

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050624\
 Data File : VN082006.D
 Acq On : 06 May 2024 13:46
 Operator : JC\MD
 Sample : P2382-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 07 00:28:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 27 04:37:27 2024
 Response via : Initial Calibration

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

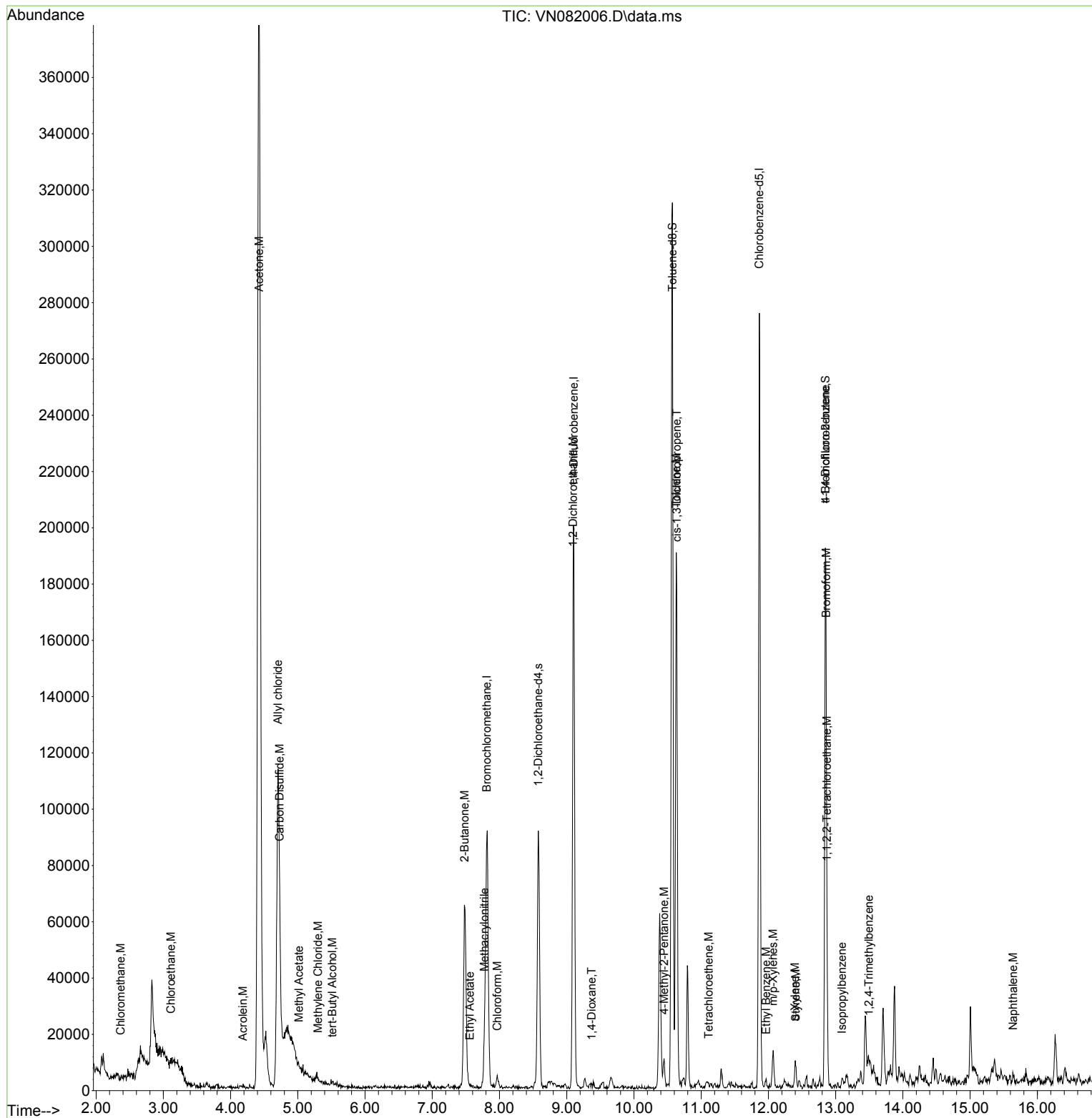
Internal Standards						
1) Bromochloromethane	7.812	128	28828	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	168545	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	147527	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	72090	29.868	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.567%		
60) 4-Bromofluorobenzene	12.847	95	66484	27.079	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	90.267%		
63) Toluene-d8	10.571	98	216732	30.935	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	103.100%		
Target Compounds					Qvalue	
3) Chloromethane	2.365	50	511	0.269	ug/l #	43
6) Chloroethane	3.112	64	1525	1.502	ug/l	98
12) Methyl Acetate	5.018	43	682	0.310	ug/l #	40
13) Acrolein	4.183	56	276	0.589	ug/l	84
15) Acetone	4.424	58	244525	1085.279	ug/l	86
16) Carbon Disulfide	4.730	76	8622	1.769	ug/l	96
17) Allyl chloride	4.706	41	18583	6.016	ug/l	98
18) Methylene Chloride	5.300	84	880	0.440	ug/l #	28
23) tert-Butyl Alcohol	5.512	59	602	1.454	ug/l #	100
25) Chloroform	7.965	83	3255	0.935	ug/l #	83
30) 2-Butanone	7.483	43	107070	82.780	ug/l #	72
35) Methacrylonitrile	7.777	41	3640	2.224	ug/l #	38
36) 1,2-Dichloroethane	9.094	62	6992	2.602	ug/l #	72
43) Ethyl Acetate	7.559	43	1307	0.463	ug/l #	86
45) 1,4-Dioxane	9.371	88	128	3.188	ug/l #	1
49) cis-1,3-Dichloropropene	10.635	75	1111	0.344	ug/l #	1
56) Bromoform	12.859	173	319	0.269	ug/l #	1
58) 4-Methyl-2-Pentanone	10.447	43	6903	2.410	ug/l #	84
61) Tetrachloroethene	11.112	164	349	0.213	ug/l #	18
62) Toluene	10.630	91	141161	17.006	ug/l	100
66) Ethyl Benzene	11.965	91	2457	0.270	ug/l	97
67) m/p-Xylenes	12.071	106	2726	0.808	ug/l #	1
68) o-Xylene	12.394	106	1510	0.452	ug/l	78
69) Styrene	12.406	104	1556	0.278	ug/l #	69
70) Isopropylbenzene	13.094	105	2563	0.302	ug/l	91
71) 1,1,2,2-Tetrachloroethane	12.871	83	831	0.341	ug/l #	25
77) t-1,4-Dichloro-2-butene	12.847	75	38357	37.788	ug/l #	12
80) 1,2,4-Trimethylbenzene	13.494	105	4076	0.591	ug/l	73
91) Naphthalene	15.641	128	2245	0.330	ug/l #	91

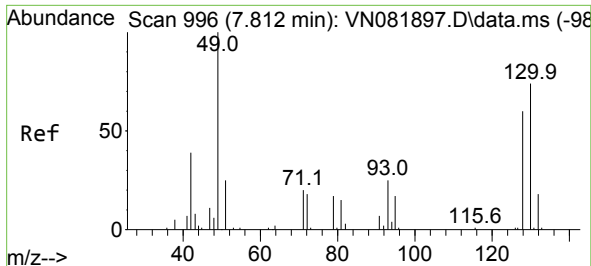
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050624\
Data File : VN082006.D
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MSVOA_N
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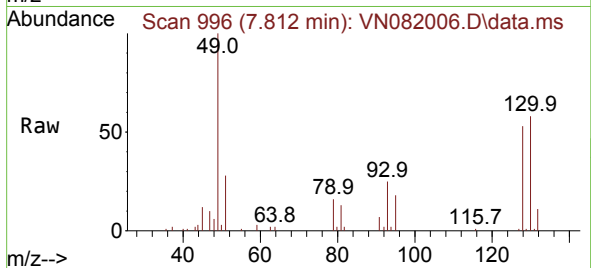
Quant Time: May 07 00:28:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 27 04:37:27 2024
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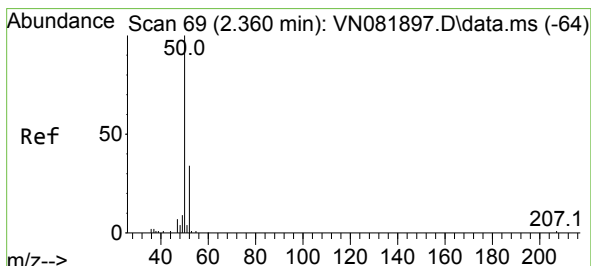
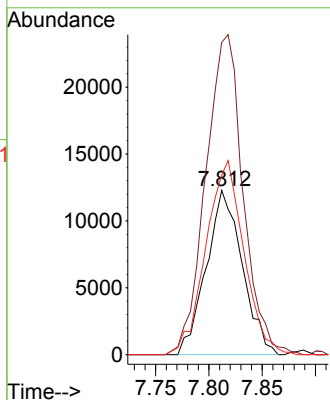
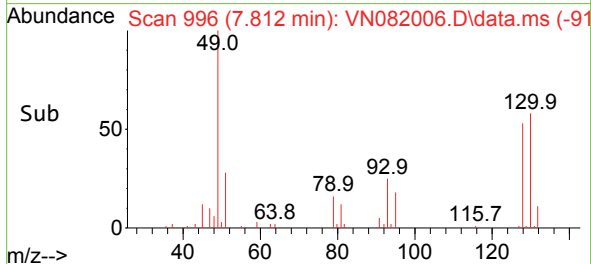


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

Instrument :
MSVOA_N
ClientSampleId :

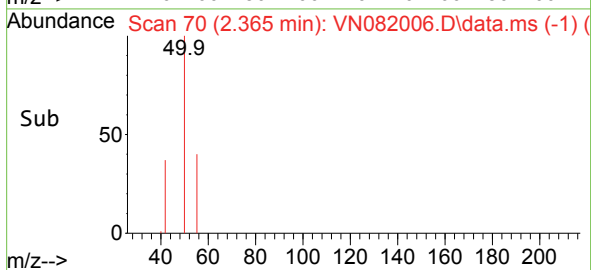
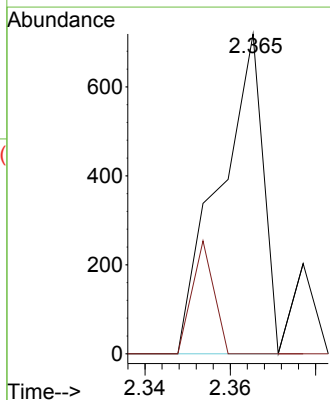
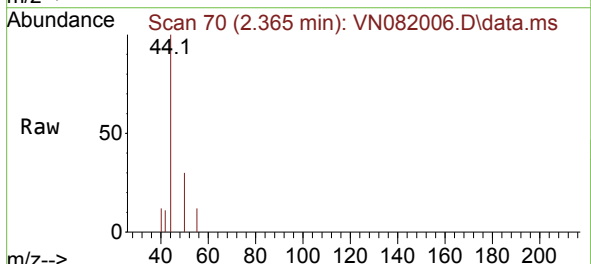


