

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN043025\
 Data File : VN086443.D
 Acq On : 30 Apr 2025 17:53
 Operator : JC\MD
 Sample : PB167775ZHE#13
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#13

Quant Time: May 01 01:36:25 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)

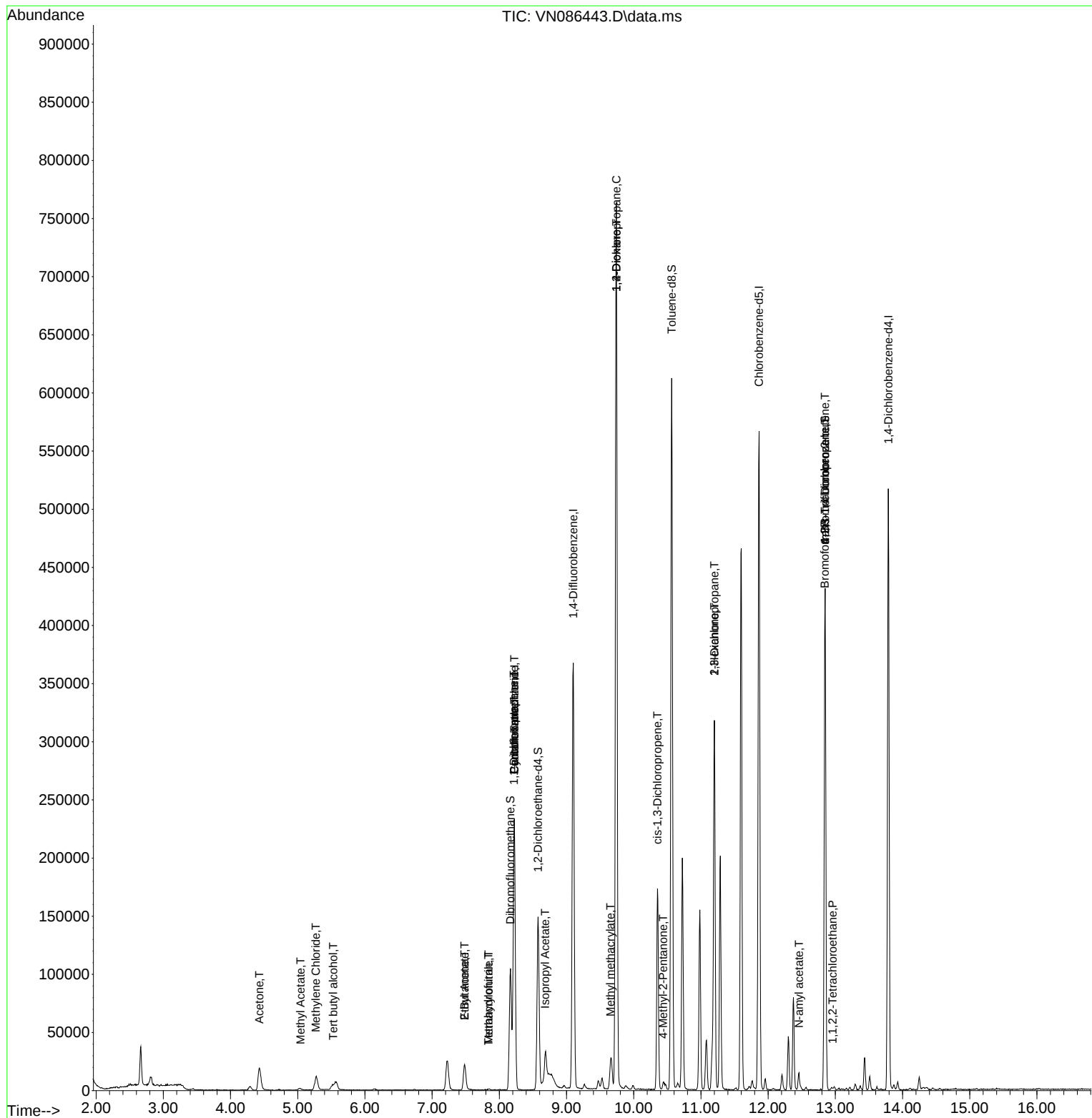
Internal Standards						
1) Pentafluorobenzene	8.224	168	170371	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	327510	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	323107	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	138024	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	119917	48.539	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.080%
35) Dibromofluoromethane	8.165	113	76436	50.286	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.580%
50) Toluene-d8	10.565	98	423742	52.161	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.320%
62) 4-Bromofluorobenzene	12.847	95	155024	52.319	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	104.640%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.530	59	7975	17.692	ug/l #	93
16) Acetone	4.430	43	37694	39.320	ug/l	98
18) Methyl Acetate	5.042	43	3565	1.202	ug/l #	76
20) Methylene Chloride	5.271	84	9182	4.020	ug/l	92
25) 2-Butanone	7.483	43	37386	24.312	ug/l	97
29) Tetrahydrofuran	7.836	42	773	0.752	ug/l #	44
31) Cyclohexane	8.224	56	4080	1.019	ug/l #	11
36) 1,1-Dichloropropene	8.218	75	14290	4.707	ug/l #	49
37) Ethyl Acetate	7.483	43	37386	11.697	ug/l #	68
38) Carbon Tetrachloride	8.224	117	17880	6.184	ug/l #	15
41) Methacrylonitrile	7.842	41	467	0.252	ug/l #	23
43) Isopropyl Acetate	8.683	43	52198	7.369	ug/l #	75
45) 1,2-Dichloropropane	9.741	63	810	0.340	ug/l #	43
48) Methyl methacrylate	9.653	41	5197	1.852	ug/l #	43
49) 1,4-Dioxane	9.741	88	61	1.278	ug/l #	1
51) 4-Methyl-2-Pentanone	10.435	43	4725	1.444	ug/l	91
54) cis-1,3-Dichloropropene	10.353	75	32781	8.160	ug/l #	61
57) 1,3-Dichloropropane	11.200	76	3149	0.813	ug/l #	43
59) 2-Hexanone	11.200	43	85994	35.422	ug/l #	53
71) Bromoform	12.841	173	784	0.438	ug/l #	1
74) N-amyl acetate	12.459	43	10682	1.900	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	12.959	83	1071	0.330	ug/l #	25
76) 1,2,3-Trichloropropane	12.847	75	80306	24.655	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	80306	59.213	ug/l #	10

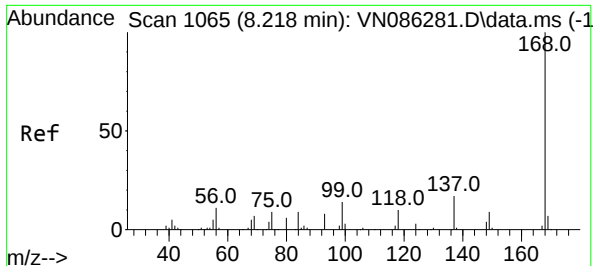
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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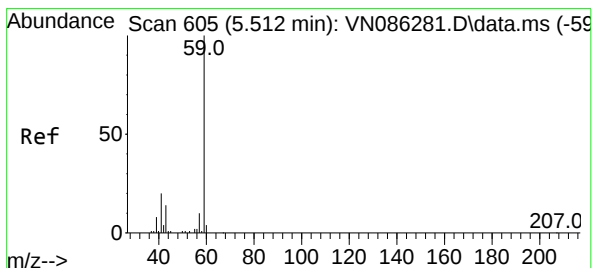
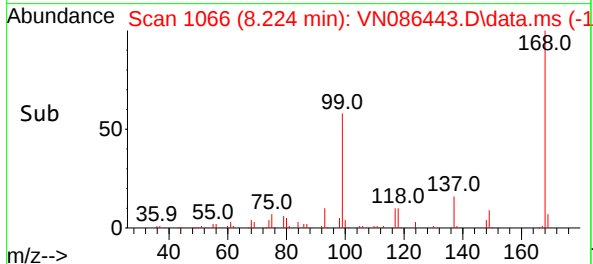
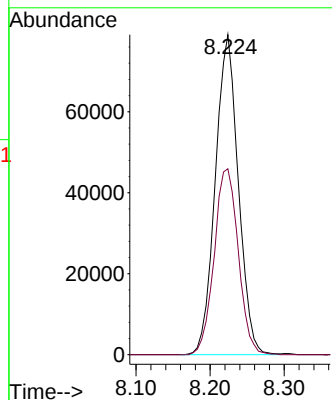
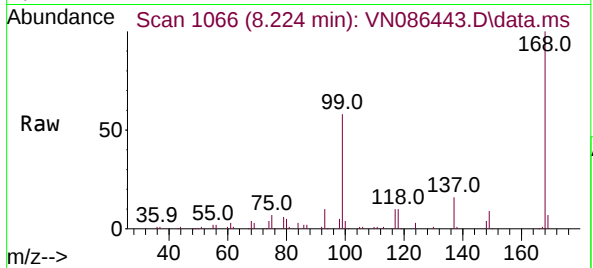




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

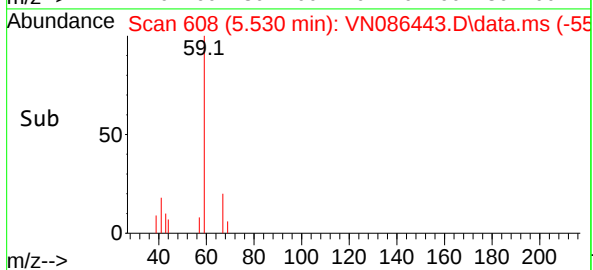
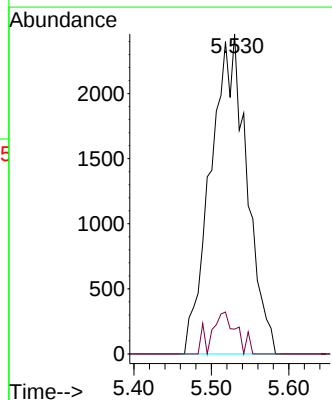
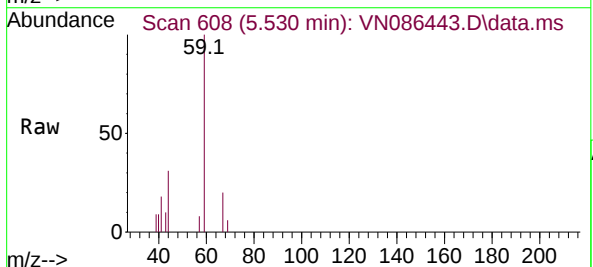
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#13

