

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN043025\
 Data File : VN086432.D
 Acq On : 30 Apr 2025 13:26
 Operator : JC\MD
 Sample : PB167775ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#02

Quant Time: May 01 01:34:09 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)

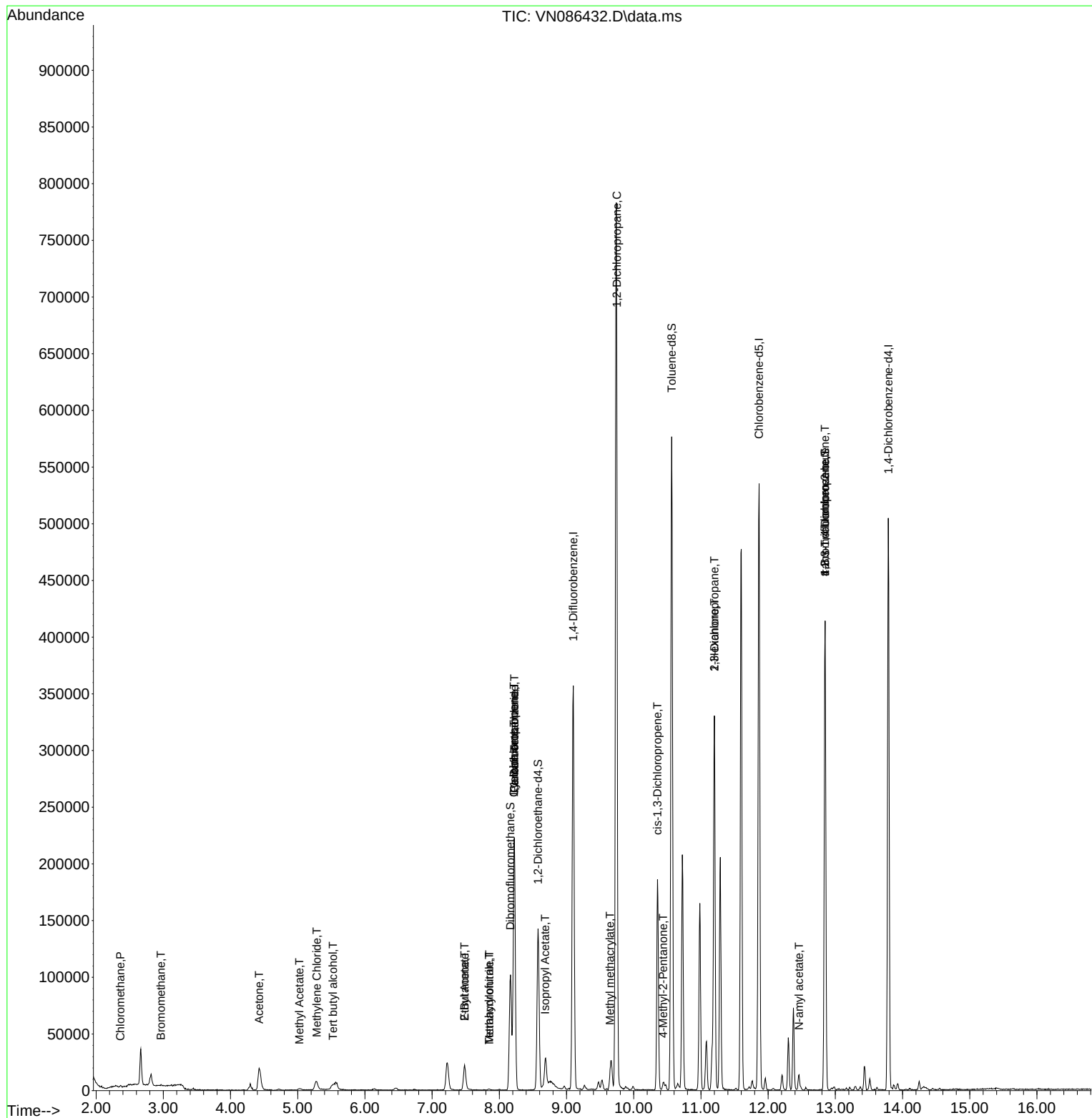
Internal Standards						
1) Pentafluorobenzene	8.224	168	164780	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	314367	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	307366	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	133881	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	116290	48.668	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.340%
35) Dibromofluoromethane	8.165	113	75237	51.567	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.140%
50) Toluene-d8	10.565	98	403056	51.689	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.380%
62) 4-Bromofluorobenzene	12.847	95	148262	52.129	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	104.260%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1069	0.377	ug/l	95
5) Bromomethane	2.965	94	347	0.285	ug/l	87
11) Tert butyl alcohol	5.524	59	8640	19.818	ug/l	95
16) Acetone	4.424	43	38019	41.255	ug/l	92
18) Methyl Acetate	5.024	43	3006	1.048	ug/l #	75
20) Methylene Chloride	5.283	84	5912	2.676	ug/l #	96
25) 2-Butanone	7.483	43	36747	24.707	ug/l	97
29) Tetrahydrofuran	7.847	42	938	0.943	ug/l #	32
31) Cyclohexane	8.218	56	3709	0.958	ug/l #	22
36) 1,1-Dichloropropene	8.218	75	13793	4.733	ug/l #	49
37) Ethyl Acetate	7.483	43	36747	11.977	ug/l #	68
38) Carbon Tetrachloride	8.224	117	17390	6.266	ug/l #	17
41) Methacrylonitrile	7.853	41	471	0.265	ug/l #	28
43) Isopropyl Acetate	8.683	43	36906	4.926	ug/l #	85
45) 1,2-Dichloropropane	9.747	63	1023	0.448	ug/l #	43
48) Methyl methacrylate	9.647	41	5024	1.865	ug/l #	42
51) 4-Methyl-2-Pentanone	10.435	43	5313	1.691	ug/l	90
54) cis-1,3-Dichloropropene	10.353	75	34367	8.912	ug/l #	59
57) 1,3-Dichloropropane	11.200	76	3144	0.845	ug/l #	43
59) 2-Hexanone	11.200	43	87322	37.473	ug/l #	51
74) N-amyl acetate	12.459	43	9475	1.738	ug/l #	46
76) 1,2,3-Trichloropropane	12.847	75	75702	23.961	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	75702	57.545	ug/l #	10

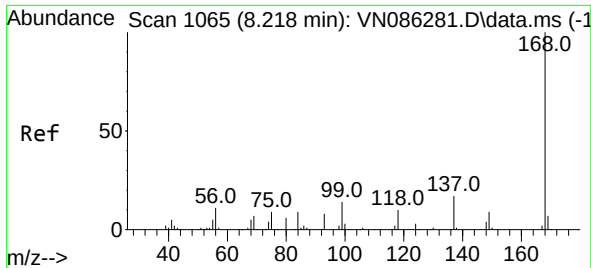
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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PB167775ZHE#02

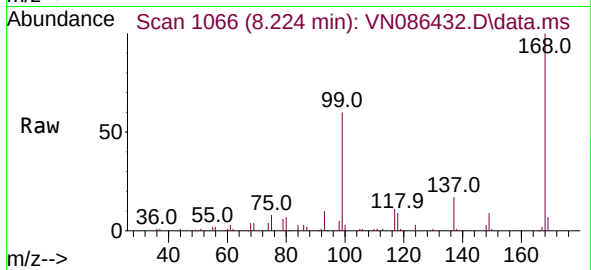
Quant Time: May 01 01:34:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
Quant Title : SW846 8260
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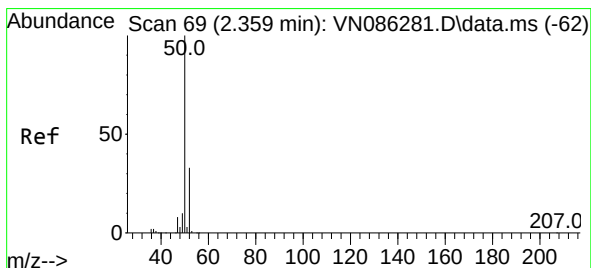
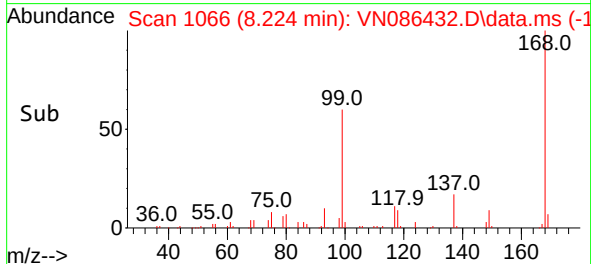
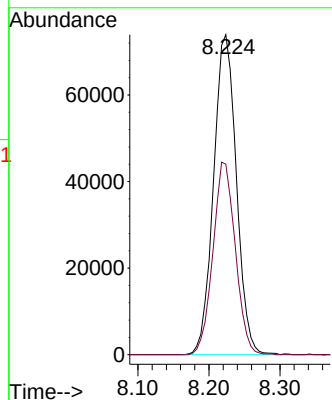


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086432.D
Acq: 30 Apr 2025 13:26

Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#02

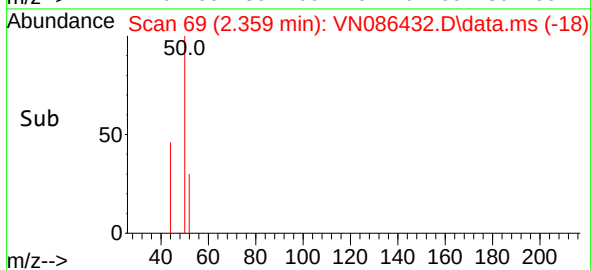
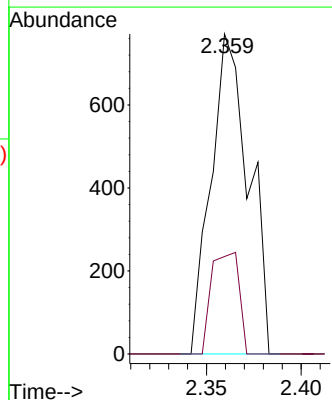
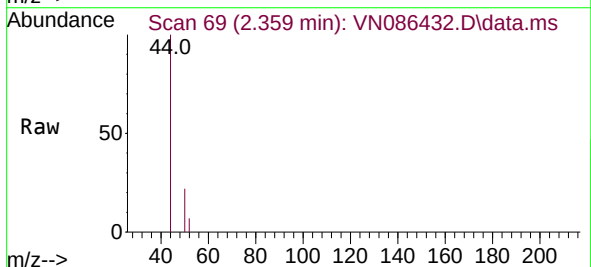


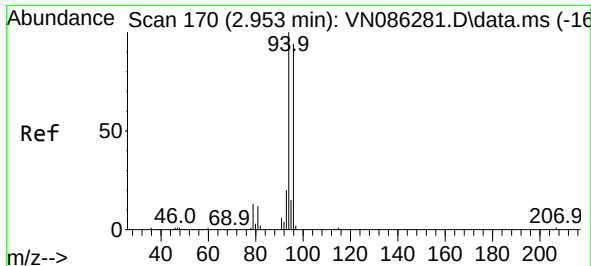
Tgt Ion:168 Resp: 164780
Ion Ratio Lower Upper
168 100
99 59.5 52.5 78.7



#3
Chloromethane
Concen: 0.377 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086432.D
Acq: 30 Apr 2025 13:26

Tgt Ion: 50 Resp: 1069
Ion Ratio Lower Upper
50 100
52 30.5 26.5 39.7

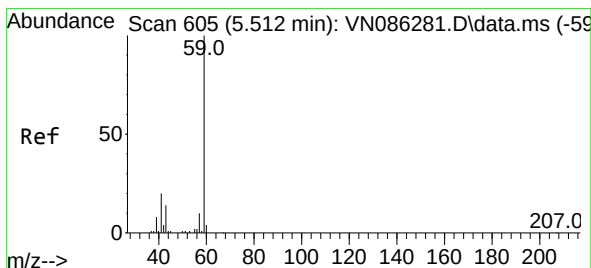
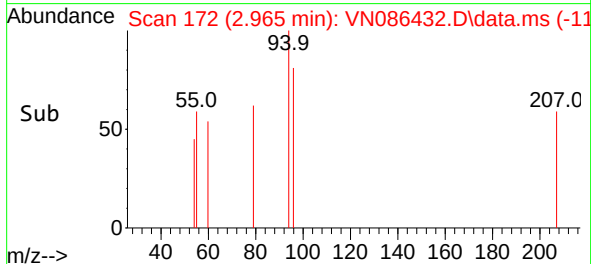
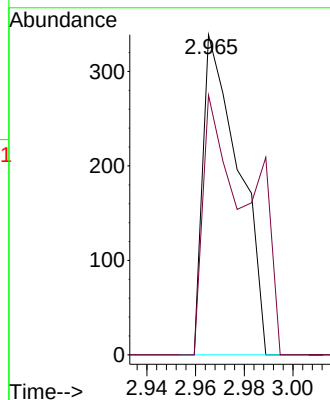
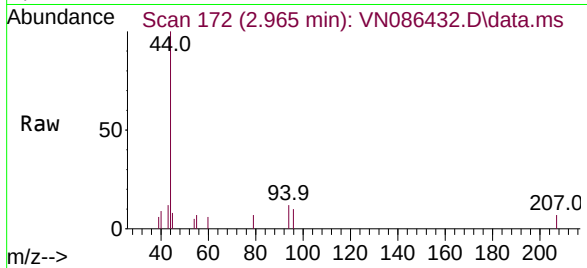




#5
Bromomethane
Concen: 0.285 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN086432.D
Acq: 30 Apr 2025 13:26

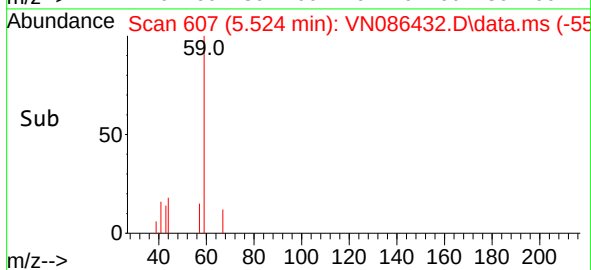
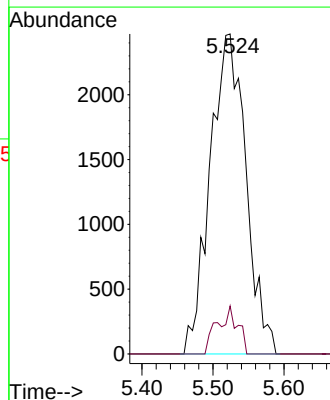
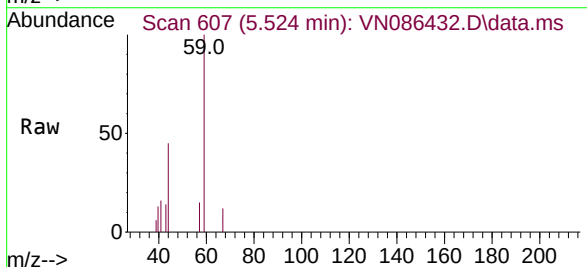
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#02

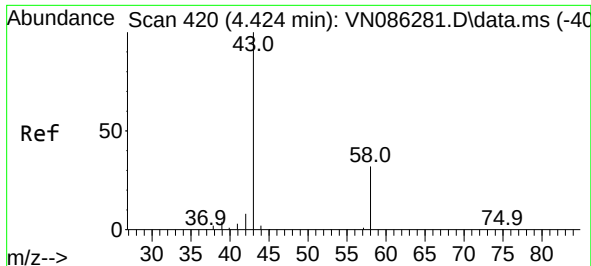
Tgt Ion: 94 Resp: 347
Ion Ratio Lower Upper
94 100
96 81.1 75.2 112.8



#11
Tert butyl alcohol
Concen: 19.818 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.012 min
Lab File: VN086432.D
Acq: 30 Apr 2025 13:26

Tgt Ion: 59 Resp: 8640
Ion Ratio Lower Upper
59 100
57 8.5 8.3 12.5

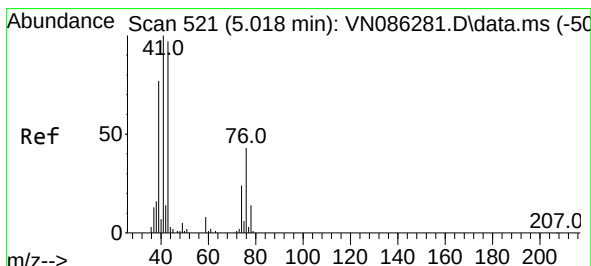
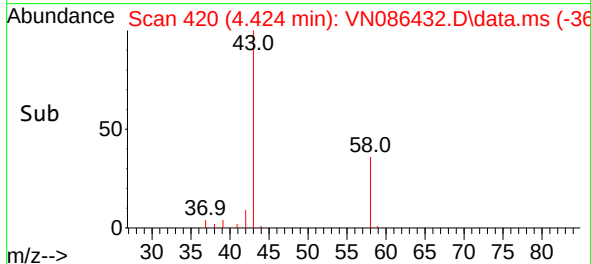
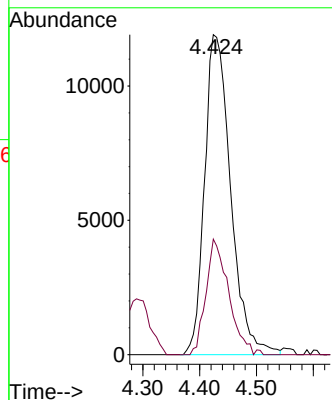
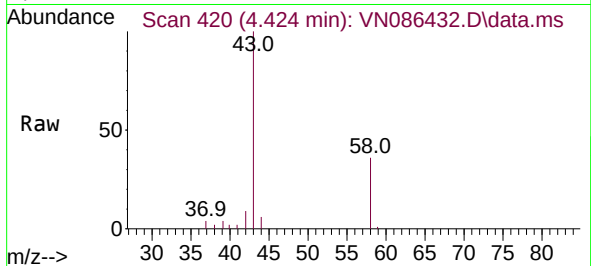




#16
Acetone
Concen: 41.255 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN086432.D
Acq: 30 Apr 2025 13:26

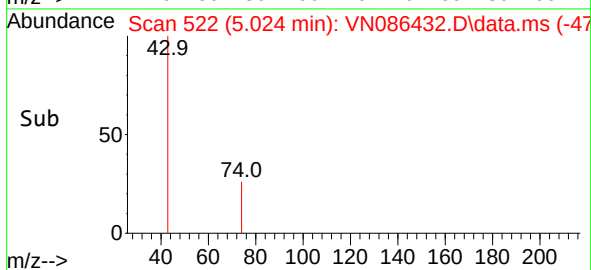
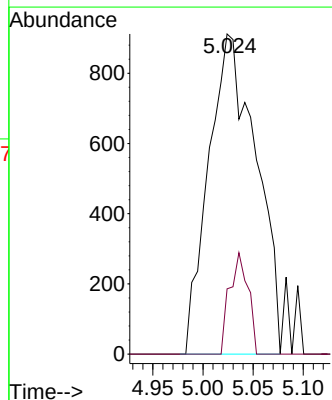
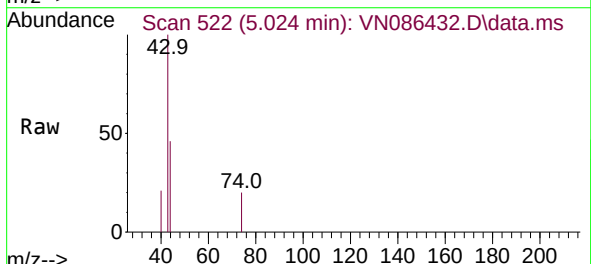
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#02