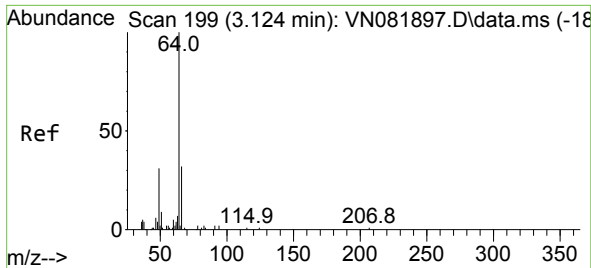
Tgt Ion:128 Resp: 28828
Ion Ratio Lower Upper
128 100
49 202.4 0.0 403.7
130 125.0 0.0 323.3



#3
Chloromethane
Concen: 0.269 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

Tgt Ion: 50 Resp: 511
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.0#

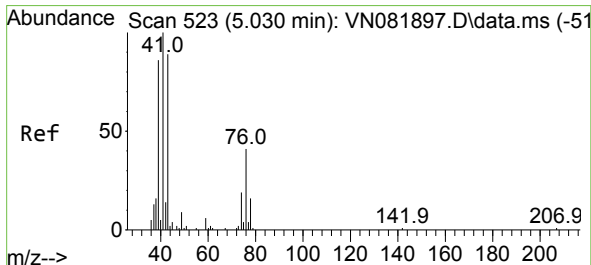
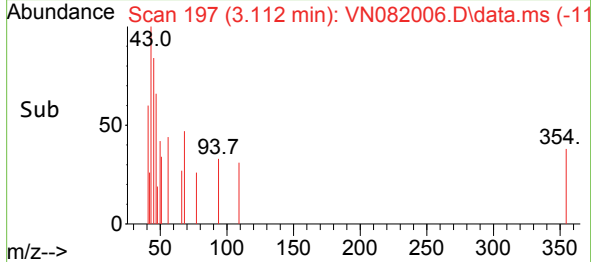
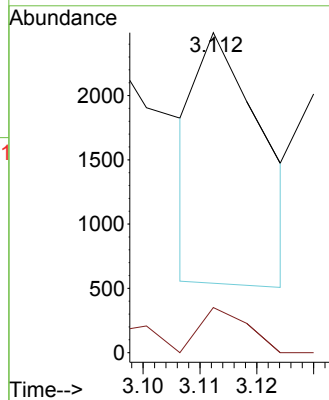
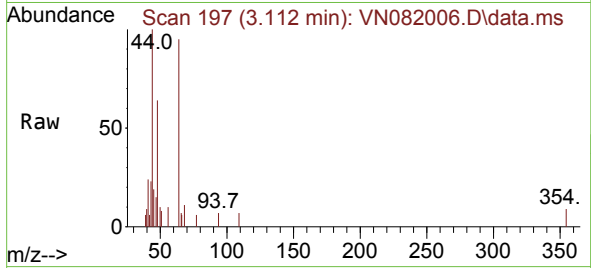




#6
Chloroethane
Concen: 1.502 ug/l
RT: 3.112 min Scan# 19
Delta R.T. -0.012 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

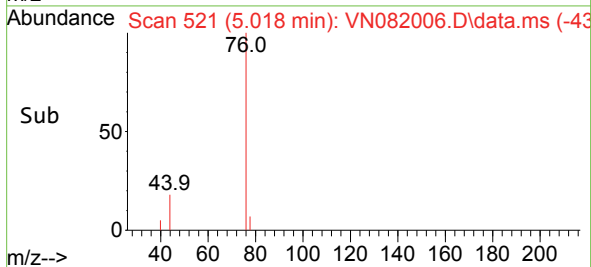
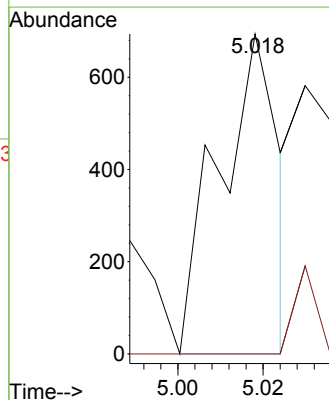
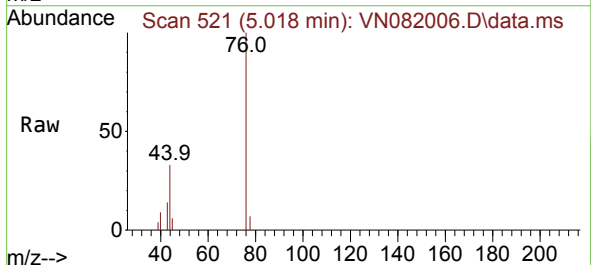
Instrument :
MSVOA_N
ClientSampleId :

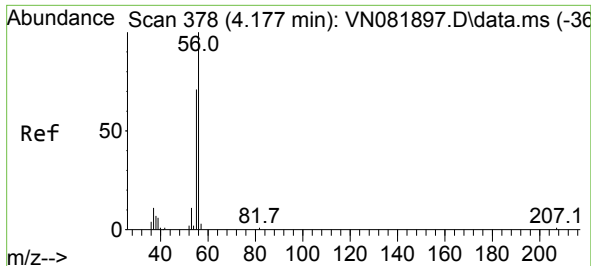
Tgt Ion: 64 Resp: 1525
Ion Ratio Lower Upper
64 100
66 34.5 26.7 40.1



#12
Methyl Acetate
Concen: 0.310 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.012 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

Tgt Ion: 43 Resp: 682
Ion Ratio Lower Upper
43 100
74 0.0 27.7 41.5#

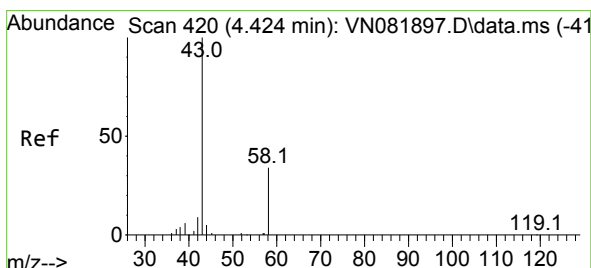
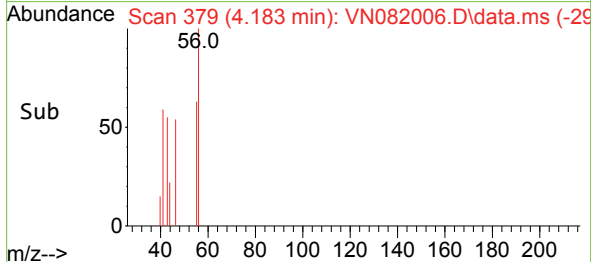
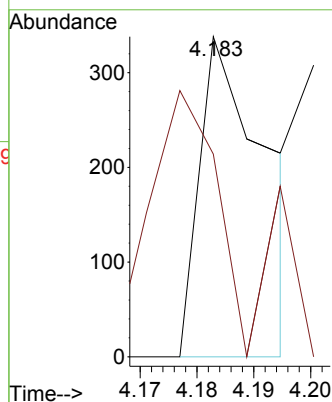
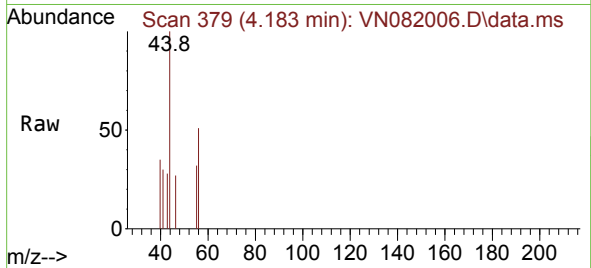




#13
Acrolein
Concen: 0.589 ug/l
RT: 4.183 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

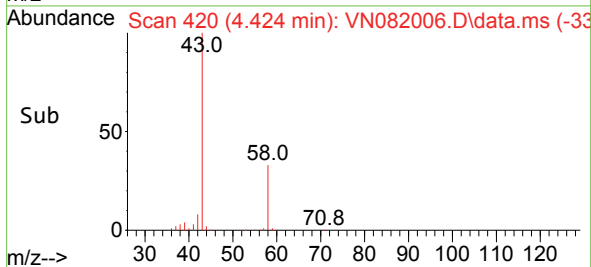
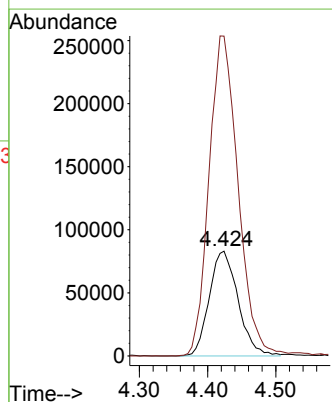
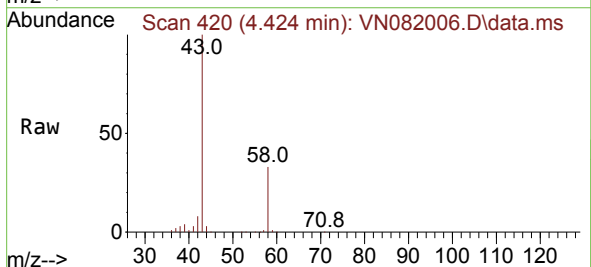
Instrument :
MSVOA_N
ClientSampleId :

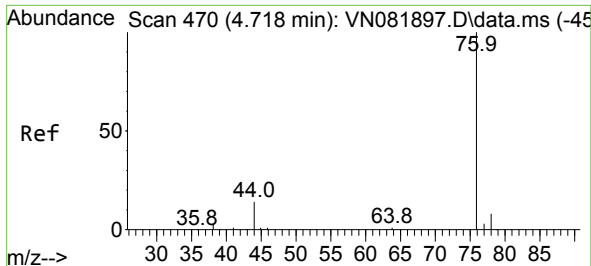
Tgt Ion: 56 Resp: 276
Ion Ratio Lower Upper
56 100
55 82.6 55.5 83.3



#15
Acetone
Concen: 1085.279 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

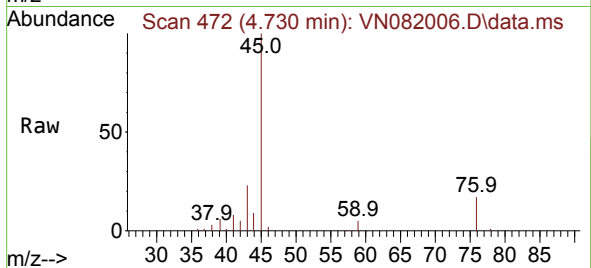
Tgt Ion: 58 Resp: 244525
Ion Ratio Lower Upper
58 100
43 305.0 223.1 334.7



