

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN043025\
 Data File : VN086437.D
 Acq On : 30 Apr 2025 15:27
 Operator : JC\MD
 Sample : PB167775ZHE#07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#07

Quant Time: May 01 01:35:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

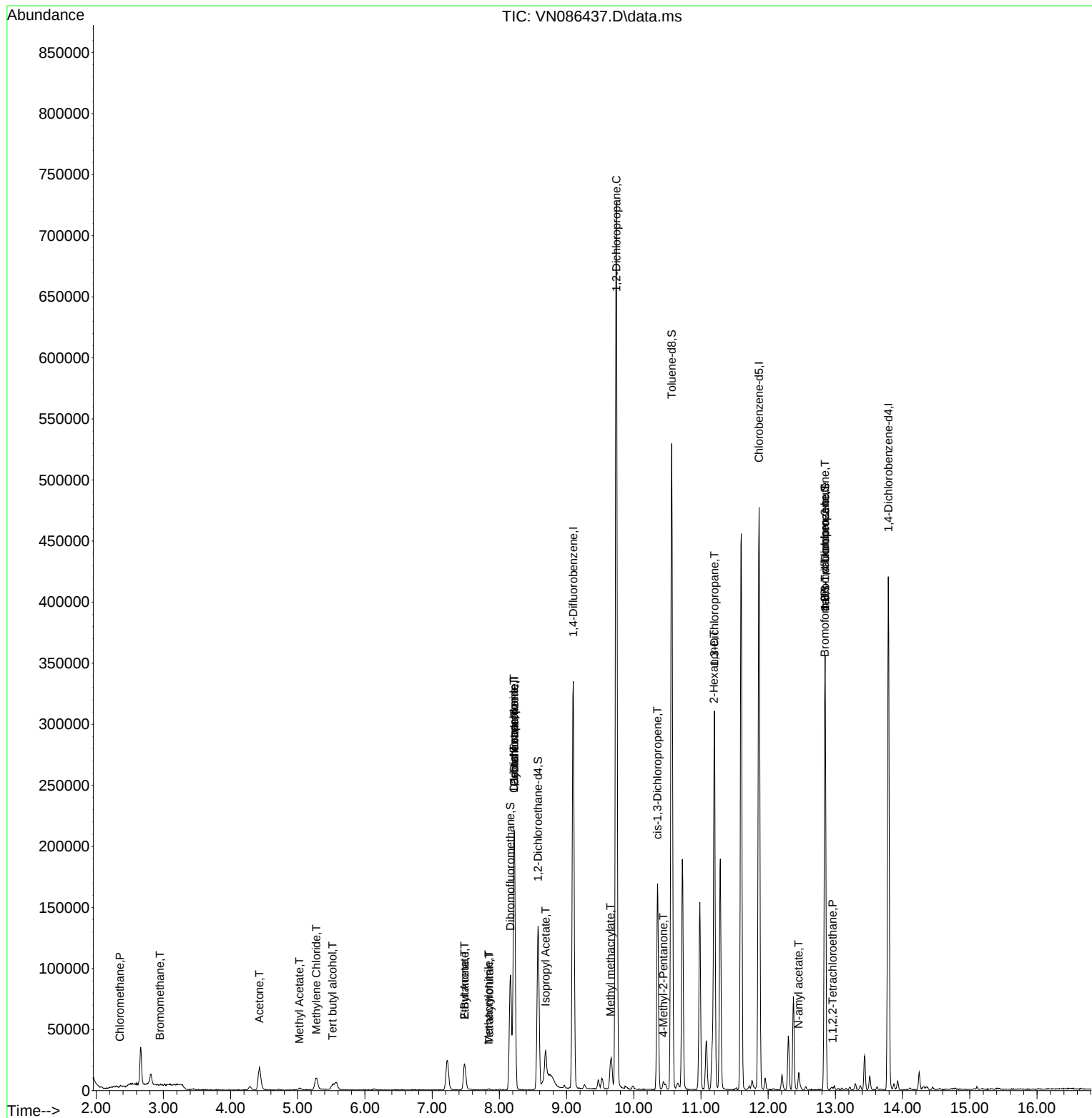
Internal Standards						
1) Pentafluorobenzene	8.224	168	155199	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	292164	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	271539	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	110513	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	109559	48.682	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.360%		
35) Dibromofluoromethane	8.165	113	70430	51.941	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	103.880%		
50) Toluene-d8	10.565	98	369478	50.984	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.960%		
62) 4-Bromofluorobenzene	12.847	95	127703	48.312	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	96.620%		
Target Compounds						Qvalue
3) Chloromethane	2.354	50	798	0.298	ug/l #	42
5) Bromomethane	2.948	94	241	0.210	ug/l #	3
11) Tert butyl alcohol	5.518	59	7889	19.212	ug/l #	78
16) Acetone	4.430	43	35630	41.021	ug/l	96
18) Methyl Acetate	5.024	43	3338	1.236	ug/l #	71
20) Methylene Chloride	5.277	84	7976	3.834	ug/l	92
25) 2-Butanone	7.483	43	35565	25.388	ug/l	97
29) Tetrahydrofuran	7.853	42	870	0.929	ug/l #	43
31) Cyclohexane	8.224	56	3445	0.945	ug/l #	24
36) 1,1-Dichloropropene	8.218	75	12883	4.757	ug/l #	49
37) Ethyl Acetate	7.483	43	35565	12.473	ug/l #	68
38) Carbon Tetrachloride	8.218	117	16319	6.327	ug/l #	16
41) Methacrylonitrile	7.841	41	386	0.234	ug/l #	36
43) Isopropyl Acetate	8.688	43	45158	7.088	ug/l #	78
45) 1,2-Dichloropropane	9.741	63	780	0.367	ug/l #	43
48) Methyl methacrylate	9.653	41	4870	1.945	ug/l #	43
51) 4-Methyl-2-Pentanone	10.441	43	3639	1.246	ug/l #	86
54) cis-1,3-Dichloropropene	10.353	75	32146	8.970	ug/l #	61
57) 1,3-Dichloropropane	11.200	76	3005	0.869	ug/l #	43
59) 2-Hexanone	11.194	43	82671	38.173	ug/l #	51
71) Bromoform	12.841	173	581	0.386	ug/l #	1
74) N-amyl acetate	12.453	43	9980	2.218	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	12.959	83	720	0.277	ug/l #	25
76) 1,2,3-Trichloropropane	12.847	75	65182	24.994	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	65182	60.025	ug/l #	10

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

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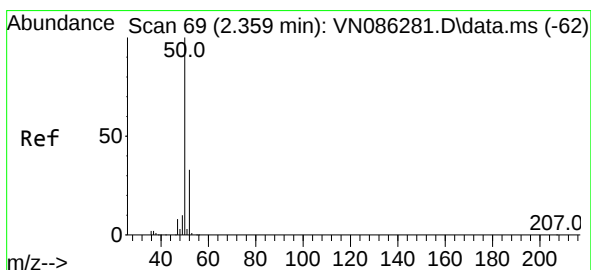
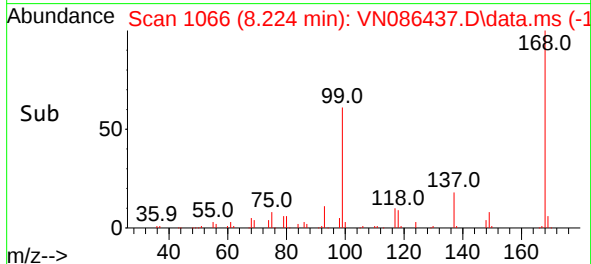
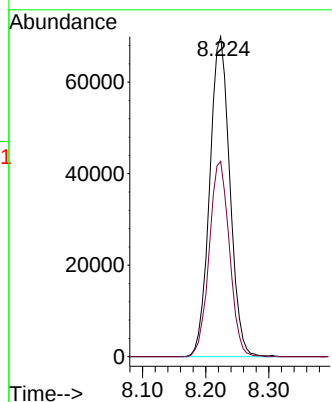
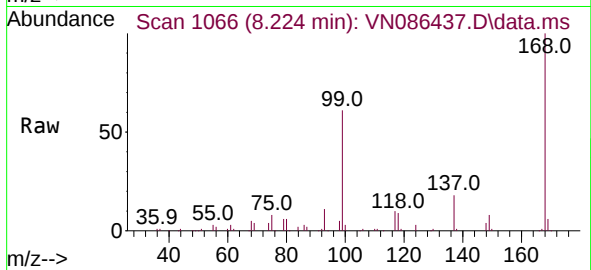




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086437.D
Acq: 30 Apr 2025 15:27

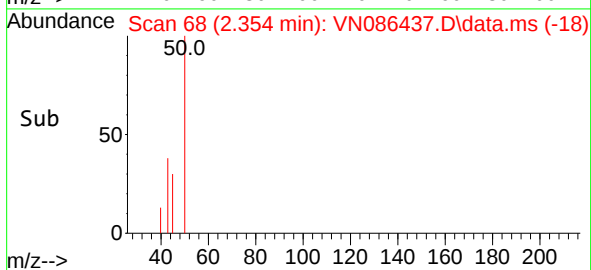
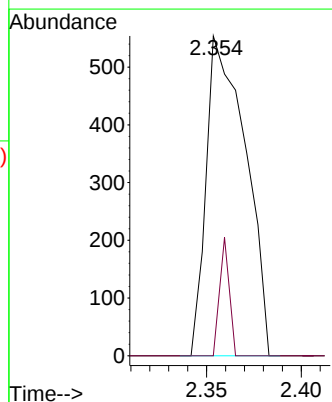
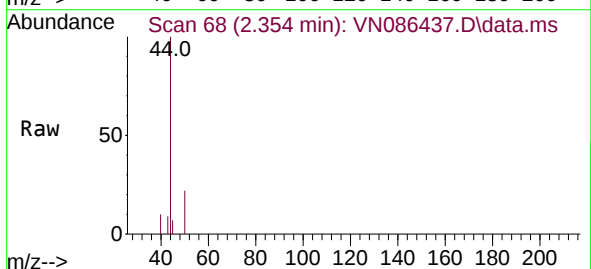
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#07

