

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082824\
 Data File : VN083536.D
 Acq On : 28 Aug 2024 15:19
 Operator : JC\MD
 Sample : P3759-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 28 15:45:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N082824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 28 12:23:16 2024
 Response via : Initial Calibration

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

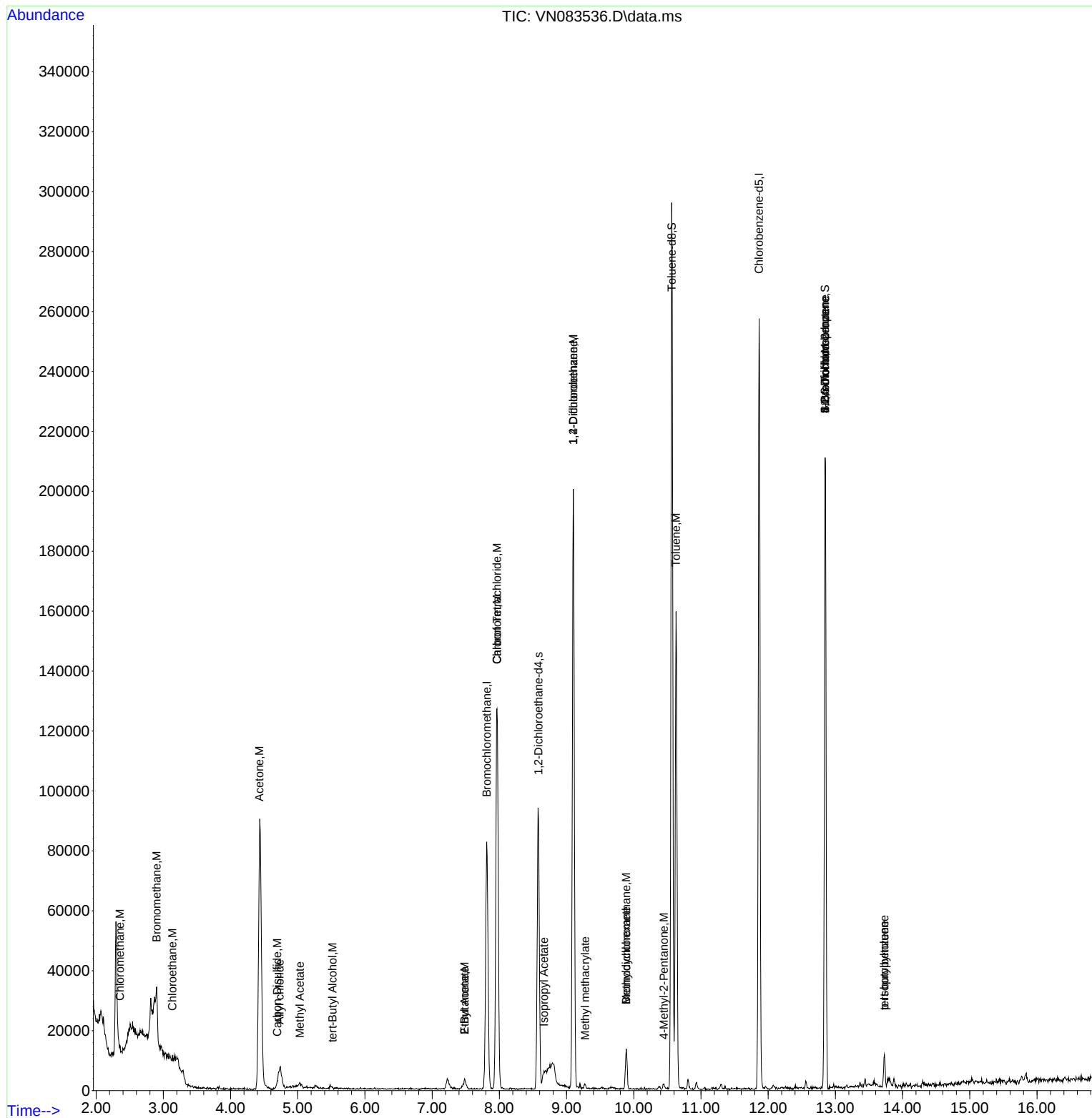
Internal Standards						
1) Bromochloromethane	7.812	128	28060	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	164912	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	144593	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	78726	31.215	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.033%			
60) 4-Bromofluorobenzene	12.847	95	75353	29.436	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.133%			
63) Toluene-d8	10.565	98	198306	29.707	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.033%			
Target Compounds						Qvalue
3) Chloromethane	2.353	50	1085	0.560	ug/l	99
5) Bromomethane	2.900	94	295	0.298	ug/l #	19
6) Chloroethane	3.136	64	739	0.554	ug/l	100
12) Methyl Acetate	5.030	43	1791	0.593	ug/l #	61
15) Acetone	4.430	58	17417	62.786	ug/l #	61
16) Carbon Disulfide	4.694	76	2308	0.487	ug/l #	78
17) Allyl chloride	4.730	41	901	0.277	ug/l	96
23) tert-Butyl Alcohol	5.518	59	152	0.384	ug/l #	100
25) Chloroform	7.965	83	127597	33.748	ug/l	100
30) 2-Butanone	7.482	43	5649	4.256	ug/l #	86
33) Carbon Tetrachloride	7.965	117	1043	0.346	ug/l #	48
36) 1,2-Dichloroethane	9.100	62	6764	2.311	ug/l #	72
38) Methylcyclohexane	9.888	83	9378	2.956	ug/l #	19
41) Bromodichloromethane	9.888	83	9378	3.167	ug/l	95
43) Ethyl Acetate	7.482	43	5649	2.216	ug/l #	67
44) Isopropyl Acetate	8.665	43	4226	0.702	ug/l	95
46) Methyl methacrylate	9.277	41	544	0.244	ug/l #	8
56) Bromoform	12.847	173	458	0.326	ug/l #	1
58) 4-Methyl-2-Pentanone	10.447	43	1753	0.684	ug/l #	55
62) Toluene	10.629	91	117947	14.102	ug/l	100
72) 1,2,3-Trichloropropane	12.847	75	41303	18.052	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	41303	41.600	ug/l #	12
79) tert-butylbenzene	13.729	119	5914	0.872	ug/l	58
82) p-Isopropyltoluene	13.729	119	5914	0.765	ug/l	89

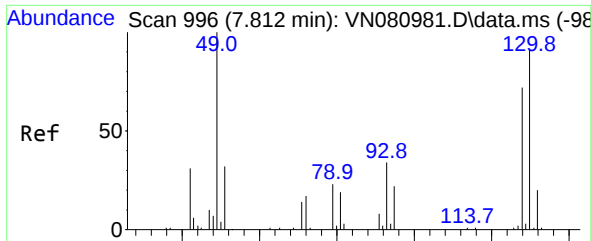
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082824\
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Sample : P3759-03
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ALS Vial : 15 Sample Multiplier: 1

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MSVOA_N
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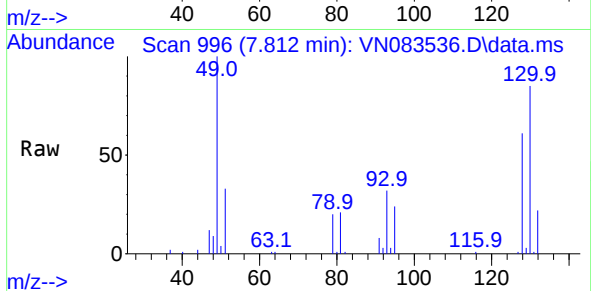
Quant Time: Aug 28 15:45:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N082824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 28 12:23:16 2024
Response via : Initial Calibration



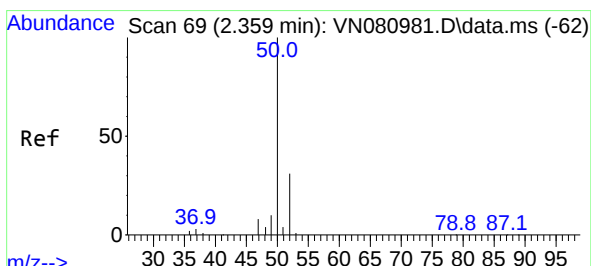
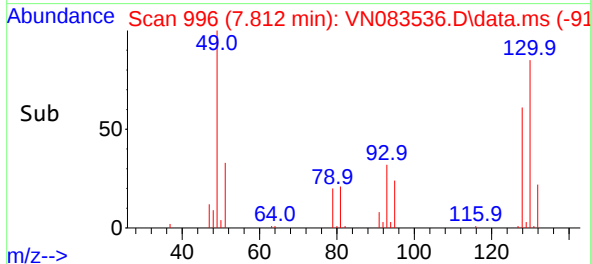
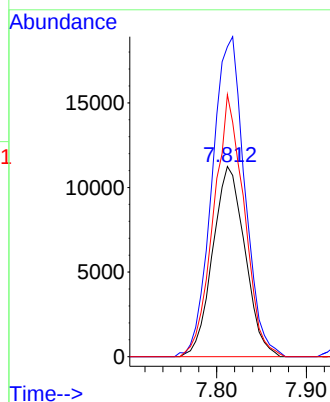


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

Instrument :
MSVOA_N
ClientSampleId :

