

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN043025\
 Data File : VN086438.D
 Acq On : 30 Apr 2025 15:52
 Operator : JC\MD
 Sample : PB167775ZHE#08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#08

Quant Time: May 01 01:35:25 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)

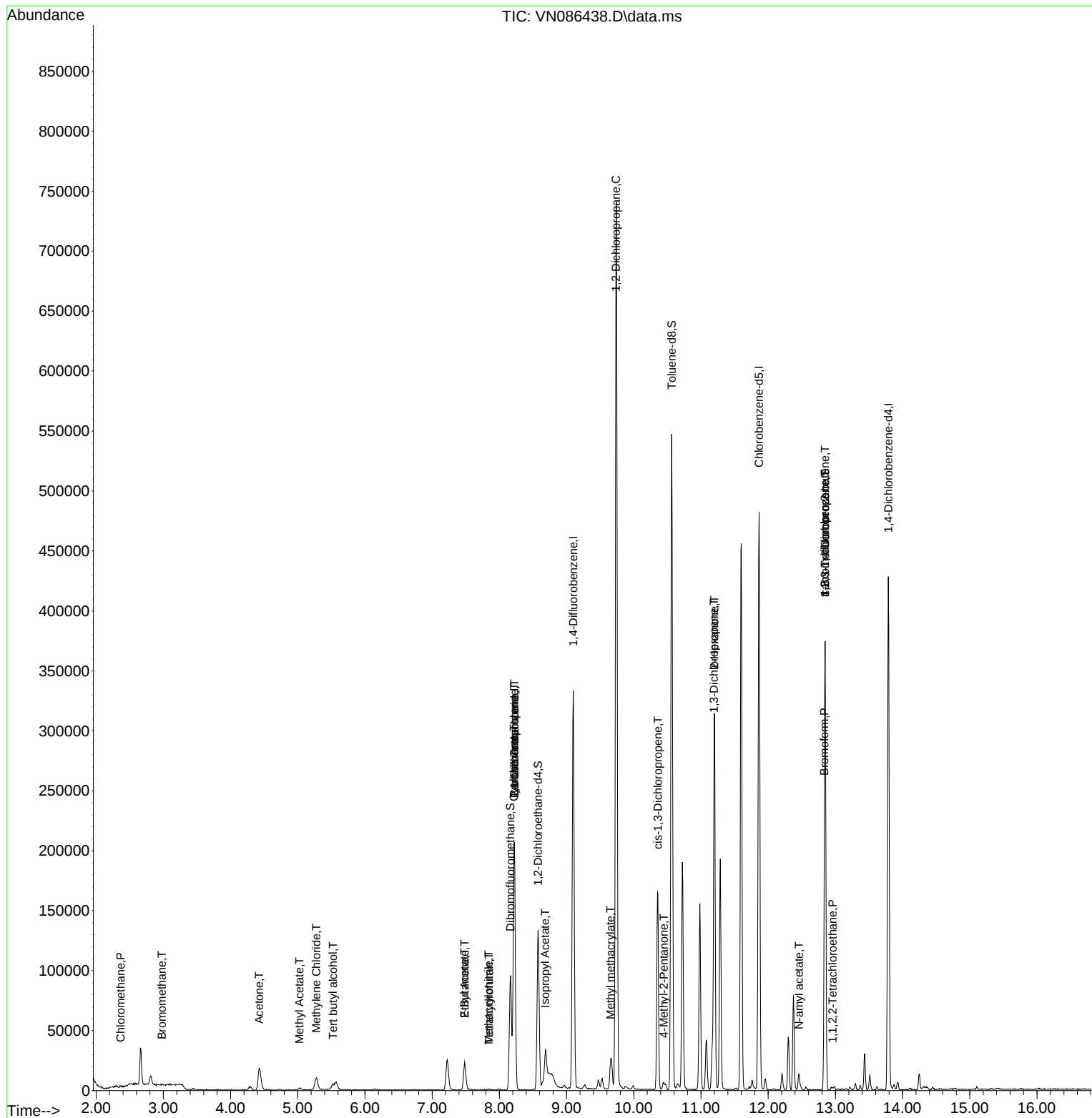
Internal Standards						
1) Pentafluorobenzene	8.224	168	152396	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	290562	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	278585	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	115953	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	108560	49.125	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.240%		
35) Dibromofluoromethane	8.165	113	69036	51.193	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	102.380%		
50) Toluene-d8	10.565	98	372168	51.638	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.280%		
62) 4-Bromofluorobenzene	12.847	95	131749	50.118	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	100.240%		
Target Compounds						Qvalue
3) Chloromethane	2.365	50	708	0.270	ug/l #	42
5) Bromomethane	2.977	94	273	0.242	ug/l	82
11) Tert butyl alcohol	5.524	59	7734	19.181	ug/l #	82
16) Acetone	4.424	43	36591	43.170	ug/l	99
18) Methyl Acetate	5.024	43	3782	1.426	ug/l #	51
20) Methylene Chloride	5.277	84	8453	4.138	ug/l	89
25) 2-Butanone	7.483	43	36167	26.293	ug/l #	89
29) Tetrahydrofuran	7.847	42	774	0.841	ug/l #	32
31) Cyclohexane	8.218	56	3276	0.915	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	12759	4.737	ug/l #	49
37) Ethyl Acetate	7.483	43	36167	12.754	ug/l #	68
38) Carbon Tetrachloride	8.224	117	16003	6.239	ug/l #	16
41) Methacrylonitrile	7.841	41	344	0.209	ug/l #	33
43) Isopropyl Acetate	8.683	43	50185	8.146	ug/l #	76
45) 1,2-Dichloropropane	9.735	63	843	0.399	ug/l #	43
48) Methyl methacrylate	9.653	41	5315	2.134	ug/l #	41
51) 4-Methyl-2-Pentanone	10.447	43	3864	1.331	ug/l	91
54) cis-1,3-Dichloropropene	10.359	75	31740	8.905	ug/l #	58
57) 1,3-Dichloropropane	11.194	76	3227	0.939	ug/l #	43
59) 2-Hexanone	11.200	43	82595	38.348	ug/l #	52
71) Bromoform	12.835	173	660	0.427	ug/l #	1
74) N-amyl acetate	12.459	43	9350	1.980	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	12.959	83	876	0.321	ug/l #	25
76) 1,2,3-Trichloropropane	12.847	75	67175	24.549	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	67175	58.959	ug/l #	10

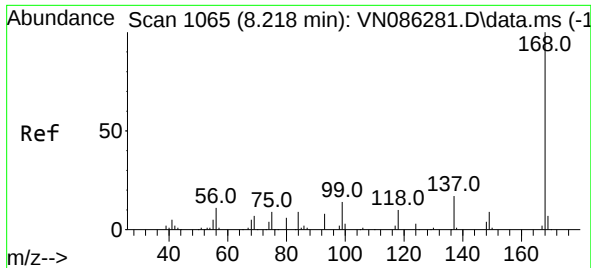
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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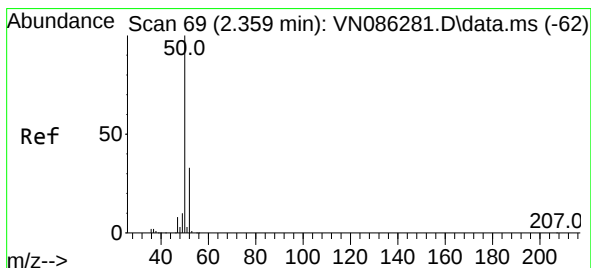
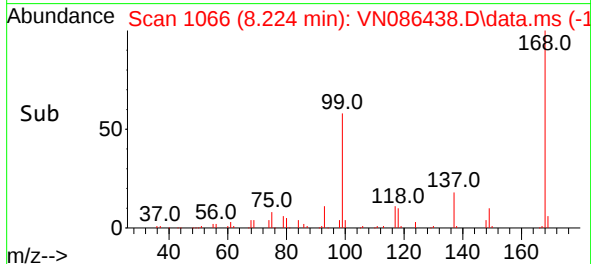
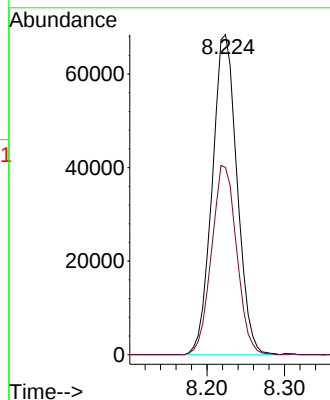
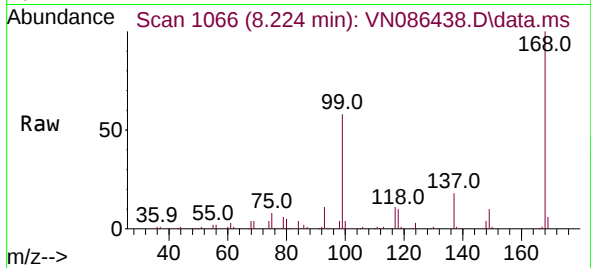




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086438.D
Acq: 30 Apr 2025 15:52

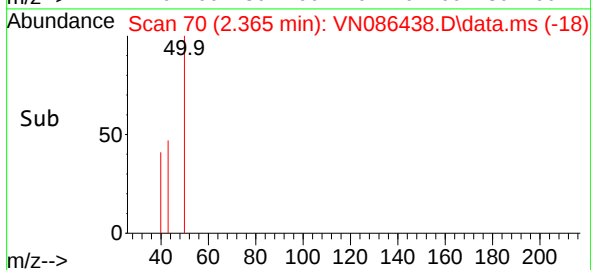
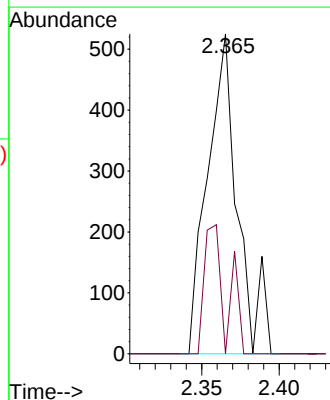
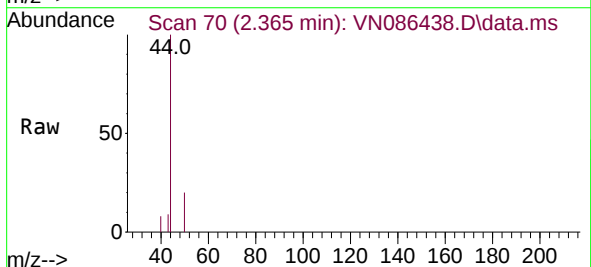
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#08

