

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051525\
 Data File : VN086647.D
 Acq On : 15 May 2025 16:00
 Operator : JC\MD
 Sample : PB167995ZHE#09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#09

Quant Time: May 16 05:29:24 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

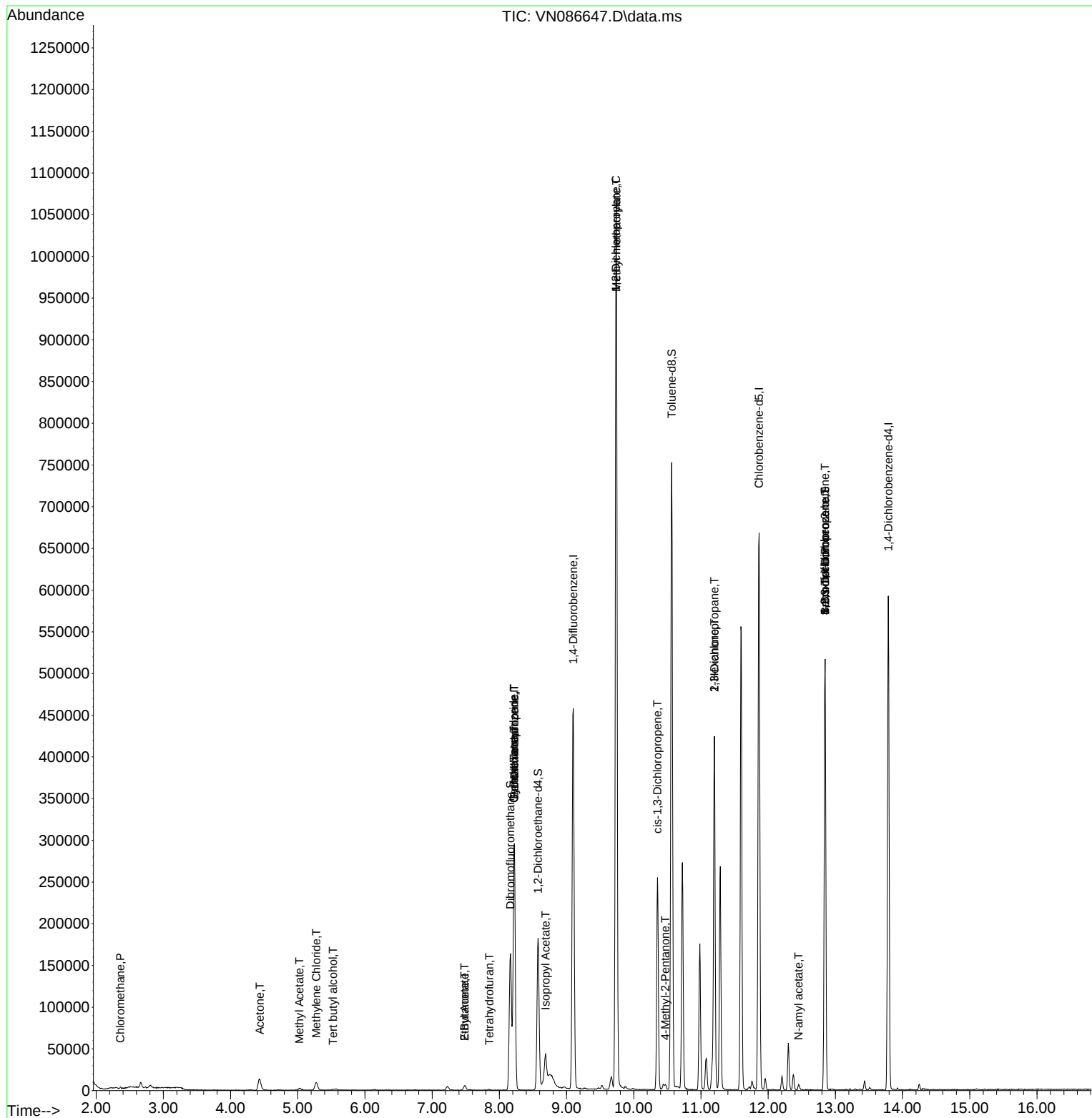
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	223563	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	420929	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	410683	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	166378	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	150898	46.547	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	93.100%
35) Dibromofluoromethane	8.165	113	124254	63.603	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	127.200%#
50) Toluene-d8	10.565	98	542015	51.913	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.820%
62) 4-Bromofluorobenzene	12.847	95	192311	50.499	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.000%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	874	0.227	ug/l #	77
11) Tert butyl alcohol	5.524	59	1391	2.352	ug/l #	72
16) Acetone	4.436	43	27976	19.703	ug/l	98
18) Methyl Acetate	5.024	43	4888	1.256	ug/l #	70
20) Methylene Chloride	5.277	84	7753	2.587	ug/l	96
25) 2-Butanone	7.483	43	9865	4.889	ug/l	97
29) Tetrahydrofuran	7.853	42	854	0.633	ug/l #	39
31) Cyclohexane	8.218	56	4606	0.877	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	17228	4.415	ug/l #	51
37) Ethyl Acetate	7.483	43	9865	2.401	ug/l #	68
38) Carbon Tetrachloride	8.218	117	21960	5.910	ug/l #	17
43) Isopropyl Acetate	8.688	43	63566	6.882	ug/l #	75
45) 1,2-Dichloropropane	9.735	63	1471	0.481	ug/l #	43
48) Methyl methacrylate	9.741	41	93687	25.970	ug/l #	41
51) 4-Methyl-2-Pentanone	10.471	43	4834	1.149	ug/l #	35
54) cis-1,3-Dichloropropene	10.353	75	48814	9.454	ug/l #	56
57) 1,3-Dichloropropane	11.200	76	4294	0.862	ug/l #	43
59) 2-Hexanone	11.200	43	82762	26.525	ug/l #	45
71) Bromoform	12.847	173	969	0.426	ug/l #	1
74) N-amyl acetate	12.453	43	5659	0.835	ug/l #	44
76) 1,2,3-Trichloropropane	12.847	75	94248	24.004	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	94248	57.650	ug/l #	10