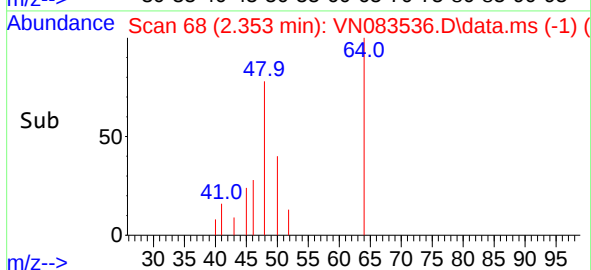
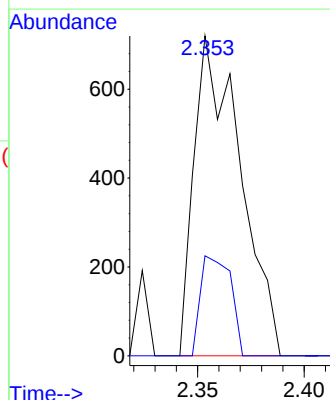
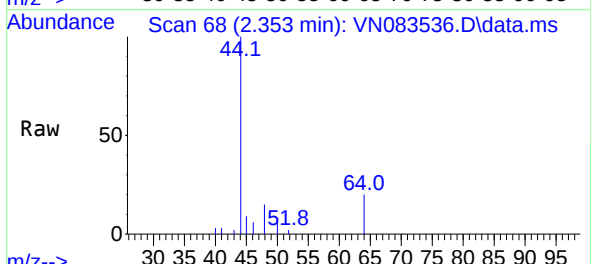


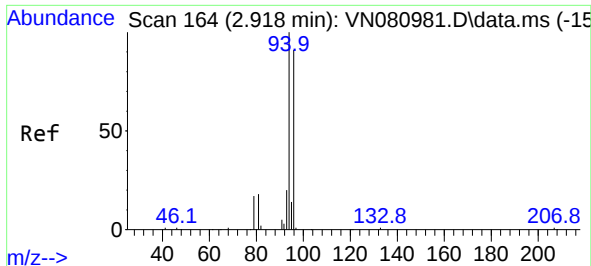
Tgt Ion:	128	Resp:	28060
Ion	Ratio	Lower	Upper
128	100		
49	170.5	0.0	403.7
130	130.3	0.0	323.3



#3
Chloromethane
Concen: 0.560 ug/l
RT: 2.353 min Scan# 68
Delta R.T. -0.006 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

Tgt Ion:	50	Resp:	1085
Ion	Ratio	Lower	Upper
50	100		
52	31.3	25.4	38.0

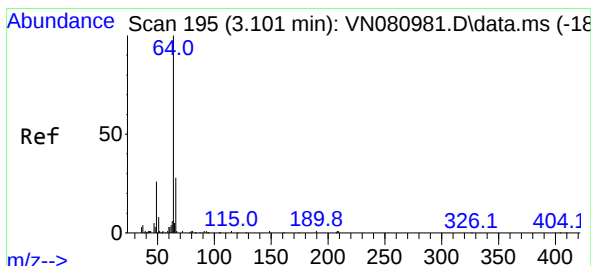
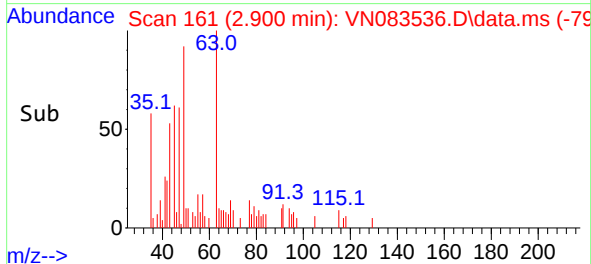
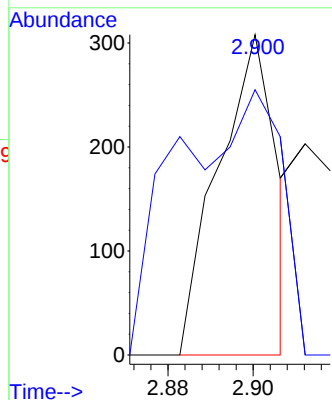
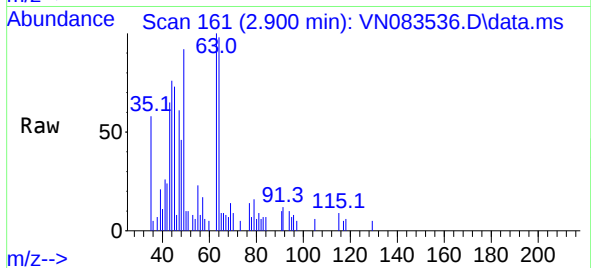




#5
Bromomethane
Concen: 0.298 ug/l
RT: 2.900 min Scan# 1
Delta R.T. -0.018 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

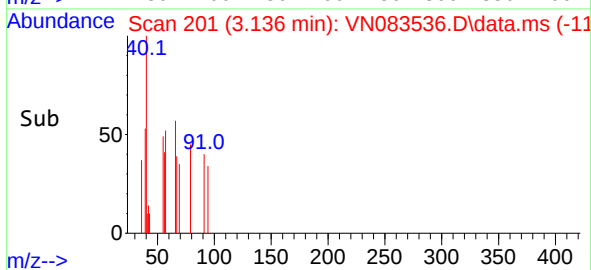
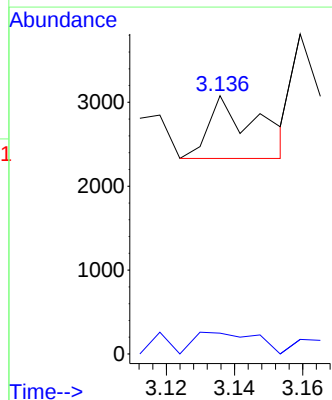
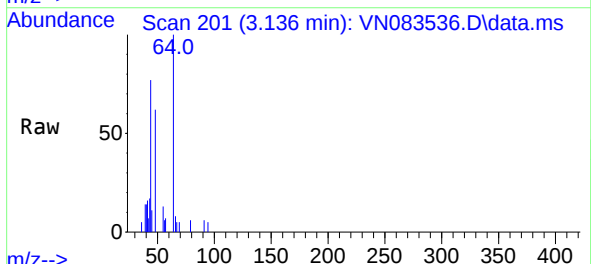
Instrument :
MSVOA_N
ClientSampleId :

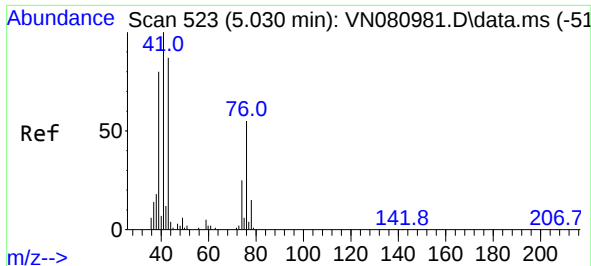
Tgt Ion: 94 Resp: 295
Ion Ratio Lower Upper
94 100
96 14.6 72.8 109.2#



#6
Chloroethane
Concen: 0.554 ug/l
RT: 3.136 min Scan# 201
Delta R.T. 0.035 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

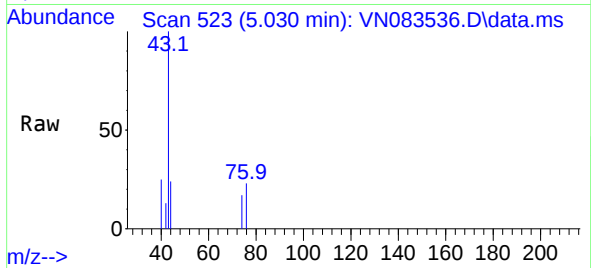
Tgt Ion: 64 Resp: 739
Ion Ratio Lower Upper
64 100
66 33.2 26.7 40.1



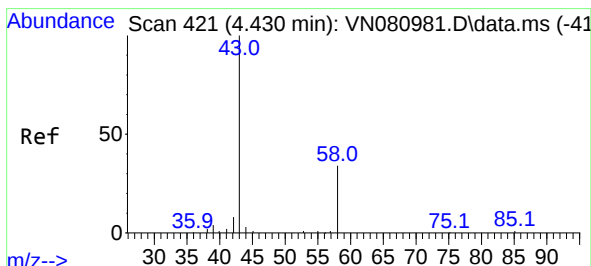
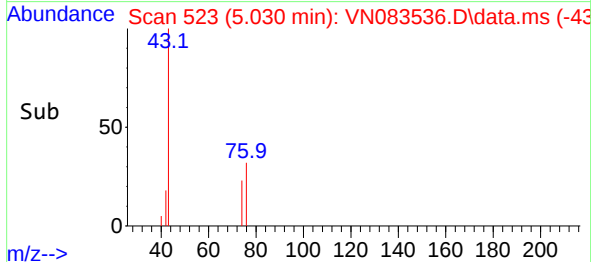
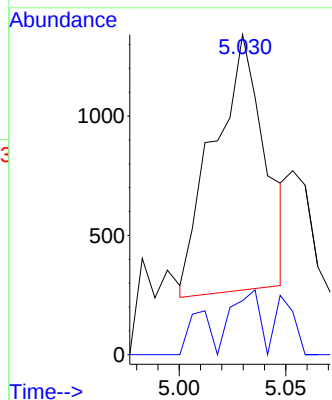


#12
Methyl Acetate
Concen: 0.593 ug/l
RT: 5.030 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

Instrument :
MSVOA_N
ClientSampleId :