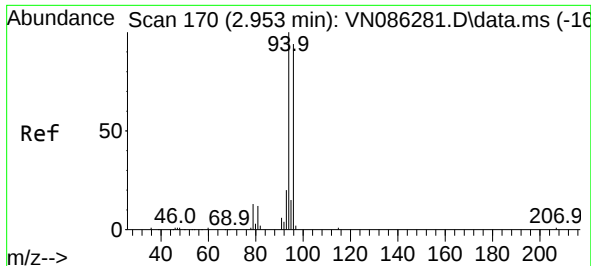
Tgt Ion:168 Resp: 152396
Ion Ratio Lower Upper
168 100
99 58.5 52.5 78.7



#3
Chloromethane
Concen: 0.270 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086438.D
Acq: 30 Apr 2025 15:52

Tgt Ion: 50 Resp: 708
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

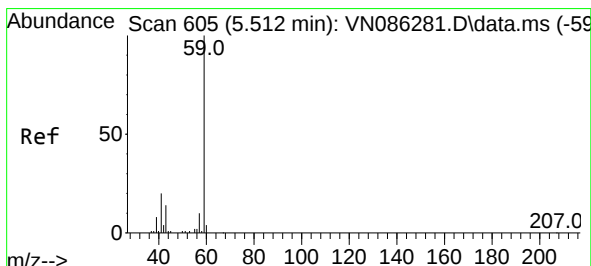
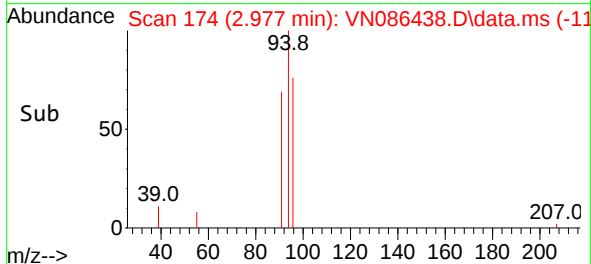
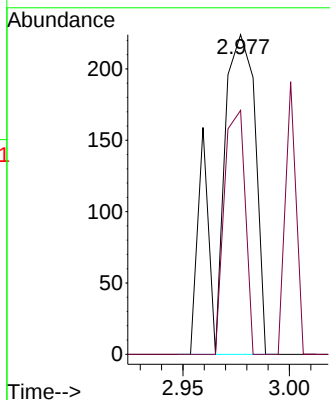
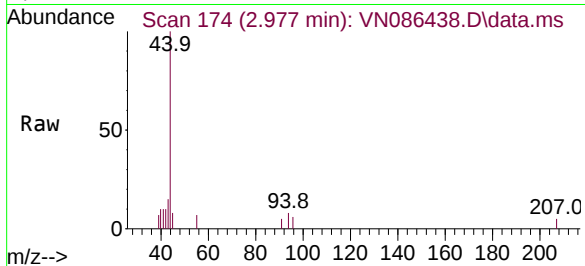




#5
Bromomethane
Concen: 0.242 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN086438.D
Acq: 30 Apr 2025 15:52

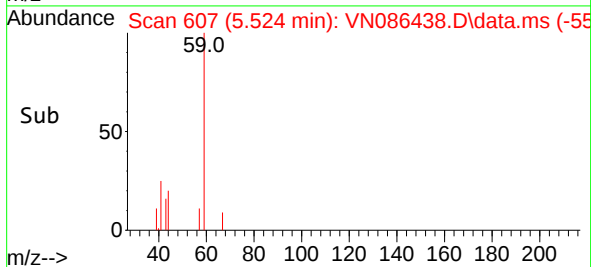
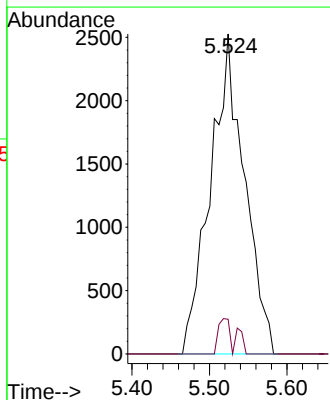
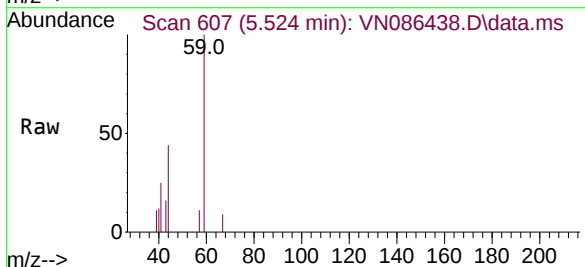
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#08

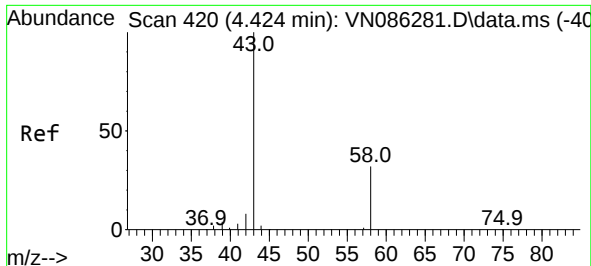
Tgt Ion: 94 Resp: 273
Ion Ratio Lower Upper
94 100
96 76.3 75.2 112.8



#11
Tert butyl alcohol
Concen: 19.181 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.012 min
Lab File: VN086438.D
Acq: 30 Apr 2025 15:52

Tgt Ion: 59 Resp: 7734
Ion Ratio Lower Upper
59 100
57 3.6 8.3 12.5#

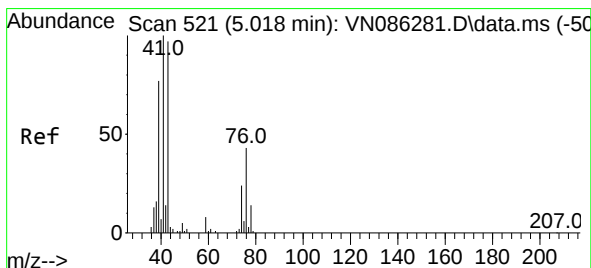
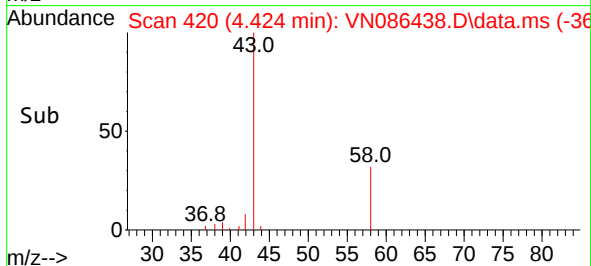
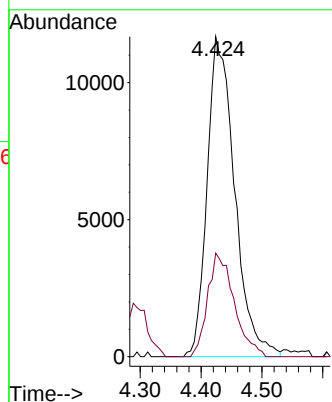
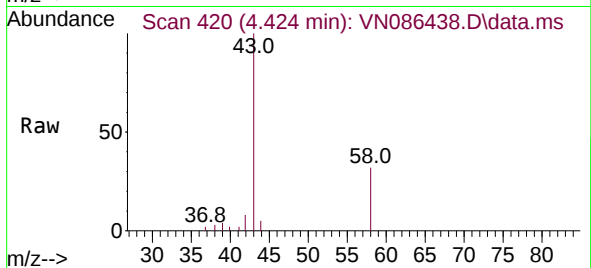




#16
Acetone
Concen: 43.170 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN086438.D
Acq: 30 Apr 2025 15:52

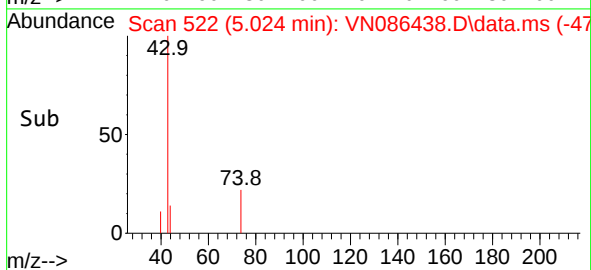
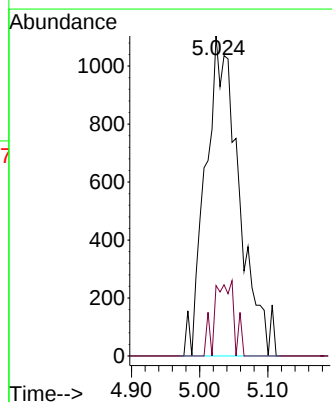
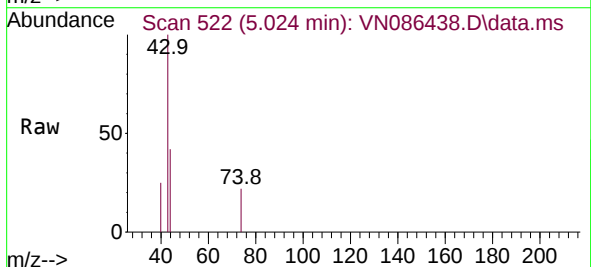
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#08

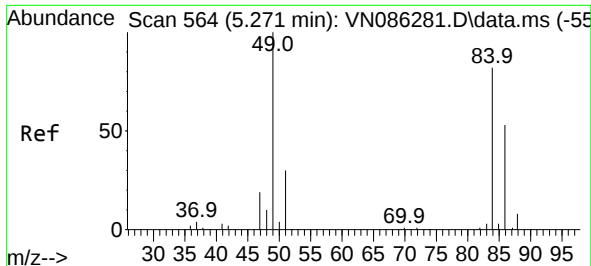
Tgt Ion: 43 Resp: 36591
Ion Ratio Lower Upper
43 100
58 32.3 25.3 37.9



#18
Methyl Acetate
Concen: 1.426 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN086438.D
Acq: 30 Apr 2025 15:52