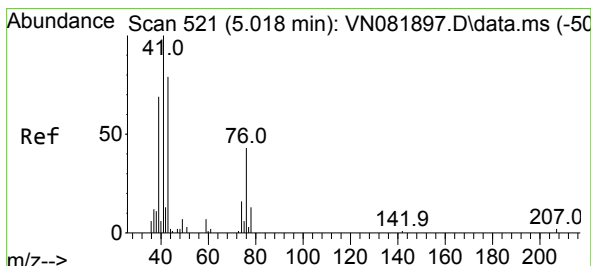
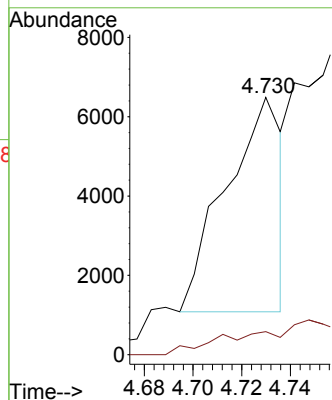
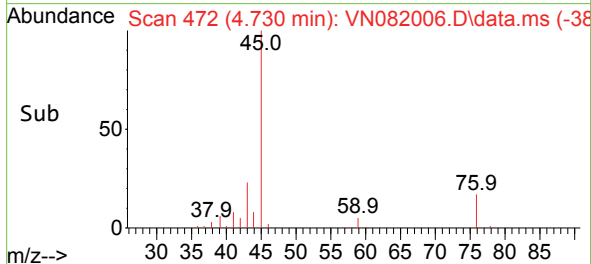


#16
Carbon Disulfide
Concen: 1.769 ug/l
RT: 4.730 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

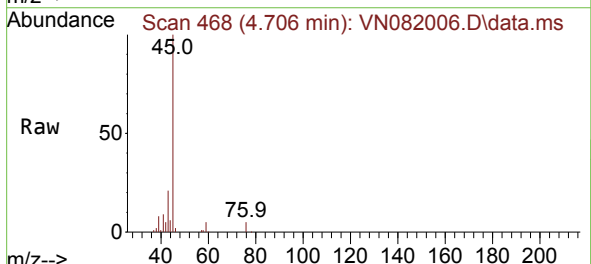
Instrument :
MSVOA_N
ClientSampleId :



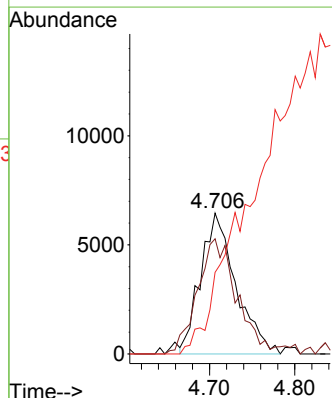
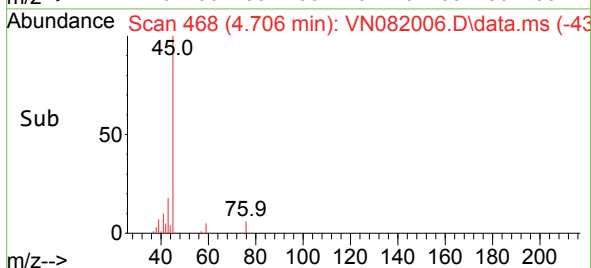
Tgt Ion: 76 Resp: 8622
Ion Ratio Lower Upper
76 100
78 6.6 6.3 9.5

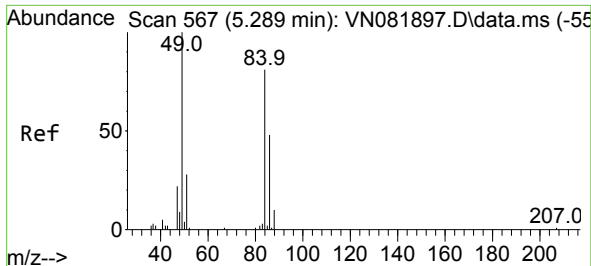


#17
Allyl chloride
Concen: 6.016 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.312 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46



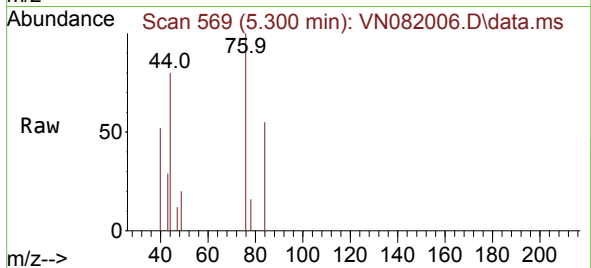
Tgt Ion: 41 Resp: 18583
Ion Ratio Lower Upper
41 100
39 76.8 37.6 112.9
76 58.0 27.8 83.4



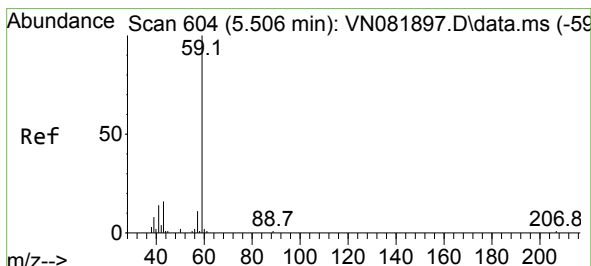
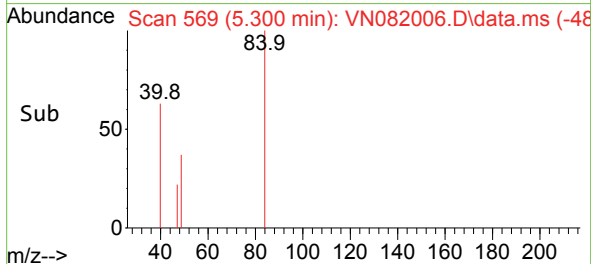
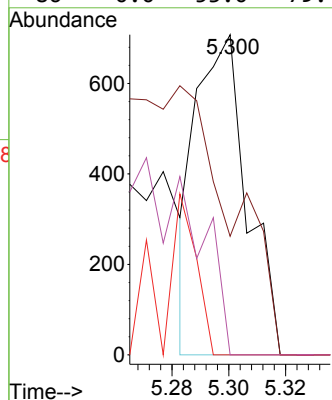


#18
Methylene Chloride
Concen: 0.440 ug/l
RT: 5.300 min Scan# 501
Delta R.T. 0.012 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

Instrument :
MSVOA_N
ClientSampleId :

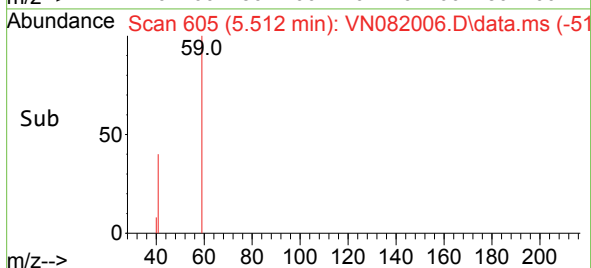
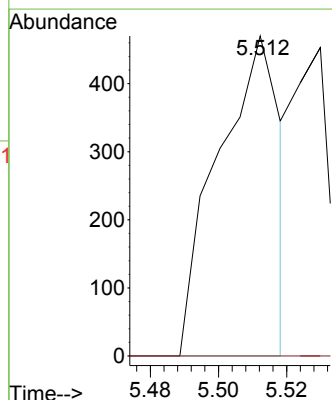
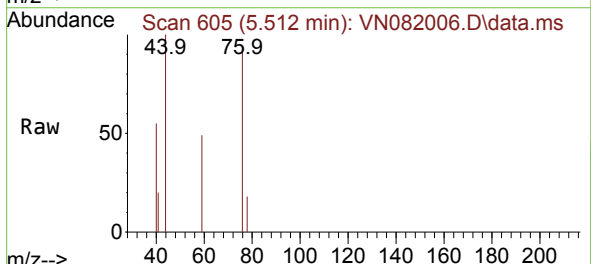


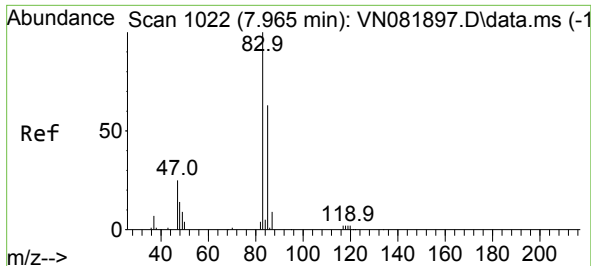
Tgt Ion: 84 Resp: 880
Ion Ratio Lower Upper
84 100
49 37.0 86.0 129.0#
51 0.0 30.0 45.0#
86 0.0 53.0 79.4#



#23
tert-Butyl Alcohol
Concen: 1.454 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.006 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

Tgt Ion: 59 Resp: 602
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

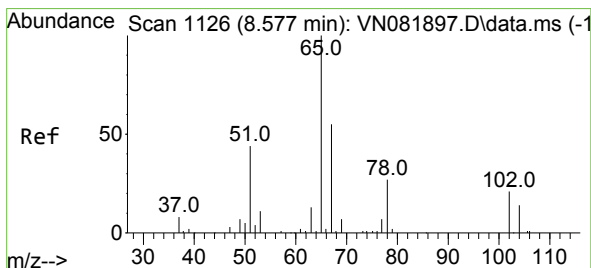
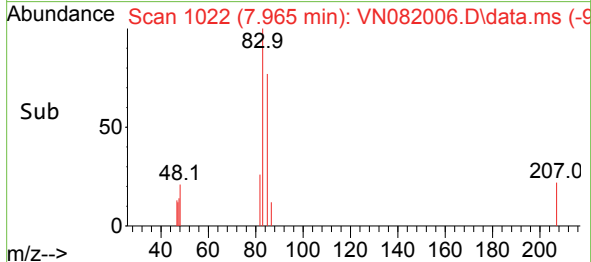
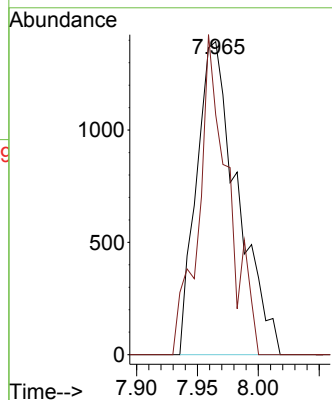
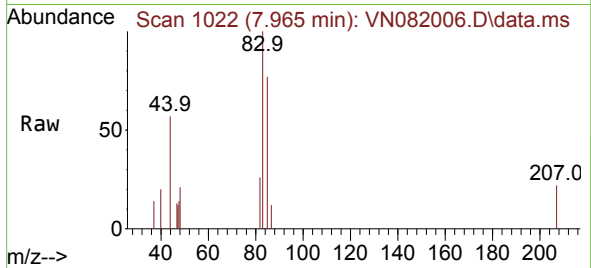




#25
Chloroform
Concen: 0.935 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

