

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032125\
 Data File : VN086042.D
 Acq On : 21 Mar 2025 16:05
 Operator : JC\MD
 Sample : PB167234ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#02

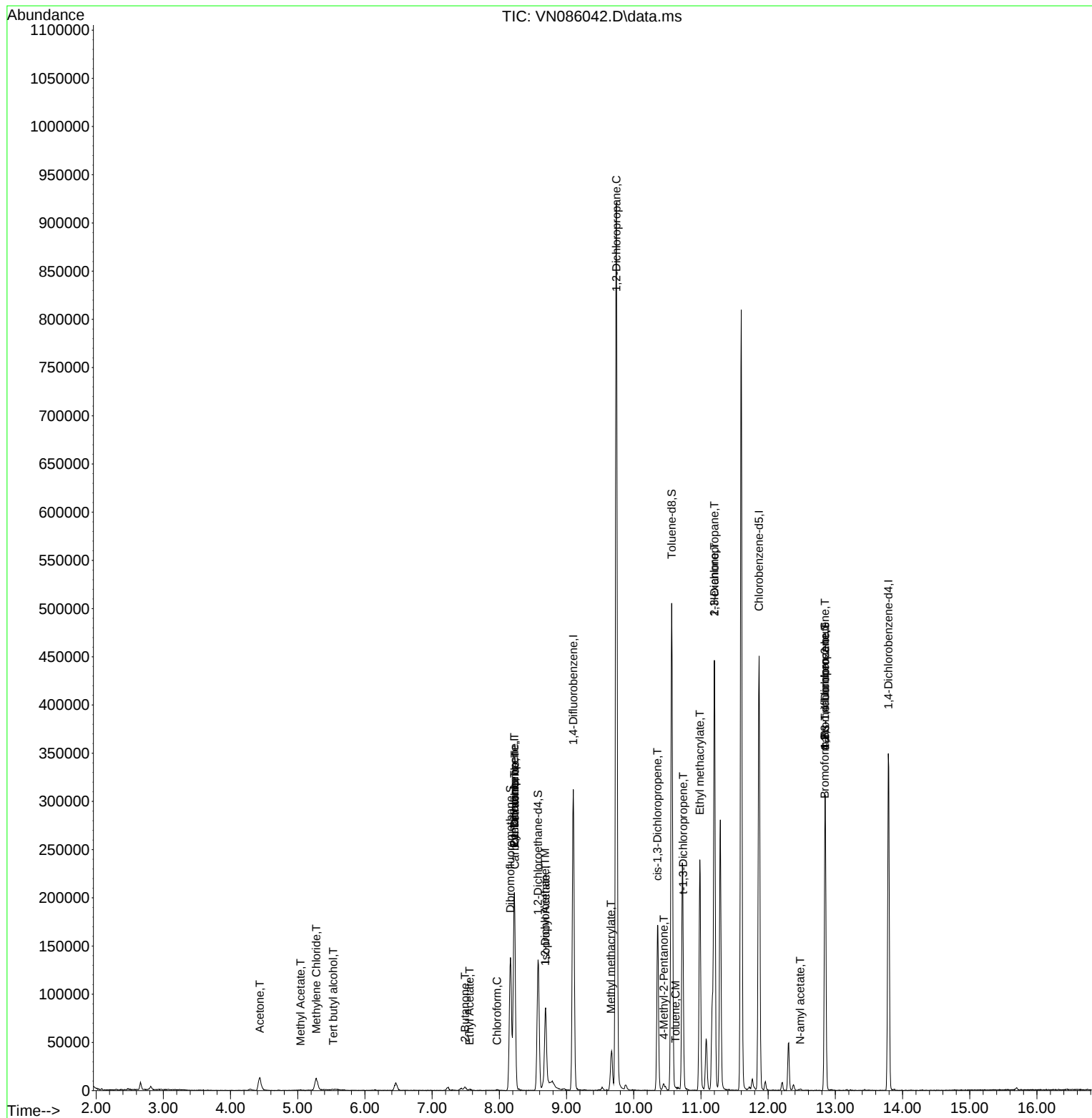
Quant Time: Mar 21 22:59:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

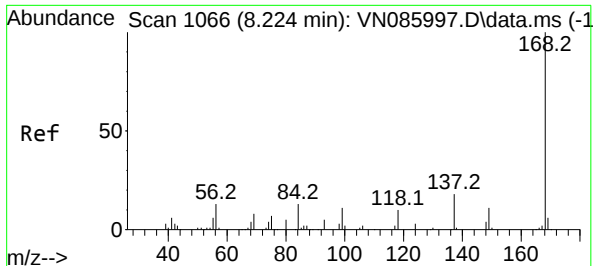
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	147870	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	273541	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	266254	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	99439	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	116089	57.332	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 114.660%	
35) Dibromofluoromethane	8.165	113	99290	52.004	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 104.000%	
50) Toluene-d8	10.565	98	359290	51.850	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 103.700%	
62) 4-Bromofluorobenzene	12.847	95	105752	42.793	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 85.580%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.530	59	708	2.470	ug/l #	73
16) Acetone	4.436	43	25029	40.460	ug/l	92
18) Methyl Acetate	5.042	43	1486	0.971	ug/l #	51
20) Methylene Chloride	5.277	84	10506	5.805	ug/l	96
25) 2-Butanone	7.489	43	6100	6.834	ug/l	92
30) Chloroform	7.965	83	829	0.253	ug/l	87
31) Cyclohexane	8.224	56	2856	1.132	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	11558	4.597	ug/l #	48
37) Ethyl Acetate	7.559	43	2372	1.118	ug/l #	64
38) Carbon Tetrachloride	8.230	117	15776	4.773	ug/l #	17
42) 1,2-Dichloroethane	8.683	62	618	0.225	ug/l #	74
43) Isopropyl Acetate	8.688	43	95096	20.691	ug/l #	86
45) 1,2-Dichloropropane	9.741	63	1471	0.819	ug/l #	44
48) Methyl methacrylate	9.659	41	2777	1.831	ug/l #	30
51) 4-Methyl-2-Pentanone	10.447	43	4651	2.295	ug/l	92
52) Toluene	10.624	92	1034	0.213	ug/l	92
53) t-1,3-Dichloropropene	10.735	75	636	0.222	ug/l #	43
54) cis-1,3-Dichloropropene	10.353	75	32547	10.766	ug/l #	66
56) Ethyl methacrylate	10.982	69	1857	0.983	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	4762	1.517	ug/l #	42
59) 2-Hexanone	11.200	43	48924	33.133	ug/l #	54
71) Bromoform	12.841	173	513	0.271	ug/l #	1
74) N-amyl acetate	12.476	43	1223	0.538	ug/l #	35
76) 1,2,3-Trichloropropane	12.847	75	54104	24.303	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	54104	64.252	ug/l #	16

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

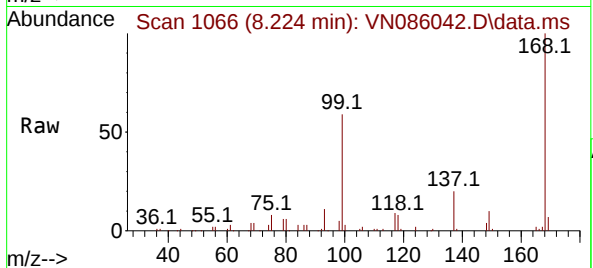
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Quant Title : SW846 8260
QLast Update : Wed Mar 19 03:20:56 2025
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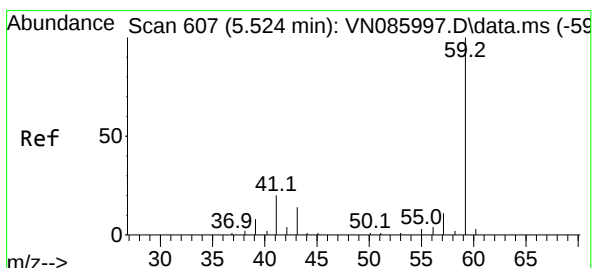
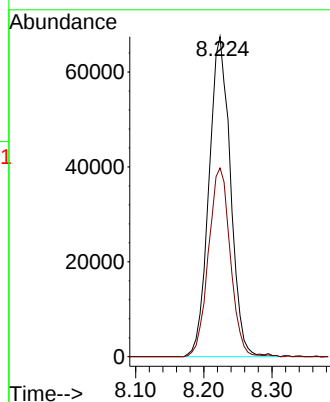
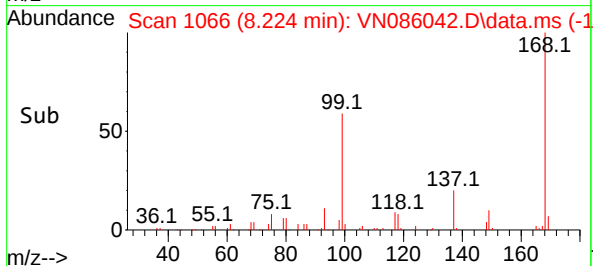


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086042.D
Acq: 21 Mar 2025 16:05

Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#02

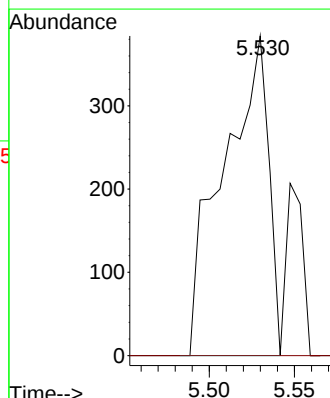
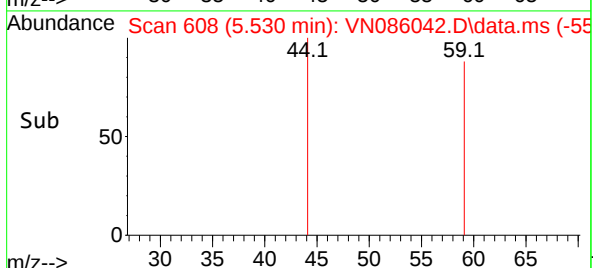
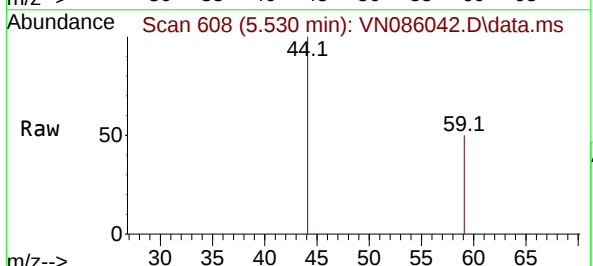


