

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042825\
 Data File : VN086406.D
 Acq On : 28 Apr 2025 13:08
 Operator : JC\MD
 Sample : PB167744ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167744ZHE#03

Quant Time: Apr 29 01:51:44 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

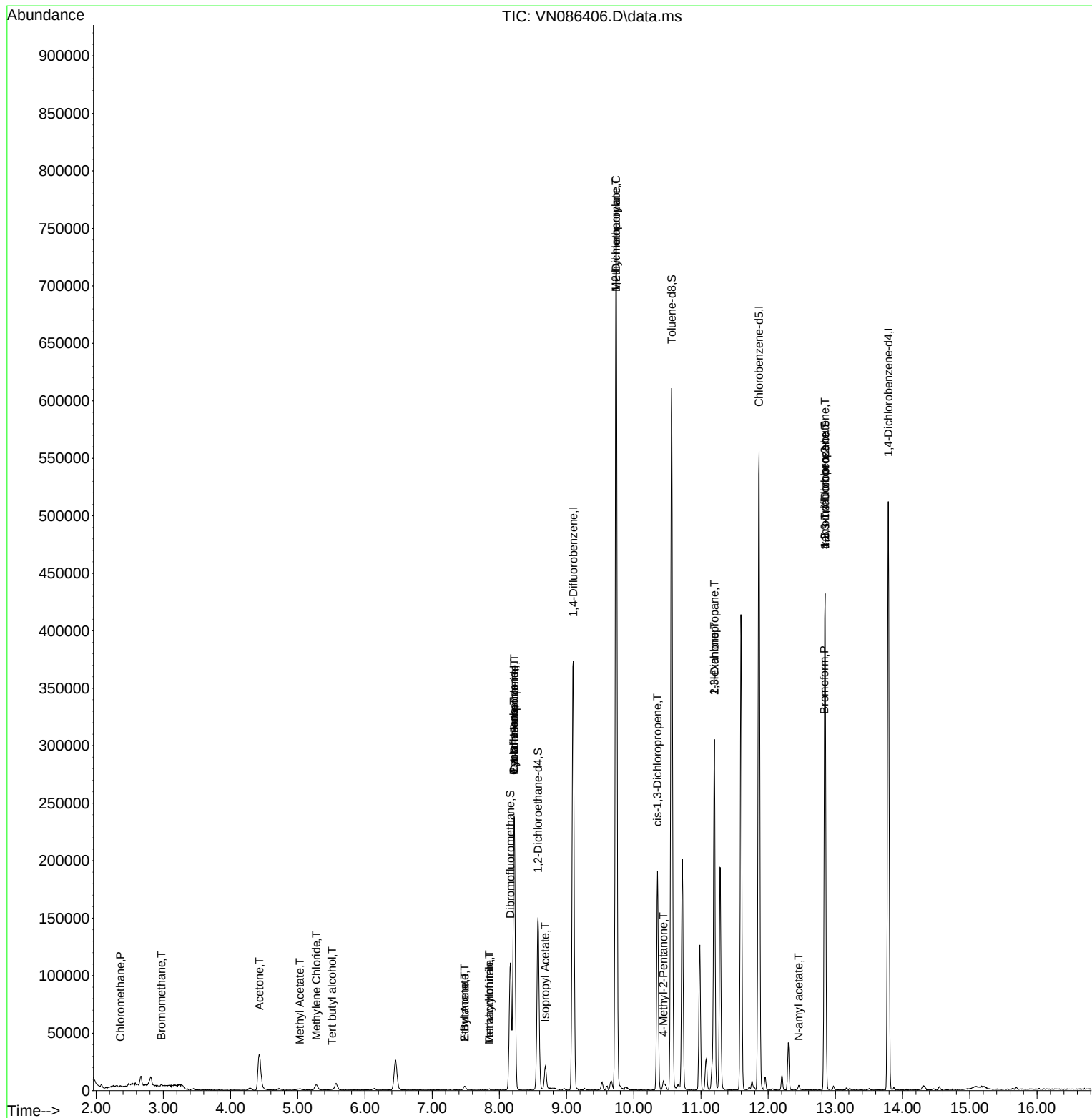
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	176885	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	336926	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	322671	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	138646	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	125145	48.790	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.580%
35) Dibromofluoromethane	8.165	113	82593	52.818	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	105.640%
50) Toluene-d8	10.565	98	431004	51.572	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.140%
62) 4-Bromofluorobenzene	12.847	95	153846	50.470	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	100.940%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	909	0.298	ug/l #	88
5) Bromomethane	2.971	94	299	0.229	ug/l	91
11) Tert butyl alcohol	5.512	59	842	1.799	ug/l #	72
16) Acetone	4.430	43	65058	69.234	ug/l	96
18) Methyl Acetate	5.030	43	2717	0.882	ug/l #	64
20) Methylene Chloride	5.277	84	4117	1.736	ug/l #	81
25) 2-Butanone	7.482	43	6251	3.915	ug/l #	83
29) Tetrahydrofuran	7.853	42	664	0.622	ug/l #	52
31) Cyclohexane	8.218	56	4043	0.973	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	15161	4.854	ug/l #	50
37) Ethyl Acetate	7.482	43	6251	1.901	ug/l #	68
38) Carbon Tetrachloride	8.224	117	18425	6.195	ug/l #	16
41) Methacrylonitrile	7.853	41	395	0.207	ug/l #	23
43) Isopropyl Acetate	8.682	43	25367	2.483	ug/l #	88
45) 1,2-Dichloropropane	9.735	63	1051	0.429	ug/l #	43
48) Methyl methacrylate	9.735	41	69923	24.215	ug/l #	43
51) 4-Methyl-2-Pentanone	10.441	43	4908	1.458	ug/l	97
54) cis-1,3-Dichloropropene	10.353	75	35727	8.645	ug/l #	58
57) 1,3-Dichloropropane	11.200	76	3341	0.838	ug/l #	43
59) 2-Hexanone	11.200	43	61245	24.523	ug/l #	41
71) Bromoform	12.835	173	982	0.549	ug/l #	1
74) N-amyl acetate	12.453	43	3041	0.539	ug/l #	43
76) 1,2,3-Trichloropropane	12.847	75	80107	24.484	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	80107	58.801	ug/l #	10

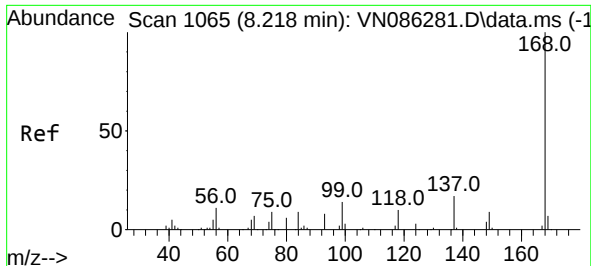
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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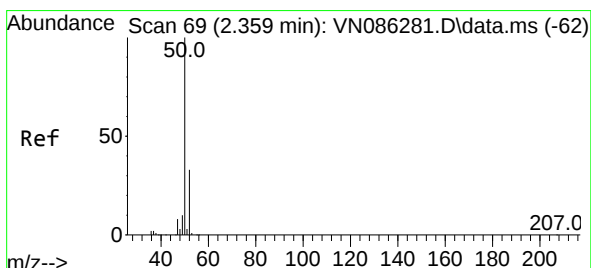
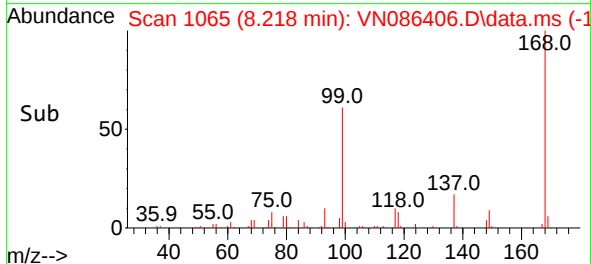
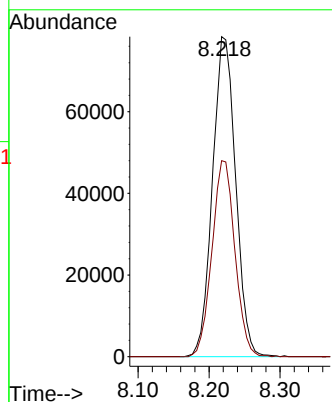
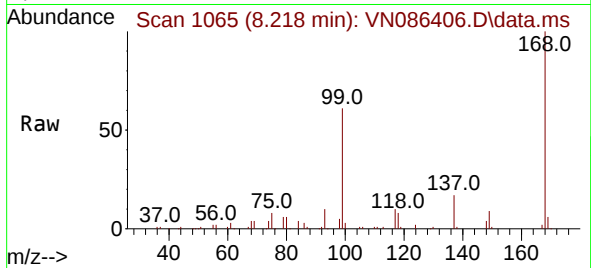




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN086406.D
Acq: 28 Apr 2025 13:08

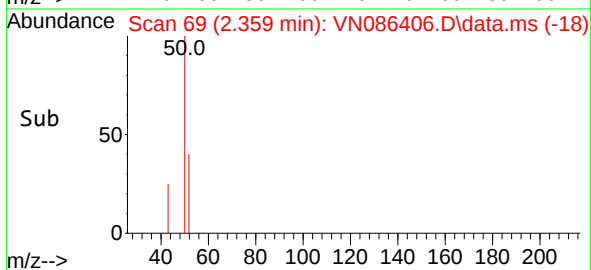
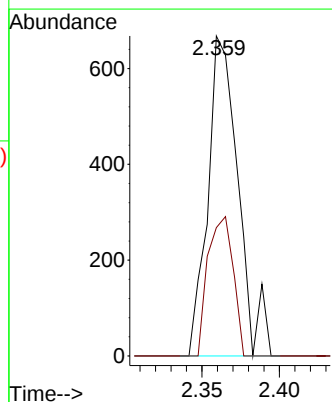
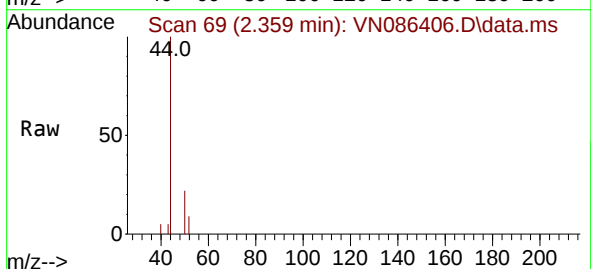
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#03