Tgt Ion:168 Resp: 155199
Ion Ratio Lower Upper
168 100
99 61.1 52.5 78.7



#3
Chloromethane
Concen: 0.298 ug/l
RT: 2.354 min Scan# 68
Delta R.T. -0.006 min
Lab File: VN086437.D
Acq: 30 Apr 2025 15:27

Tgt Ion: 50 Resp: 798
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

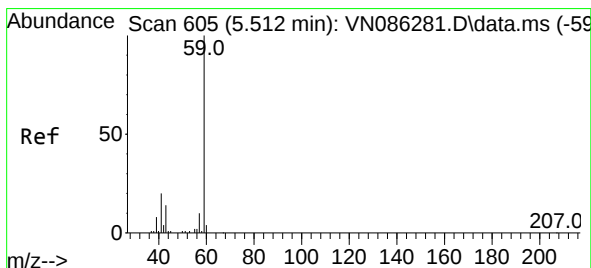
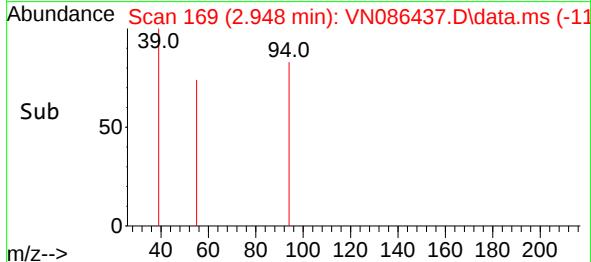
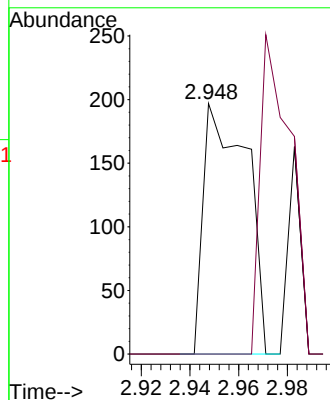
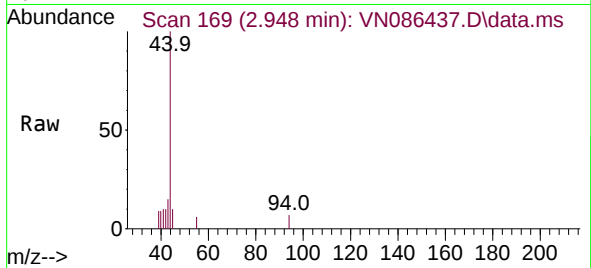




#5
Bromomethane
Concen: 0.210 ug/l
RT: 2.948 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086437.D
Acq: 30 Apr 2025 15:27

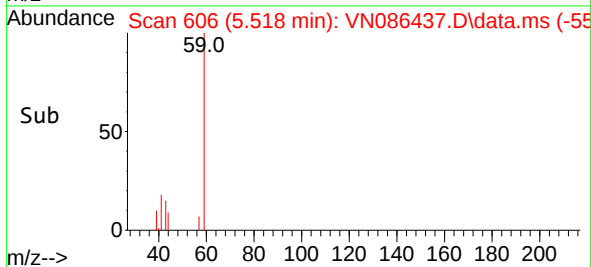
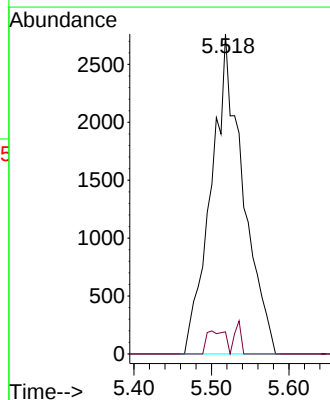
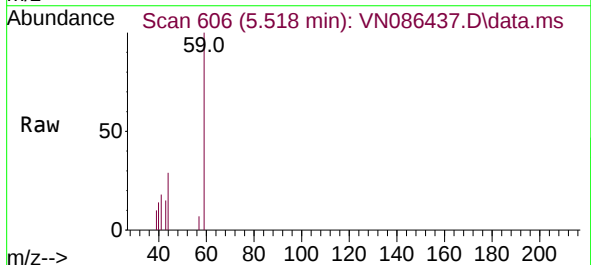
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#07

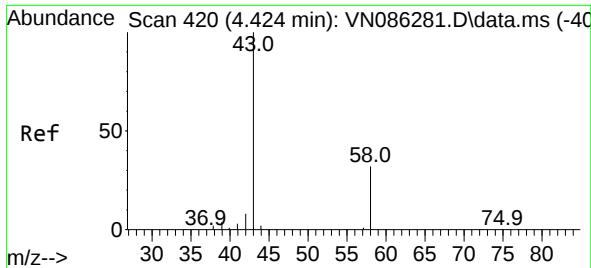
Tgt Ion: 94 Resp: 241
Ion Ratio Lower Upper
94 100
96 0.0 75.2 112.8#



#11
Tert butyl alcohol
Concen: 19.212 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN086437.D
Acq: 30 Apr 2025 15:27

Tgt Ion: 59 Resp: 7889
Ion Ratio Lower Upper
59 100
57 2.1 8.3 12.5#

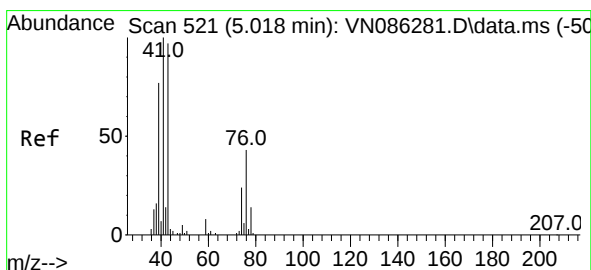
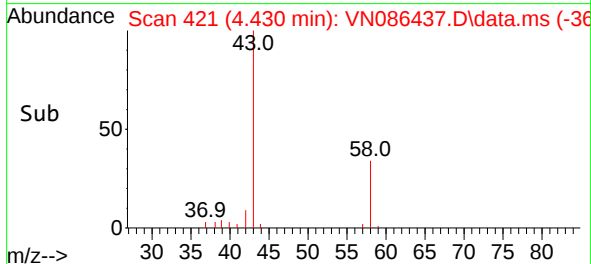
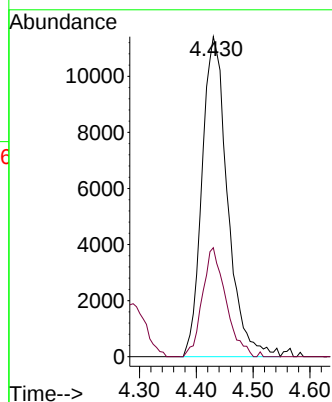
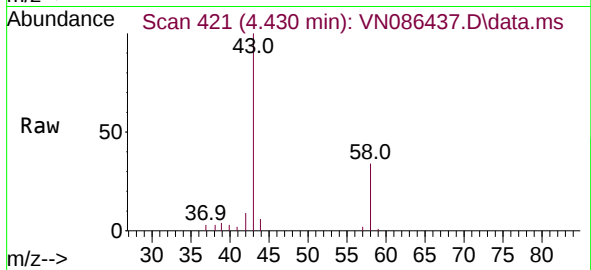




#16
Acetone
Concen: 41.021 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086437.D
Acq: 30 Apr 2025 15:27

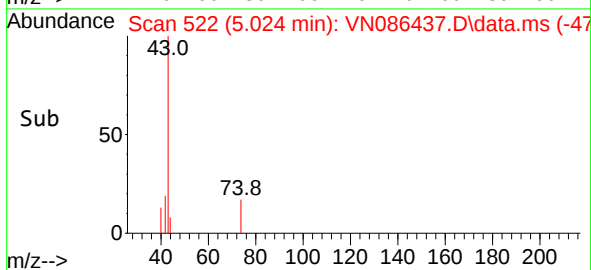
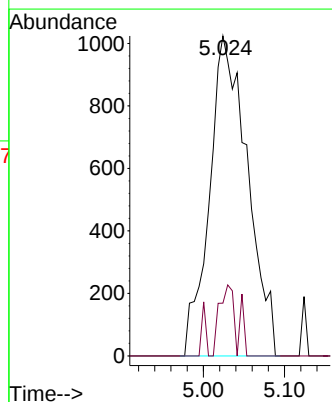
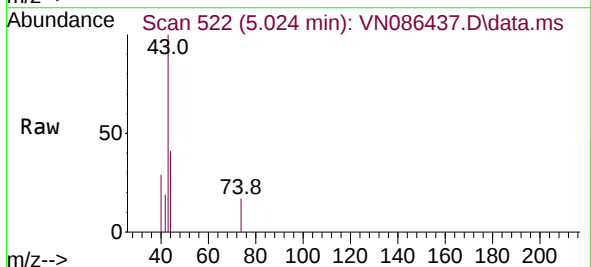
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#07

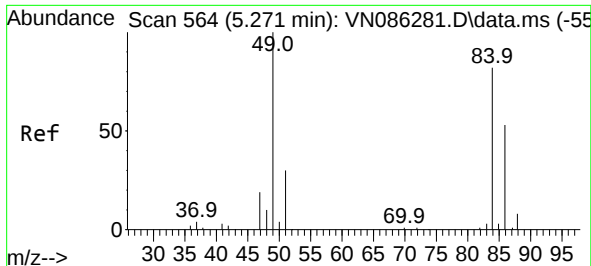
Tgt Ion: 43 Resp: 35630
Ion Ratio Lower Upper
43 100
58 34.0 25.3 37.9



#18
Methyl Acetate
Concen: 1.236 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN086437.D
Acq: 30 Apr 2025 15:27

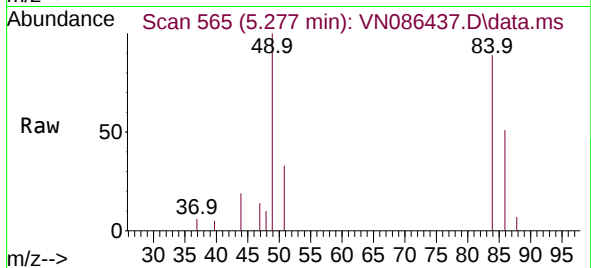
Tgt Ion: 43 Resp: 3338
Ion Ratio Lower Upper
43 100
74 10.2 19.8 29.6#