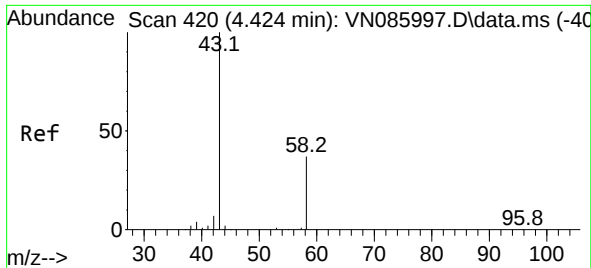
Tgt Ion:168 Resp: 147870
Ion Ratio Lower Upper
168 100
99 59.0 49.4 74.2



#11
Tert butyl alcohol
Concen: 2.470 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.006 min
Lab File: VN086042.D
Acq: 21 Mar 2025 16:05

Tgt Ion: 59 Resp: 708
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#





#16

Acetone

Concen: 40.460 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN086042.D

Acq: 21 Mar 2025 16:05

Instrument :

MSVOA_N

ClientSampleId :

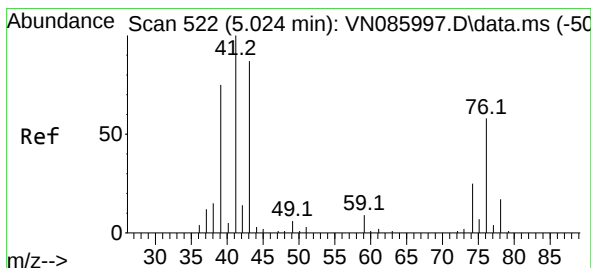
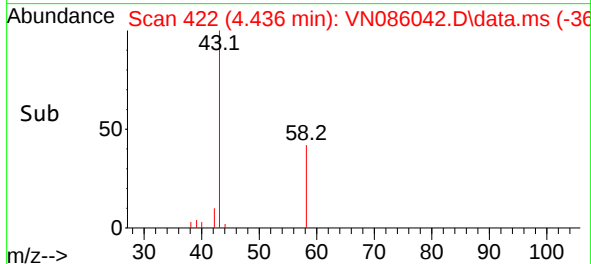
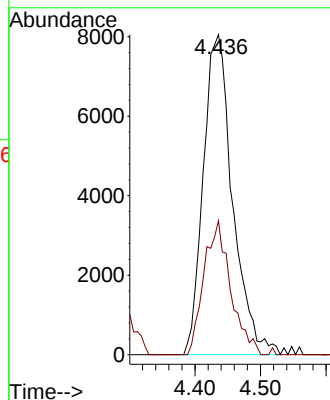
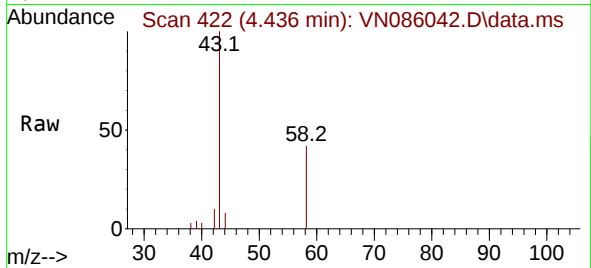
PB167234ZHE#02

Tgt Ion: 43 Resp: 25029

Ion Ratio Lower Upper

43 100

58 41.8 29.4 44.2



#18

Methyl Acetate

Concen: 0.971 ug/l

RT: 5.042 min Scan# 525

Delta R.T. 0.018 min

Lab File: VN086042.D

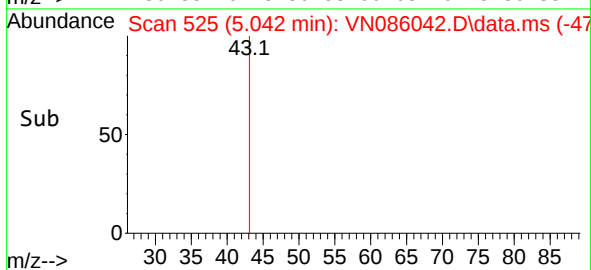
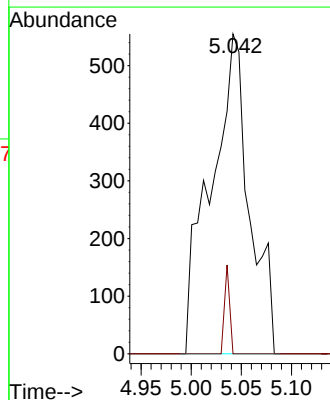
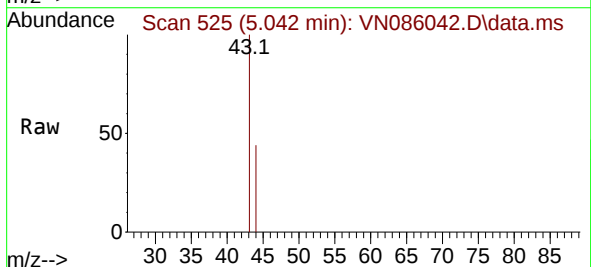
Acq: 21 Mar 2025 16:05

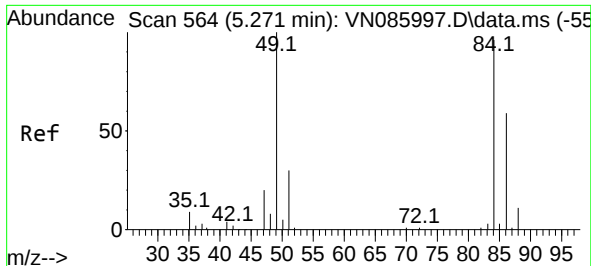
Tgt Ion: 43 Resp: 1486

Ion Ratio Lower Upper

43 100

74 3.6 23.9 35.9#

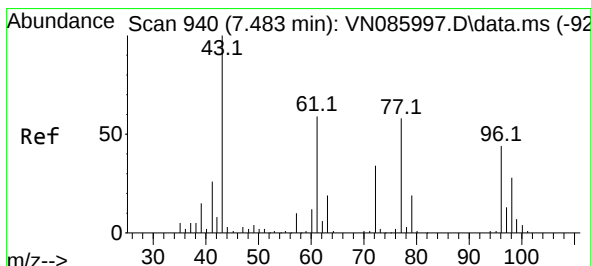
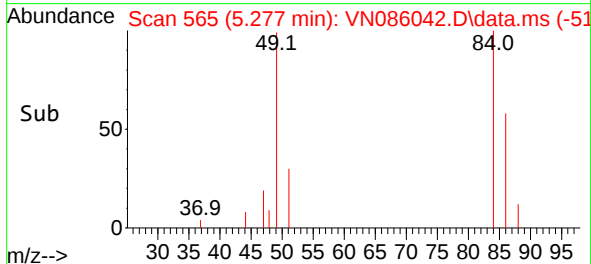
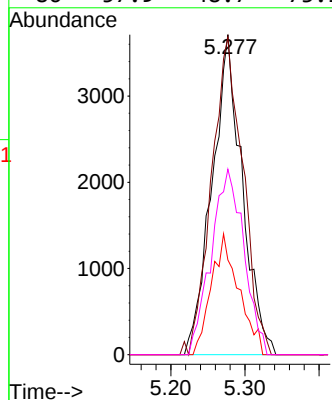
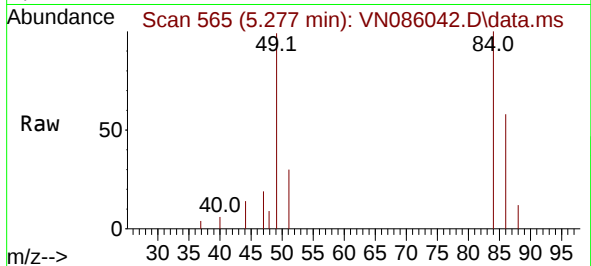




#20
Methylene Chloride
Concen: 5.805 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086042.D
Acq: 21 Mar 2025 16:05

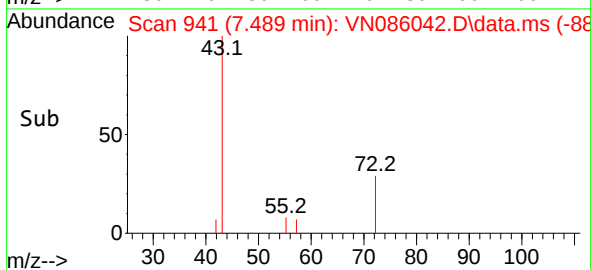
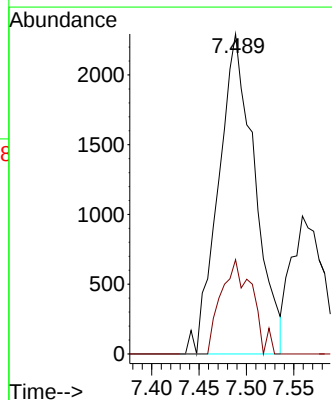
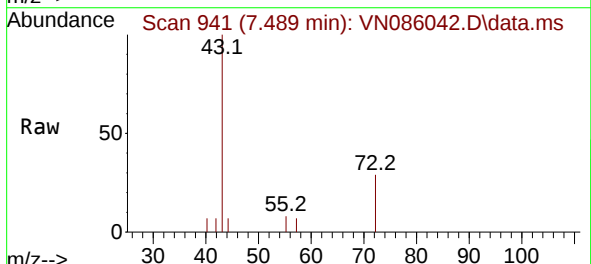
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#02

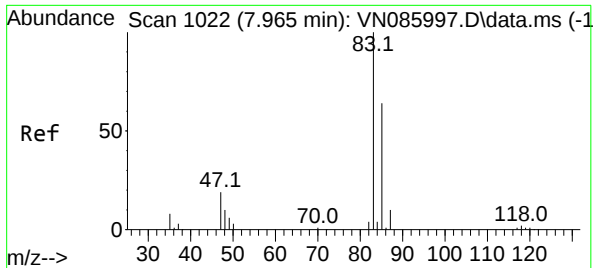
Tgt Ion: 84	Resp: 10506
Ion Ratio	Lower Upper
84 100	
49 99.3	83.3 124.9
51 29.6	24.8 37.2
86 57.9	48.7 73.1