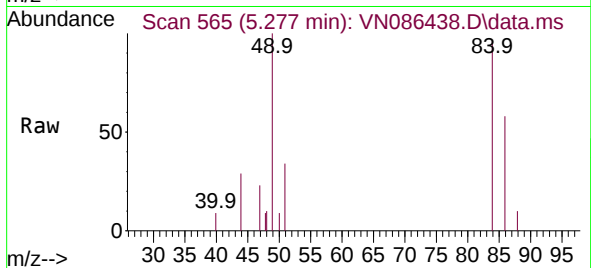
Tgt Ion: 43 Resp: 3782
Ion Ratio Lower Upper
43 100
74 0.0 19.8 29.6#



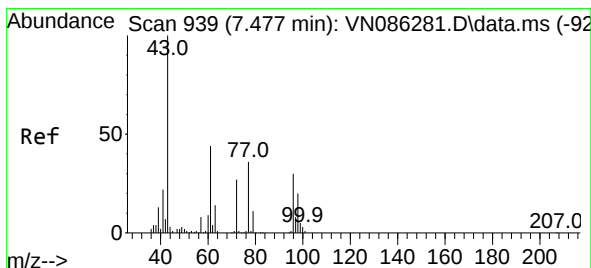
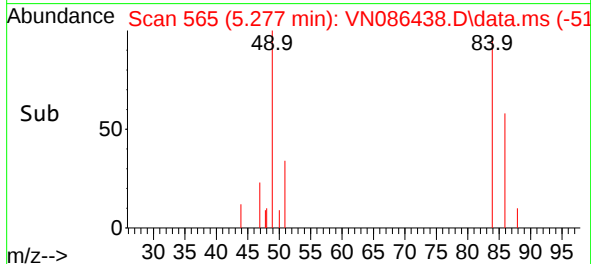
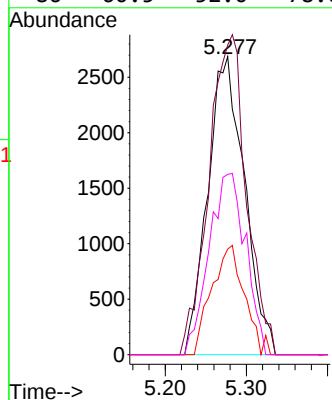


#20
Methylene Chloride
Concen: 4.138 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086438.D
Acq: 30 Apr 2025 15:52

Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#08

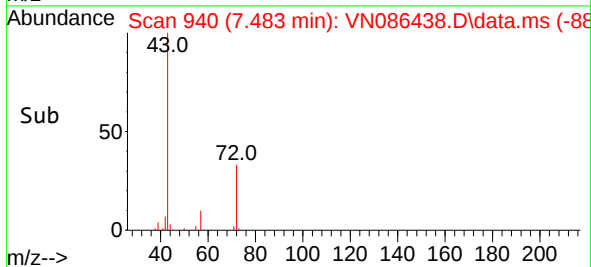
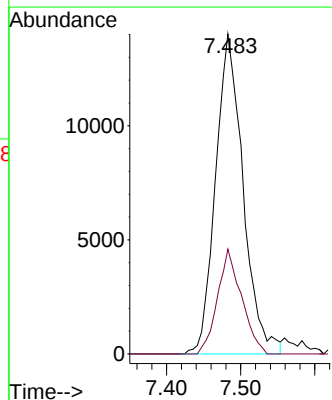
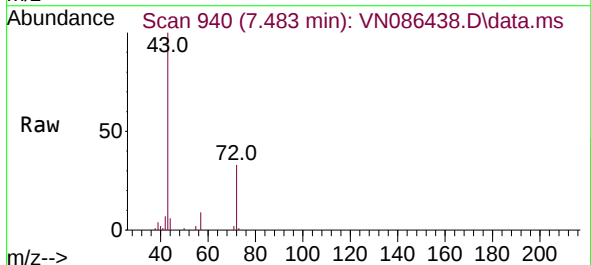


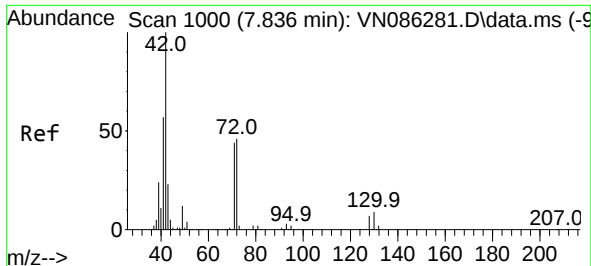
Tgt Ion:	84	Resp:	8453
Ion	Ratio	Lower	Upper
84	100		
49	103.9	98.2	147.2
51	35.4	29.8	44.6
86	60.5	52.0	78.0



#25
2-Butanone
Concen: 26.293 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086438.D
Acq: 30 Apr 2025 15:52

Tgt Ion:	43	Resp:	36167
Ion	Ratio	Lower	Upper
43	100		
72	32.8	21.7	32.5#





#29

Tetrahydrofuran

Concen: 0.841 ug/l

RT: 7.847 min Scan# 1065

Delta R.T. 0.012 min

Lab File: VN086438.D

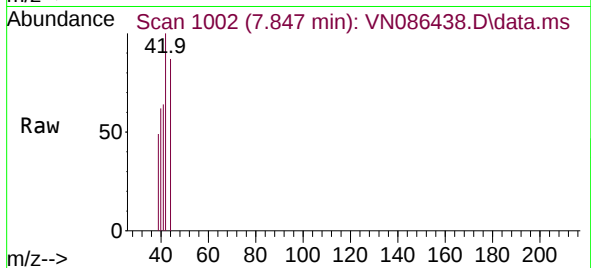
Acq: 30 Apr 2025 15:52

Instrument :

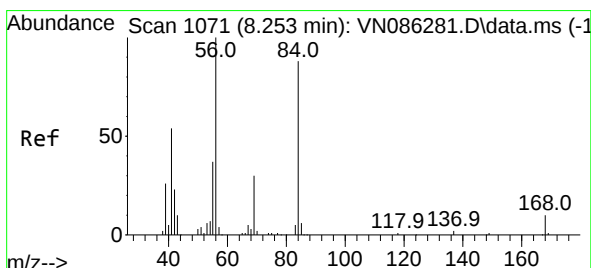
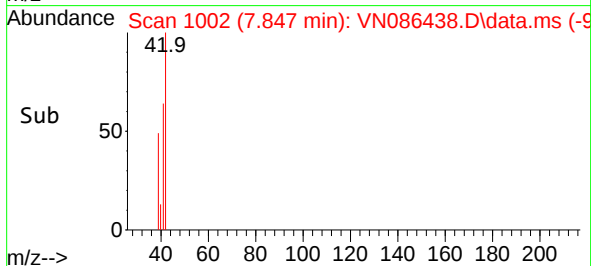
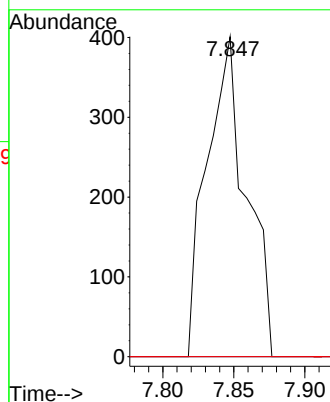
MSVOA_N

ClientSampleId :

PB167775ZHE#08



Tgt Ion:	42	Resp:	774
Ion Ratio	100	Lower	Upper
42	100		
72	0.0	36.2	54.4#
71	0.0	34.0	51.0#



#31

Cyclohexane

Concen: 0.915 ug/l

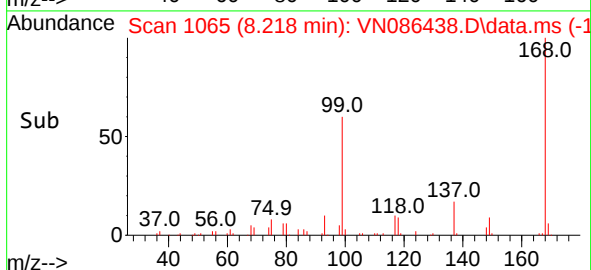
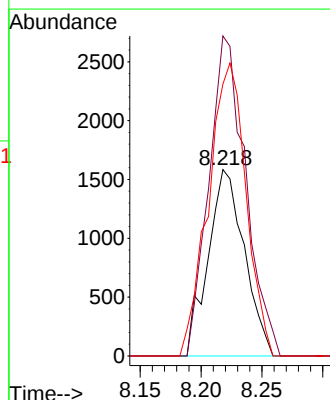
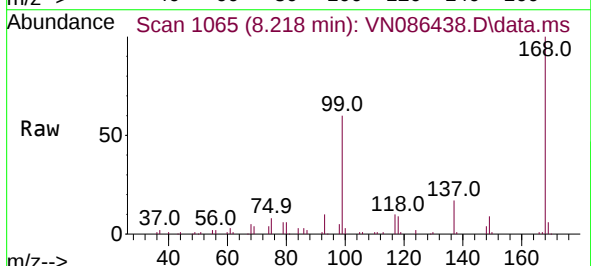
RT: 8.218 min Scan# 1065

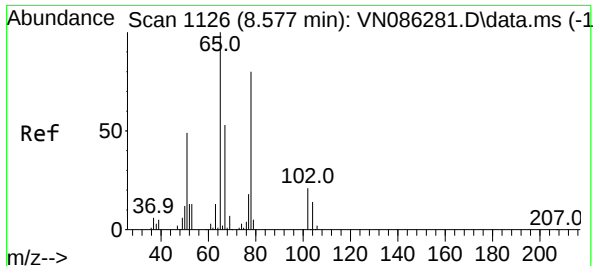
Delta R.T. -0.035 min

Lab File: VN086438.D

Acq: 30 Apr 2025 15:52

Tgt Ion:	56	Resp:	3276
Ion Ratio	100	Lower	Upper
56	100		
69	171.7	24.2	36.2#
84	145.9	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 49.125 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086438.D

Acq: 30 Apr 2025 15:52

Instrument :

MSVOA_N

ClientSampleId :

