

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042825\
 Data File : VN086408.D
 Acq On : 28 Apr 2025 13:57
 Operator : JC\MD
 Sample : PB167744ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167744ZHE#05

Quant Time: Apr 29 01:52:43 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)

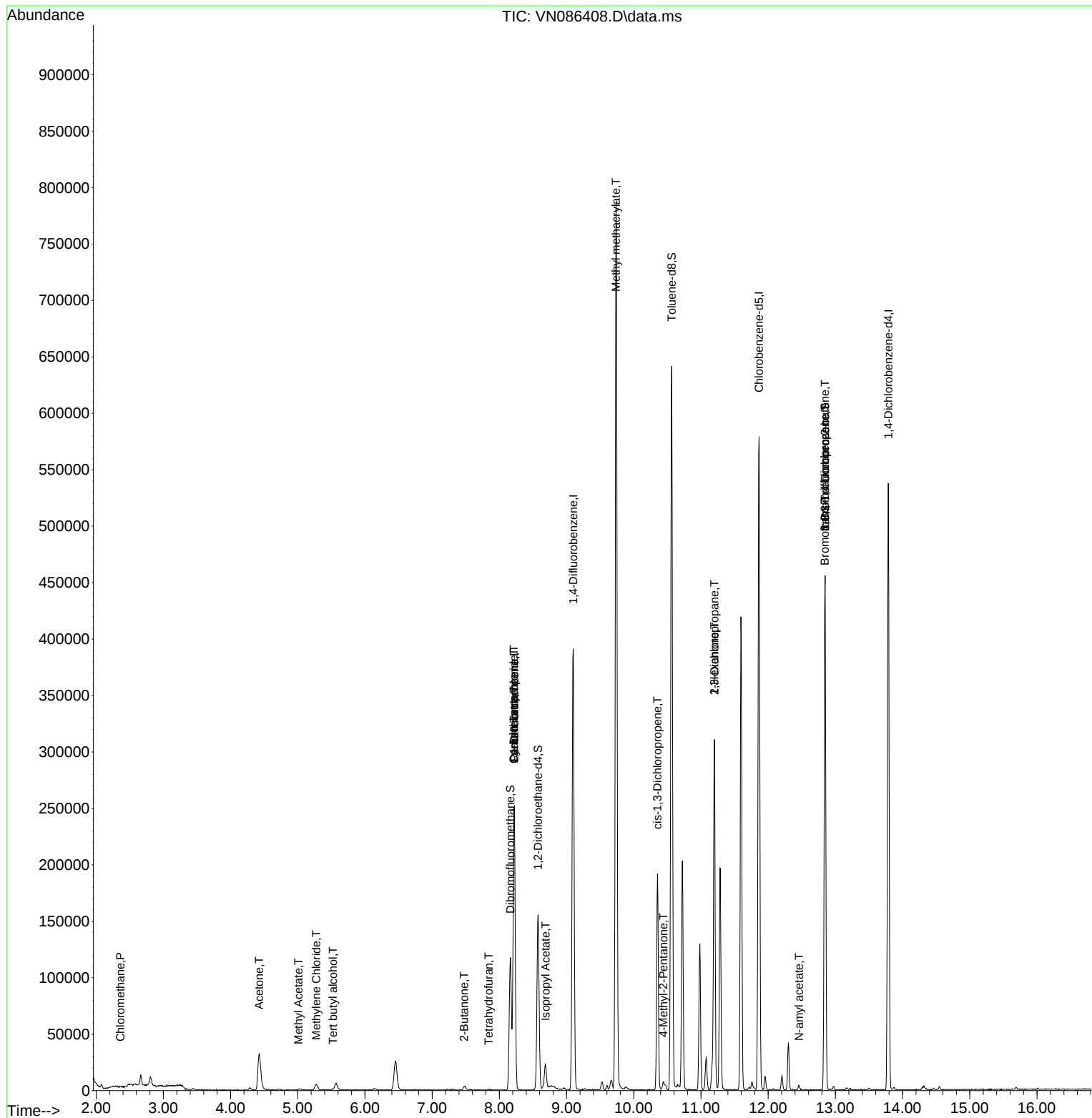
Internal Standards						
1) Pentafluorobenzene	8.224	168	187309	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	350450	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	336237	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	141438	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	128568	47.335	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 94.660%			
35) Dibromofluoromethane	8.165	113	86984	53.480	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.960%			
50) Toluene-d8	10.565	98	448259	51.567	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.140%			
62) 4-Bromofluorobenzene	12.847	95	161186	50.838	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.680%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	845	0.262	ug/l	93
11) Tert butyl alcohol	5.524	59	932	1.881	ug/l #	72
16) Acetone	4.424	43	66378	66.495	ug/l	99
18) Methyl Acetate	5.012	43	2794	0.857	ug/l #	56
20) Methylene Chloride	5.277	84	4072	1.622	ug/l #	91
25) 2-Butanone	7.477	43	6347	3.754	ug/l	97
29) Tetrahydrofuran	7.841	42	666	0.589	ug/l #	45
31) Cyclohexane	8.218	56	4090	0.929	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	15237	4.690	ug/l #	50
38) Carbon Tetrachloride	8.218	117	19145	6.188	ug/l #	15
43) Isopropyl Acetate	8.688	43	27710	2.702	ug/l #	87
48) Methyl methacrylate	9.735	41	70334	23.418	ug/l #	43
51) 4-Methyl-2-Pentanone	10.441	43	4743	1.354	ug/l	100
54) cis-1,3-Dichloropropene	10.353	75	35709	8.307	ug/l #	59
57) 1,3-Dichloropropane	11.200	76	3222	0.777	ug/l #	43
59) 2-Hexanone	11.200	43	61061	23.505	ug/l #	42
71) Bromoform	12.841	173	820	0.440	ug/l #	1
74) N-amyl acetate	12.459	43	3364	0.584	ug/l #	44
76) 1,2,3-Trichloropropane	12.847	75	84022	25.173	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	84022	60.457	ug/l #	10

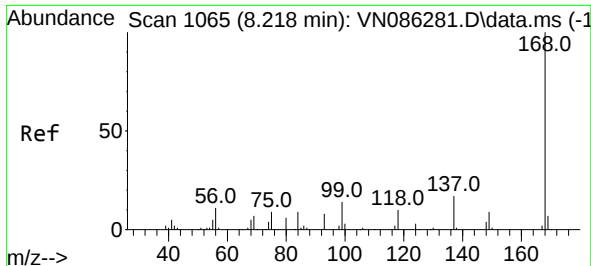
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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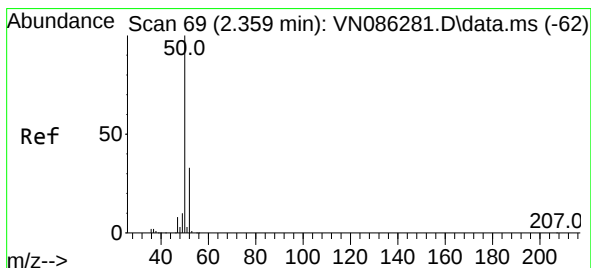
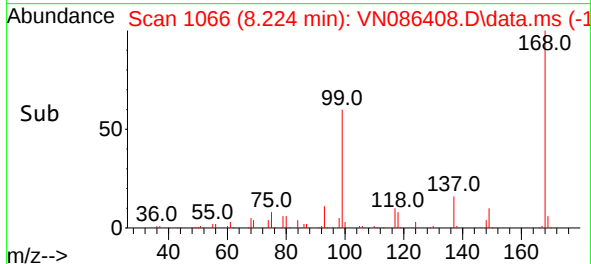
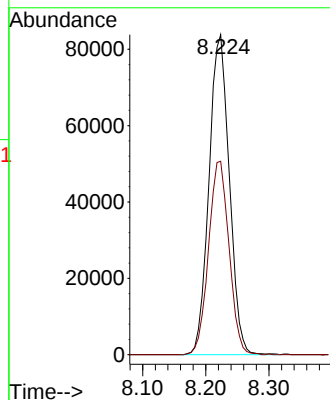
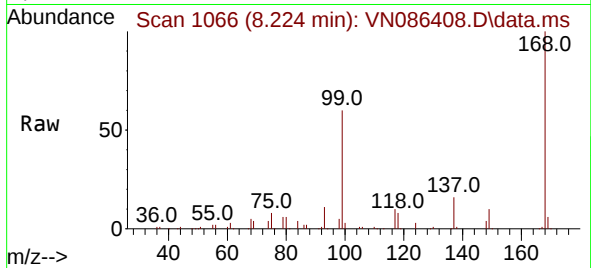