#25
2-Butanone
Concen: 6.834 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086042.D
Acq: 21 Mar 2025 16:05

Tgt Ion: 43	Resp: 6100		
Ion Ratio	Lower	Upper	
43 100			
72 29.5	27.4	41.0	

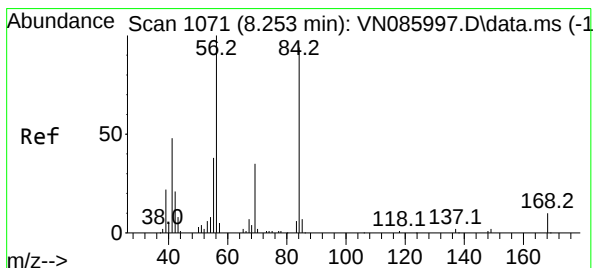
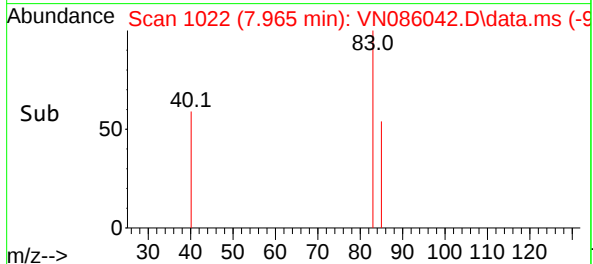
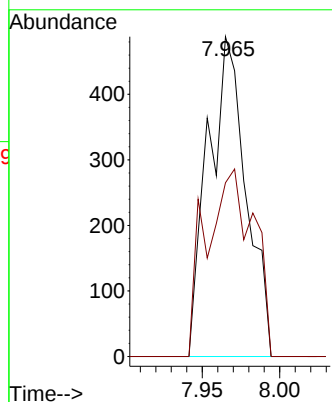
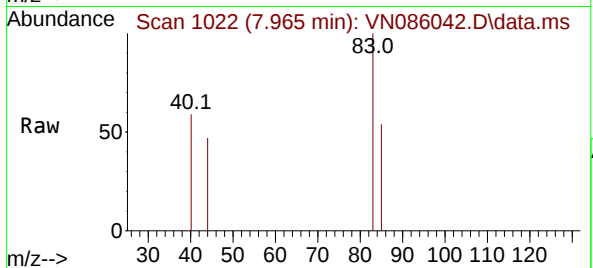




#30
Chloroform
Concen: 0.253 ug/l
RT: 7.965 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086042.D
Acq: 21 Mar 2025 16:05

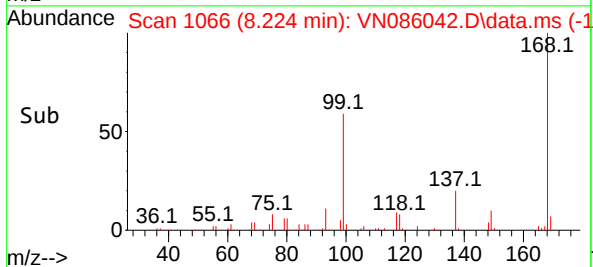
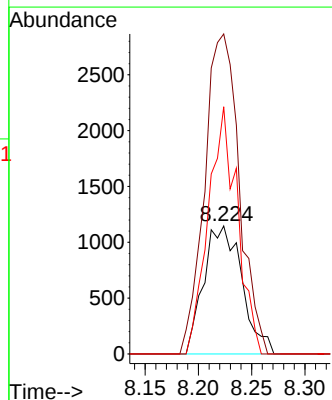
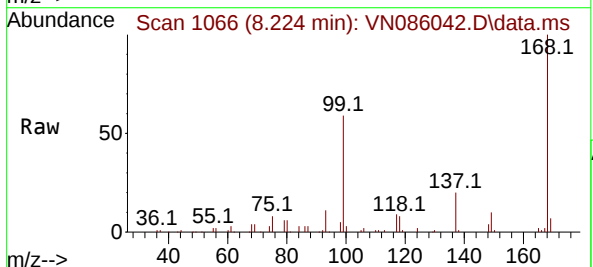
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#02

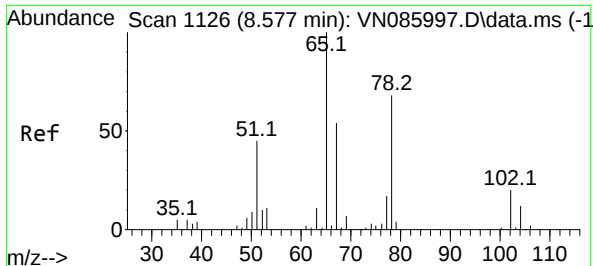
Tgt Ion: 83 Resp: 829
Ion Ratio Lower Upper
83 100
85 54.3 51.5 77.3



#31
Cyclohexane
Concen: 1.132 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086042.D
Acq: 21 Mar 2025 16:05

Tgt Ion: 56 Resp: 2856
Ion Ratio Lower Upper
56 100
69 250.1 28.0 42.0#
84 193.2 75.0 112.6#





#33

1,2-Dichloroethane-d4

Concen: 57.332 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086042.D

Acq: 21 Mar 2025 16:05

Instrument :

MSVOA_N

ClientSampleId :

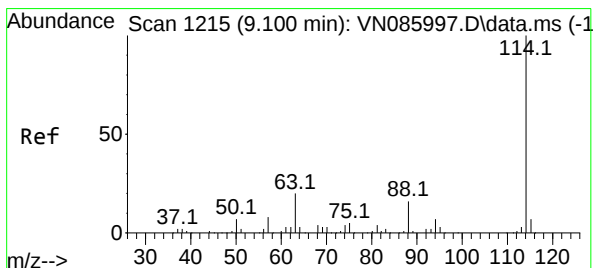
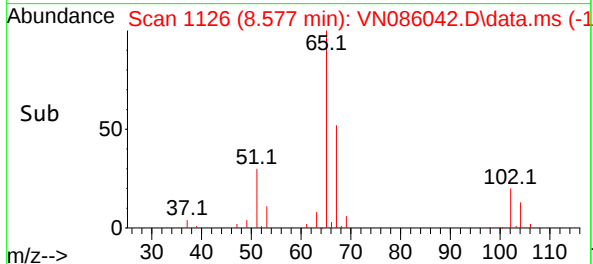
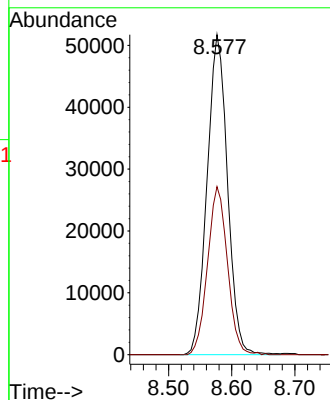
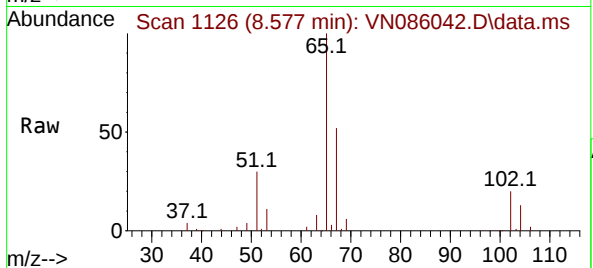
PB167234ZHE#02

Tgt Ion: 65 Resp: 116089

Ion Ratio Lower Upper

65 100

67 51.1 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: VN086042.D

Acq: 21 Mar 2025 16:05

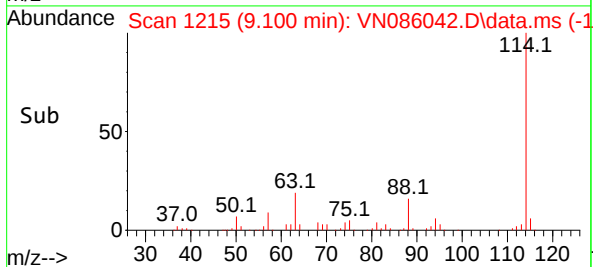
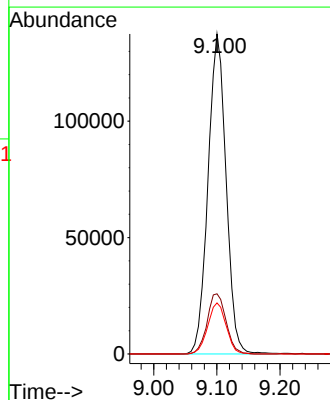
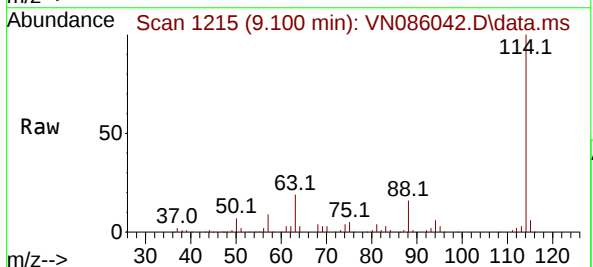
Tgt Ion: 114 Resp: 273541