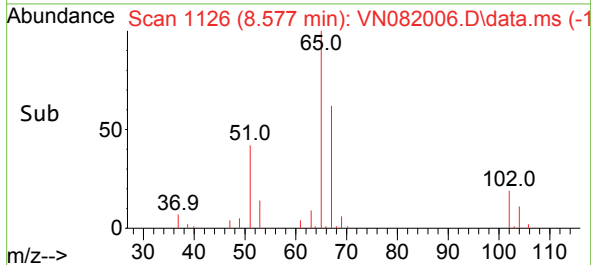
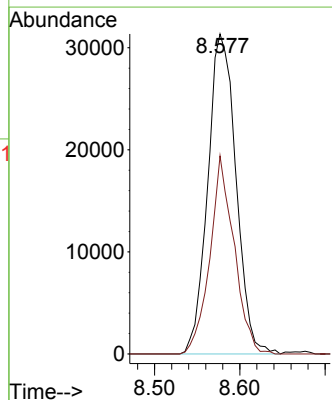
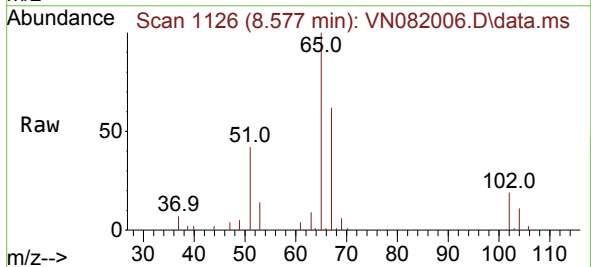
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MSVOA_N
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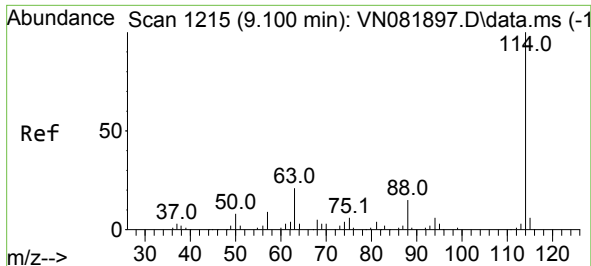
Tgt Ion: 83 Resp: 3255
Ion Ratio Lower Upper
83 100
85 76.6 50.9 76.3#



#27
1,2-Dichloroethane-d4
Concen: 29.868 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

Tgt Ion: 65 Resp: 72090
Ion Ratio Lower Upper
65 100
67 53.0 43.2 64.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN082006.D

Acq: 06 May 2024 13:46

Instrument :

MSVOA_N

ClientSampleId :

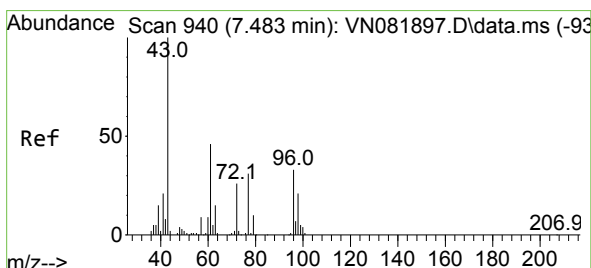
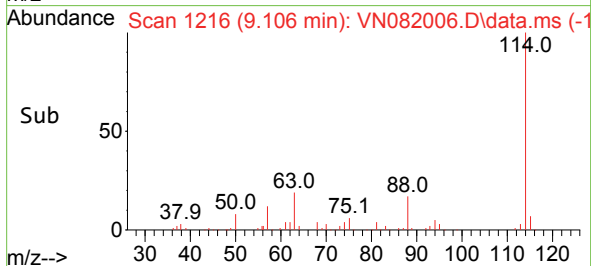
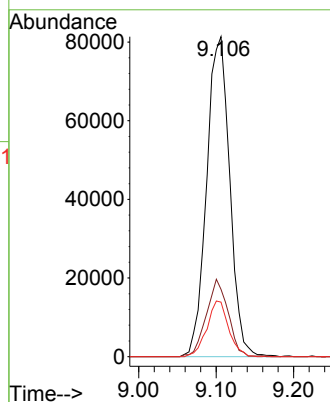
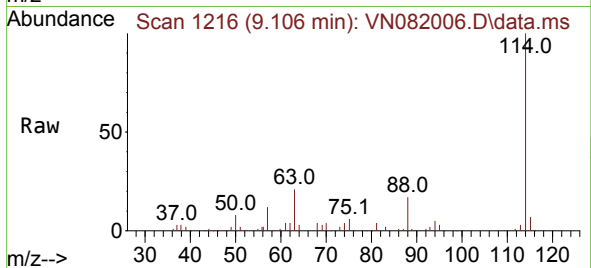
Tgt Ion:114 Resp: 168545

Ion Ratio Lower Upper

114 100

63 22.8 15.9 23.9

88 16.4 12.7 19.1



#30

2-Butanone

Concen: 82.780 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN082006.D

Acq: 06 May 2024 13:46

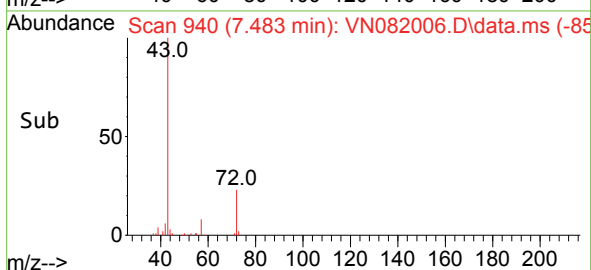
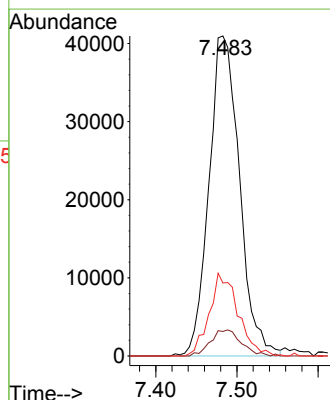
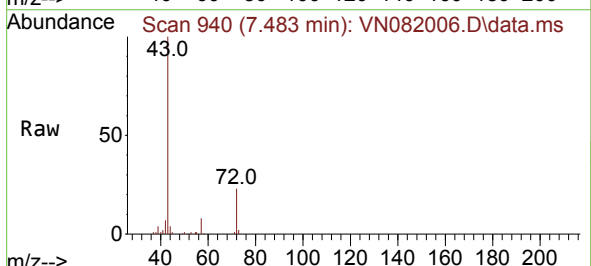
Tgt Ion: 43 Resp: 107070

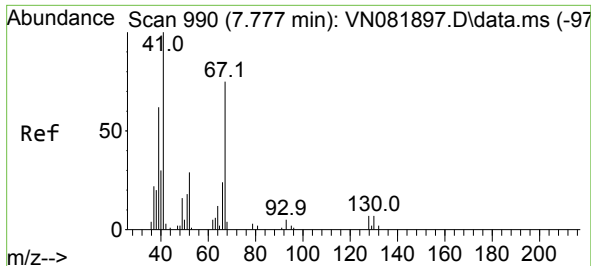
Ion Ratio Lower Upper

43 100

57 3.9 6.7 10.1#

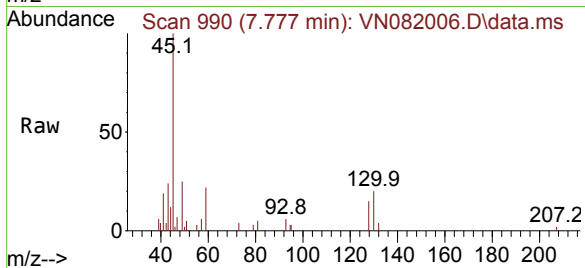
72 12.7 24.0 36.0#



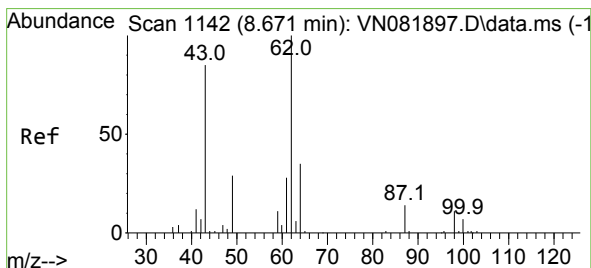
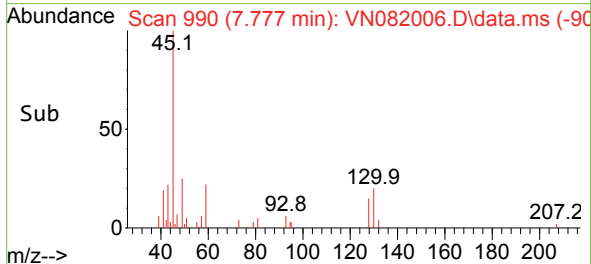
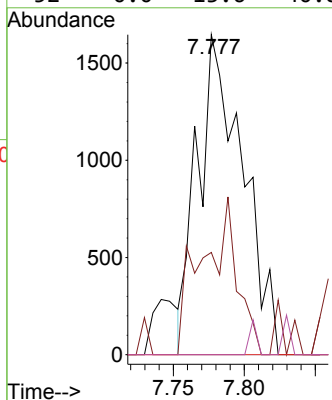


#35
Methacrylonitrile
Concen: 2.224 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

Instrument :
MSVOA_N
ClientSampleId :

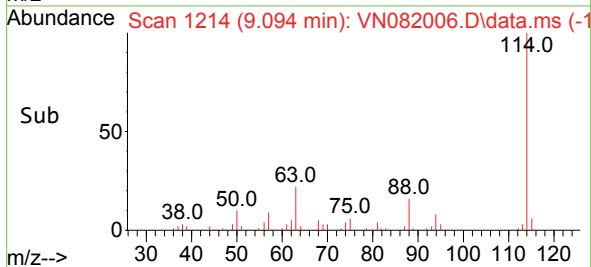
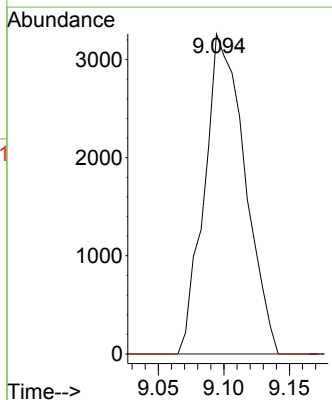
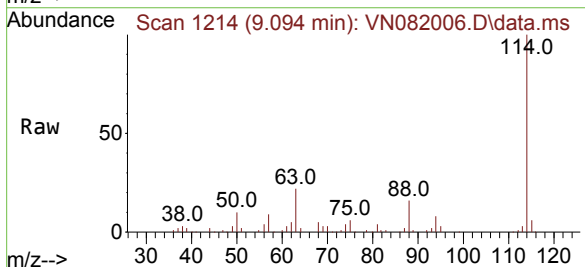