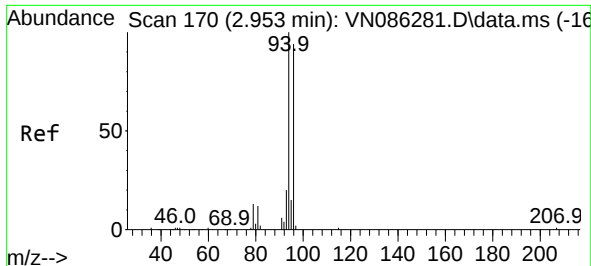
Tgt Ion:168 Resp: 176885
Ion Ratio Lower Upper
168 100
99 61.2 52.5 78.7



#3
Chloromethane
Concen: 0.298 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086406.D
Acq: 28 Apr 2025 13:08

Tgt Ion: 50 Resp: 909
Ion Ratio Lower Upper
50 100
52 40.1 26.5 39.7#

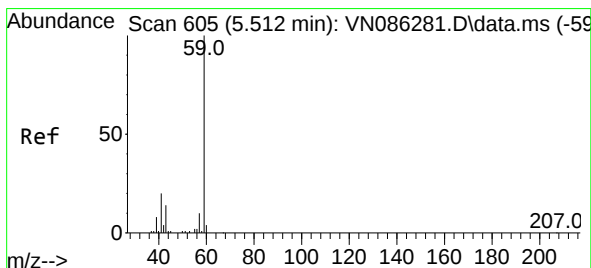
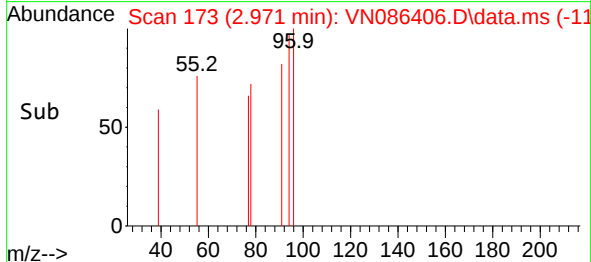
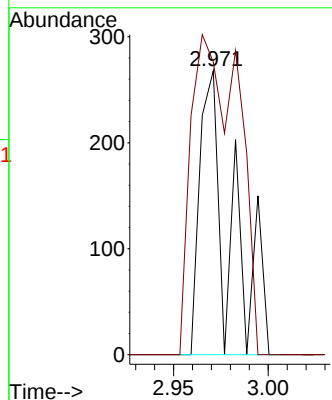
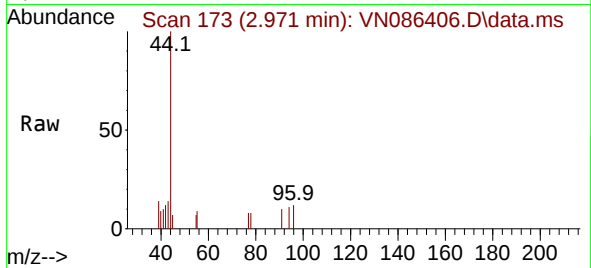




#5
Bromomethane
Concen: 0.229 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN086406.D
Acq: 28 Apr 2025 13:08

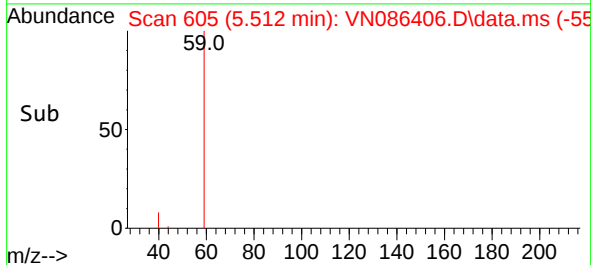
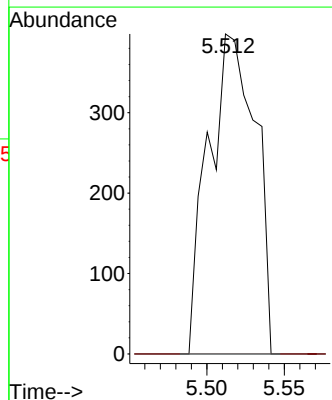
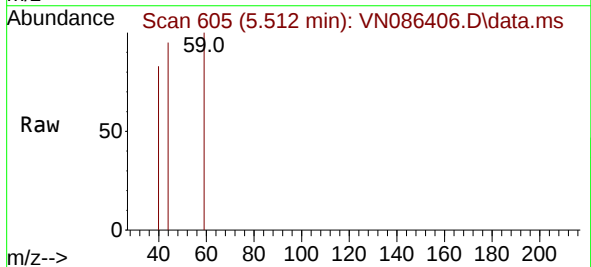
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#03

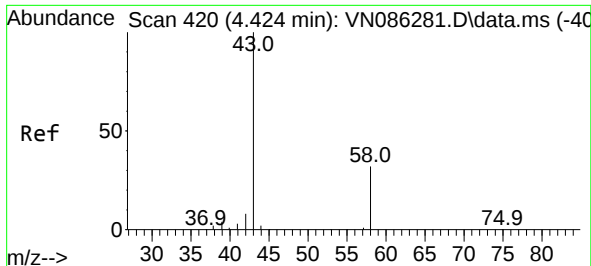
Tgt Ion: 94 Resp: 299
Ion Ratio Lower Upper
94 100
96 103.0 75.2 112.8



#11
Tert butyl alcohol
Concen: 1.799 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN086406.D
Acq: 28 Apr 2025 13:08

Tgt Ion: 59 Resp: 842
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

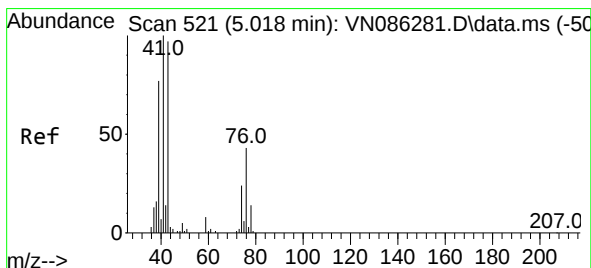
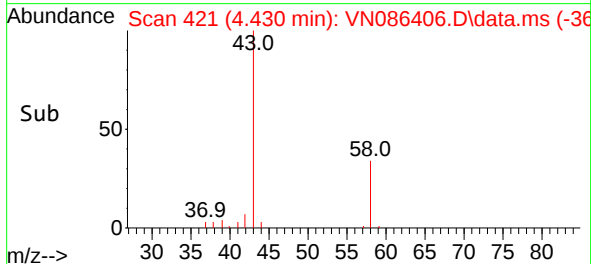
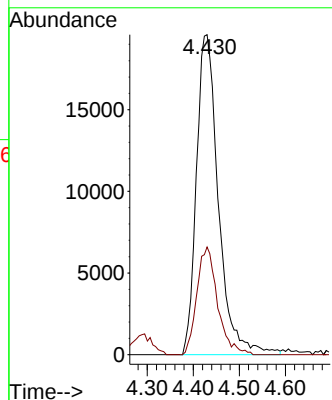
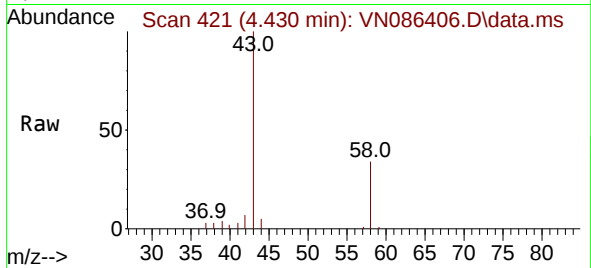




#16
Acetone
Concen: 69.234 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086406.D
Acq: 28 Apr 2025 13:08

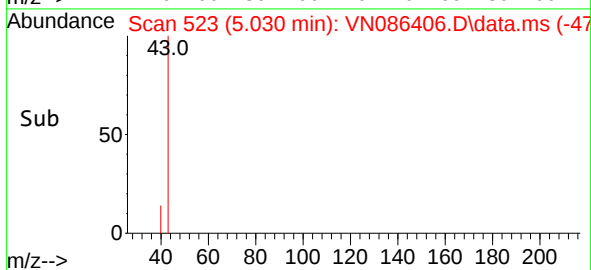
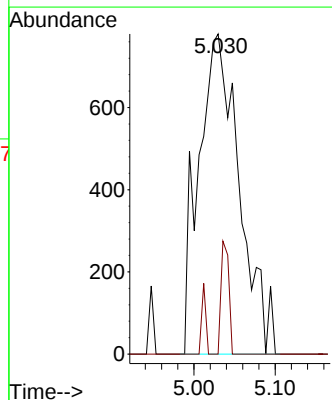
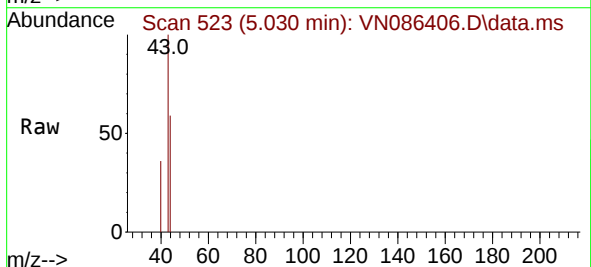
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#03

