

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051325\
 Data File : VN086600.D
 Acq On : 13 May 2025 14:35
 Operator : JC\MD
 Sample : PB167932ZHE#19
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#19

Quant Time: May 14 01:44:39 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	169982	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	324997	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	318403	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	132162	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	122745	49.797	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.600%
35) Dibromofluoromethane	8.165	113	96757	64.147	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	128.300%#
50) Toluene-d8	10.565	98	426285	52.880	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	105.760%
62) 4-Bromofluorobenzene	12.847	95	148003	50.336	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	100.680%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	793	0.271	ug/l	89
11) Tert butyl alcohol	5.530	59	187	0.416	ug/l #	72
16) Acetone	4.430	43	22937	21.703	ug/l	92
18) Methyl Acetate	5.030	43	3162	1.069	ug/l #	70
20) Methylene Chloride	5.265	84	1913	0.840	ug/l #	80
25) 2-Butanone	7.488	43	3260	2.125	ug/l	96
29) Tetrahydrofuran	7.853	42	555	0.541	ug/l #	53
31) Cyclohexane	8.224	56	3686	0.923	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	13955	4.632	ug/l #	50
38) Carbon Tetrachloride	8.218	117	17451	6.083	ug/l #	16
41) Methacrylonitrile	7.841	41	373	0.203	ug/l #	30
43) Isopropyl Acetate	8.688	43	35468	4.446	ug/l #	76
45) 1,2-Dichloropropane	9.741	63	756	0.320	ug/l #	43
48) Methyl methacrylate	9.741	41	63776	22.897	ug/l #	42
51) 4-Methyl-2-Pentanone	10.441	43	3352	1.032	ug/l	92
54) cis-1,3-Dichloropropene	10.353	75	31569	7.919	ug/l #	60
57) 1,3-Dichloropropane	11.200	76	2737	0.712	ug/l #	43
59) 2-Hexanone	11.200	43	52391	21.747	ug/l #	43
71) Bromoform	12.847	173	800	0.453	ug/l #	1
74) N-amyl acetate	12.453	43	2776	0.516	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	75343	24.158	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	75343	58.017	ug/l #	10

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

Quant Time: May 14 01:44:39 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

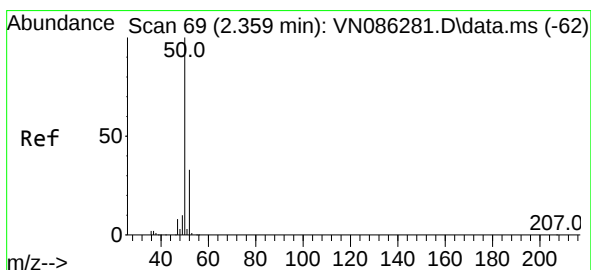
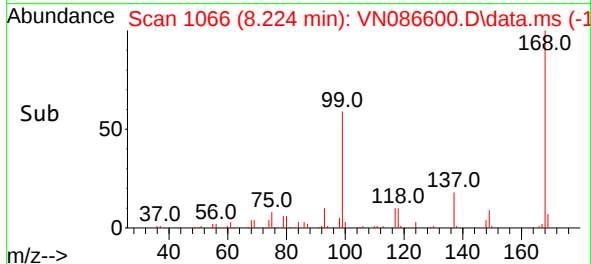
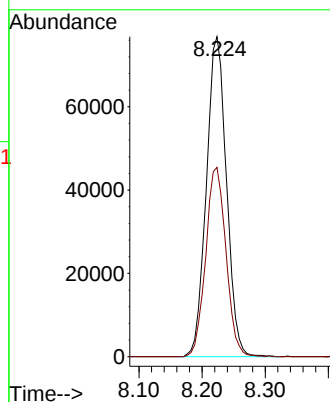
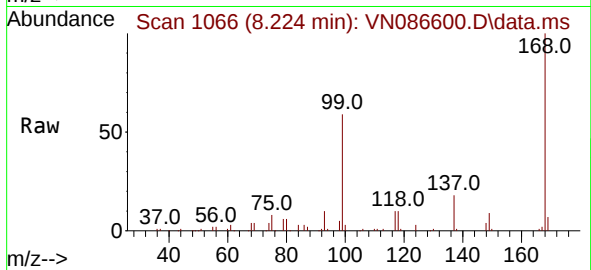




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35

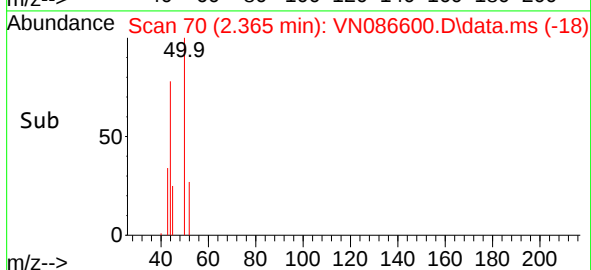
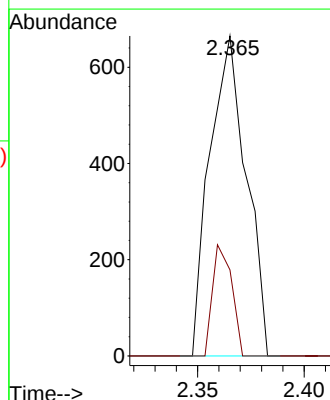
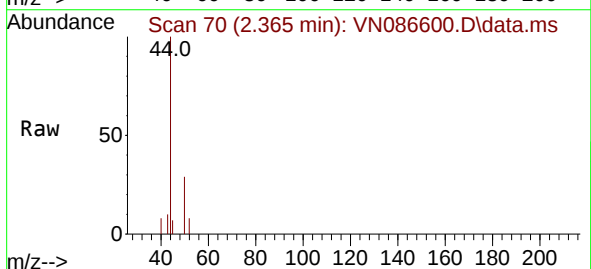
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#19

Tgt Ion:168 Resp: 169982
Ion Ratio Lower Upper
168 100
99 59.2 52.5 78.7



#3
Chloromethane
Concen: 0.271 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35

Tgt Ion: 50 Resp: 793
Ion Ratio Lower Upper
50 100
52 26.9 26.5 39.7

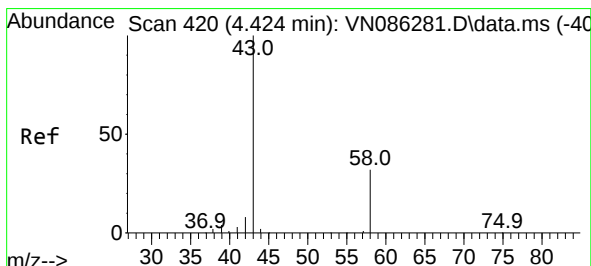
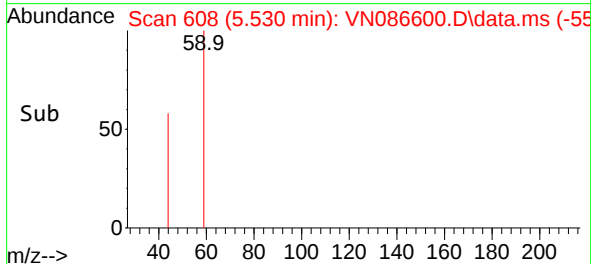
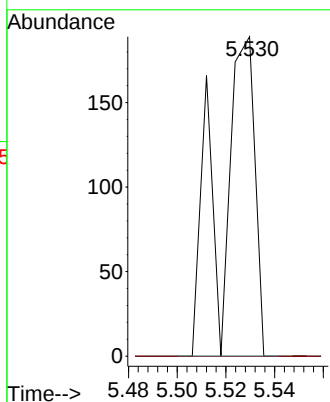
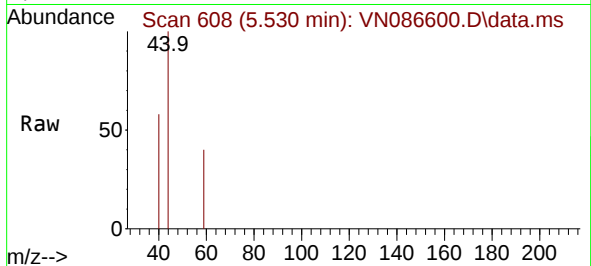




#11
Tert butyl alcohol
Concen: 0.416 ug/l
RT: 5.530 min Scan# 605
Delta R.T. 0.018 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35