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

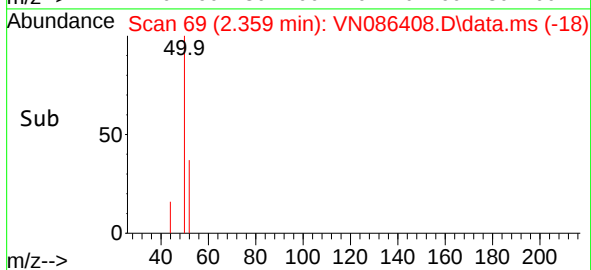
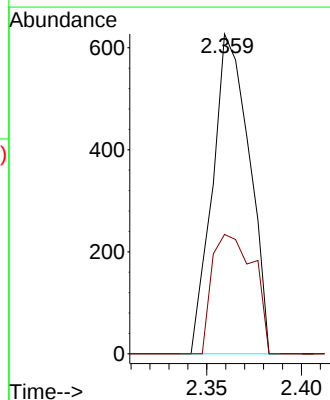
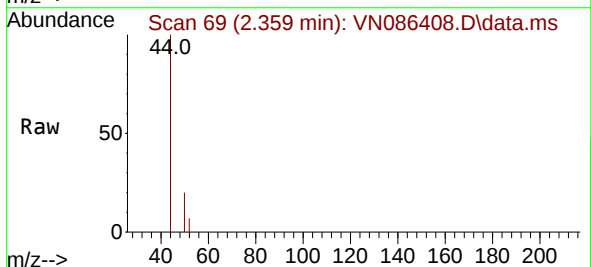
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#05

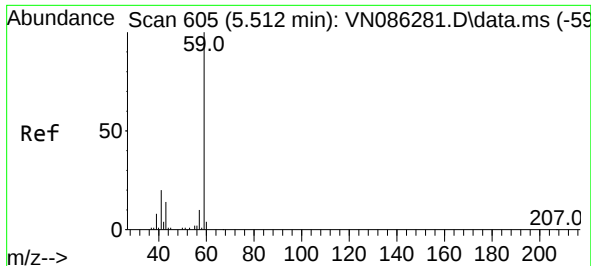
Tgt Ion:168 Resp: 187309
Ion Ratio Lower Upper
168 100
99 60.4 52.5 78.7



#3
Chloromethane
Concen: 0.262 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

Tgt Ion: 50 Resp: 845
Ion Ratio Lower Upper
50 100
52 37.3 26.5 39.7

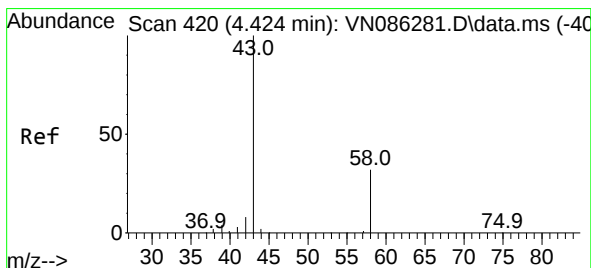
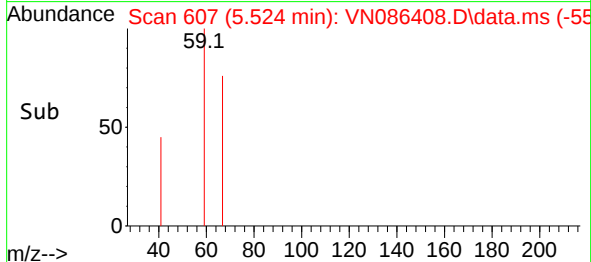
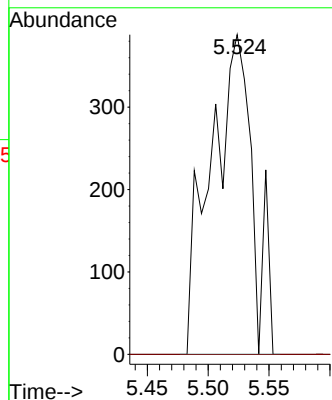
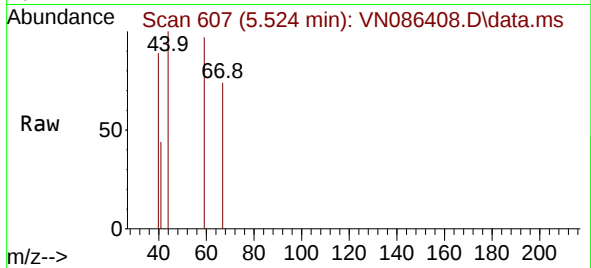




#11
Tert butyl alcohol
Concen: 1.881 ug/l
RT: 5.524 min Scan# 605
Delta R.T. 0.012 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

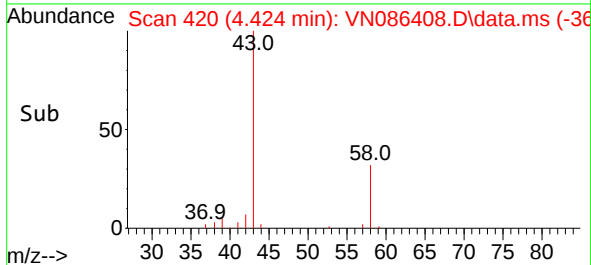
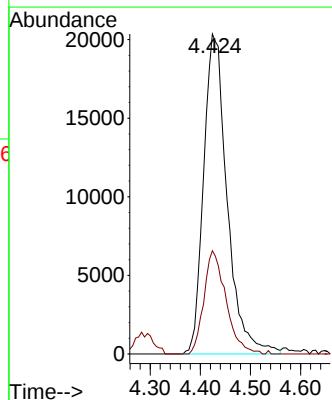
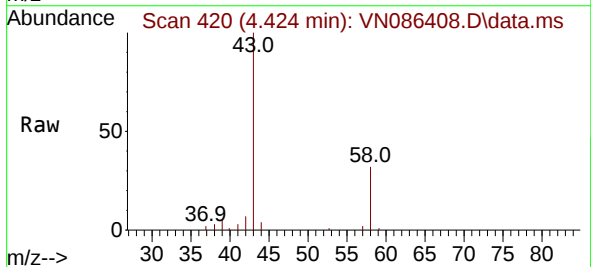
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#05

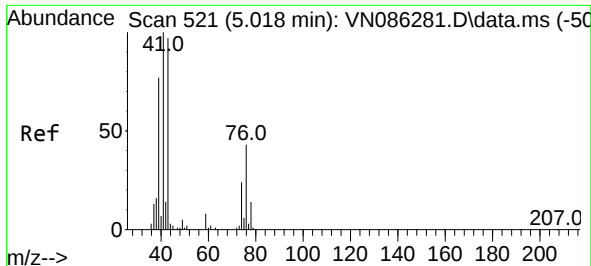
Tgt Ion: 59 Resp: 932
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 66.495 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

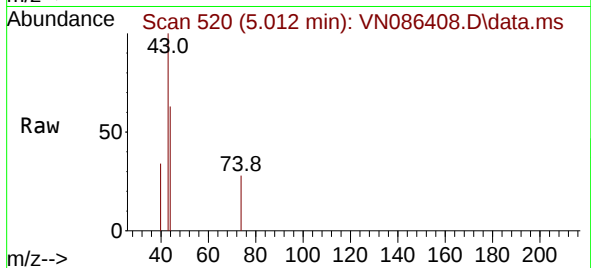
Tgt Ion: 43 Resp: 66378
Ion Ratio Lower Upper
43 100
58 32.2 25.3 37.9



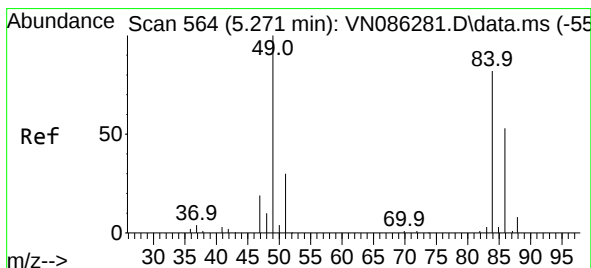
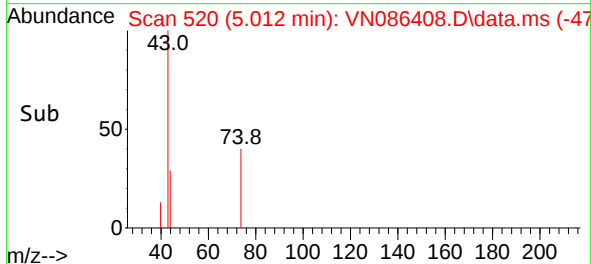
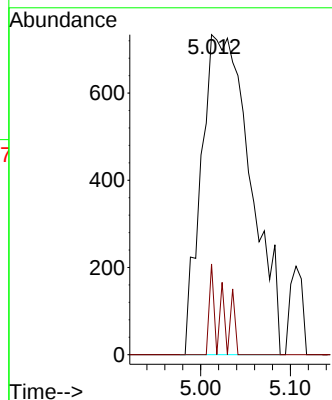


