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 Data File : VN086044.D
 Acq On : 21 Mar 2025 16:54
 Operator : JC\MD
 Sample : PB167234ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#04

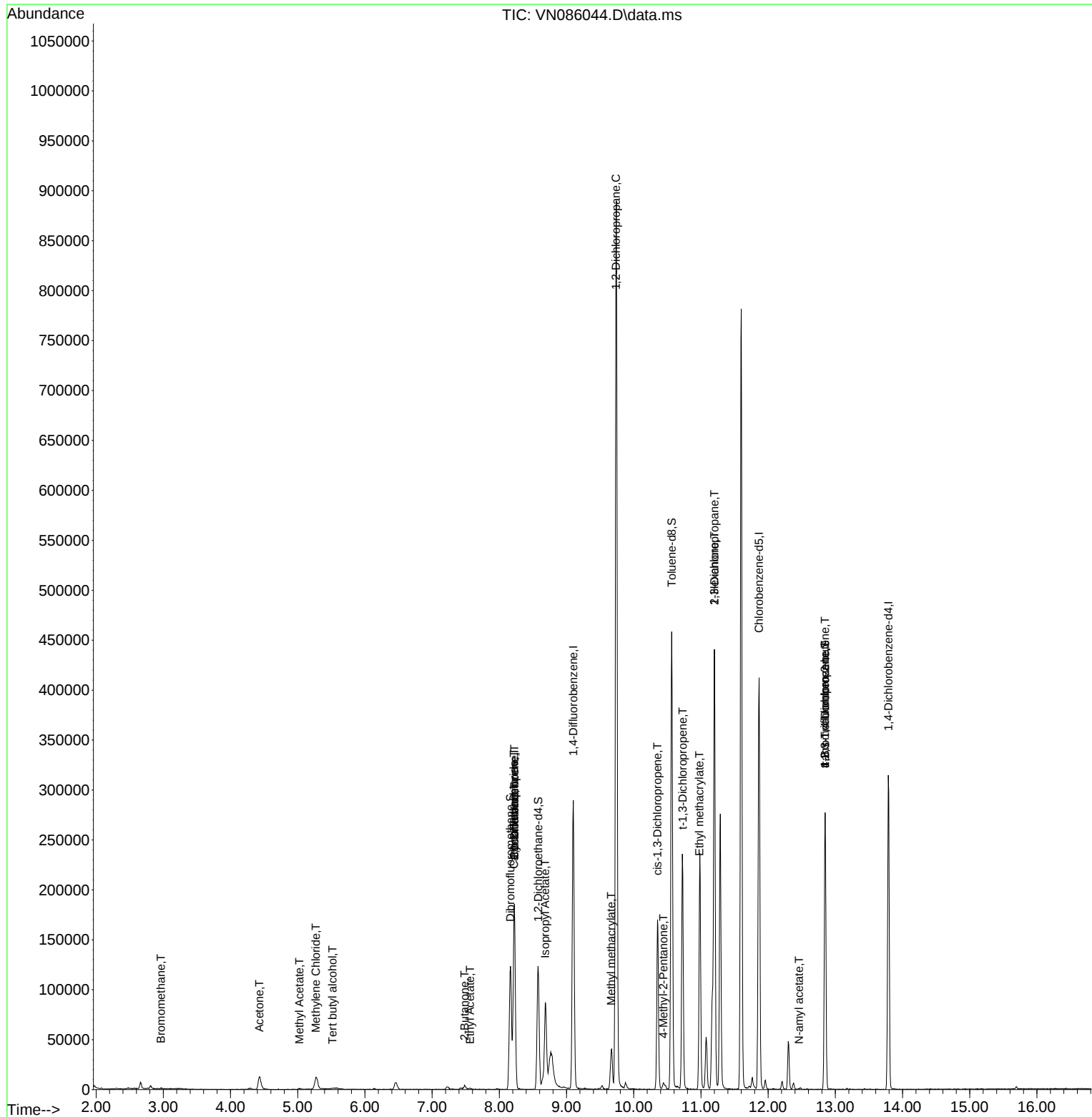
Quant Time: Mar 21 23:00:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

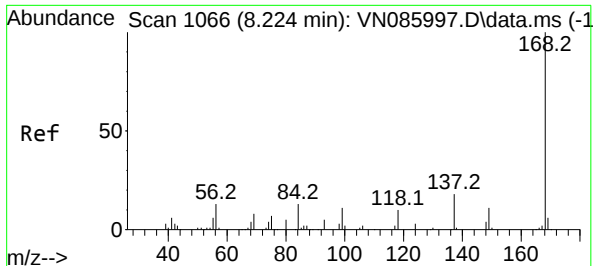
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	131907	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	247060	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	243589	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	89361	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	106159	58.773	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 117.540%		
35) Dibromofluoromethane	8.165	113	88362	51.241	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 102.480%		
50) Toluene-d8	10.565	98	319413	51.036	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 102.080%		
62) 4-Bromofluorobenzene	12.847	95	96964	43.443	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 86.880%		
Target Compounds						Qvalue
5) Bromomethane	2.965	94	289	0.271	ug/l #	56
11) Tert butyl alcohol	5.518	59	1160	4.536	ug/l #	73
16) Acetone	4.430	43	24271	43.983	ug/l	98
18) Methyl Acetate	5.024	43	1506	1.103	ug/l #	54
20) Methylene Chloride	5.271	84	10469	6.485	ug/l	98
25) 2-Butanone	7.483	43	5697	7.155	ug/l	89
31) Cyclohexane	8.224	56	2853	1.268	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	10672	4.700	ug/l #	50
37) Ethyl Acetate	7.565	43	2208	1.153	ug/l #	68
38) Carbon Tetrachloride	8.218	117	14324	4.798	ug/l #	16
43) Isopropyl Acetate	8.683	43	97641	23.522	ug/l #	83
45) 1,2-Dichloropropane	9.735	63	1121	0.691	ug/l #	44
48) Methyl methacrylate	9.665	41	3031	2.213	ug/l #	29
51) 4-Methyl-2-Pentanone	10.441	43	3922	2.142	ug/l	90
53) t-1,3-Dichloropropene	10.730	75	602	0.233	ug/l #	43
54) cis-1,3-Dichloropropene	10.353	75	32268	11.818	ug/l #	69
56) Ethyl methacrylate	10.977	69	1801	1.042	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	5083	1.792	ug/l #	42
59) 2-Hexanone	11.200	43	45459	34.086	ug/l #	56
74) N-amyl acetate	12.459	43	421	0.206	ug/l #	35
76) 1,2,3-Trichloropropane	12.847	75	48009	23.997	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	48009	63.444	ug/l #	16

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

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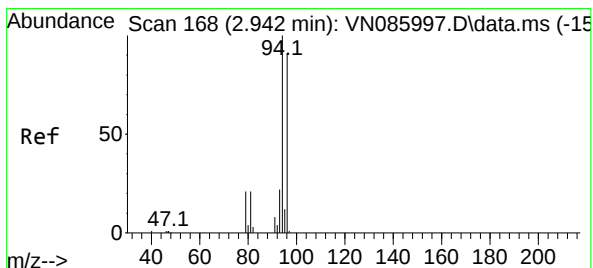
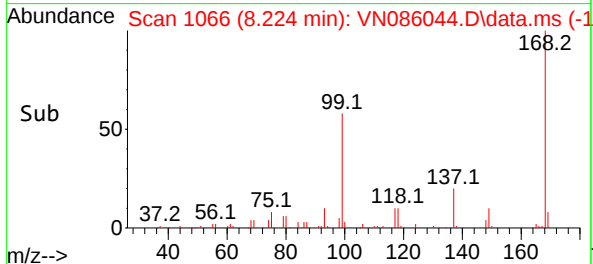
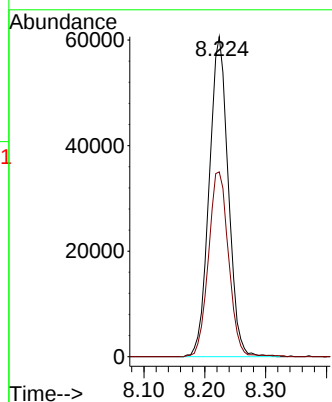
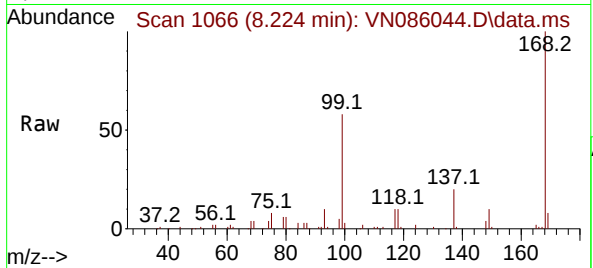




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086044.D
Acq: 21 Mar 2025 16:54