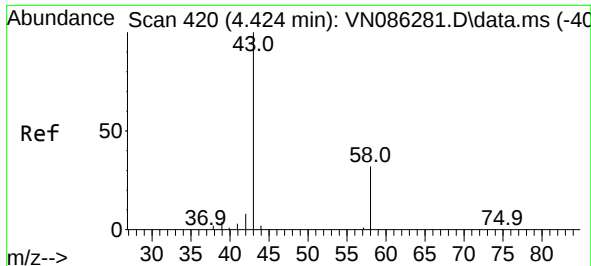
Tgt Ion:168 Resp: 170371
Ion Ratio Lower Upper
168 100
99 58.1 52.5 78.7



#11
Tert butyl alcohol
Concen: 17.692 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.018 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

Tgt Ion: 59 Resp: 7975
Ion Ratio Lower Upper
59 100
57 8.0 8.3 12.5#

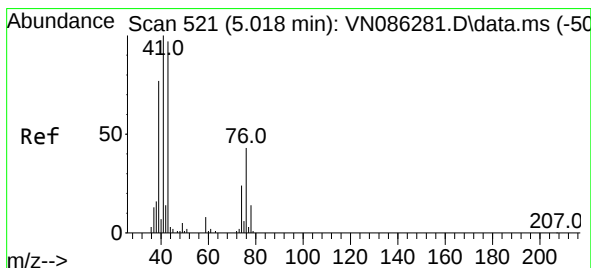
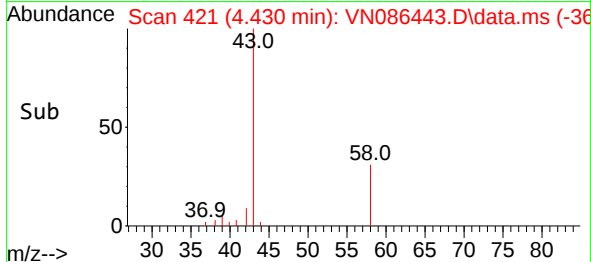
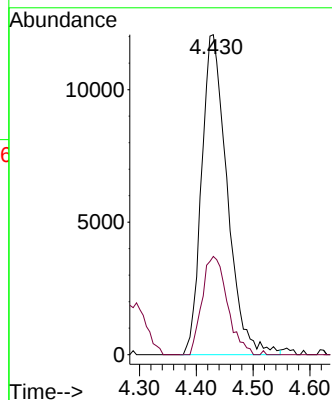
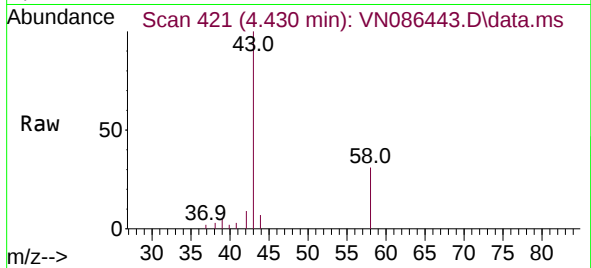




#16
Acetone
Concen: 39.320 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

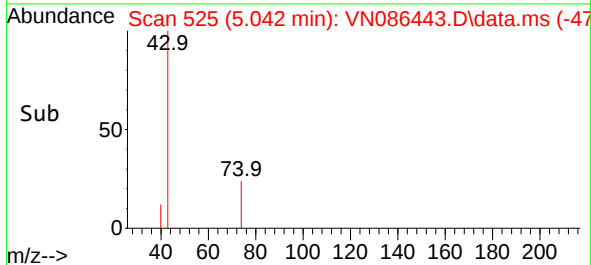
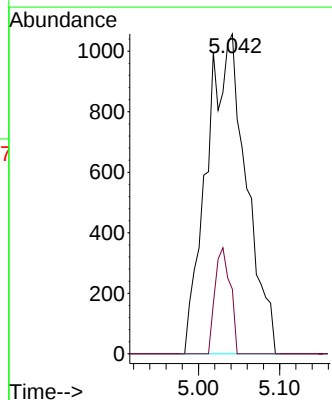
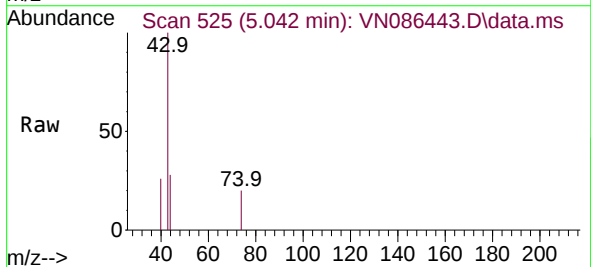
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#13

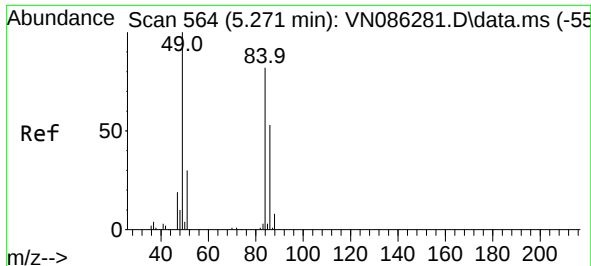
Tgt Ion: 43 Resp: 37694
Ion Ratio Lower Upper
43 100
58 30.7 25.3 37.9



#18
Methyl Acetate
Concen: 1.202 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.024 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

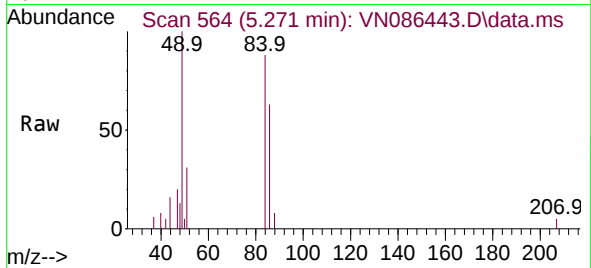
Tgt Ion: 43 Resp: 3565
Ion Ratio Lower Upper
43 100
74 12.8 19.8 29.6#



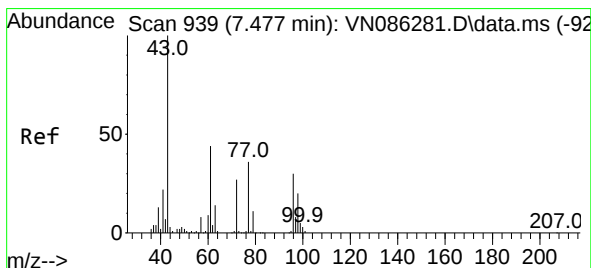
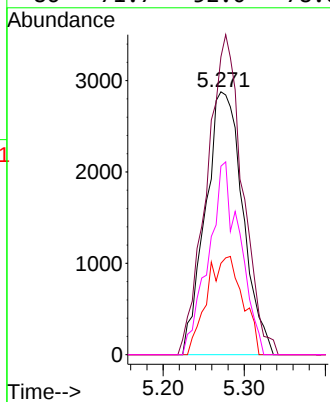
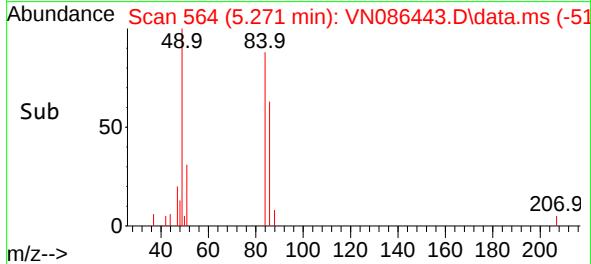


#20
Methylene Chloride
Concen: 4.020 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

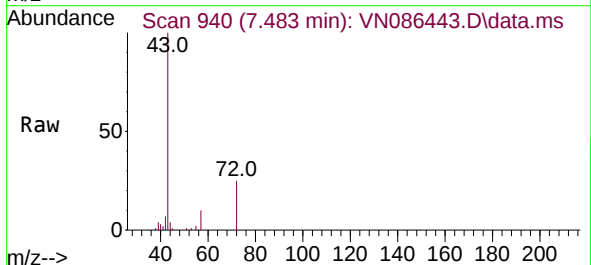
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#13



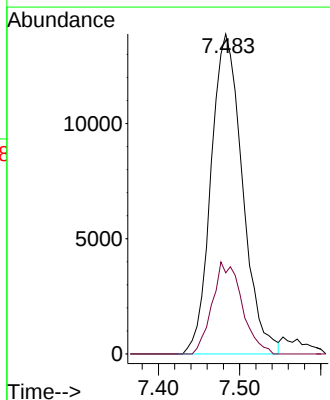
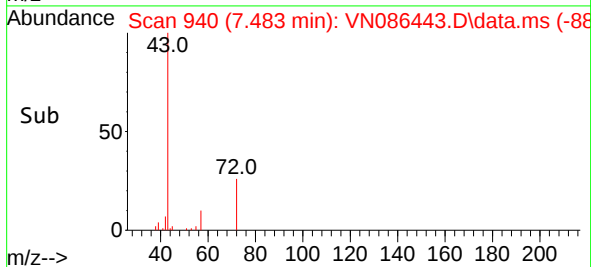
Tgt Ion:	84	Resp:	9182
Ion	Ratio	Lower	Upper
84	100		
49	113.3	98.2	147.2
51	34.8	29.8	44.6
86	71.7	52.0	78.0