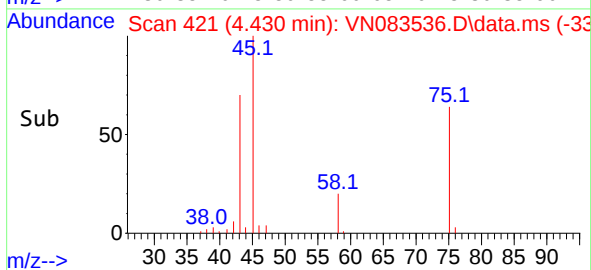
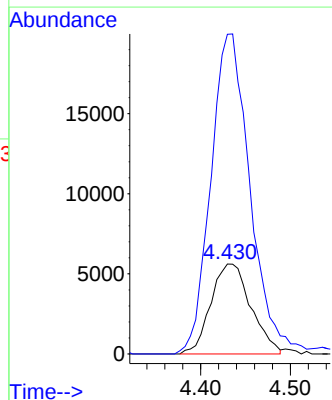
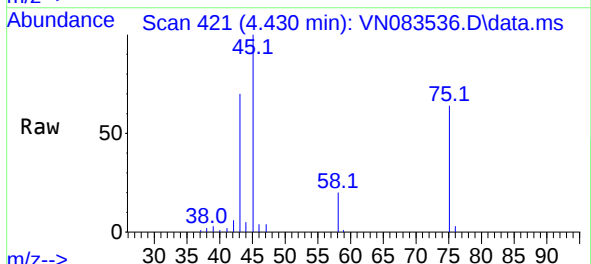


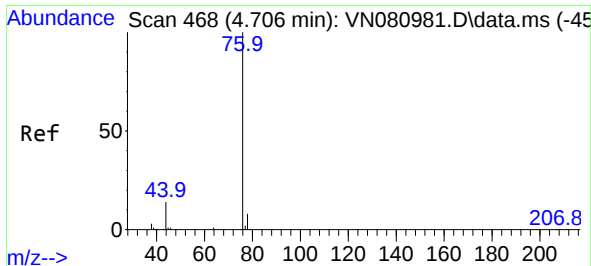
Tgt Ion: 43 Resp: 1791
Ion Ratio Lower Upper
43 100
74 12.3 27.7 41.5#



#15
Acetone
Concen: 62.786 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

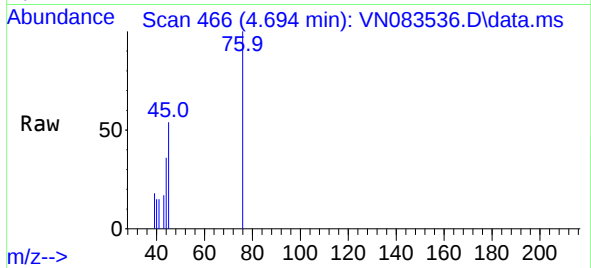
Tgt Ion: 58 Resp: 17417
Ion Ratio Lower Upper
58 100
43 351.8 223.1 334.7#



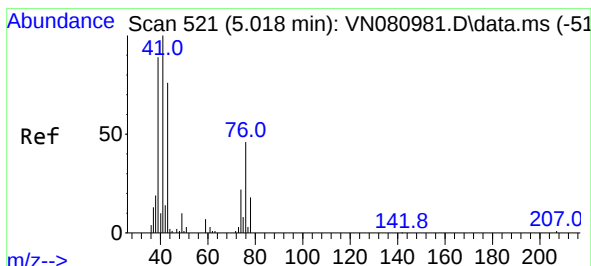
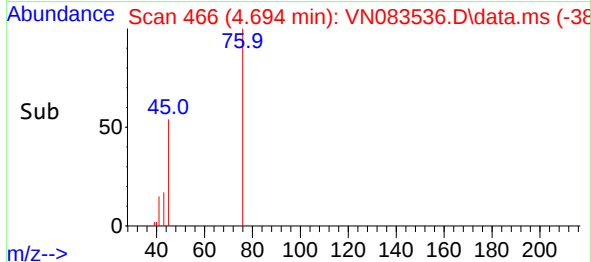
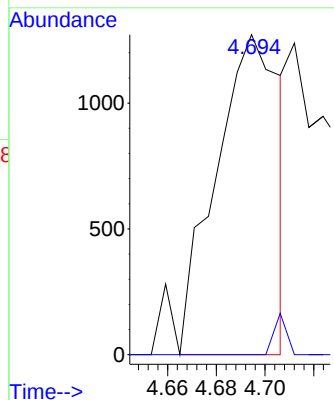


#16
Carbon Disulfide
Concen: 0.487 ug/l
RT: 4.694 min Scan# 411
Delta R.T. -0.012 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

Instrument :
MSVOA_N
ClientSampleId :

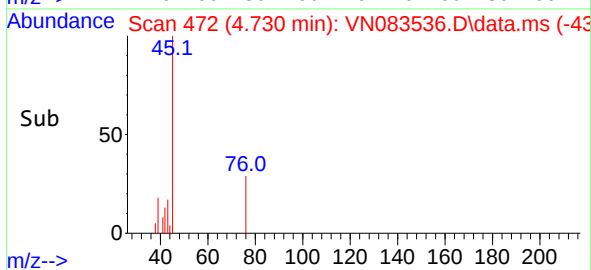
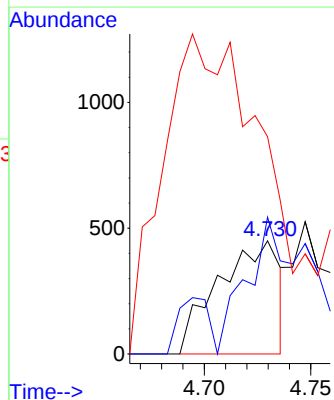
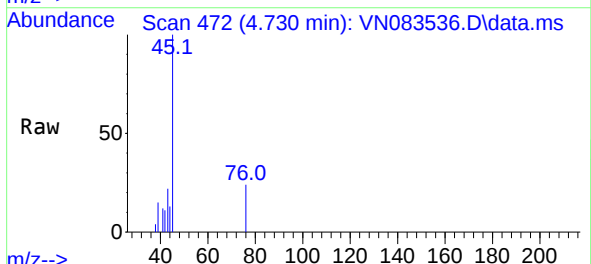


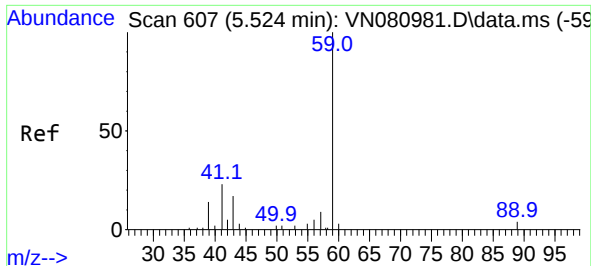
Tgt Ion: 76 Resp: 2308
Ion Ratio Lower Upper
76 100
78 0.0 6.3 9.5#



#17
Allyl chloride
Concen: 0.277 ug/l
RT: 4.730 min Scan# 472
Delta R.T. -0.288 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

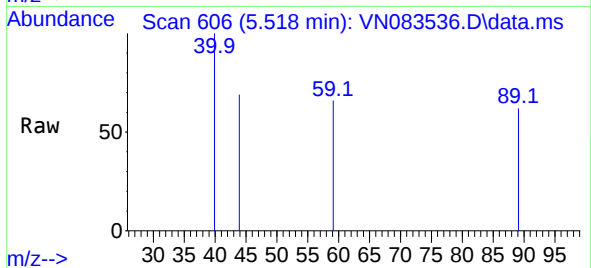
Tgt Ion: 41 Resp: 901
Ion Ratio Lower Upper
41 100
39 80.4 37.6 112.9
76 56.2 27.8 83.4



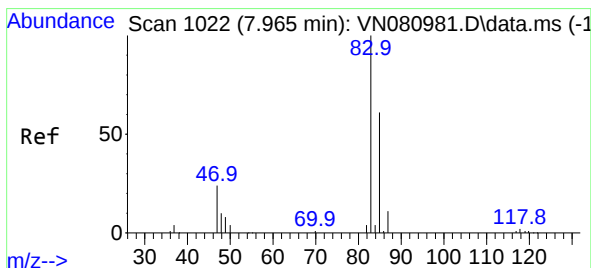
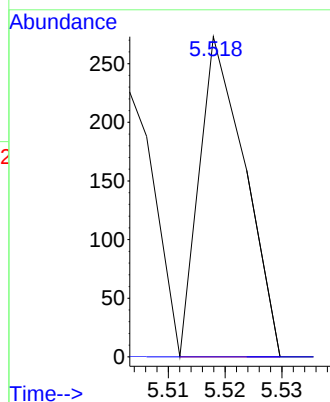
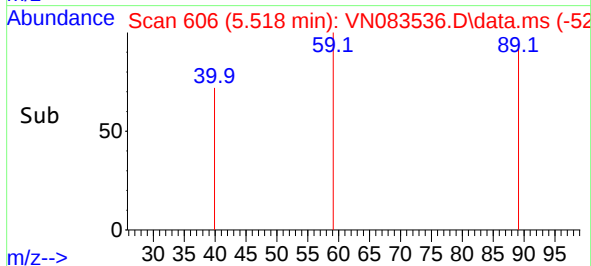


#23
tert-Butyl Alcohol
Concen: 0.384 ug/l
RT: 5.518 min Scan# 607
Delta R.T. -0.006 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