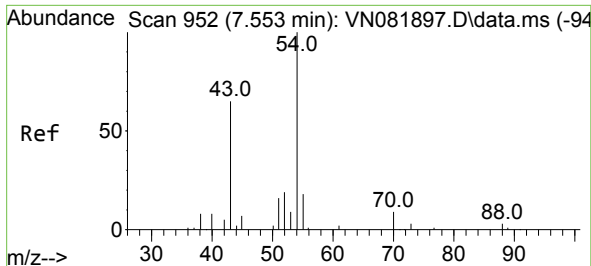
Tgt Ion:	41	Resp:	3640
Ion	Ratio	Lower	Upper
41	100		
39	32.0	25.3	75.9
67	0.0	38.7	116.1#
52	0.0	13.6	40.8#



#36
1,2-Dichloroethane
Concen: 2.602 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.423 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

Tgt Ion:	62	Resp:	6992
Ion	Ratio	Lower	Upper
62	100		
98	0.0	8.2	12.4#





#43

Ethyl Acetate

Concen: 0.463 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN082006.D

Acq: 06 May 2024 13:46

Instrument :

MSVOA_N

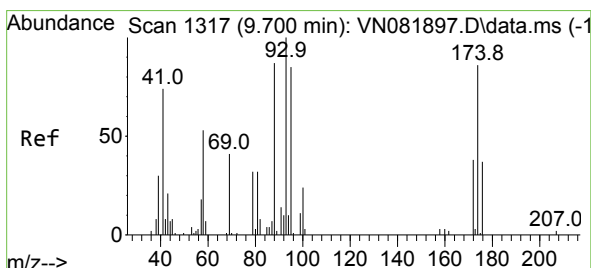
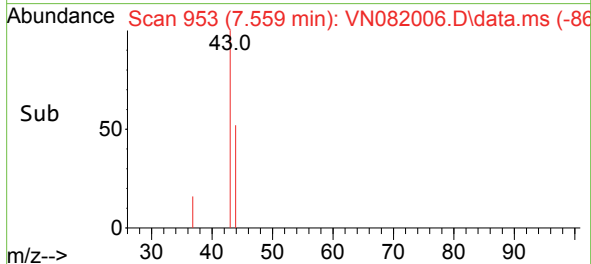
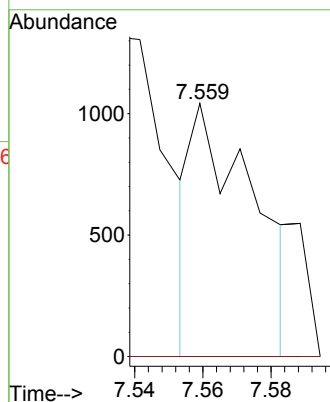
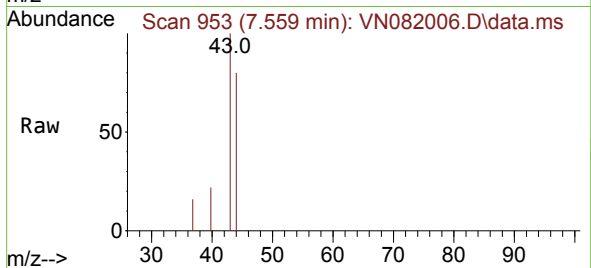
ClientSampleId :

Tgt Ion: 43 Resp: 1307

Ion Ratio Lower Upper

43 100

45 7.6 10.6 15.8#



#45

1,4-Dioxane

Concen: 3.188 ug/l

RT: 9.371 min Scan# 1261

Delta R.T. -0.329 min

Lab File: VN082006.D

Acq: 06 May 2024 13:46

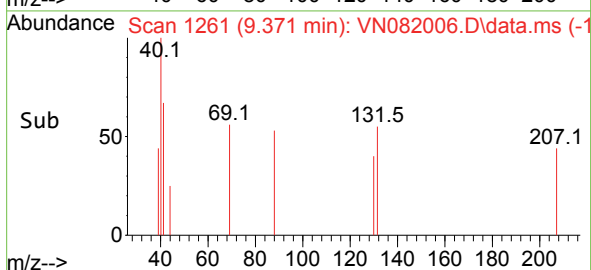
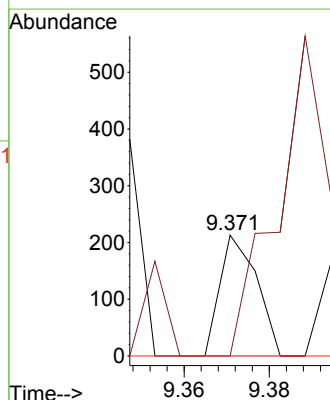
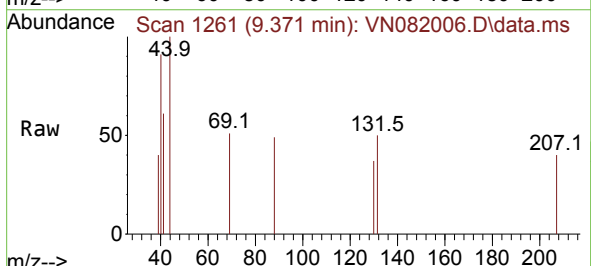
Tgt Ion: 88 Resp: 128

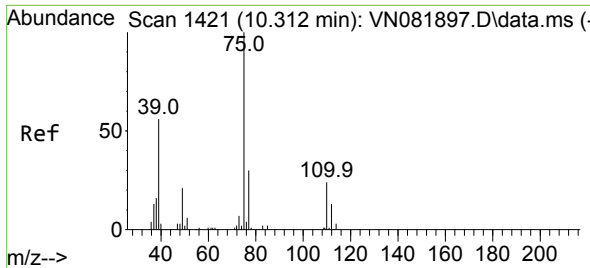
Ion Ratio Lower Upper

88 100

43 354.7 19.8 29.6#

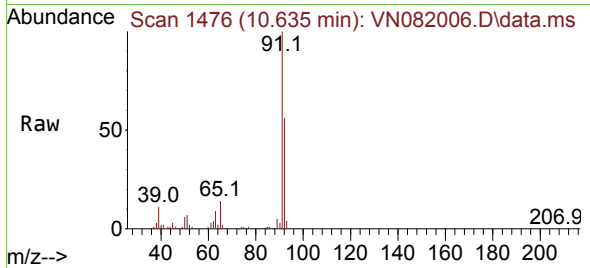
58 0.0 55.4 83.0#



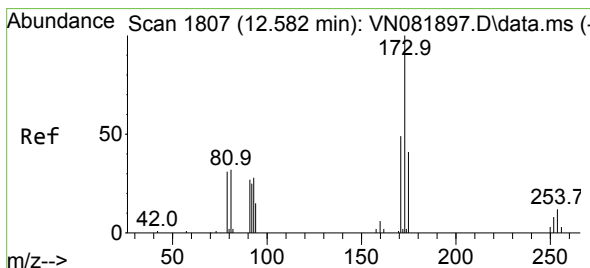
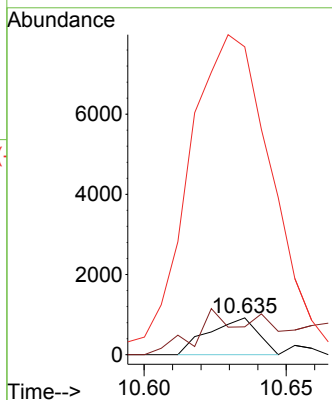
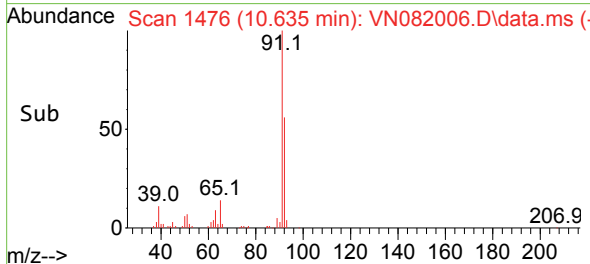


#49
cis-1,3-Dichloropropene
Concen: 0.344 ug/l
RT: 10.635 min Scan# 1421
Delta R.T. 0.323 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

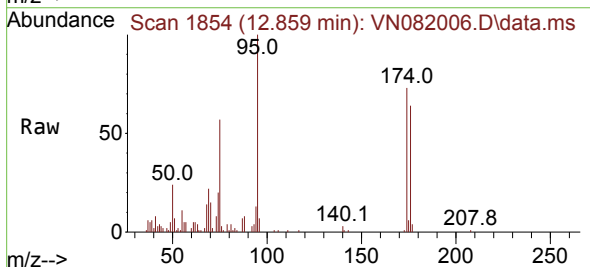
Instrument :
MSVOA_N
ClientSampleId :



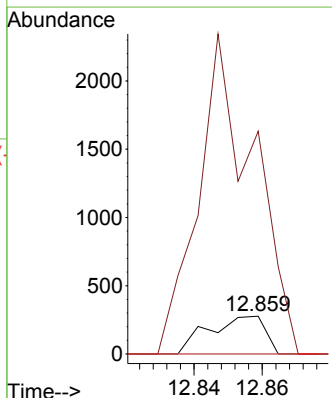
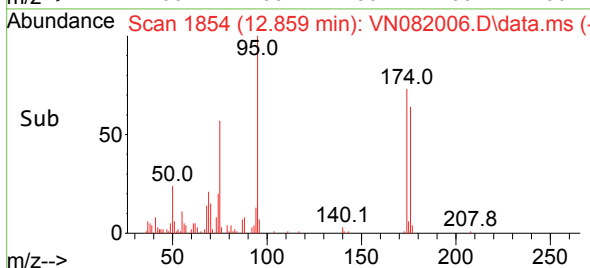
Tgt Ion: 75 Resp: 1111
Ion Ratio Lower Upper
75 100
77 22.6 24.9 37.3#
39 529.3 31.0 46.6#

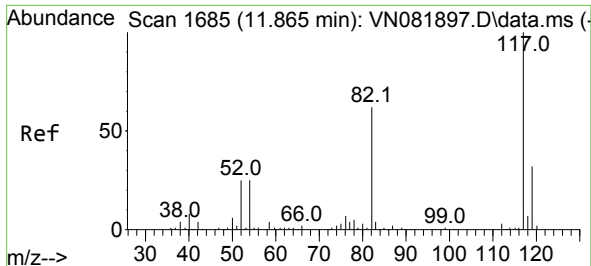


#56
Bromoform
Concen: 0.269 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.276 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46



Tgt Ion: 173 Resp: 319
Ion Ratio Lower Upper
173 100
175 825.7 40.0 60.0#
254 0.0 8.3 12.5#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN082006.D

Acq: 06 May 2024 13:46

Instrument :

MSVOA_N

ClientSampleId :