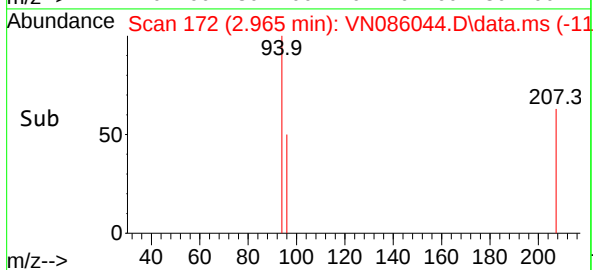
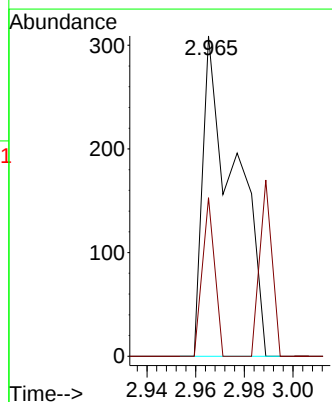
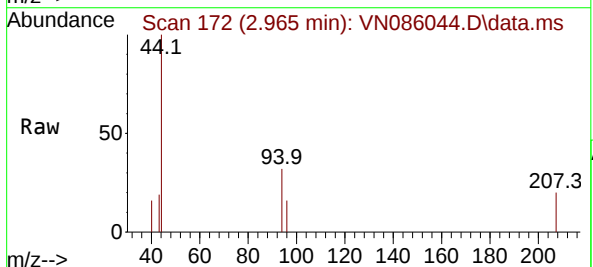
Instrument :
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ClientSampleId :
PB167234ZHE#04

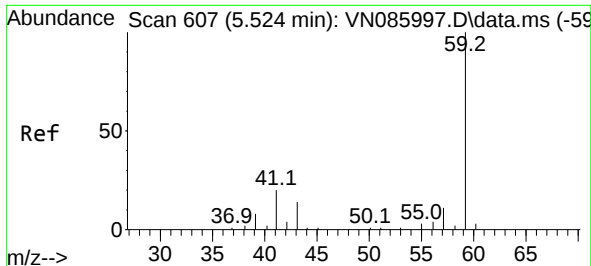
Tgt Ion:168 Resp: 131907
Ion Ratio Lower Upper
168 100
99 57.7 49.4 74.2



#5
Bromomethane
Concen: 0.271 ug/l
RT: 2.965 min Scan# 172
Delta R.T. 0.023 min
Lab File: VN086044.D
Acq: 21 Mar 2025 16:54

Tgt Ion: 94 Resp: 289
Ion Ratio Lower Upper
94 100
96 49.5 72.8 109.2#

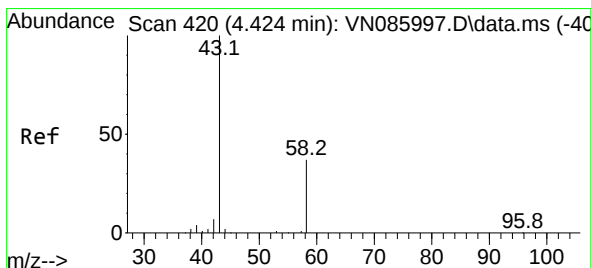
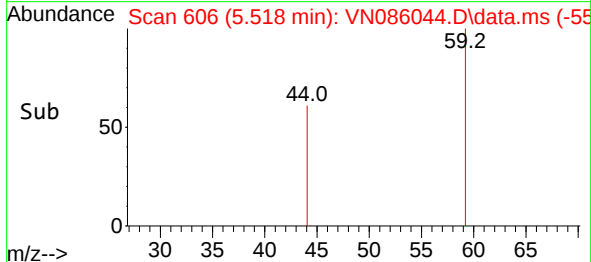
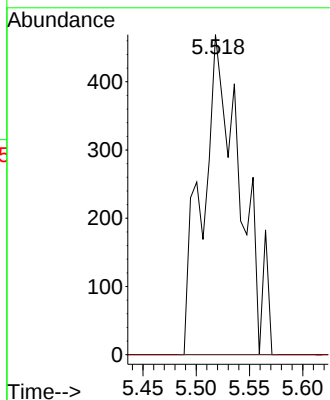
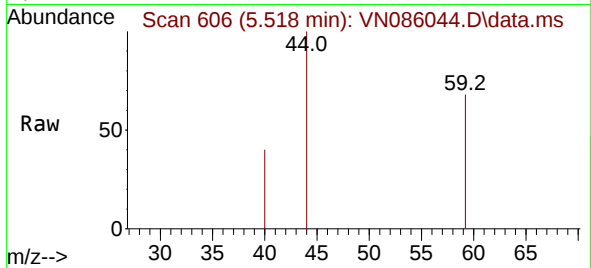




#11
Tert butyl alcohol
Concen: 4.536 ug/l
RT: 5.518 min Scan# 607
Delta R.T. -0.006 min
Lab File: VN086044.D
Acq: 21 Mar 2025 16:54

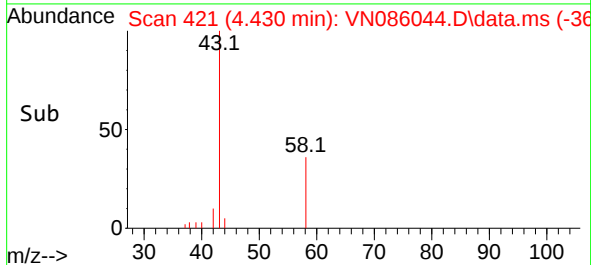
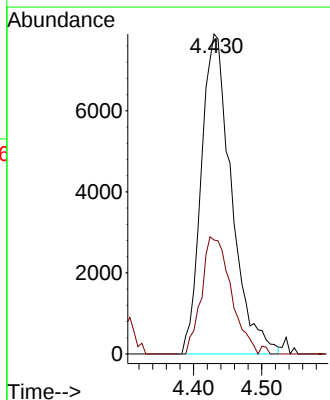
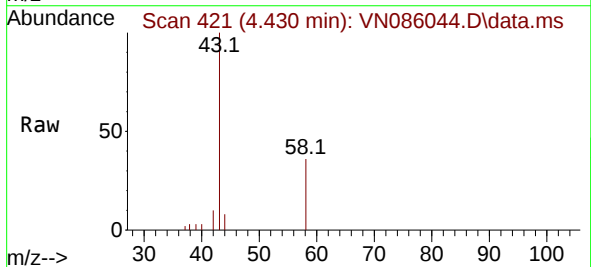
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#04

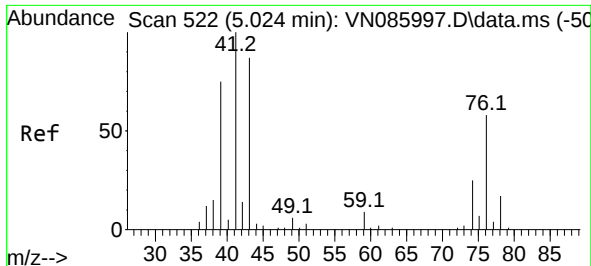
Tgt Ion: 59 Resp: 1160
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



#16
Acetone
Concen: 43.983 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086044.D
Acq: 21 Mar 2025 16:54

Tgt Ion: 43 Resp: 24271
Ion Ratio Lower Upper
43 100
58 35.6 29.4 44.2

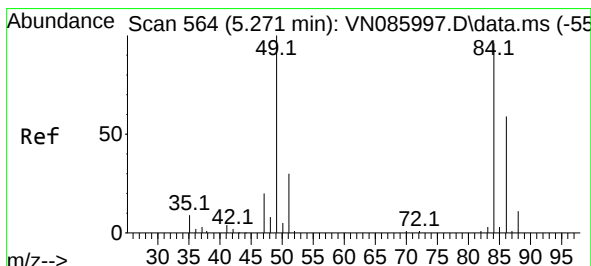
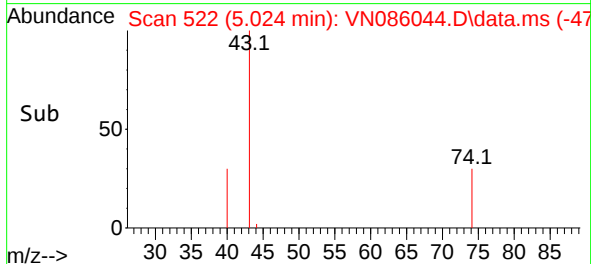
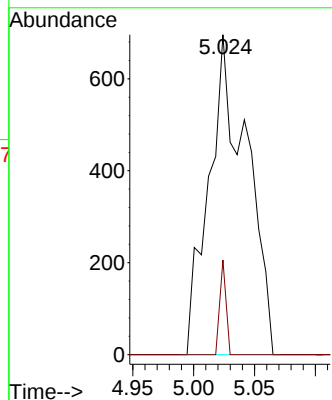
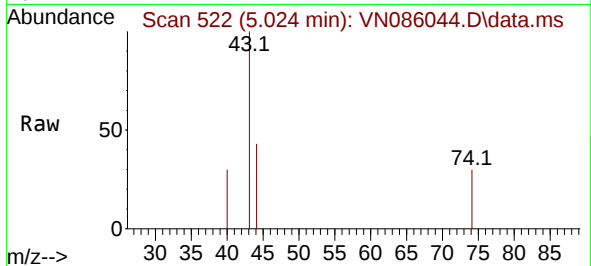




#18
Methyl Acetate
Concen: 1.103 ug/l
RT: 5.024 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086044.D
Acq: 21 Mar 2025 16:54