Instrument :
MSVOA_N
ClientSampleId :

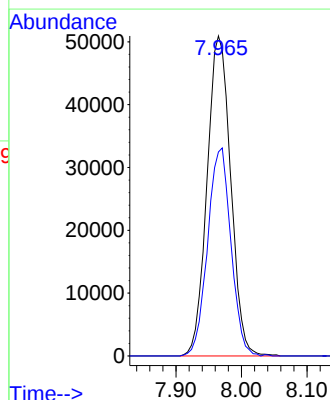
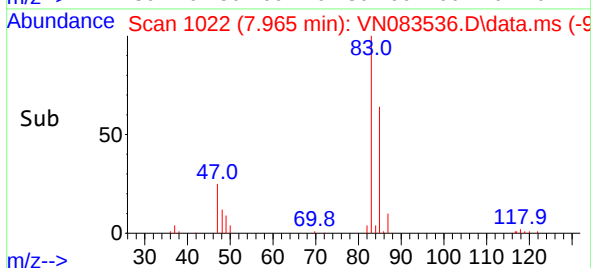
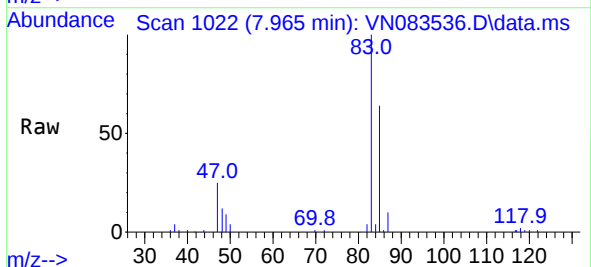


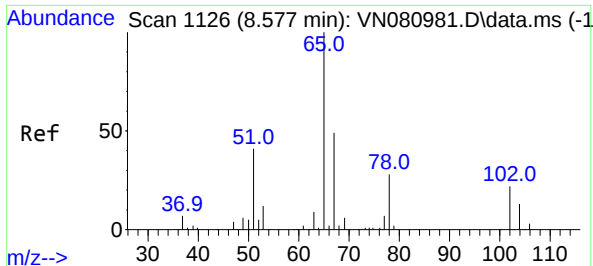
Tgt Ion: 59 Resp: 152
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 33.748 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

Tgt Ion: 83 Resp: 127597
Ion Ratio Lower Upper
83 100
85 63.7 50.9 76.3

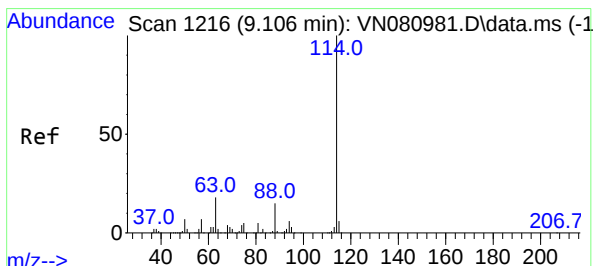
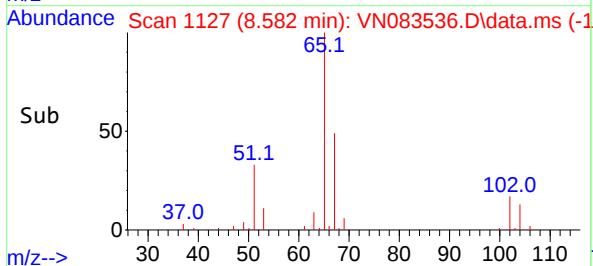
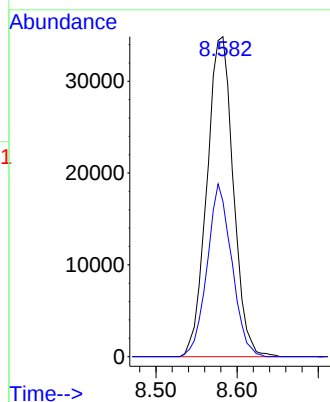
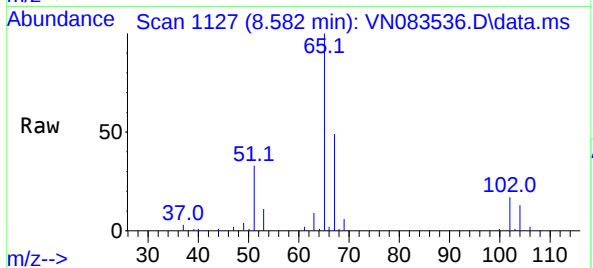




#27
1,2-Dichloroethane-d4
Concen: 31.215 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

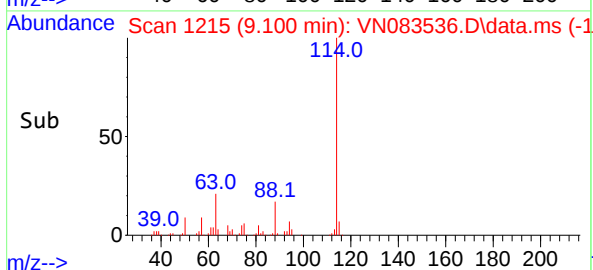
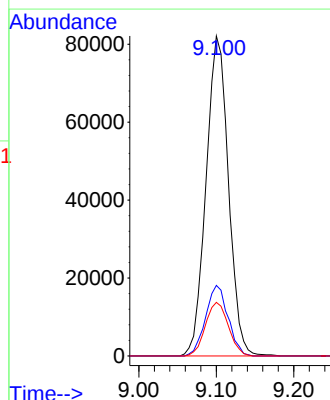
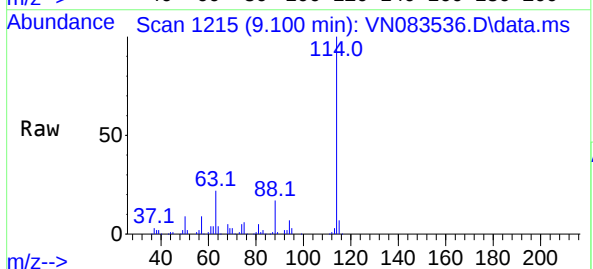
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MSVOA_N
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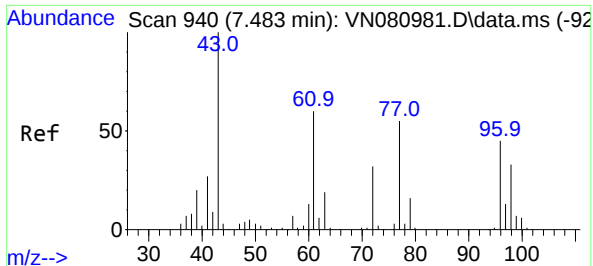
Tgt Ion: 65 Resp: 78726
Ion Ratio Lower Upper
65 100
67 50.5 43.2 64.8



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.006 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

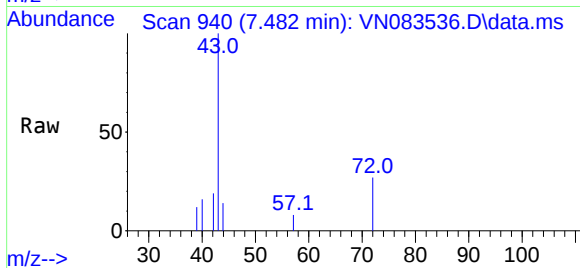
Tgt Ion: 114 Resp: 164912
Ion Ratio Lower Upper
114 100
63 22.1 15.9 23.9
88 17.2 12.7 19.1



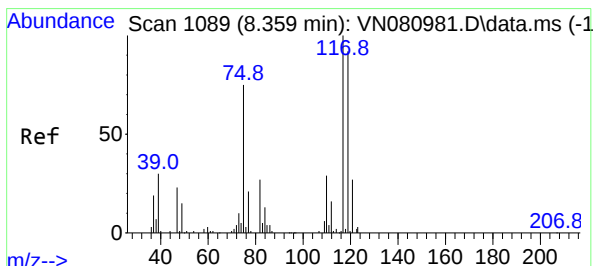
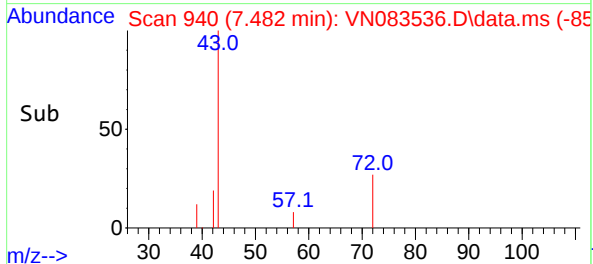
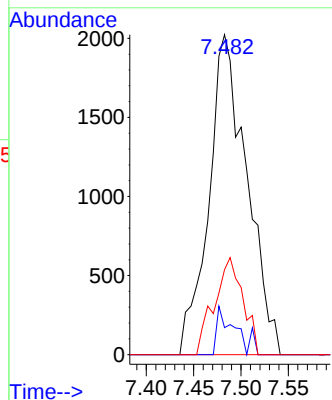


#30
2-Butanone
Concen: 4.256 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

Instrument :
MSVOA_N
ClientSampleId :