#18
Methyl Acetate
Concen: 0.857 ug/l
RT: 5.012 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#05

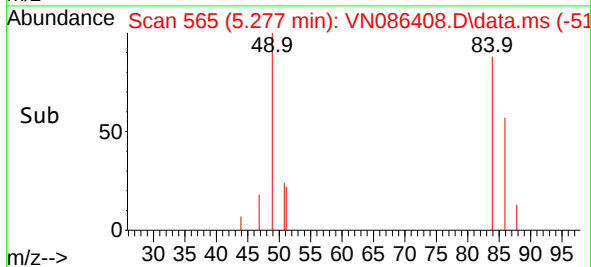
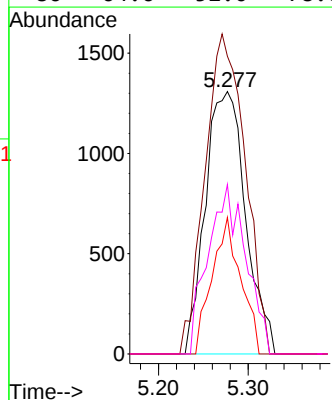
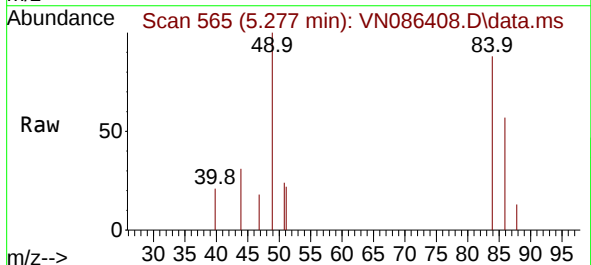


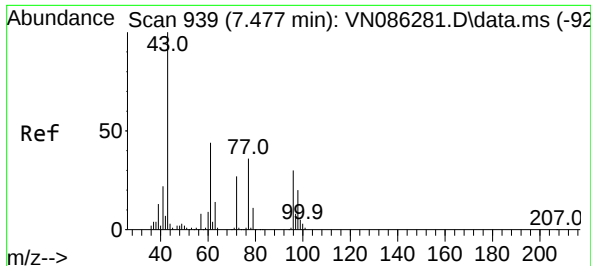
Tgt Ion: 43 Resp: 2794
Ion Ratio Lower Upper
43 100
74 2.6 19.8 29.6#



#20
Methylene Chloride
Concen: 1.622 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

Tgt Ion: 84 Resp: 4072
Ion Ratio Lower Upper
84 100
49 113.4 98.2 147.2
51 52.0 29.8 44.6#
86 64.6 52.0 78.0

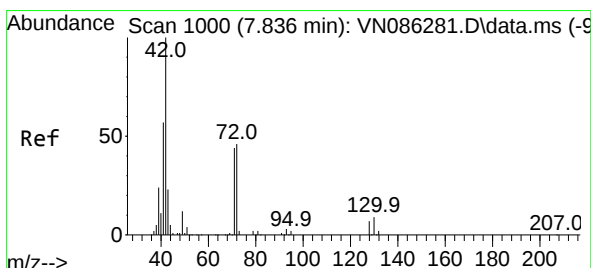
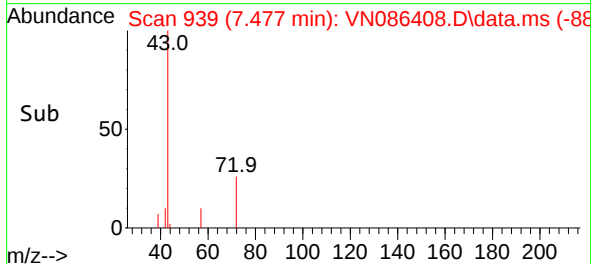
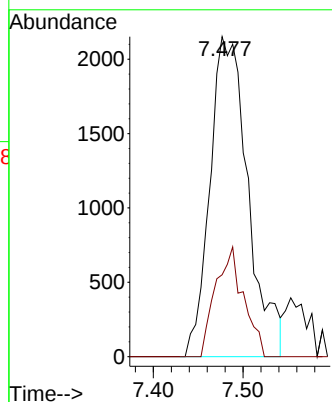
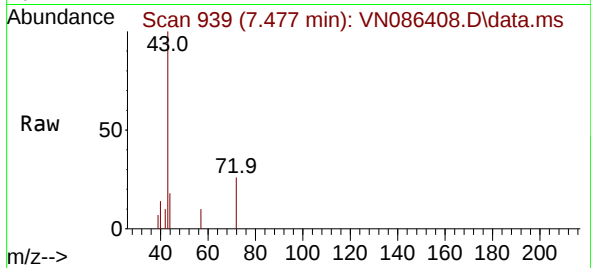




#25
2-Butanone
Concen: 3.754 ug/l
RT: 7.477 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

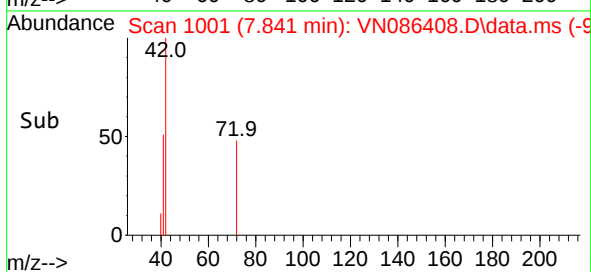
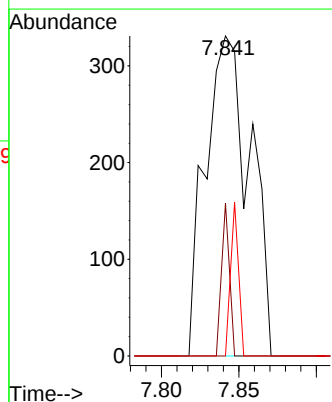
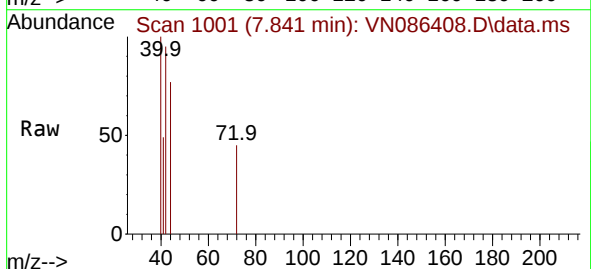
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#05

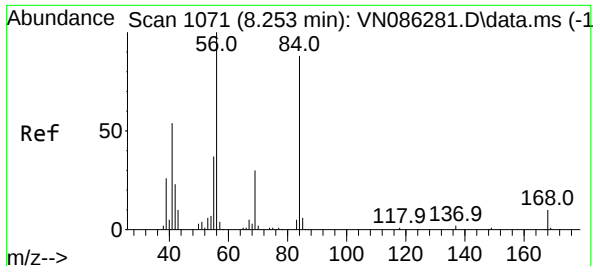
Tgt Ion: 43 Resp: 6347
Ion Ratio Lower Upper
43 100
72 25.6 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.589 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

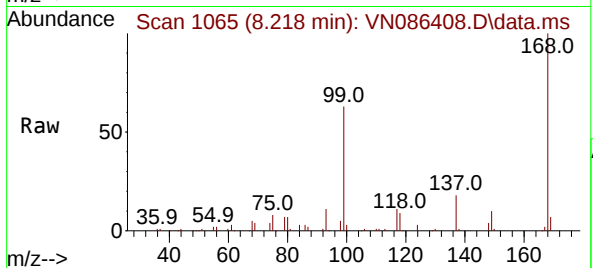
Tgt Ion: 42 Resp: 666
Ion Ratio Lower Upper
42 100
72 8.4 36.2 54.4#
71 8.4 34.0 51.0#