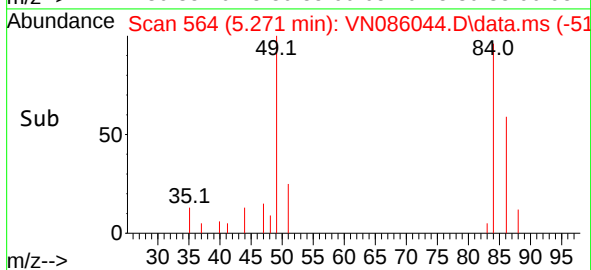
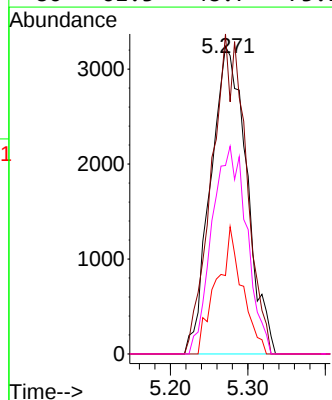
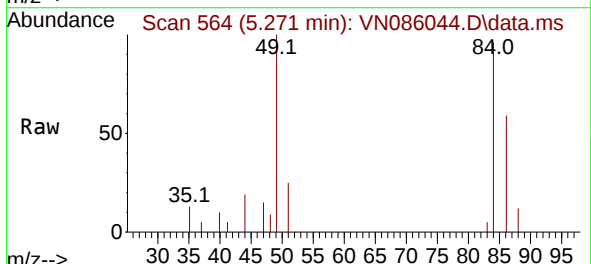
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#04

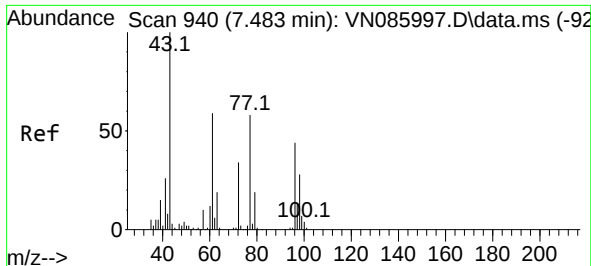
Tgt Ion: 43 Resp: 1506
Ion Ratio Lower Upper
43 100
74 4.8 23.9 35.9#



#20
Methylene Chloride
Concen: 6.485 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN086044.D
Acq: 21 Mar 2025 16:54

Tgt Ion: 84 Resp: 10469
Ion Ratio Lower Upper
84 100
49 104.0 83.3 124.9
51 25.5 24.8 37.2
86 61.3 48.7 73.1

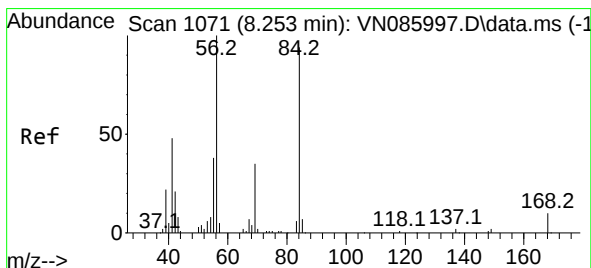
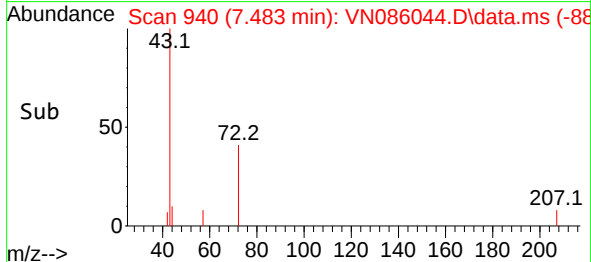
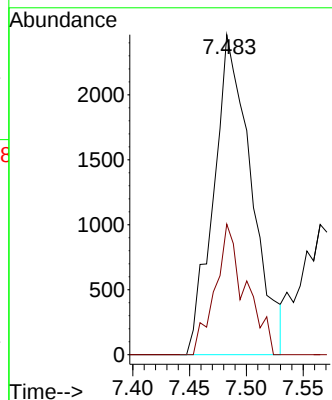
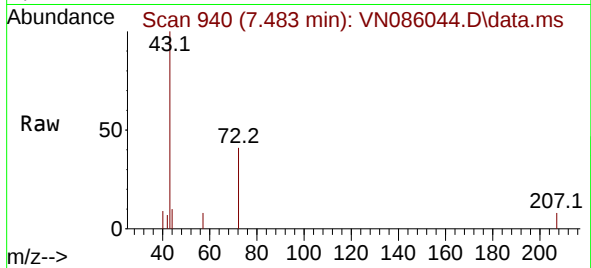




#25
2-Butanone
Concen: 7.155 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN086044.D
Acq: 21 Mar 2025 16:54

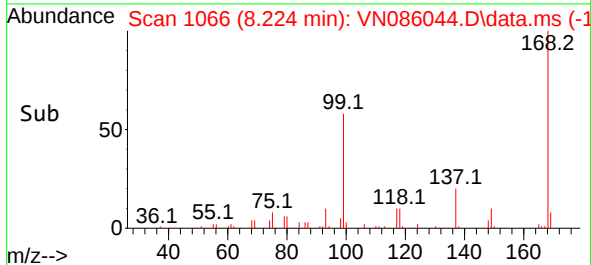
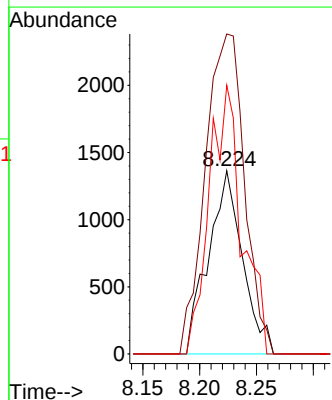
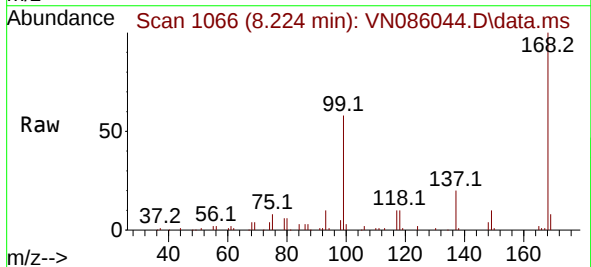
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ClientSampleId :
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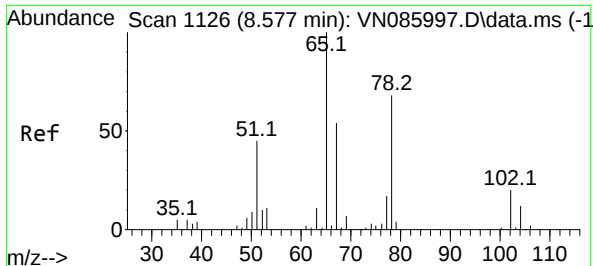
Tgt Ion: 43 Resp: 5697
Ion Ratio Lower Upper
43 100
72 40.8 27.4 41.0



#31
Cyclohexane
Concen: 1.268 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086044.D
Acq: 21 Mar 2025 16:54

Tgt Ion: 56 Resp: 2853
Ion Ratio Lower Upper
56 100
69 174.6 28.0 42.0#
84 146.6 75.0 112.6#





#33

1,2-Dichloroethane-d4

Concen: 58.773 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086044.D

Acq: 21 Mar 2025 16:54

Instrument :

MSVOA_N

ClientSampleId :

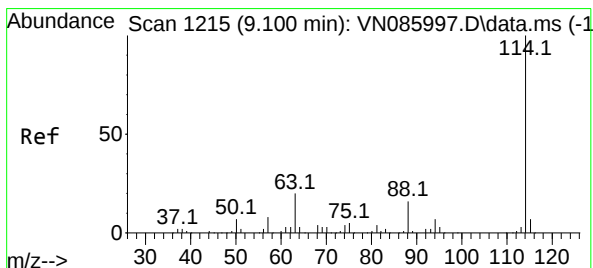
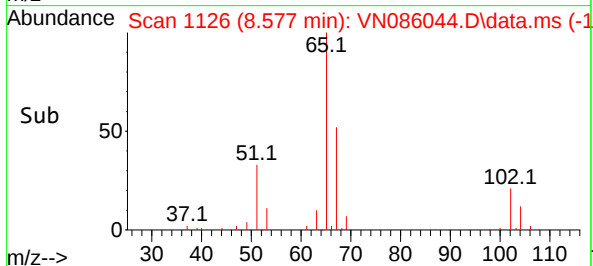
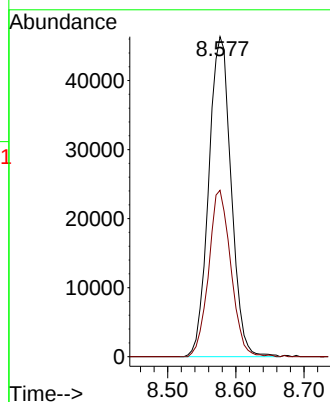
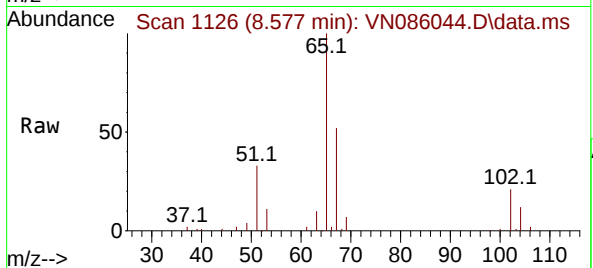
PB167234ZHE#04