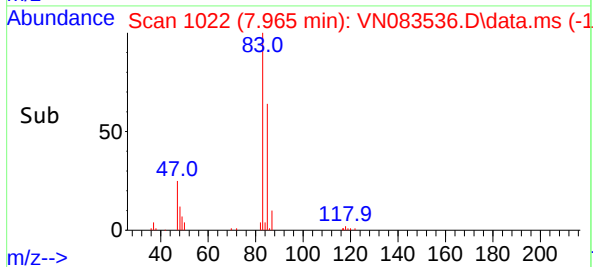
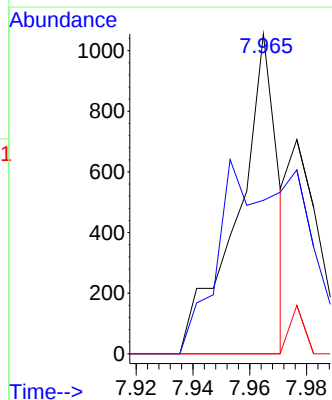
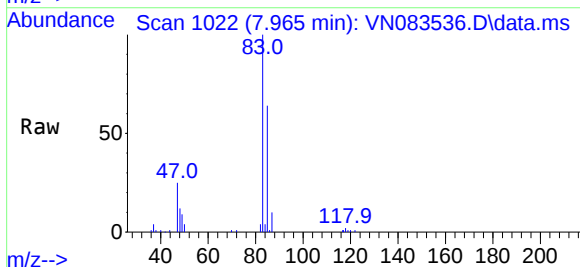


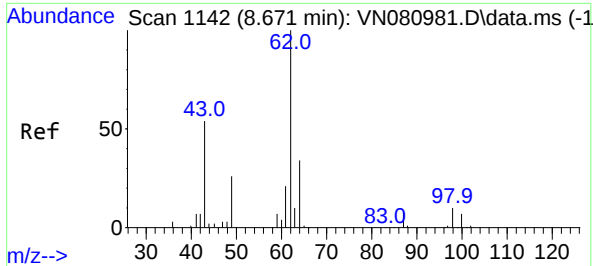
Tgt Ion: 43 Resp: 5649
Ion Ratio Lower Upper
43 100
57 3.0 6.7 10.1#
72 22.8 24.0 36.0#



#33
Carbon Tetrachloride
Concen: 0.346 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.394 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

Tgt Ion: 117 Resp: 1043
Ion Ratio Lower Upper
117 100
119 48.0 77.7 116.5#
121 0.0 27.0 40.6#

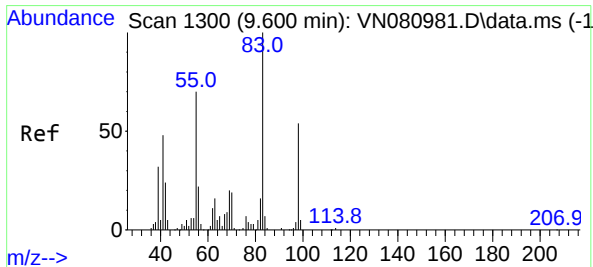
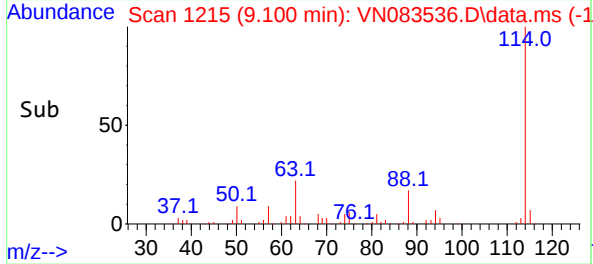
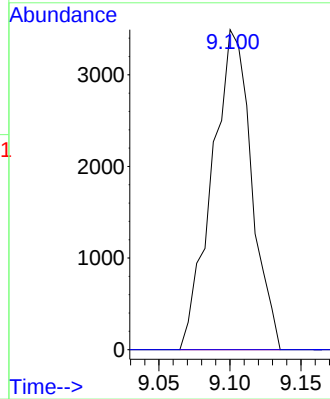
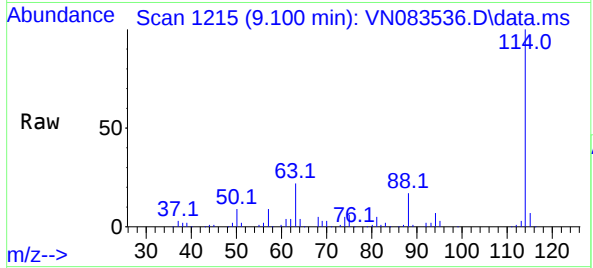




#36
1,2-Dichloroethane
Concen: 2.311 ug/l
RT: 9.100 min Scan# 1142
Delta R.T. 0.429 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

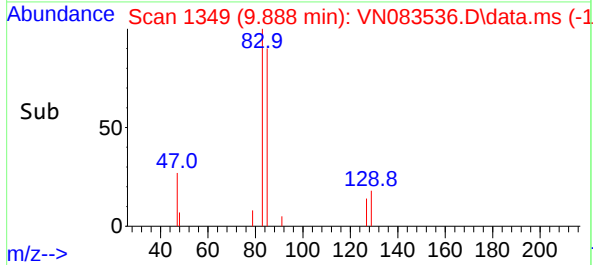
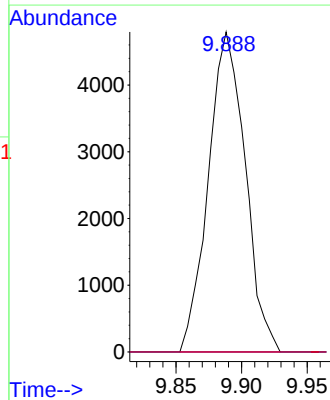
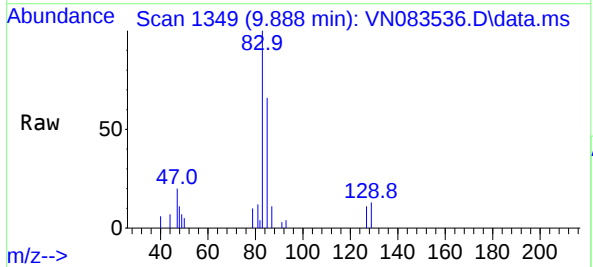
Instrument :
MSVOA_N
ClientSampleId :

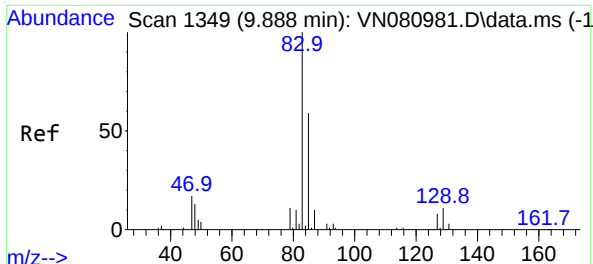
Tgt Ion: 62 Resp: 6764
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.4#



#38
Methylcyclohexane
Concen: 2.956 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. 0.288 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

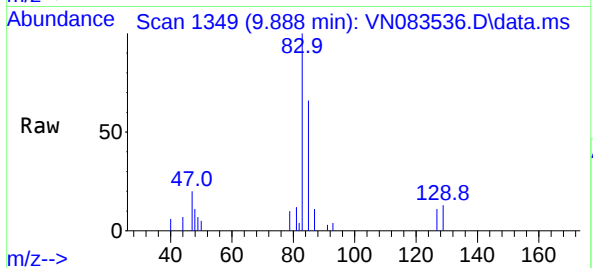
Tgt Ion: 83 Resp: 9378
Ion Ratio Lower Upper
83 100
55 0.0 36.6 109.9#
98 0.0 23.8 71.5#



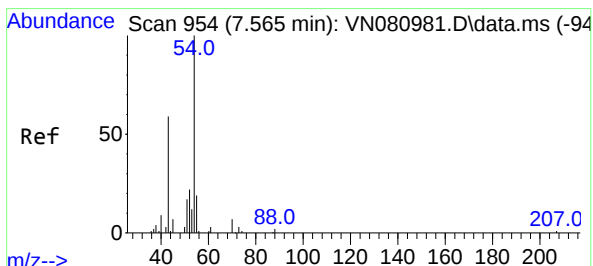
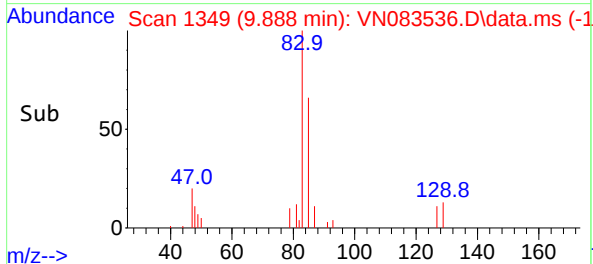
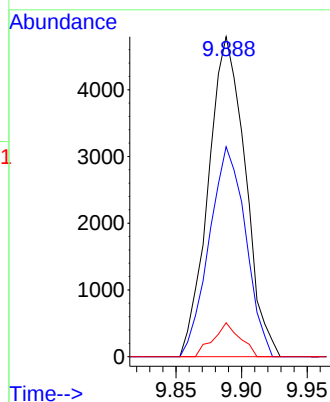


#41
Bromodichloromethane
Concen: 3.167 ug/l
RT: 9.888 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

Instrument :
MSVOA_N
ClientSampleId :