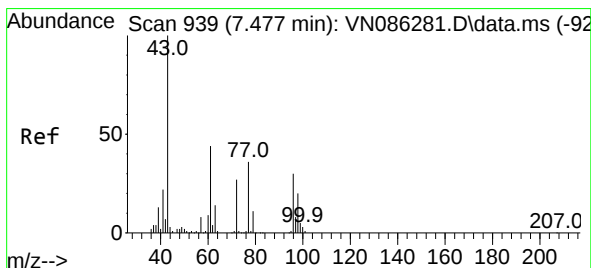
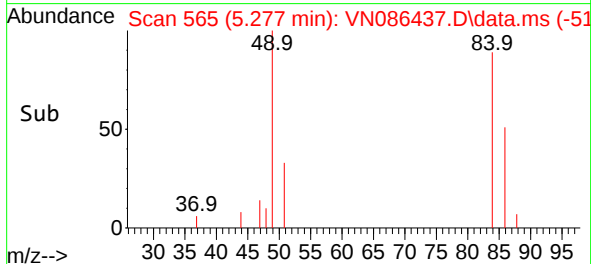
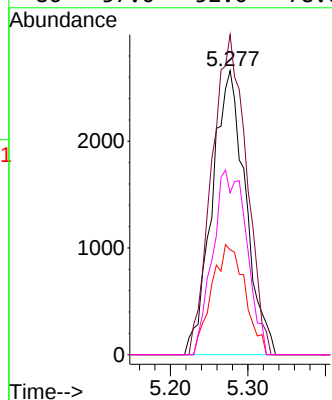


#20
Methylene Chloride
Concen: 3.834 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086437.D
Acq: 30 Apr 2025 15:27

Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#07

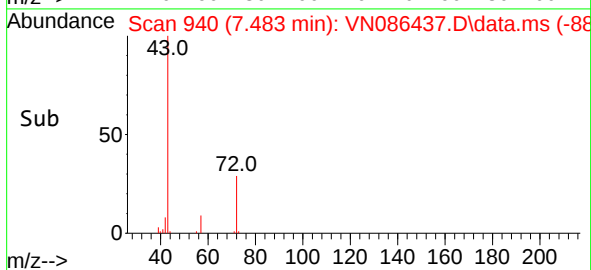
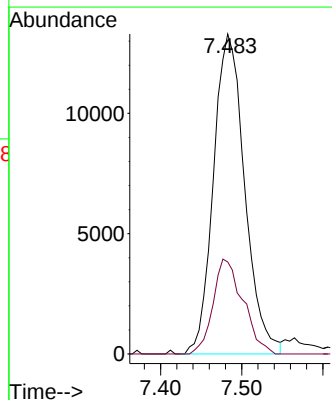
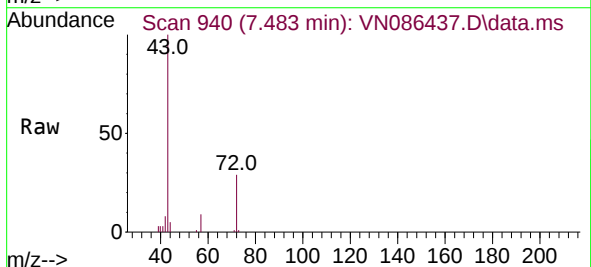


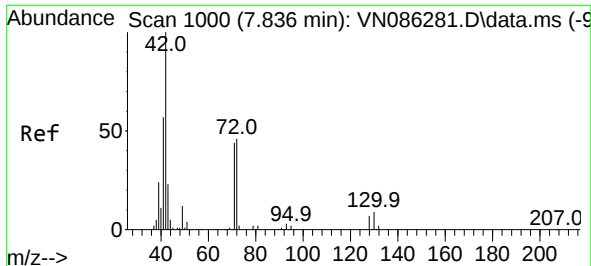
Tgt Ion	84	Resp:	7976
Ion	Ratio	Lower	Upper
84	100		
49	112.7	98.2	147.2
51	36.9	29.8	44.6
86	57.0	52.0	78.0



#25
2-Butanone
Concen: 25.388 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086437.D
Acq: 30 Apr 2025 15:27

Tgt Ion	43	Resp:	35565
Ion	Ratio	Lower	Upper
43	100		
72	28.7	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.929 ug/l

RT: 7.853 min Scan# 1066

Delta R.T. 0.018 min

Lab File: VN086437.D

Acq: 30 Apr 2025 15:27

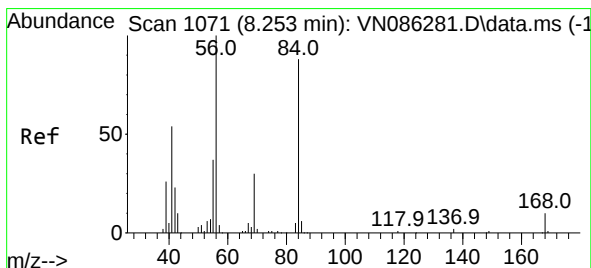
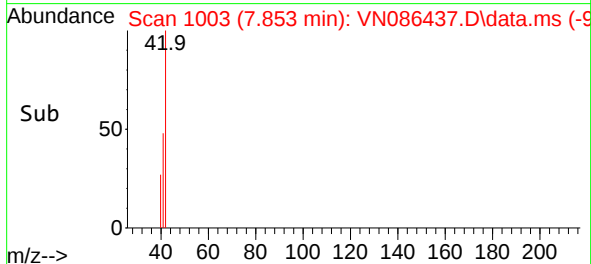
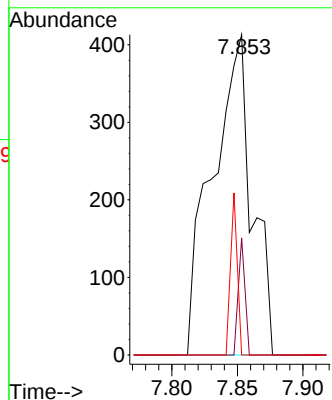
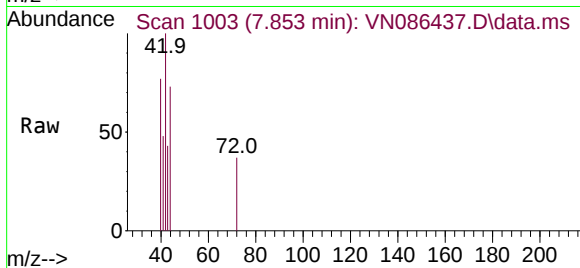
Instrument :

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ClientSampleId :

PB167775ZHE#07

Tgt Ion:	42	Resp:	870
Ion	Ratio	Lower	Upper
42	100		
72	6.1	36.2	54.4#
71	8.5	34.0	51.0#



#31

Cyclohexane

Concen: 0.945 ug/l

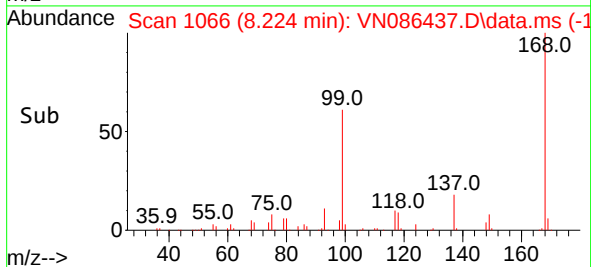
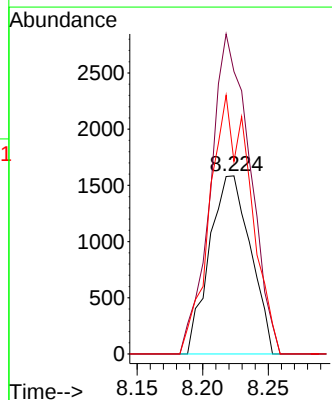
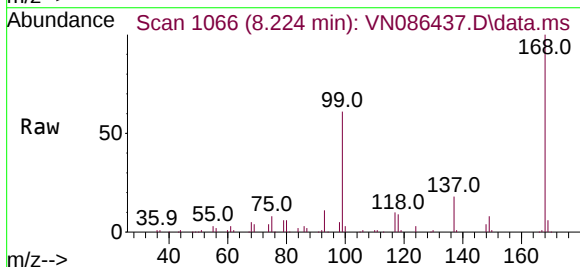
RT: 8.224 min Scan# 1066

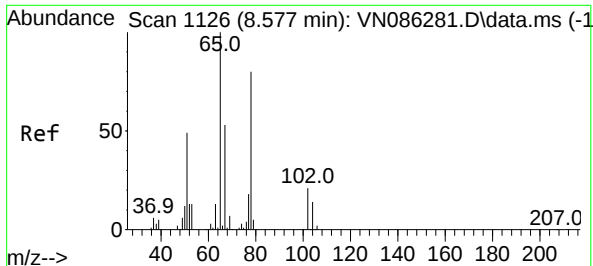
Delta R.T. -0.029 min

Lab File: VN086437.D

Acq: 30 Apr 2025 15:27

Tgt Ion:	56	Resp:	3445
Ion	Ratio	Lower	Upper
56	100		
69	158.5	24.2	36.2#
84	108.0	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 48.682 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086437.D

Acq: 30 Apr 2025 15:27

Instrument :

MSVOA_N

ClientSampleId :