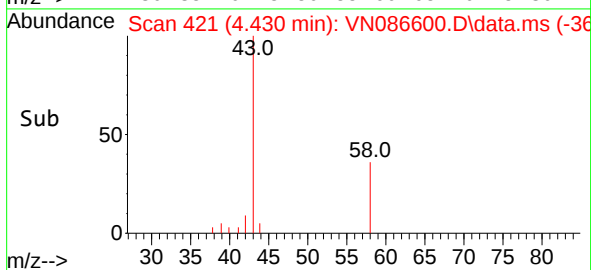
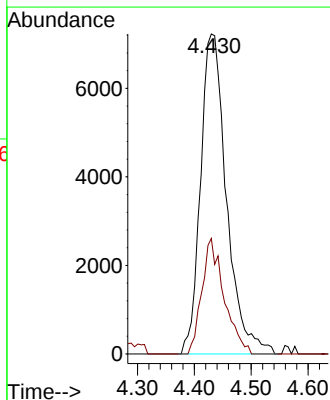
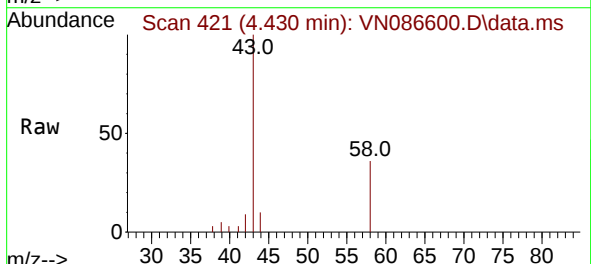
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#19

Tgt Ion: 59 Resp: 187
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 21.703 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35

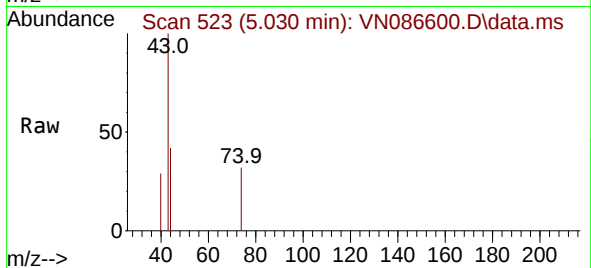
Tgt Ion: 43 Resp: 22937
Ion Ratio Lower Upper
43 100
58 36.1 25.3 37.9



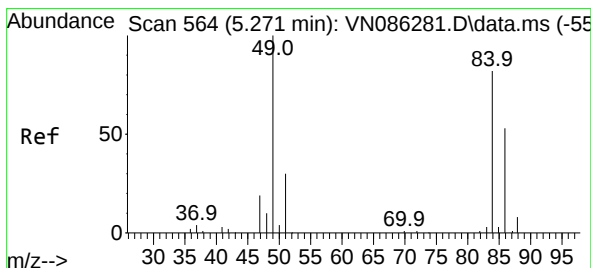
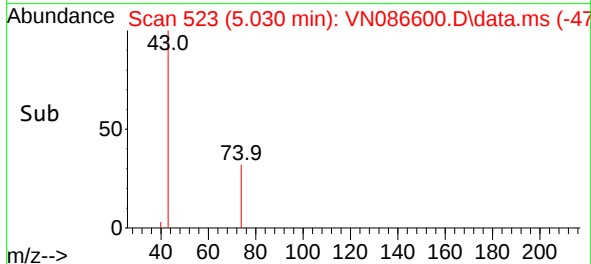
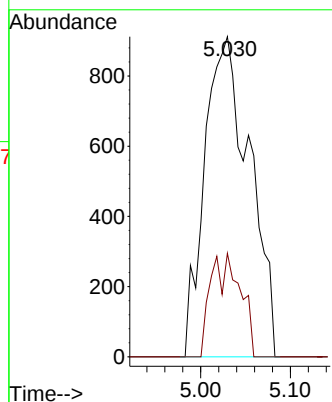


#18
Methyl Acetate
Concen: 1.069 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#19

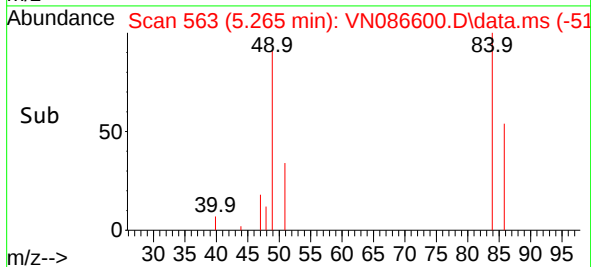
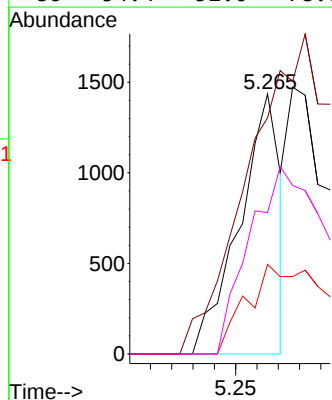
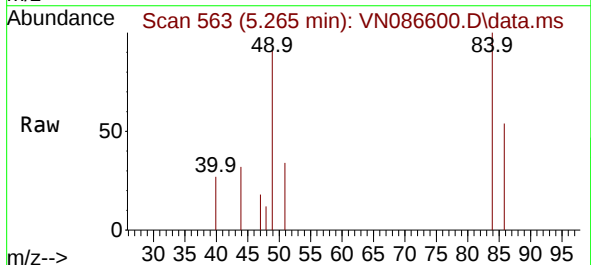


Tgt Ion: 43 Resp: 3162
Ion Ratio Lower Upper
43 100
74 9.5 19.8 29.6#



#20
Methylene Chloride
Concen: 0.840 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.006 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35

Tgt Ion: 84 Resp: 1913
Ion Ratio Lower Upper
84 100
49 90.8 98.2 147.2#
51 34.5 29.8 44.6
86 54.4 52.0 78.0

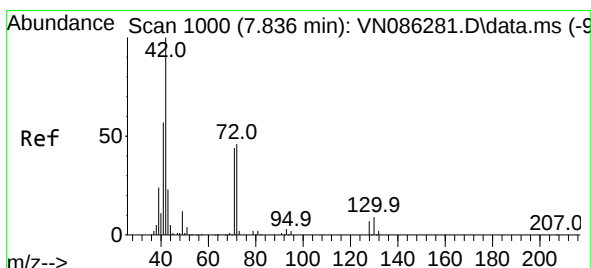
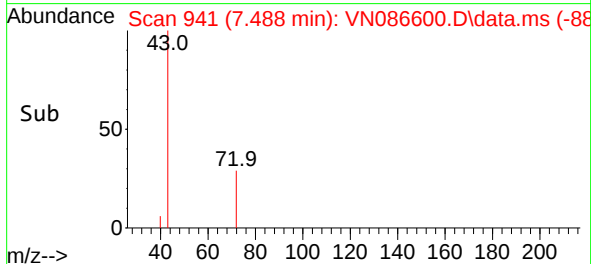
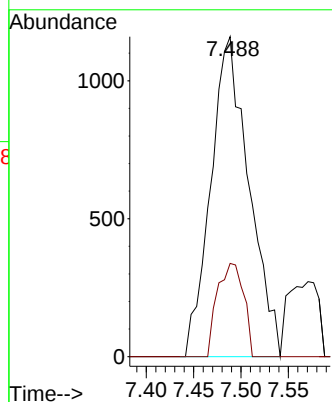
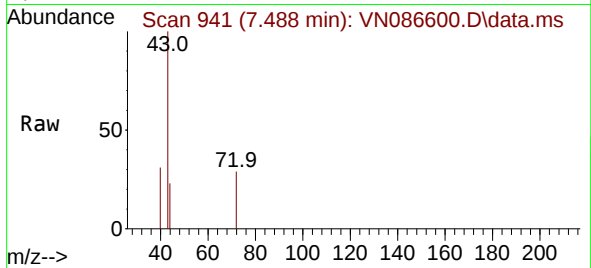




#25
2-Butanone
Concen: 2.125 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35