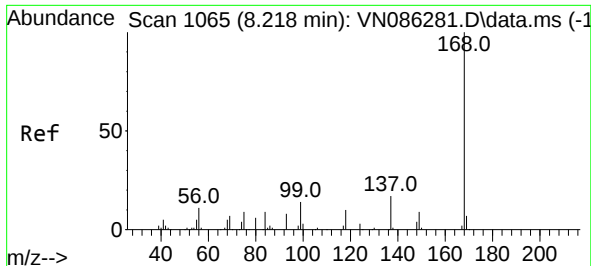
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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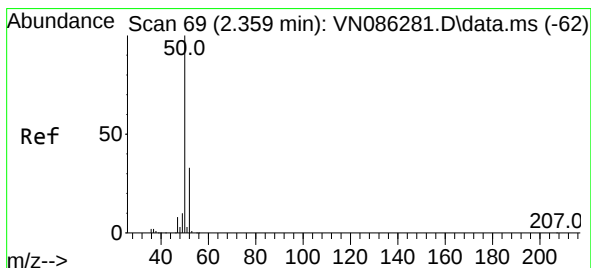
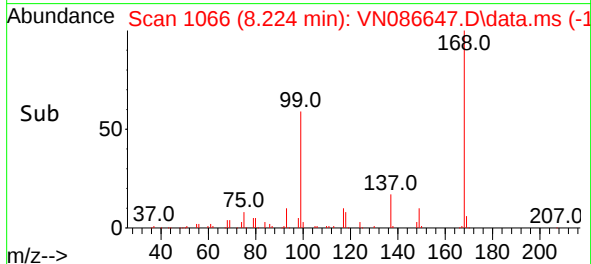
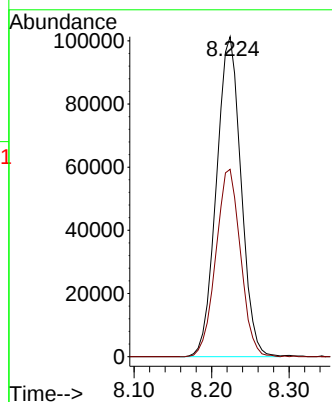
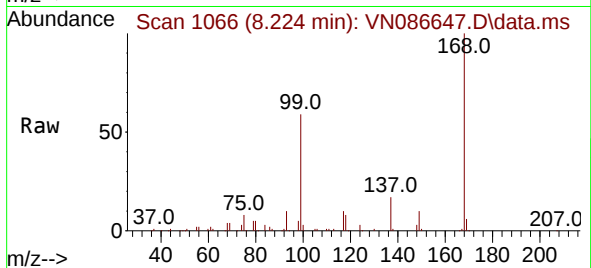




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN086647.D
Acq: 15 May 2025 16:00