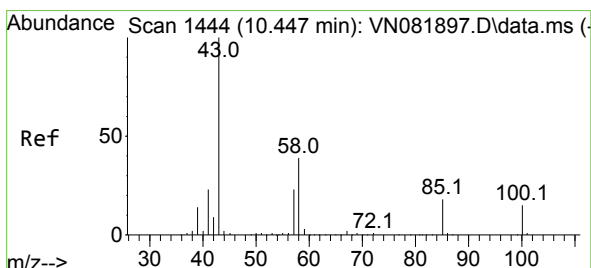
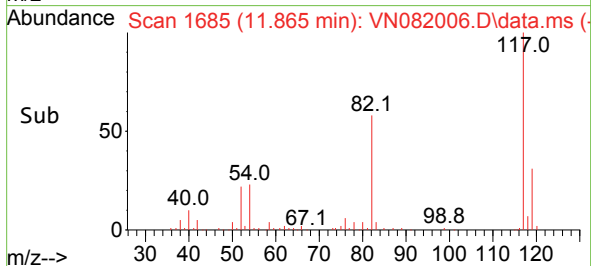
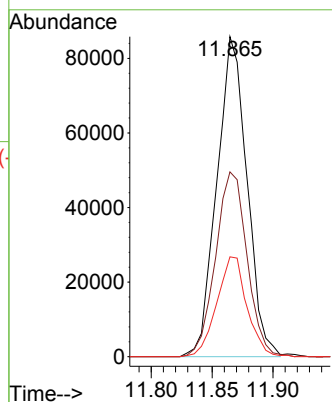
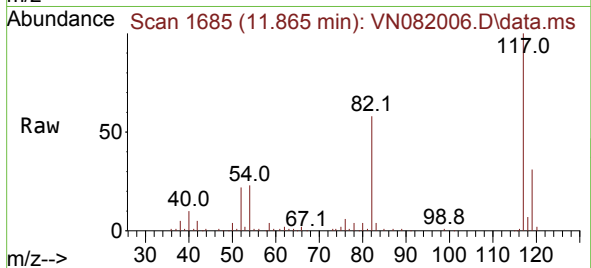
Tgt Ion:117 Resp: 147527

Ion Ratio Lower Upper

117 100

82 60.4 46.6 69.8

119 31.3 25.4 38.2



#58

4-Methyl-2-Pentanone

Concen: 2.410 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. -0.000 min

Lab File: VN082006.D

Acq: 06 May 2024 13:46

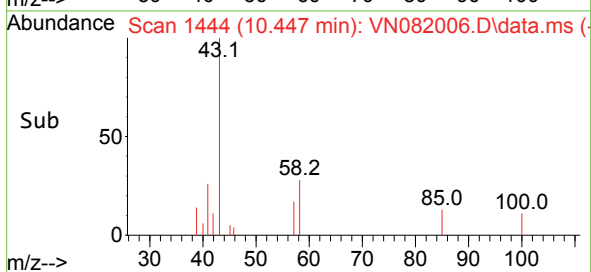
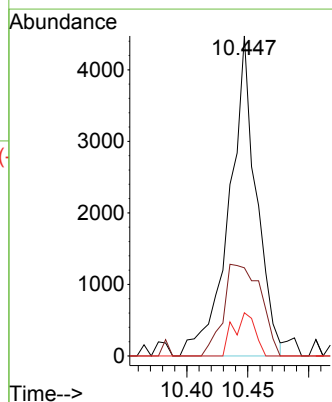
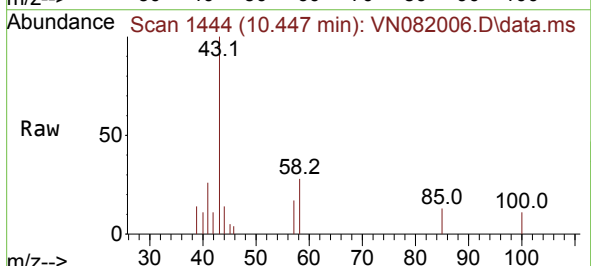
Tgt Ion: 43 Resp: 6903

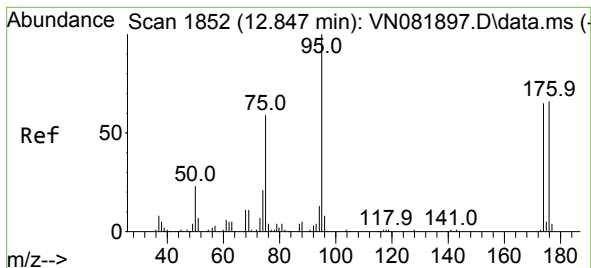
Ion Ratio Lower Upper

43 100

58 39.5 36.5 54.7

85 10.8 19.5 29.3#

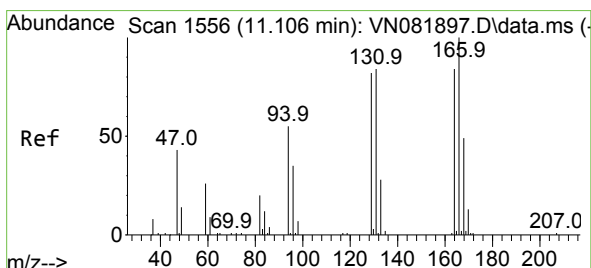
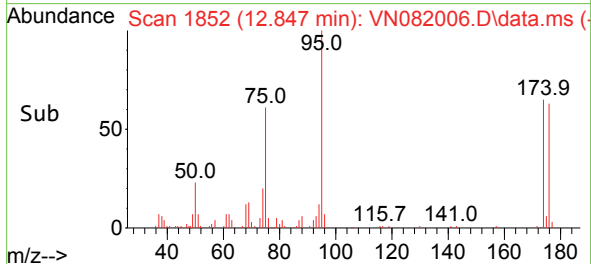
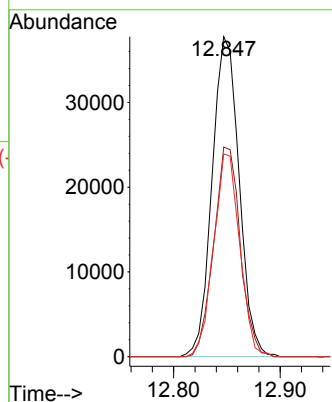
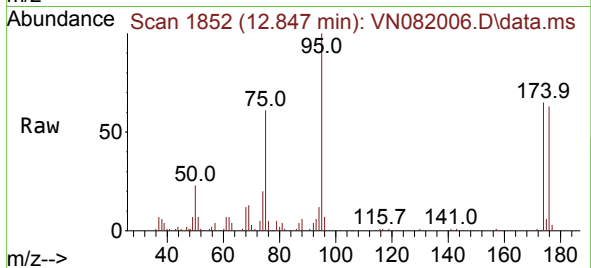




#60
4-Bromofluorobenzene
Concen: 27.079 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

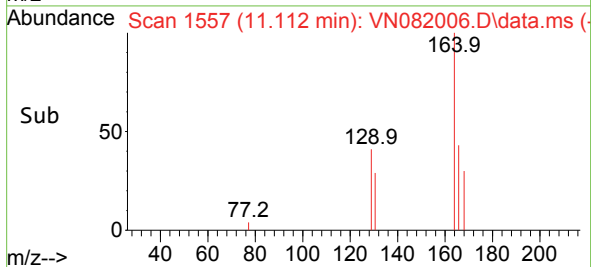
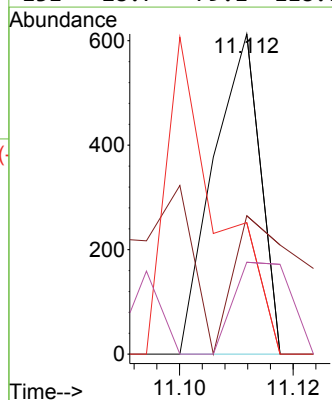
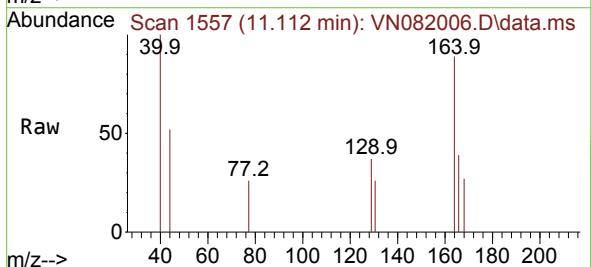
Instrument :
MSVOA_N
ClientSampleId :

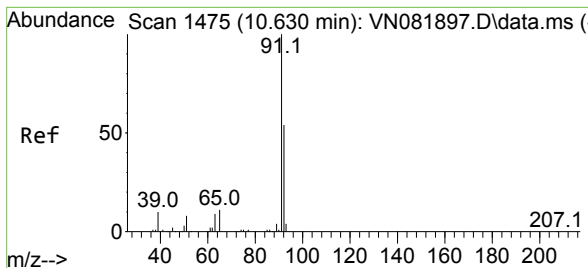
Tgt Ion: 95 Resp: 66484
Ion Ratio Lower Upper
95 100
174 64.3 60.5 90.7
176 61.3 57.8 86.6



#61
Tetrachloroethene
Concen: 0.213 ug/l
RT: 11.112 min Scan# 1557
Delta R.T. 0.006 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

Tgt Ion:164 Resp: 349
Ion Ratio Lower Upper
164 100
166 9.1 106.7 160.1#
129 41.1 85.8 128.6#
131 28.7 79.1 118.7#





#62

Toluene

Concen: 17.006 ug/l

RT: 10.630 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VN082006.D

Acq: 06 May 2024 13:46

Instrument :

MSVOA_N

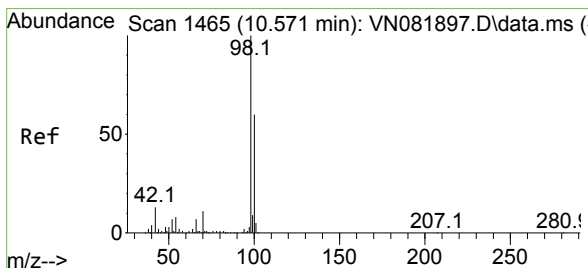
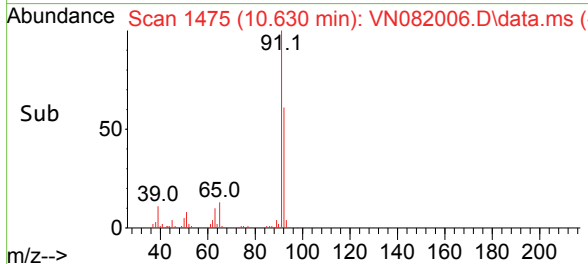
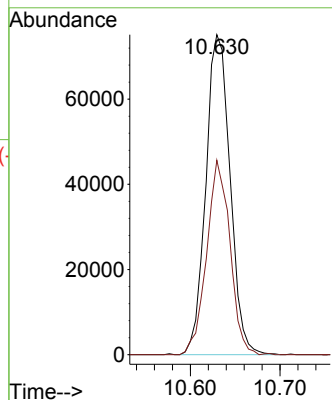
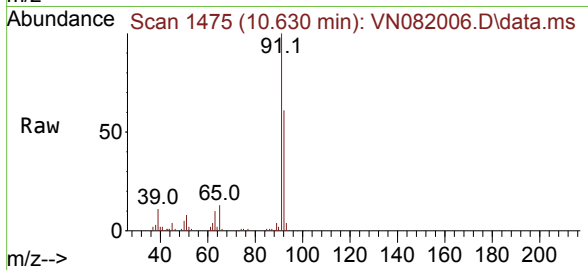
ClientSampleId :