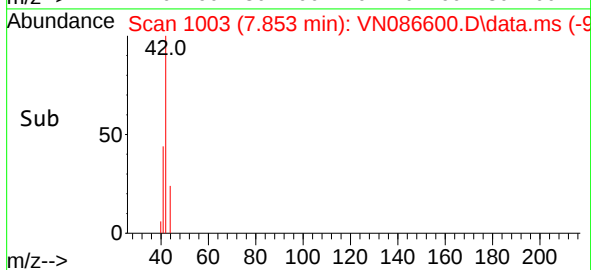
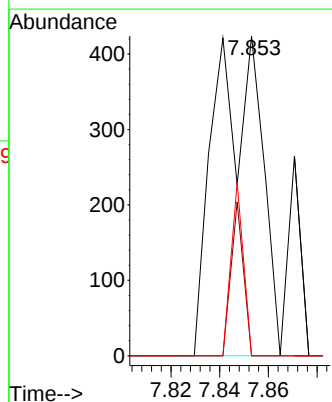
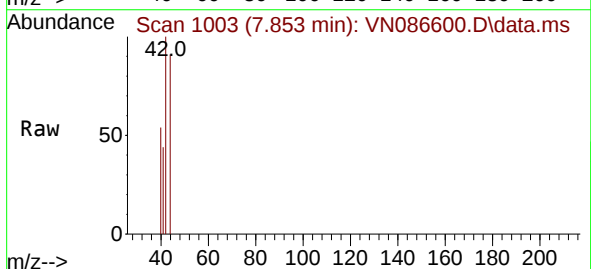
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#19

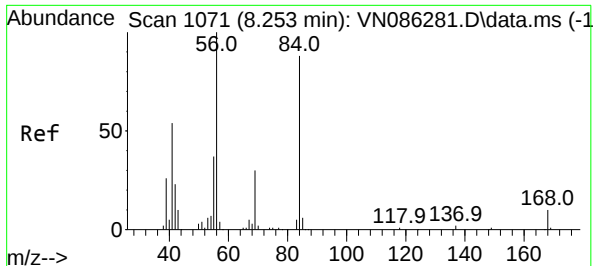
Tgt Ion: 43 Resp: 3260
Ion Ratio Lower Upper
43 100
72 29.1 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.541 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.018 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35

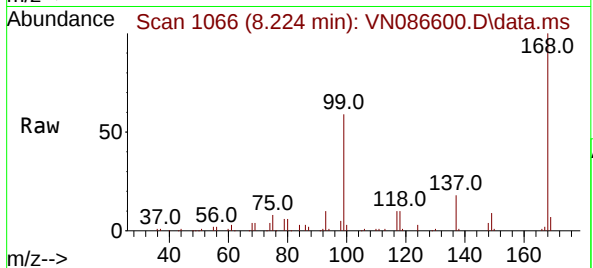
Tgt Ion: 42 Resp: 555
Ion Ratio Lower Upper
42 100
72 13.0 36.2 54.4#
71 14.6 34.0 51.0#



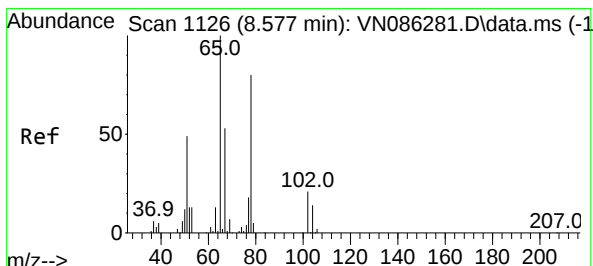
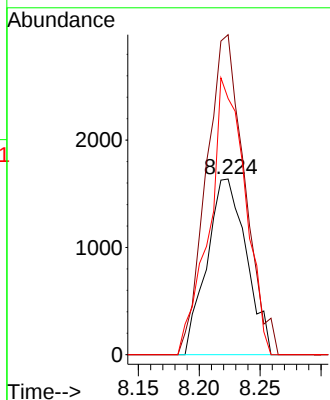
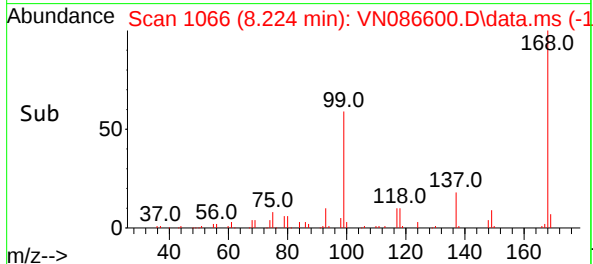


#31
Cyclohexane
Concen: 0.923 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.030 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35

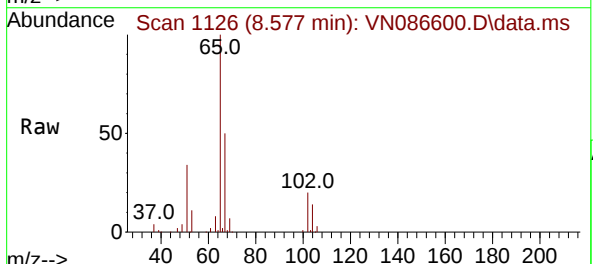
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#19



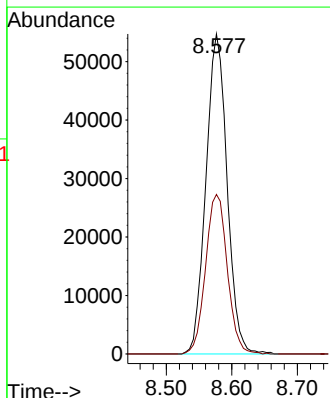
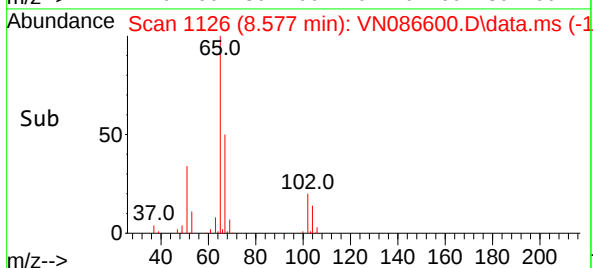
Tgt Ion: 56 Resp: 3686
Ion Ratio Lower Upper
56 100
69 182.1 24.2 36.2#
84 145.8 70.3 105.5#

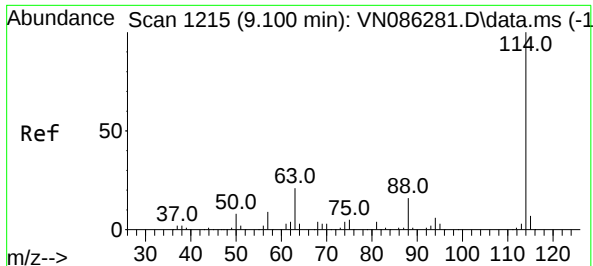


#33
1,2-Dichloroethane-d4
Concen: 49.797 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35



Tgt Ion: 65 Resp: 122745
Ion Ratio Lower Upper
65 100
67 51.2 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086600.D

Acq: 13 May 2025 14:35

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#19

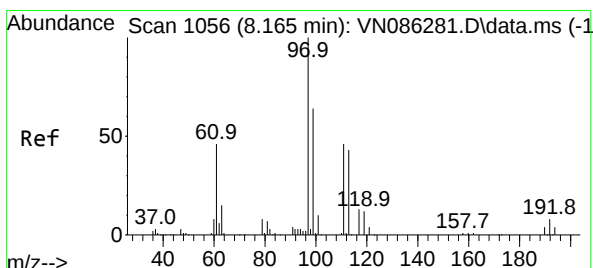
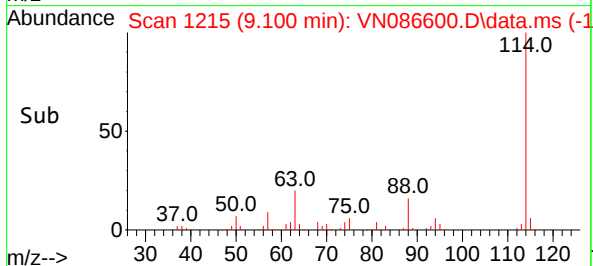
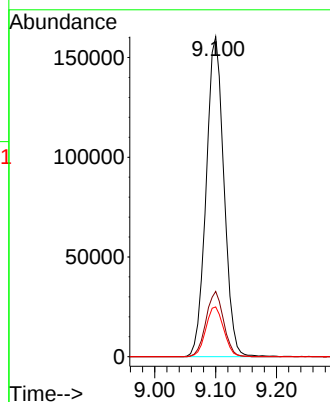
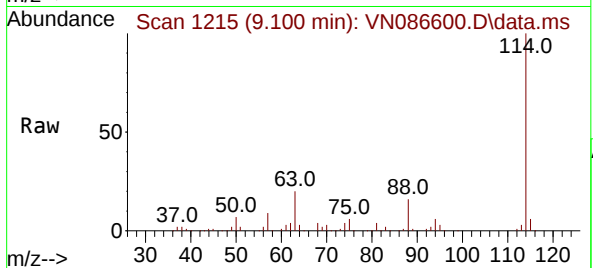
Tgt Ion:114 Resp: 324997