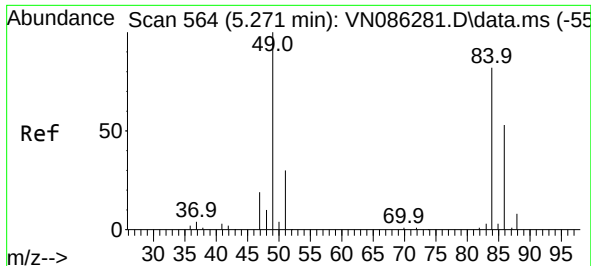
Tgt Ion: 43 Resp: 38019
Ion Ratio Lower Upper
43 100
58 36.1 25.3 37.9



#18
Methyl Acetate
Concen: 1.048 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN086432.D
Acq: 30 Apr 2025 13:26

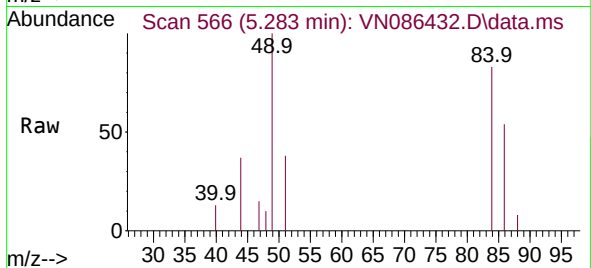
Tgt Ion: 43 Resp: 3006
Ion Ratio Lower Upper
43 100
74 12.3 19.8 29.6#



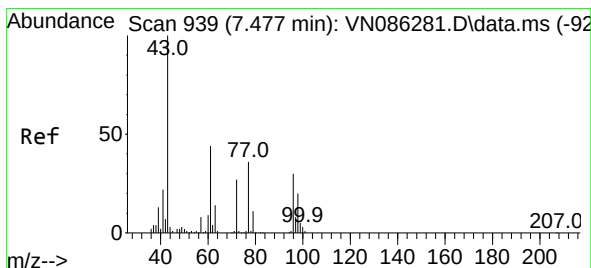
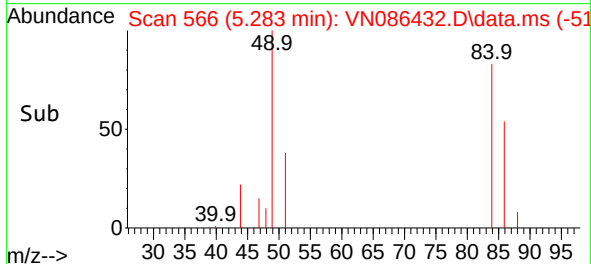
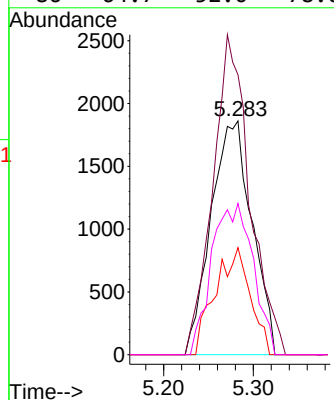


#20
Methylene Chloride
Concen: 2.676 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086432.D
Acq: 30 Apr 2025 13:26

Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#02

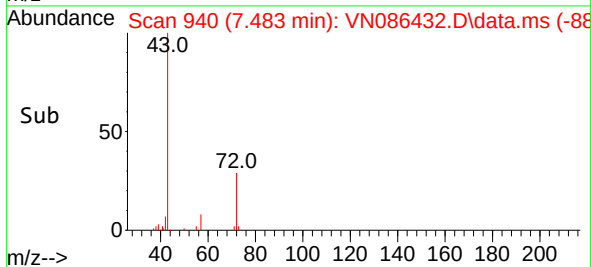
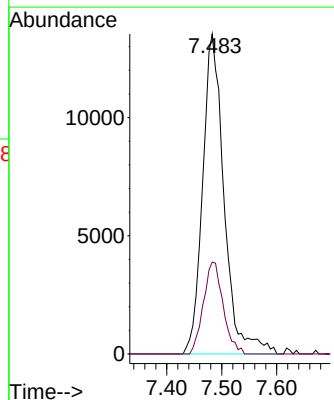
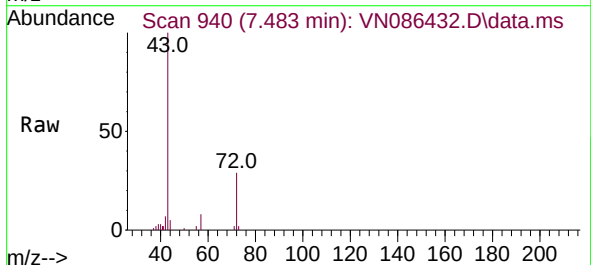


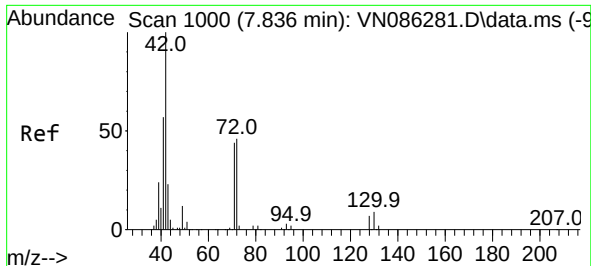
Tgt Ion:	84	Resp:	5912
Ion	Ratio	Lower	Upper
84	100		
49	119.8	98.2	147.2
51	45.8	29.8	44.6#
86	64.7	52.0	78.0



#25
2-Butanone
Concen: 24.707 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086432.D
Acq: 30 Apr 2025 13:26

Tgt Ion:	43	Resp:	36747
Ion	Ratio	Lower	Upper
43	100		
72	28.7	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.943 ug/l

RT: 7.847 min Scan# 1065

Delta R.T. 0.012 min

Lab File: VN086432.D

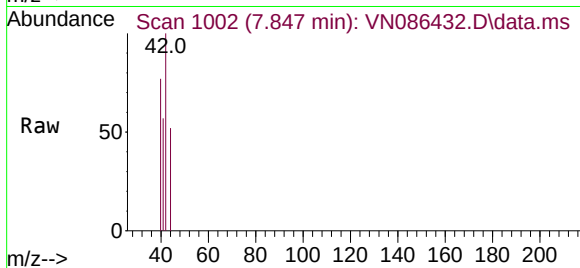
Acq: 30 Apr 2025 13:26

Instrument :

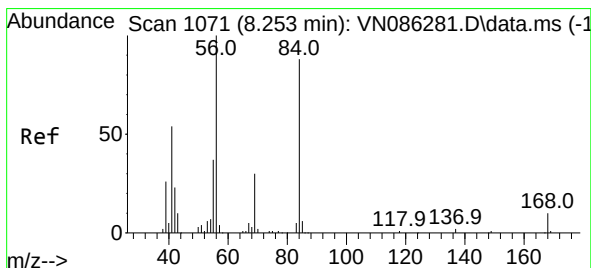
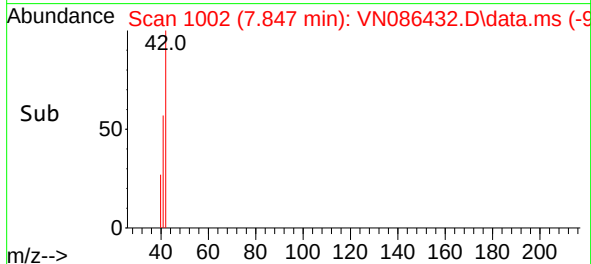
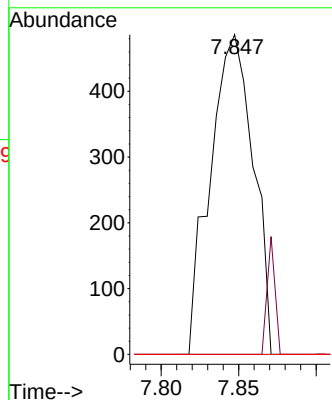
MSVOA_N

ClientSampleId :

PB167775ZHE#02



Tgt Ion:	42	Resp:	938
Ion Ratio	Lower	Upper	
42	100		
72	0.0	36.2	54.4#
71	0.0	34.0	51.0#



#31

Cyclohexane

Concen: 0.958 ug/l

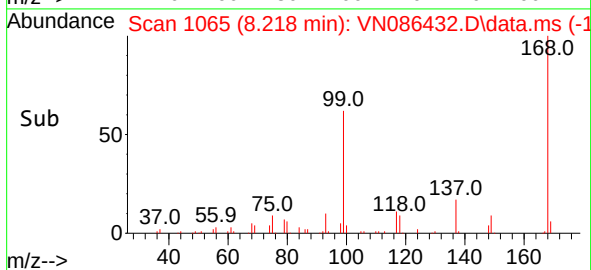
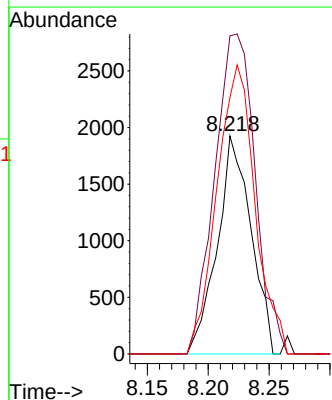
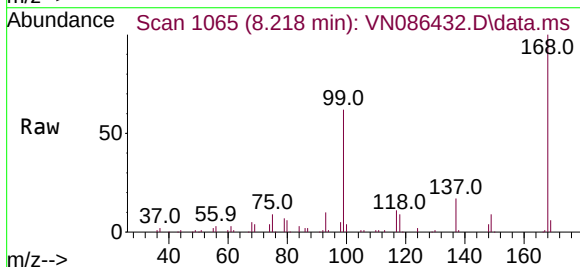
RT: 8.218 min Scan# 1065