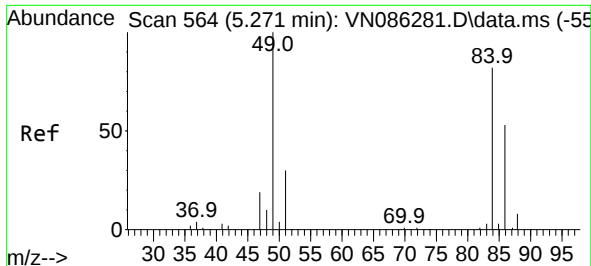
Tgt Ion: 43 Resp: 65058
Ion Ratio Lower Upper
43 100
58 33.7 25.3 37.9



#18
Methyl Acetate
Concen: 0.882 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN086406.D
Acq: 28 Apr 2025 13:08

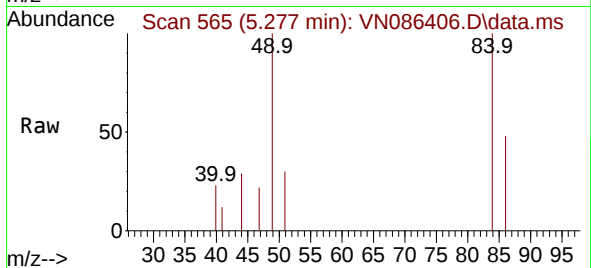
Tgt Ion: 43 Resp: 2717
Ion Ratio Lower Upper
43 100
74 6.7 19.8 29.6#



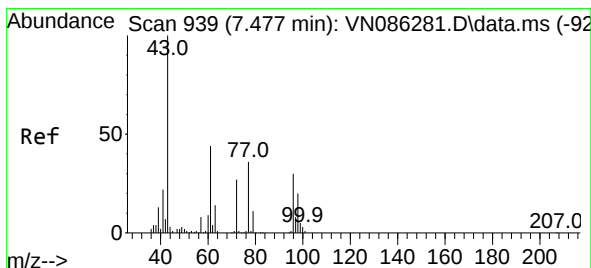
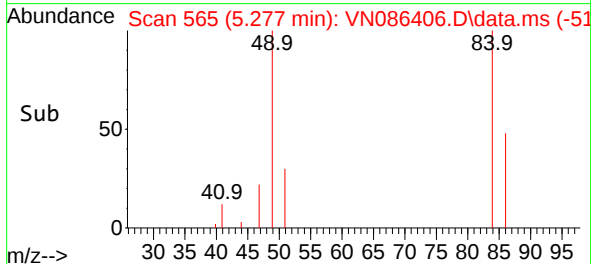
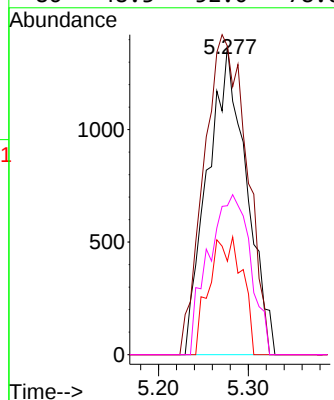


#20
Methylene Chloride
Concen: 1.736 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086406.D
Acq: 28 Apr 2025 13:08

Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#03

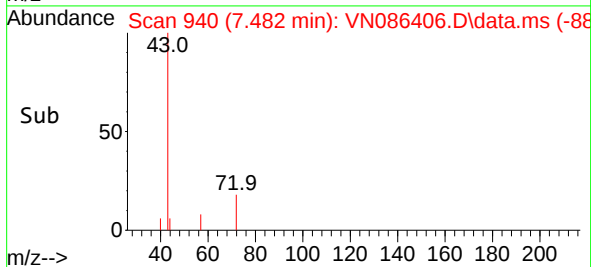
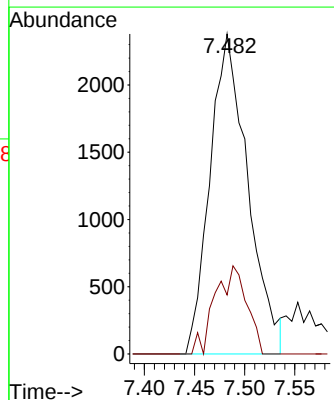
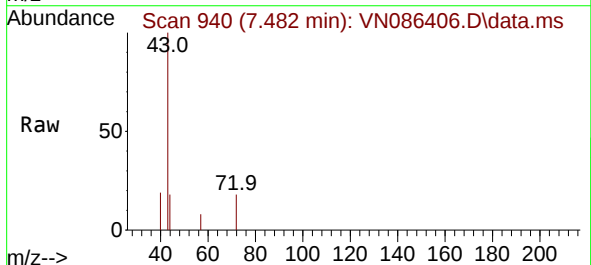


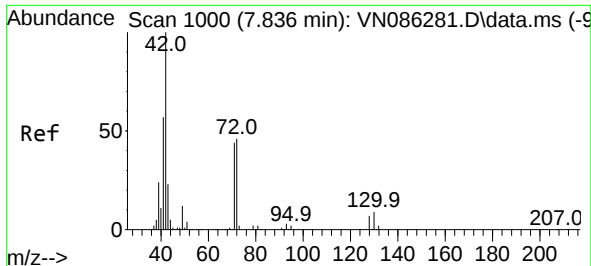
Tgt Ion: 84	Resp: 4117
Ion Ratio	Lower Upper
84 100	
49 99.9	98.2 147.2
51 30.2	29.8 44.6
86 48.3	52.0 78.0#



#25
2-Butanone
Concen: 3.915 ug/l
RT: 7.482 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086406.D
Acq: 28 Apr 2025 13:08

Tgt Ion: 43	Resp: 6251
Ion Ratio	Lower Upper
43 100	
72 18.5	21.7 32.5#





#29

Tetrahydrofuran

Concen: 0.622 ug/l

RT: 7.853 min Scan# 1065

Delta R.T. 0.018 min

Lab File: VN086406.D

Acq: 28 Apr 2025 13:08

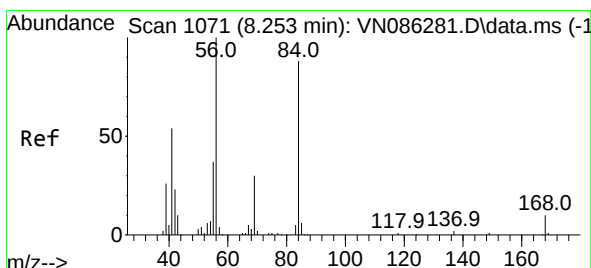
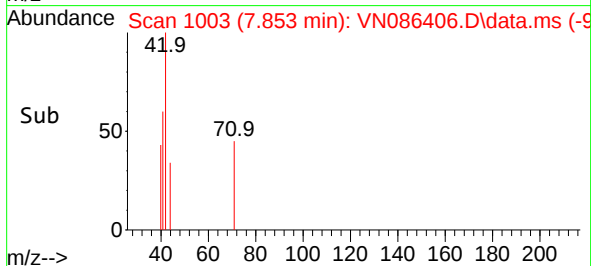
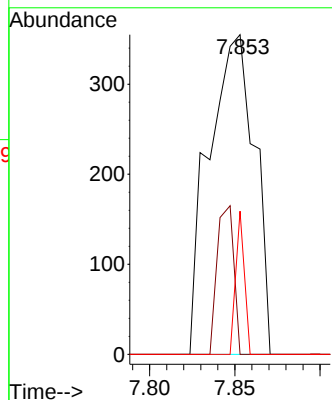
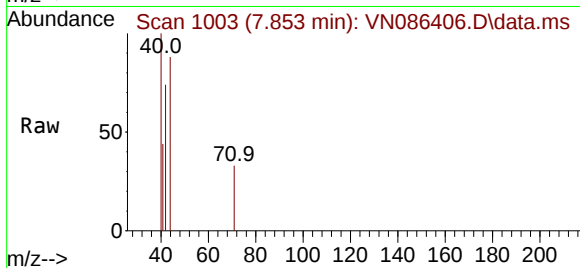
Instrument :

MSVOA_N

ClientSampleId :

PB167744ZHE#03

Tgt Ion:	42	Resp:	664
Ion	Ratio	Lower	Upper
42	100		
72	16.9	36.2	54.4#
71	8.4	34.0	51.0#



#31

Cyclohexane

Concen: 0.973 ug/l

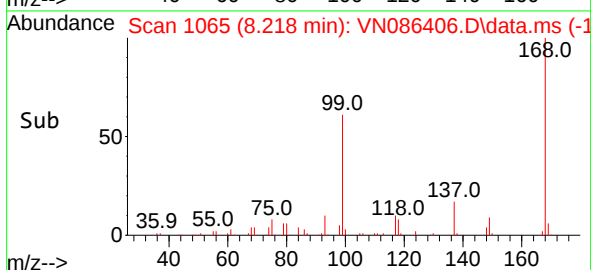
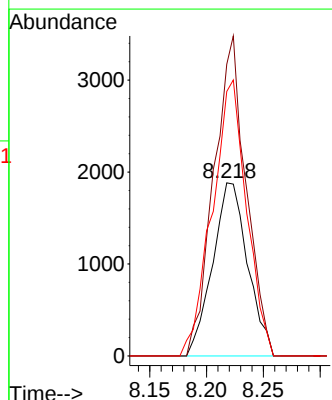
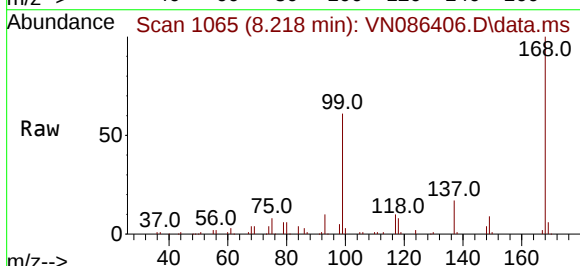
RT: 8.218 min Scan# 1065