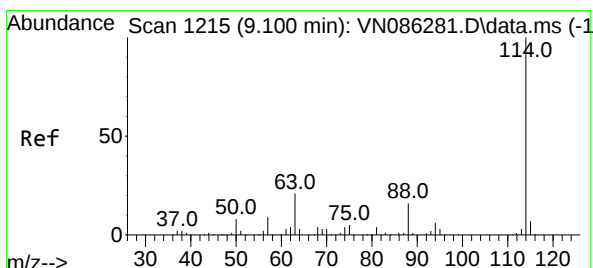
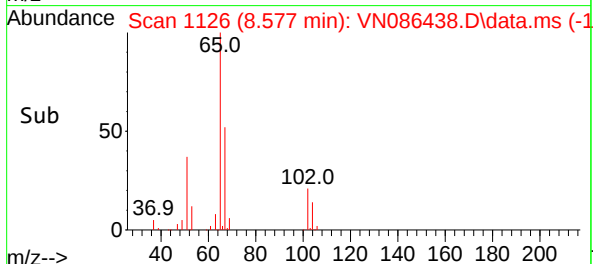
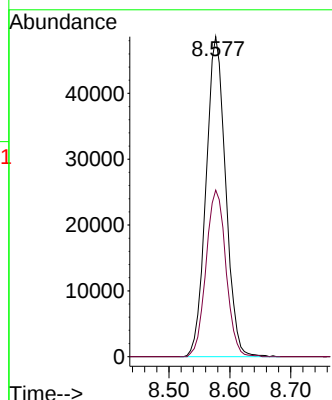
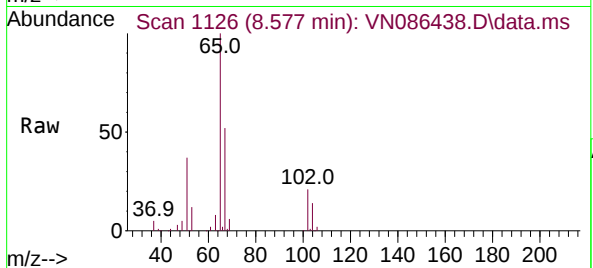
PB167775ZHE#08

Tgt Ion: 65 Resp: 108560

Ion Ratio Lower Upper

65 100

67 52.9 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: VN086438.D

Acq: 30 Apr 2025 15:52

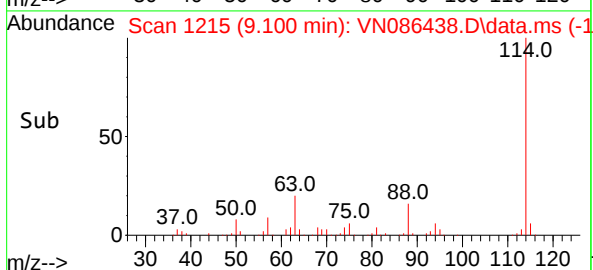
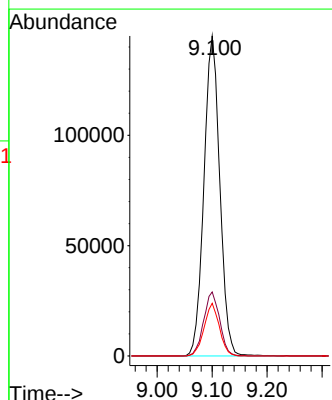
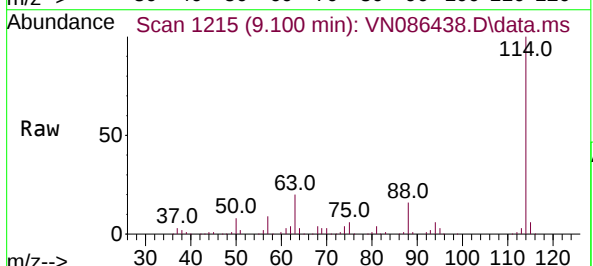
Tgt Ion: 114 Resp: 290562

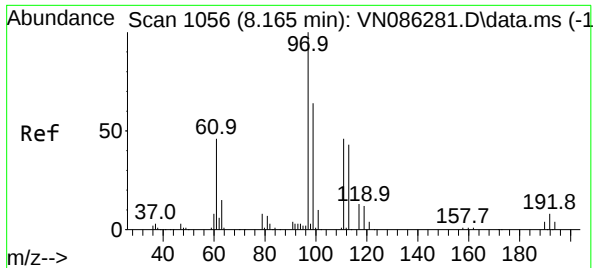
Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.6

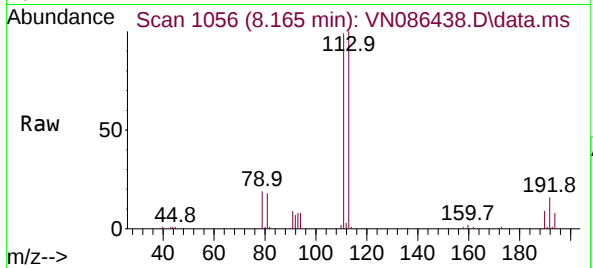
88 16.5 0.0 31.8



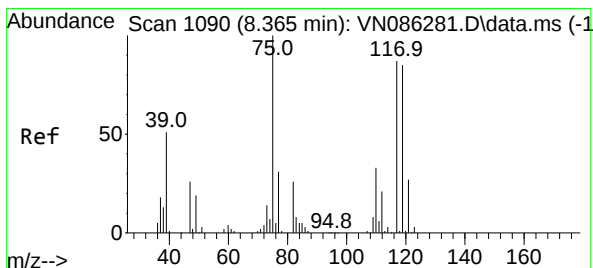
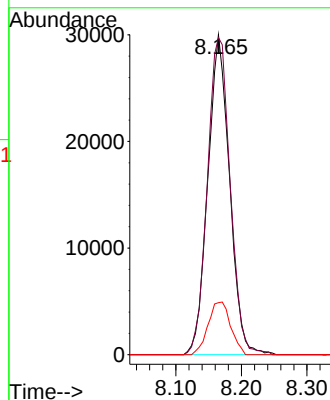
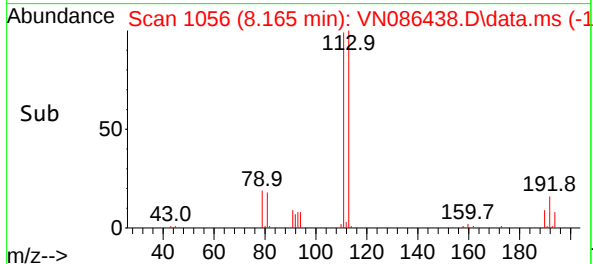


#35
Dibromofluoromethane
Concen: 51.193 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086438.D
Acq: 30 Apr 2025 15:52

Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#08

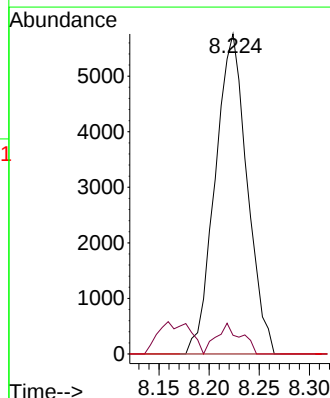
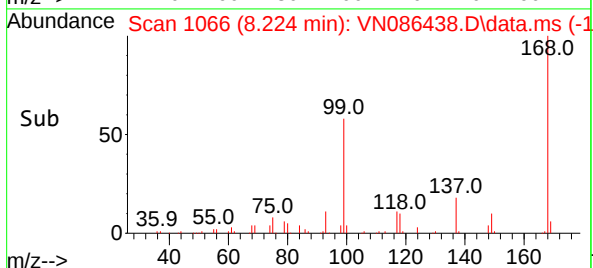
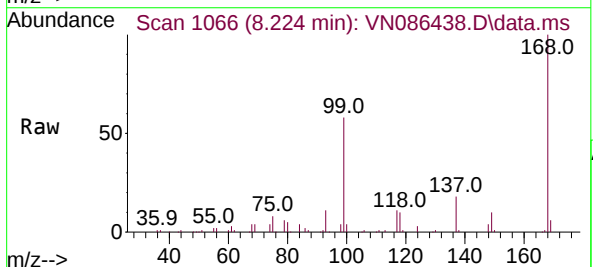


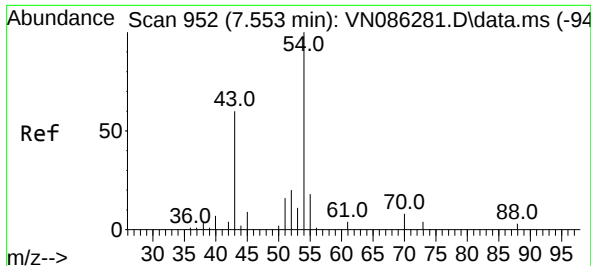
Tgt Ion:113 Resp: 69036
Ion Ratio Lower Upper
113 100
111 104.2 83.4 125.0
192 17.1 13.7 20.5



#36
1,1-Dichloropropene
Concen: 4.737 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN086438.D
Acq: 30 Apr 2025 15:52

Tgt Ion: 75 Resp: 12759
Ion Ratio Lower Upper
75 100
110 7.4 16.8 50.4#
77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 12.754 ug/l

RT: 7.483 min Scan# 94

Delta R.T. -0.071 min

Lab File: VN086438.D

Acq: 30 Apr 2025 15:52

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#08

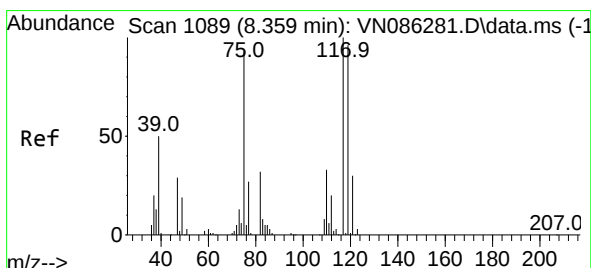
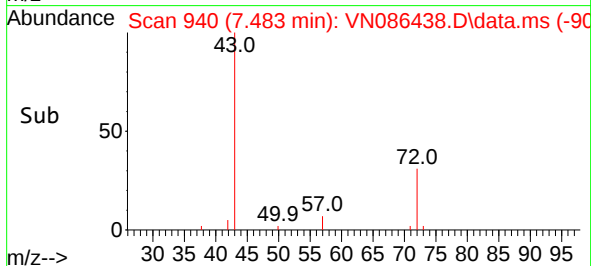
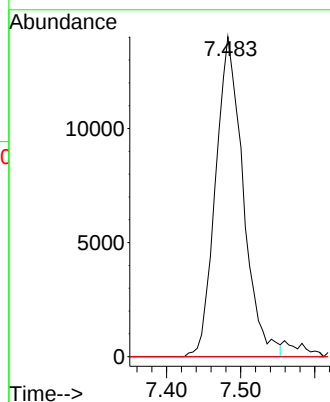
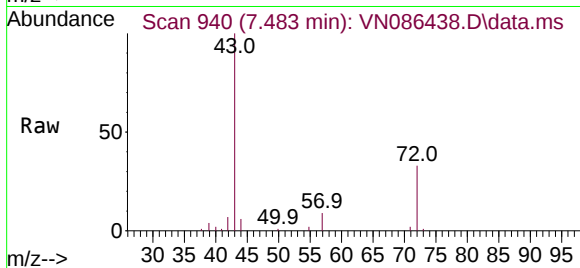
Tgt Ion: 43 Resp: 36167