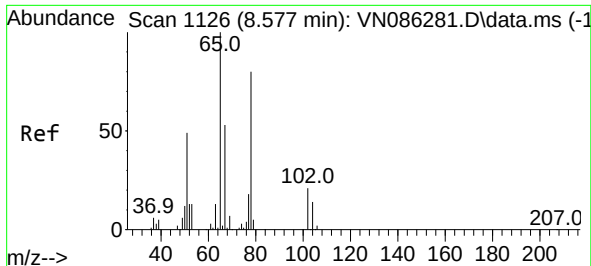
Delta R.T. -0.035 min

Lab File: VN086432.D

Acq: 30 Apr 2025 13:26

Tgt Ion:	56	Resp:	3709
Ion Ratio	Lower	Upper	
56	100		
69	146.0	24.2	36.2#
84	117.7	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 48.668 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086432.D

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Instrument :

MSVOA_N

ClientSampleId :

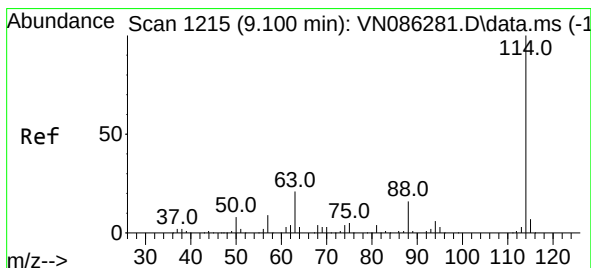
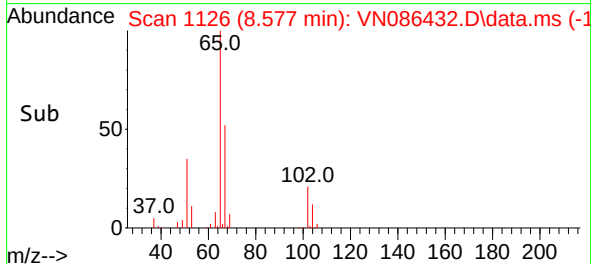
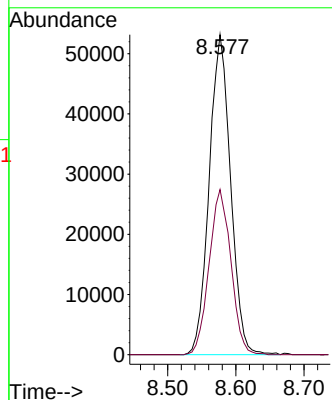
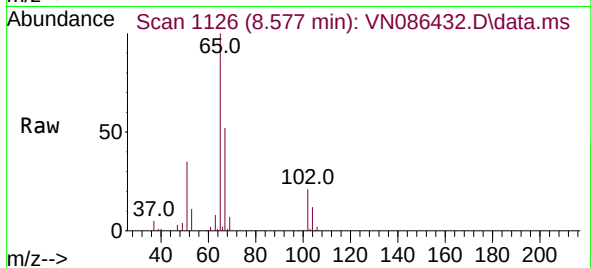
PB167775ZHE#02

Tgt Ion: 65 Resp: 116290

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: VN086432.D

Acq: 30 Apr 2025 13:26

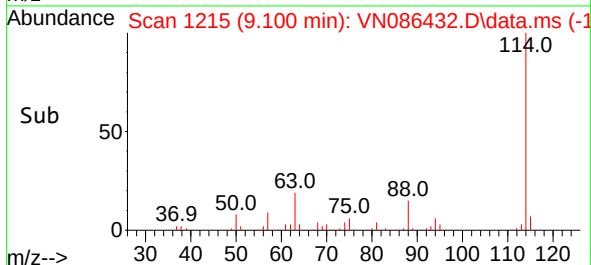
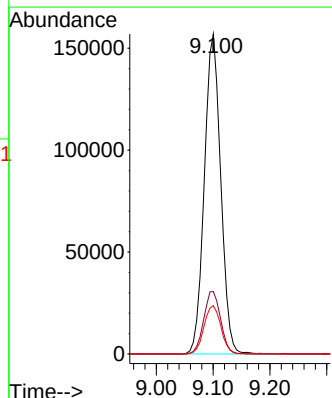
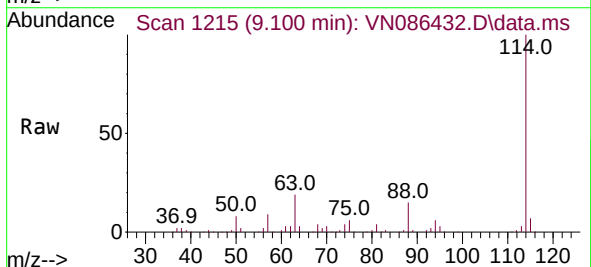
Tgt Ion: 114 Resp: 314367

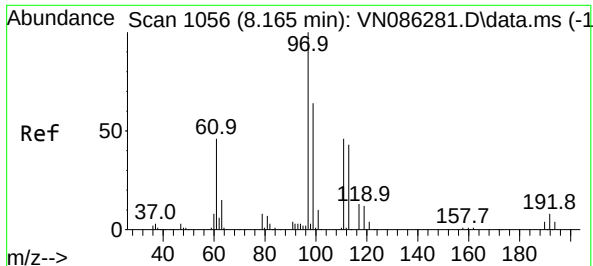
Ion Ratio Lower Upper

114 100

63 19.5 0.0 42.6

88 15.1 0.0 31.8





#35

Dibromofluoromethane

Concen: 51.567 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086432.D

Acq: 30 Apr 2025 13:26

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#02

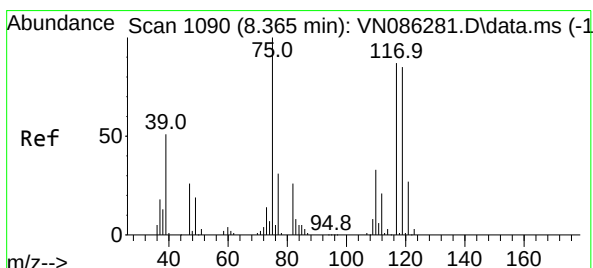
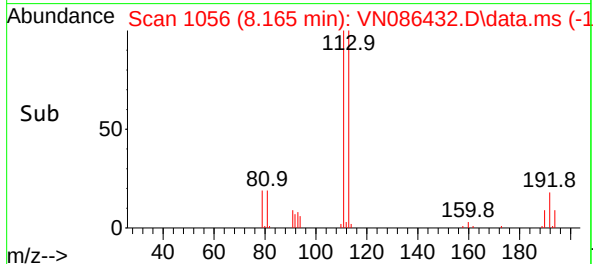
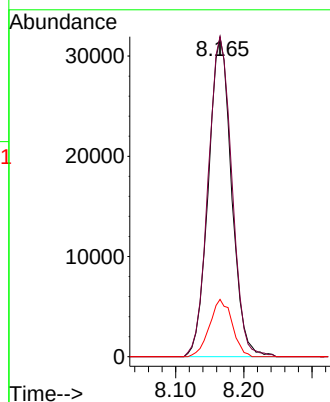
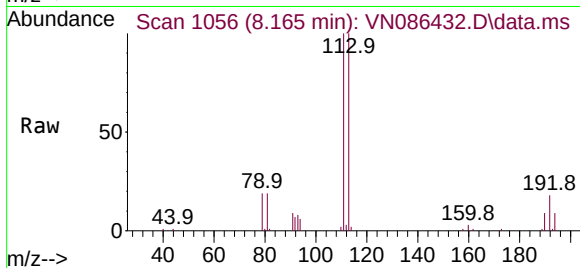
Tgt Ion:113 Resp: 75237

Ion Ratio Lower Upper

113 100

111 102.7 83.4 125.0

192 17.5 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.733 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086432.D

Acq: 30 Apr 2025 13:26

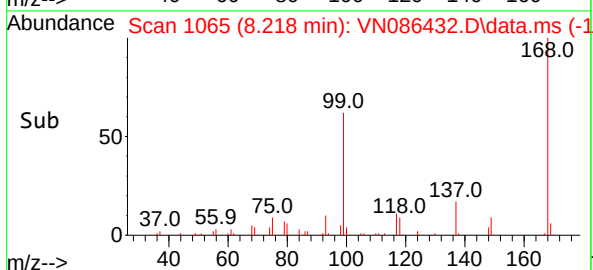
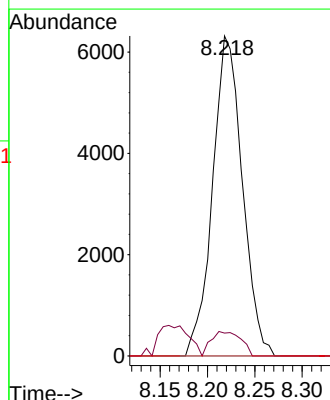
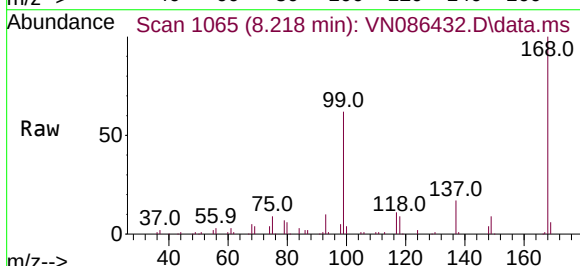
Tgt Ion: 75 Resp: 13793