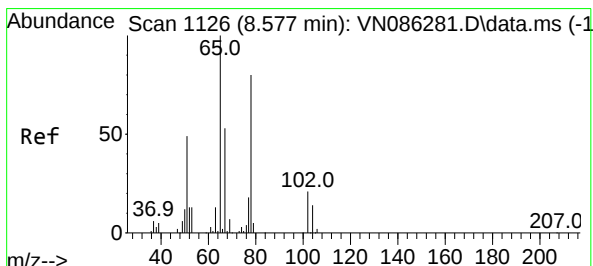
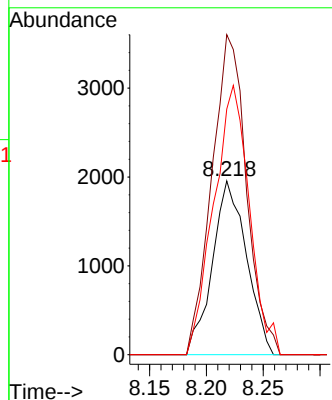
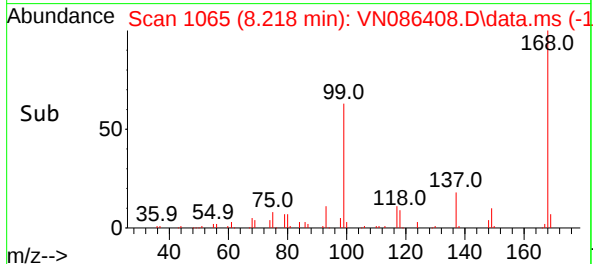


#31
Cyclohexane
Concen: 0.929 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#05

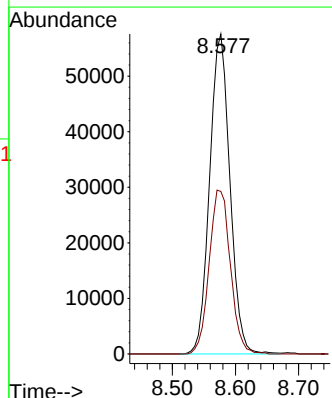
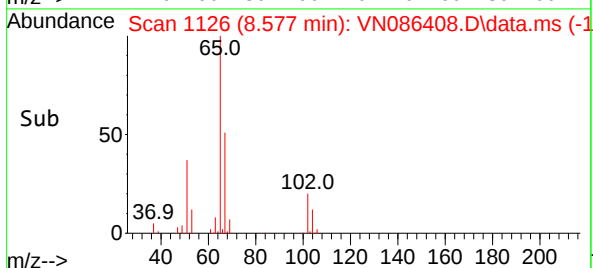
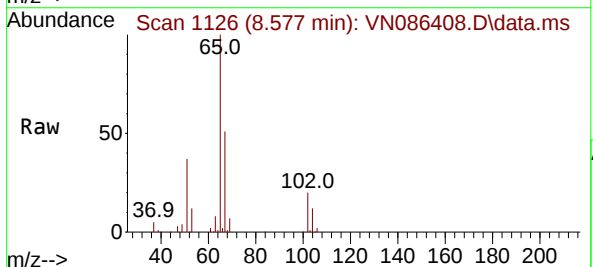


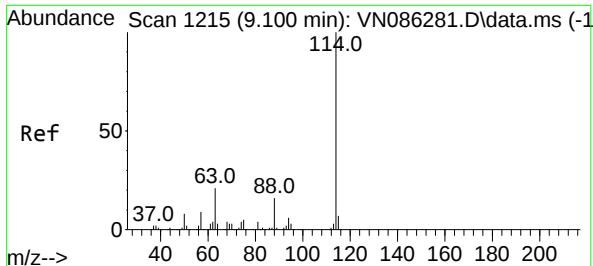
Tgt Ion: 56 Resp: 4090
Ion Ratio Lower Upper
56 100
69 184.2 24.2 36.2#
84 141.4 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 47.335 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

Tgt Ion: 65 Resp: 128568
Ion Ratio Lower Upper
65 100
67 53.6 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086408.D

Acq: 28 Apr 2025 13:57

Instrument :

MSVOA_N

ClientSampleId :

PB167744ZHE#05

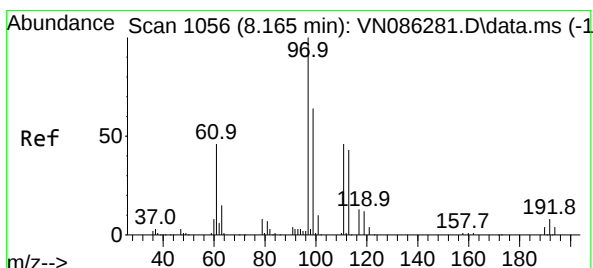
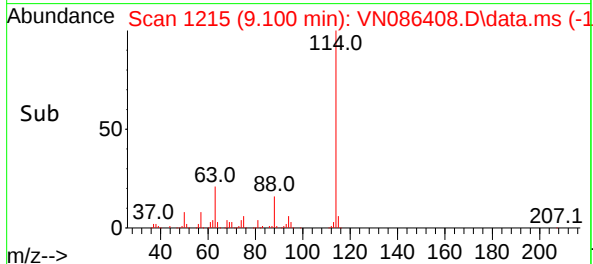
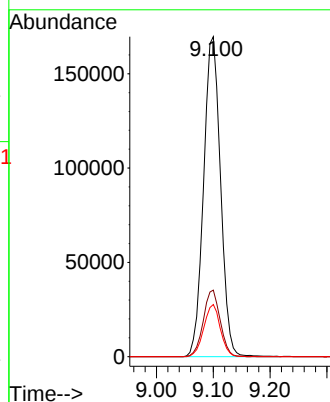
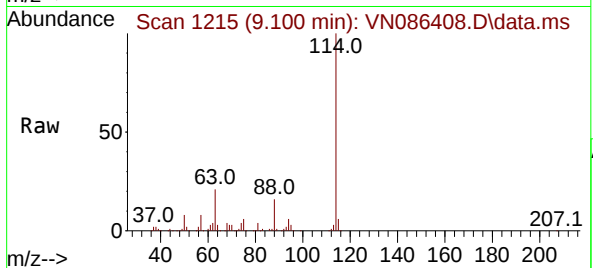
Tgt Ion:114 Resp: 350450

Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.6

88 16.3 0.0 31.8



#35

Dibromofluoromethane

Concen: 53.480 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086408.D

Acq: 28 Apr 2025 13:57

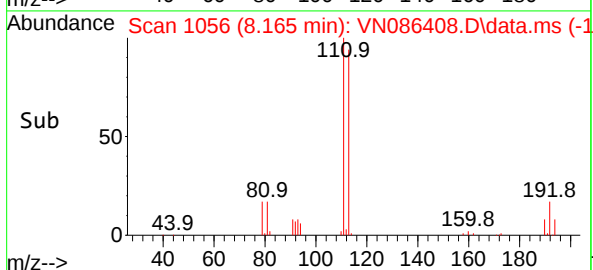
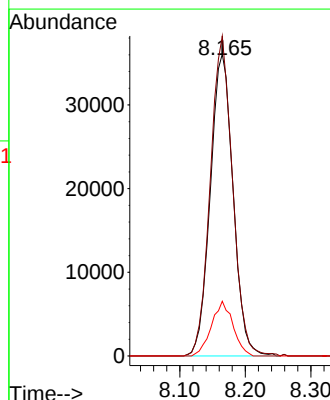
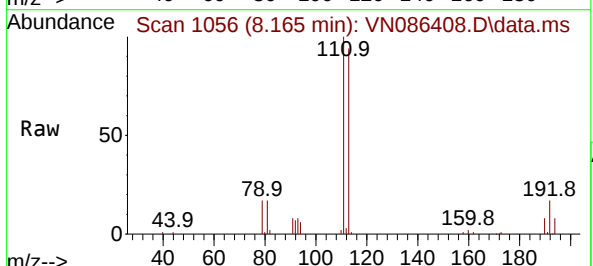
Tgt Ion:113 Resp: 86984

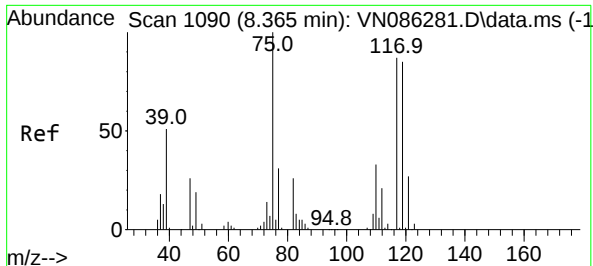
Ion Ratio Lower Upper

113 100

111 103.7 83.4 125.0

192 17.2 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.690 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086408.D

Acq: 28 Apr 2025 13:57

Instrument :

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ClientSampleId :