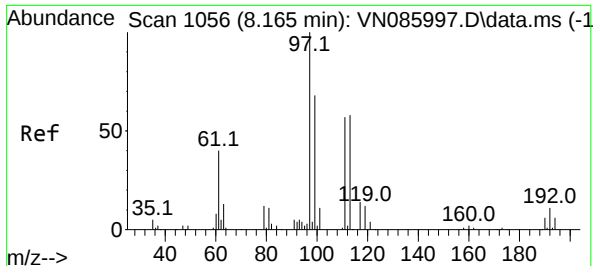
Ion Ratio Lower Upper

114 100

63 18.8 0.0 39.6

88 15.9 0.0 32.6

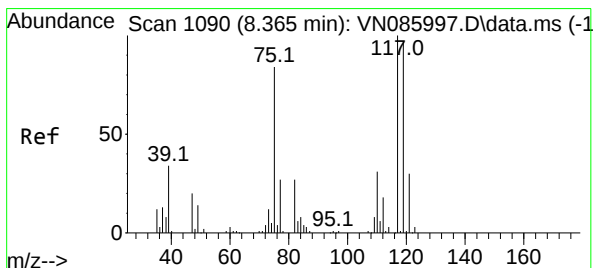
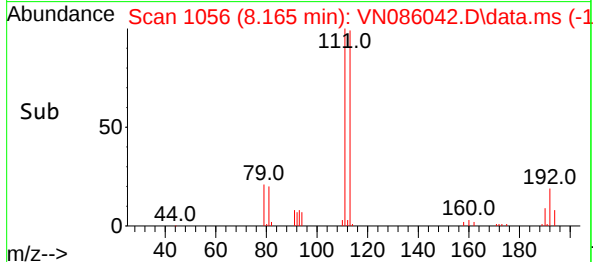
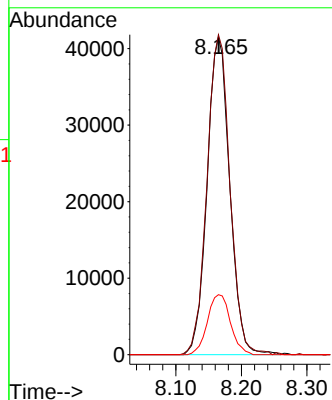
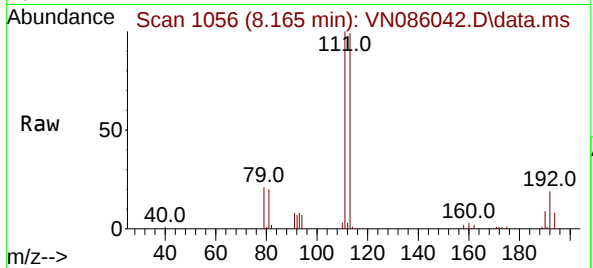




#35
Dibromofluoromethane
Concen: 52.004 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086042.D
Acq: 21 Mar 2025 16:05

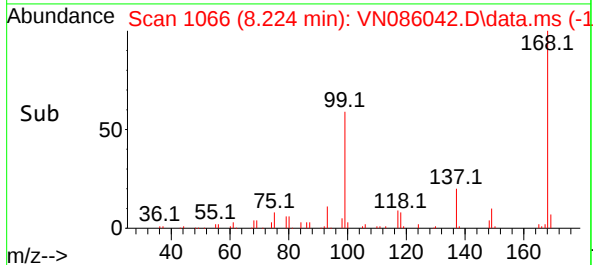
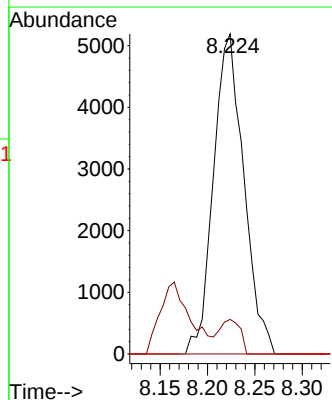
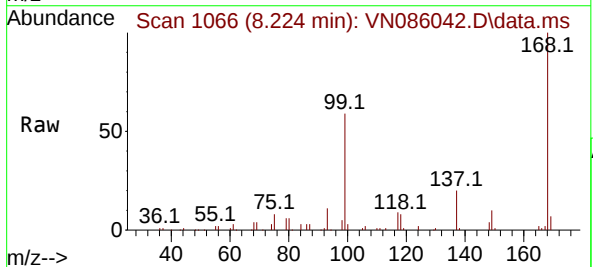
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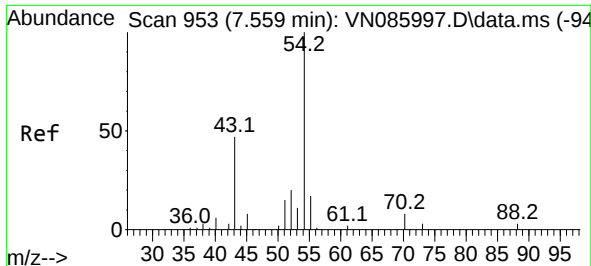
Tgt Ion:113 Resp: 99290
Ion Ratio Lower Upper
113 100
111 102.2 81.8 122.8
192 19.3 15.9 23.9



#36
1,1-Dichloropropene
Concen: 4.597 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN086042.D
Acq: 21 Mar 2025 16:05

Tgt Ion: 75 Resp: 11558
Ion Ratio Lower Upper
75 100
110 7.2 17.8 53.3#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 1.118 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN086042.D

Acq: 21 Mar 2025 16:05

Instrument :

MSVOA_N

ClientSampleId :

PB167234ZHE#02

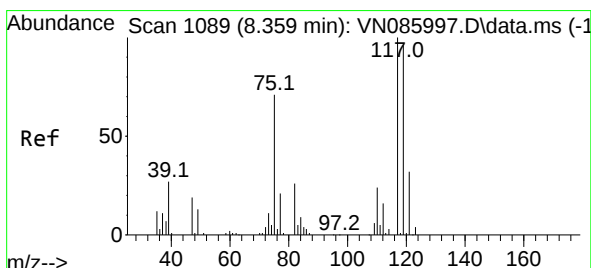
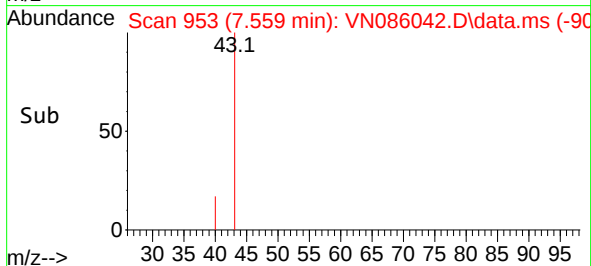
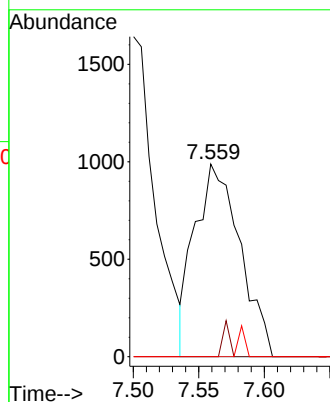
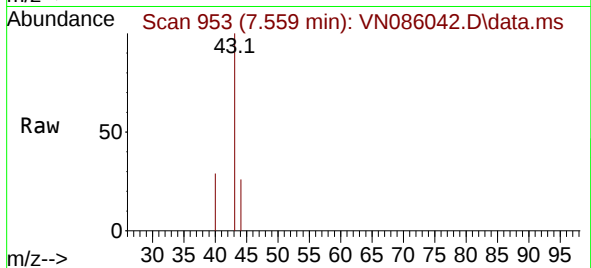
Tgt Ion: 43 Resp: 2372

Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.4#

70 0.0 11.0 16.6#



#38

Carbon Tetrachloride

Concen: 4.773 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.129 min

Lab File: VN086042.D

Acq: 21 Mar 2025 16:05

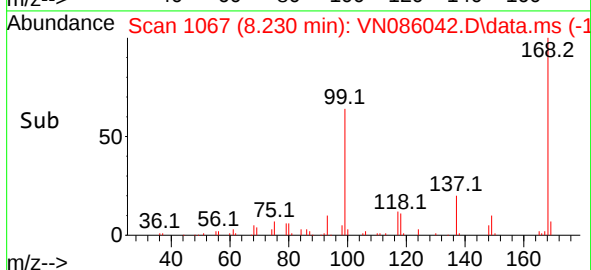
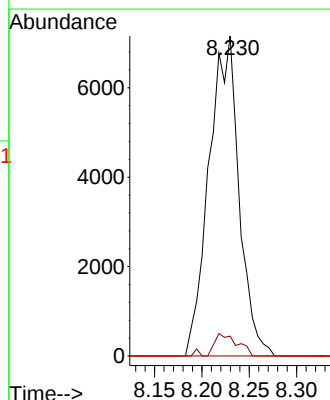
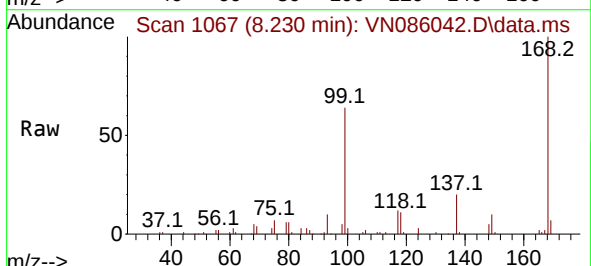
Tgt Ion: 117 Resp: 15776

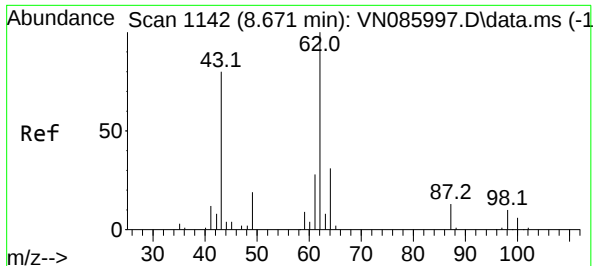
Ion Ratio Lower Upper

117 100

119 6.2 77.0 115.4#

121 0.0 25.6 38.4#





#42

1,2-Dichloroethane

Concen: 0.225 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.012 min

Lab File: VN086042.D

Acq: 21 Mar 2025 16:05

Instrument :

MSVOA_N

ClientSampleId :

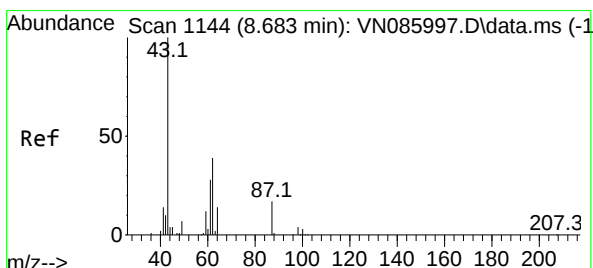
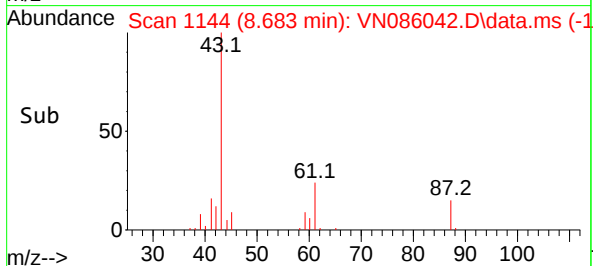
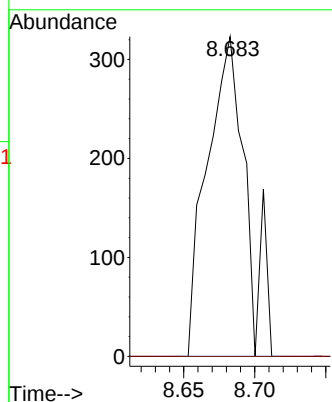
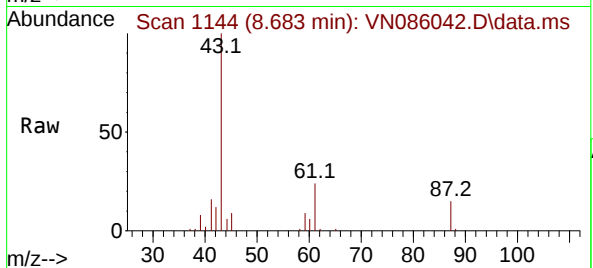
PB167234ZHE#02