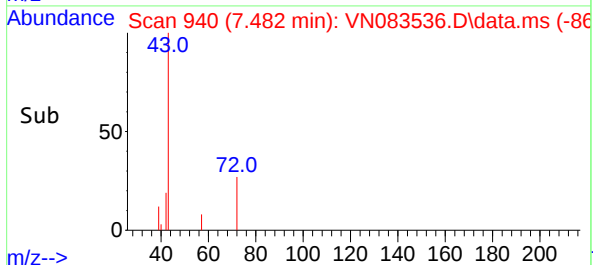
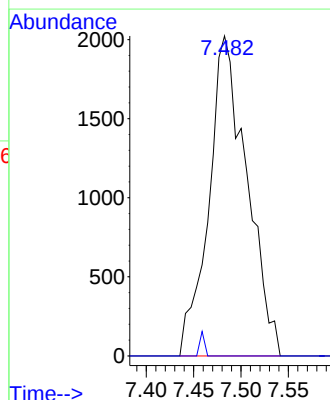
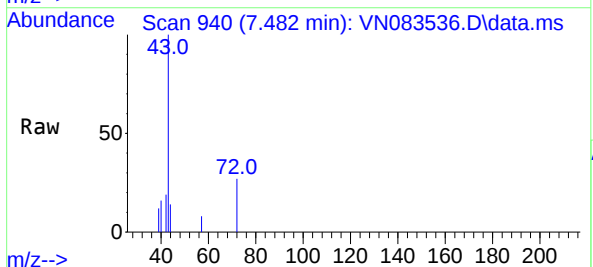


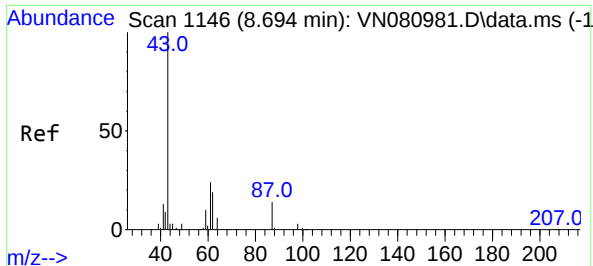
Tgt Ion: 83 Resp: 9378
Ion Ratio Lower Upper
83 100
85 65.6 49.4 74.2
127 10.6 7.3 10.9



#43
Ethyl Acetate
Concen: 2.216 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.082 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

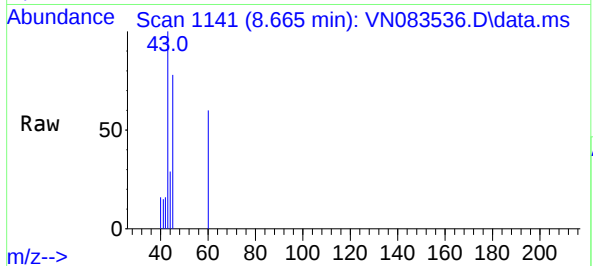
Tgt Ion: 43 Resp: 5649
Ion Ratio Lower Upper
43 100
45 0.0 10.6 15.8#



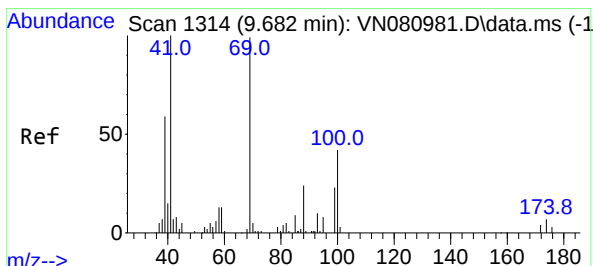
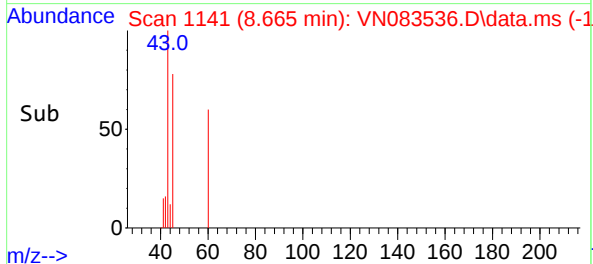
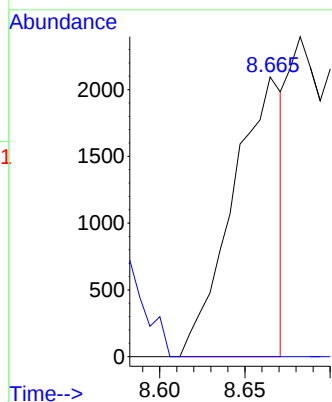


#44
Isopropyl Acetate
Concen: 0.702 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.030 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

Instrument :
MSVOA_N
ClientSampleId :

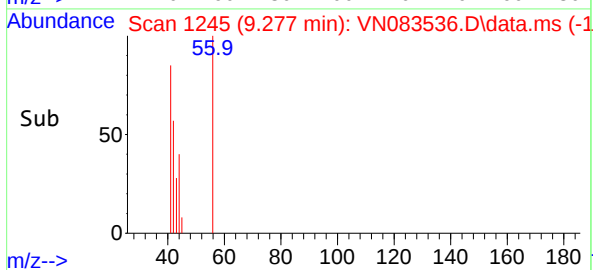
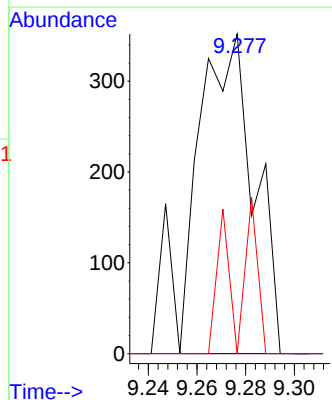
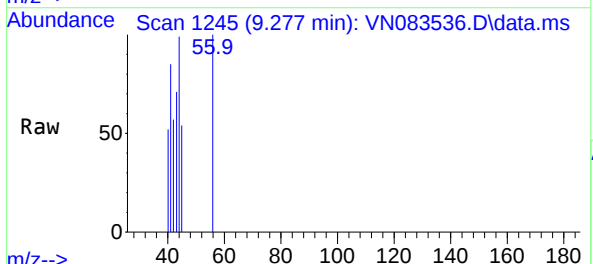


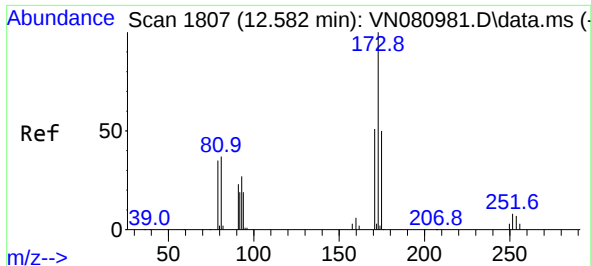
Tgt Ion: 43 Resp: 4226
Ion Ratio Lower Upper
43 100
61 33.9 25.0 37.4



#46
Methyl methacrylate
Concen: 0.244 ug/l
RT: 9.277 min Scan# 1245
Delta R.T. -0.406 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

Tgt Ion: 41 Resp: 544
Ion Ratio Lower Upper
41 100
69 0.0 51.1 153.3#
39 0.0 25.8 77.3#

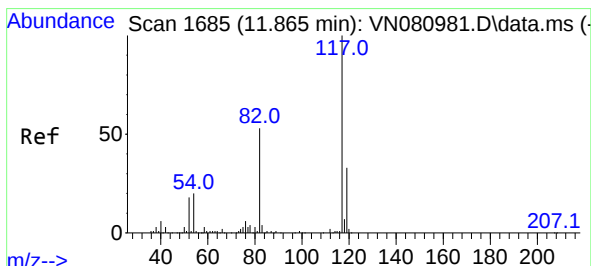
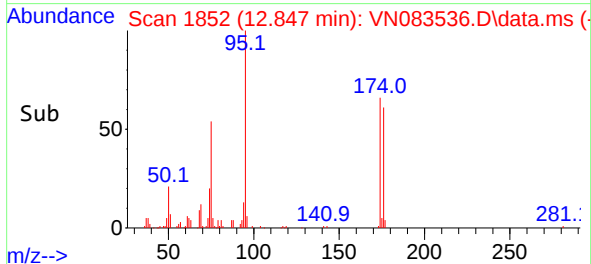
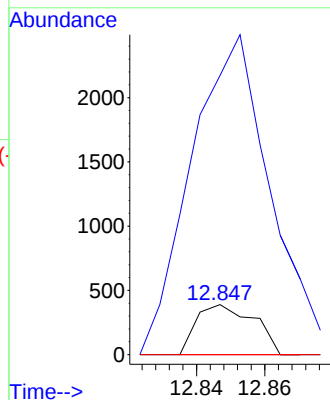
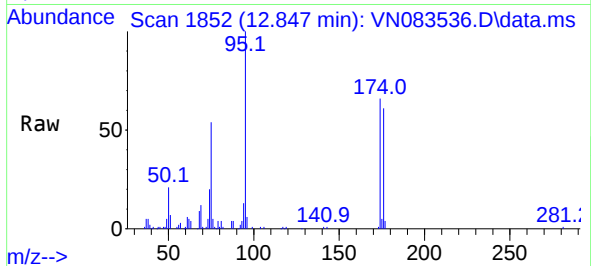




#56
Bromoform
Concen: 0.326 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.265 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