PB167744ZHE#05

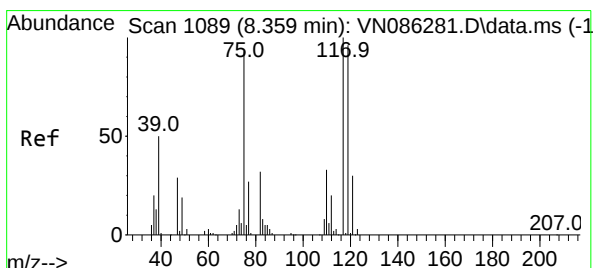
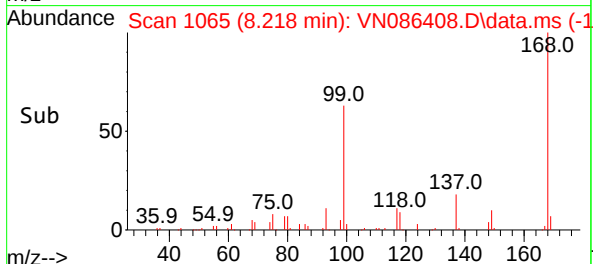
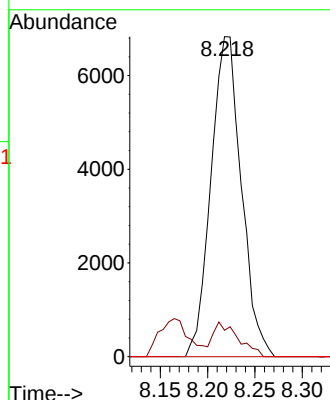
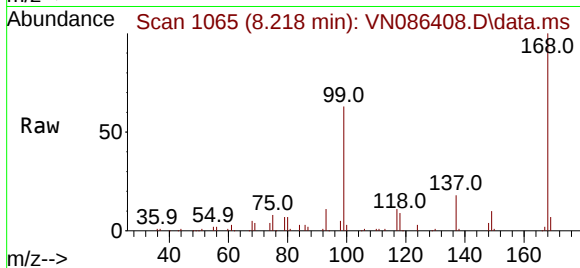
Tgt Ion: 75 Resp: 15237

Ion Ratio Lower Upper

75 100

110 8.8 16.8 50.4#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 6.188 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN086408.D

Acq: 28 Apr 2025 13:57

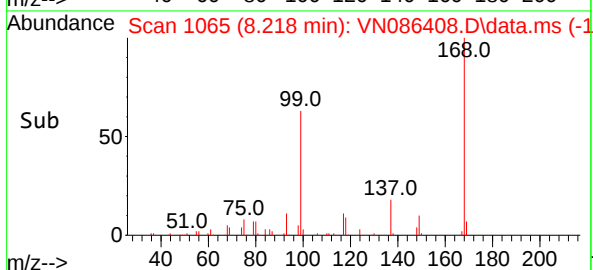
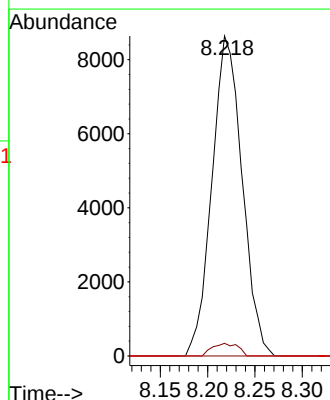
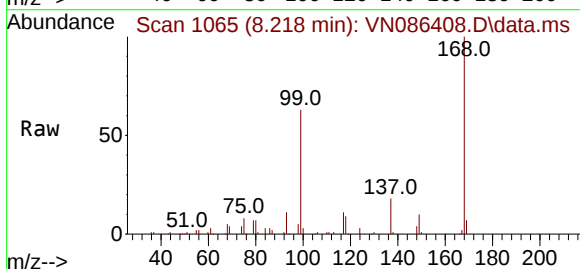
Tgt Ion: 117 Resp: 19145

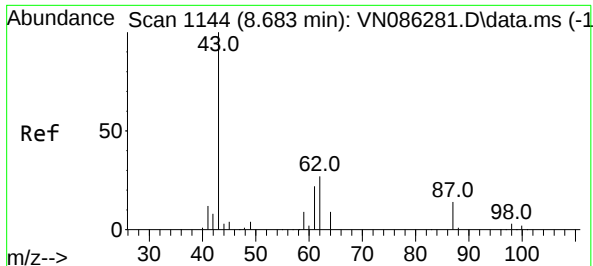
Ion Ratio Lower Upper

117 100

119 4.0 76.8 115.2#

121 0.0 23.8 35.8#

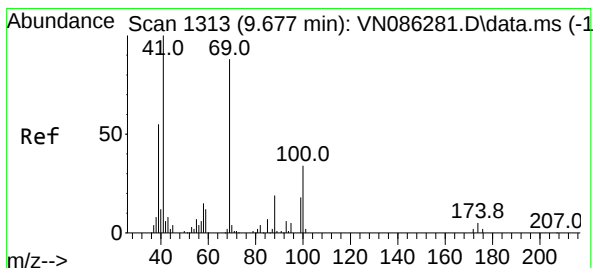
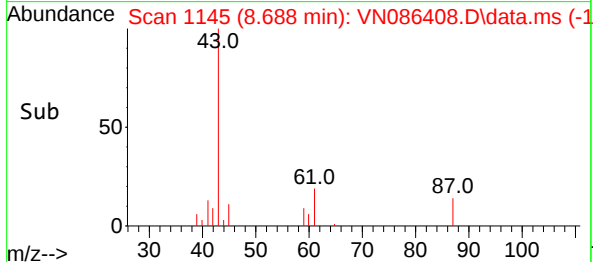
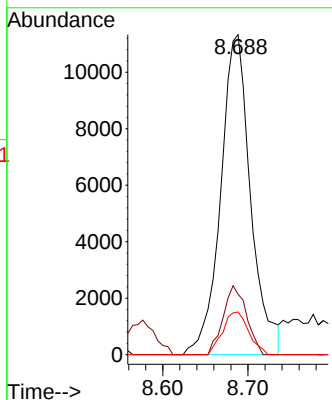
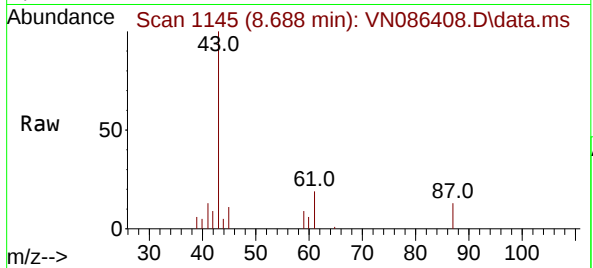




#43
Isopropyl Acetate
Concen: 2.702 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

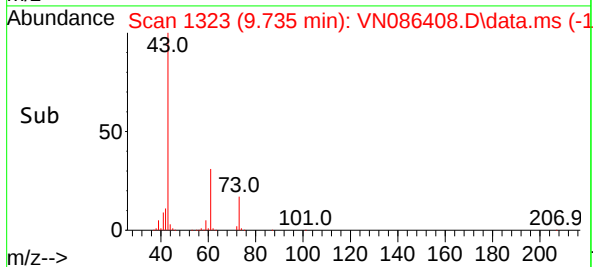
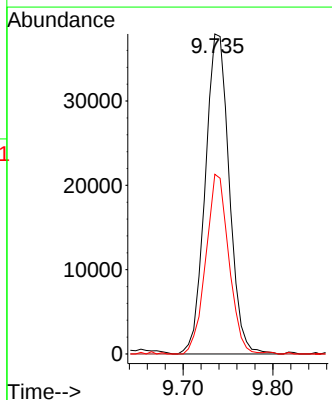
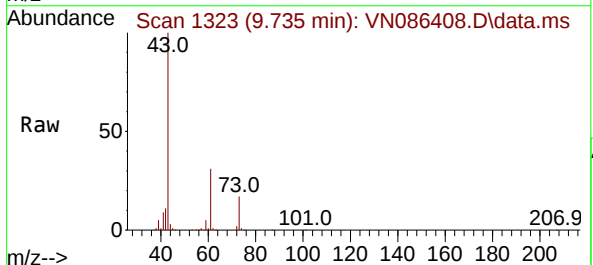
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#05

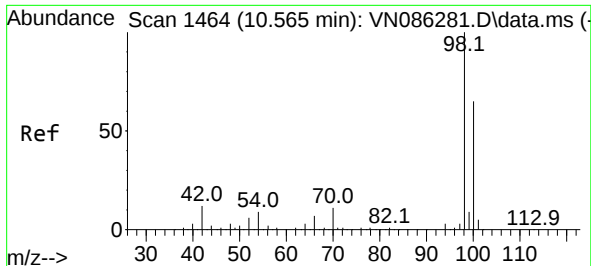
Tgt Ion: 43 Resp: 27710
Ion Ratio Lower Upper
43 100
61 16.8 20.5 30.7#
87 11.6 10.5 15.7