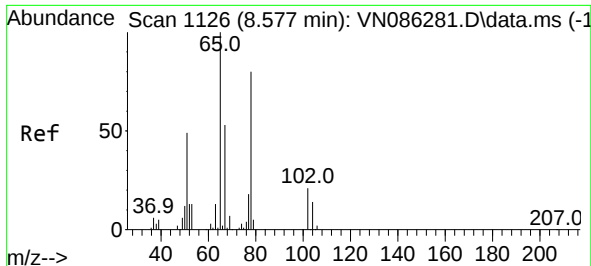
Delta R.T. -0.035 min

Lab File: VN086406.D

Acq: 28 Apr 2025 13:08

Tgt Ion:	56	Resp:	4043
Ion	Ratio	Lower	Upper
56	100		
69	168.5	24.2	36.2#
84	152.8	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 48.790 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086406.D

Acq: 28 Apr 2025 13:08

Instrument :

MSVOA_N

ClientSampleId :

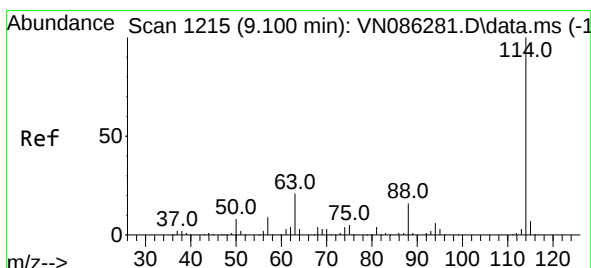
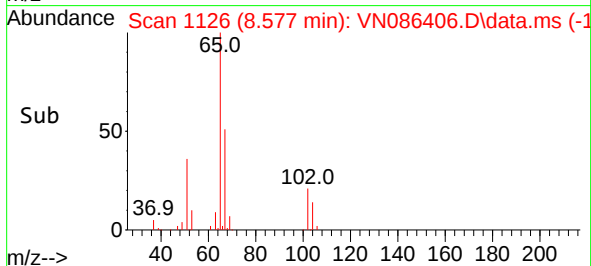
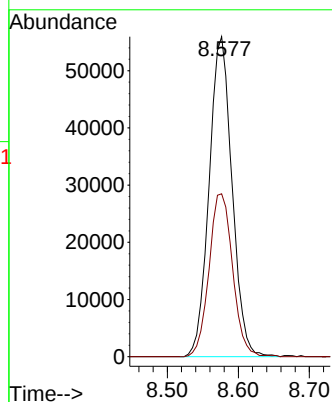
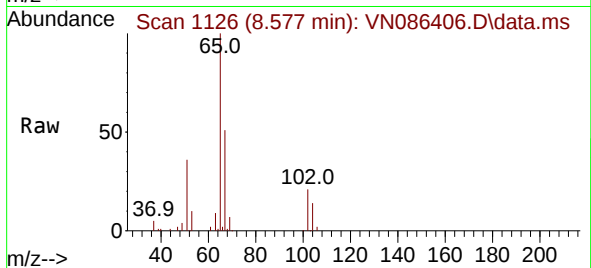
PB167744ZHE#03

Tgt Ion: 65 Resp: 125145

Ion Ratio Lower Upper

65 100

67 52.5 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: VN086406.D

Acq: 28 Apr 2025 13:08

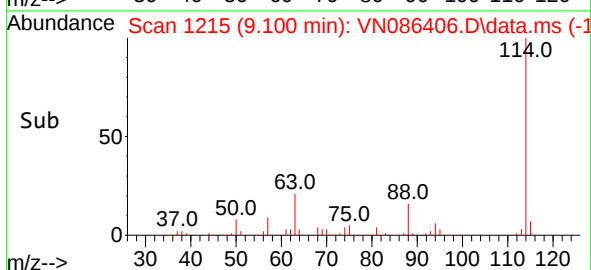
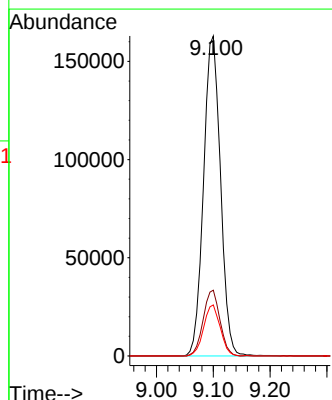
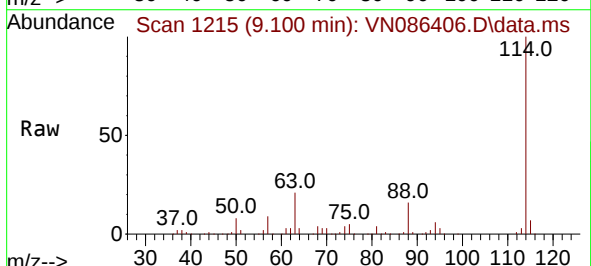
Tgt Ion: 114 Resp: 336926

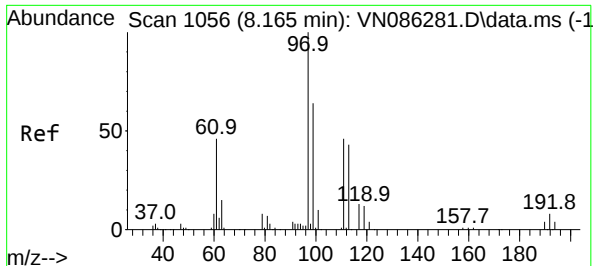
Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.6

88 15.9 0.0 31.8





#35

Dibromofluoromethane

Concen: 52.818 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086406.D

Acq: 28 Apr 2025 13:08

Instrument :

MSVOA_N

ClientSampleId :

PB167744ZHE#03

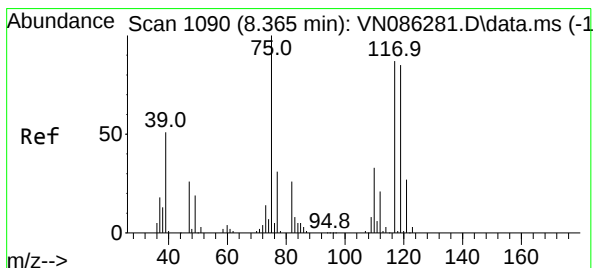
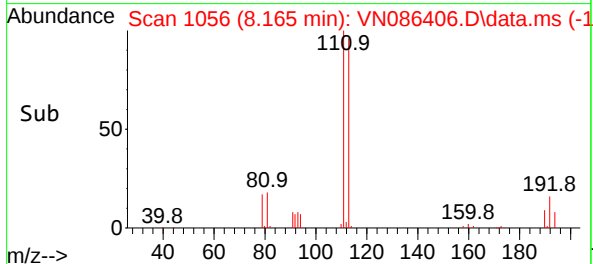
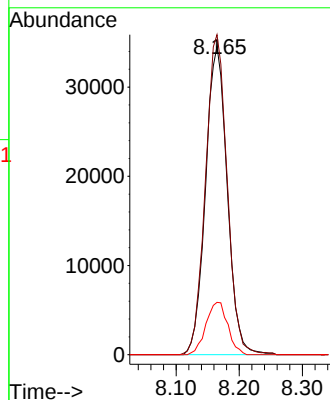
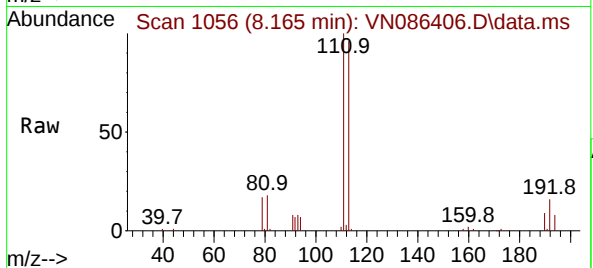
Tgt Ion:113 Resp: 82593

Ion Ratio Lower Upper

113 100

111 103.6 83.4 125.0

192 17.0 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.854 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086406.D

Acq: 28 Apr 2025 13:08

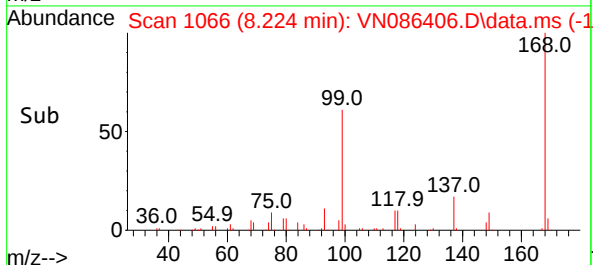
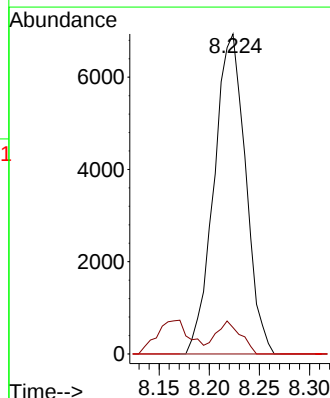
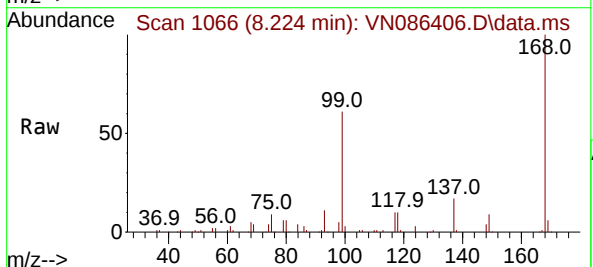
Tgt Ion: 75 Resp: 15161

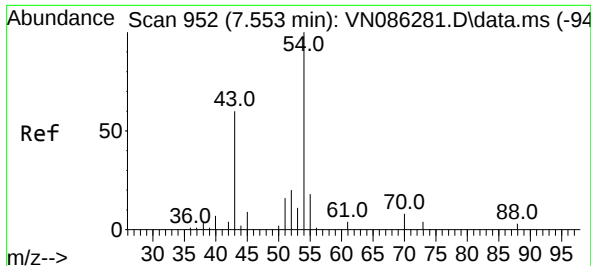
Ion Ratio Lower Upper

75 100

110 8.1 16.8 50.4#

77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 1.901 ug/l

RT: 7.482 min Scan# 94

Delta R.T. -0.071 min

Lab File: VN086406.D

Acq: 28 Apr 2025 13:08

Instrument :