Tgt Ion: 62 Resp: 618

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.6



#43

Isopropyl Acetate

Concen: 20.691 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN086042.D

Acq: 21 Mar 2025 16:05

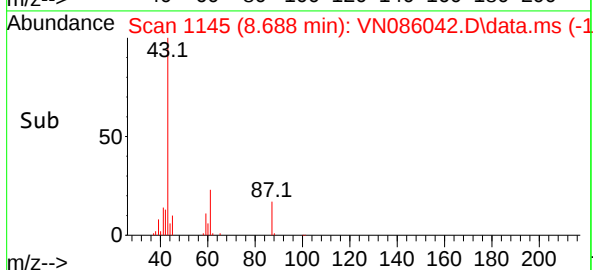
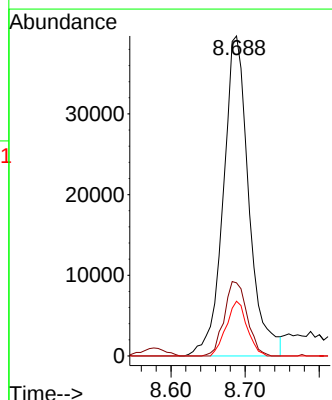
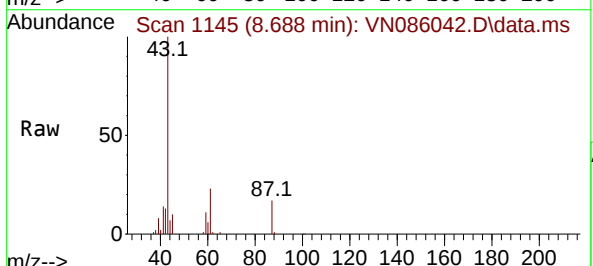
Tgt Ion: 43 Resp: 95096

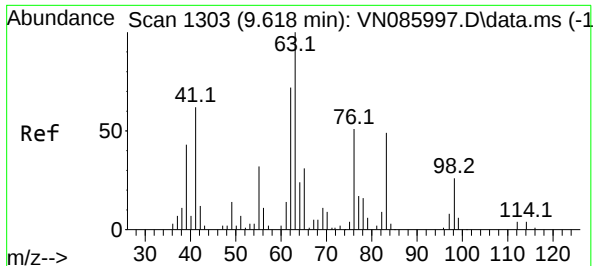
Ion Ratio Lower Upper

43 100

61 20.8 25.0 37.6#

87 13.9 13.0 19.4





#45

1,2-Dichloropropane

Concen: 0.819 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN086042.D

Acq: 21 Mar 2025 16:05

Instrument :

MSVOA_N

ClientSampleId :

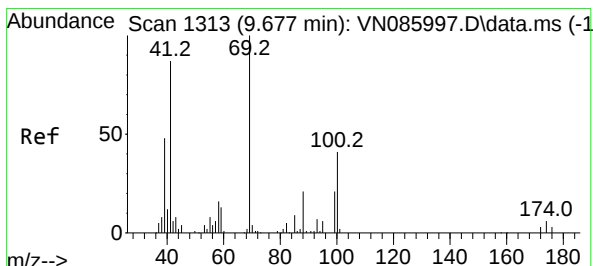
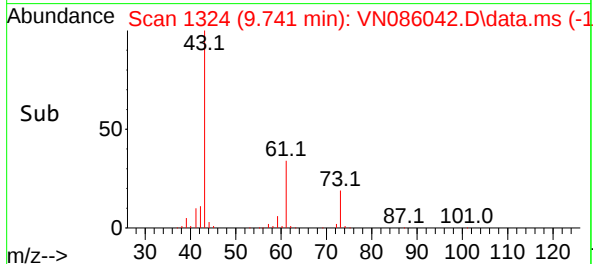
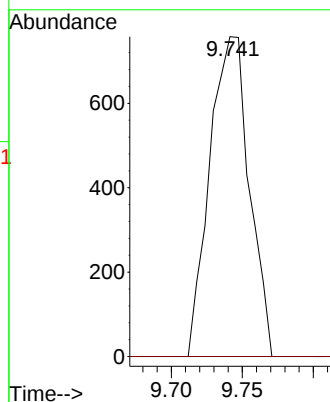
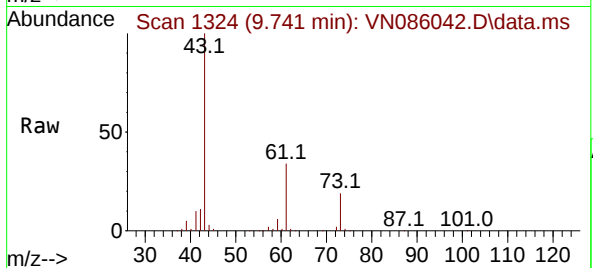
PB167234ZHE#02

Tgt Ion: 63 Resp: 1471

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



#48

Methyl methacrylate

Concen: 1.831 ug/l

RT: 9.659 min Scan# 1310

Delta R.T. -0.018 min

Lab File: VN086042.D

Acq: 21 Mar 2025 16:05

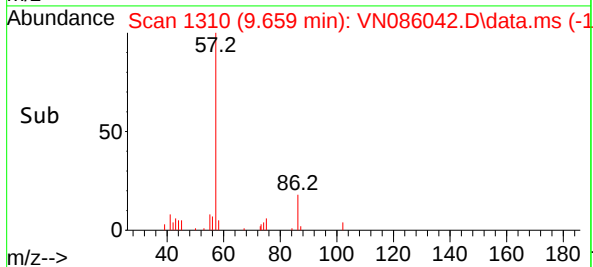
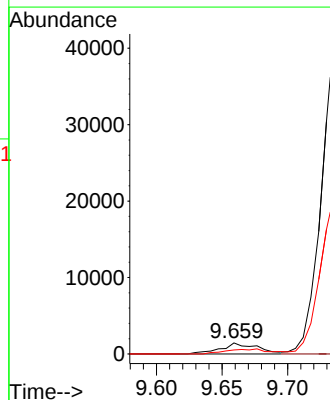
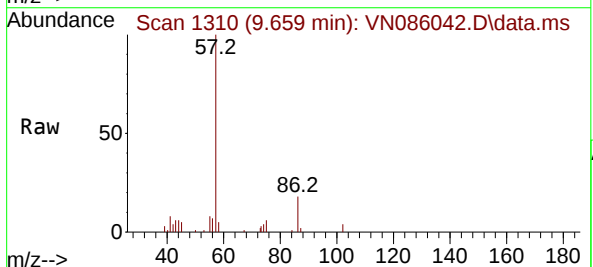
Tgt Ion: 41 Resp: 2777

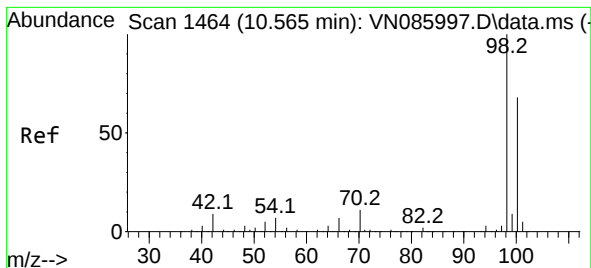
Ion Ratio Lower Upper

41 100

69 0.0 83.1 124.7#

39 47.3 45.6 68.4

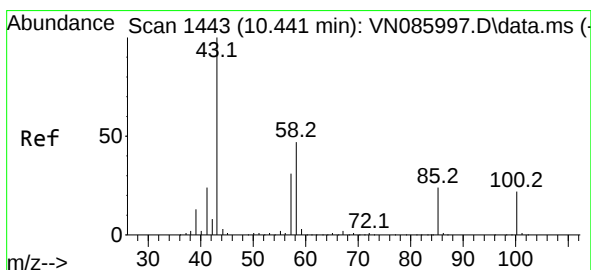
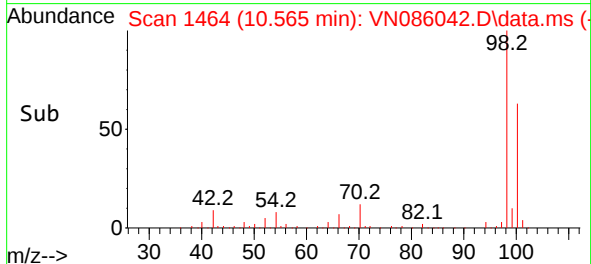
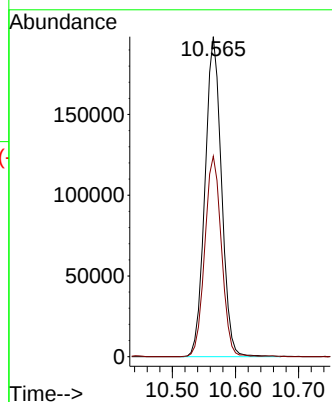
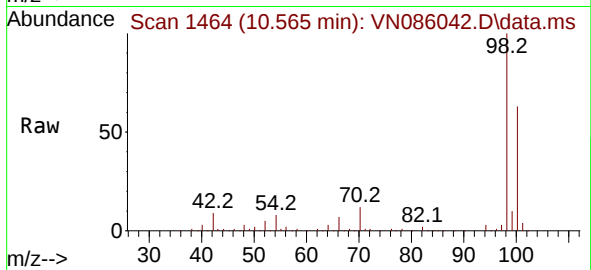