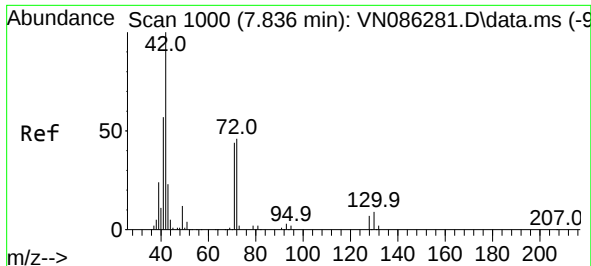


#25
2-Butanone
Concen: 24.312 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53



Tgt Ion:	43	Resp:	37386
Ion	Ratio	Lower	Upper
43	100		
72	25.3	21.7	32.5

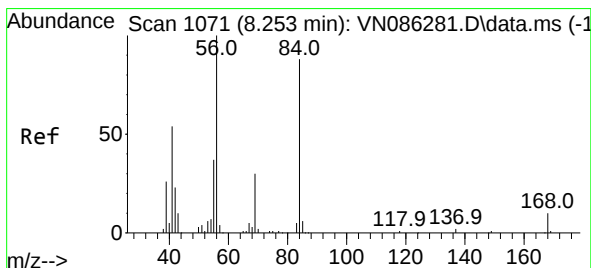
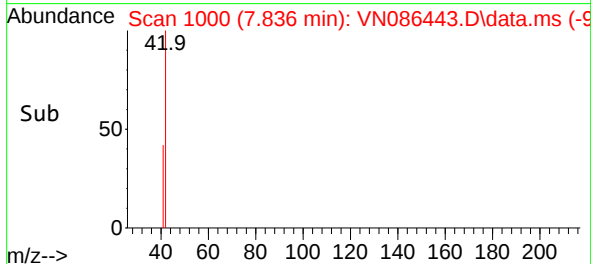
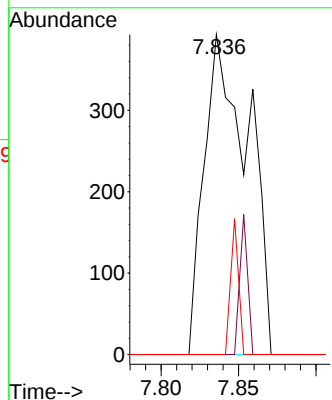
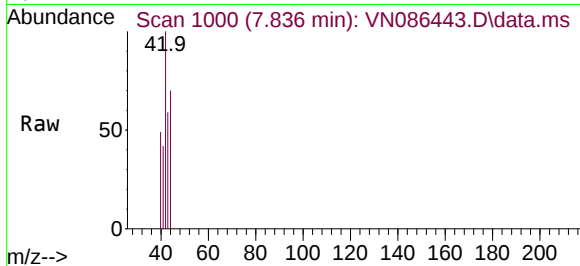




#29
Tetrahydrofuran
Concen: 0.752 ug/l
RT: 7.836 min Scan# 1066
Delta R.T. 0.000 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

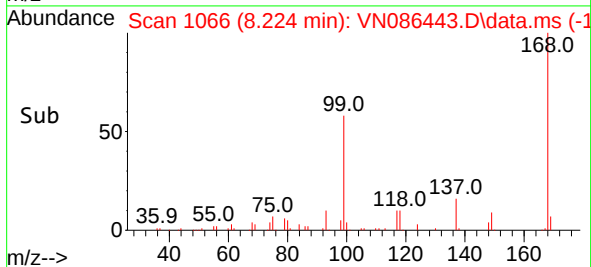
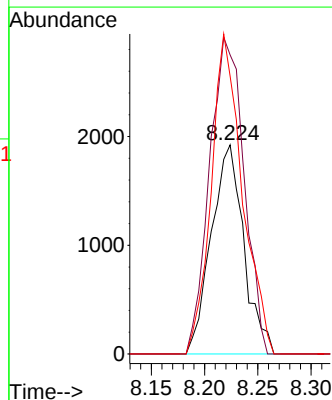
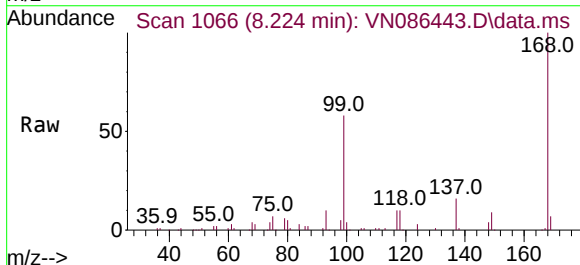
Instrument :
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ClientSampleId :
PB167775ZHE#13

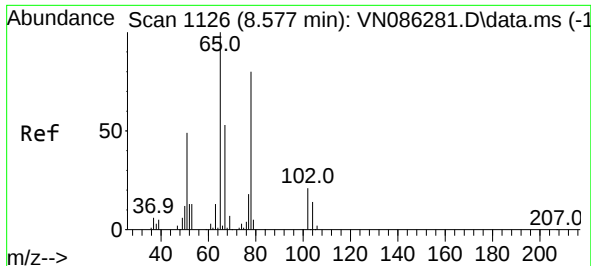
Tgt Ion: 42 Resp: 773
Ion Ratio Lower Upper
42 100
72 7.9 36.2 54.4#
71 7.6 34.0 51.0#



#31
Cyclohexane
Concen: 1.019 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

Tgt Ion: 56 Resp: 4080
Ion Ratio Lower Upper
56 100
69 143.0 24.2 36.2#
84 132.7 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 48.539 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086443.D

Acq: 30 Apr 2025 17:53

Instrument :

MSVOA_N

ClientSampleId :

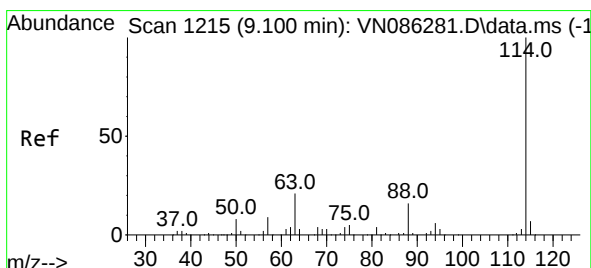
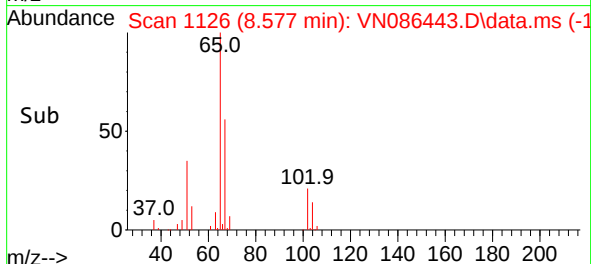
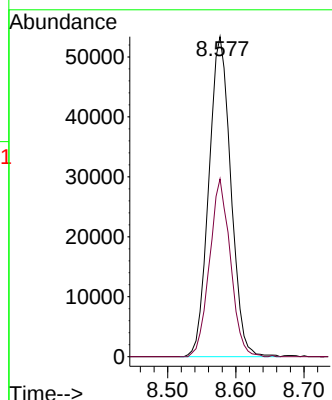
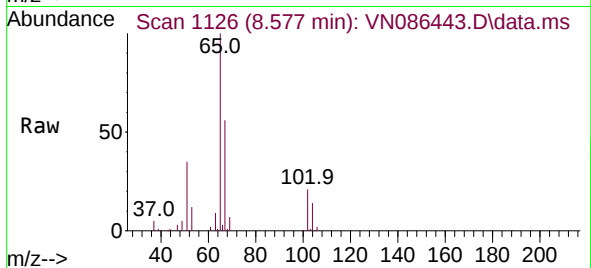
PB167775ZHE#13

Tgt Ion: 65 Resp: 119917

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: VN086443.D

Acq: 30 Apr 2025 17:53

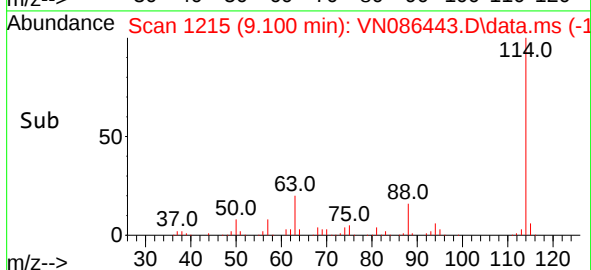
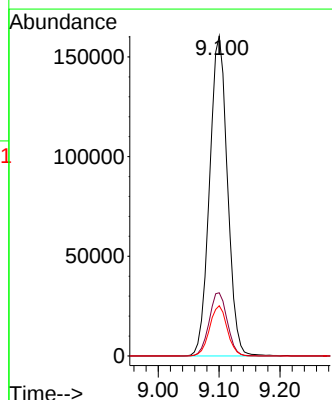
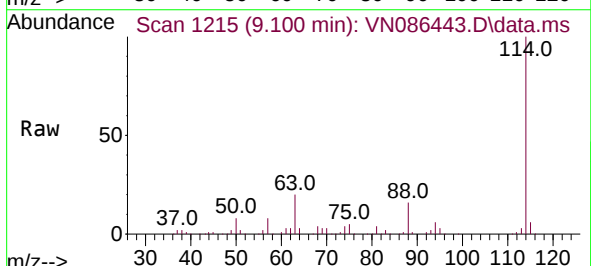
Tgt Ion: 114 Resp: 327510