MSVOA_N

ClientSampleId :

PB167744ZHE#03

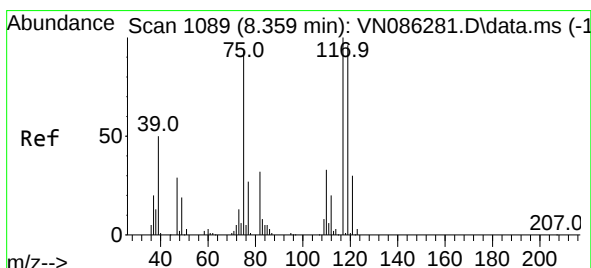
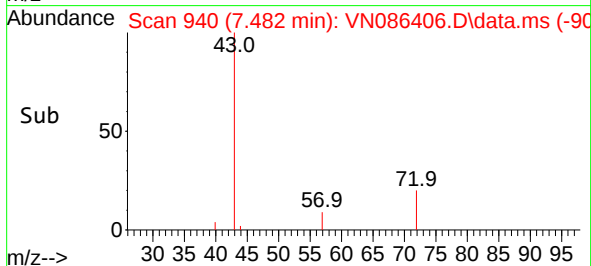
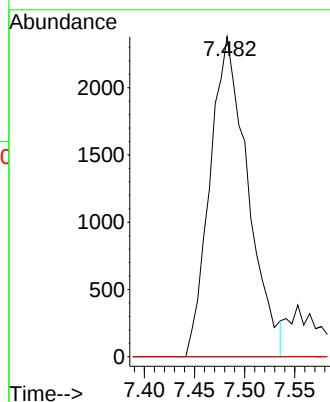
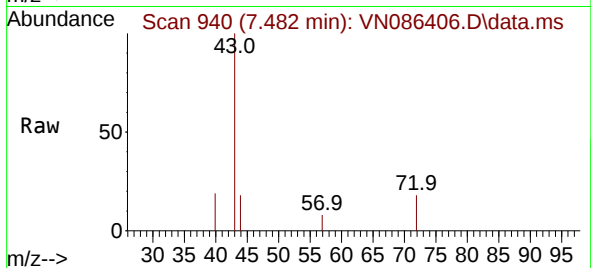
Tgt Ion: 43 Resp: 6251

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 9.2 13.8#



#38

Carbon Tetrachloride

Concen: 6.195 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086406.D

Acq: 28 Apr 2025 13:08

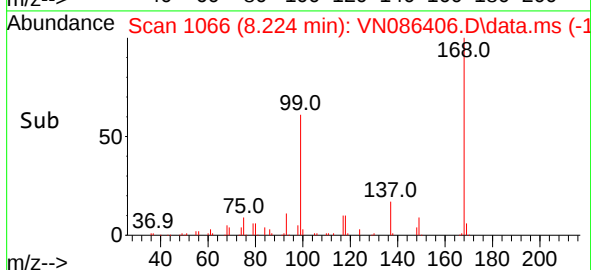
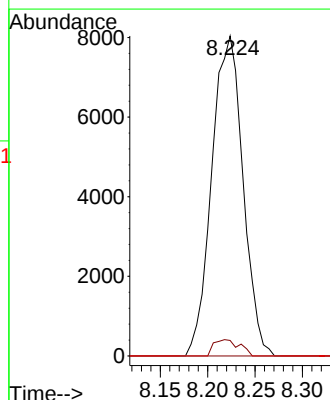
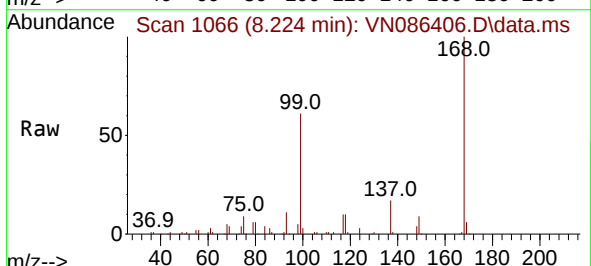
Tgt Ion: 117 Resp: 18425

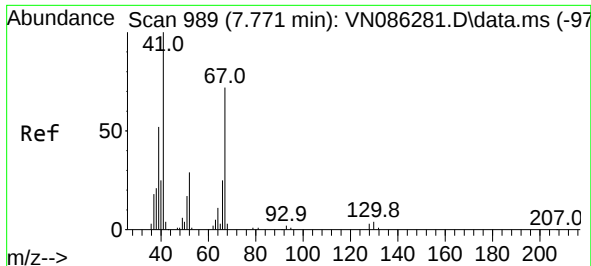
Ion Ratio Lower Upper

117 100

119 4.9 76.8 115.2#

121 0.0 23.8 35.8#

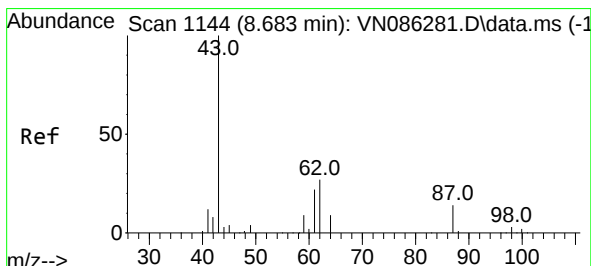
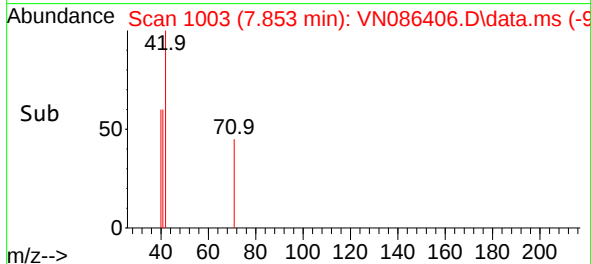
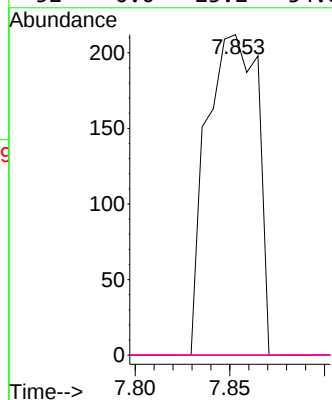
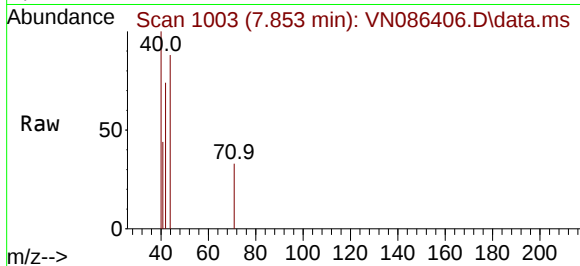




#41
Methacrylonitrile
Concen: 0.207 ug/l
RT: 7.853 min Scan# 1103
Delta R.T. 0.082 min
Lab File: VN086406.D
Acq: 28 Apr 2025 13:08

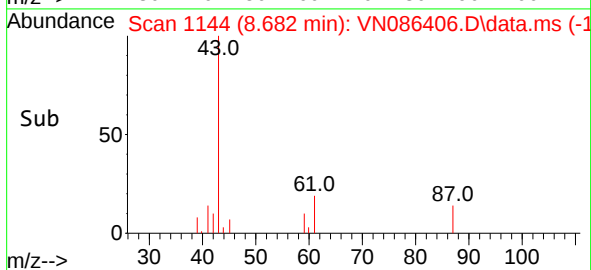
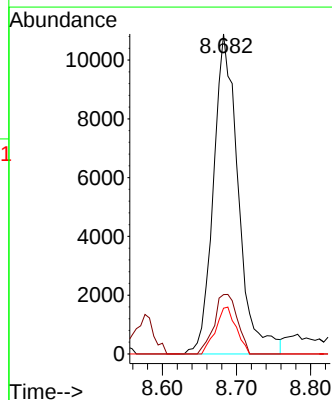
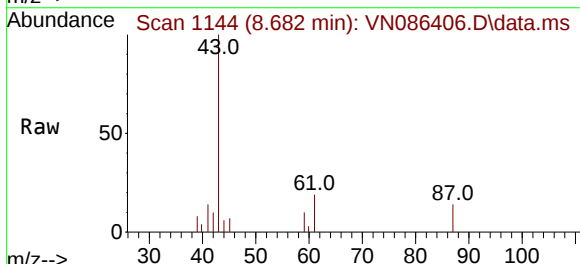
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#03

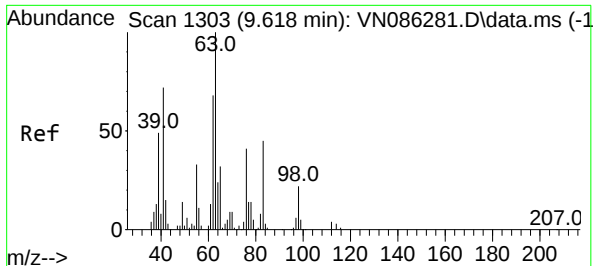
Tgt Ion:	41	Resp:	395
Ion	Ratio	Lower	Upper
41	100		
39	0.0	43.0	64.4#
67	0.0	58.8	88.2#
52	0.0	23.2	34.8#



#43
Isopropyl Acetate
Concen: 2.483 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.001 min
Lab File: VN086406.D
Acq: 28 Apr 2025 13:08

Tgt Ion:	43	Resp:	25367
Ion	Ratio	Lower	Upper
43	100		
61	17.4	20.5	30.7#
87	12.0	10.5	15.7





#45

1,2-Dichloropropane

Concen: 0.429 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.117 min

Lab File: VN086406.D

Acq: 28 Apr 2025 13:08

Instrument :

MSVOA_N

ClientSampleId :