Tgt Ion: 91 Resp: 141161

Ion Ratio Lower Upper

91 100

92 58.3 46.5 69.7



#63

Toluene-d8

Concen: 30.935 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN082006.D

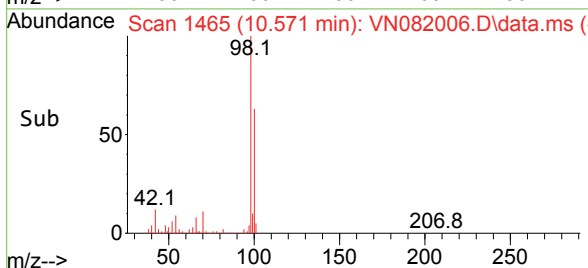
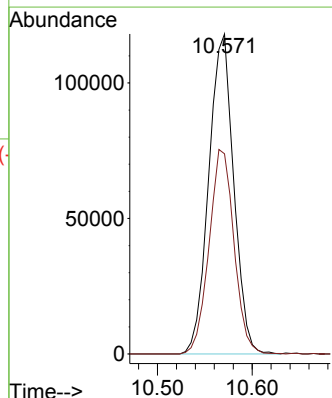
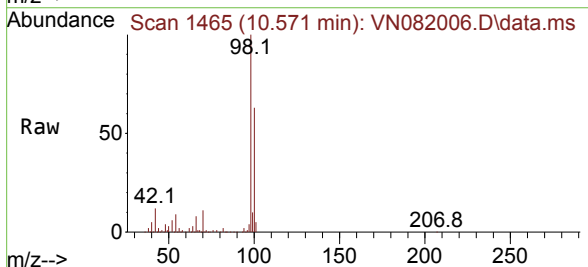
Acq: 06 May 2024 13:46

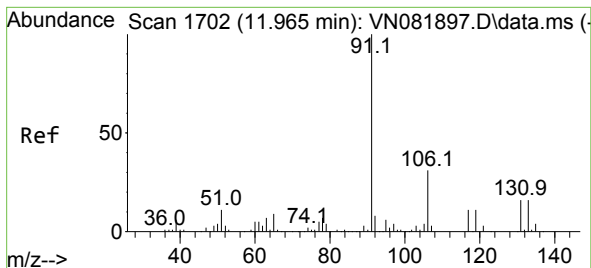
Tgt Ion: 98 Resp: 216732

Ion Ratio Lower Upper

98 100

100 63.8 52.7 79.1





#66

Ethyl Benzene

Concen: 0.270 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. -0.000 min

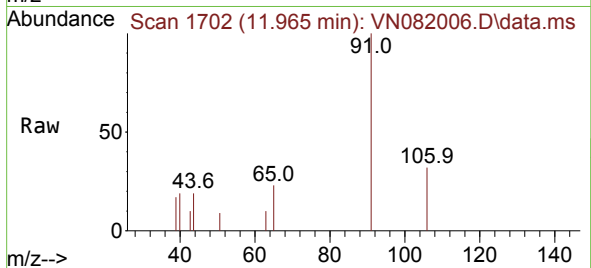
Lab File: VN082006.D

Acq: 06 May 2024 13:46

Instrument :

MSVOA_N

ClientSampleId :

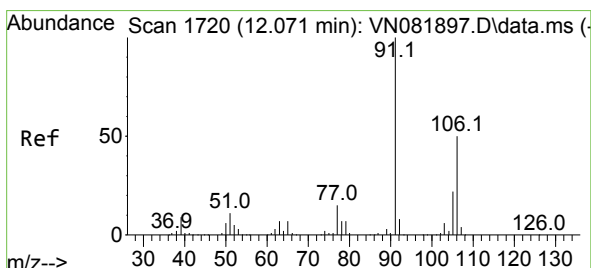
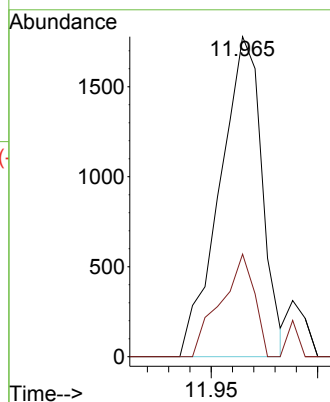


Tgt Ion: 91 Resp: 2457

Ion Ratio Lower Upper

91 100

106 32.1 24.4 36.6



#67

m/p-Xylenes

Concen: 0.808 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN082006.D

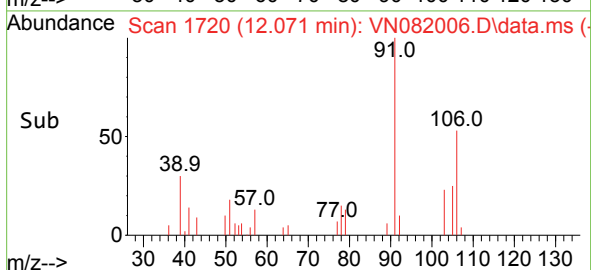
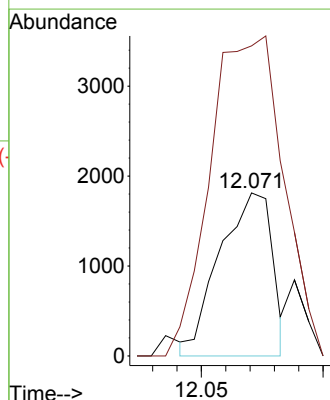
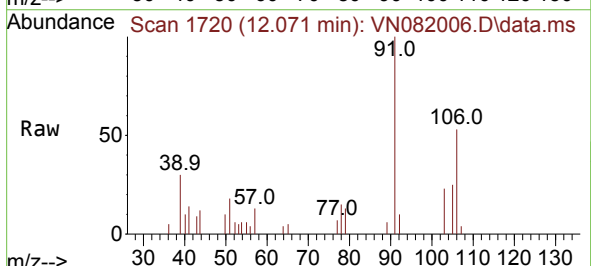
Acq: 06 May 2024 13:46

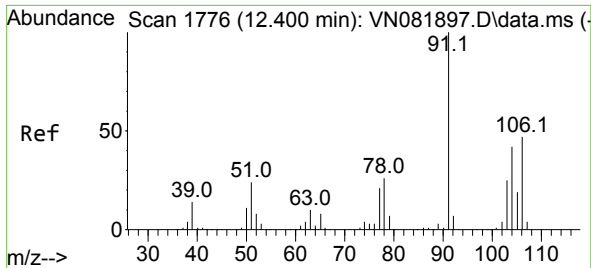
Tgt Ion: 106 Resp: 2726

Ion Ratio Lower Upper

106 100

91 0.0 166.6 249.8#

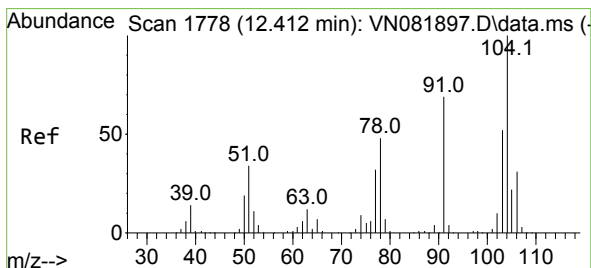
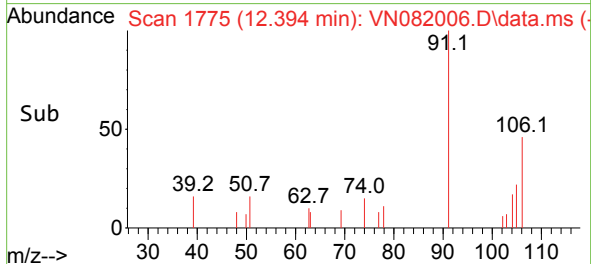
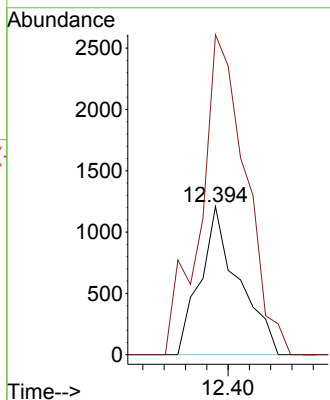
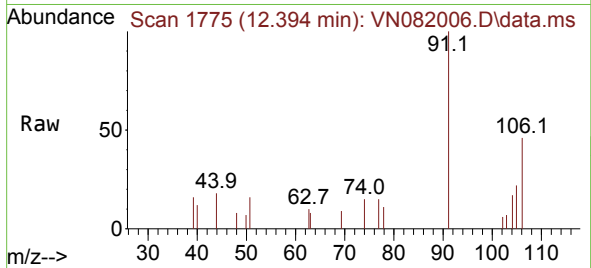




#68
o-Xylene
Concen: 0.452 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.006 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

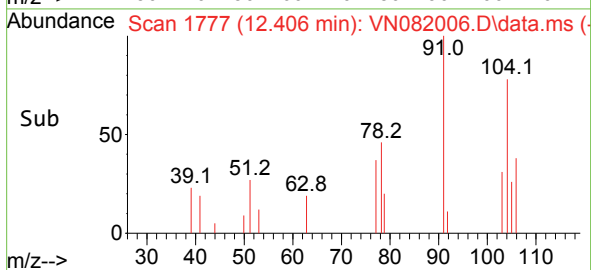
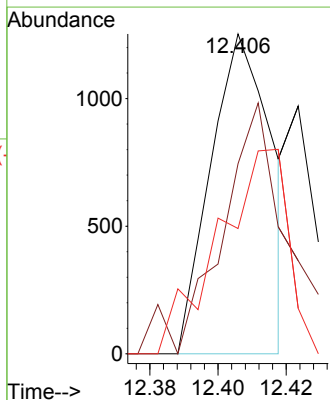
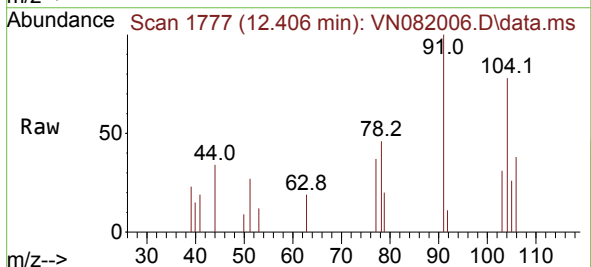
Instrument :
MSVOA_N
ClientSampleId :

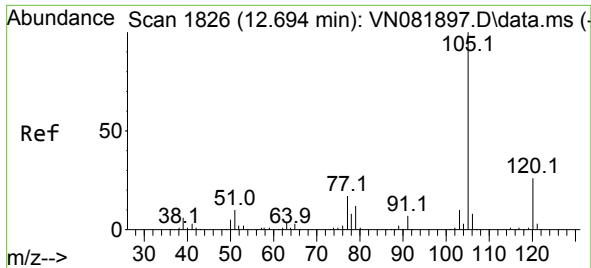
Tgt Ion:106 Resp: 1510
Ion Ratio Lower Upper
106 100
91 254.7 110.0 330.0