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.6

88 15.6 0.0 31.8



#35

Dibromofluoromethane

Concen: 64.147 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086600.D

Acq: 13 May 2025 14:35

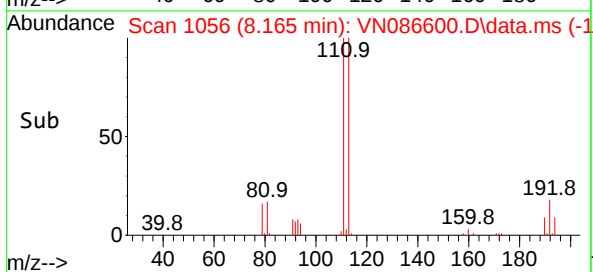
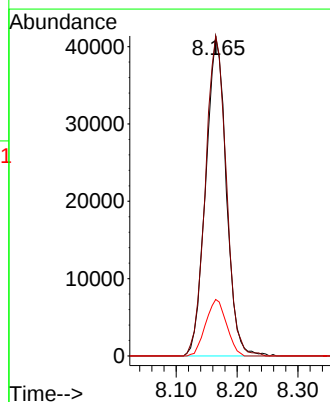
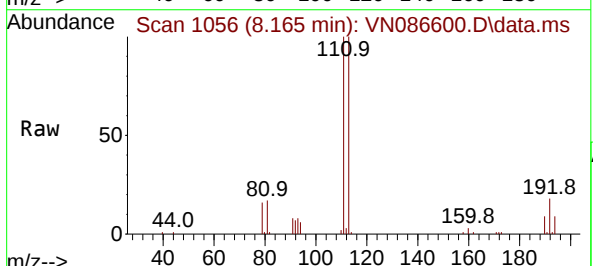
Tgt Ion:113 Resp: 96757

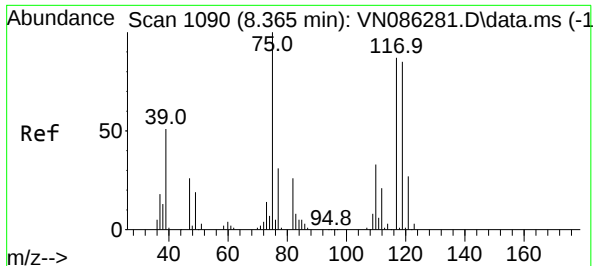
Ion Ratio Lower Upper

113 100

111 101.7 83.4 125.0

192 18.0 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.632 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086600.D

Acq: 13 May 2025 14:35

Instrument :

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PB167932ZHE#19

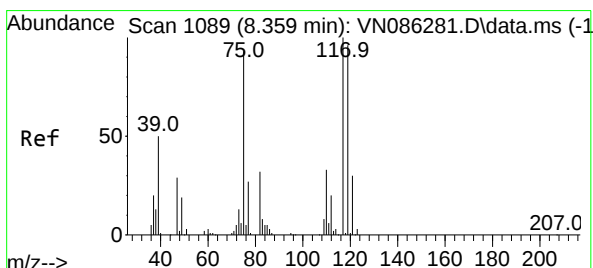
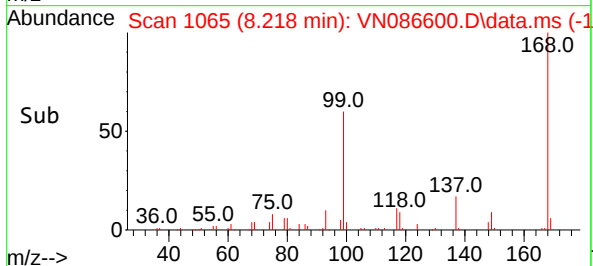
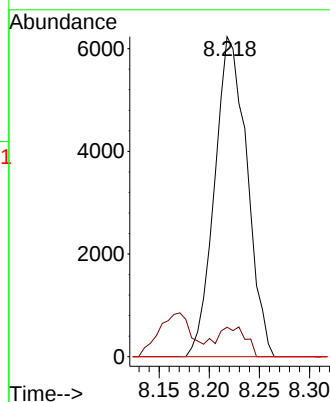
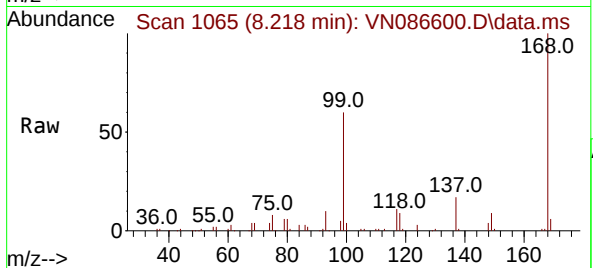
Tgt Ion: 75 Resp: 13955

Ion Ratio Lower Upper

75 100

110 8.7 16.8 50.4#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 6.083 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN086600.D

Acq: 13 May 2025 14:35

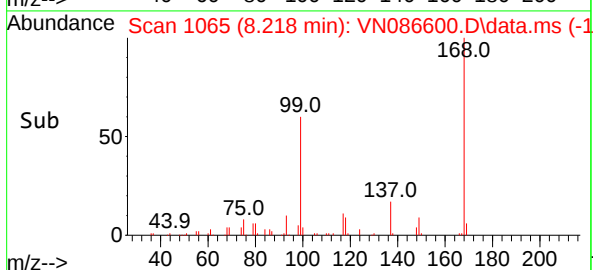
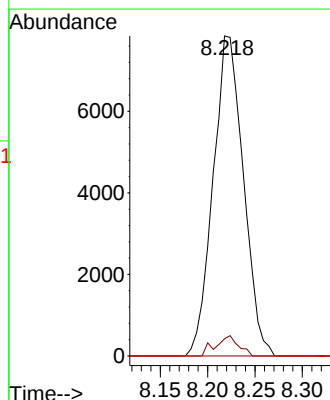
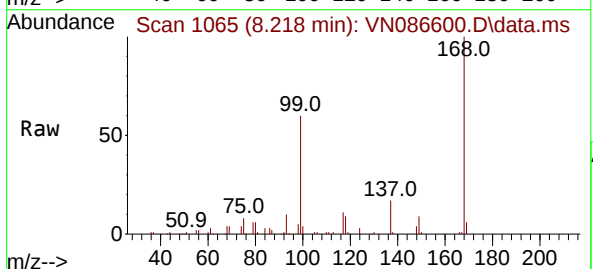
Tgt Ion: 117 Resp: 17451

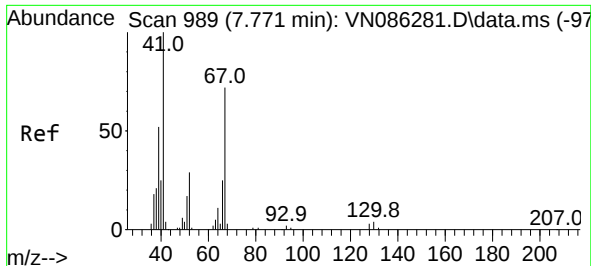
Ion Ratio Lower Upper

117 100

119 5.3 76.8 115.2#

121 0.0 23.8 35.8#

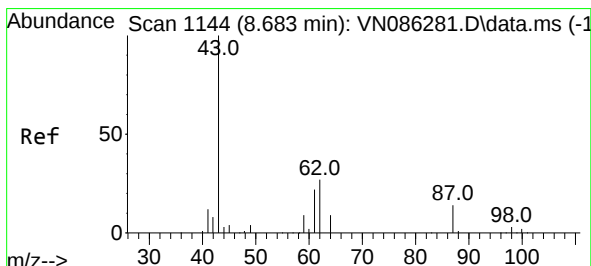
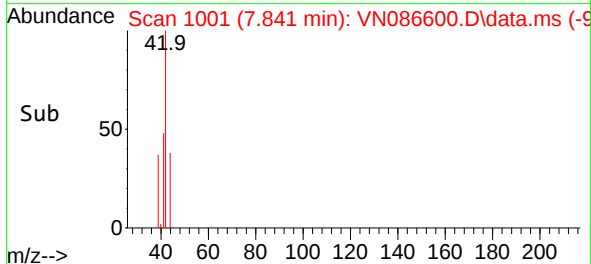
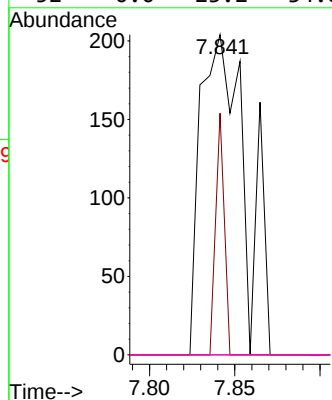
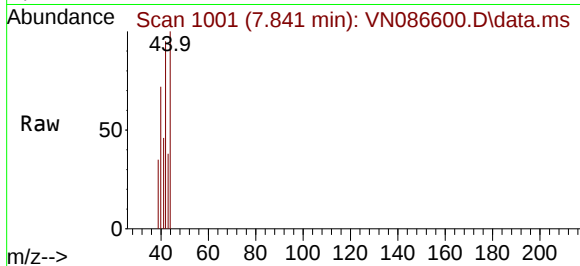