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 9.2 13.8#



#38

Carbon Tetrachloride

Concen: 6.239 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086438.D

Acq: 30 Apr 2025 15:52

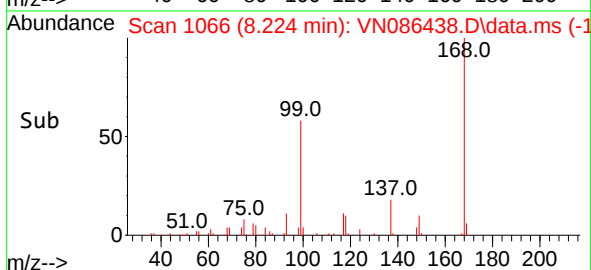
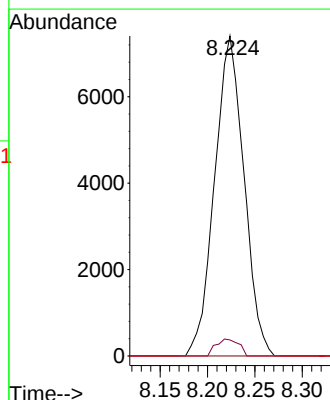
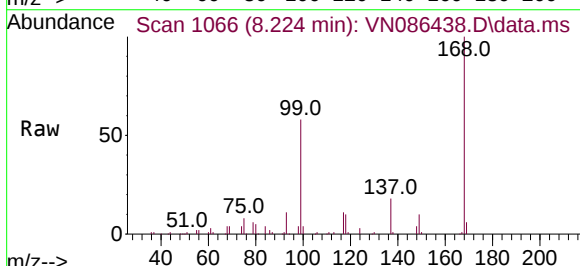
Tgt Ion: 117 Resp: 16003

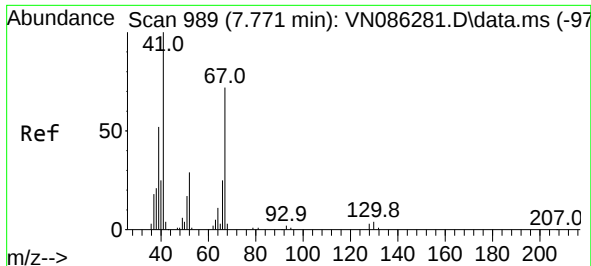
Ion Ratio Lower Upper

117 100

119 5.0 76.8 115.2#

121 0.0 23.8 35.8#

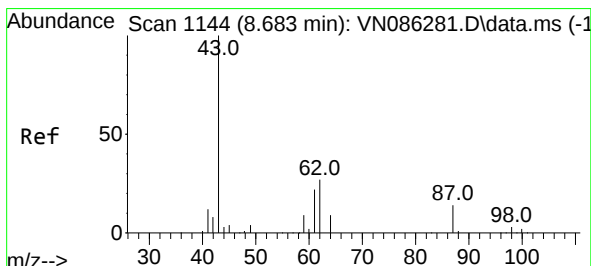
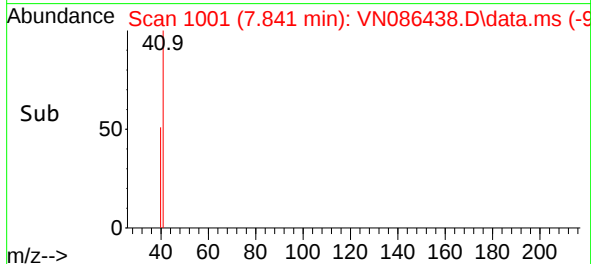
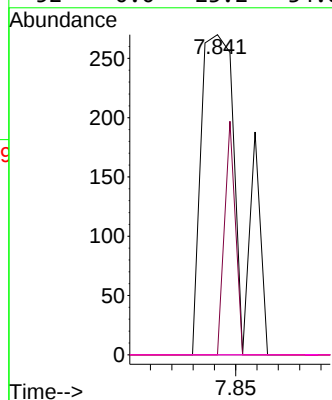
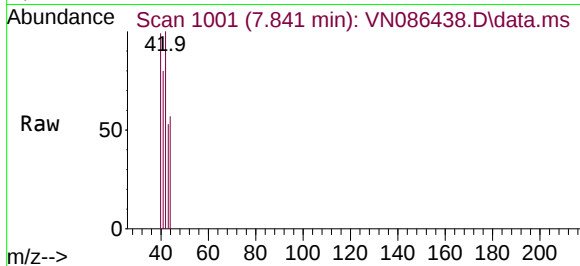




#41
Methacrylonitrile
Concen: 0.209 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.071 min
Lab File: VN086438.D
Acq: 30 Apr 2025 15:52

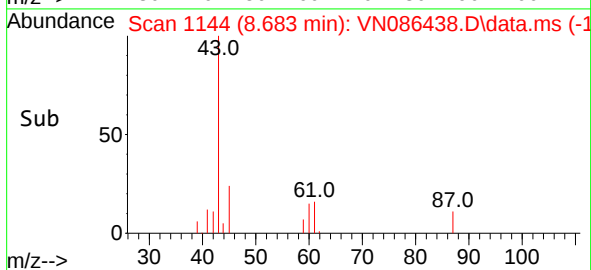
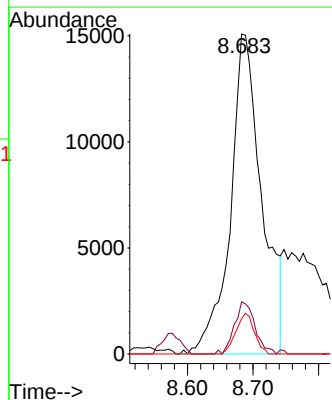
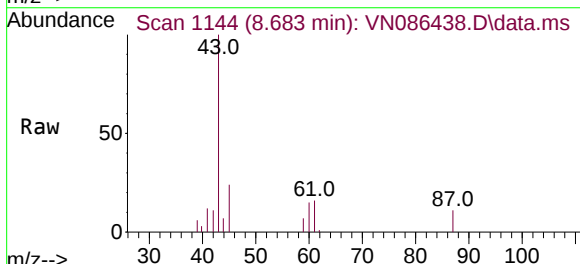
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#08

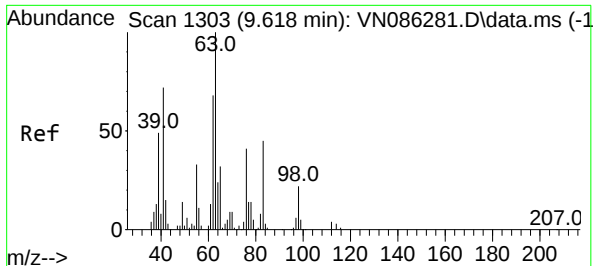
Tgt Ion: 41	Resp: 344
Ion Ratio	Lower Upper
41 100	
39 20.1	43.0 64.4#
67 0.0	58.8 88.2#
52 0.0	23.2 34.8#



#43
Isopropyl Acetate
Concen: 8.146 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086438.D
Acq: 30 Apr 2025 15:52

Tgt Ion: 43	Resp:	50185	
Ion	Ratio	Lower	Upper
43	100		
61	10.7	20.5	30.7#
87	7.4	10.5	15.7#





#45

1,2-Dichloropropane

Concen: 0.399 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN086438.D

Acq: 30 Apr 2025 15:52

Instrument :

MSVOA_N

ClientSampleId :

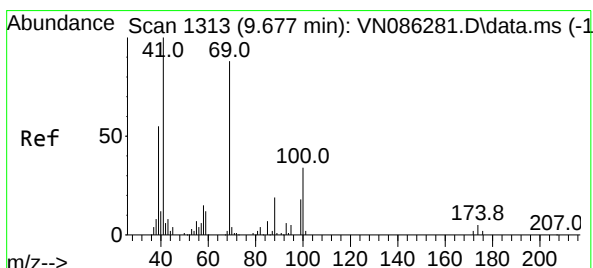
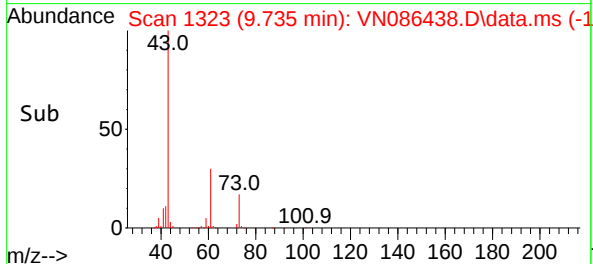
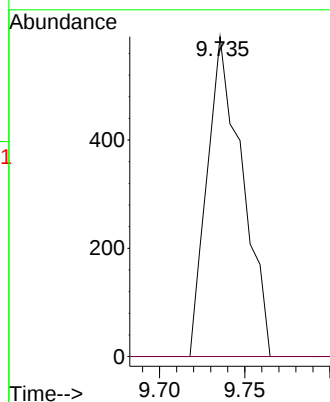
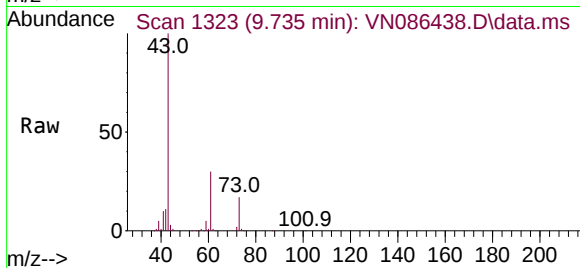
PB167775ZHE#08