Tgt Ion: 65 Resp: 106159

Ion Ratio Lower Upper

65 100

67 51.4 0.0 102.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086044.D

Acq: 21 Mar 2025 16:54

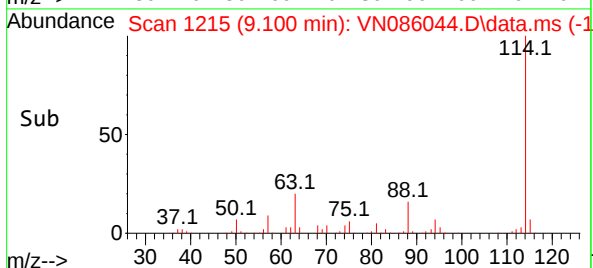
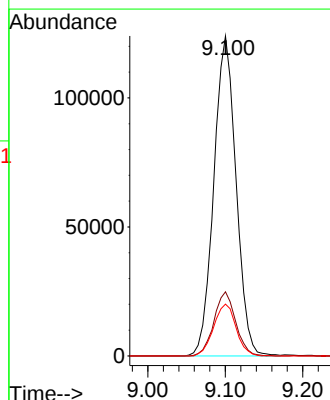
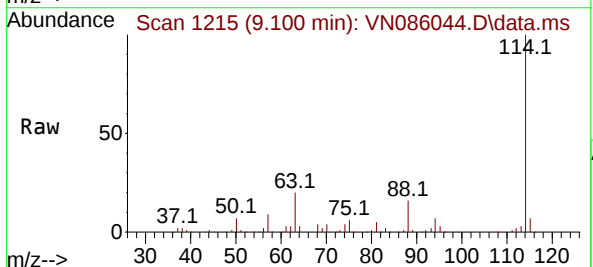
Tgt Ion: 114 Resp: 247060

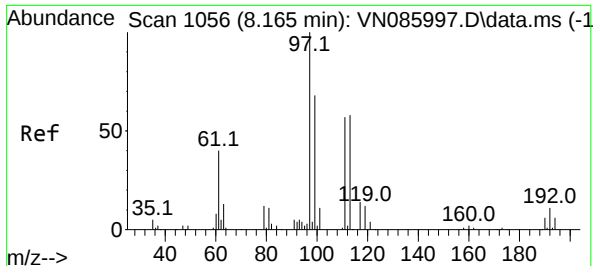
Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.6

88 16.2 0.0 32.6





#35

Dibromofluoromethane

Concen: 51.241 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086044.D

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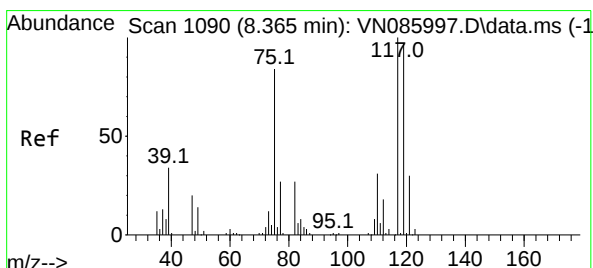
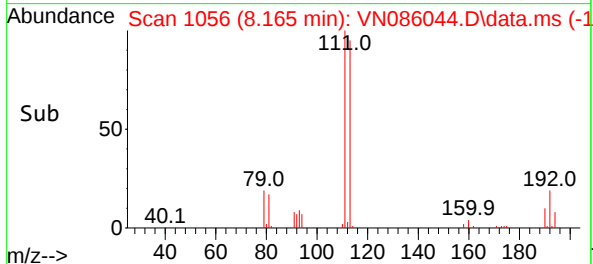
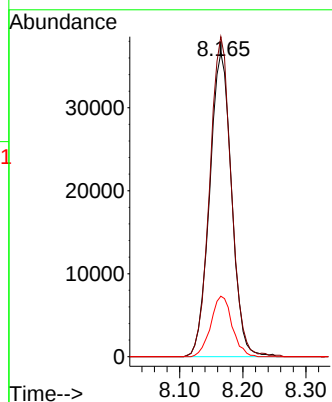
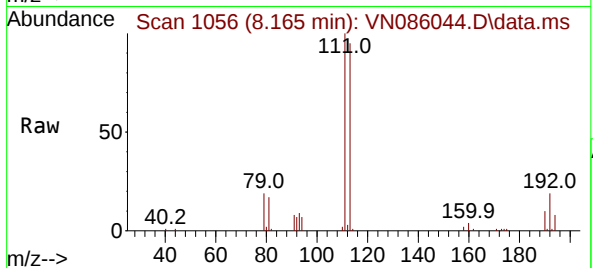
Tgt Ion:113 Resp: 88362

Ion Ratio Lower Upper

113 100

111 103.6 81.8 122.8

192 19.4 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.700 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086044.D

Acq: 21 Mar 2025 16:54

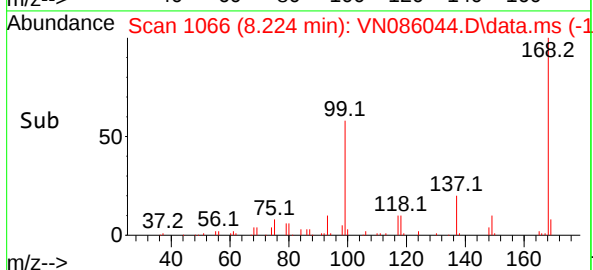
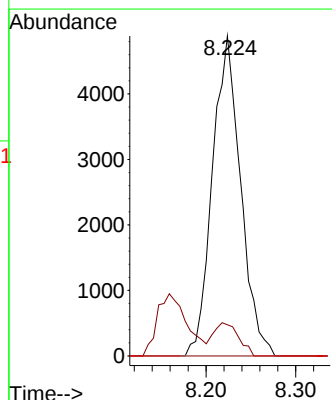
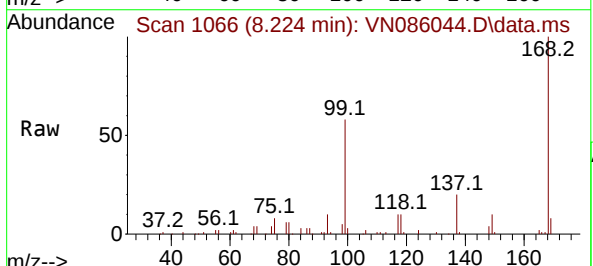
Tgt Ion: 75 Resp: 10672

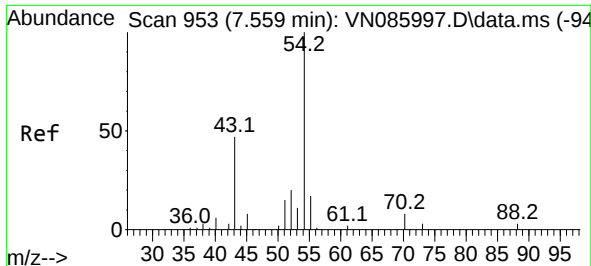
Ion Ratio Lower Upper

75 100

110 9.2 17.8 53.3#

77 0.0 25.0 37.4#

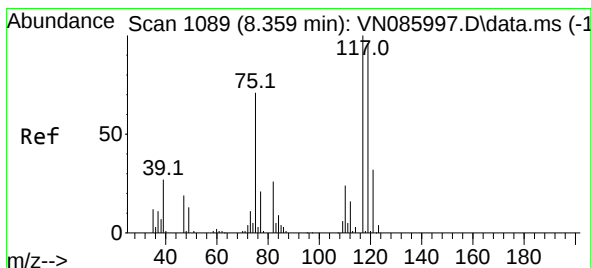
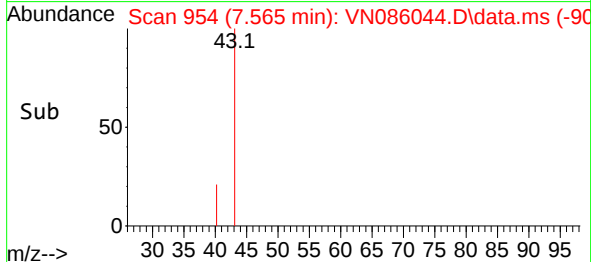
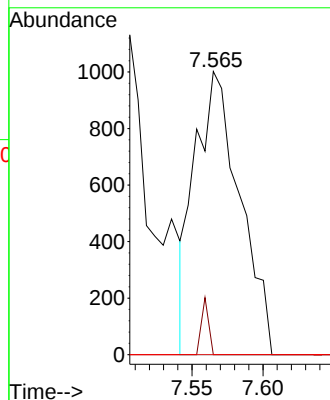
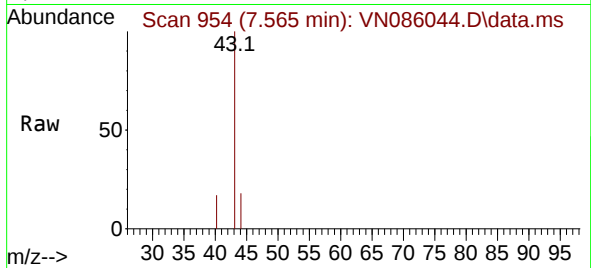




#37
Ethyl Acetate
Concen: 1.153 ug/l
RT: 7.565 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN086044.D
Acq: 21 Mar 2025 16:54