#41
Methacrylonitrile
Concen: 0.203 ug/l
RT: 7.841 min Scan# 1100
Delta R.T. 0.070 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35

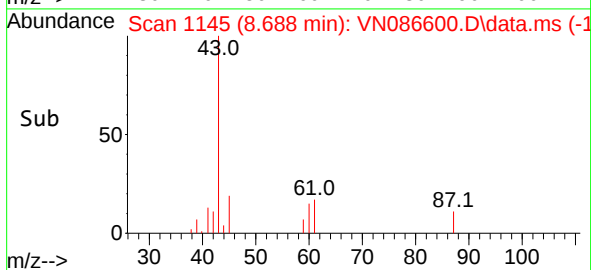
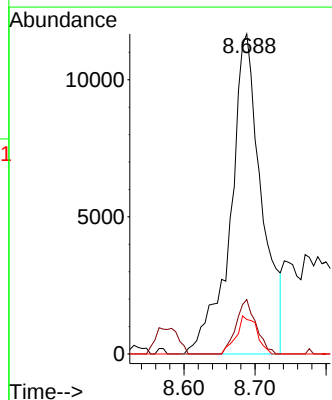
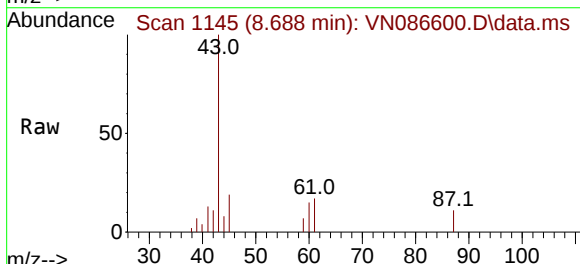
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#19

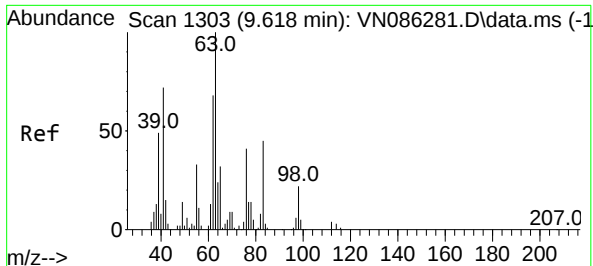
Tgt Ion: 41	Resp: 373
Ion Ratio	Lower Upper
41 100	
39 14.5	43.0 64.4#
67 0.0	58.8 88.2#
52 0.0	23.2 34.8#



#43
Isopropyl Acetate
Concen: 4.446 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35

Tgt Ion: 43	Resp: 35468
Ion Ratio	Lower Upper
43 100	
61 10.9	20.5 30.7#
87 7.8	10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.320 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.123 min

Lab File: VN086600.D

Acq: 13 May 2025 14:35

Instrument :

MSVOA_N

ClientSampleId :

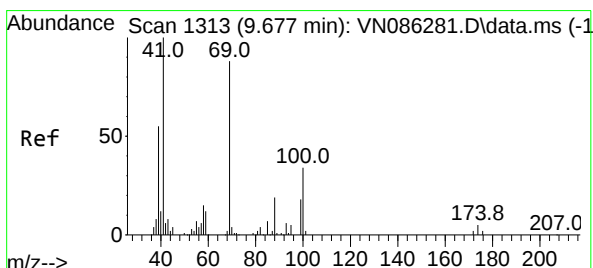
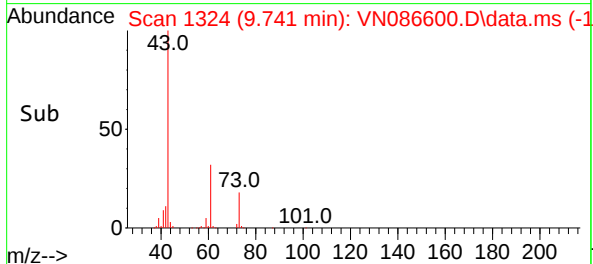
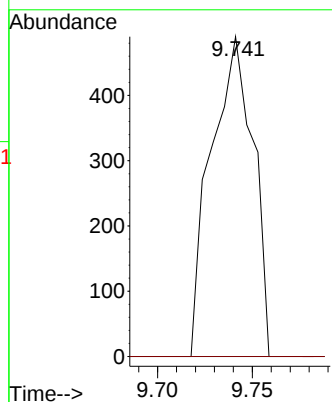
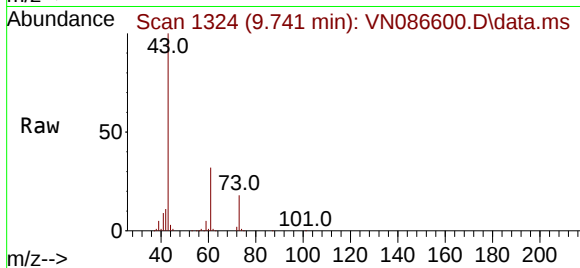
PB167932ZHE#19

Tgt Ion: 63 Resp: 756

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 22.897 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086600.D

Acq: 13 May 2025 14:35

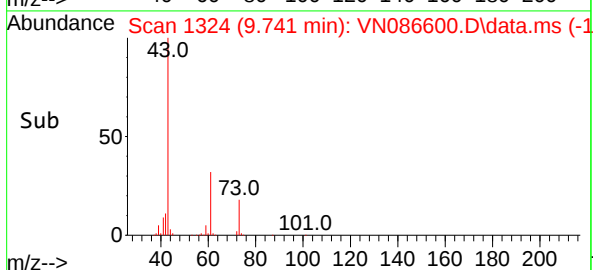
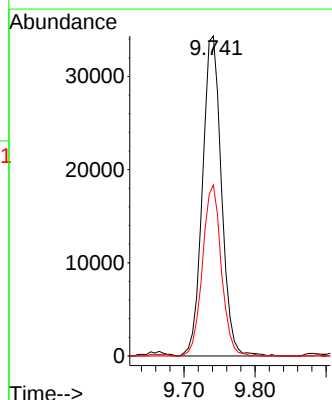
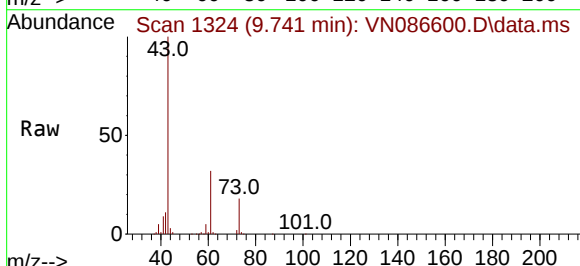
Tgt Ion: 41 Resp: 63776

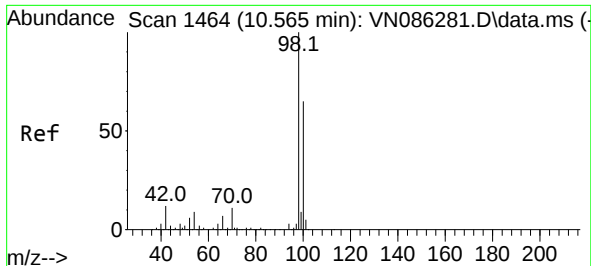
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 53.0 45.2 67.8