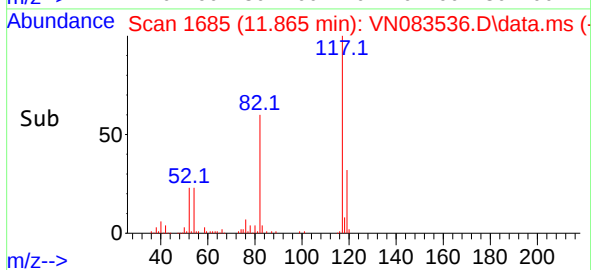
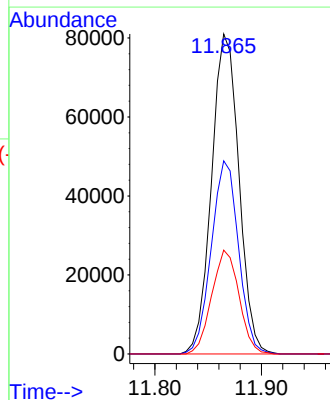
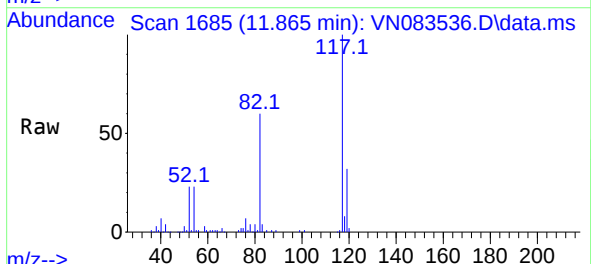
Instrument :
MSVOA_N
ClientSampleId :

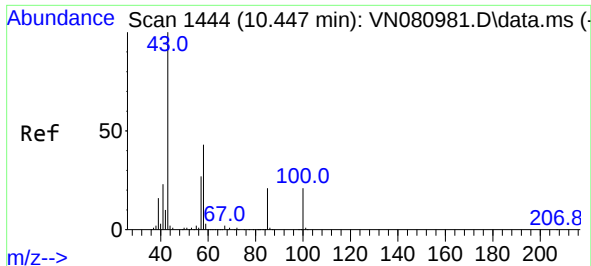
Tgt Ion:173 Resp: 458
Ion Ratio Lower Upper
173 100
175 874.9 40.0 60.0#
254 0.0 8.3 12.5#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

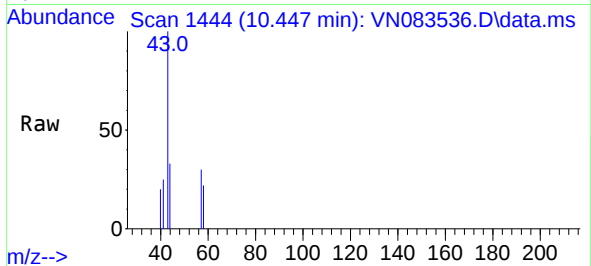
Tgt Ion:117 Resp: 144593
Ion Ratio Lower Upper
117 100
82 60.0 46.6 69.8
119 32.3 25.4 38.2



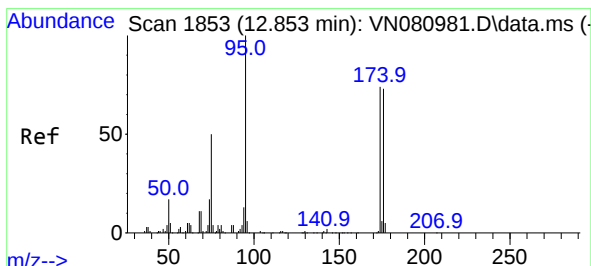
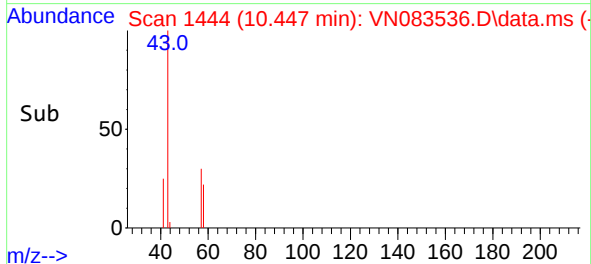
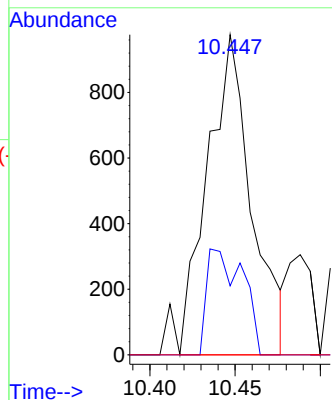


#58
4-Methyl-2-Pentanone
Concen: 0.684 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

Instrument :
MSVOA_N
ClientSampleId :

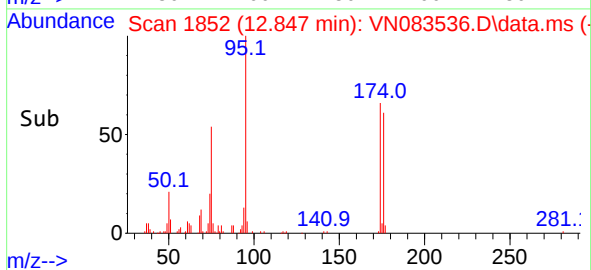
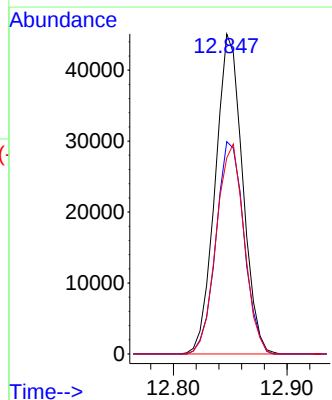
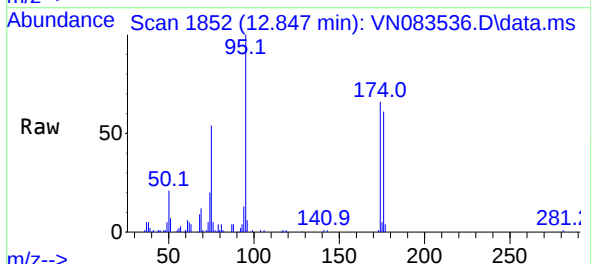


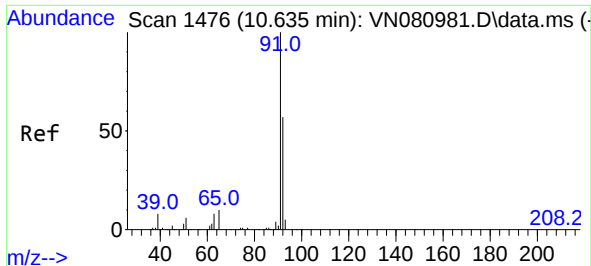
Tgt Ion: 43 Resp: 1753
Ion Ratio Lower Upper
43 100
58 17.1 36.5 54.7#
85 0.0 19.5 29.3#



#60
4-Bromofluorobenzene
Concen: 29.436 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.006 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

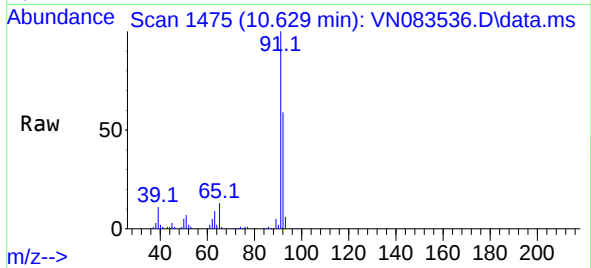
Tgt Ion: 95 Resp: 75353
Ion Ratio Lower Upper
95 100
174 68.1 60.5 90.7
176 66.8 57.8 86.6



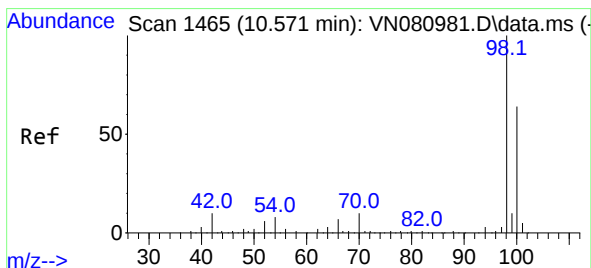
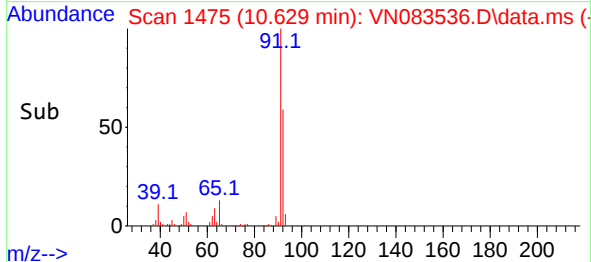
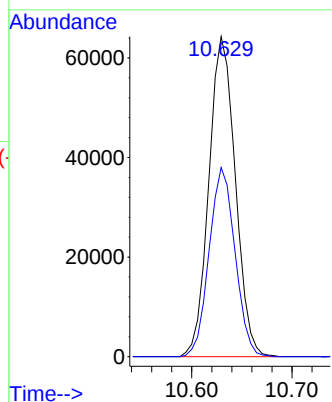


#62
Toluene
Concen: 14.102 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

Instrument :
MSVOA_N
ClientSampleId :