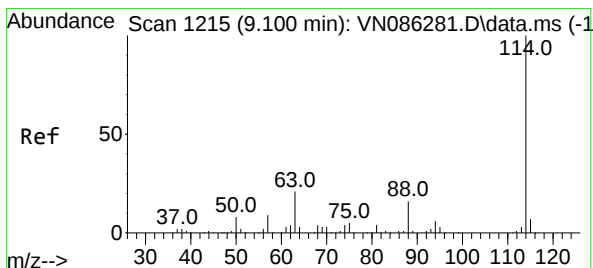
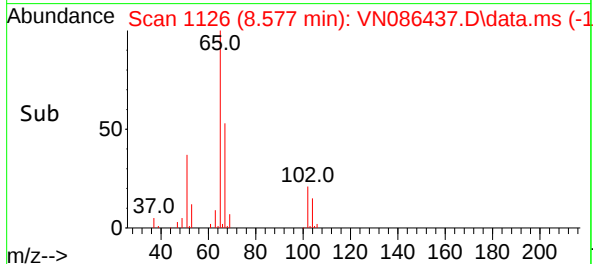
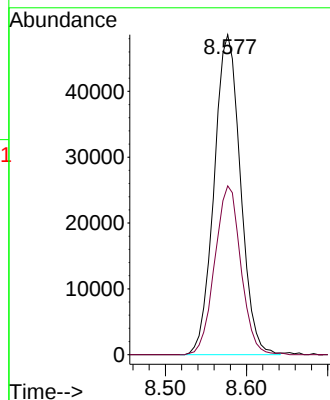
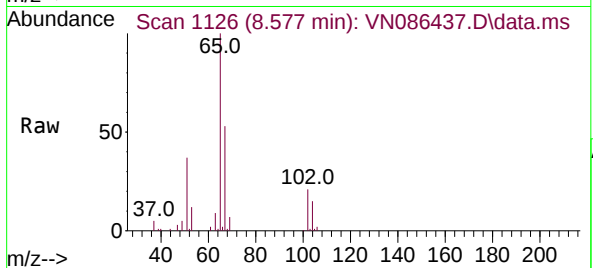
PB167775ZHE#07

Tgt Ion: 65 Resp: 109559

Ion Ratio Lower Upper

65 100

67 52.3 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086437.D

Acq: 30 Apr 2025 15:27

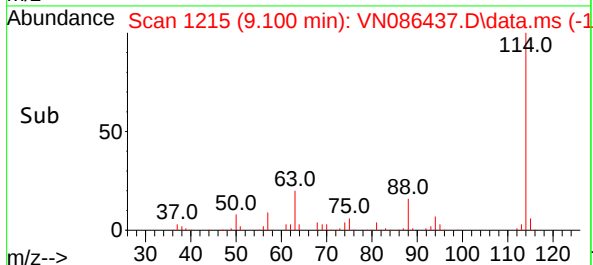
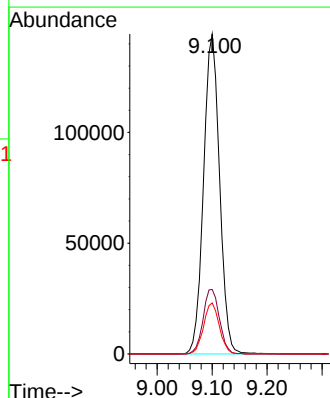
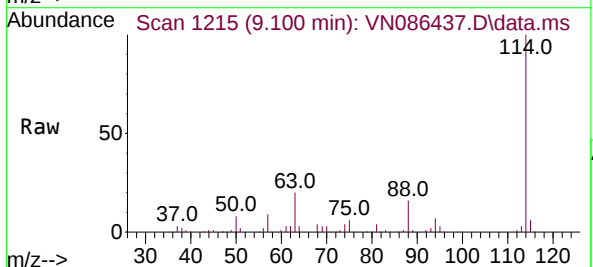
Tgt Ion: 114 Resp: 292164

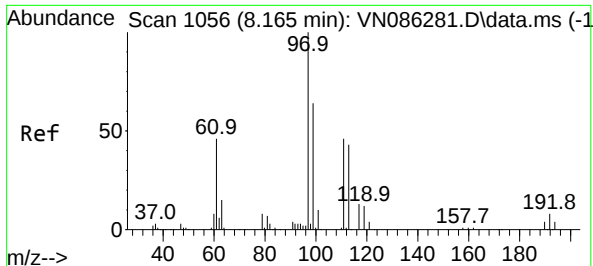
Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.6

88 15.9 0.0 31.8





#35

Dibromofluoromethane

Concen: 51.941 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086437.D

Acq: 30 Apr 2025 15:27

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#07

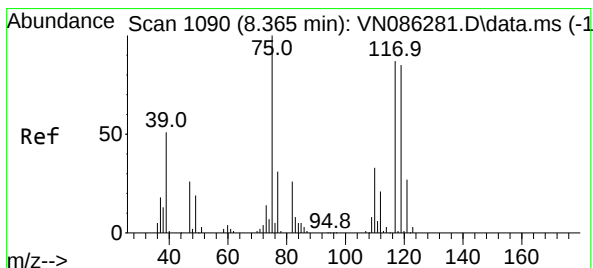
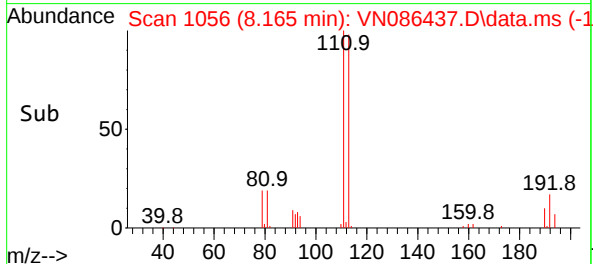
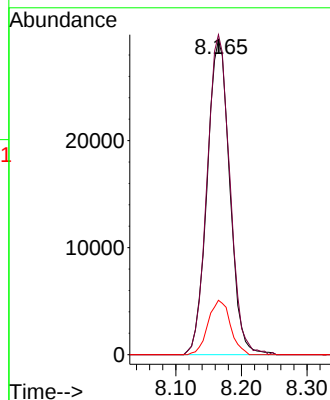
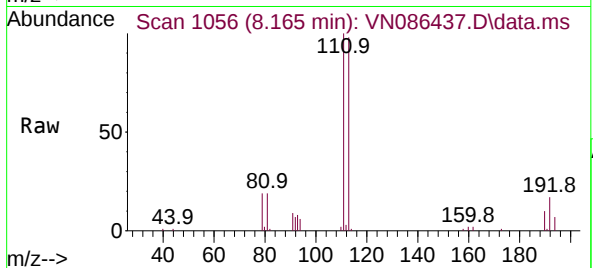
Tgt Ion:113 Resp: 70430

Ion Ratio Lower Upper

113 100

111 102.2 83.4 125.0

192 17.0 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.757 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086437.D

Acq: 30 Apr 2025 15:27

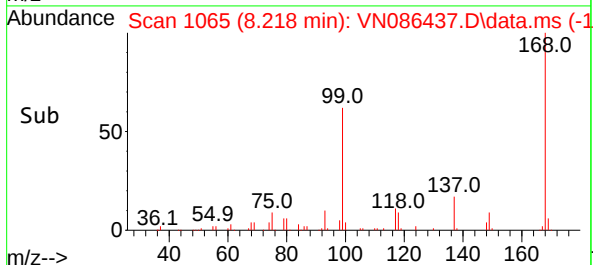
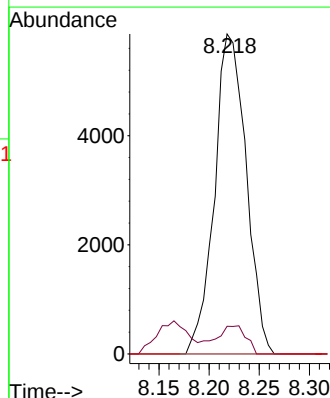
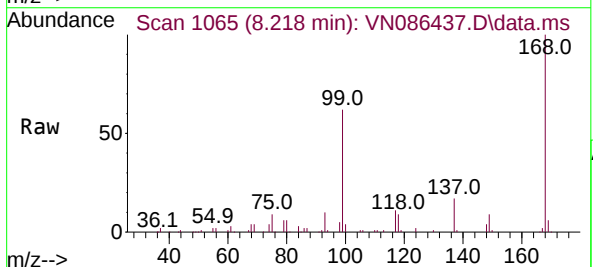
Tgt Ion: 75 Resp: 12883

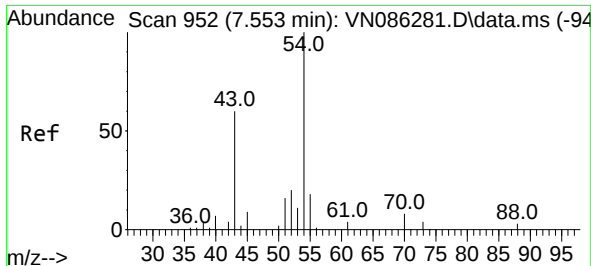
Ion Ratio Lower Upper

75 100

110 7.4 16.8 50.4#

77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 12.473 ug/l

RT: 7.483 min Scan# 94

Delta R.T. -0.071 min

Lab File: VN086437.D

Acq: 30 Apr 2025 15:27

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#07

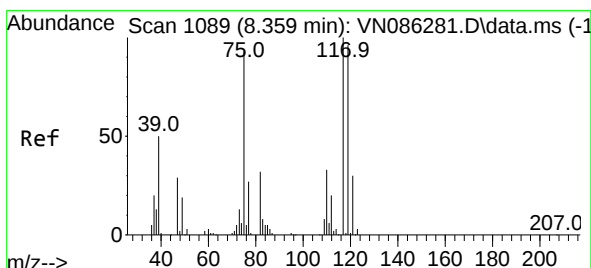
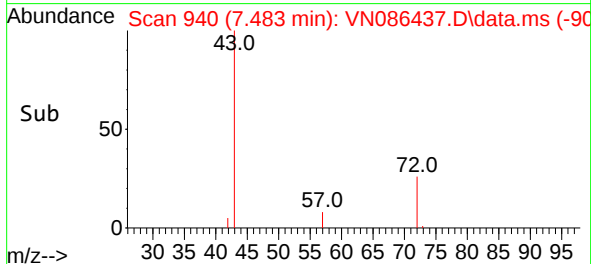
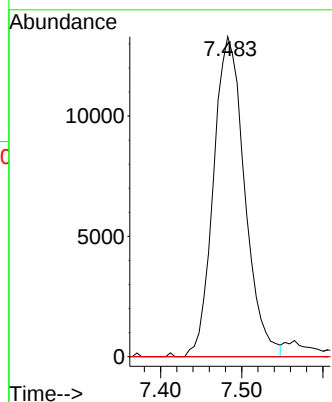
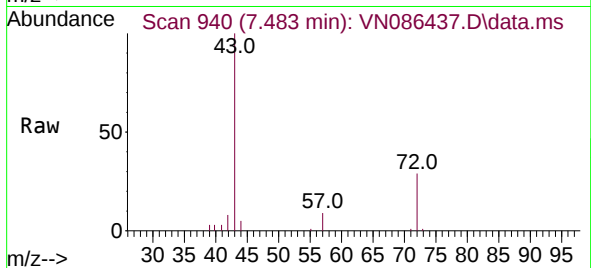
Tgt Ion: 43 Resp: 35565