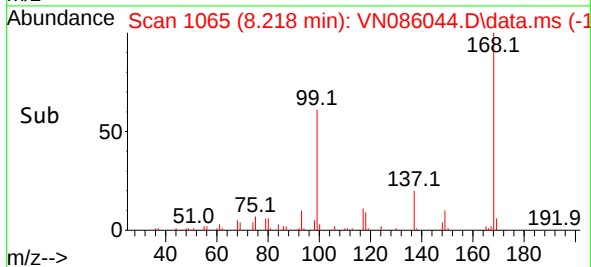
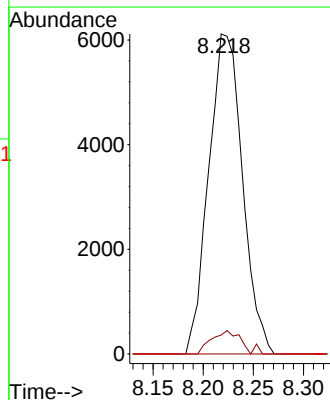
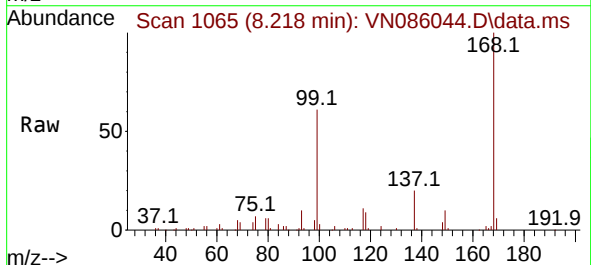
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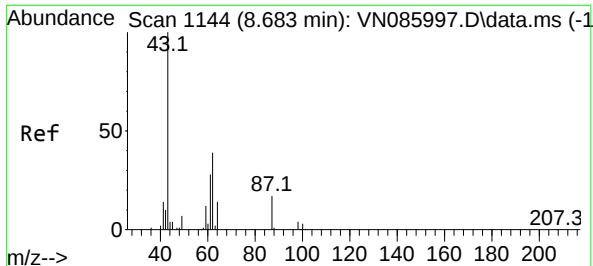
Tgt Ion: 43 Resp: 2208
Ion Ratio Lower Upper
43 100
61 3.2 13.0 19.4#
70 0.0 11.0 16.6#



#38
Carbon Tetrachloride
Concen: 4.798 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086044.D
Acq: 21 Mar 2025 16:54

Tgt Ion: 117 Resp: 14324
Ion Ratio Lower Upper
117 100
119 5.9 77.0 115.4#
121 0.0 25.6 38.4#

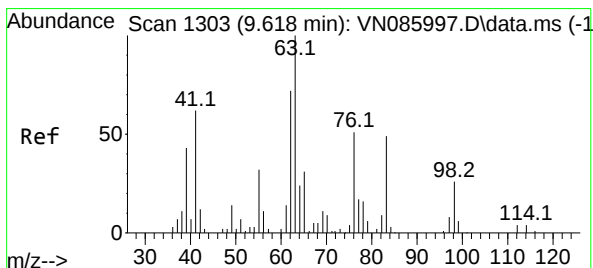
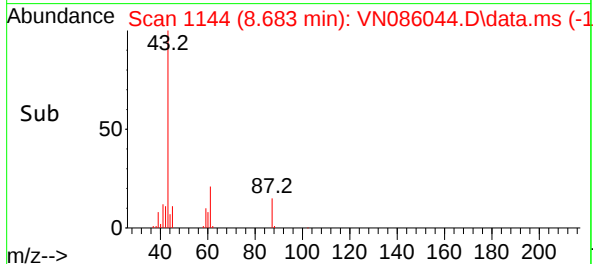
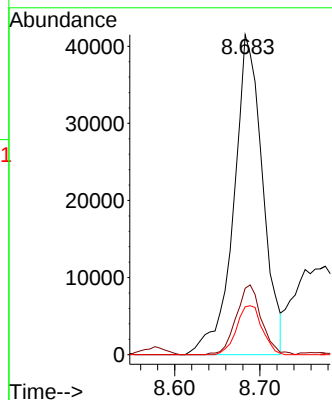
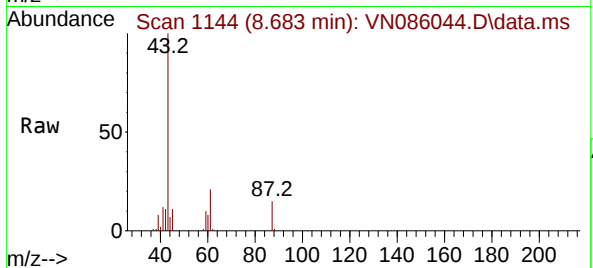




#43
Isopropyl Acetate
Concen: 23.522 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086044.D
Acq: 21 Mar 2025 16:54

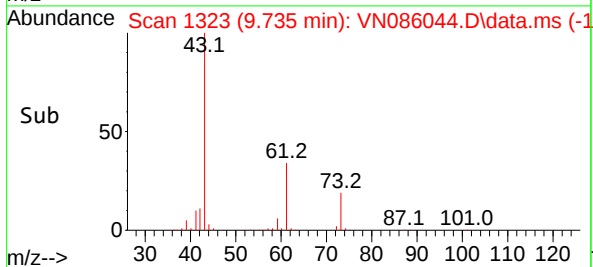
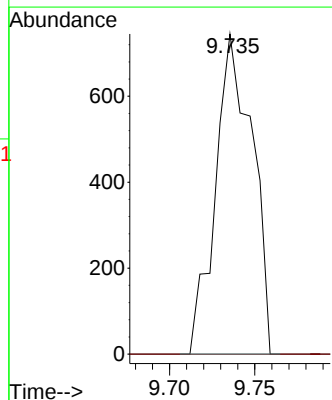
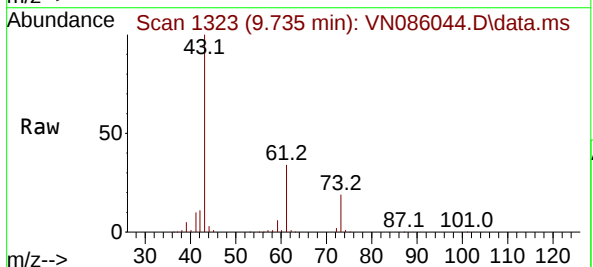
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#04

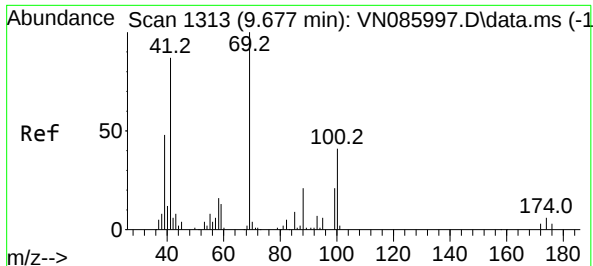
Tgt Ion: 43 Resp: 97641
Ion Ratio Lower Upper
43 100
61 19.1 25.0 37.6#
87 13.6 13.0 19.4



#45
1,2-Dichloropropane
Concen: 0.691 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN086044.D
Acq: 21 Mar 2025 16:54

Tgt Ion: 63 Resp: 1121
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#





#48

Methyl methacrylate

Concen: 2.213 ug/l

RT: 9.665 min Scan# 11

Delta R.T. -0.012 min

Lab File: VN086044.D

Acq: 21 Mar 2025 16:54

Instrument :

MSVOA_N

ClientSampleId :

PB167234ZHE#04

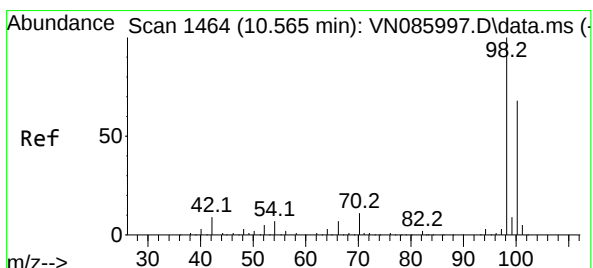
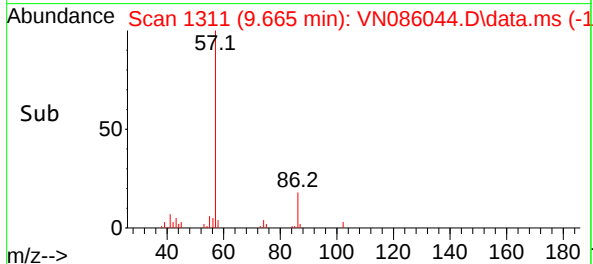
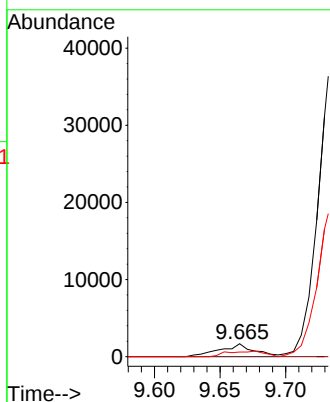
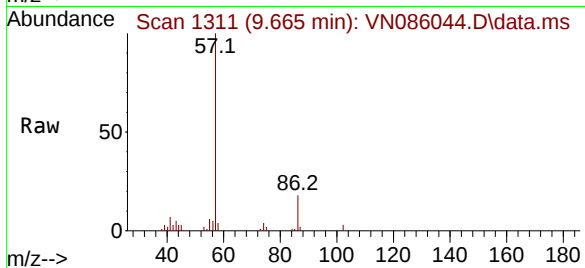
Tgt Ion: 41 Resp: 3031