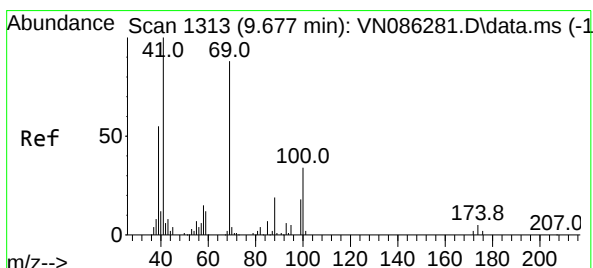
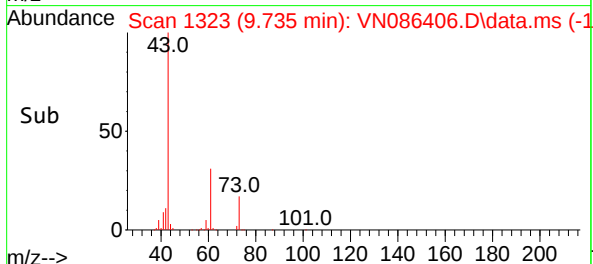
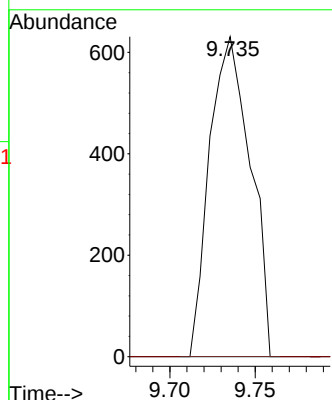
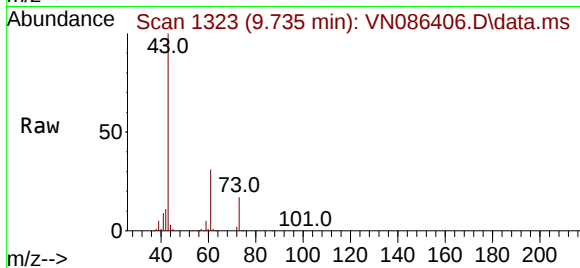
PB167744ZHE#03

Tgt Ion: 63 Resp: 1051

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 24.215 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.059 min

Lab File: VN086406.D

Acq: 28 Apr 2025 13:08

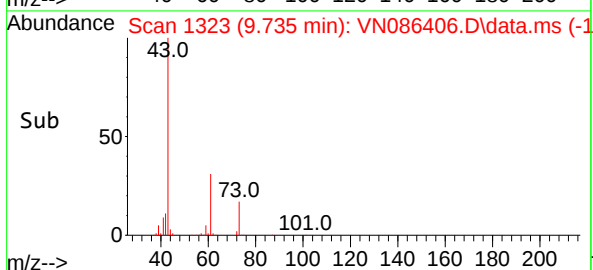
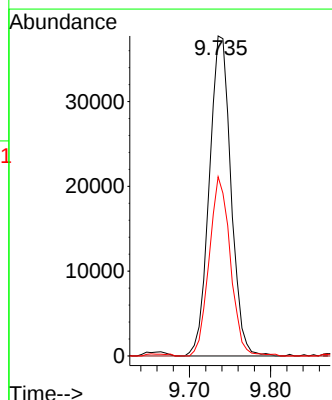
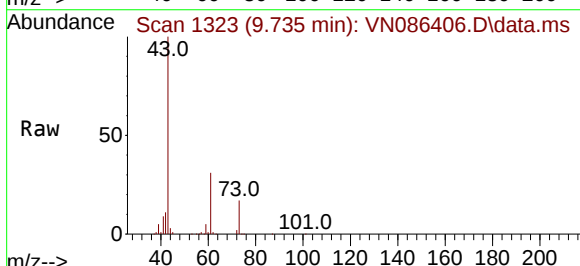
Tgt Ion: 41 Resp: 69923

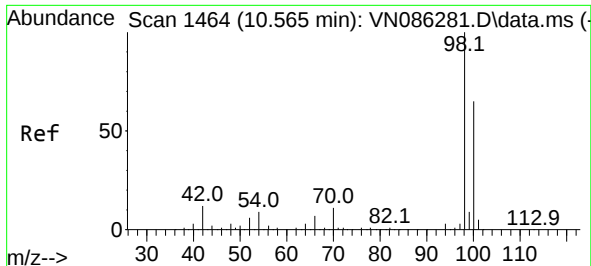
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 54.8 45.2 67.8

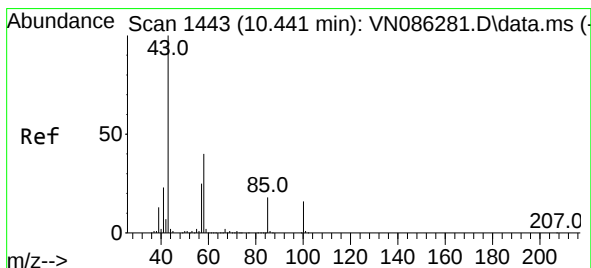
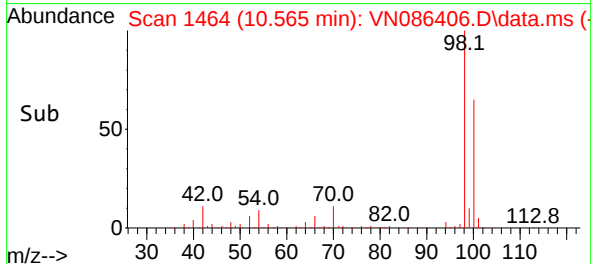
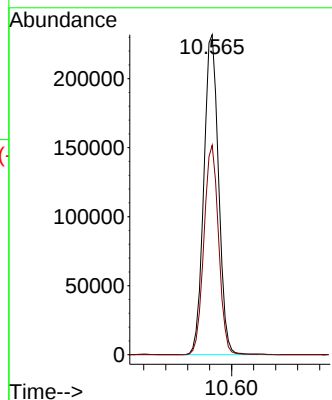
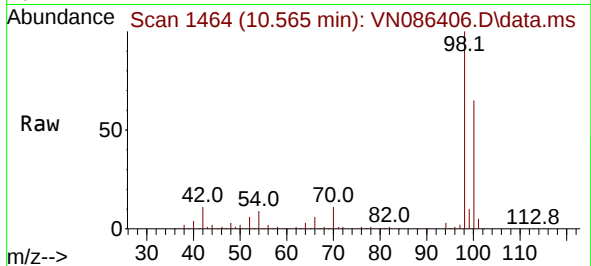




#50
Toluene-d8
Concen: 51.572 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086406.D
Acq: 28 Apr 2025 13:08

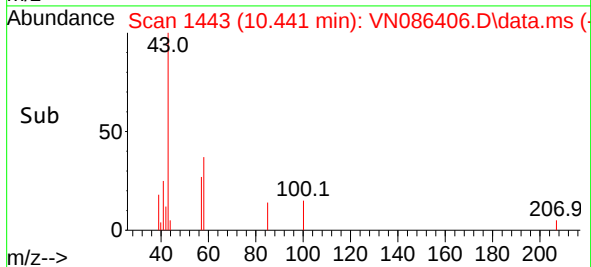
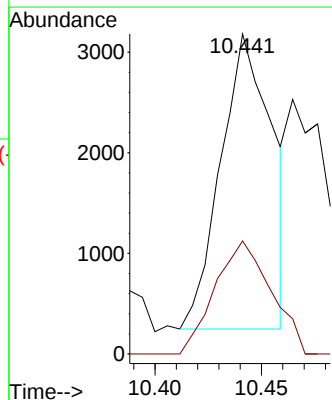
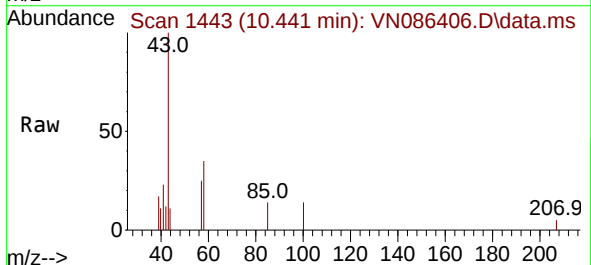
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#03

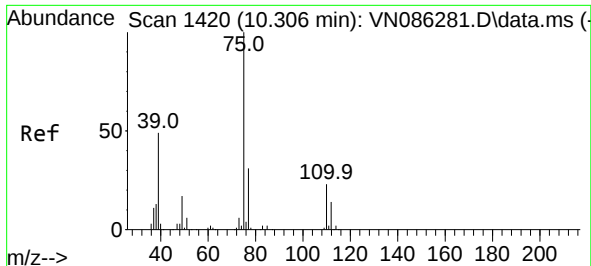
Tgt Ion: 98 Resp: 431004
Ion Ratio Lower Upper
98 100
100 65.1 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.458 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086406.D
Acq: 28 Apr 2025 13:08

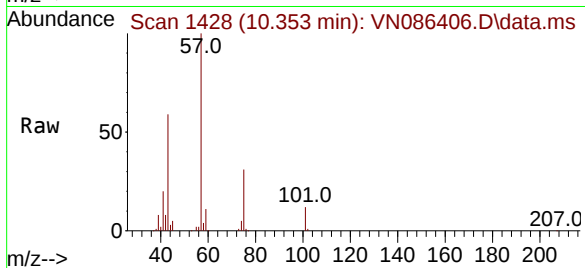
Tgt Ion: 43 Resp: 4908
Ion Ratio Lower Upper
43 100
58 41.9 32.2 48.4