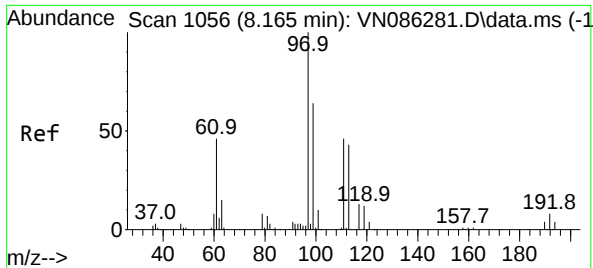
Ion Ratio Lower Upper

114 100

63 19.8 0.0 42.6

88 15.7 0.0 31.8

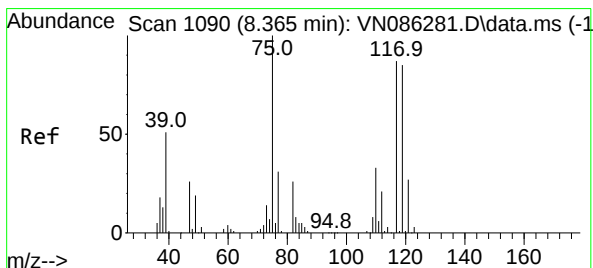
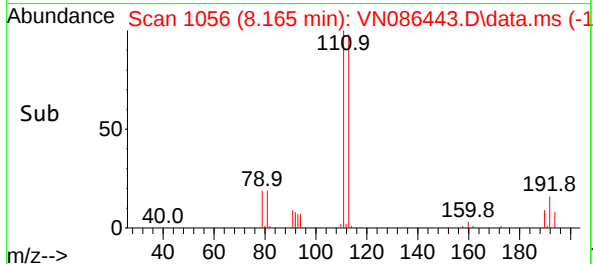
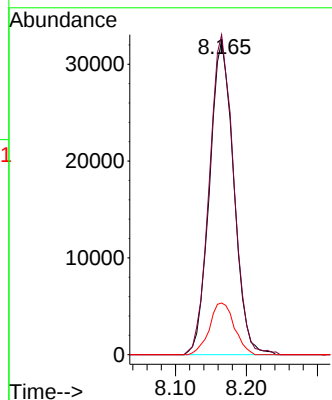
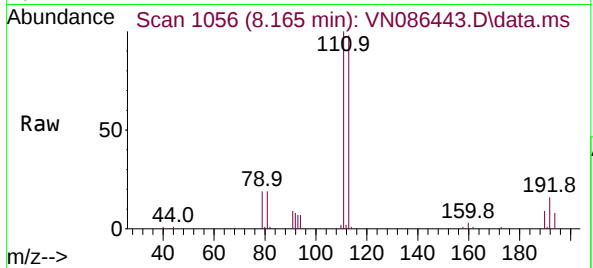




#35
Dibromofluoromethane
Concen: 50.286 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

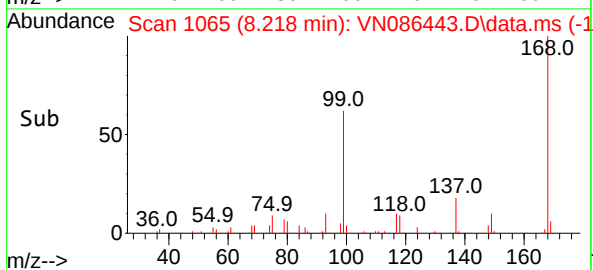
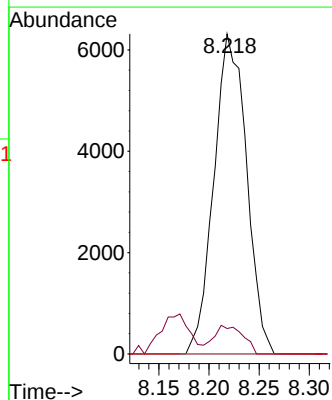
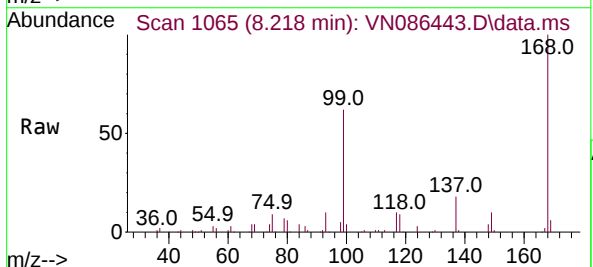
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PB167775ZHE#13

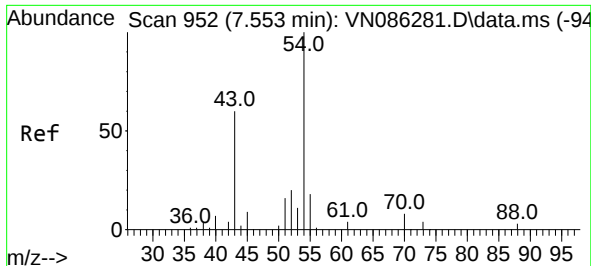
Tgt Ion:113 Resp: 76436
Ion Ratio Lower Upper
113 100
111 102.8 83.4 125.0
192 17.0 13.7 20.5



#36
1,1-Dichloropropene
Concen: 4.707 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

Tgt Ion: 75 Resp: 14290
Ion Ratio Lower Upper
75 100
110 7.9 16.8 50.4#
77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 11.697 ug/l

RT: 7.483 min Scan# 94

Delta R.T. -0.070 min

Lab File: VN086443.D

Acq: 30 Apr 2025 17:53

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#13

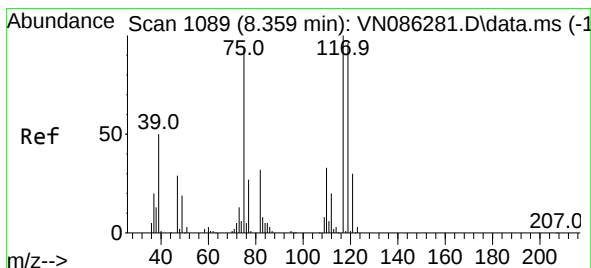
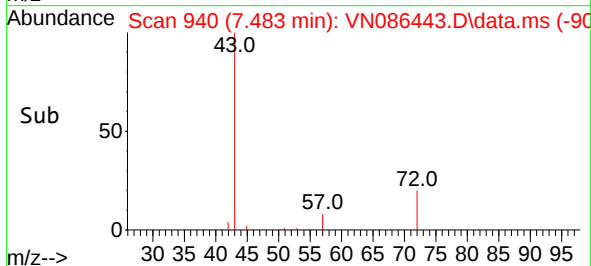
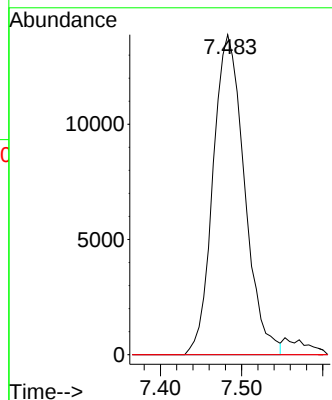
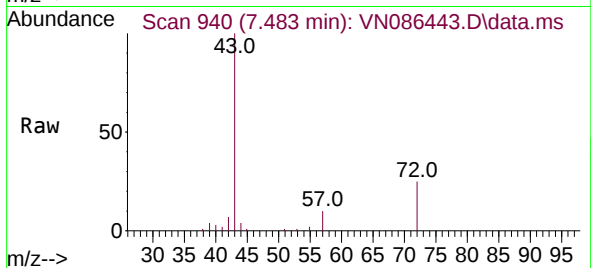
Tgt Ion: 43 Resp: 37386

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 9.2 13.8#



#38

Carbon Tetrachloride

Concen: 6.184 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086443.D

Acq: 30 Apr 2025 17:53

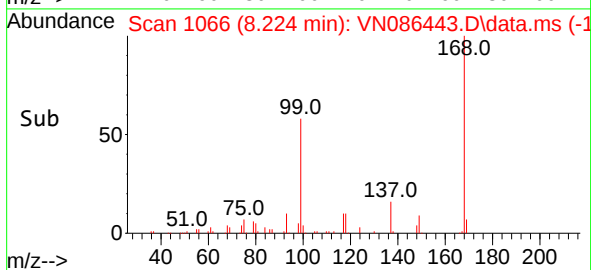
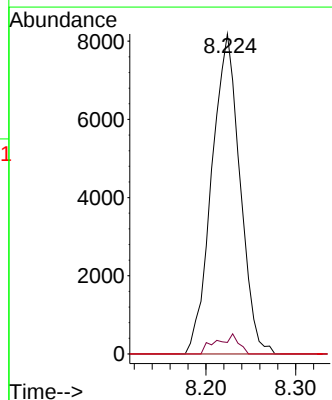
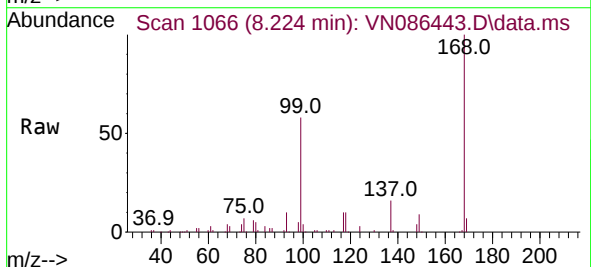
Tgt Ion: 117 Resp: 17880