Tgt Ion: 63 Resp: 843

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 2.134 ug/l

RT: 9.653 min Scan# 1309

Delta R.T. -0.024 min

Lab File: VN086438.D

Acq: 30 Apr 2025 15:52

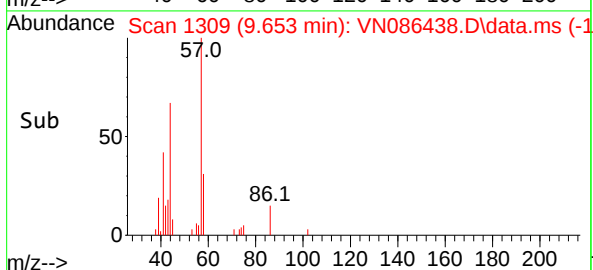
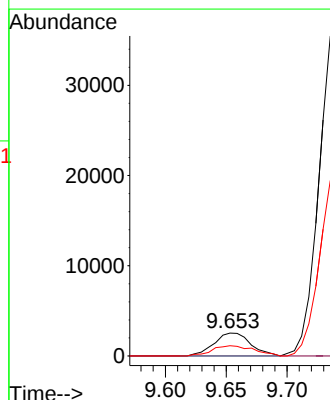
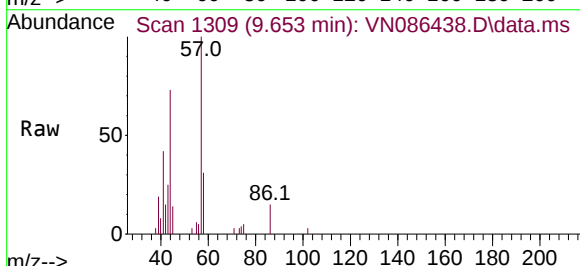
Tgt Ion: 41 Resp: 5315

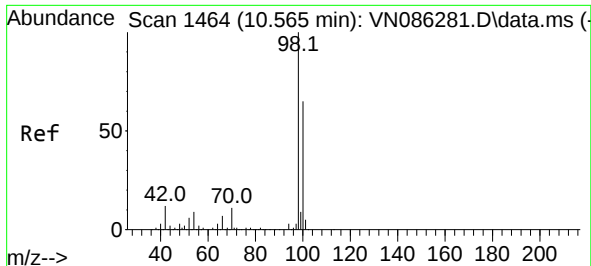
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 50.8 45.2 67.8

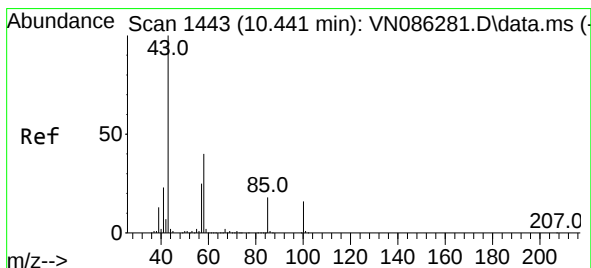
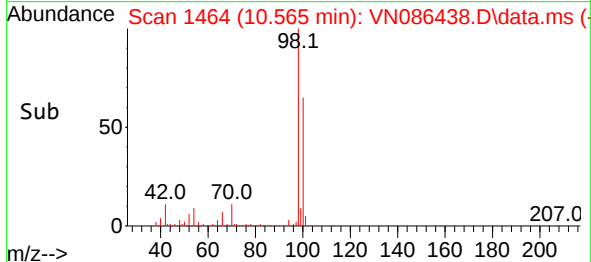
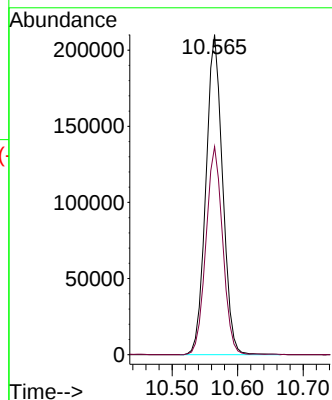
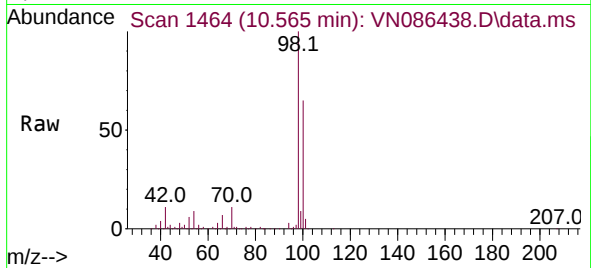




#50
Toluene-d8
Concen: 51.638 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086438.D
Acq: 30 Apr 2025 15:52

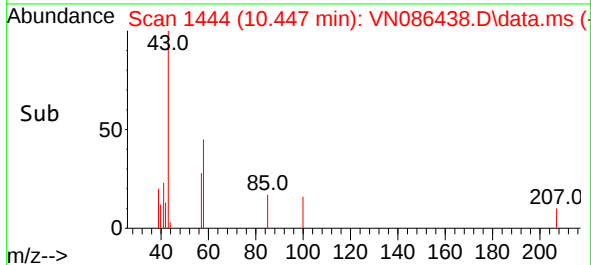
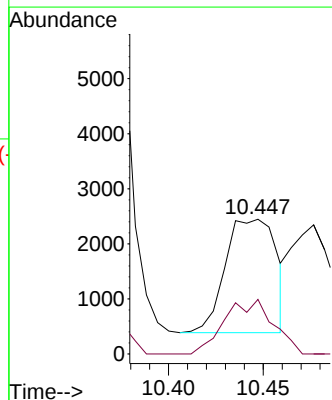
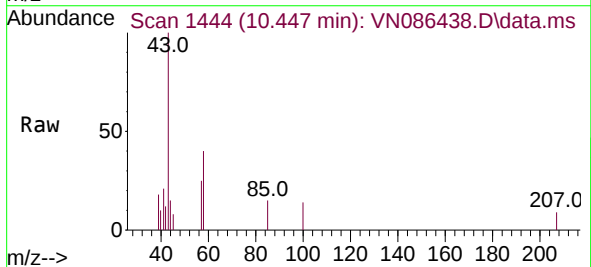
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#08

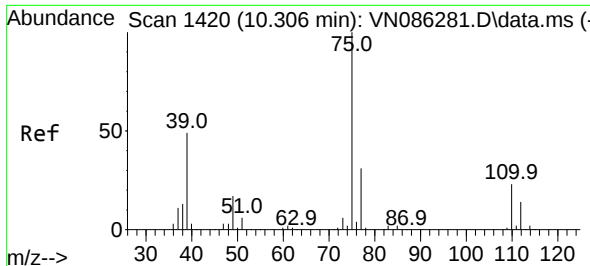
Tgt Ion: 98 Resp: 372168
Ion Ratio Lower Upper
98 100
100 65.2 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.331 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086438.D
Acq: 30 Apr 2025 15:52

Tgt Ion: 43 Resp: 3864
Ion Ratio Lower Upper
43 100
58 45.9 32.2 48.4

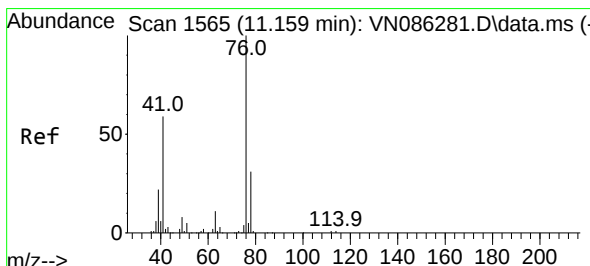
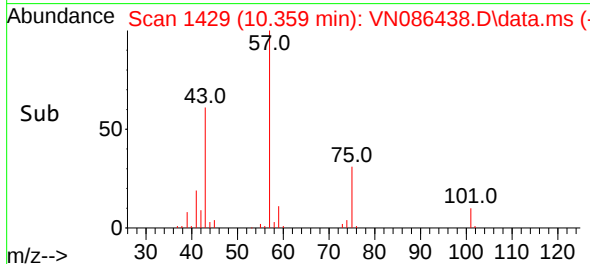
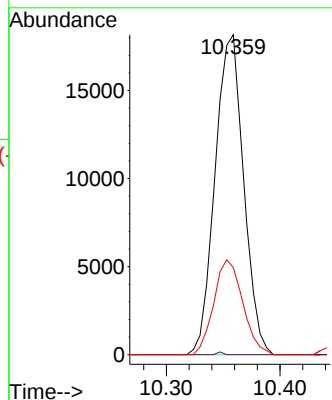
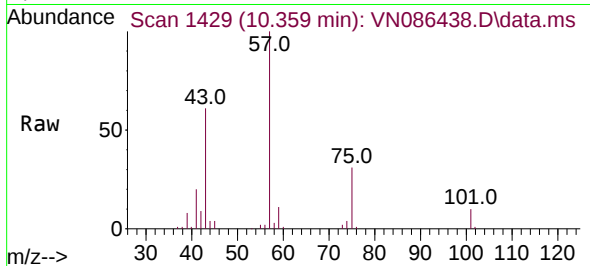




#54
 cis-1,3-Dichloropropene
 Concen: 8.905 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.053 min
 Lab File: VN086438.D
 Acq: 30 Apr 2025 15:52

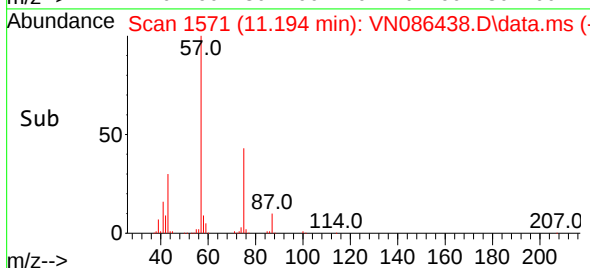
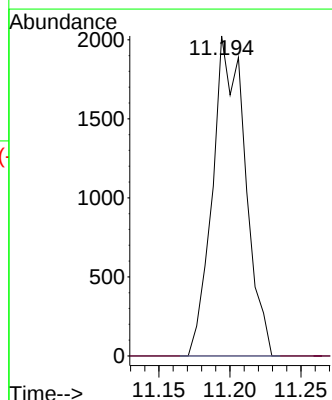
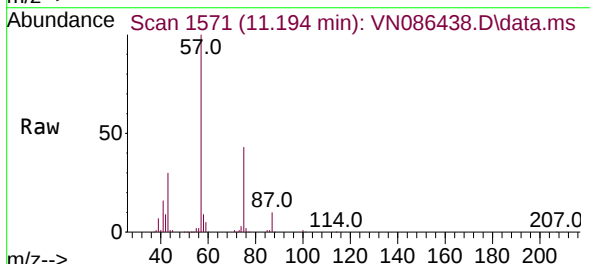
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#08