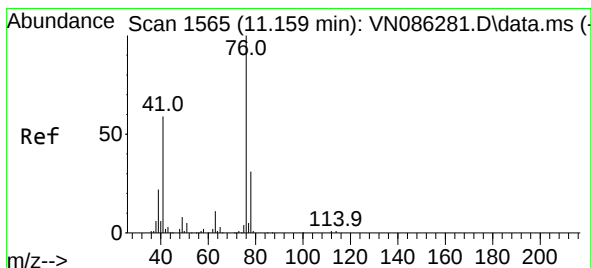
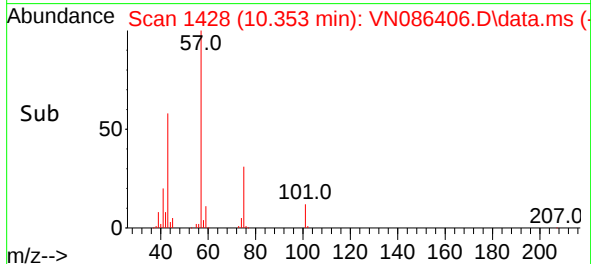
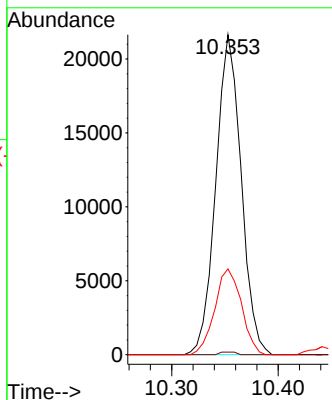


#54
cis-1,3-Dichloropropene
Concen: 8.645 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086406.D
Acq: 28 Apr 2025 13:08

Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#03

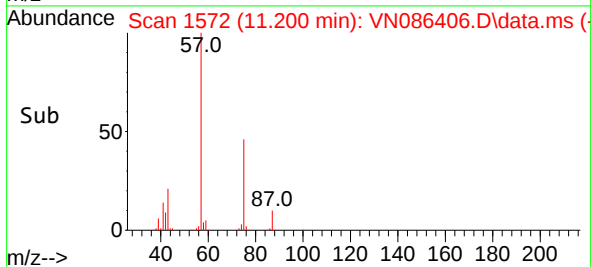
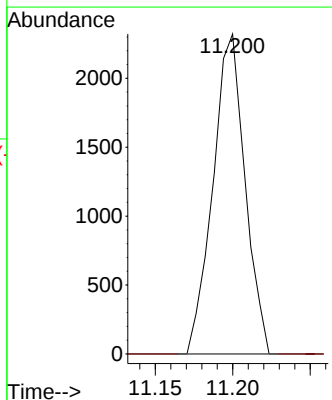
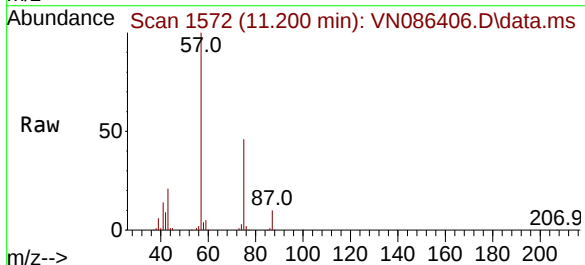


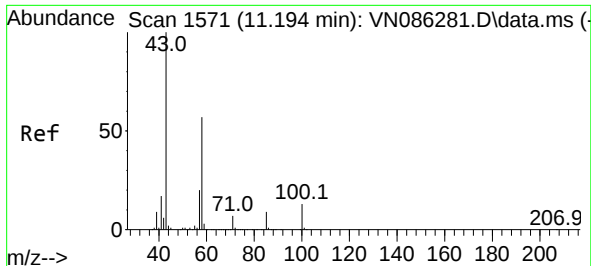
Tgt Ion: 75 Resp: 35727
Ion Ratio Lower Upper
75 100
77 0.8 25.2 37.8#
39 26.8 39.3 58.9#



#57
1,3-Dichloropropane
Concen: 0.838 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086406.D
Acq: 28 Apr 2025 13:08

Tgt Ion: 76 Resp: 3341
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#

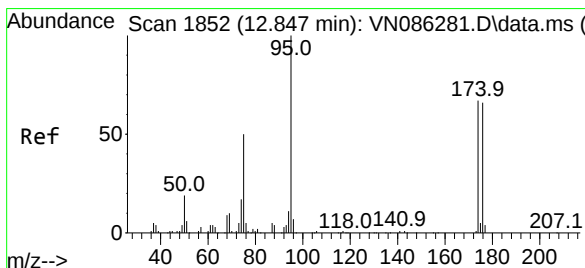
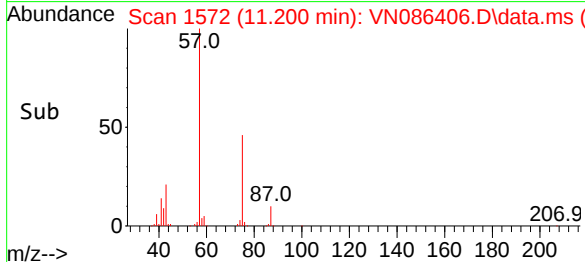
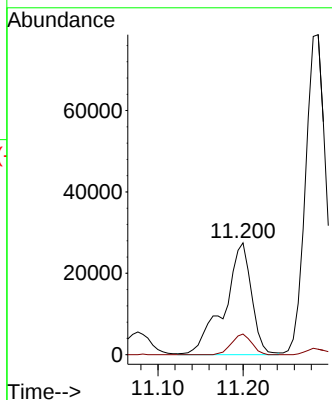
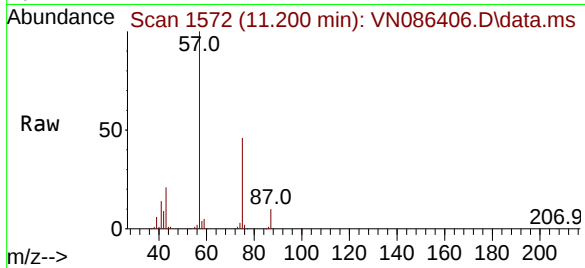




#59
2-Hexanone
Concen: 24.523 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086406.D
Acq: 28 Apr 2025 13:08

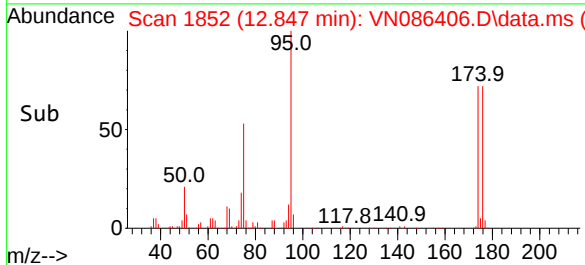
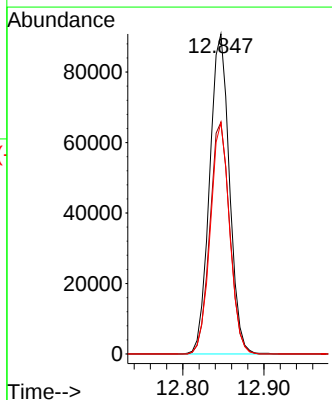
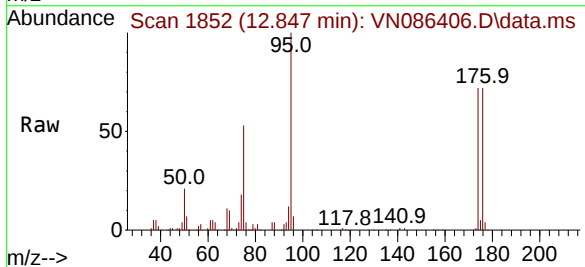
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#03

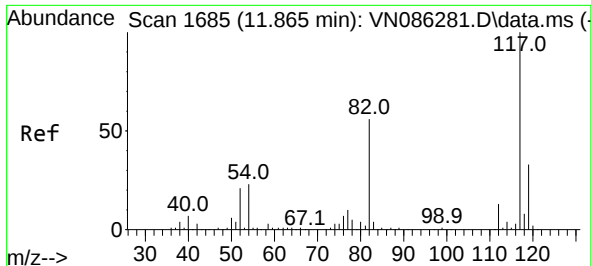
Tgt Ion: 43 Resp: 61245
Ion Ratio Lower Upper
43 100
58 13.6 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 50.470 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086406.D
Acq: 28 Apr 2025 13:08

Tgt Ion: 95 Resp: 153846
Ion Ratio Lower Upper
95 100
174 72.3 0.0 133.4
176 70.5 0.0 129.2

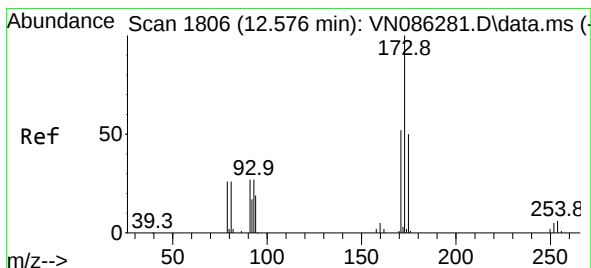
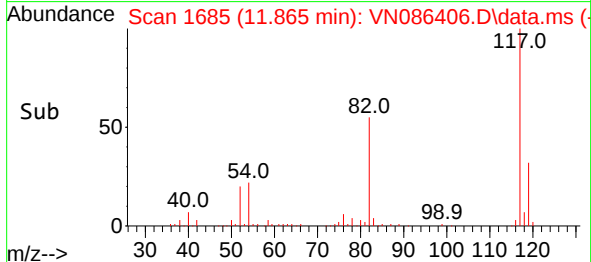
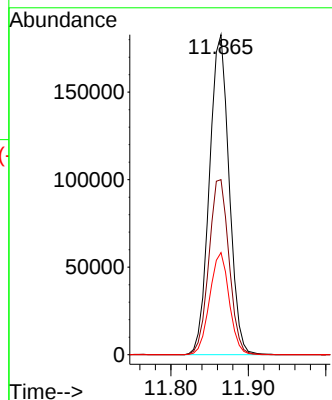
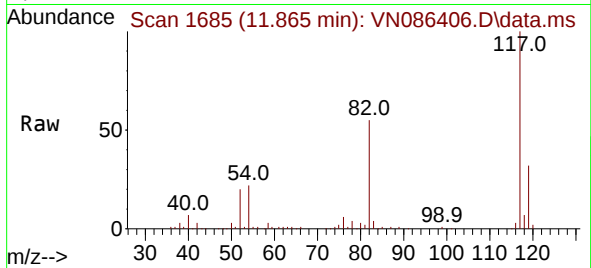




