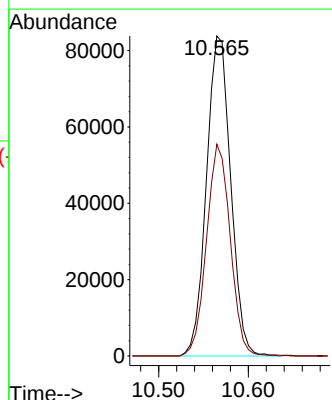
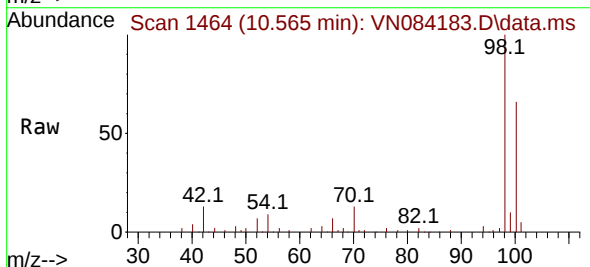
Instrument :
MSVOA_N
ClientSampleId :

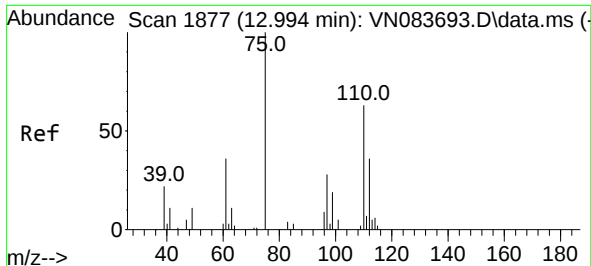
Tgt Ion: 91 Resp: 3928
Ion Ratio Lower Upper
91 100
92 63.6 46.5 69.7



#63
Toluene-d8
Concen: 29.467 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084183.D
Acq: 26 Sep 2024 17:52

Tgt Ion: 98 Resp: 157425
Ion Ratio Lower Upper
98 100
100 64.7 52.7 79.1

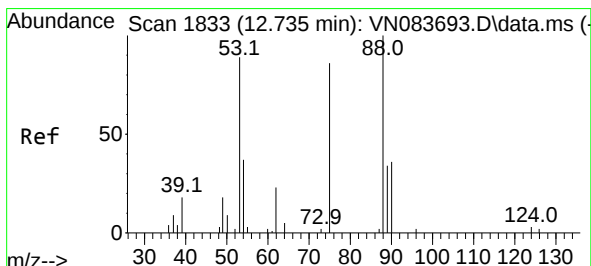
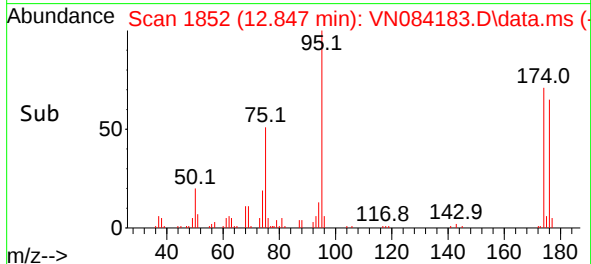
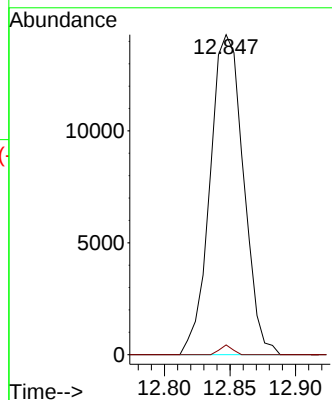
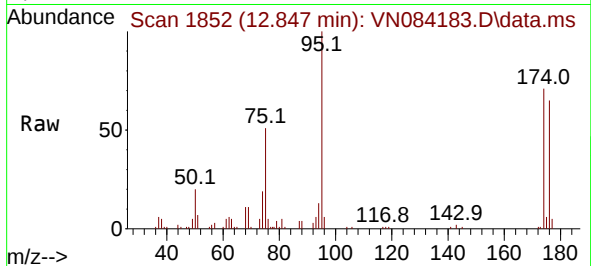