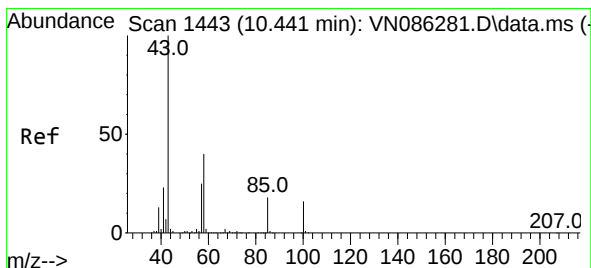
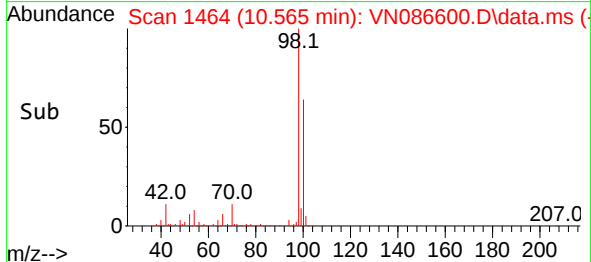
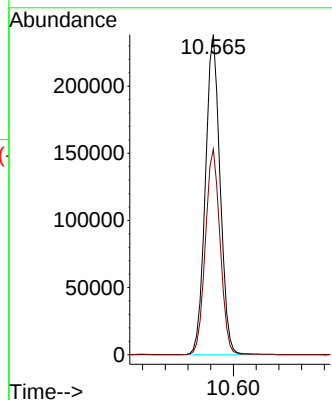
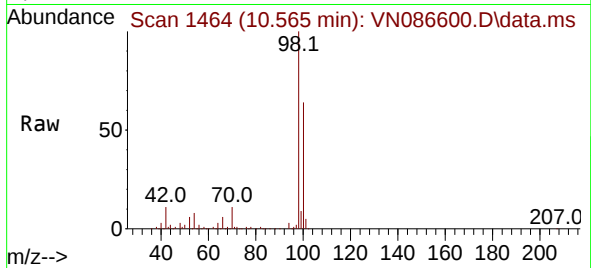




#50
Toluene-d8
Concen: 52.880 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35

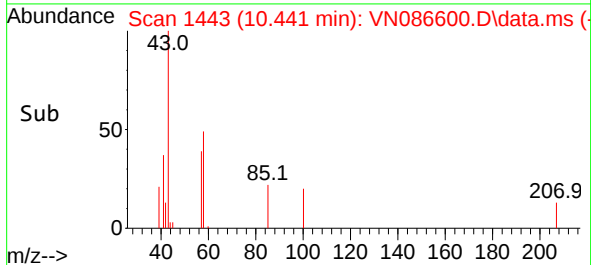
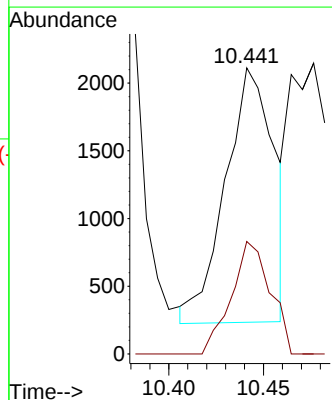
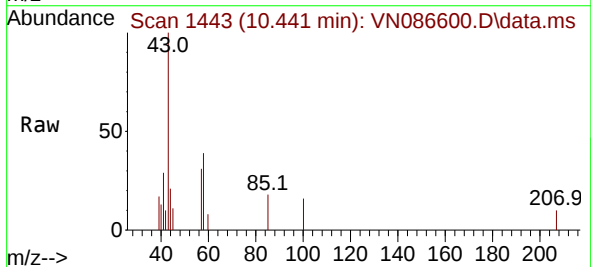
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#19

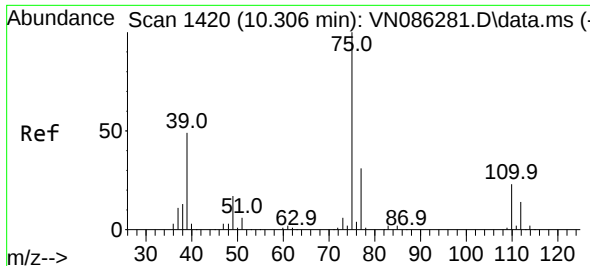
Tgt Ion: 98 Resp: 426285
Ion Ratio Lower Upper
98 100
100 64.4 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.032 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35

Tgt Ion: 43 Resp: 3352
Ion Ratio Lower Upper
43 100
58 35.5 32.2 48.4

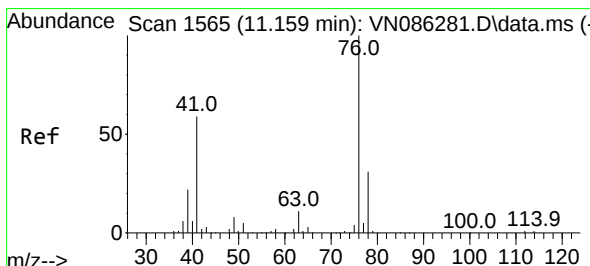
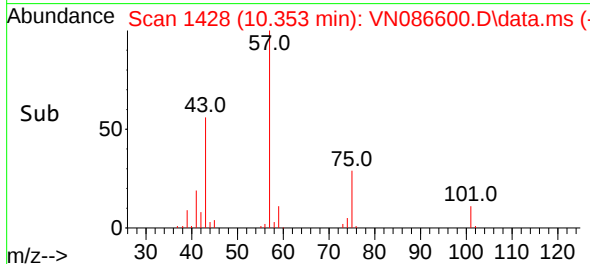
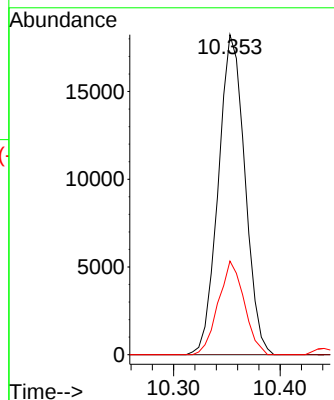
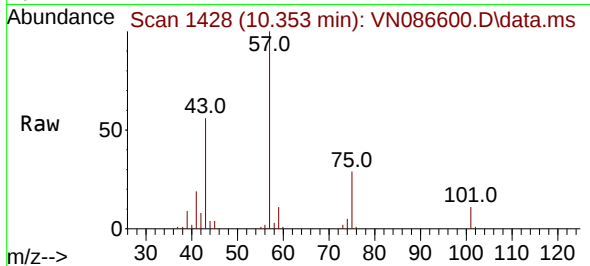




#54
 cis-1,3-Dichloropropene
 Concen: 7.919 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086600.D
 Acq: 13 May 2025 14:35

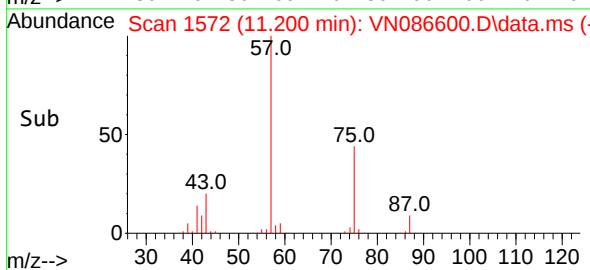
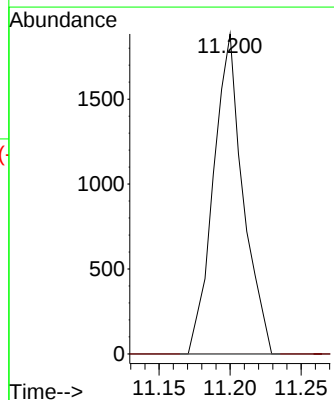
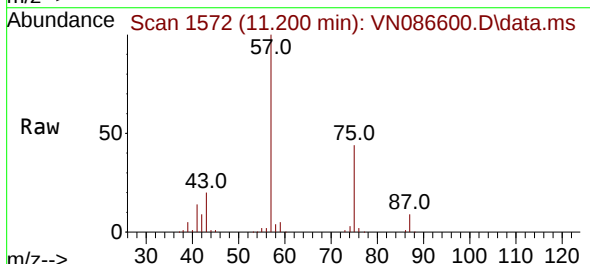
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#19