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 9.2 13.8#



#38

Carbon Tetrachloride

Concen: 6.327 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN086437.D

Acq: 30 Apr 2025 15:27

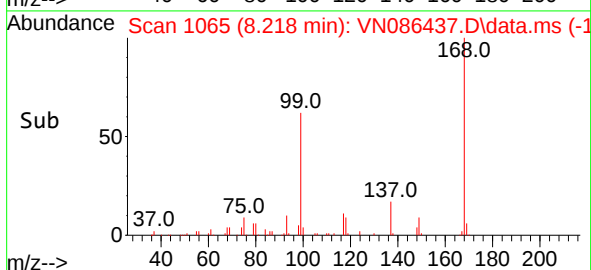
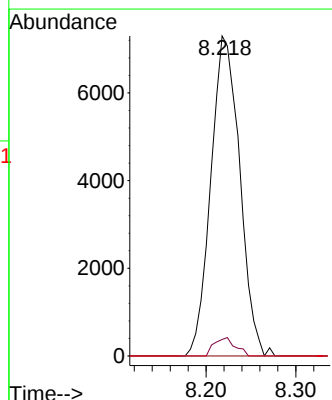
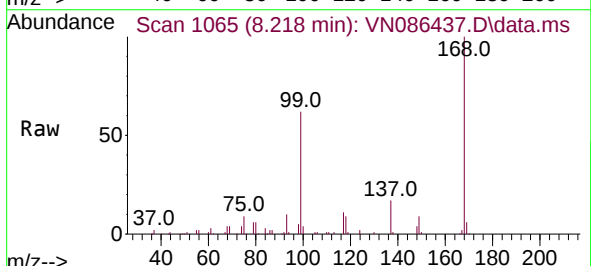
Tgt Ion: 117 Resp: 16319

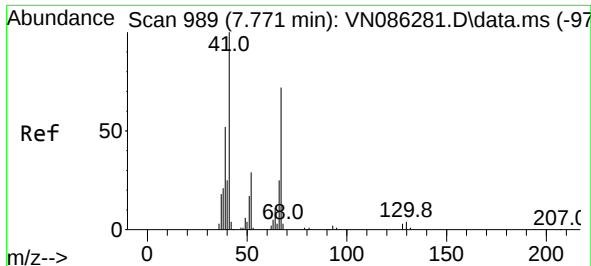
Ion Ratio Lower Upper

117 100

119 5.2 76.8 115.2#

121 0.0 23.8 35.8#

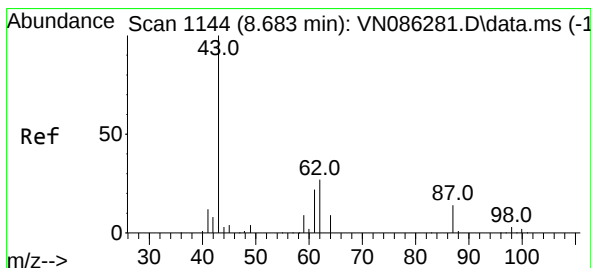
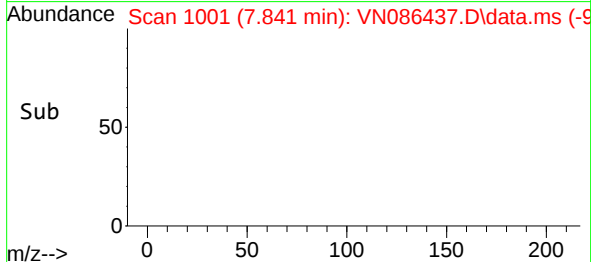
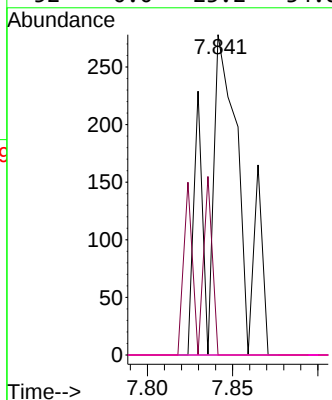
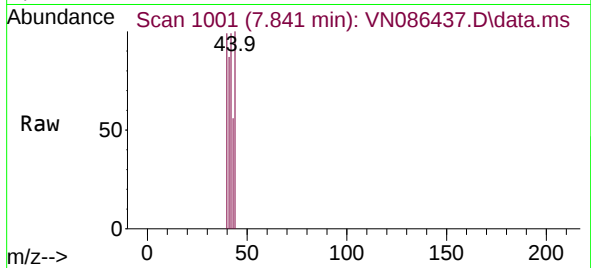




#41
Methacrylonitrile
Concen: 0.234 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.071 min
Lab File: VN086437.D
Acq: 30 Apr 2025 15:27

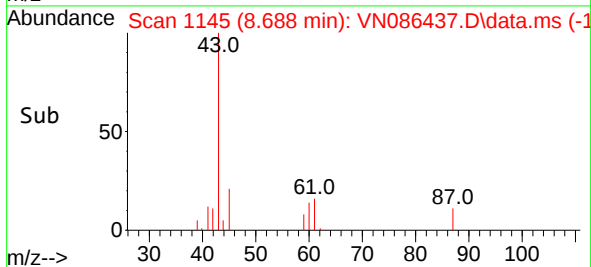
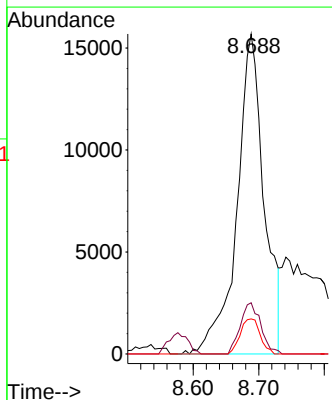
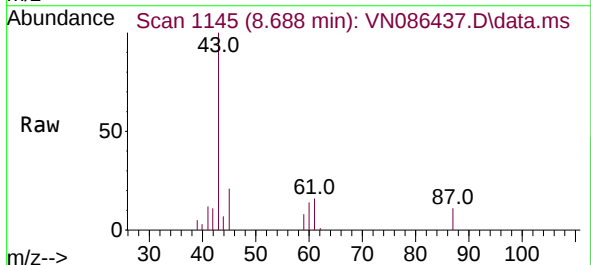
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#07

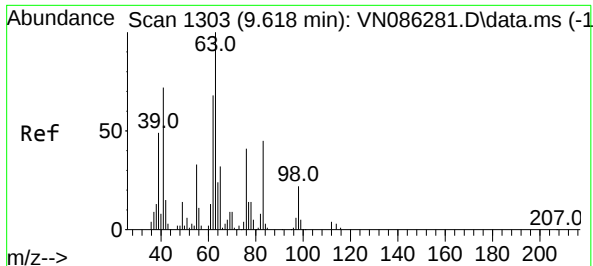
Tgt Ion: 41	Resp: 386
Ion Ratio	Lower Upper
41 100	
39 28.0	43.0 64.4#
67 0.0	58.8 88.2#
52 0.0	23.2 34.8#



#43
Isopropyl Acetate
Concen: 7.088 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086437.D
Acq: 30 Apr 2025 15:27

Tgt Ion: 43	Resp: 45158
Ion Ratio	Lower Upper
43 100	
61 12.1	20.5 30.7#
87 8.0	10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.367 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.124 min

Lab File: VN086437.D

Acq: 30 Apr 2025 15:27

Instrument :

MSVOA_N

ClientSampleId :

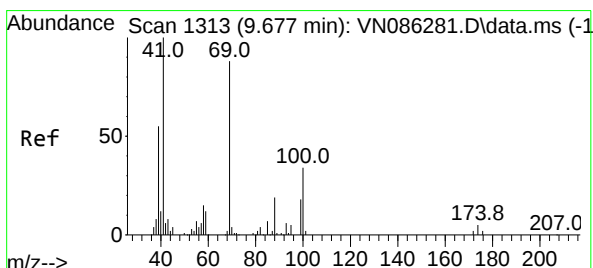
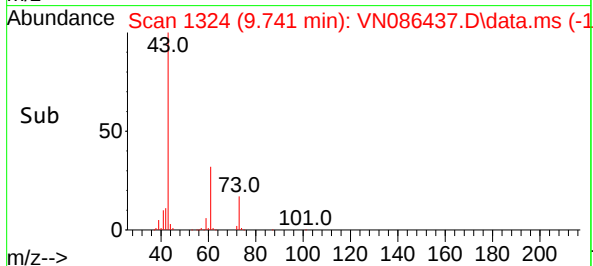
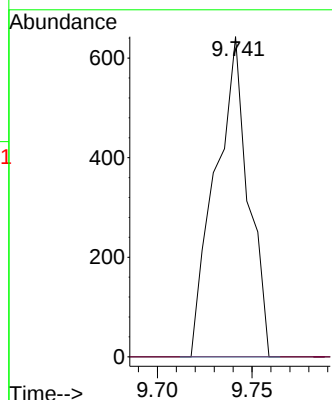
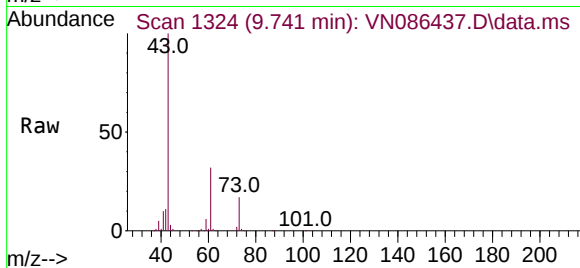
PB167775ZHE#07