#69
Styrene
Concen: 0.278 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.006 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

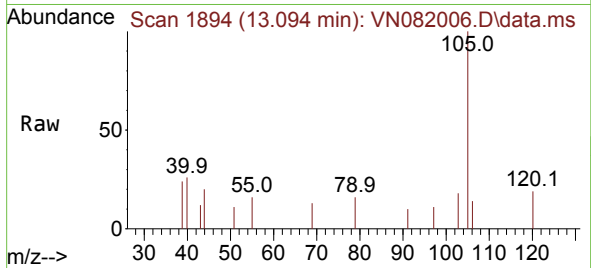
Tgt Ion:104 Resp: 1556
Ion Ratio Lower Upper
104 100
78 78.7 42.6 64.0#
103 73.1 43.7 65.5#



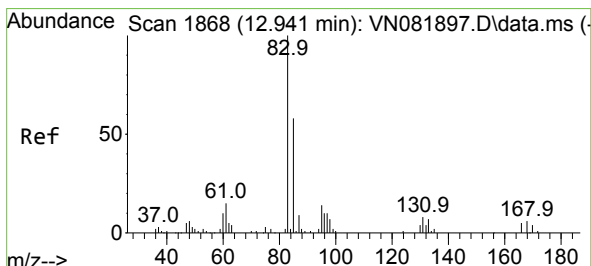
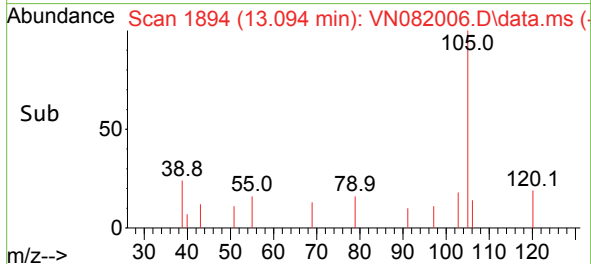
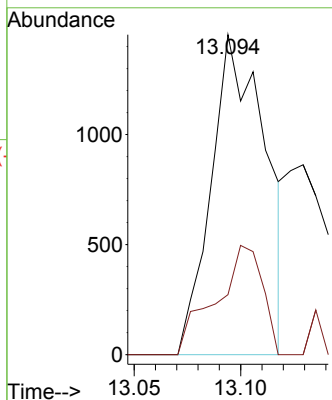


#70
Isopropylbenzene
Concen: 0.302 ug/l
RT: 13.094 min Scan# 1894
Delta R.T. 0.400 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

Instrument :
MSVOA_N
ClientSampleId :

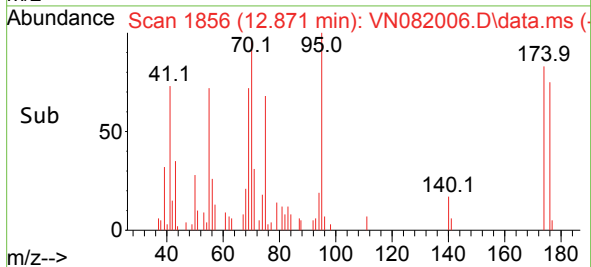
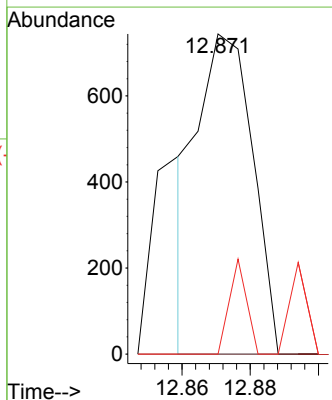
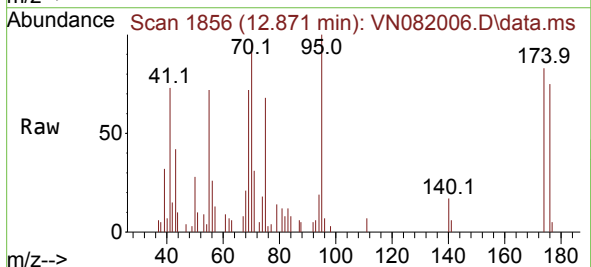


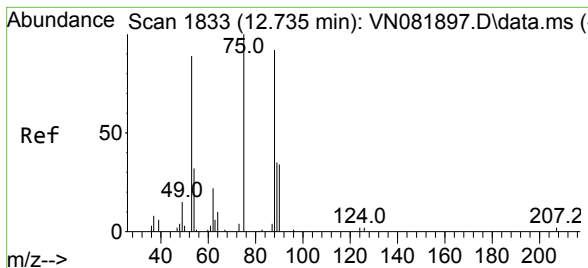
Tgt Ion:105 Resp: 2563
Ion Ratio Lower Upper
105 100
120 20.8 17.8 33.1



#71
1,1,2,2-Tetrachloroethane
Concen: 0.341 ug/l
RT: 12.871 min Scan# 1856
Delta R.T. -0.071 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

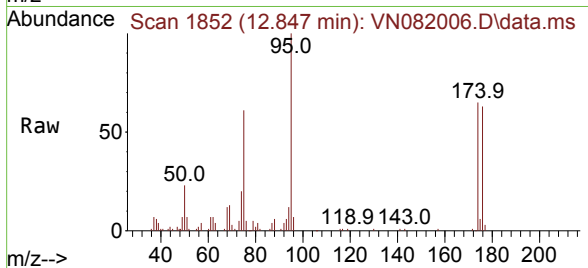
Tgt Ion: 83 Resp: 831
Ion Ratio Lower Upper
83 100
131 0.0 5.2 15.6#
85 0.0 32.3 96.8#



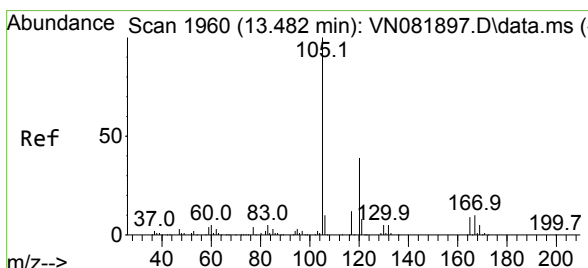
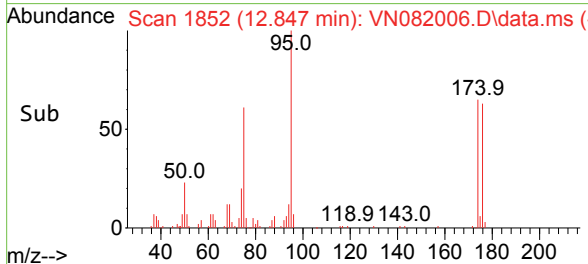
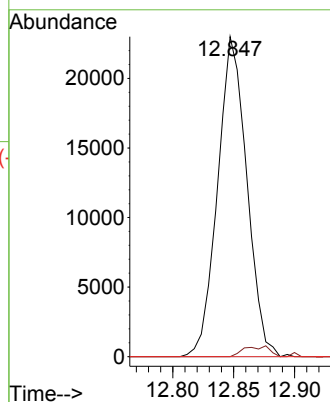


#77
t-1,4-Dichloro-2-butene
Concen: 37.788 ug/l
RT: 12.847 min Scan# 1833
Delta R.T. 0.112 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

Instrument :
MSVOA_N
ClientSampleId :

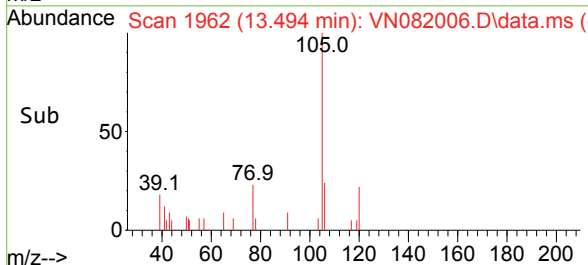
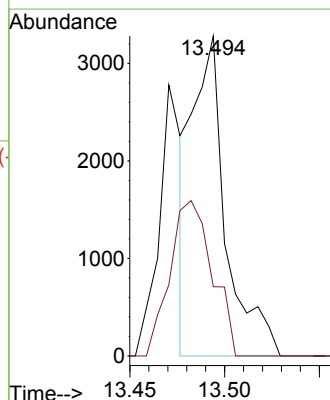
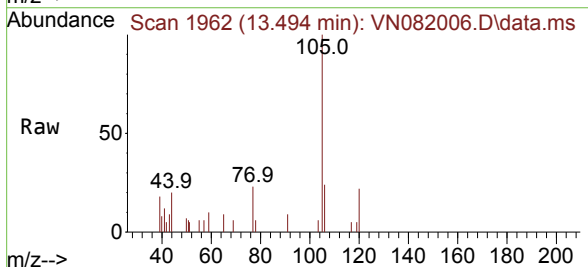


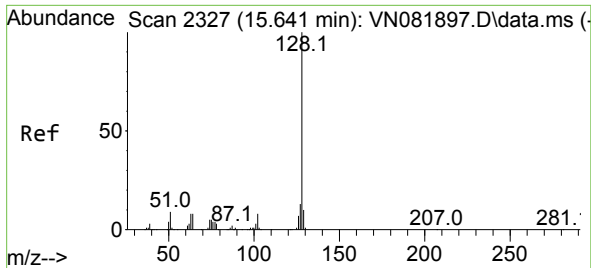
Tgt Ion: 75 Resp: 38357
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#



#80
1,2,4-Trimethylbenzene
Concen: 0.591 ug/l
RT: 13.494 min Scan# 1962
Delta R.T. 0.012 min
Lab File: VN082006.D
Acq: 06 May 2024 13:46

Tgt Ion: 105 Resp: 4076
Ion Ratio Lower Upper
105 100
120 60.7 0.0 86.8





#91

Naphthalene

Concen: 0.330 ug/l

RT: 15.641 min Scan# 21

Delta R.T. -0.000 min

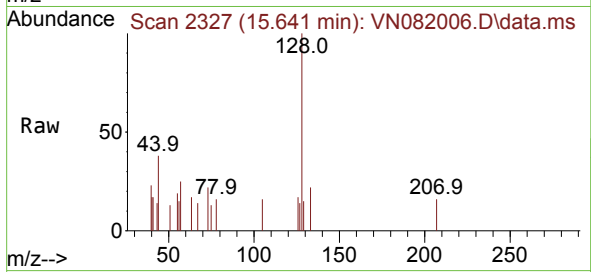
Lab File: VN082006.D

Acq: 06 May 2024 13:46

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	128	Resp:	2245
Ion	Ratio	Lower	Upper
128	100		
127	9.2	10.6	16.0#
129	7.8	8.6	13.0#