#48
Methyl methacrylate
Concen: 23.418 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.059 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

Tgt Ion: 41 Resp: 70334
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 54.2 45.2 67.8

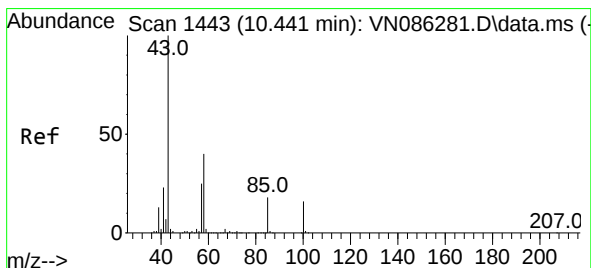
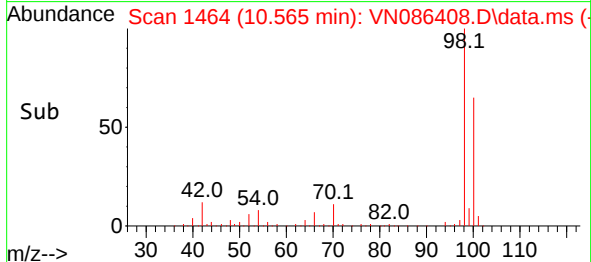
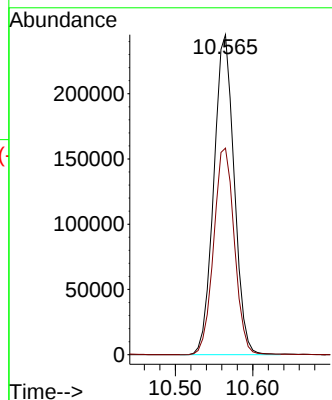
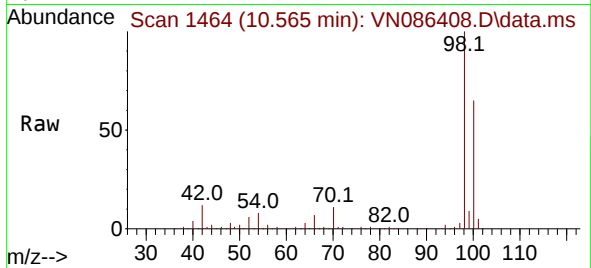




#50
Toluene-d8
Concen: 51.567 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

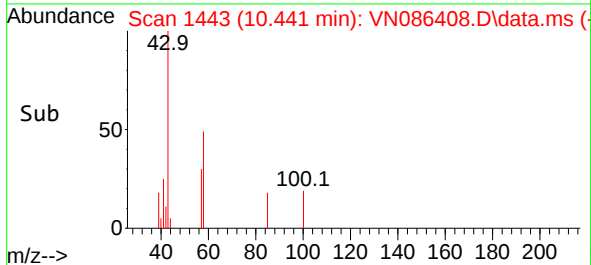
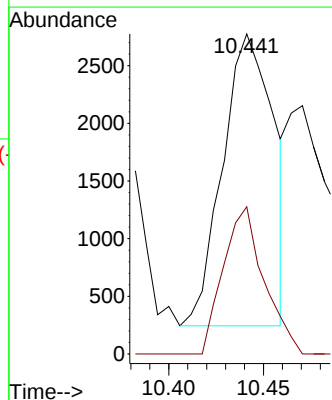
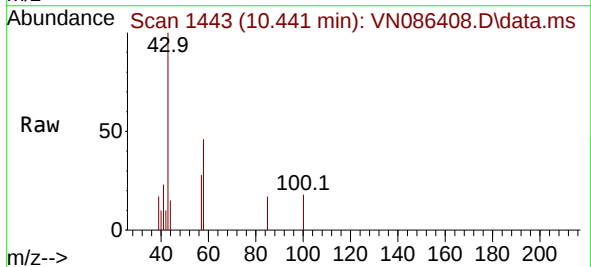
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#05

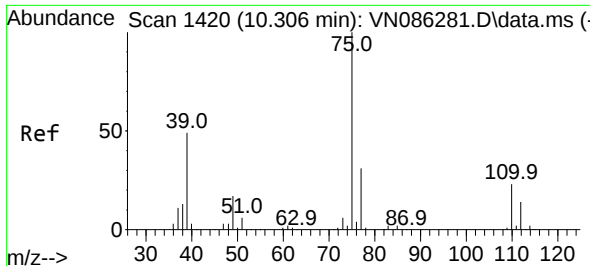
Tgt Ion: 98 Resp: 448259
Ion Ratio Lower Upper
98 100
100 65.7 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.354 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

Tgt Ion: 43 Resp: 4743
Ion Ratio Lower Upper
43 100
58 40.2 32.2 48.4

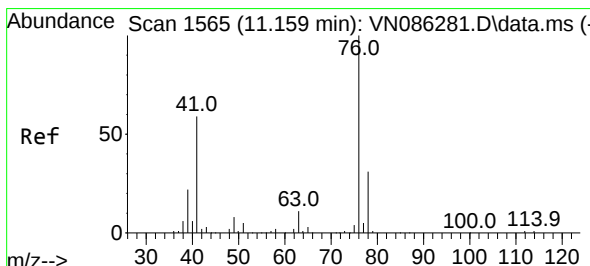
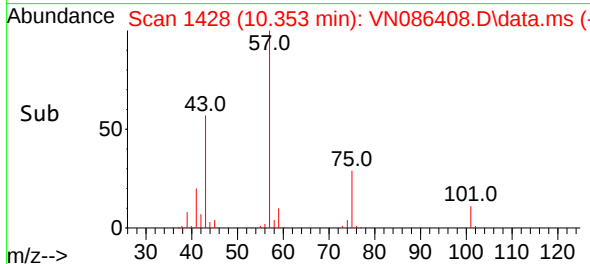
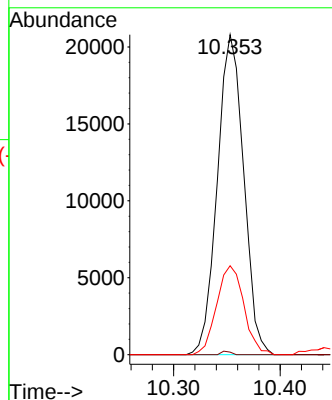
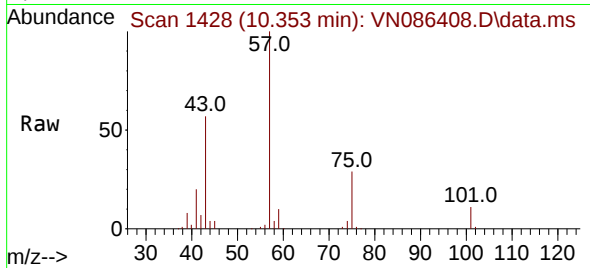




#54
 cis-1,3-Dichloropropene
 Concen: 8.307 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086408.D
 Acq: 28 Apr 2025 13:57

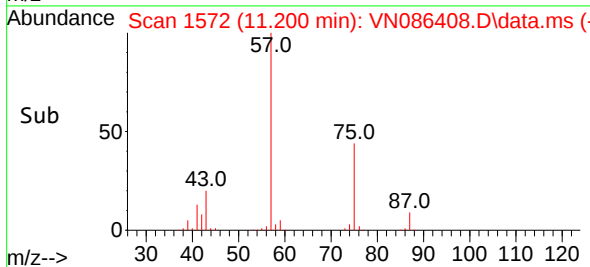
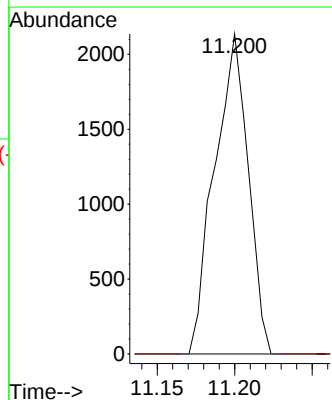
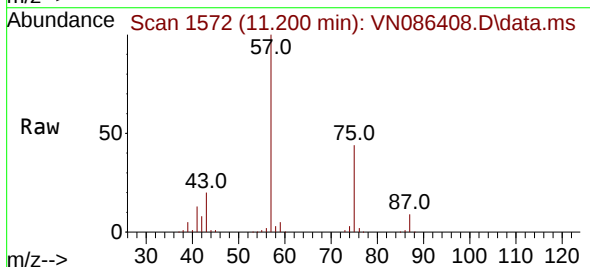
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167744ZHE#05