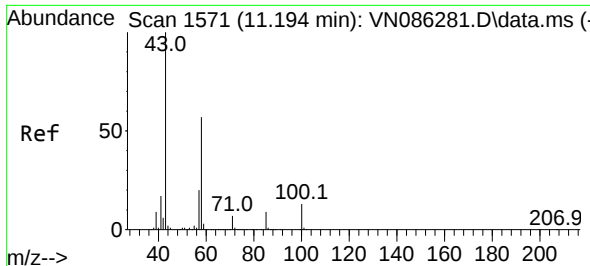
Tgt Ion: 75 Resp: 31569
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 29.3 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.712 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086600.D
 Acq: 13 May 2025 14:35

Tgt Ion: 76 Resp: 2737
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

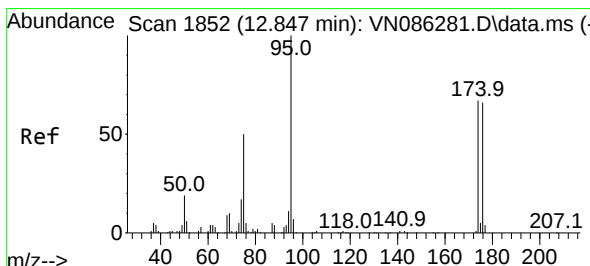
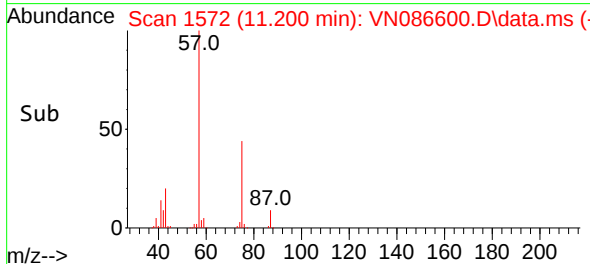
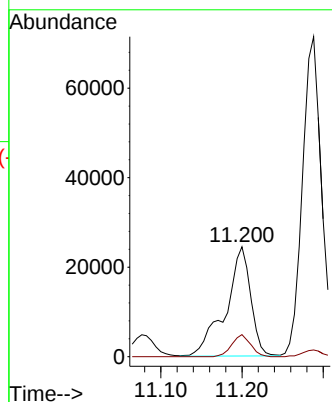
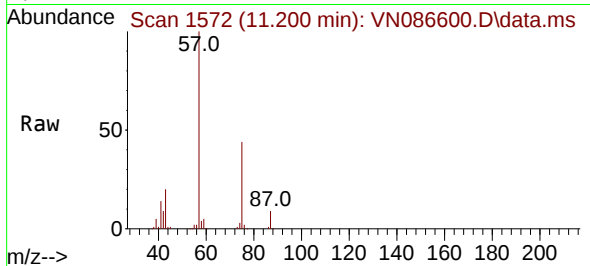




#59
2-Hexanone
Concen: 21.747 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35

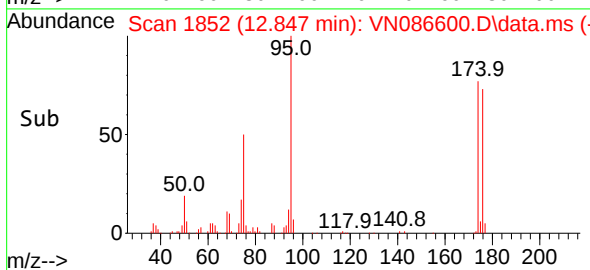
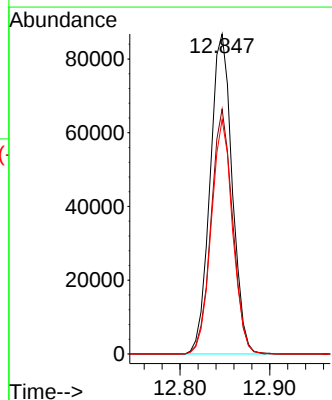
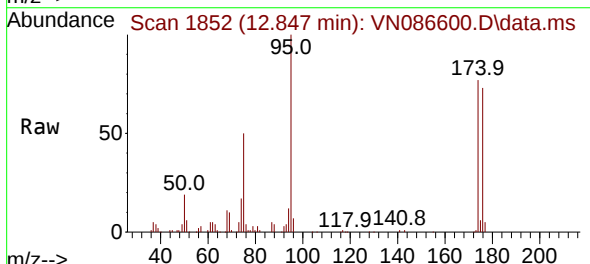
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#19

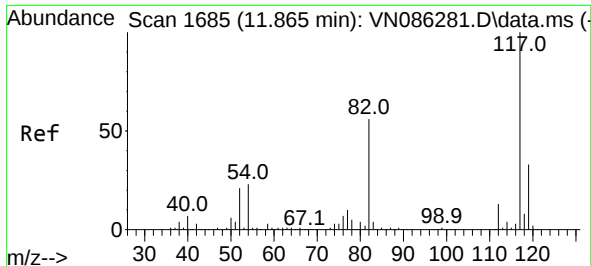
Tgt Ion: 43 Resp: 52391
Ion Ratio Lower Upper
43 100
58 15.1 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 50.336 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35

Tgt Ion: 95 Resp: 148003
Ion Ratio Lower Upper
95 100
174 74.6 0.0 133.4
176 71.0 0.0 129.2

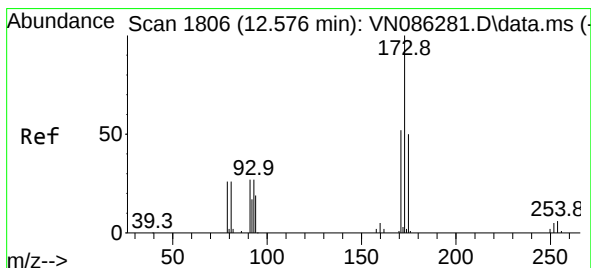
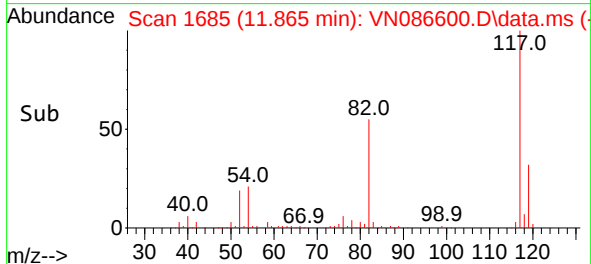
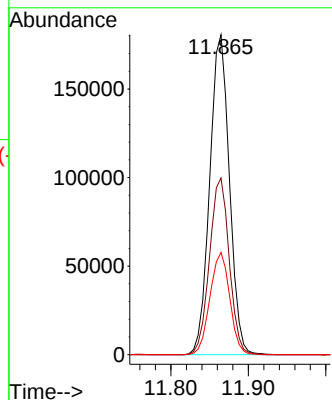
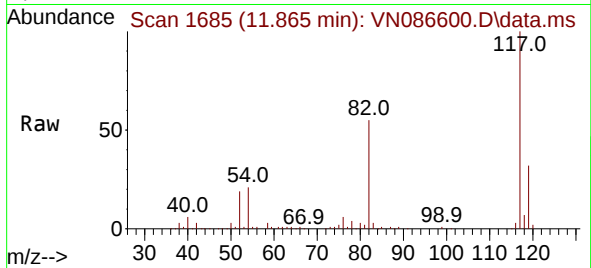




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35

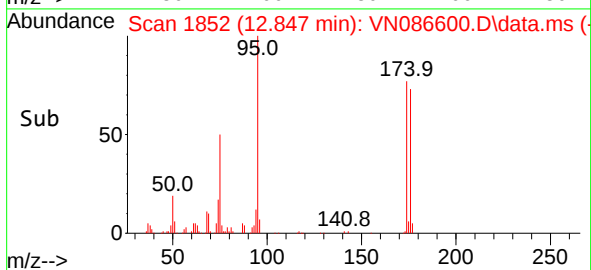
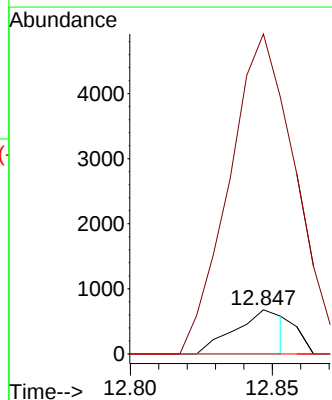
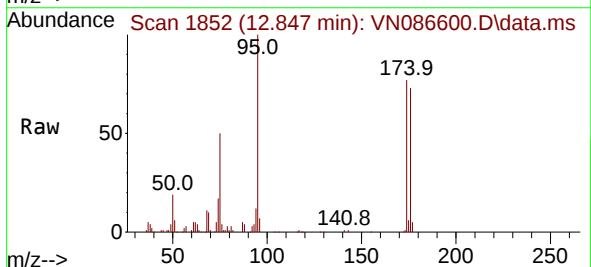
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#19