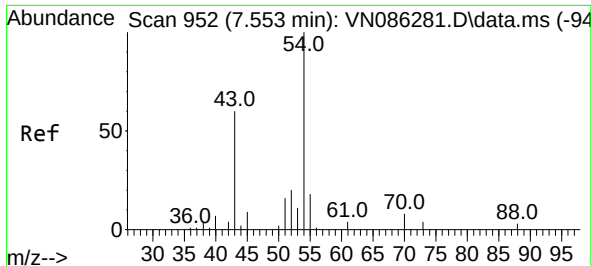
Ion Ratio Lower Upper

75 100

110 7.6 16.8 50.4#

77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 11.977 ug/l

RT: 7.483 min Scan# 94

Delta R.T. -0.071 min

Lab File: VN086432.D

Acq: 30 Apr 2025 13:26

Instrument :

MSVOA_N

ClientSampleId :

PB167775ZHE#02

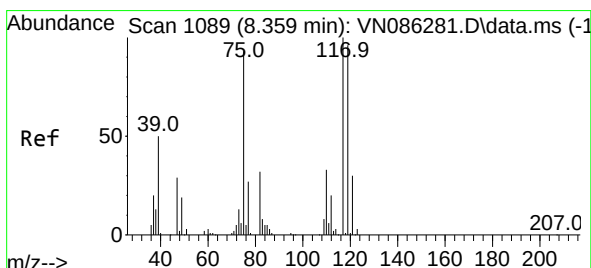
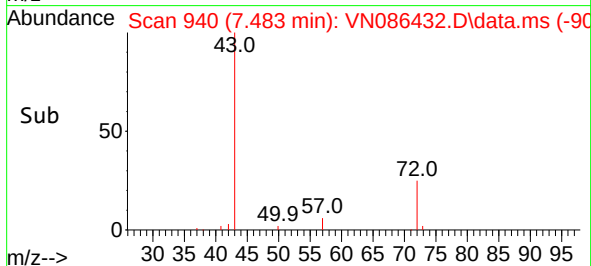
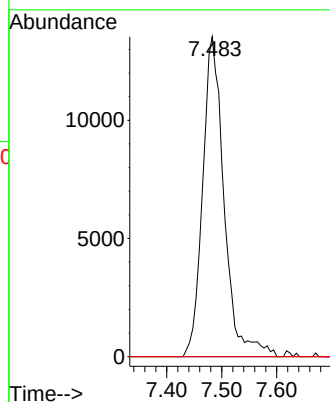
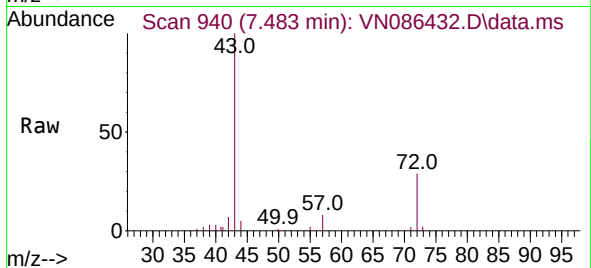
Tgt Ion: 43 Resp: 36747

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 9.2 13.8#



#38

Carbon Tetrachloride

Concen: 6.266 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086432.D

Acq: 30 Apr 2025 13:26

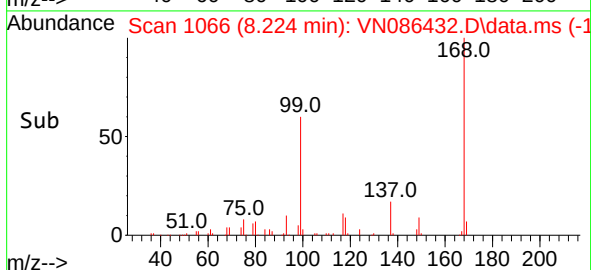
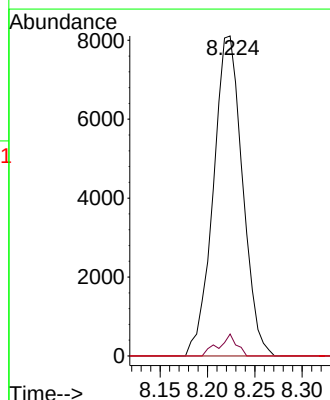
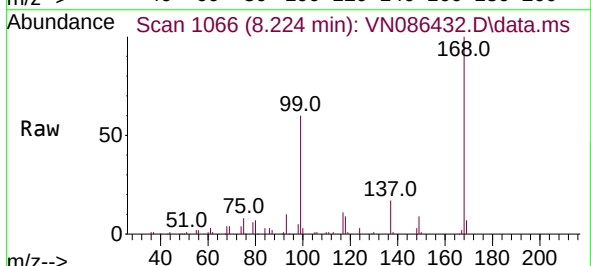
Tgt Ion: 117 Resp: 17390

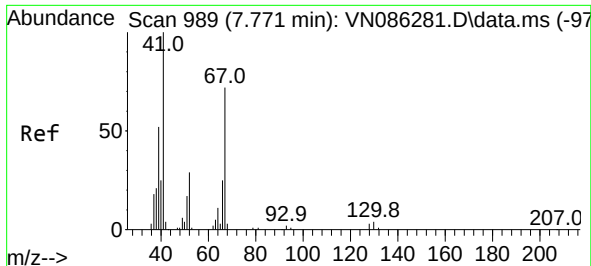
Ion Ratio Lower Upper

117 100

119 6.9 76.8 115.2#

121 0.0 23.8 35.8#

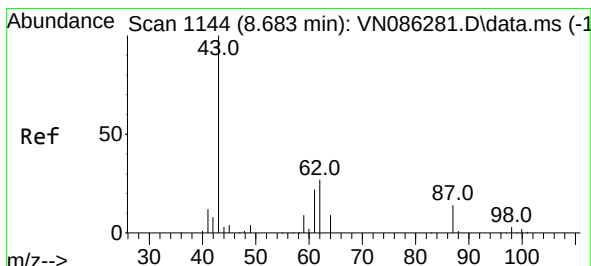
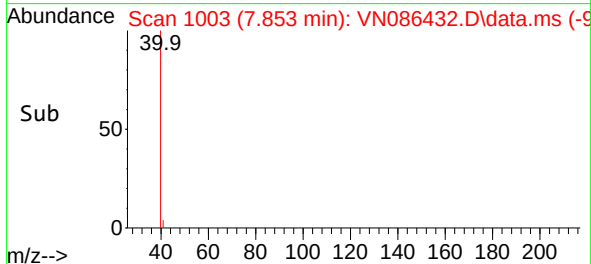
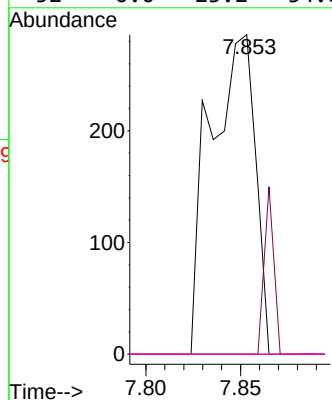
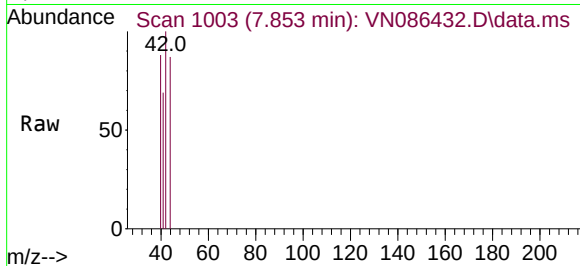




#41
Methacrylonitrile
Concen: 0.265 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.082 min
Lab File: VN086432.D
Acq: 30 Apr 2025 13:26

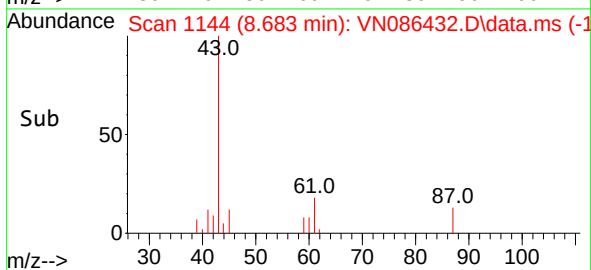
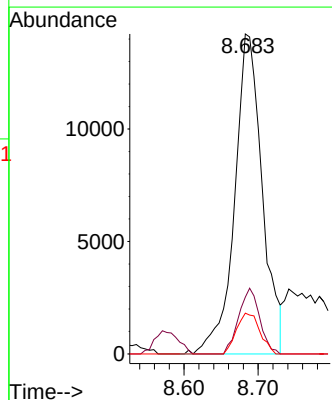
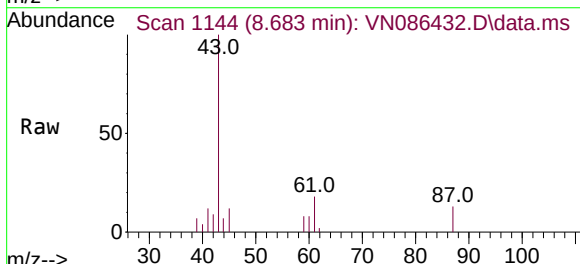
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#02

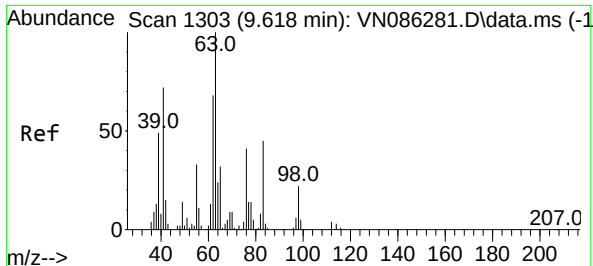
Tgt Ion: 41	Resp:	471	
Ion	Ratio	Lower	Upper
41	100		
39	11.3	43.0	64.4#
67	0.0	58.8	88.2#
52	0.0	23.2	34.8#