Ion Ratio Lower Upper

41 100

69 0.0 83.1 124.7#

39 46.9 45.6 68.4



#50

Toluene-d8

Concen: 51.036 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086044.D

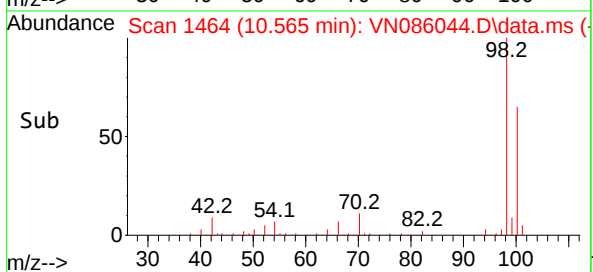
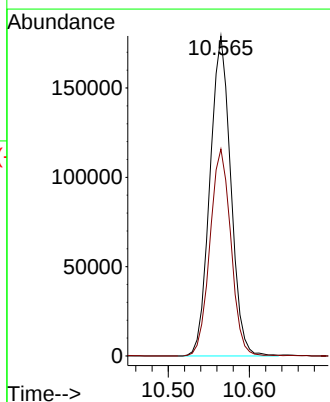
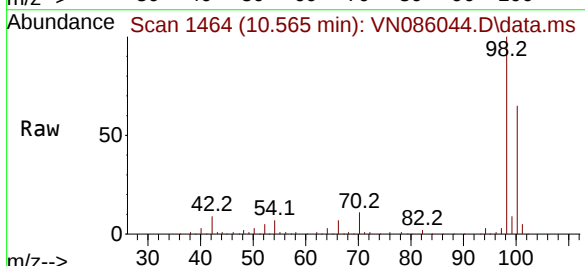
Acq: 21 Mar 2025 16:54

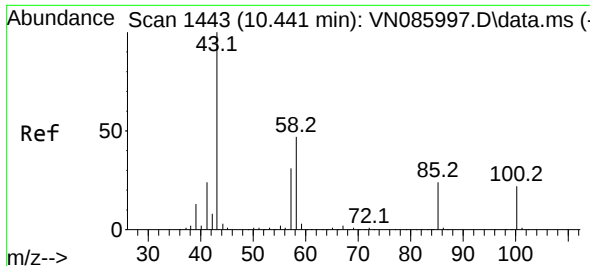
Tgt Ion: 98 Resp: 319413

Ion Ratio Lower Upper

98 100

100 65.1 53.1 79.7

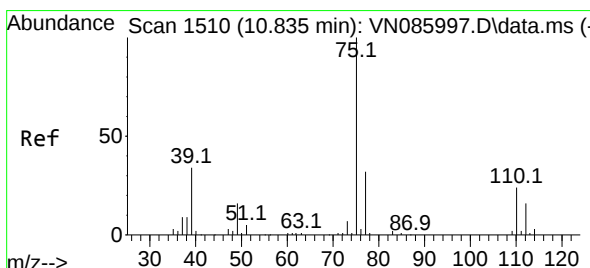
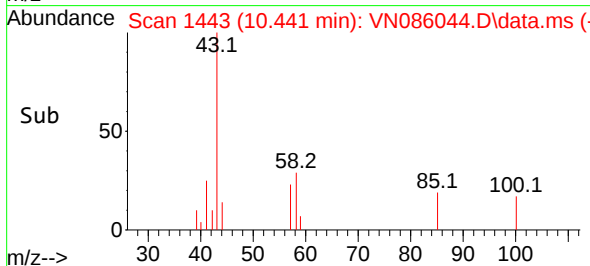
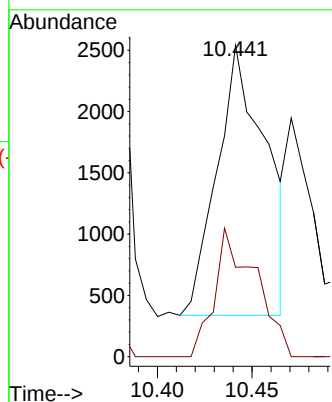
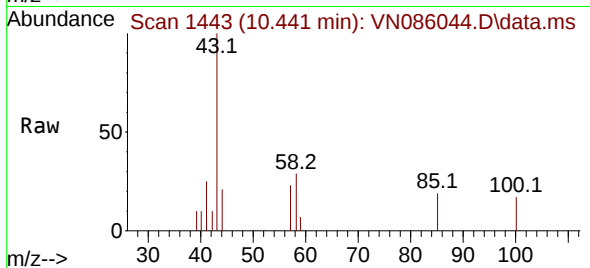




#51
4-Methyl-2-Pentanone
Concen: 2.142 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086044.D
Acq: 21 Mar 2025 16:54

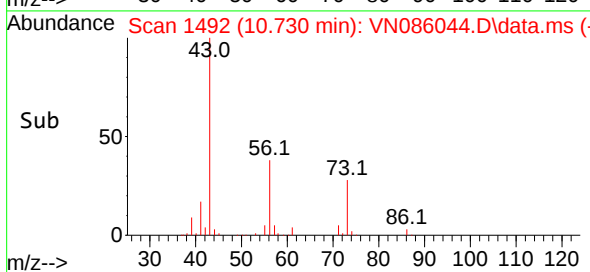
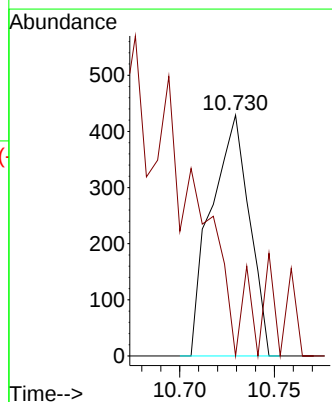
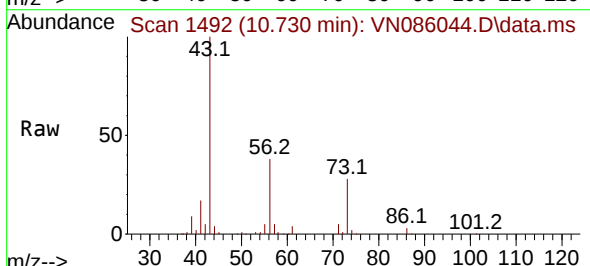
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#04

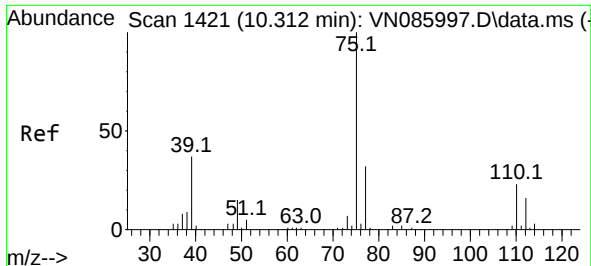
Tgt Ion: 43 Resp: 3922
Ion Ratio Lower Upper
43 100
58 40.2 37.4 56.0



#53
t-1,3-Dichloropropene
Concen: 0.233 ug/l
RT: 10.730 min Scan# 1492
Delta R.T. -0.106 min
Lab File: VN086044.D
Acq: 21 Mar 2025 16:54

Tgt Ion: 75 Resp: 602
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#

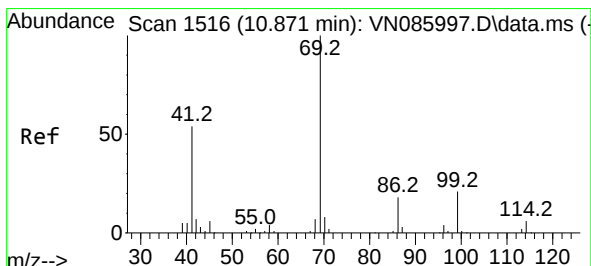
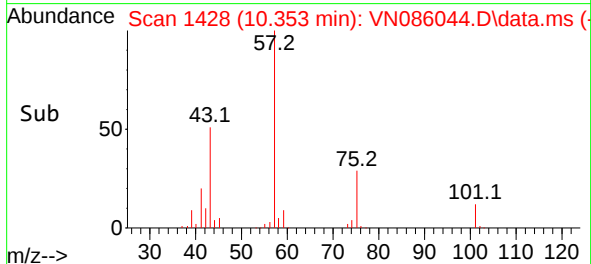
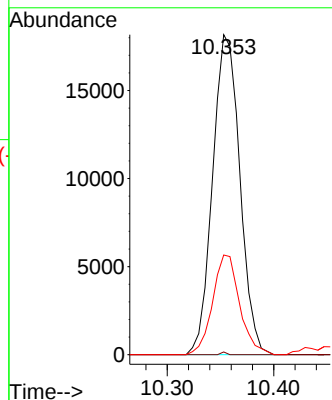
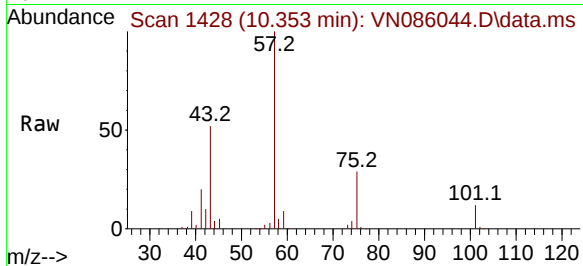




#54
 cis-1,3-Dichloropropene
 Concen: 11.818 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN086044.D
 Acq: 21 Mar 2025 16:54