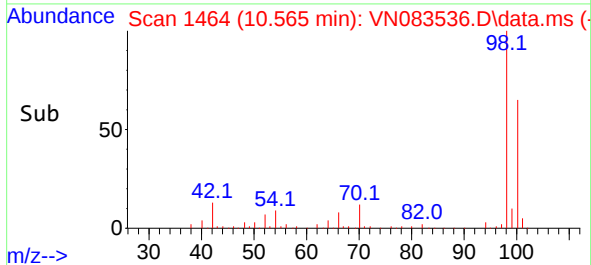
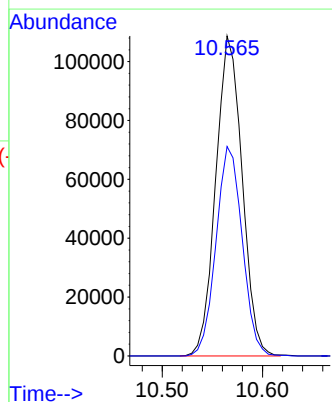
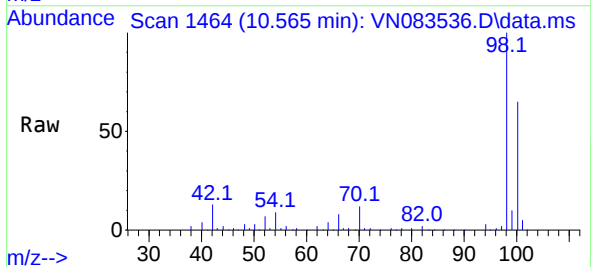


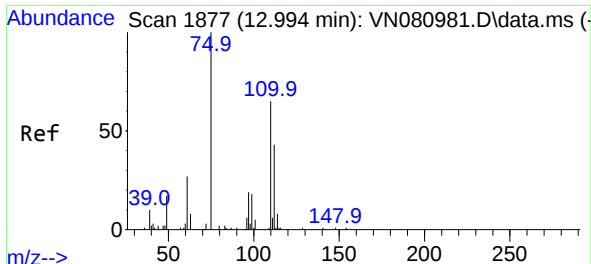
Tgt Ion: 91 Resp: 117947
Ion Ratio Lower Upper
91 100
92 57.8 46.5 69.7



#63
Toluene-d8
Concen: 29.707 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

Tgt Ion: 98 Resp: 198306
Ion Ratio Lower Upper
98 100
100 65.1 52.7 79.1

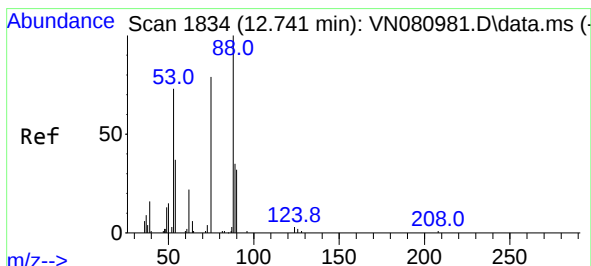
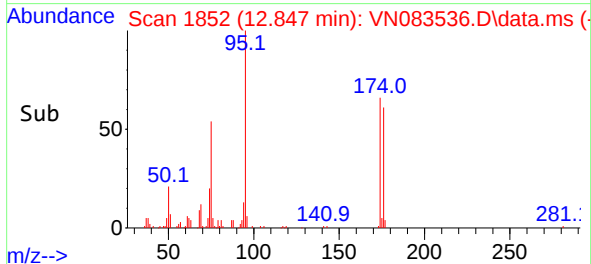
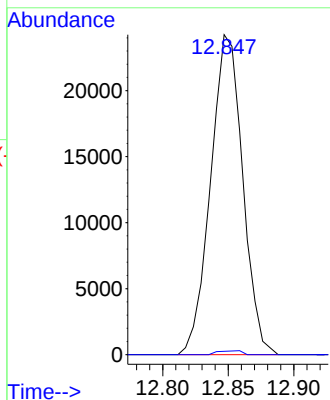
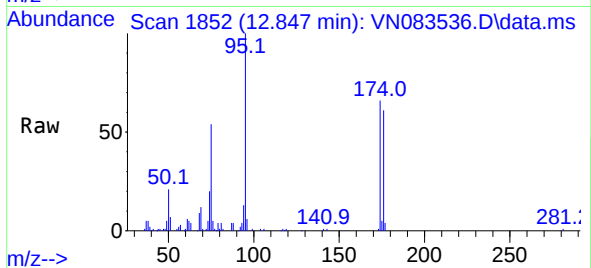




#72
1,2,3-Trichloropropane
Concen: 18.052 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

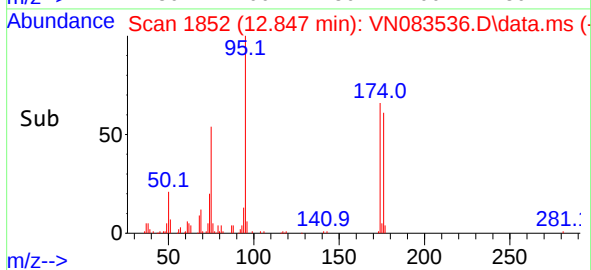
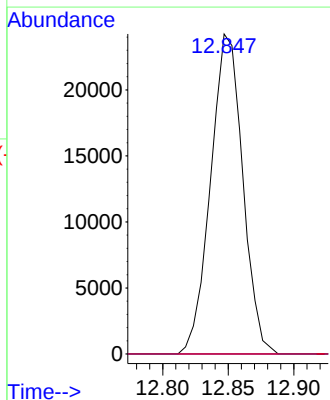
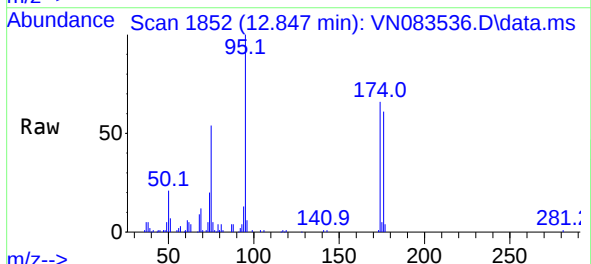
Instrument :
MSVOA_N
ClientSampleId :

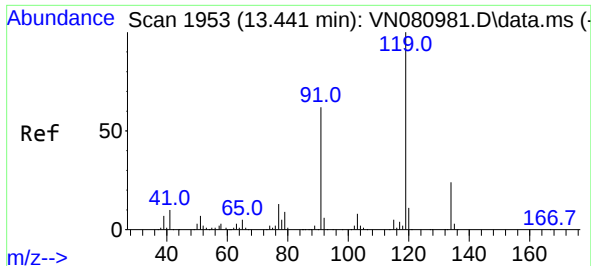
Tgt Ion: 75 Resp: 41303
Ion Ratio Lower Upper
75 100
77 0.9 0.0 367.6



#77
t-1,4-Dichloro-2-butene
Concen: 41.600 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.106 min
Lab File: VN083536.D
Acq: 28 Aug 2024 15:19

Tgt Ion: 75 Resp: 41303
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#





#79

tert-butylbenzene

Concen: 0.872 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.288 min

Lab File: VN083536.D

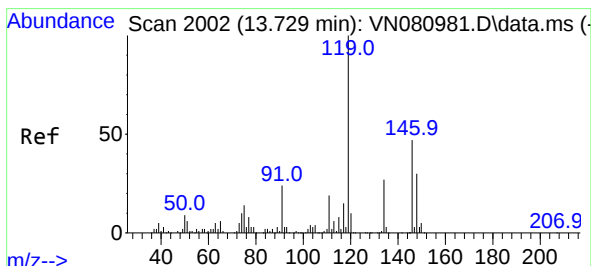
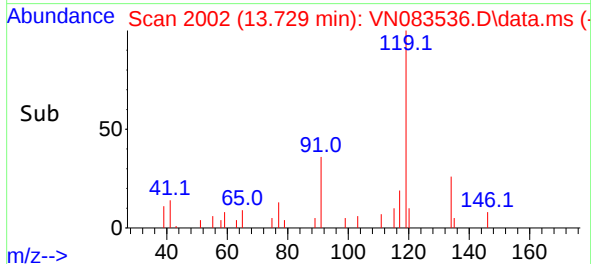
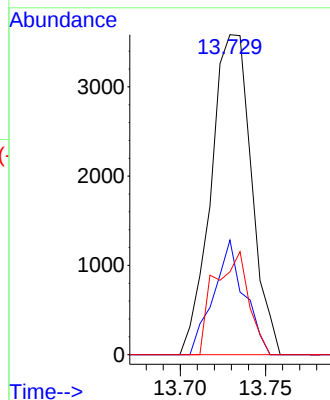
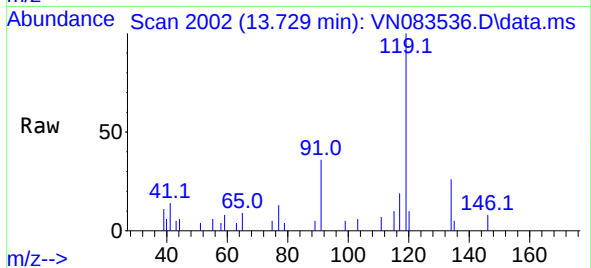
Acq: 28 Aug 2024 15:19

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:119	Resp:	5914
Ion	Ratio	Lower Upper
119	100	
91	27.3	0.0 138.8
134	16.9	0.0 48.6



#82

p-Isopropyltoluene

Concen: 0.765 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN083536.D

Acq: 28 Aug 2024 15:19

Tgt Ion:119	Resp:	5914
Ion	Ratio	Lower Upper
119	100	
134	16.9	0.0 49.2
91	27.3	0.0 48.8