#43
Isopropyl Acetate
Concen: 4.926 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086432.D
Acq: 30 Apr 2025 13:26

Tgt Ion: 43	Resp:	36906	
Ion	Ratio	Lower	Upper
43	100		
61	15.6	20.5	30.7#
87	10.8	10.5	15.7





#45

1,2-Dichloropropane

Concen: 0.448 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.129 min

Lab File: VN086432.D

Acq: 30 Apr 2025 13:26

Instrument :

MSVOA_N

ClientSampleId :

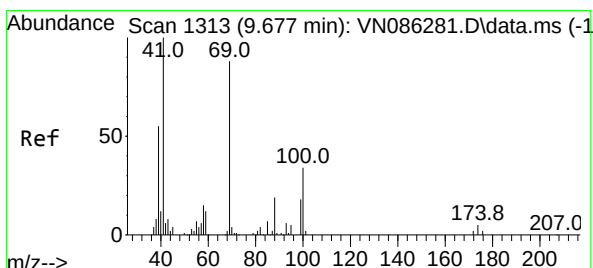
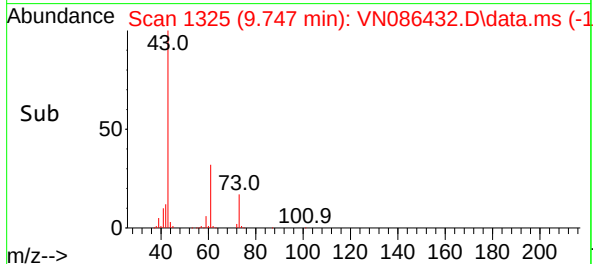
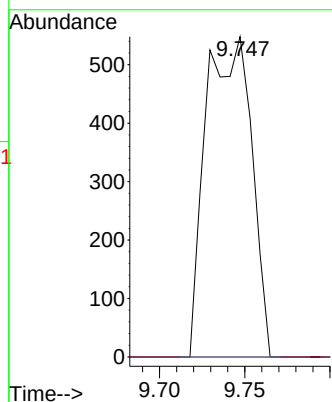
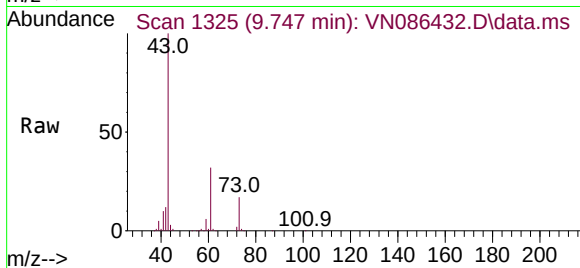
PB167775ZHE#02

Tgt Ion: 63 Resp: 1023

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 1.865 ug/l

RT: 9.647 min Scan# 1308

Delta R.T. -0.029 min

Lab File: VN086432.D

Acq: 30 Apr 2025 13:26

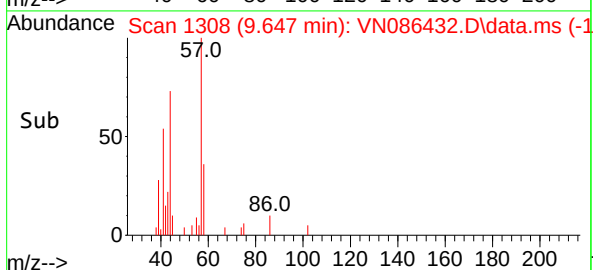
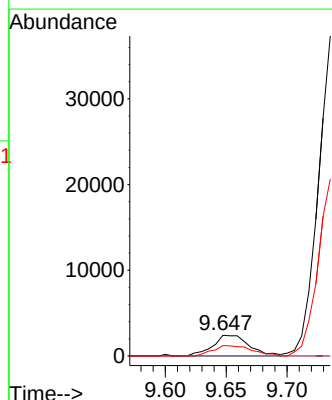
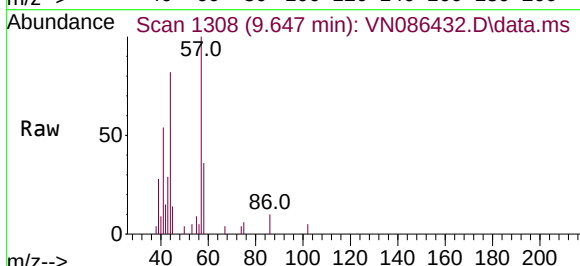
Tgt Ion: 41 Resp: 5024

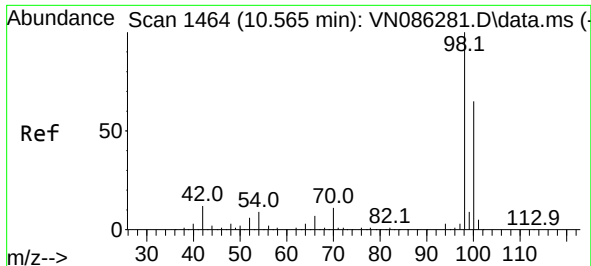
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 53.7 45.2 67.8

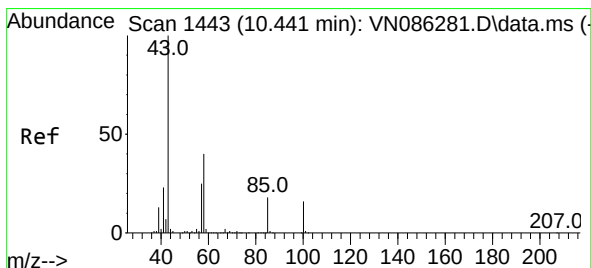
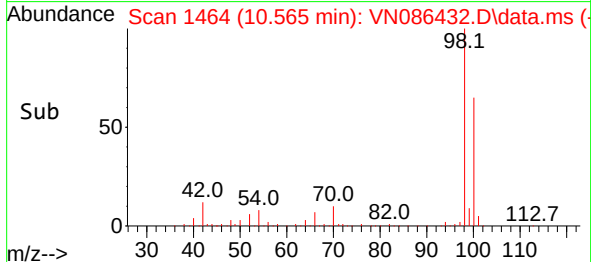
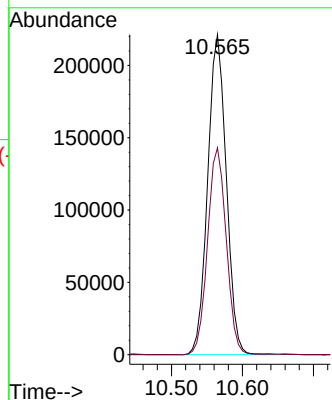
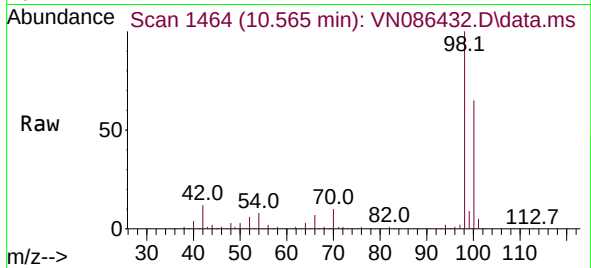




#50
Toluene-d8
Concen: 51.689 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086432.D
Acq: 30 Apr 2025 13:26

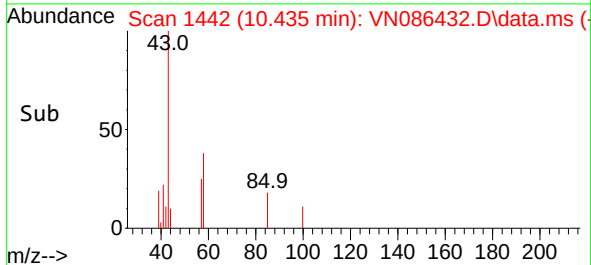
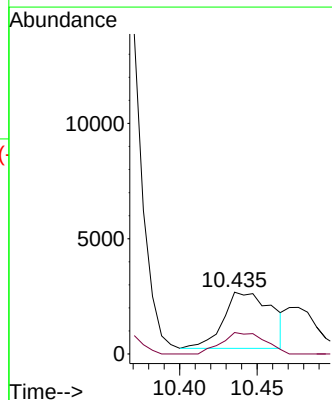
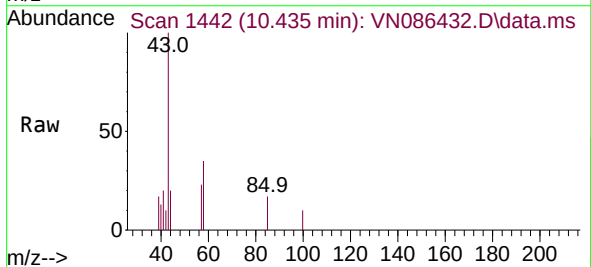
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#02

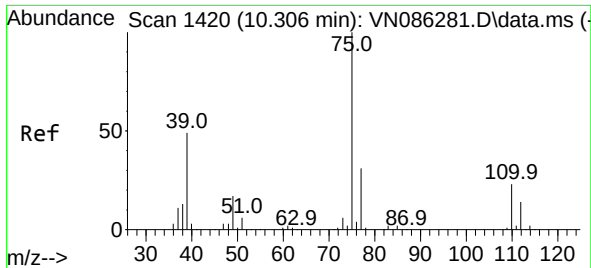
Tgt Ion: 98 Resp: 403056
Ion Ratio Lower Upper
98 100
100 64.8 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.691 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. -0.006 min
Lab File: VN086432.D
Acq: 30 Apr 2025 13:26