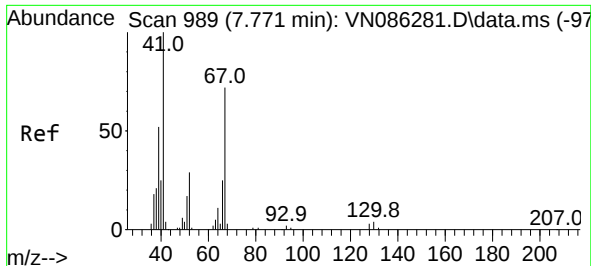
Ion Ratio Lower Upper

117 100

119 3.6 76.8 115.2#

121 0.0 23.8 35.8#

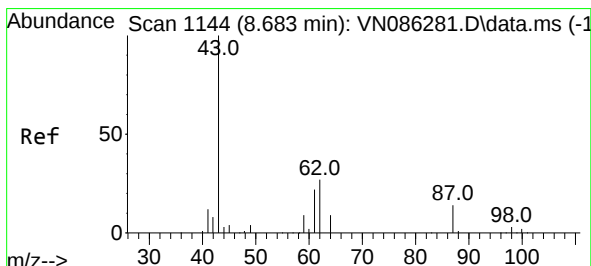
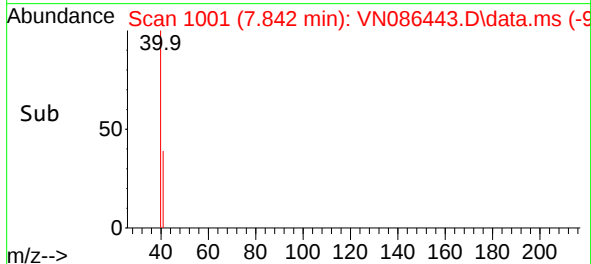
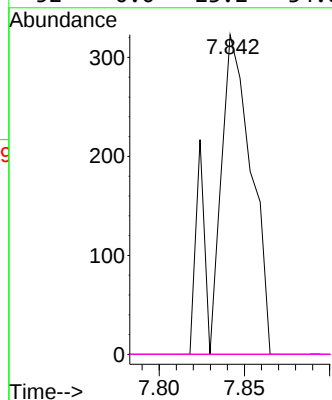
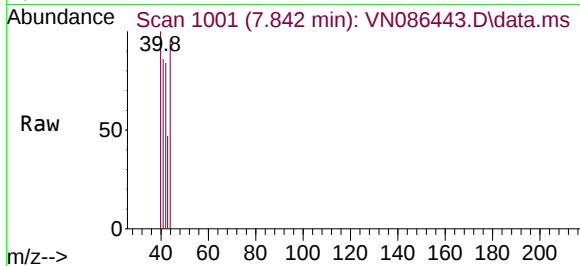




#41
Methacrylonitrile
Concen: 0.252 ug/l
RT: 7.842 min Scan# 1001
Delta R.T. 0.071 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

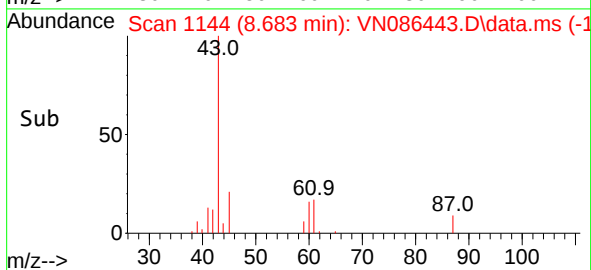
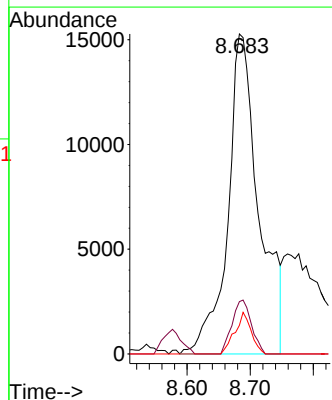
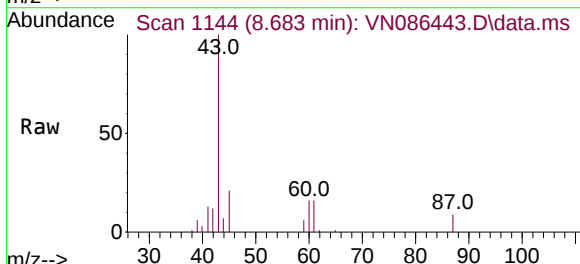
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#13

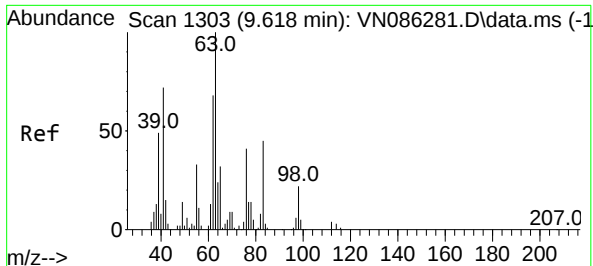
Tgt Ion: 41	Resp: 467
Ion Ratio	Lower Upper
41 100	
39 0.0	43.0 64.4#
67 0.0	58.8 88.2#
52 0.0	23.2 34.8#



#43
Isopropyl Acetate
Concen: 7.369 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

Tgt Ion: 43	Resp:	52198	
Ion Ratio	Lower	Upper	
43 100			
61 10.5	20.5	30.7#	
87 6.8	10.5	15.7#	





#45

1,2-Dichloropropane

Concen: 0.340 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.124 min

Lab File: VN086443.D

Acq: 30 Apr 2025 17:53

Instrument :

MSVOA_N

ClientSampleId :

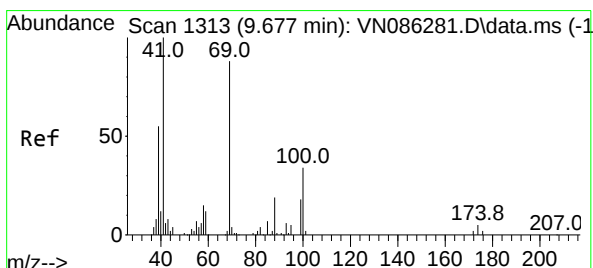
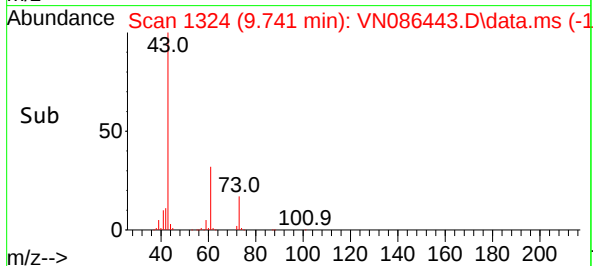
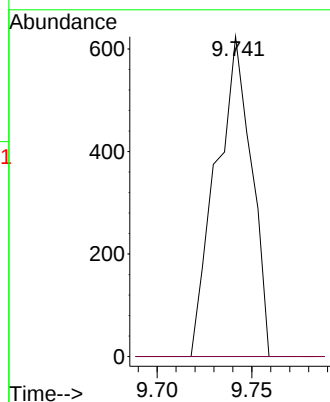
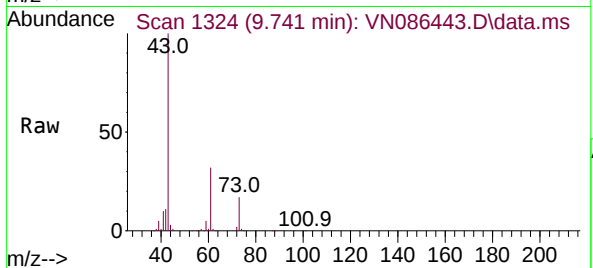
PB167775ZHE#13

Tgt Ion: 63 Resp: 810

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 1.852 ug/l

RT: 9.653 min Scan# 1309

Delta R.T. -0.023 min

Lab File: VN086443.D

Acq: 30 Apr 2025 17:53

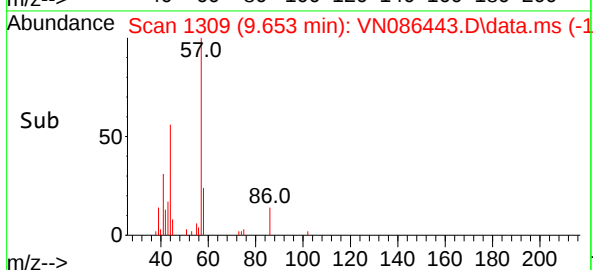
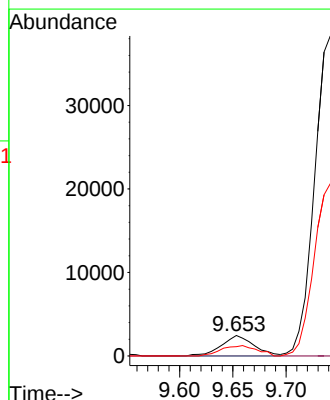
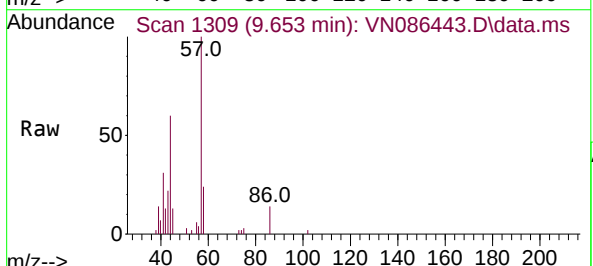
Tgt Ion: 41 Resp: 5197

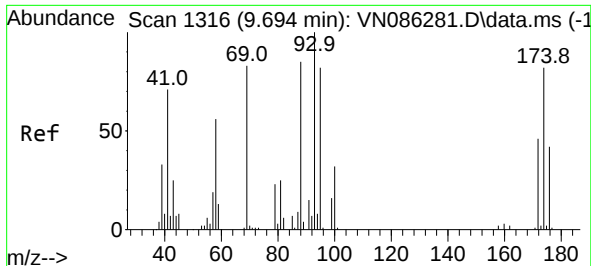
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 55.6 45.2 67.8