#50
Toluene-d8
Concen: 51.850 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086042.D
Acq: 21 Mar 2025 16:05

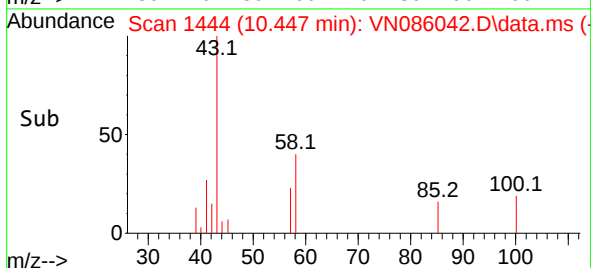
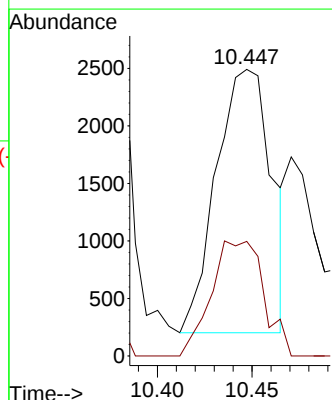
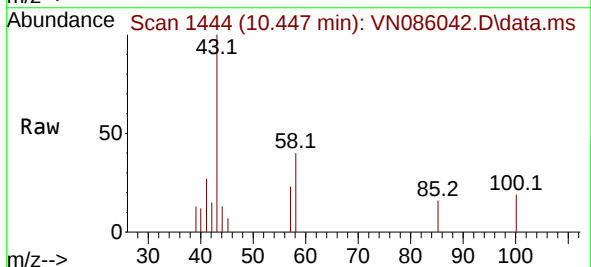
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#02

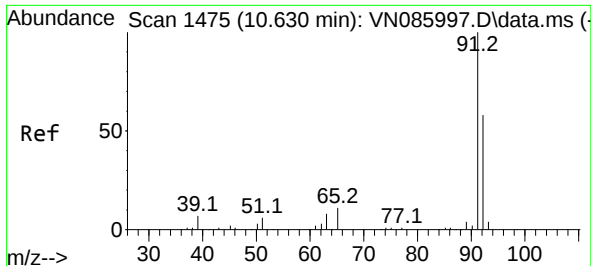
Tgt Ion: 98 Resp: 359290
Ion Ratio Lower Upper
98 100
100 63.3 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 2.295 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086042.D
Acq: 21 Mar 2025 16:05

Tgt Ion: 43 Resp: 4651
Ion Ratio Lower Upper
43 100
58 41.4 37.4 56.0

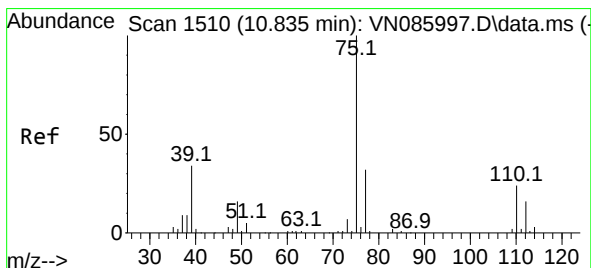
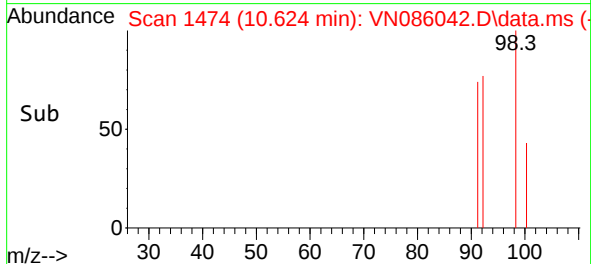
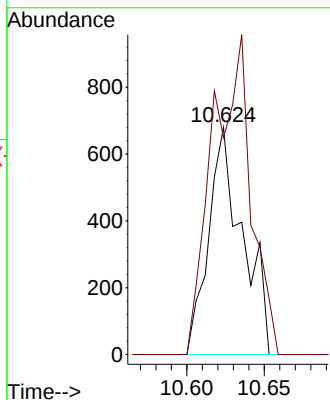
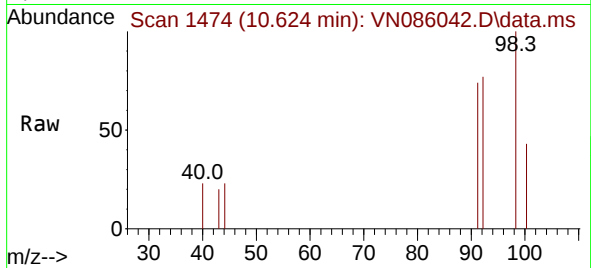




#52
Toluene
Concen: 0.213 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086042.D
Acq: 21 Mar 2025 16:05

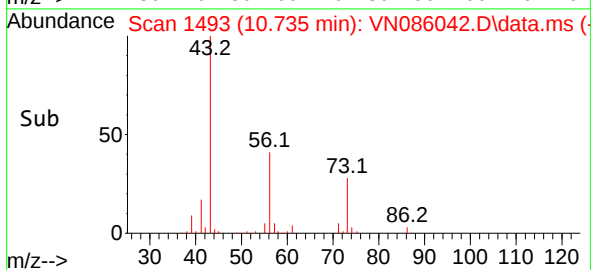
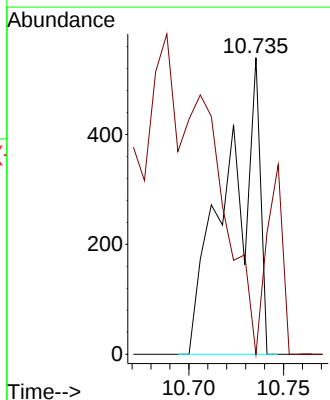
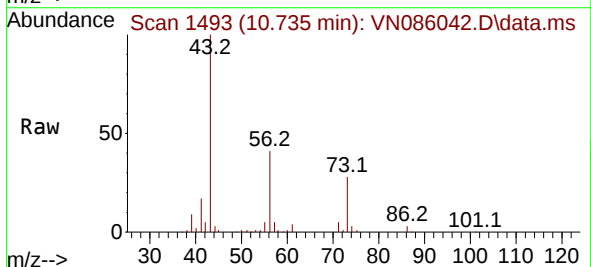
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#02

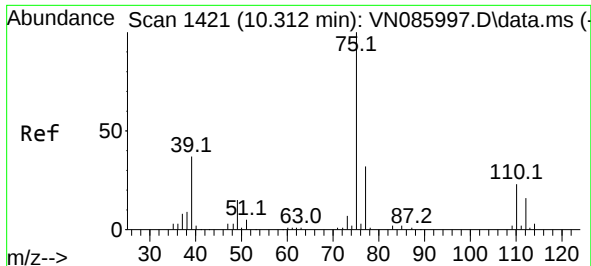
Tgt Ion: 92 Resp: 1034
Ion Ratio Lower Upper
92 100
91 159.6 136.2 204.4



#53
t-1,3-Dichloropropene
Concen: 0.222 ug/l
RT: 10.735 min Scan# 1493
Delta R.T. -0.100 min
Lab File: VN086042.D
Acq: 21 Mar 2025 16:05

Tgt Ion: 75 Resp: 636
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#

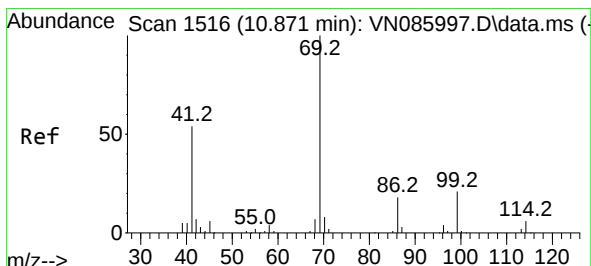
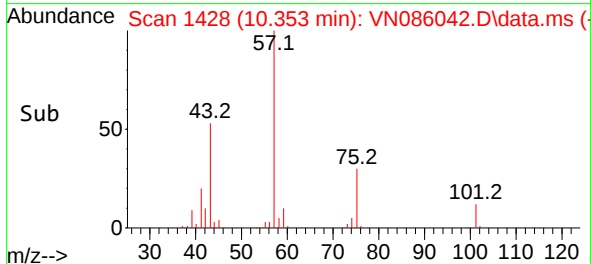
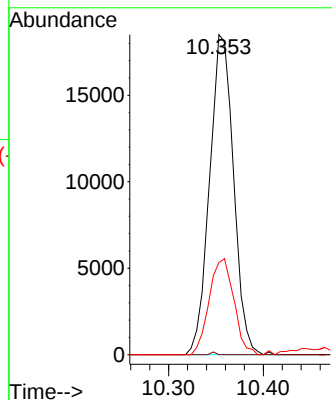
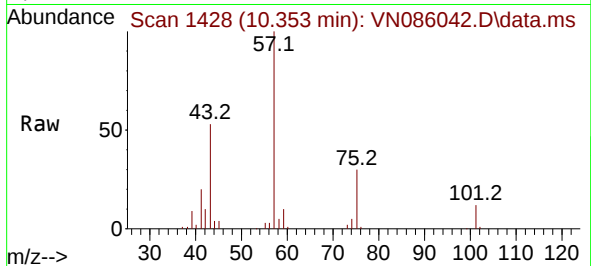




#54
 cis-1,3-Dichloropropene
 Concen: 10.766 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN086042.D
 Acq: 21 Mar 2025 16:05

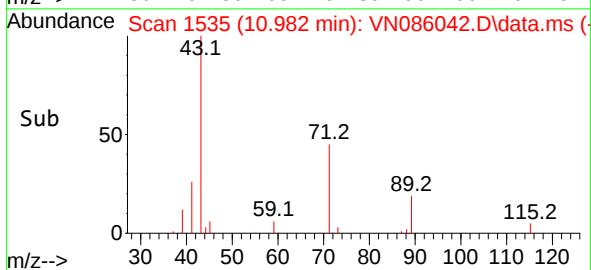
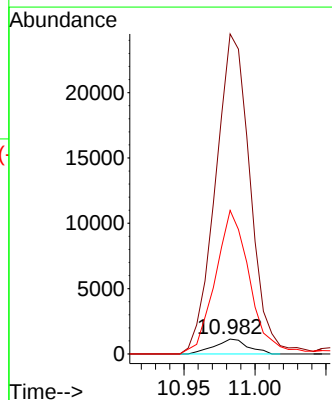
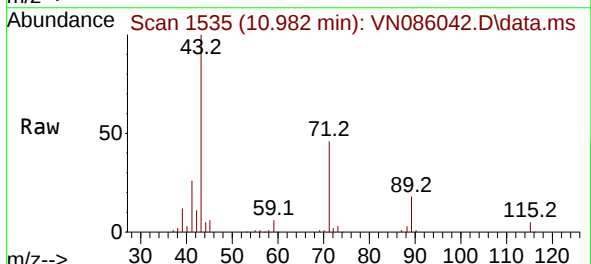
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#02