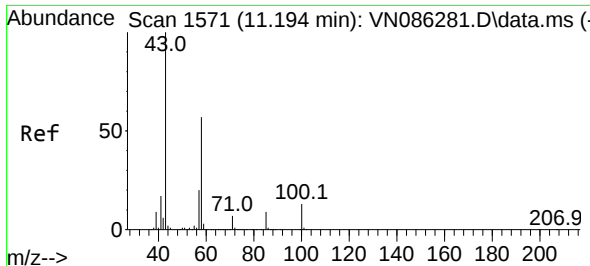
Tgt Ion: 75 Resp: 31740
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 27.3 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.939 ug/l
 RT: 11.194 min Scan# 1571
 Delta R.T. 0.035 min
 Lab File: VN086438.D
 Acq: 30 Apr 2025 15:52

Tgt Ion: 76 Resp: 3227
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

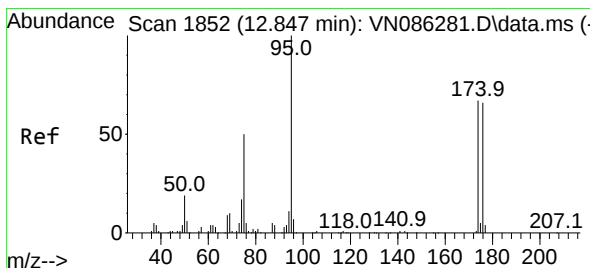
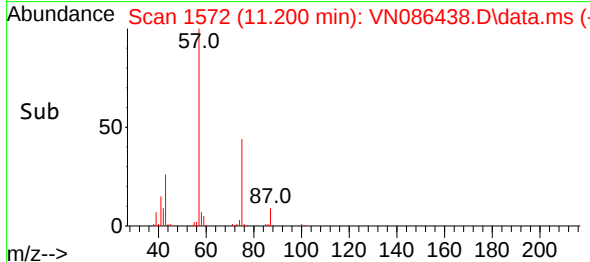
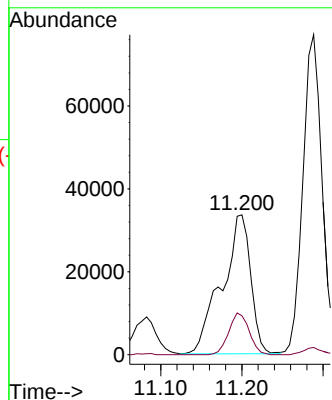
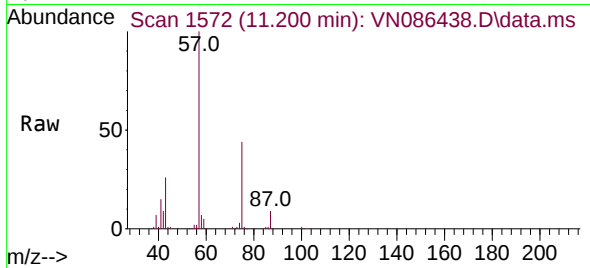




#59
2-Hexanone
Concen: 38.348 ug/l
RT: 11.200 min Scan# 1157
Delta R.T. 0.006 min
Lab File: VN086438.D
Acq: 30 Apr 2025 15:52

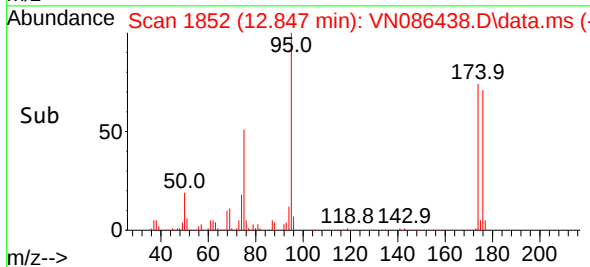
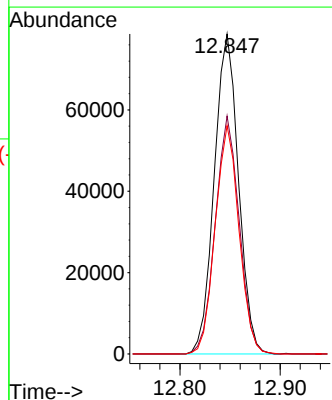
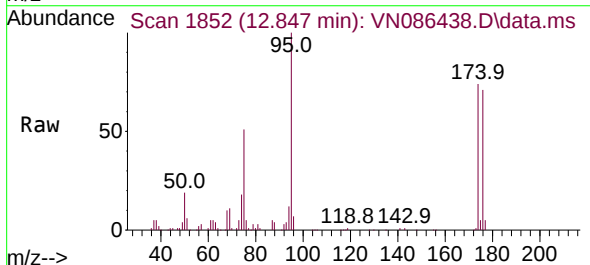
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#08

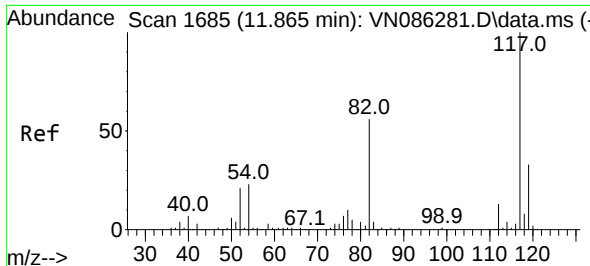
Tgt Ion: 43 Resp: 82595
Ion Ratio Lower Upper
43 100
58 21.3 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 50.118 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086438.D
Acq: 30 Apr 2025 15:52

Tgt Ion: 95 Resp: 131749
Ion Ratio Lower Upper
95 100
174 73.3 0.0 133.4
176 70.1 0.0 129.2

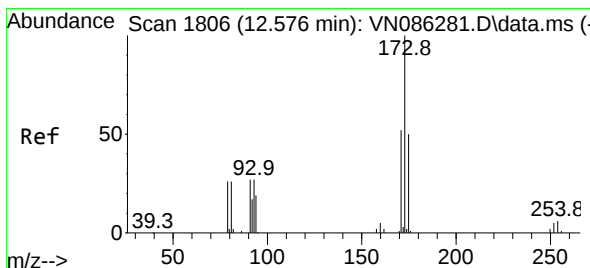
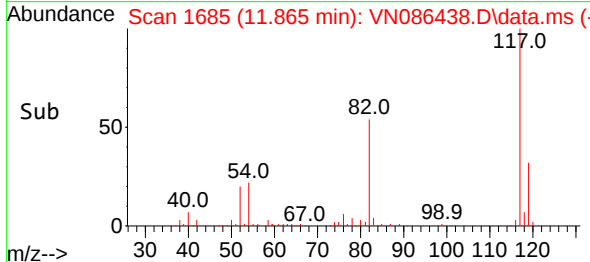
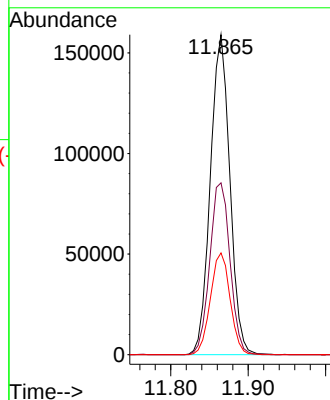
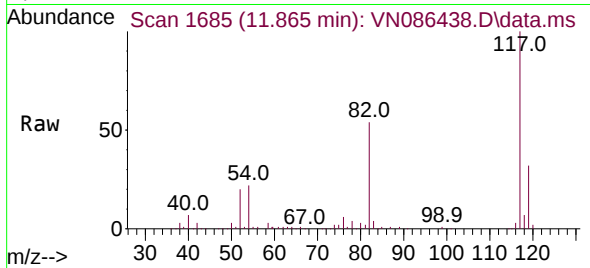




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN086438.D
Acq: 30 Apr 2025 15:52

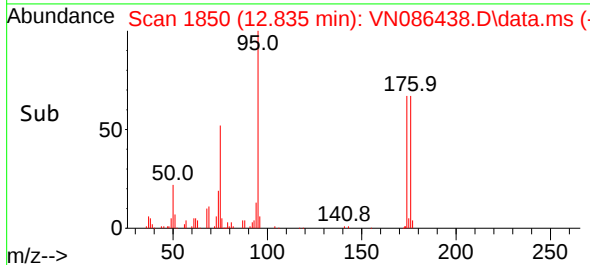
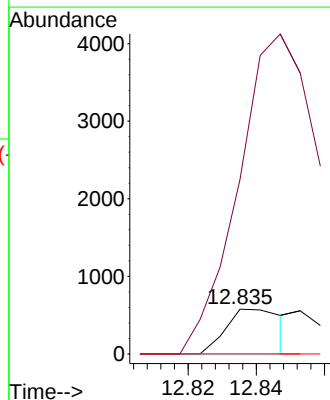
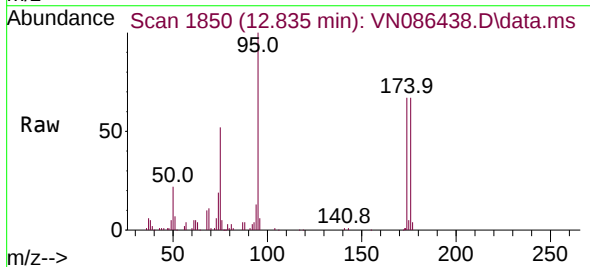
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#08

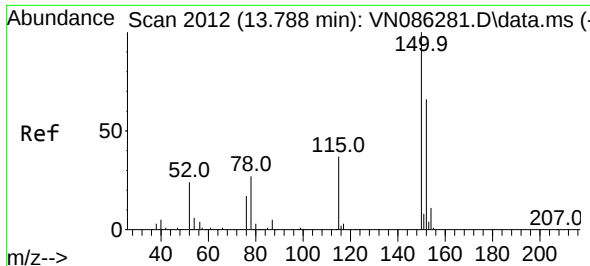
Tgt Ion:117 Resp: 278585
Ion Ratio Lower Upper
117 100
82 53.7 44.7 67.1
119 31.8 26.4 39.6



#71
Bromoform
Concen: 0.427 ug/l
RT: 12.835 min Scan# 1850
Delta R.T. 0.259 min
Lab File: VN086438.D
Acq: 30 Apr 2025 15:52

Tgt Ion:173 Resp: 660
Ion Ratio Lower Upper
173 100
175 824.1 24.6 73.6#
254 0.0 0.0 0.0