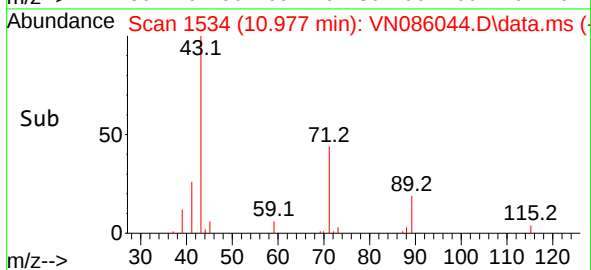
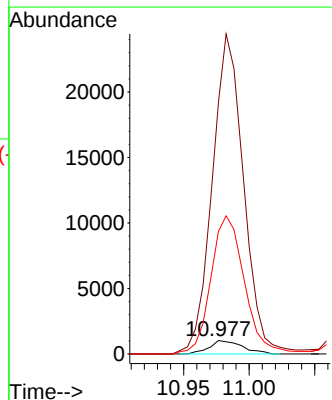
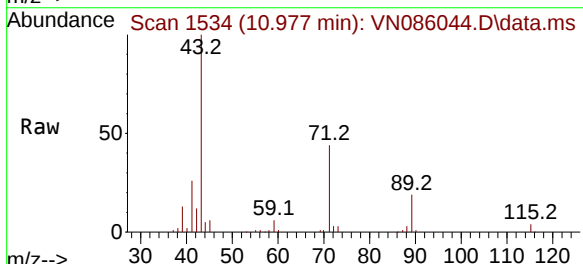
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#04

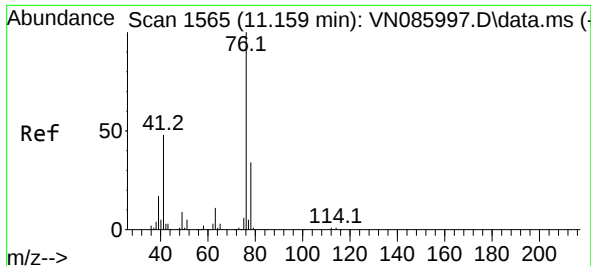
Tgt Ion: 75 Resp: 32268
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.3 37.9#
 39 31.1 29.6 44.4



#56
 Ethyl methacrylate
 Concen: 1.042 ug/l
 RT: 10.977 min Scan# 1534
 Delta R.T. 0.106 min
 Lab File: VN086044.D
 Acq: 21 Mar 2025 16:54

Tgt Ion: 69 Resp: 1801
 Ion Ratio Lower Upper
 69 100
 41 2261.4 41.6 62.4#
 39 1041.7 21.8 32.8#





#57

1,3-Dichloropropane

Concen: 1.792 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086044.D

Acq: 21 Mar 2025 16:54

Instrument :

MSVOA_N

ClientSampleId :

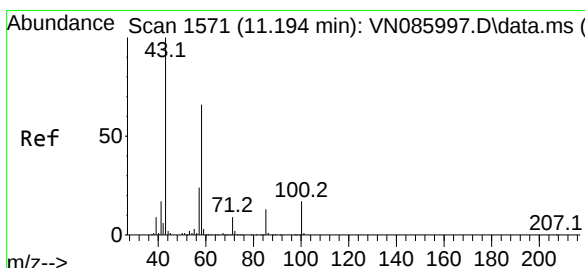
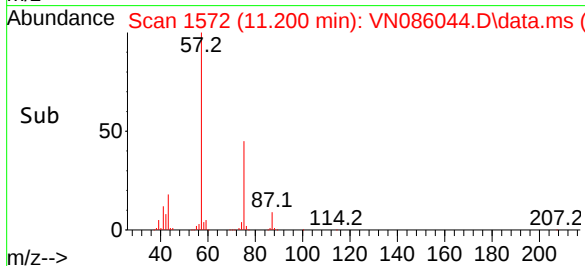
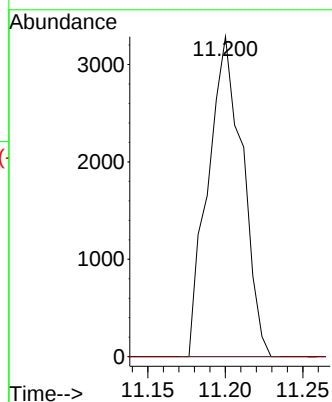
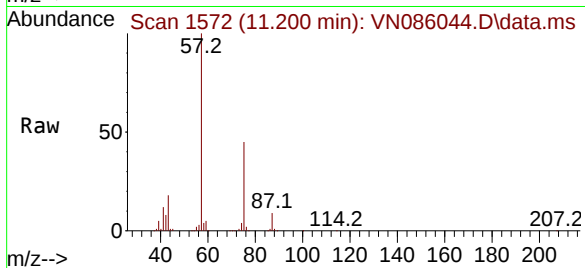
PB167234ZHE#04

Tgt Ion: 76 Resp: 5083

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 34.086 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086044.D

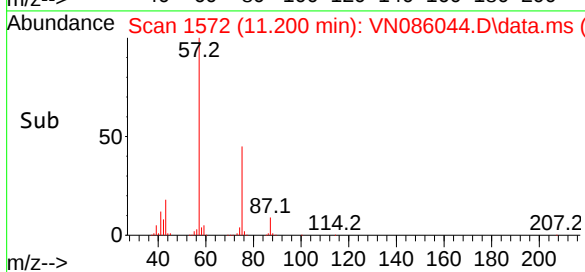
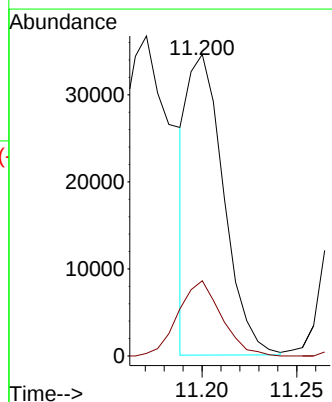
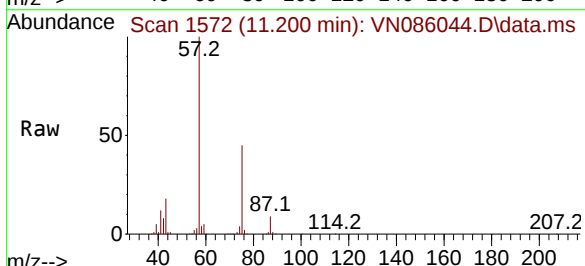
Acq: 21 Mar 2025 16:54

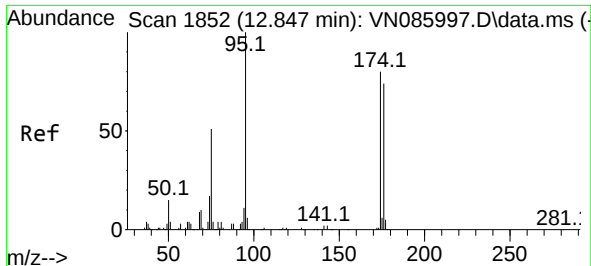
Tgt Ion: 43 Resp: 45459

Ion Ratio Lower Upper

43 100

58 30.3 32.4 97.2#

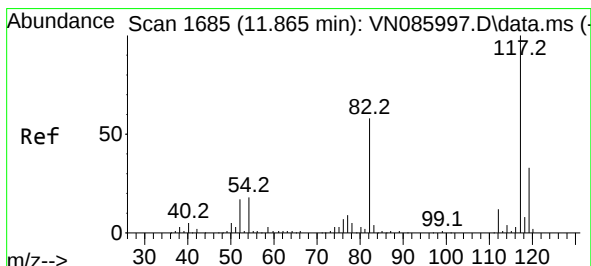
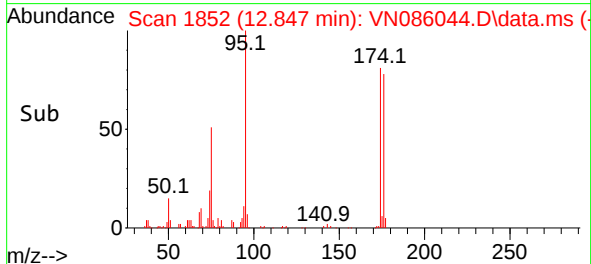
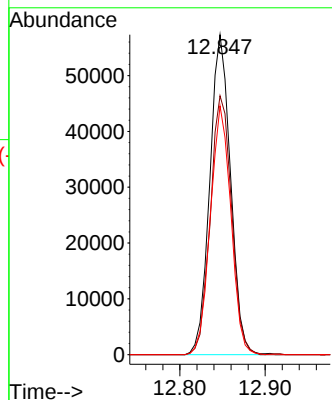
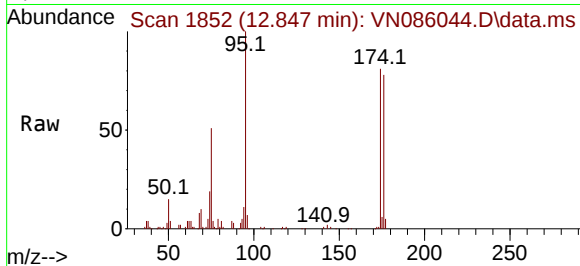




#62
4-Bromofluorobenzene
Concen: 43.443 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086044.D
Acq: 21 Mar 2025 16:54