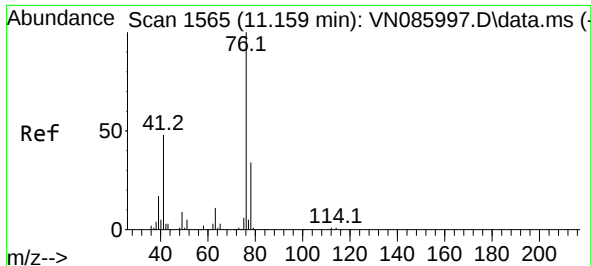
Tgt Ion: 75 Resp: 32547
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.3 37.9#
 39 28.8 29.6 44.4#



#56
 Ethyl methacrylate
 Concen: 0.983 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.111 min
 Lab File: VN086042.D
 Acq: 21 Mar 2025 16:05

Tgt Ion: 69 Resp: 1857
 Ion Ratio Lower Upper
 69 100
 41 2244.3 41.6 62.4#
 39 1000.9 21.8 32.8#





#57

1,3-Dichloropropane

Concen: 1.517 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086042.D

Acq: 21 Mar 2025 16:05

Instrument :

MSVOA_N

ClientSampleId :

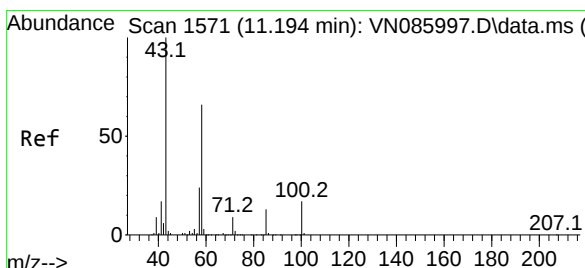
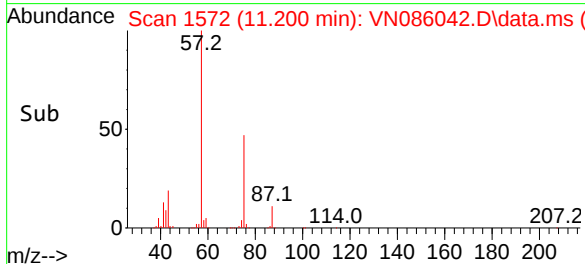
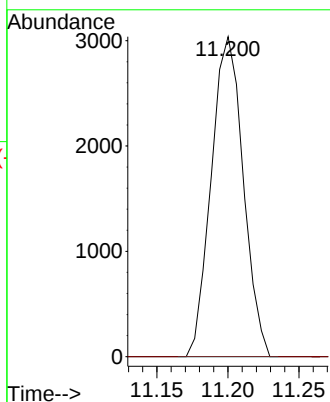
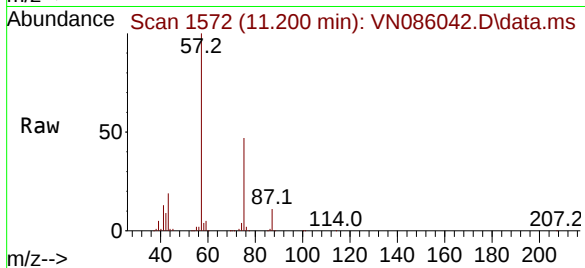
PB167234ZHE#02

Tgt Ion: 76 Resp: 4762

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 33.133 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086042.D

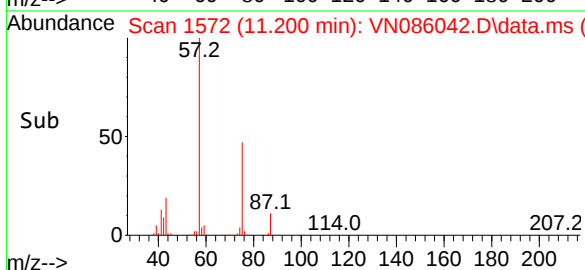
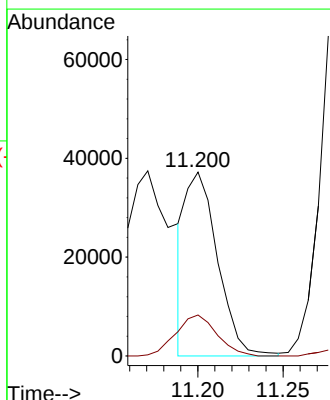
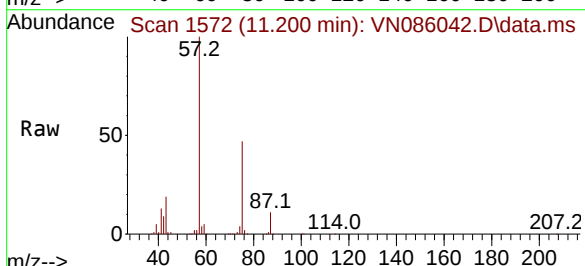
Acq: 21 Mar 2025 16:05

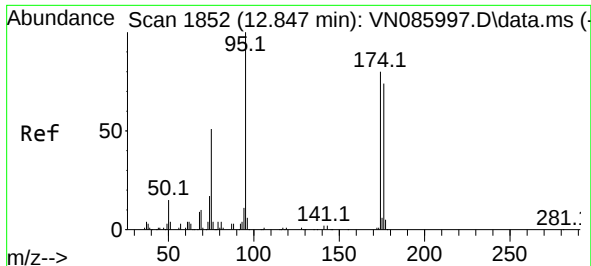
Tgt Ion: 43 Resp: 48924

Ion Ratio Lower Upper

43 100

58 28.4 32.4 97.2#

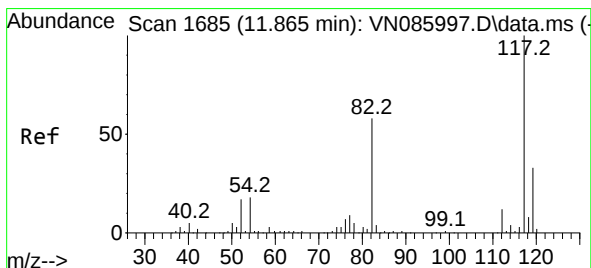
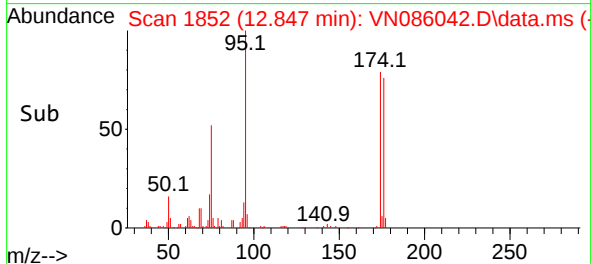
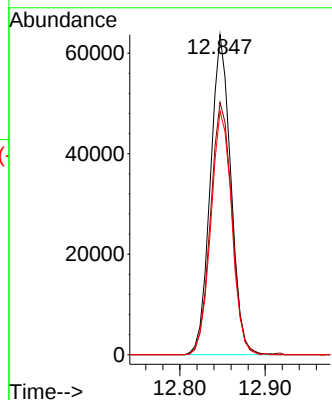
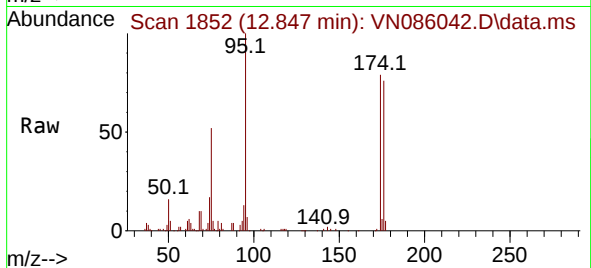




#62
4-Bromofluorobenzene
Concen: 42.793 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086042.D
Acq: 21 Mar 2025 16:05

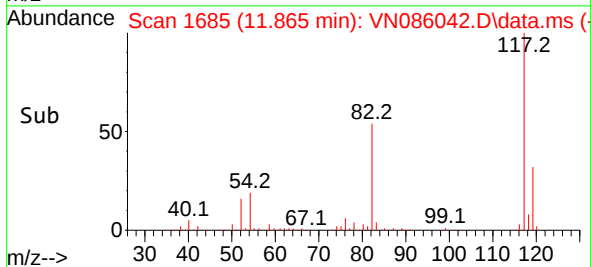
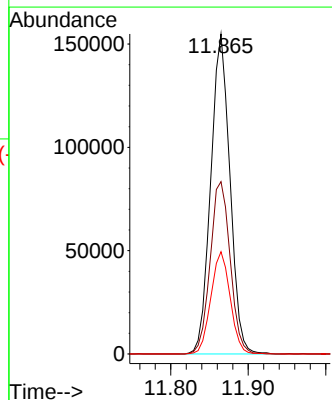
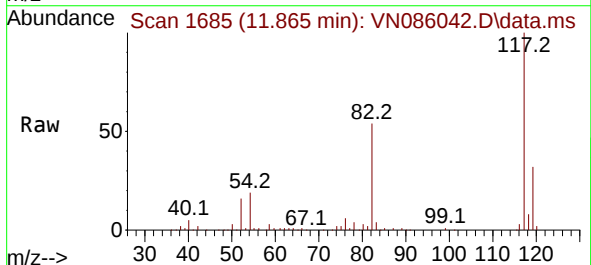
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#02

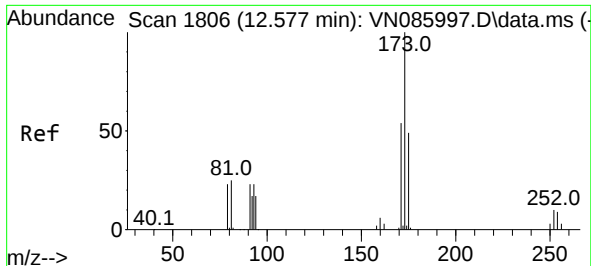
Tgt Ion: 95 Resp: 105752
Ion Ratio Lower Upper
95 100
174 82.9 0.0 156.8
176 78.1 0.0 152.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086042.D
Acq: 21 Mar 2025 16:05