#49

1,4-Dioxane

Concen: 1.278 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.047 min

Lab File: VN086443.D

Acq: 30 Apr 2025 17:53

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#13

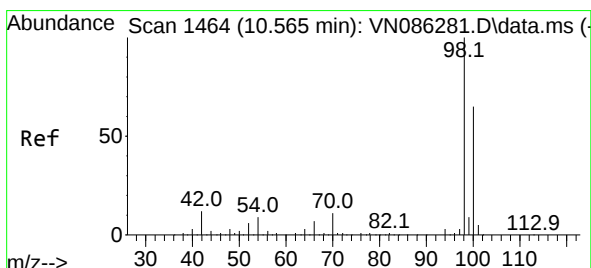
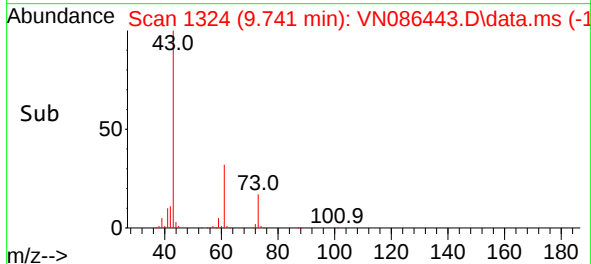
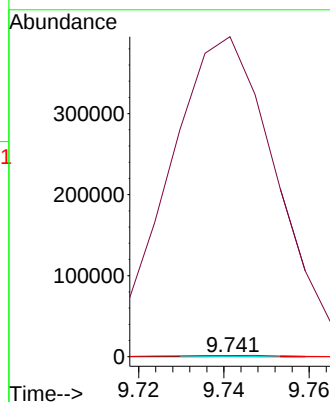
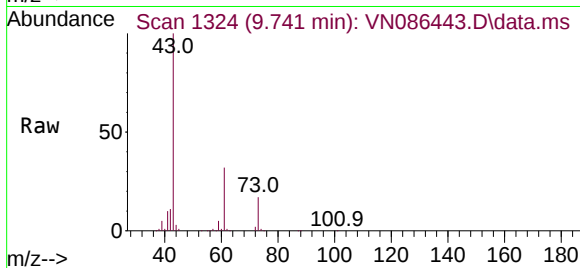
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 1175375.4 23.8 35.8#

58 4752.5 57.4 86.2#



#50

Toluene-d8

Concen: 52.161 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN086443.D

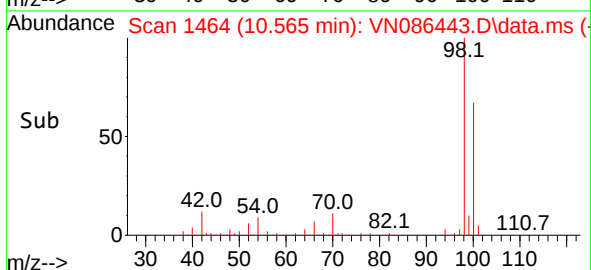
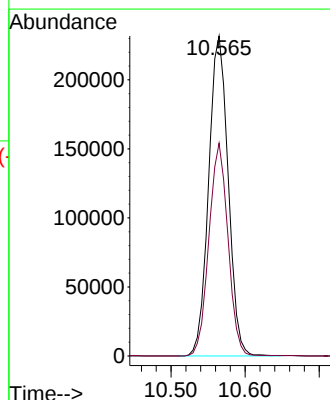
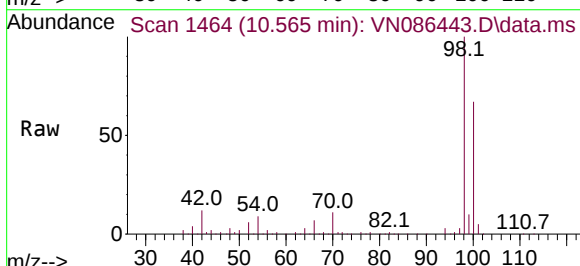
Acq: 30 Apr 2025 17:53

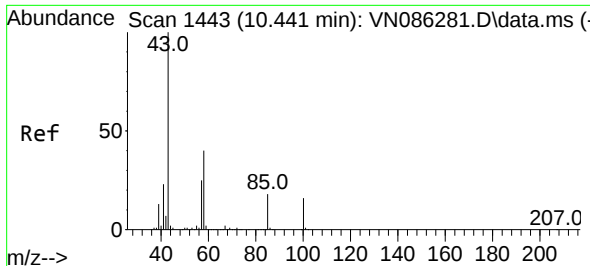
Tgt Ion: 98 Resp: 423742

Ion Ratio Lower Upper

98 100

100 64.9 52.5 78.7

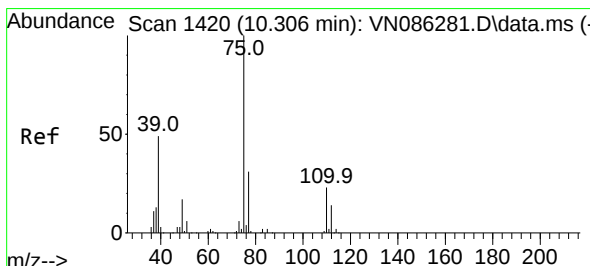
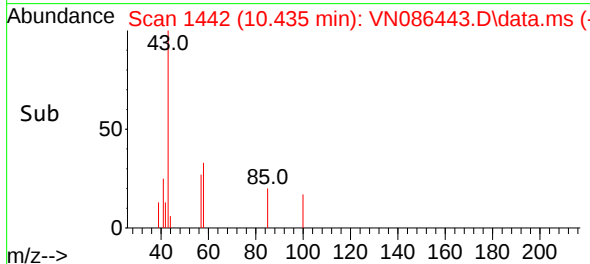
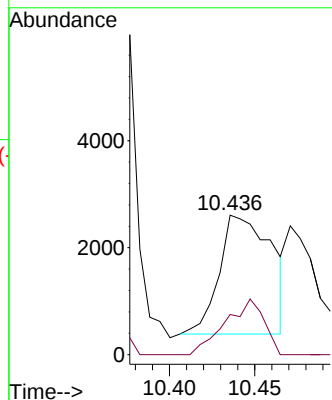
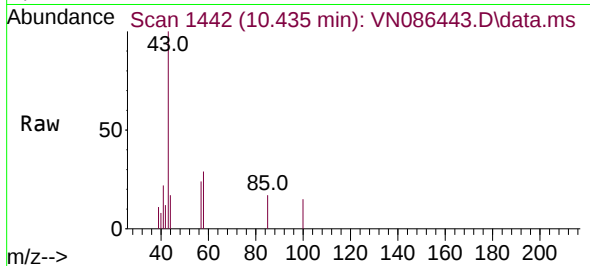




#51
4-Methyl-2-Pentanone
Concen: 1.444 ug/l
RT: 10.435 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

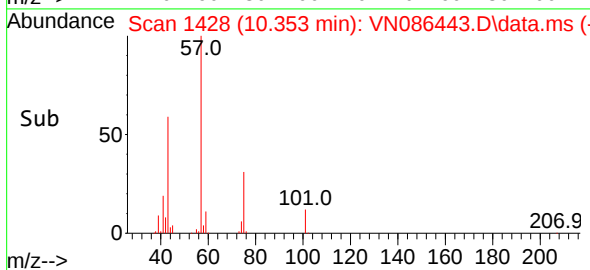
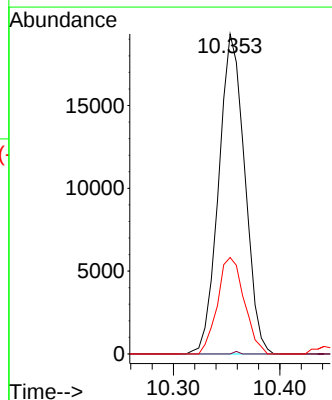
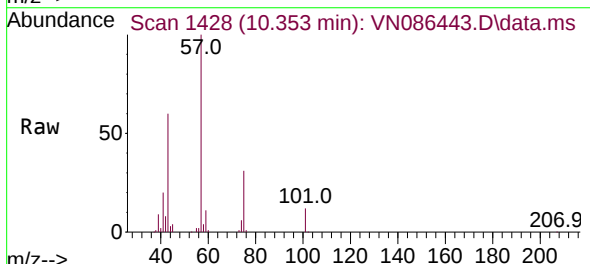
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#13

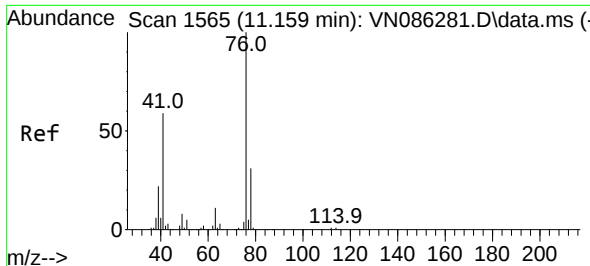
Tgt Ion: 43 Resp: 4725
Ion Ratio Lower Upper
43 100
58 34.9 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 8.160 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

Tgt Ion: 75 Resp: 32781
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 30.2 39.3 58.9#

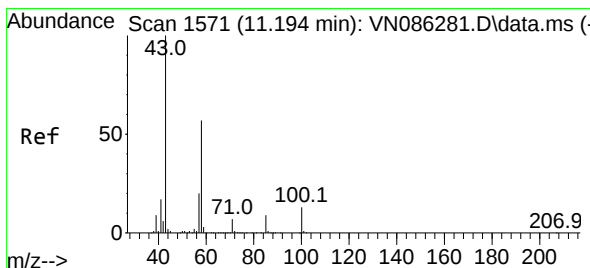
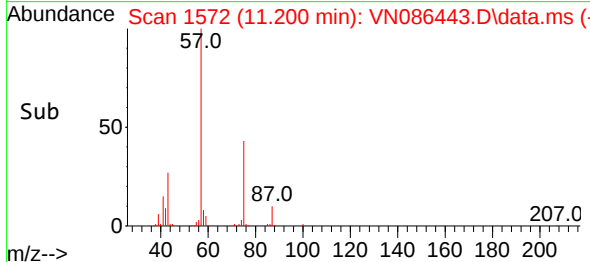
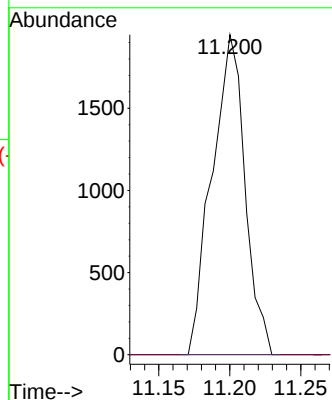
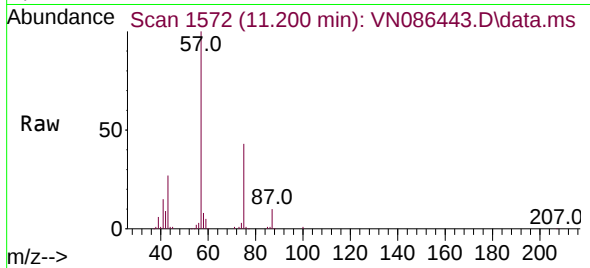