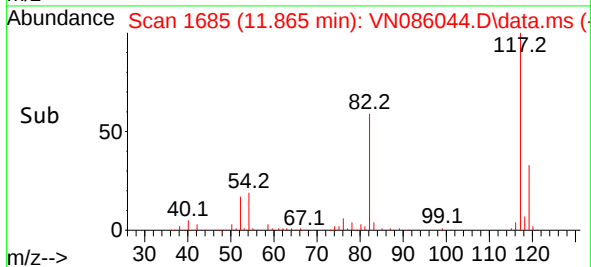
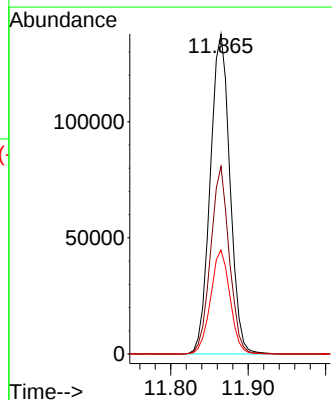
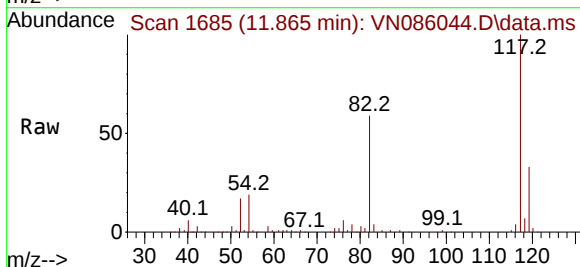
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#04

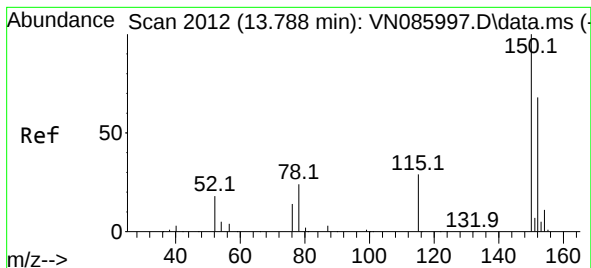
Tgt Ion:	95	Resp:	96964
Ion	Ratio	Lower	Upper
95	100		
174	83.0	0.0	156.8
176	77.0	0.0	152.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086044.D
Acq: 21 Mar 2025 16:54

Tgt Ion:	117	Resp:	243589
Ion	Ratio	Lower	Upper
117	100		
82	58.6	46.7	70.1
119	32.5	26.5	39.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN086044.D

Acq: 21 Mar 2025 16:54

Instrument :

MSVOA_N

ClientSampleId :

PB167234ZHE#04

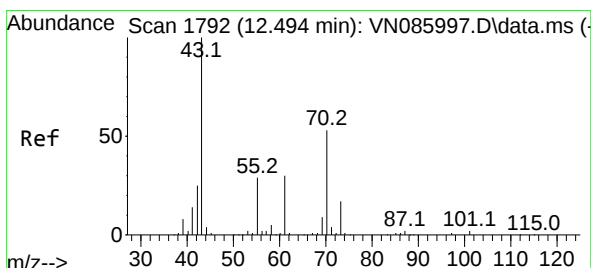
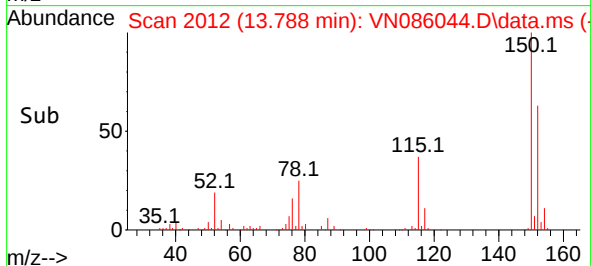
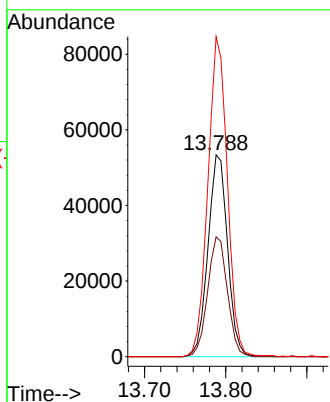
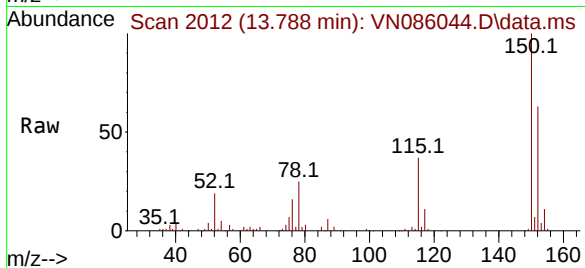
Tgt Ion:152 Resp: 89361

Ion Ratio Lower Upper

152 100

115 59.9 31.1 93.2

150 157.7 0.0 359.6



#74

N-ethyl acetate

Concen: 0.206 ug/l

RT: 12.459 min Scan# 1786

Delta R.T. -0.035 min

Lab File: VN086044.D

Acq: 21 Mar 2025 16:54

Tgt Ion: 43 Resp: 421

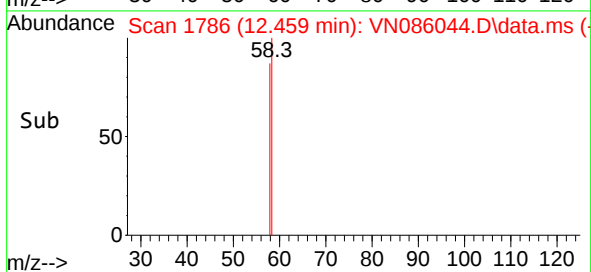
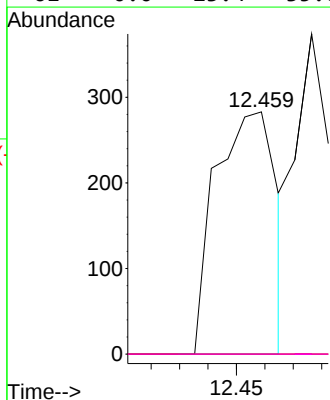
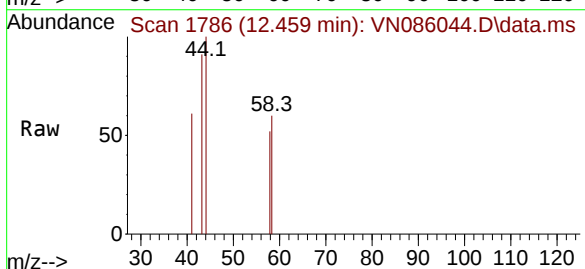
Ion Ratio Lower Upper

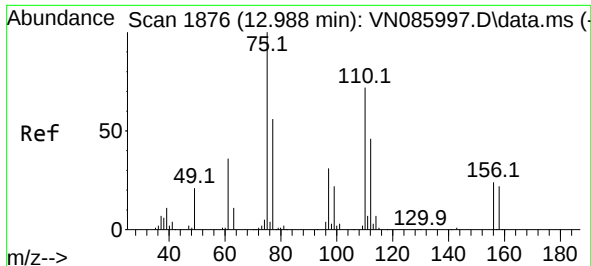
43 100

70 0.0 43.0 64.4#

55 0.0 23.8 35.8#

61 0.0 23.4 35.0#

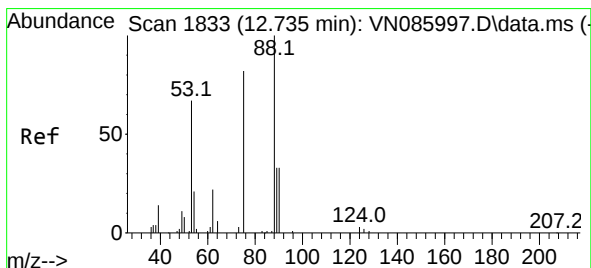
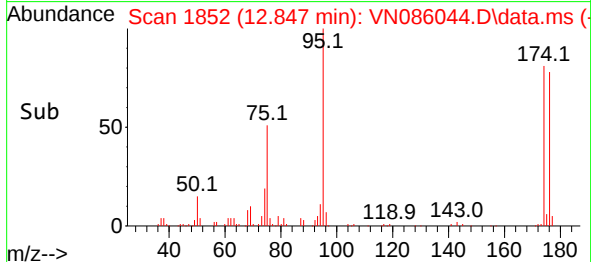
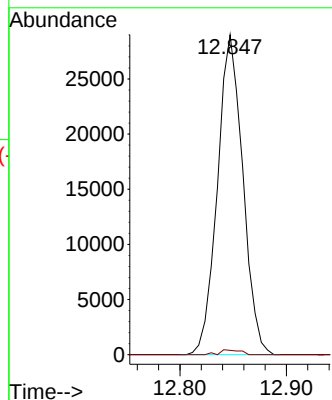
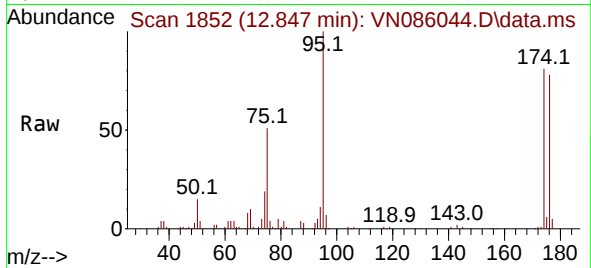




#76
1,2,3-Trichloropropane
Concen: 23.997 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086044.D
Acq: 21 Mar 2025 16:54

Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#04

Tgt Ion: 75 Resp: 48009
Ion Ratio Lower Upper
75 100
77 1.2 83.7 251.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 63.444 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086044.D
Acq: 21 Mar 2025 16:54

Tgt Ion: 75 Resp: 48009
Ion Ratio Lower Upper
75 100
53 0.1 66.0 99.0#
89 0.0 36.9 55.3#