Tgt Ion: 43 Resp: 5313
Ion Ratio Lower Upper
43 100
58 34.0 32.2 48.4

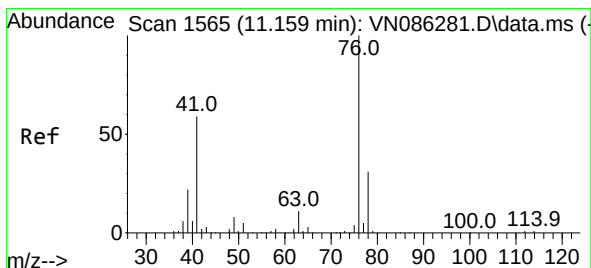
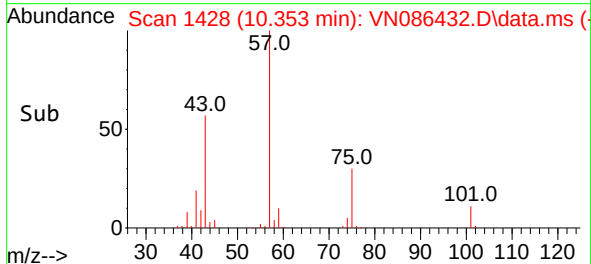
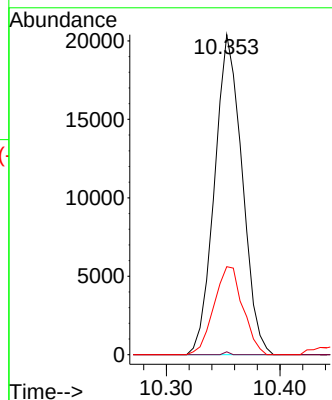
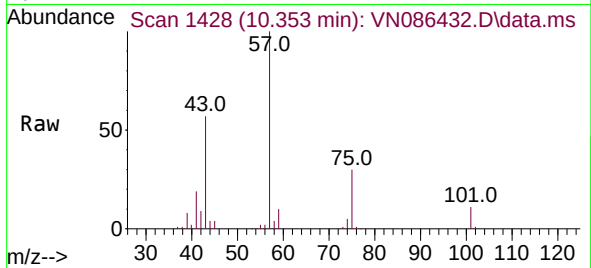




#54
 cis-1,3-Dichloropropene
 Concen: 8.912 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086432.D
 Acq: 30 Apr 2025 13:26

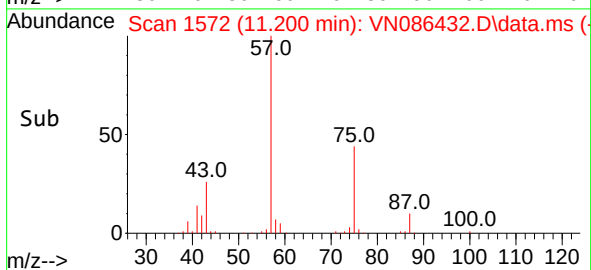
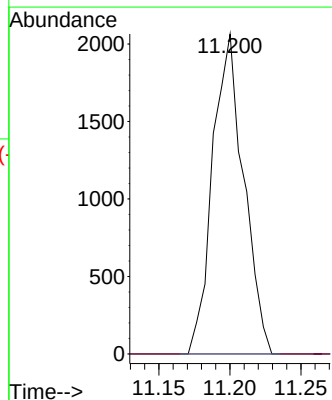
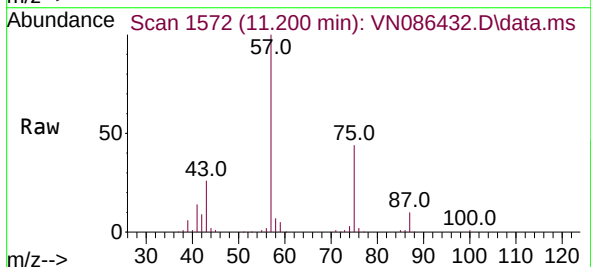
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167775ZHE#02

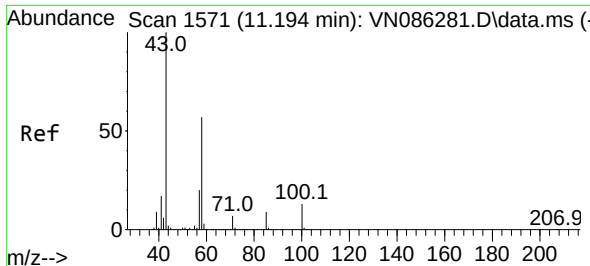
Tgt Ion: 75 Resp: 34367
 Ion Ratio Lower Upper
 75 100
 77 0.9 25.2 37.8#
 39 27.5 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.845 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086432.D
 Acq: 30 Apr 2025 13:26

Tgt Ion: 76 Resp: 3144
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

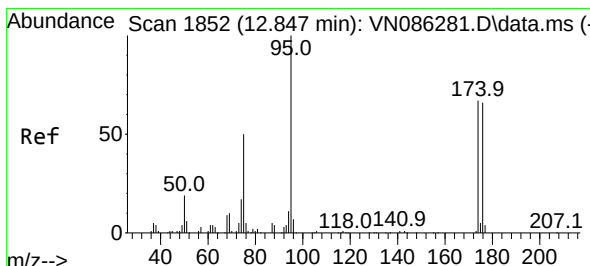
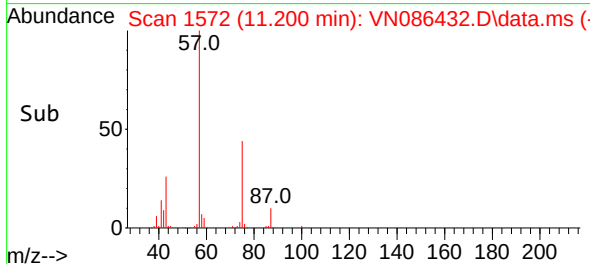
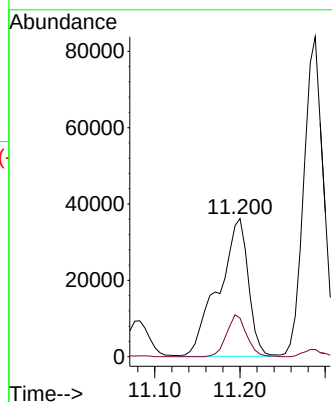
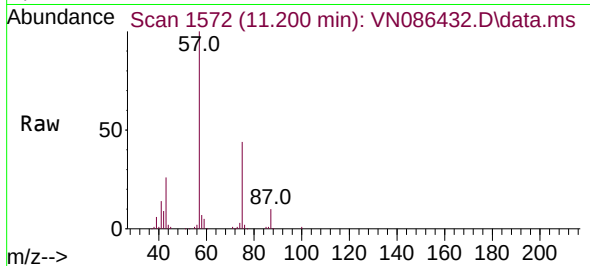




#59
2-Hexanone
Concen: 37.473 ug/l
RT: 11.200 min Scan# 1157
Delta R.T. 0.006 min
Lab File: VN086432.D
Acq: 30 Apr 2025 13:26

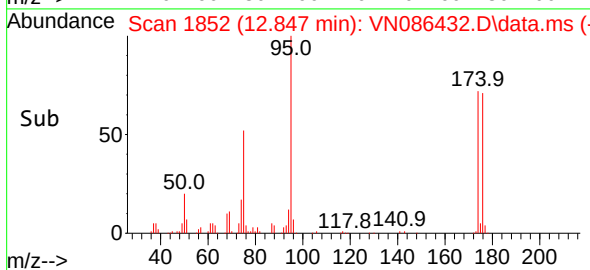
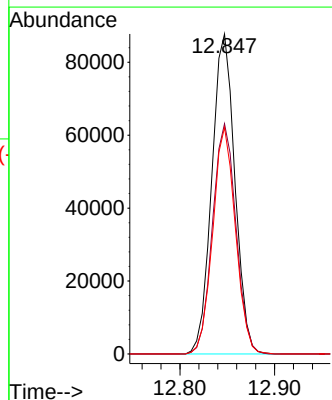
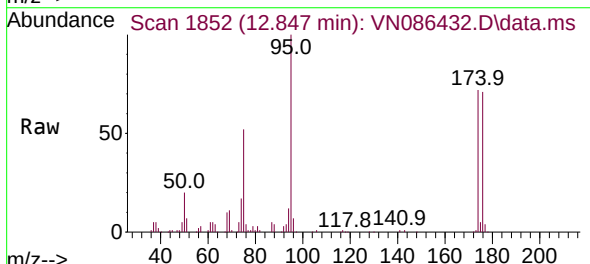
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#02

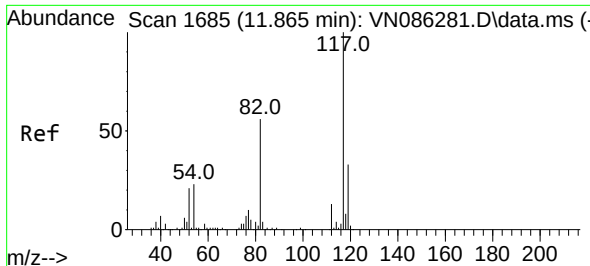
Tgt Ion: 43 Resp: 87322
Ion Ratio Lower Upper
43 100
58 20.5 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 52.129 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086432.D
Acq: 30 Apr 2025 13:26

Tgt Ion: 95 Resp: 148262
Ion Ratio Lower Upper
95 100
174 73.2 0.0 133.4
176 69.8 0.0 129.2