#57
1,3-Dichloropropane
Concen: 0.813 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

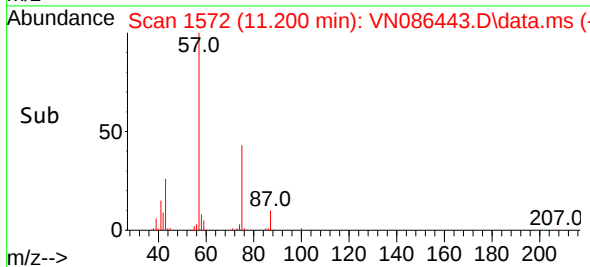
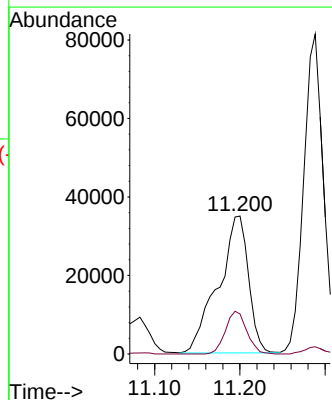
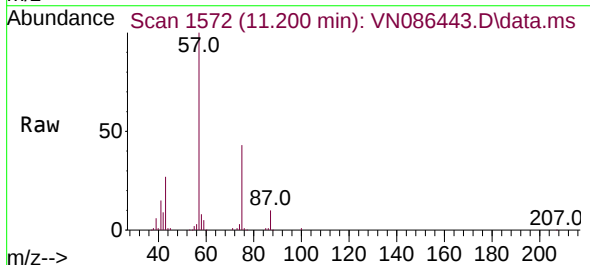
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#13

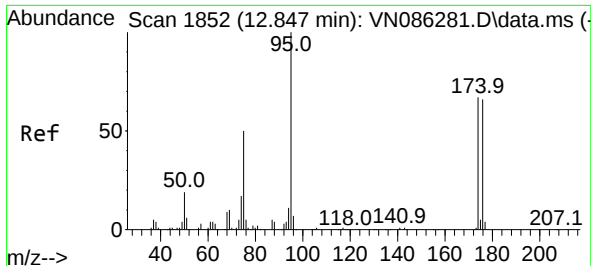
Tgt Ion: 76 Resp: 3149
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#



#59
2-Hexanone
Concen: 35.422 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

Tgt Ion: 43 Resp: 85994
Ion Ratio Lower Upper
43 100
58 22.0 28.3 85.0#

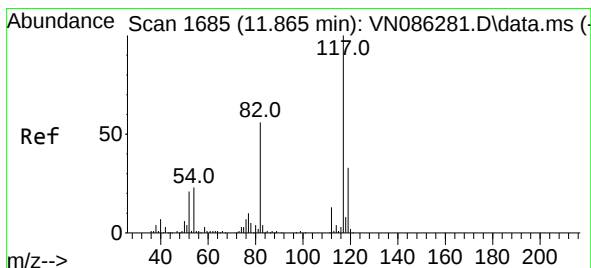
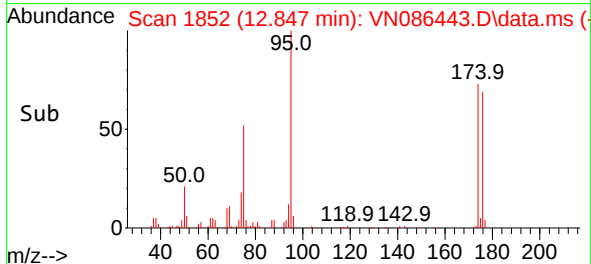
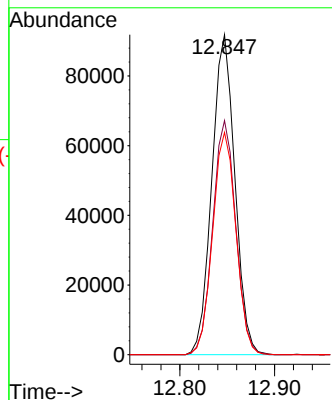
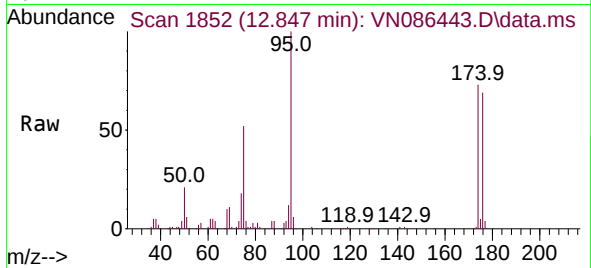




#62
4-Bromofluorobenzene
Concen: 52.319 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

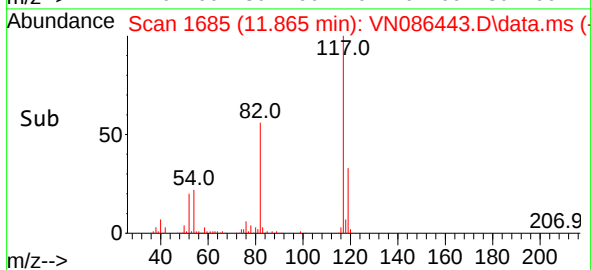
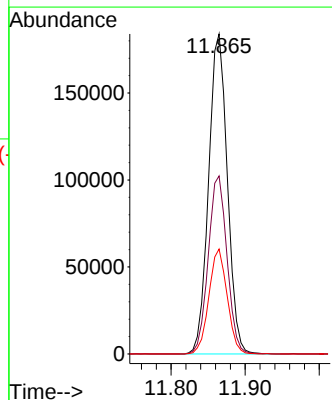
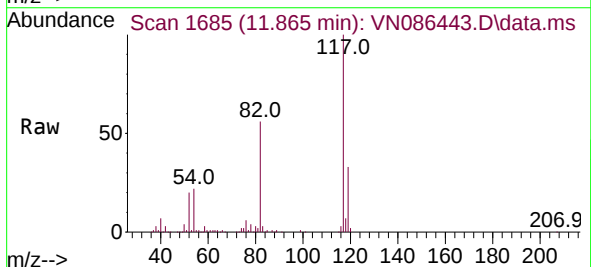
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#13

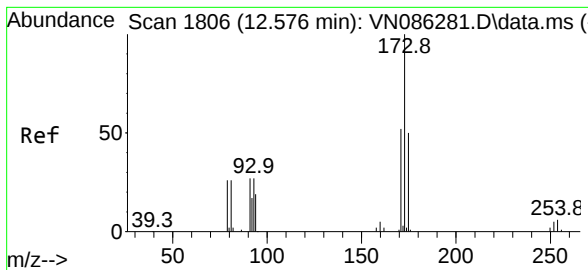
Tgt Ion: 95 Resp: 155024
Ion Ratio Lower Upper
95 100
174 73.2 0.0 133.4
176 70.3 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

Tgt Ion: 117 Resp: 323107
Ion Ratio Lower Upper
117 100
82 55.7 44.7 67.1
119 32.8 26.4 39.6

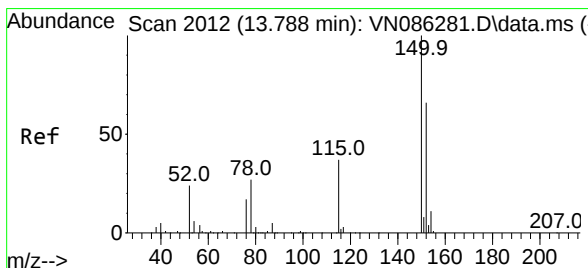
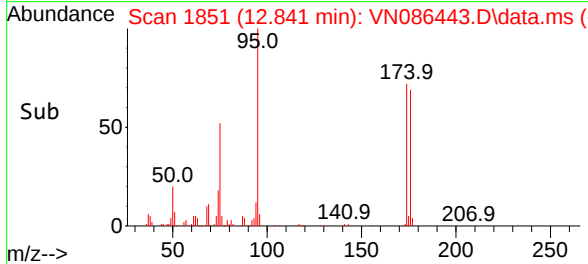
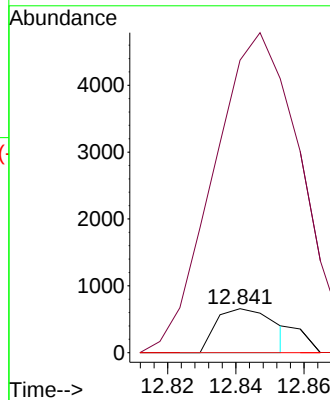
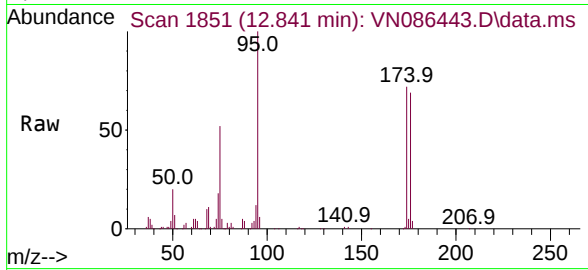