#72
1,2,3-Trichloropropane
Concen: 14.946 ug/l
RT: 12.847 min Scan# 1817
Delta R.T. -0.147 min
Lab File: VN084183.D
Acq: 26 Sep 2024 17:52

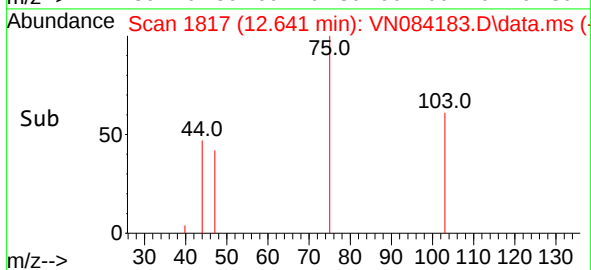
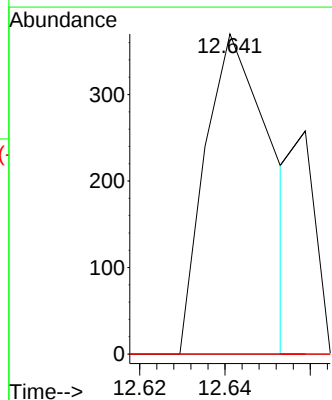
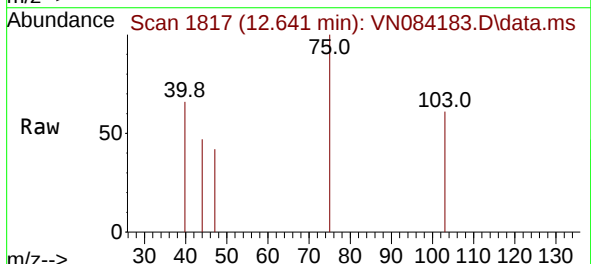
Instrument :
MSVOA_N
ClientSampleId :

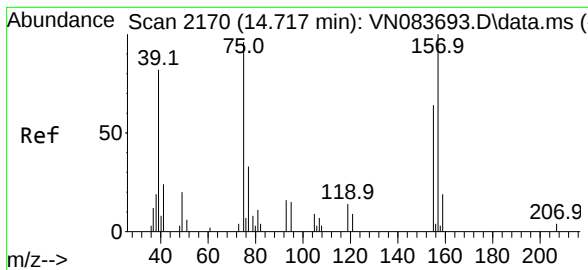
Tgt Ion: 75 Resp: 25364
Ion Ratio Lower Upper
75 100
77 1.1 0.0 367.6



#77
t-1,4-Dichloro-2-butene
Concen: 0.552 ug/l
RT: 12.641 min Scan# 1817
Delta R.T. -0.094 min
Lab File: VN084183.D
Acq: 26 Sep 2024 17:52

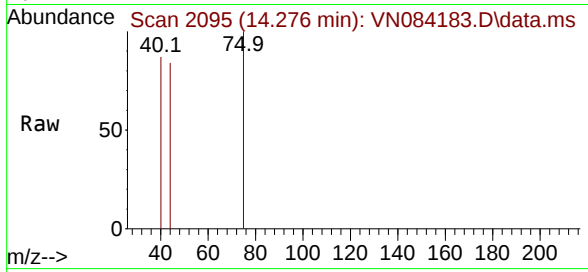
Tgt Ion: 75 Resp: 396
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#





#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.550 ug/l
 RT: 14.276 min Scan# 20
 Delta R.T. -0.441 min
 Lab File: VN084183.D
 Acq: 26 Sep 2024 17:52

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 234
 Ion Ratio Lower Upper
 75 100
 155 0.0 61.7 92.5#
 157 0.0 83.6 125.4#