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086406.D
Acq: 28 Apr 2025 13:08

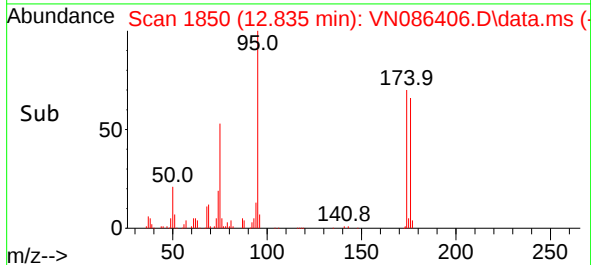
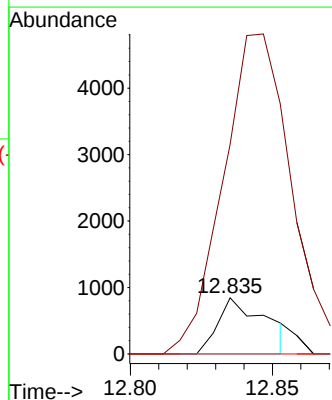
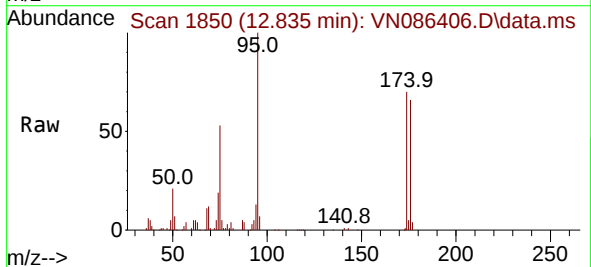
Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#03

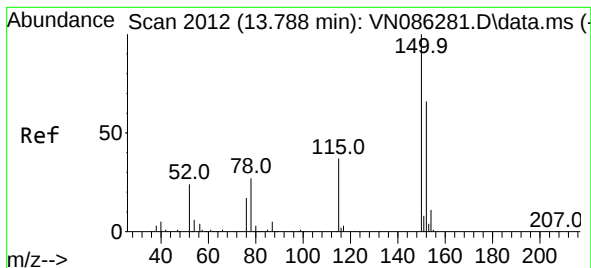
Tgt Ion:117 Resp: 322671
Ion Ratio Lower Upper
117 100
82 54.7 44.7 67.1
119 31.9 26.4 39.6



#71
Bromoform
Concen: 0.549 ug/l
RT: 12.835 min Scan# 1850
Delta R.T. 0.259 min
Lab File: VN086406.D
Acq: 28 Apr 2025 13:08

Tgt Ion:173 Resp: 982
Ion Ratio Lower Upper
173 100
175 690.9 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: VN086406.D

Acq: 28 Apr 2025 13:08

Instrument :

MSVOA_N

ClientSampleId :

PB167744ZHE#03

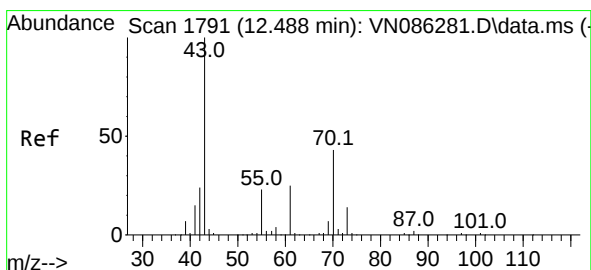
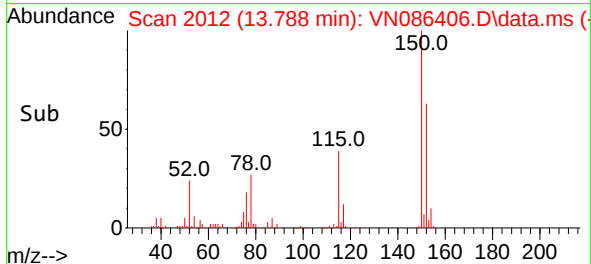
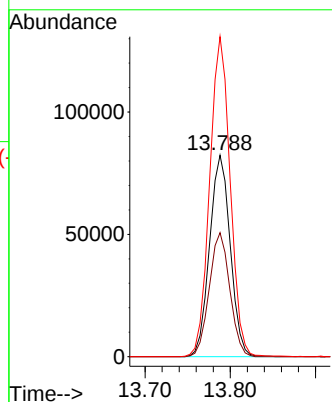
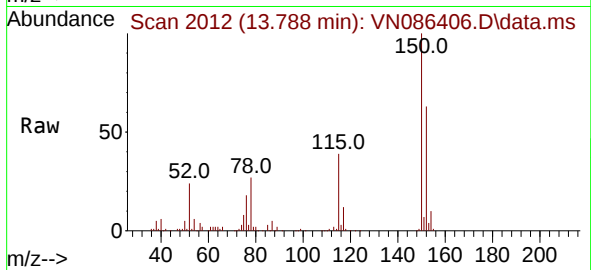
Tgt Ion:152 Resp: 138646

Ion Ratio Lower Upper

152 100

115 61.2 31.9 95.9

150 157.4 0.0 352.0



#74

N-ethyl acetate

Concen: 0.539 ug/l

RT: 12.453 min Scan# 1785

Delta R.T. -0.035 min

Lab File: VN086406.D

Acq: 28 Apr 2025 13:08

Tgt Ion: 43 Resp: 3041

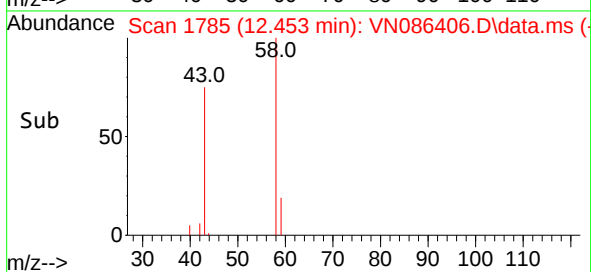
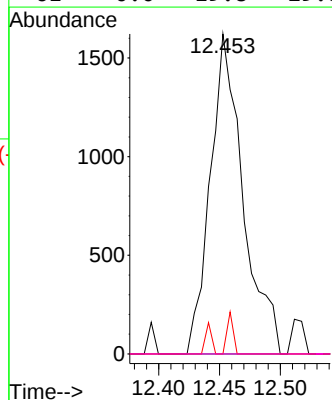
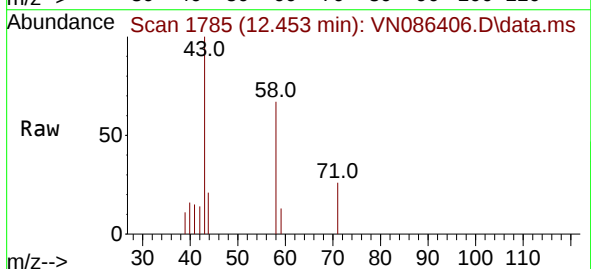
Ion Ratio Lower Upper

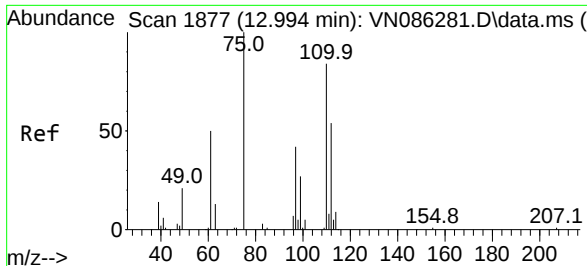
43 100

70 0.0 35.0 52.4#

55 2.5 19.0 28.4#

61 0.0 19.8 29.8#

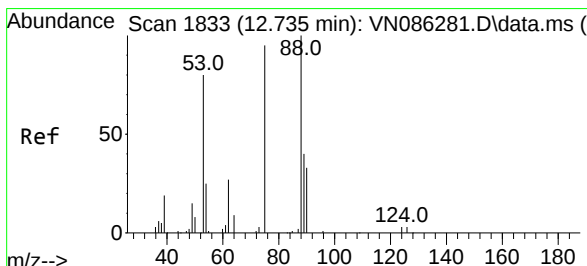
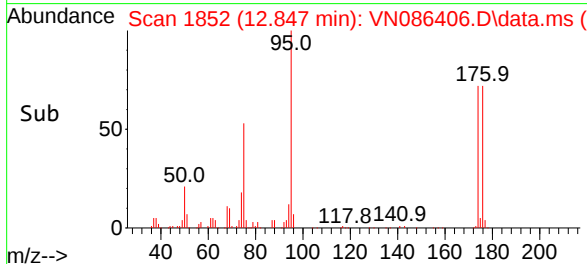
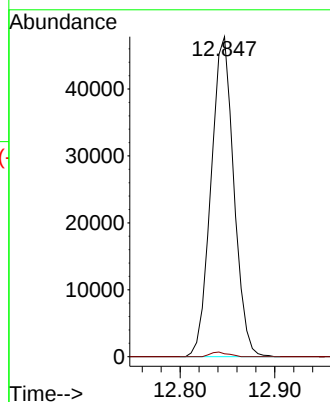
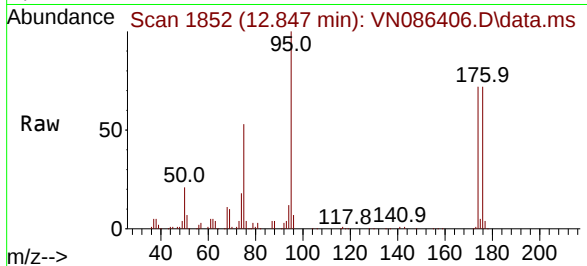




#76
1,2,3-Trichloropropane
Concen: 24.484 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086406.D
Acq: 28 Apr 2025 13:08

Instrument :
MSVOA_N
ClientSampleId :
PB167744ZHE#03

Tgt Ion: 75 Resp: 80107
Ion Ratio Lower Upper
75 100
77 1.1 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 58.801 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086406.D
Acq: 28 Apr 2025 13:08

Tgt Ion: 75 Resp: 80107
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