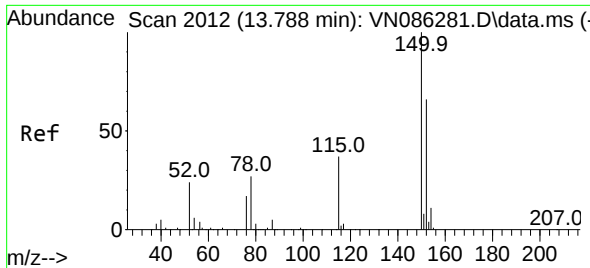
Tgt Ion:117 Resp: 318403
Ion Ratio Lower Upper
117 100
82 55.2 44.7 67.1
119 32.0 26.4 39.6



#71
Bromoform
Concen: 0.453 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35

Tgt Ion:173 Resp: 800
Ion Ratio Lower Upper
173 100
175 792.5 24.6 73.6#
254 0.0 0.0 0.0

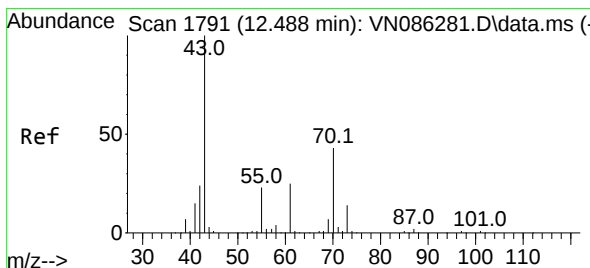
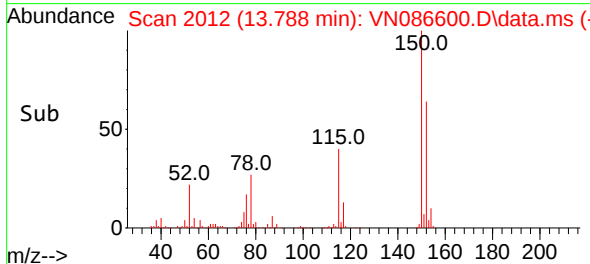
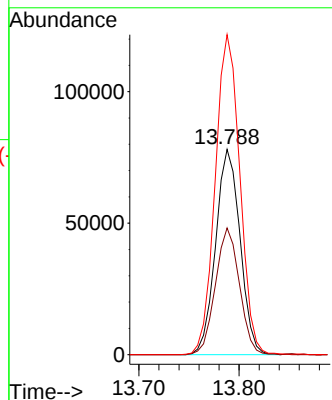
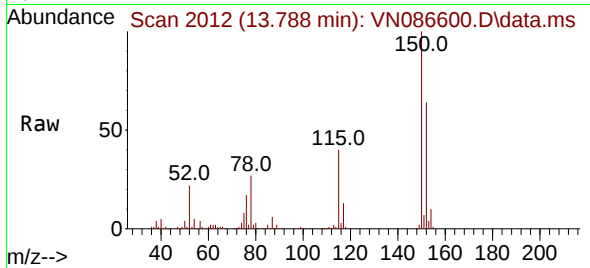




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35

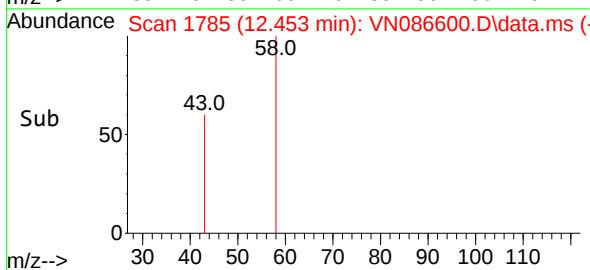
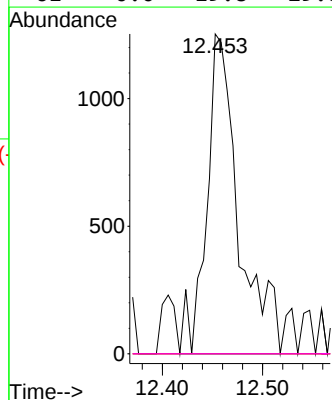
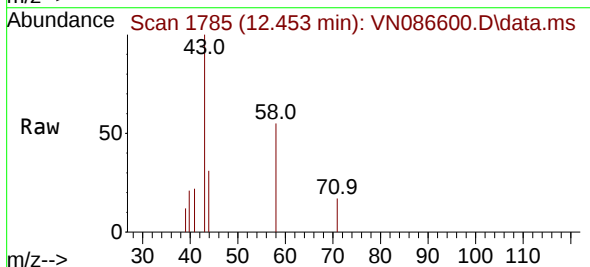
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#19

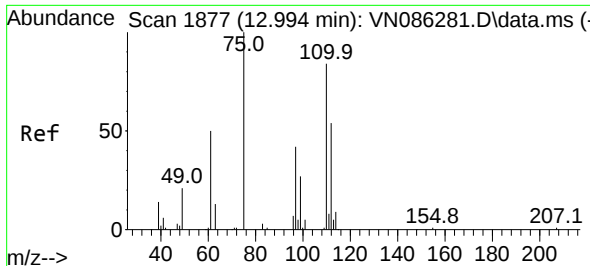
Tgt Ion:152 Resp: 132162
Ion Ratio Lower Upper
152 100
115 60.7 31.9 95.9
150 157.2 0.0 352.0



#74
N-ethyl acetate
Concen: 0.516 ug/l
RT: 12.453 min Scan# 1785
Delta R.T. -0.035 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35

Tgt Ion: 43 Resp: 2776
Ion Ratio Lower Upper
43 100
70 0.0 35.0 52.4#
55 0.0 19.0 28.4#
61 0.0 19.8 29.8#

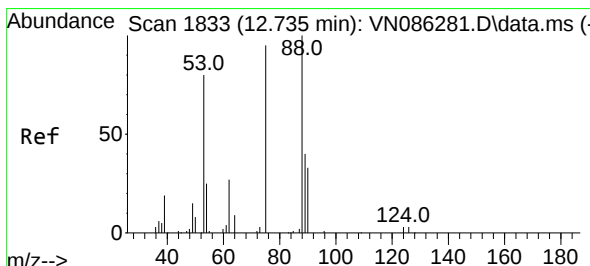
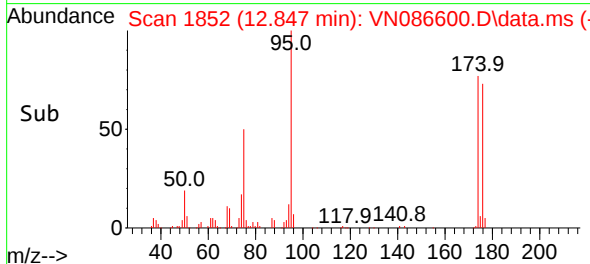
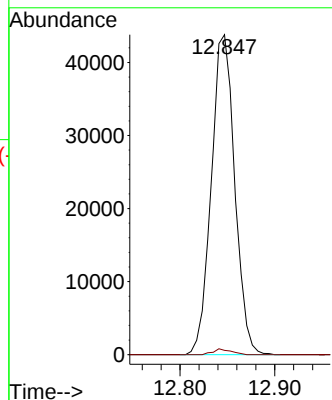
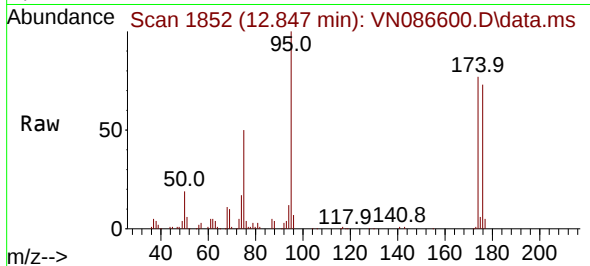




#76
1,2,3-Trichloropropane
Concen: 24.158 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#19

Tgt Ion: 75 Resp: 75343
Ion Ratio Lower Upper
75 100
77 1.4 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 58.017 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086600.D
Acq: 13 May 2025 14:35

Tgt Ion: 75 Resp: 75343
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