Tgt Ion: 117 Resp: 266254
Ion Ratio Lower Upper
117 100
82 53.9 46.7 70.1
119 32.0 26.5 39.7

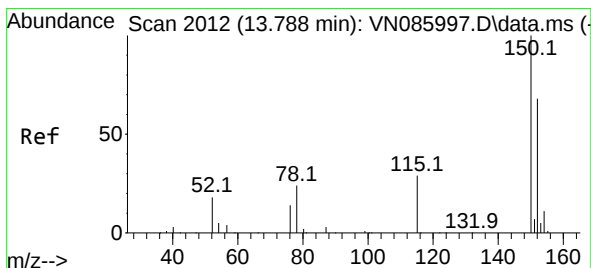
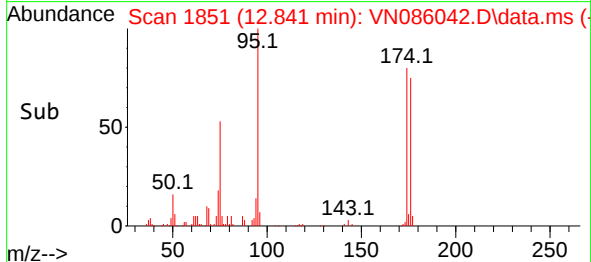
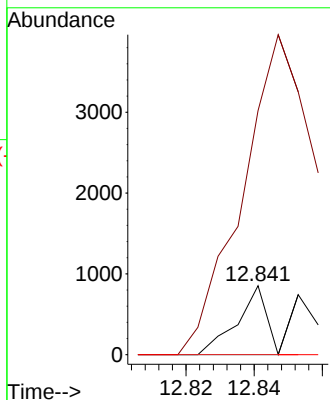
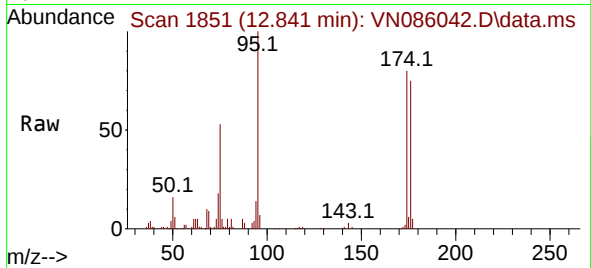




#71
Bromoform
Concen: 0.271 ug/l
RT: 12.841 min Scan# 1806
Delta R.T. 0.265 min
Lab File: VN086042.D
Acq: 21 Mar 2025 16:05

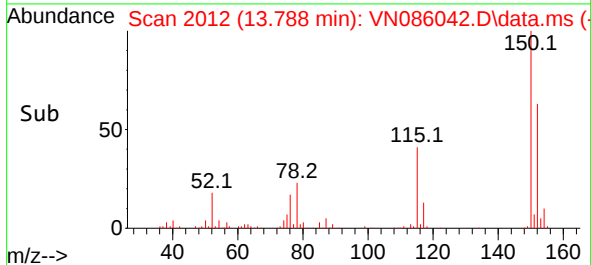
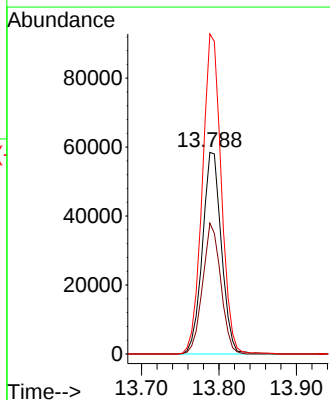
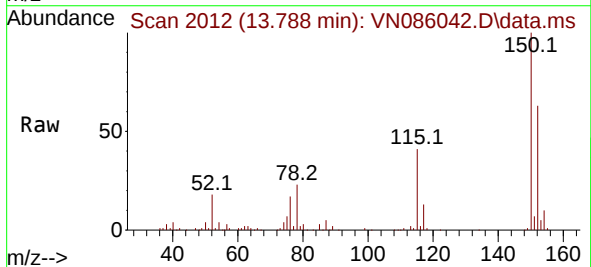
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#02

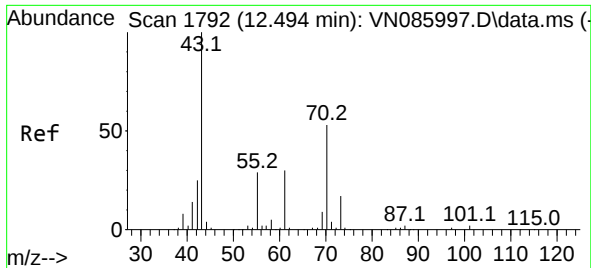
Tgt Ion	Ratio	Lower	Upper
173	100		
175	920.5	24.3	73.0#
254	0.0	0.0	0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086042.D
Acq: 21 Mar 2025 16:05

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.9	31.1	93.2
150	158.0	0.0	359.6

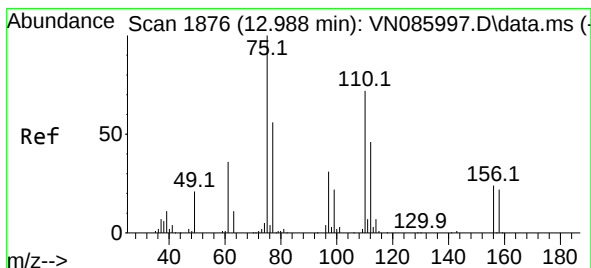
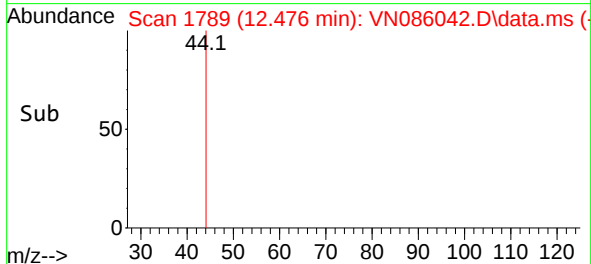
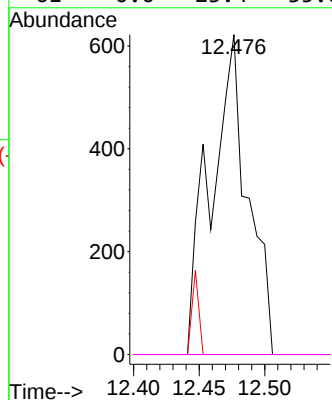
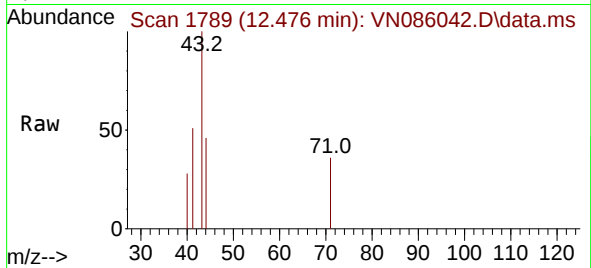




#74
N-amy1 acetate
Concen: 0.538 ug/l
RT: 12.476 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN086042.D
Acq: 21 Mar 2025 16:05

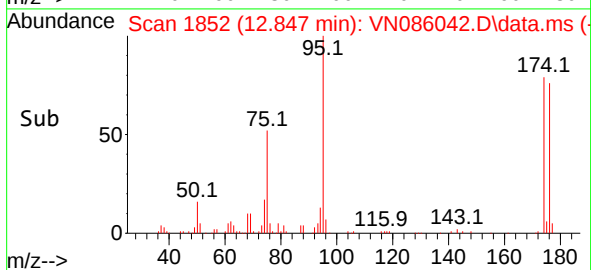
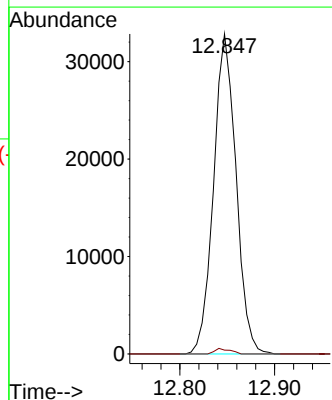
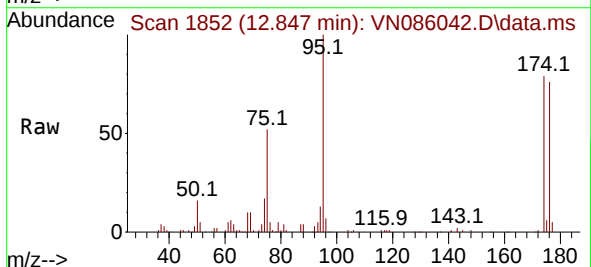
Instrument :
MSVOA_N
ClientSampleId :
PB167234ZHE#02

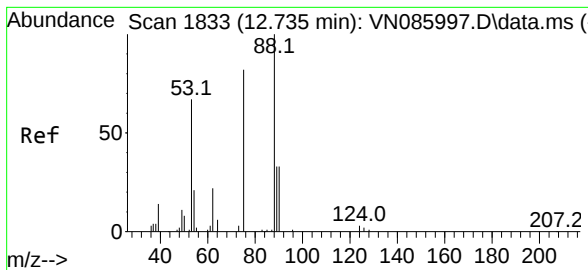
Tgt Ion: 43	Resp:	1223	
Ion	Ratio	Lower	Upper
43	100		
70	0.0	43.0	64.4#
55	0.0	23.8	35.8#
61	0.0	23.4	35.0#



#76
1,2,3-Trichloropropane
Concen: 24.303 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086042.D
Acq: 21 Mar 2025 16:05

Tgt Ion: 75	Resp: 54104
Ion Ratio	Lower Upper
75 100	
77 1.2	83.7 251.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.252 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086042.D
 Acq: 21 Mar 2025 16:05

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167234ZHE#02

Tgt Ion: 75 Resp: 54104
 Ion Ratio Lower Upper
 75 100
 53 0.1 66.0 99.0#
 89 0.0 36.9 55.3#