#71
Bromoform
Concen: 0.438 ug/l
RT: 12.841 min Scan# 1806
Delta R.T. 0.265 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

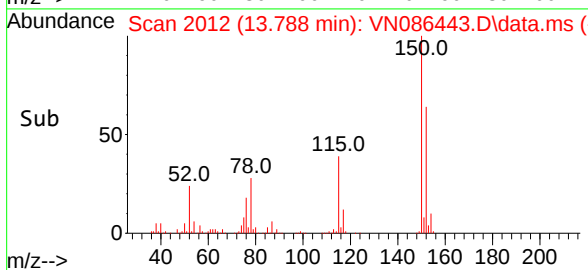
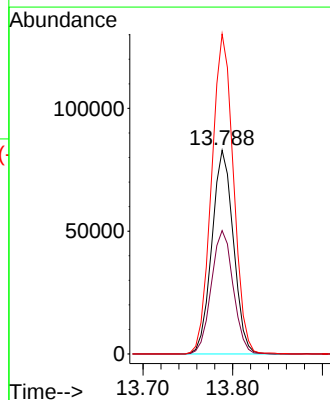
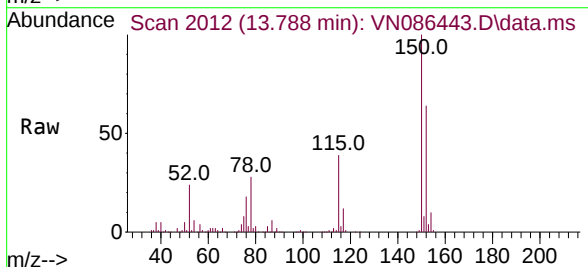
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#13

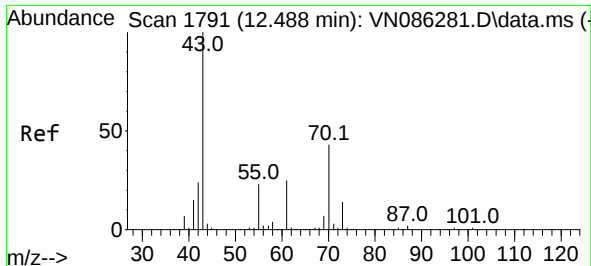
Tgt Ion:173 Resp: 784
Ion Ratio Lower Upper
173 100
175 860.2 24.6 73.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

Tgt Ion:152 Resp: 138024
Ion Ratio Lower Upper
152 100
115 61.5 31.9 95.9
150 159.5 0.0 352.0

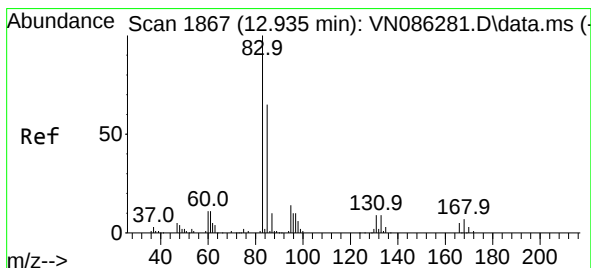
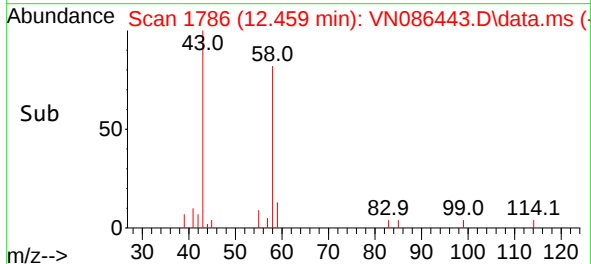
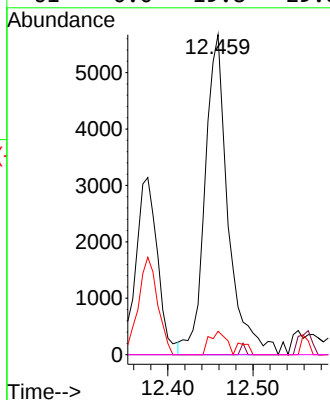
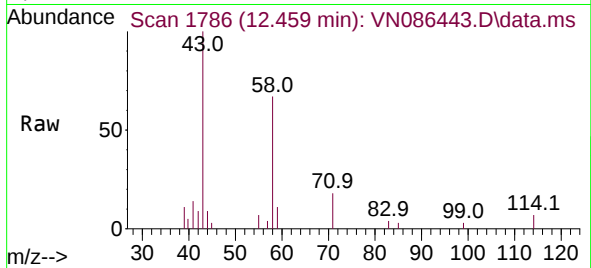




#74
N-amy1 acetate
Concen: 1.900 ug/l
RT: 12.459 min Scan# 1786
Delta R.T. -0.029 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

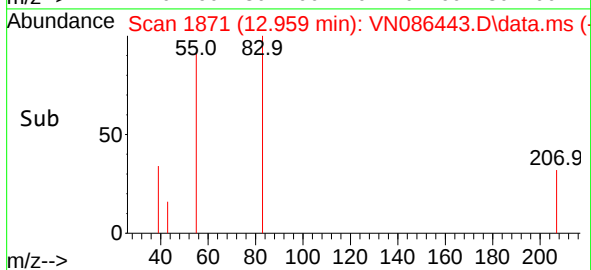
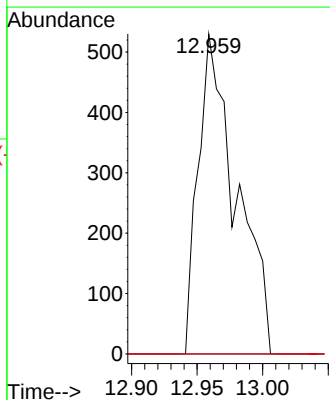
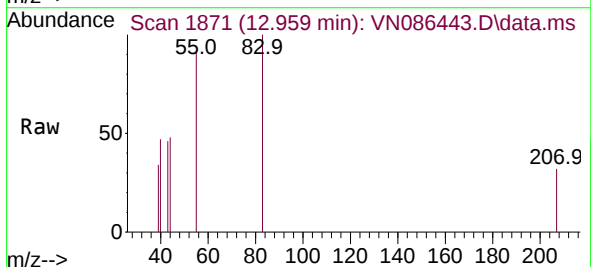
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#13

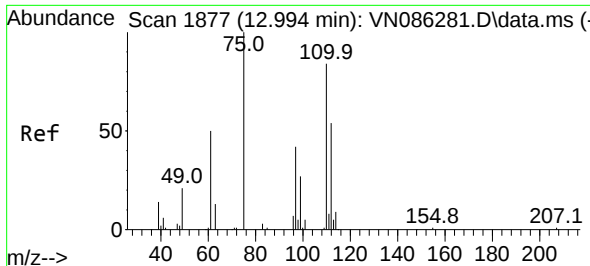
Tgt Ion:	43	Resp:	10682
Ion	Ratio	Lower	Upper
43	100		
70	0.0	35.0	52.4#
55	5.3	19.0	28.4#
61	0.0	19.8	29.8#



#75
1,1,2,2-Tetrachloroethane
Concen: 0.330 ug/l
RT: 12.959 min Scan# 1871
Delta R.T. 0.024 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

Tgt Ion:	83	Resp:	1071
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.7	14.1#
85	0.0	32.7	98.1#

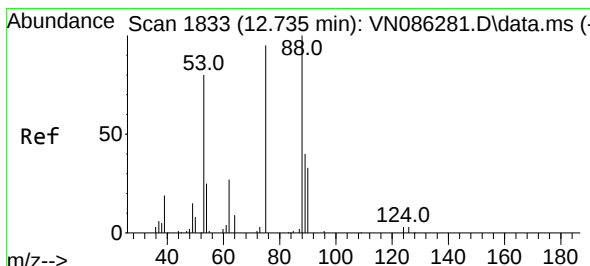
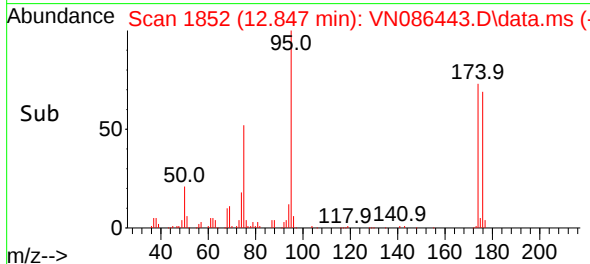
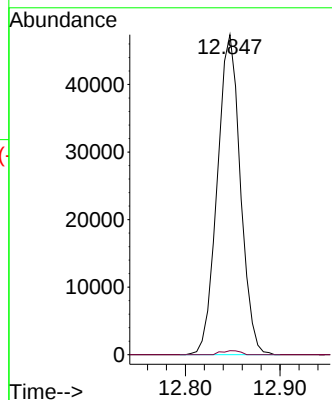
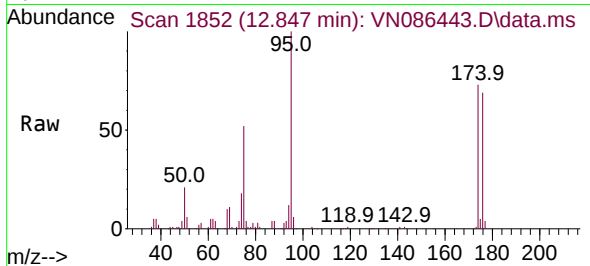




#76
1,2,3-Trichloropropane
Concen: 24.655 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#13

Tgt Ion: 75 Resp: 80306
Ion Ratio Lower Upper
75 100
77 1.0 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 59.213 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086443.D
Acq: 30 Apr 2025 17:53

Tgt Ion: 75 Resp: 80306
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.1 35.7 53.5#