Tgt Ion: 63 Resp: 780

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 1.945 ug/l

RT: 9.653 min Scan# 1309

Delta R.T. -0.024 min

Lab File: VN086437.D

Acq: 30 Apr 2025 15:27

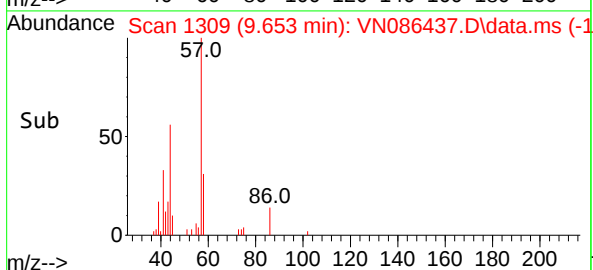
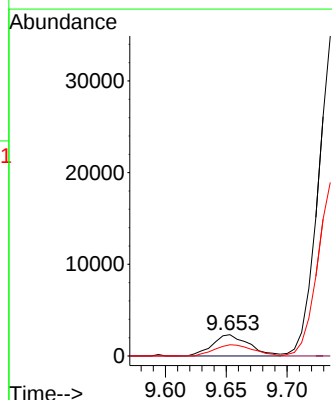
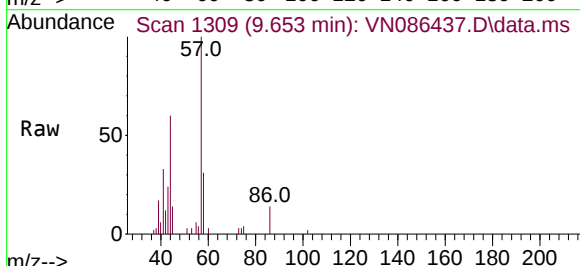
Tgt Ion: 41 Resp: 4870

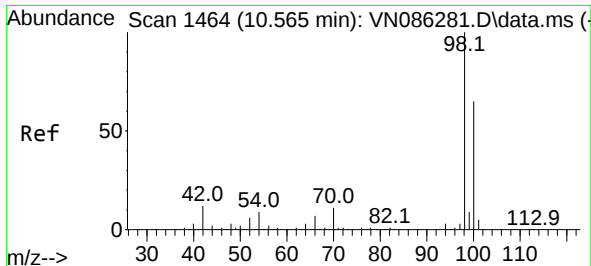
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 55.2 45.2 67.8

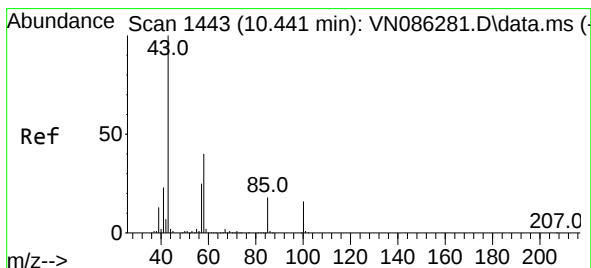
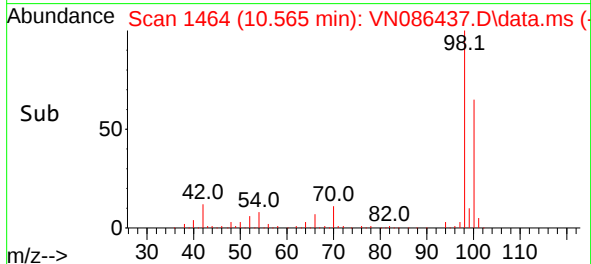
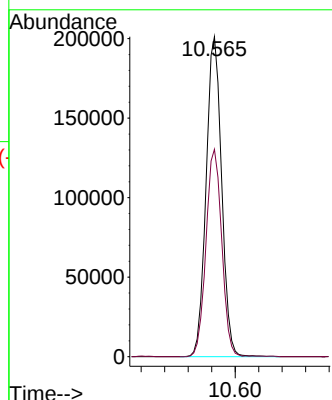
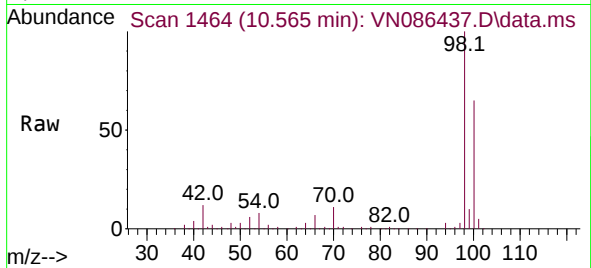




#50
Toluene-d8
Concen: 50.984 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086437.D
Acq: 30 Apr 2025 15:27

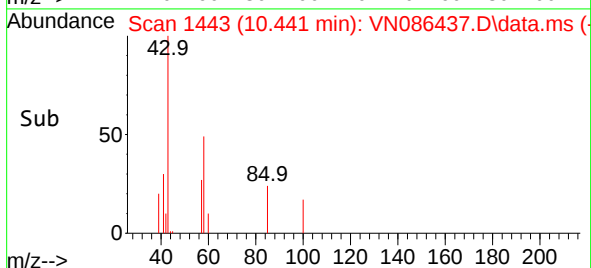
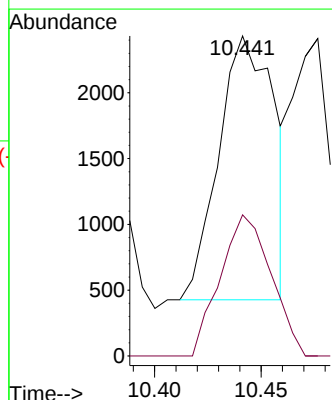
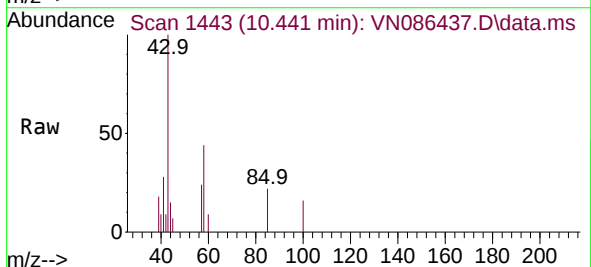
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#07

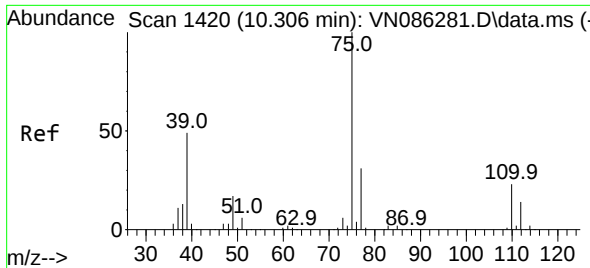
Tgt Ion: 98 Resp: 369478
Ion Ratio Lower Upper
98 100
100 66.0 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.246 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086437.D
Acq: 30 Apr 2025 15:27

Tgt Ion: 43 Resp: 3639
Ion Ratio Lower Upper
43 100
58 48.9 32.2 48.4#

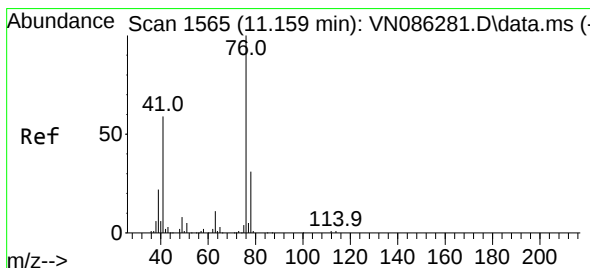
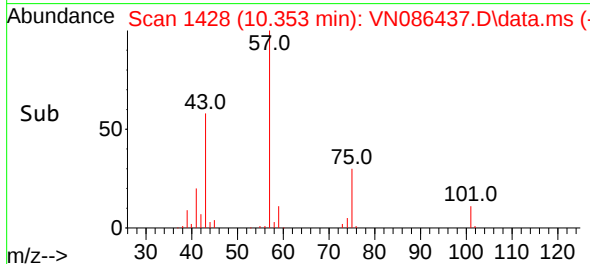
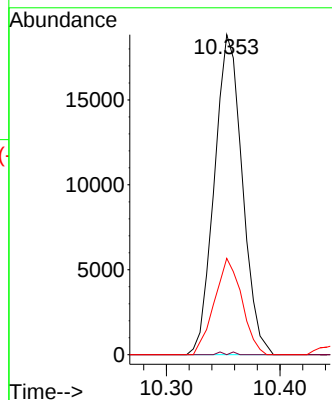
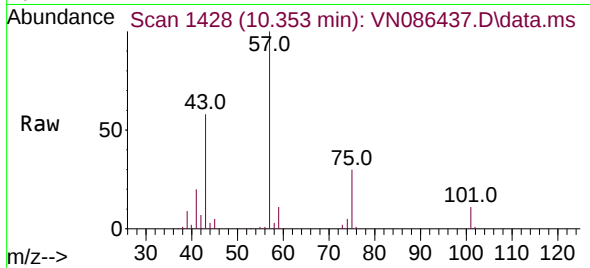




#54
 cis-1,3-Dichloropropene
 Concen: 8.970 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086437.D
 Acq: 30 Apr 2025 15:27