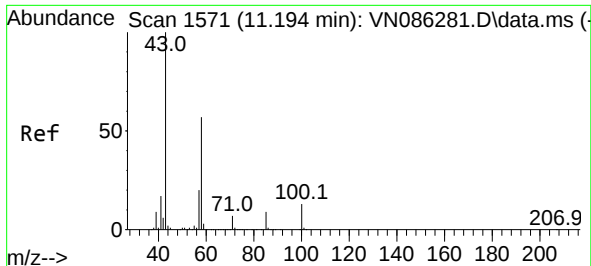
Tgt Ion: 75 Resp: 35709
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.2 37.8#
 39 27.8 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.777 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086408.D
 Acq: 28 Apr 2025 13:57

Tgt Ion: 76 Resp: 3222
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

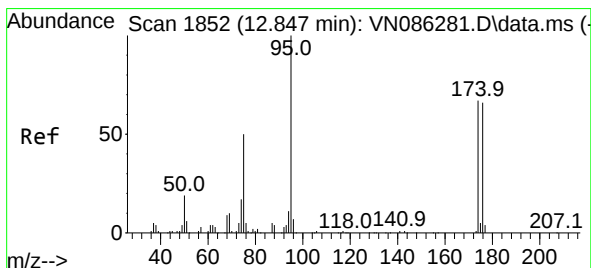
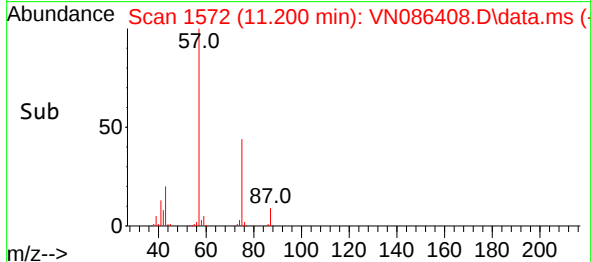
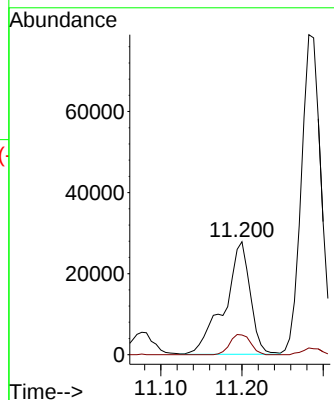
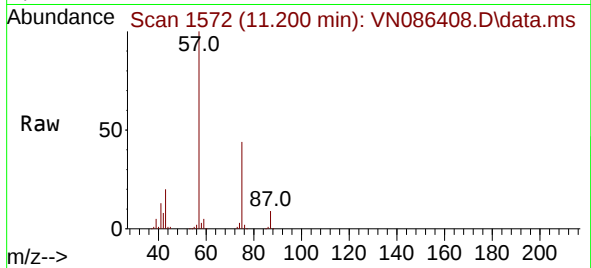




#59
2-Hexanone
Concen: 23.505 ug/l
RT: 11.200 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

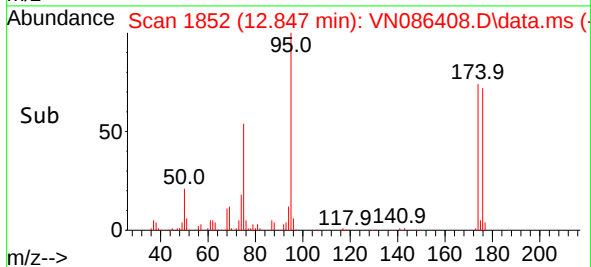
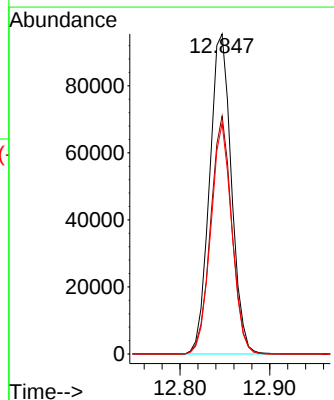
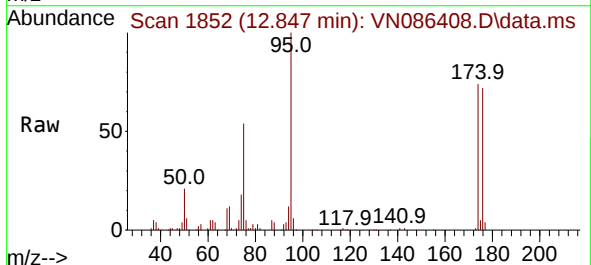
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#05

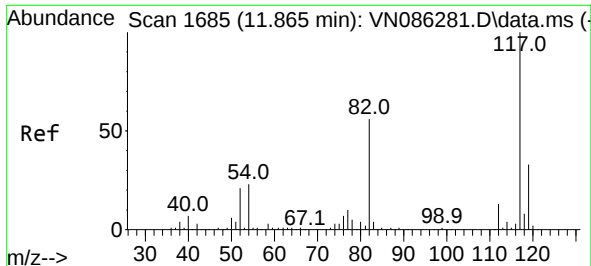
Tgt Ion: 43 Resp: 61061
Ion Ratio Lower Upper
43 100
58 14.5 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 50.838 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

Tgt Ion: 95 Resp: 161186
Ion Ratio Lower Upper
95 100
174 72.1 0.0 133.4
176 69.1 0.0 129.2

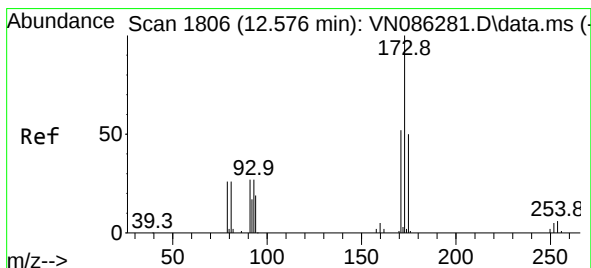
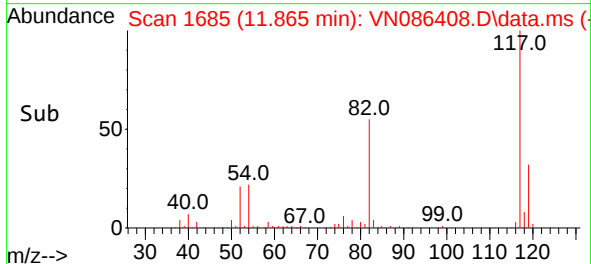
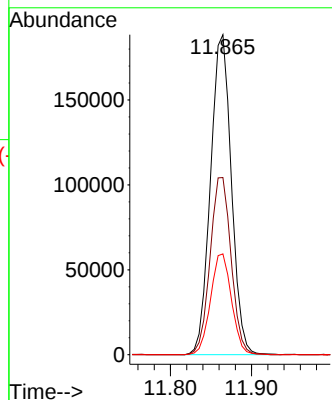
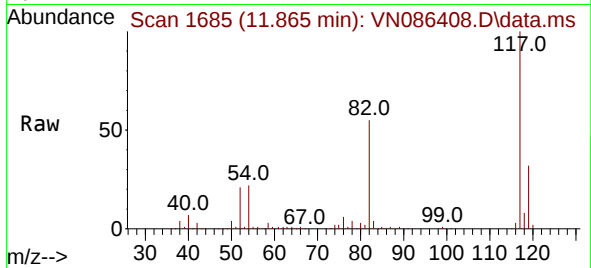




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

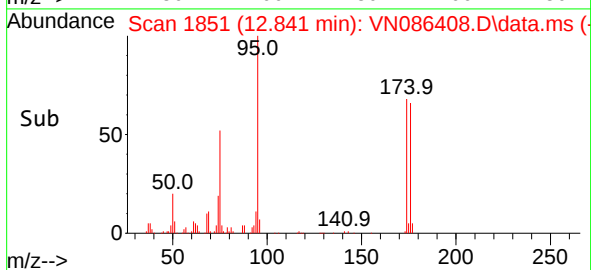
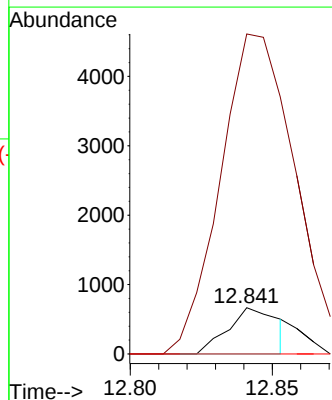
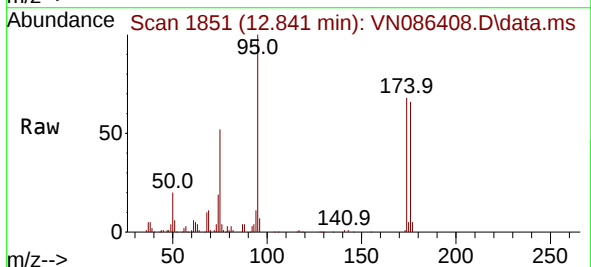
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#05