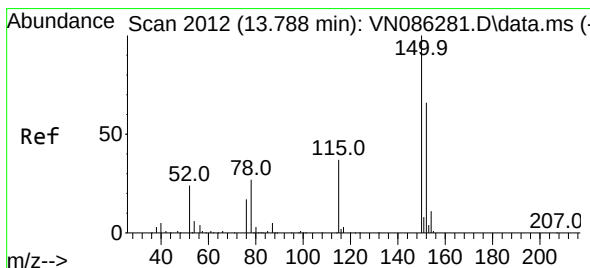
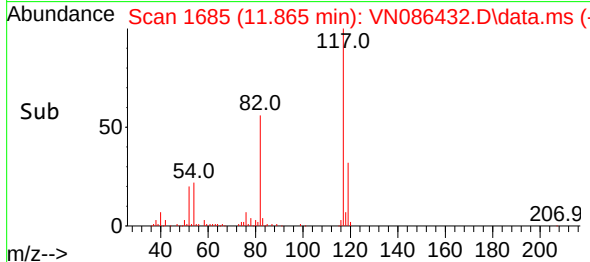
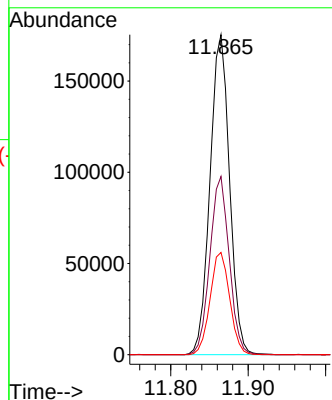
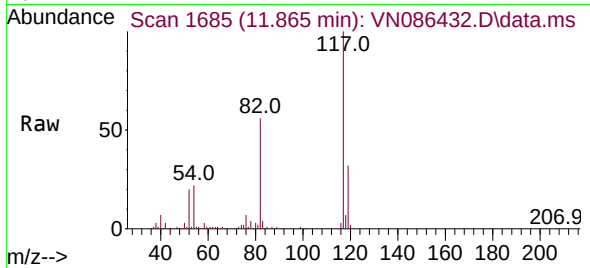




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086432.D
Acq: 30 Apr 2025 13:26

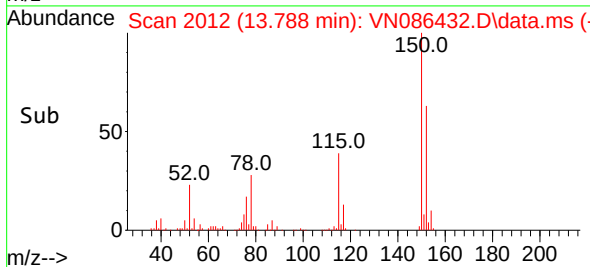
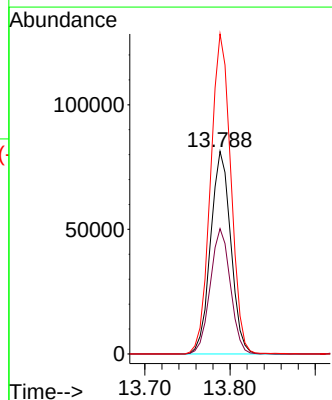
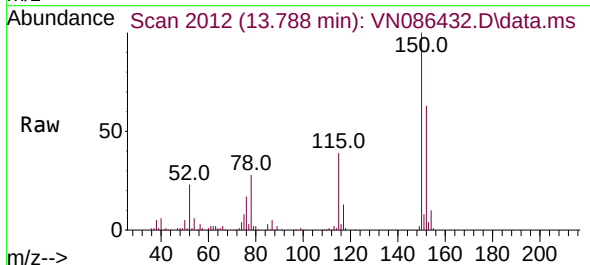
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#02

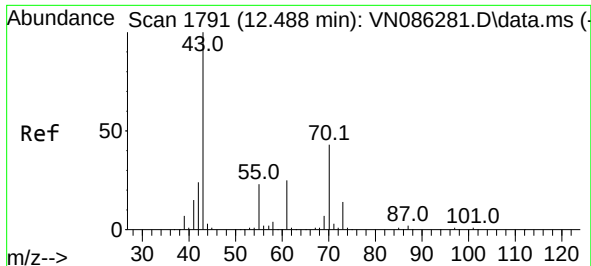
Tgt Ion:117 Resp: 307366
Ion Ratio Lower Upper
117 100
82 55.7 44.7 67.1
119 32.0 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN086432.D
Acq: 30 Apr 2025 13:26

Tgt Ion:152 Resp: 133881
Ion Ratio Lower Upper
152 100
115 61.6 31.9 95.9
150 158.7 0.0 352.0

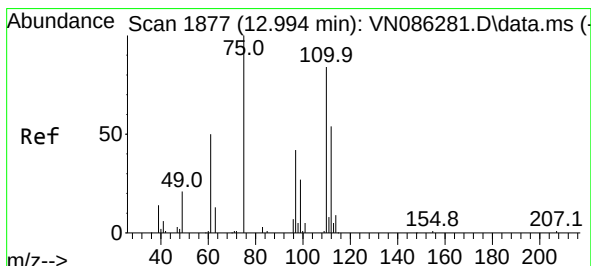
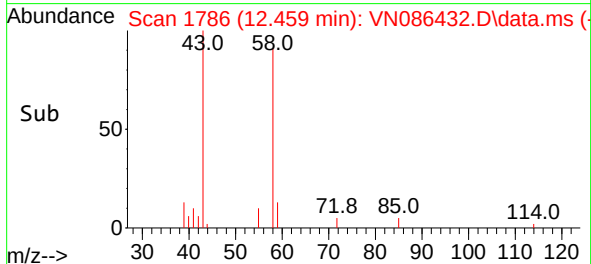
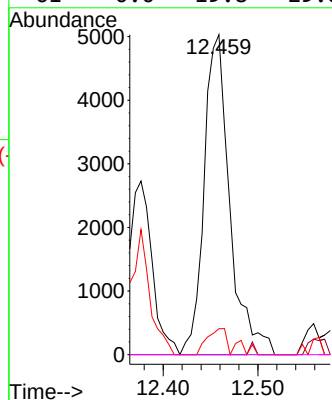
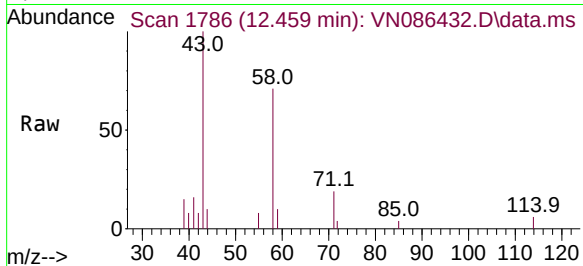




#74
N-amy1 acetate
Concen: 1.738 ug/l
RT: 12.459 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN086432.D
Acq: 30 Apr 2025 13:26

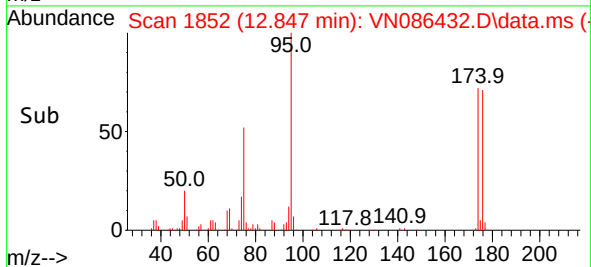
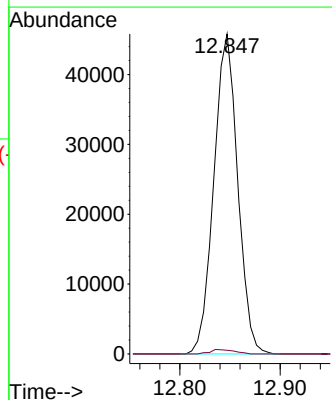
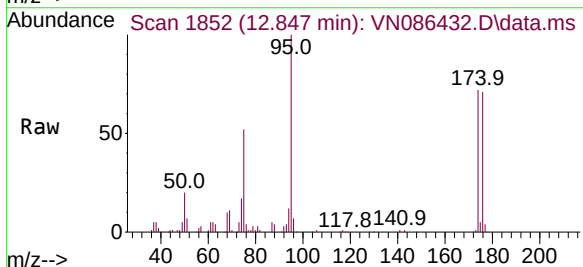
Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#02

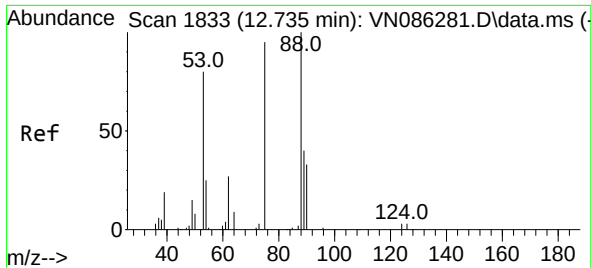
Tgt Ion: 43	Resp: 9475
Ion Ratio	Lower Upper
43 100	
70 0.0	35.0 52.4#
55 6.6	19.0 28.4#
61 0.0	19.8 29.8#



#76
1,2,3-Trichloropropane
Concen: 23.961 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086432.D
Acq: 30 Apr 2025 13:26

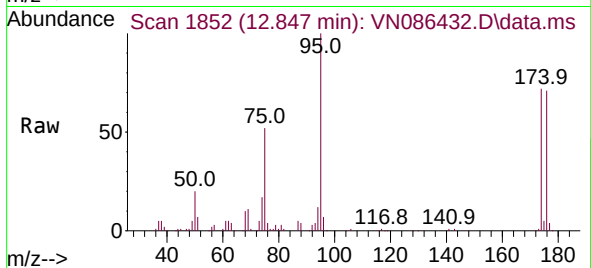
Tgt Ion: 75	Resp: 75702
Ion Ratio	Lower Upper
75 100	
77 1.4	98.8 296.4#





#81
trans-1,4-Dichloro-2-butene
Concen: 57.545 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086432.D
Acq: 30 Apr 2025 13:26

Instrument :
MSVOA_N
ClientSampleId :
PB167775ZHE#02



Tgt Ion: 75 Resp: 75702
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