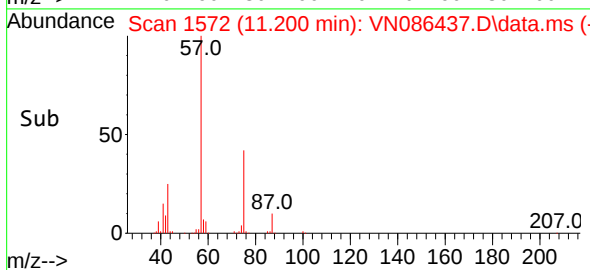
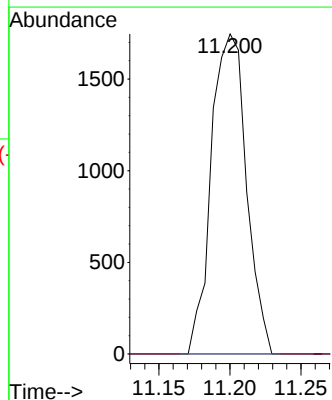
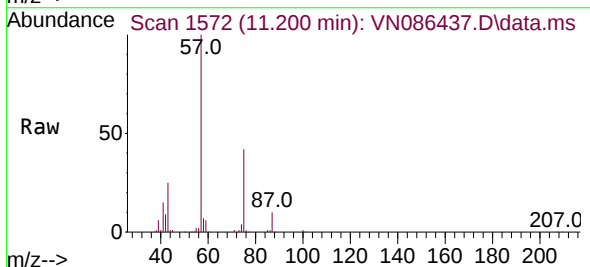
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#07

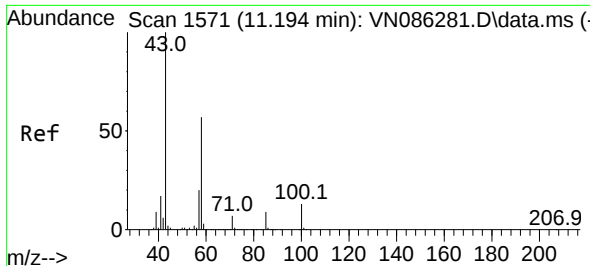
Tgt Ion: 75 Resp: 32146
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 30.1 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.869 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086437.D
 Acq: 30 Apr 2025 15:27

Tgt Ion: 76 Resp: 3005
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

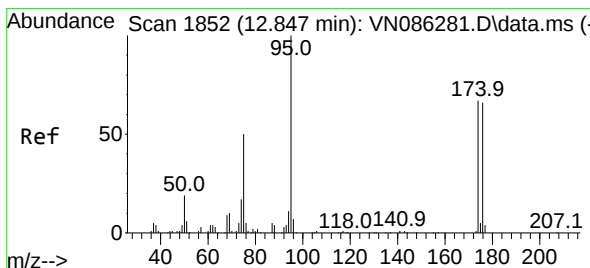
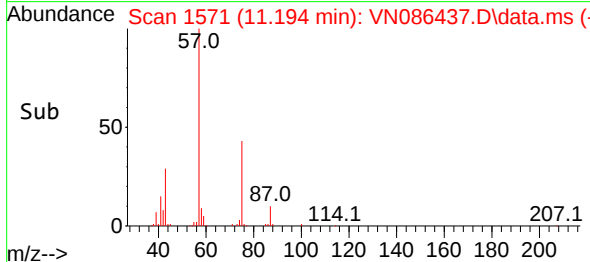
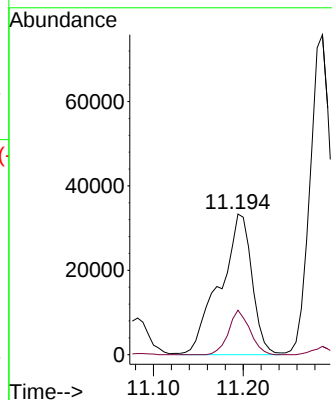
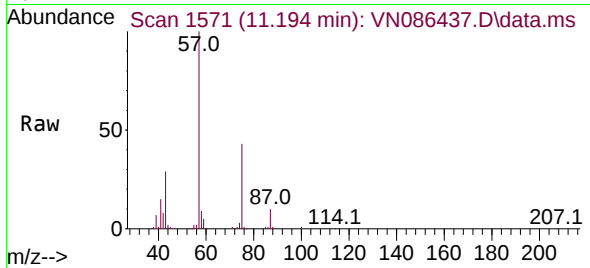




#59
2-Hexanone
Concen: 38.173 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN086437.D
Acq: 30 Apr 2025 15:27

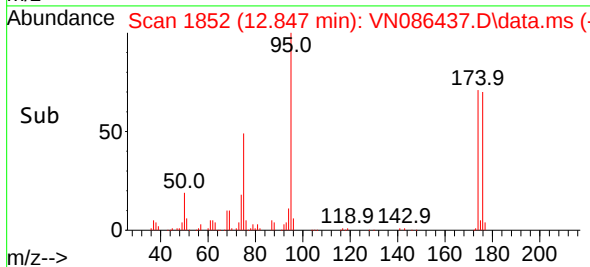
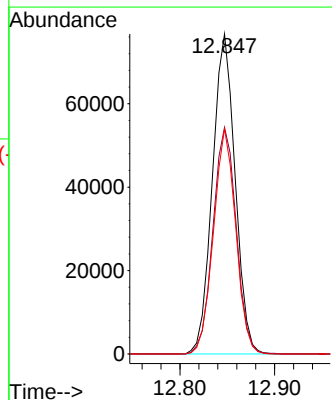
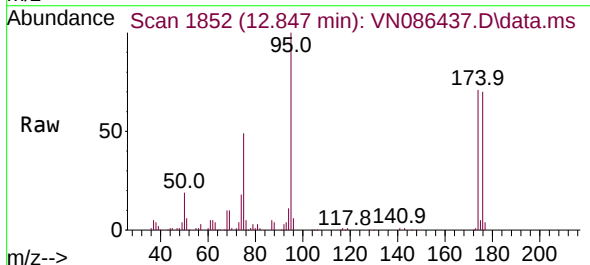
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#07

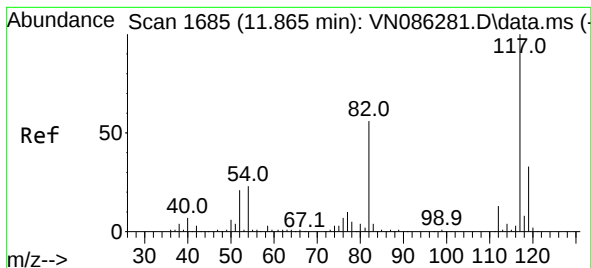
Tgt Ion: 43 Resp: 82671
Ion Ratio Lower Upper
43 100
58 21.0 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 48.312 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086437.D
Acq: 30 Apr 2025 15:27

Tgt Ion: 95 Resp: 127703
Ion Ratio Lower Upper
95 100
174 72.5 0.0 133.4
176 69.0 0.0 129.2

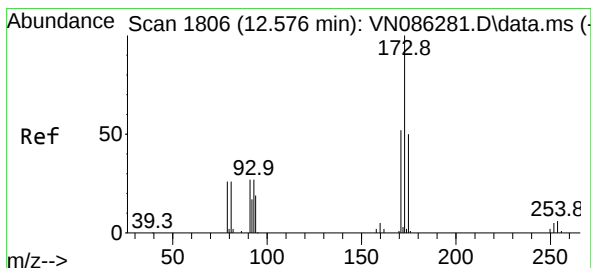
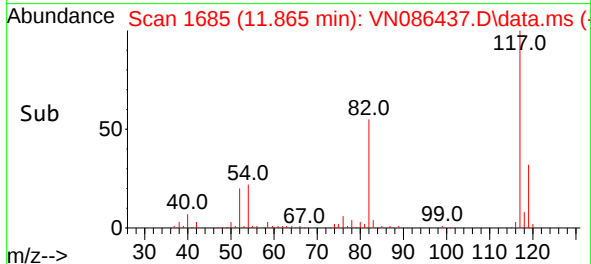
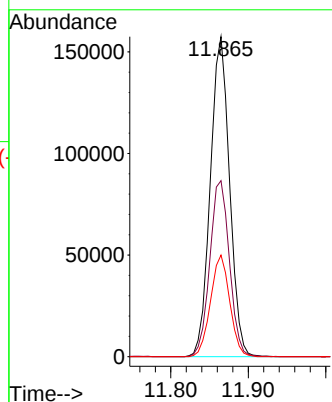
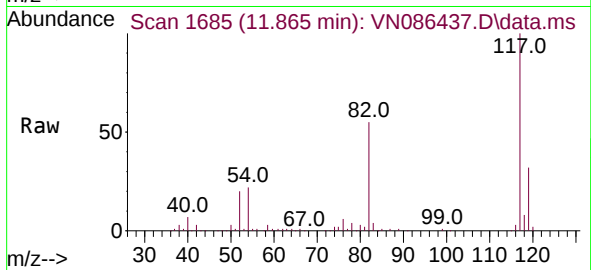




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN086437.D
Acq: 30 Apr 2025 15:27

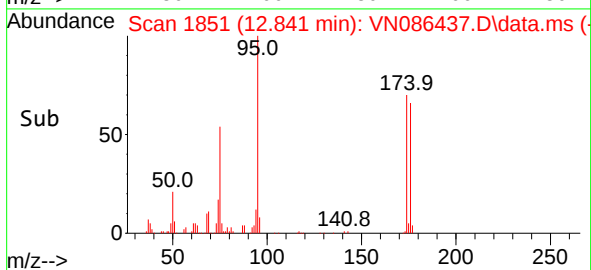
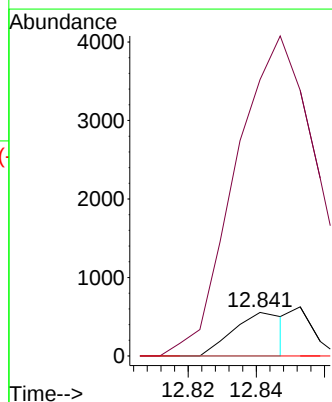
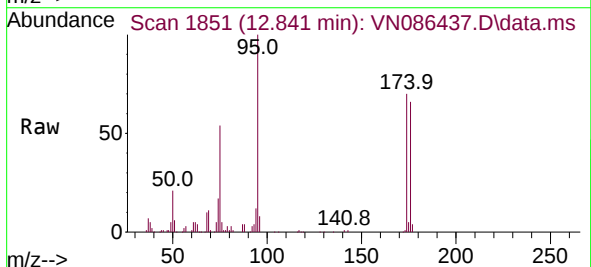
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#07