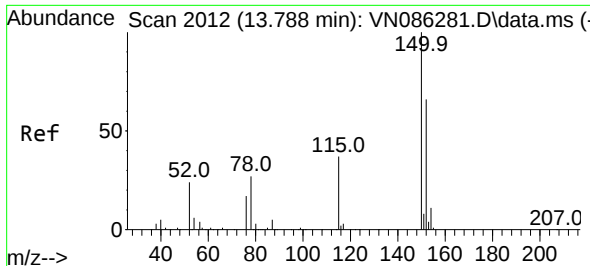
Tgt Ion:117 Resp: 336237
Ion Ratio Lower Upper
117 100
82 55.4 44.7 67.1
119 31.5 26.4 39.6



#71
Bromoform
Concen: 0.440 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

Tgt Ion:173 Resp: 820
Ion Ratio Lower Upper
173 100
175 831.3 24.6 73.6#
254 0.0 0.0 0.0

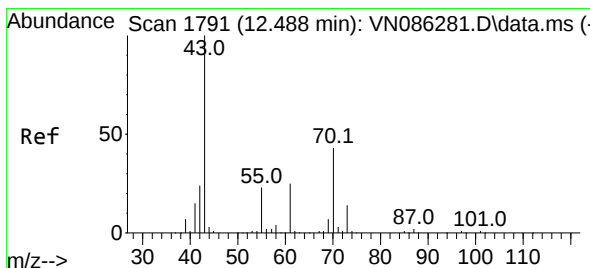
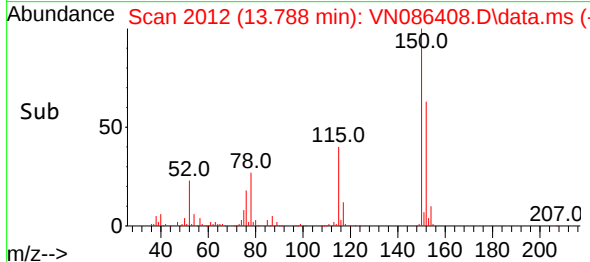
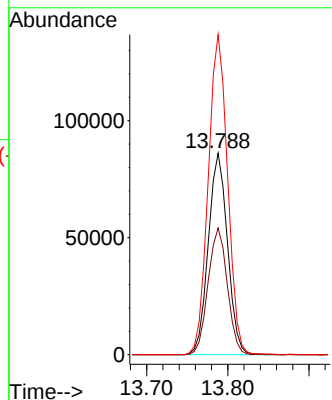
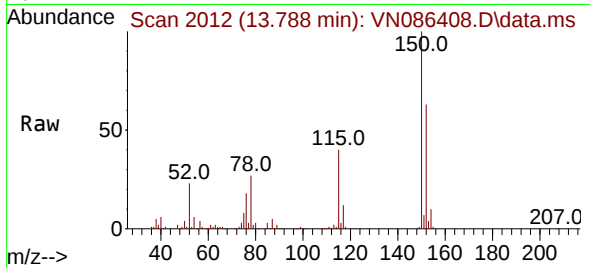




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

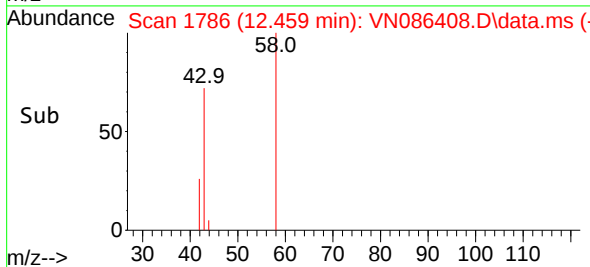
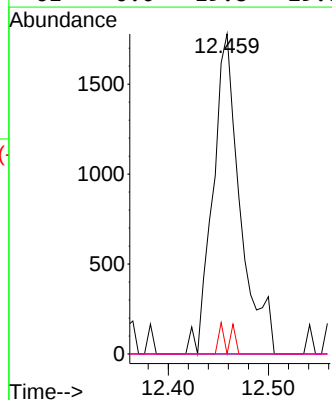
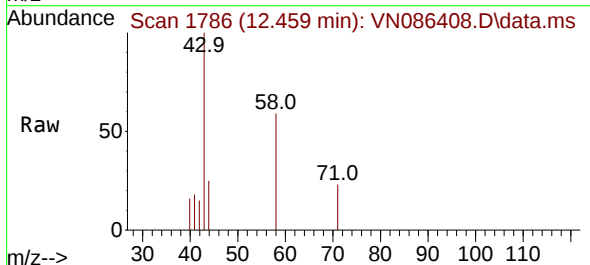
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#05

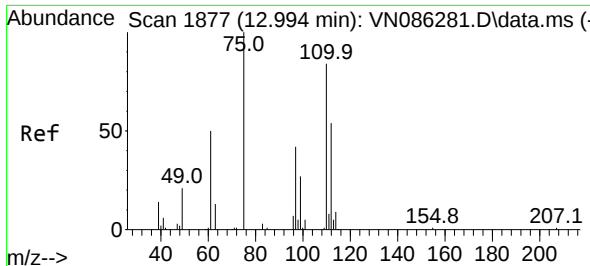
Tgt Ion:152 Resp: 141438
Ion Ratio Lower Upper
152 100
115 62.8 31.9 95.9
150 160.2 0.0 352.0



#74
N-ethyl acetate
Concen: 0.584 ug/l
RT: 12.459 min Scan# 1786
Delta R.T. -0.030 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

Tgt Ion: 43 Resp: 3364
Ion Ratio Lower Upper
43 100
70 0.0 35.0 52.4#
55 3.6 19.0 28.4#
61 0.0 19.8 29.8#

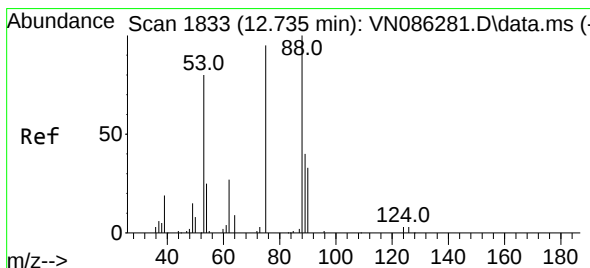
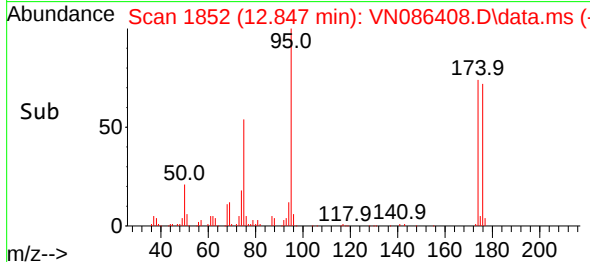
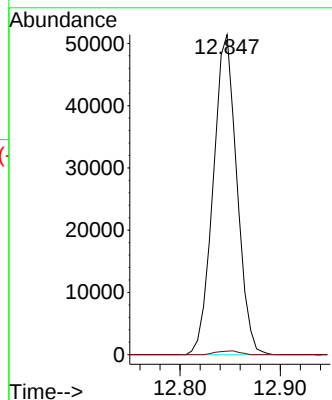
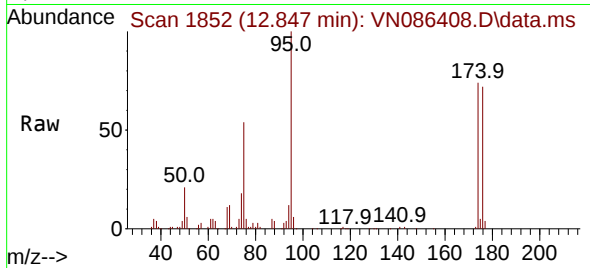




#76
1,2,3-Trichloropropane
Concen: 25.173 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#05

Tgt Ion: 75 Resp: 84022
Ion Ratio Lower Upper
75 100
77 1.2 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 60.457 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086408.D
Acq: 28 Apr 2025 13:57

Tgt Ion: 75 Resp: 84022
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