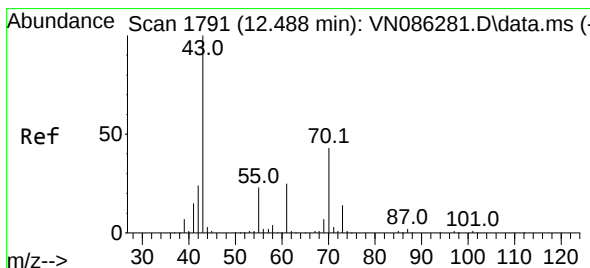
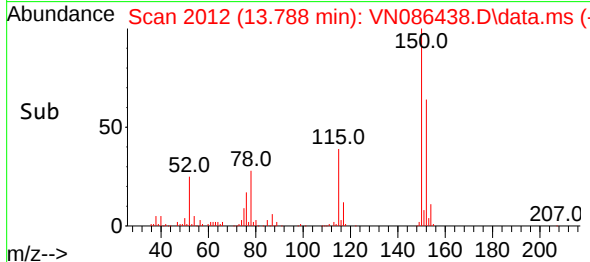
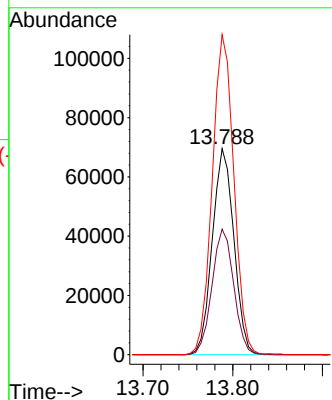
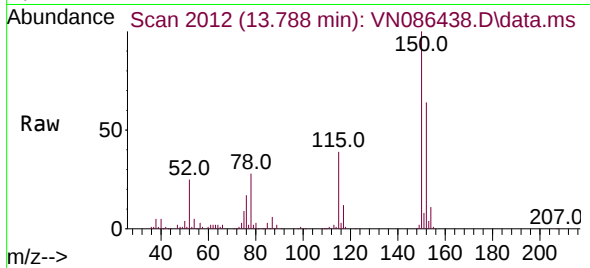




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN086438.D
 Acq: 30 Apr 2025 15:52

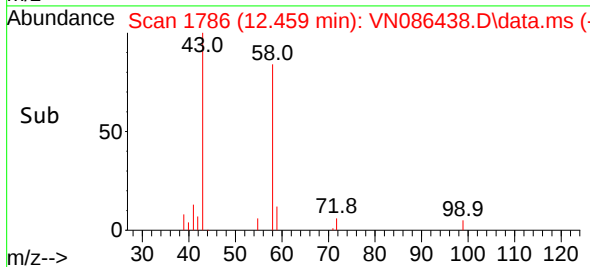
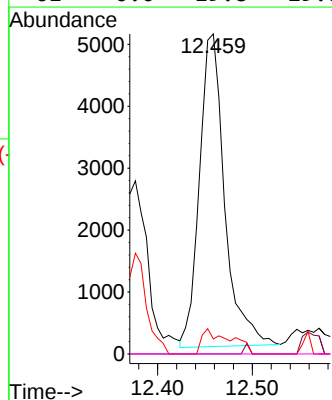
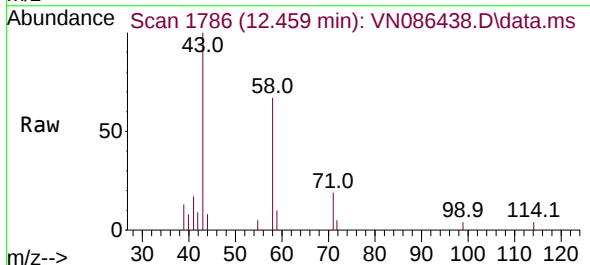
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#08

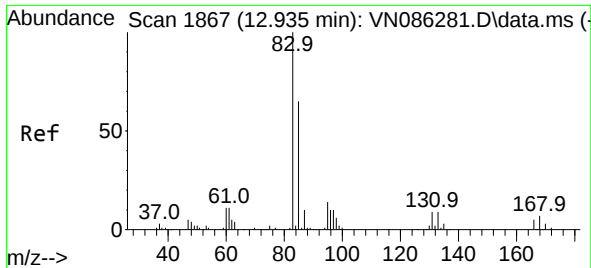
Tgt Ion:152 Resp: 115953
 Ion Ratio Lower Upper
 152 100
 115 61.4 31.9 95.9
 150 155.7 0.0 352.0



#74
 N-ethyl acetate
 Concen: 1.980 ug/l
 RT: 12.459 min Scan# 1786
 Delta R.T. -0.029 min
 Lab File: VN086438.D
 Acq: 30 Apr 2025 15:52

Tgt Ion: 43 Resp: 9350
 Ion Ratio Lower Upper
 43 100
 70 0.0 35.0 52.4#
 55 6.4 19.0 28.4#
 61 0.0 19.8 29.8#

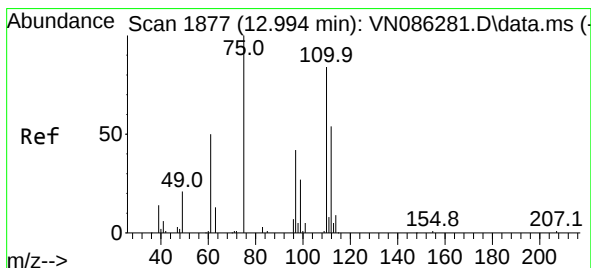
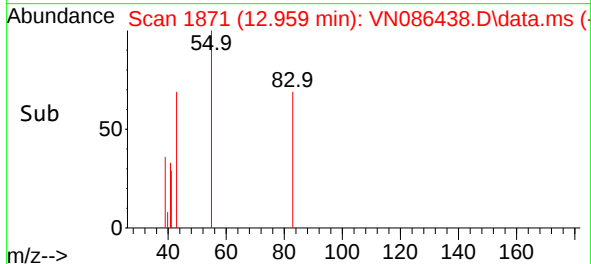
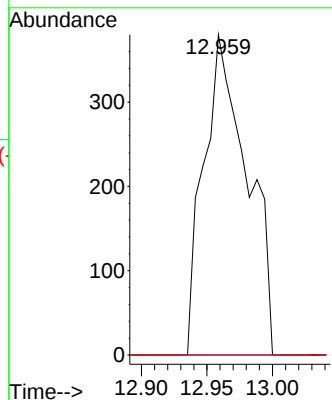
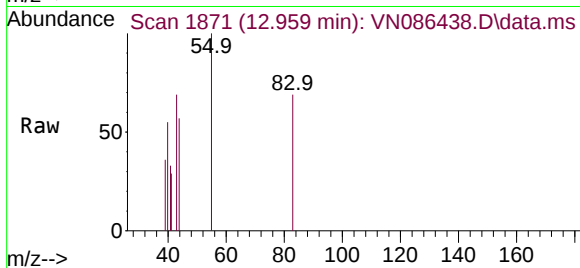




#75
1,1,2,2-Tetrachloroethane
Concen: 0.321 ug/l
RT: 12.959 min Scan# 1852
Delta R.T. 0.024 min
Lab File: VN086438.D
Acq: 30 Apr 2025 15:52

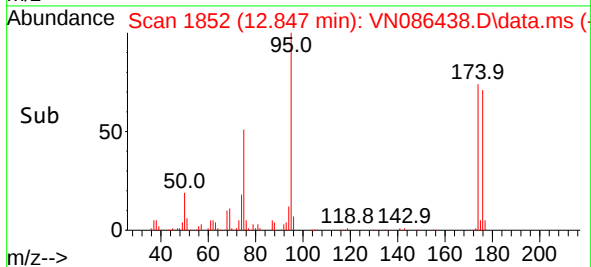
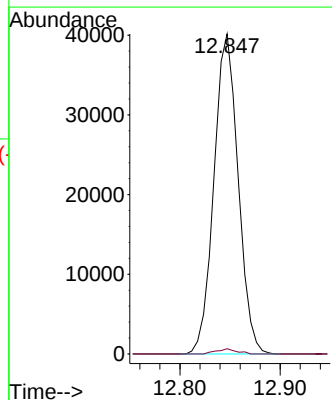
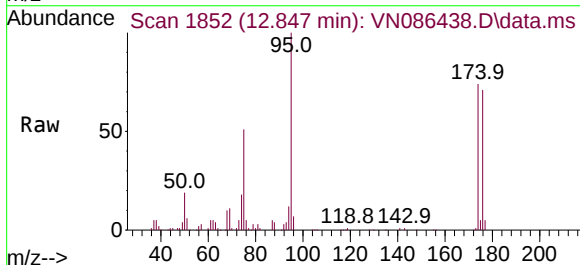
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#08

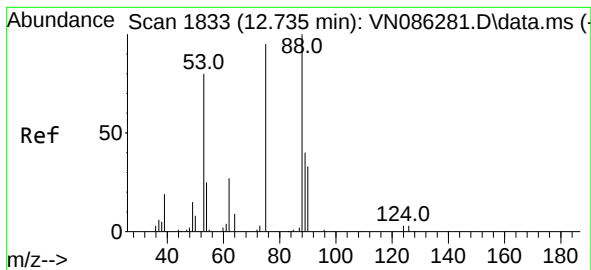
Tgt Ion: 83 Resp: 876
Ion Ratio Lower Upper
83 100
131 0.0 4.7 14.1#
85 0.0 32.7 98.1#



#76
1,2,3-Trichloropropane
Concen: 24.549 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086438.D
Acq: 30 Apr 2025 15:52

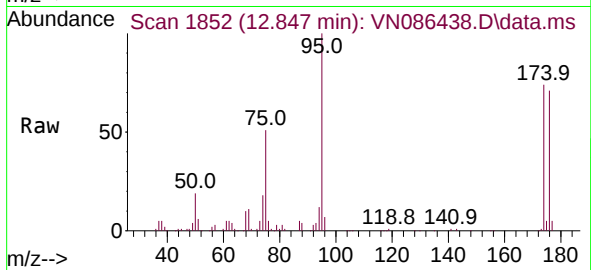
Tgt Ion: 75 Resp: 67175
Ion Ratio Lower Upper
75 100
77 1.3 98.8 296.4#





#81
trans-1,4-Dichloro-2-butene
Concen: 58.959 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086438.D
Acq: 30 Apr 2025 15:52

Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#08



Tgt Ion: 75 Resp: 67175
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