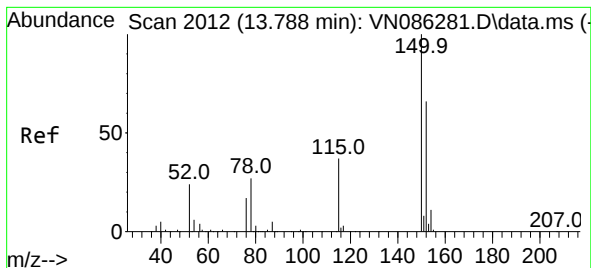
Tgt Ion:117 Resp: 271539
Ion Ratio Lower Upper
117 100
82 55.0 44.7 67.1
119 31.8 26.4 39.6



#71
Bromoform
Concen: 0.386 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN086437.D
Acq: 30 Apr 2025 15:27

Tgt Ion:173 Resp: 581
Ion Ratio Lower Upper
173 100
175 952.5 24.6 73.6#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN086437.D

Acq: 30 Apr 2025 15:27

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#07

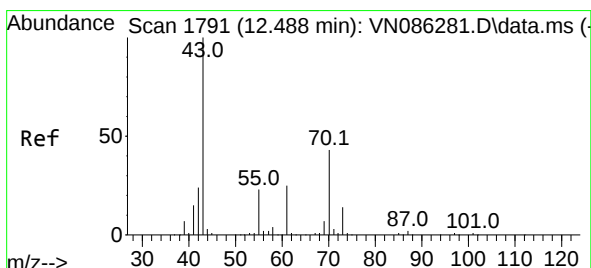
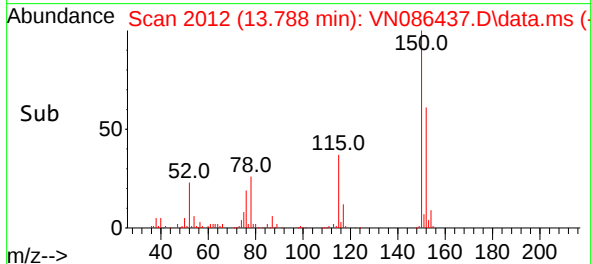
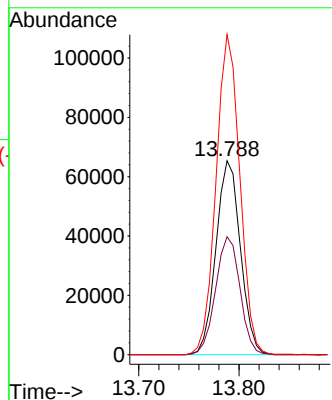
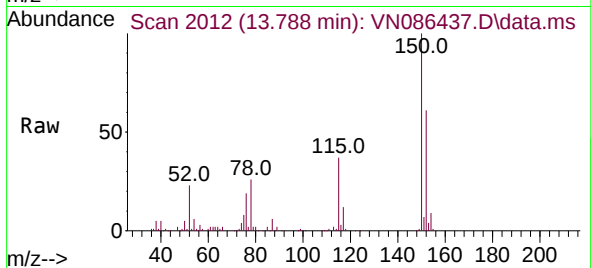
Tgt Ion:152 Resp: 110513

Ion Ratio Lower Upper

152 100

115 60.8 31.9 95.9

150 161.1 0.0 352.0



#74

N-ethyl acetate

Concen: 2.218 ug/l

RT: 12.453 min Scan# 1785

Delta R.T. -0.035 min

Lab File: VN086437.D

Acq: 30 Apr 2025 15:27

Tgt Ion: 43 Resp: 9980

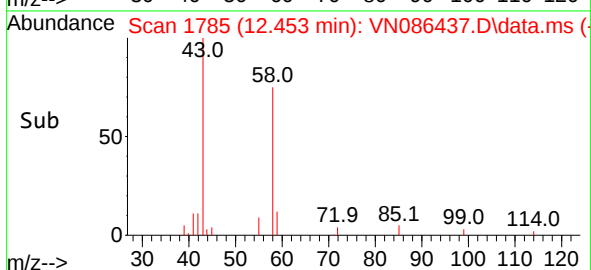
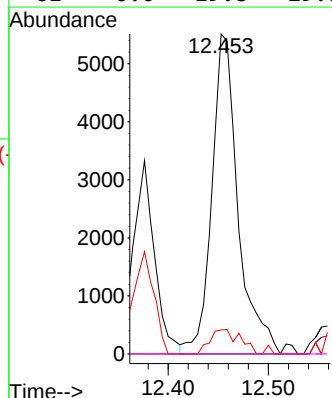
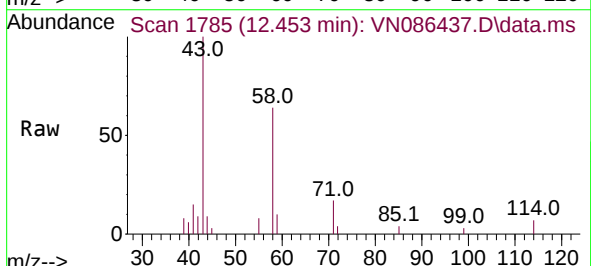
Ion Ratio Lower Upper

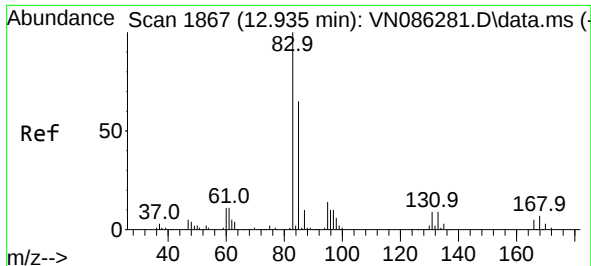
43 100

70 0.0 35.0 52.4#

55 8.9 19.0 28.4#

61 0.0 19.8 29.8#

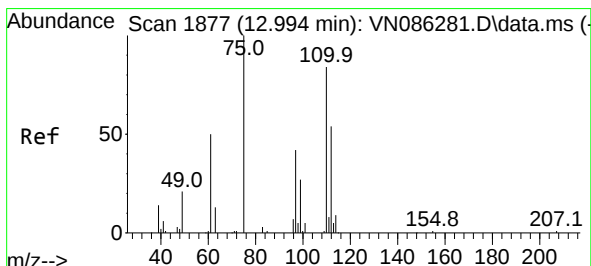
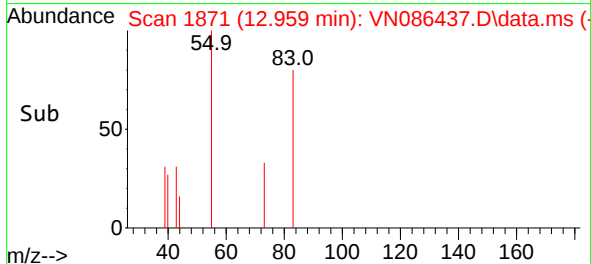
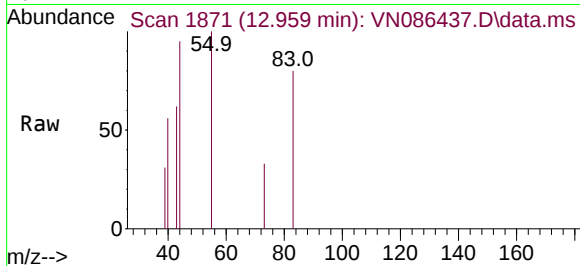




#75
1,1,2,2-Tetrachloroethane
Concen: 0.277 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. 0.024 min
Lab File: VN086437.D
Acq: 30 Apr 2025 15:27

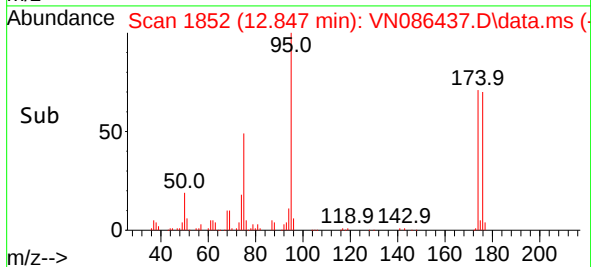
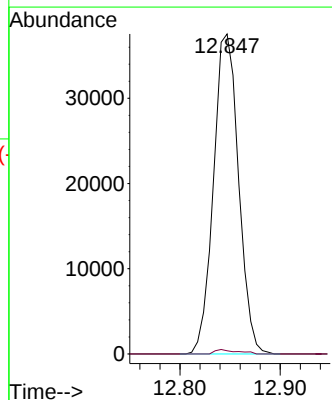
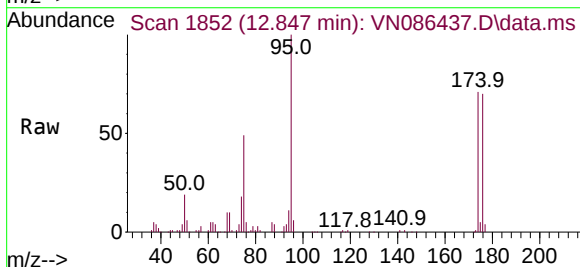
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#07

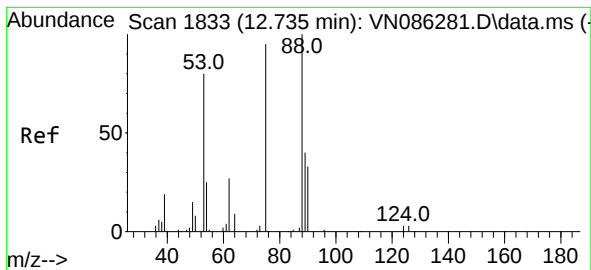
Tgt Ion: 83 Resp: 720
Ion Ratio Lower Upper
83 100
131 0.0 4.7 14.1#
85 0.0 32.7 98.1#



#76
1,2,3-Trichloropropane
Concen: 24.994 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086437.D
Acq: 30 Apr 2025 15:27

Tgt Ion: 75 Resp: 65182
Ion Ratio Lower Upper
75 100
77 1.2 98.8 296.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.025 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086437.D
 Acq: 30 Apr 2025 15:27

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#07

Tgt Ion: 75 Resp: 65182
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.0 35.7 53.5#