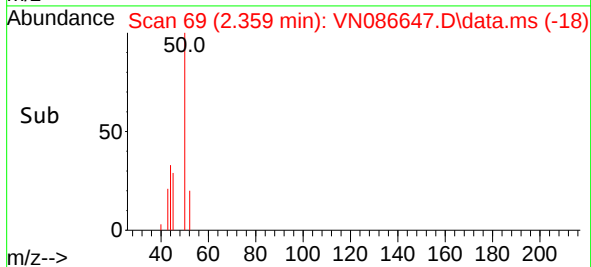
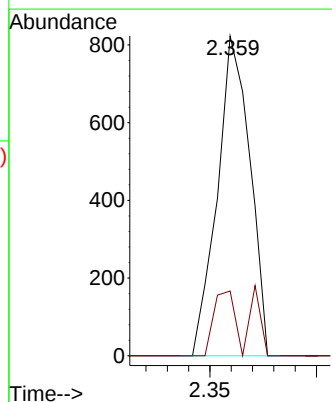
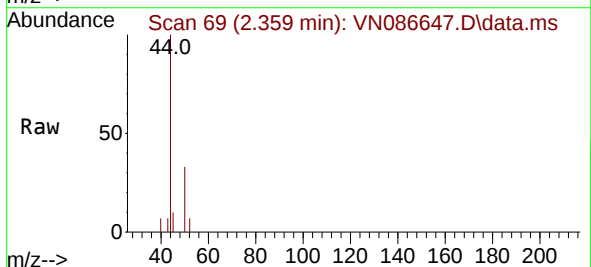
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#09

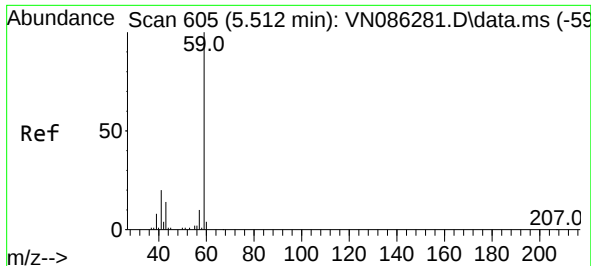
Tgt Ion:168 Resp: 223563
Ion Ratio Lower Upper
168 100
99 58.5 52.5 78.7



#3
Chloromethane
Concen: 0.227 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086647.D
Acq: 15 May 2025 16:00

Tgt Ion: 50 Resp: 874
Ion Ratio Lower Upper
50 100
52 20.3 26.5 39.7#

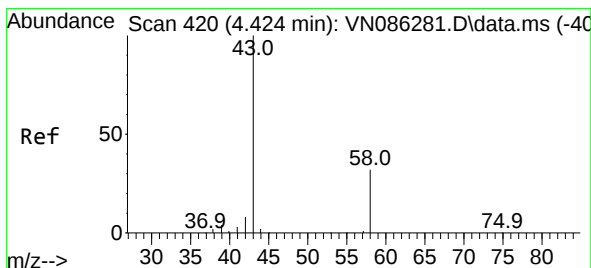
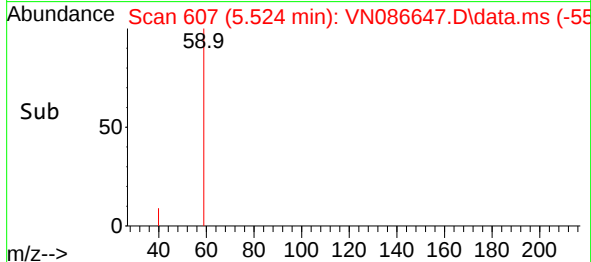
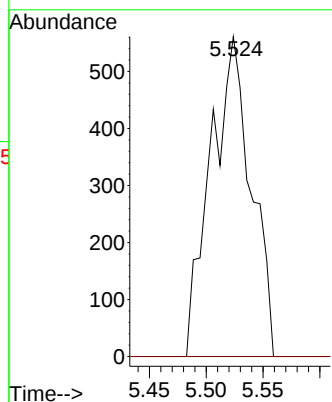
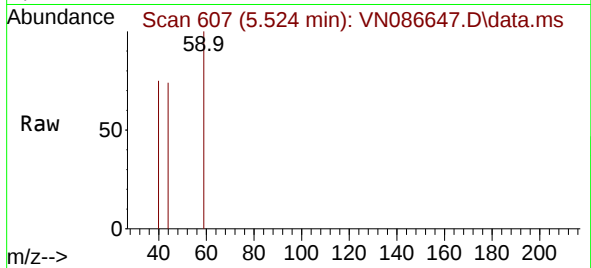




#11
Tert butyl alcohol
Concen: 2.352 ug/l
RT: 5.524 min Scan# 605
Delta R.T. 0.012 min
Lab File: VN086647.D
Acq: 15 May 2025 16:00

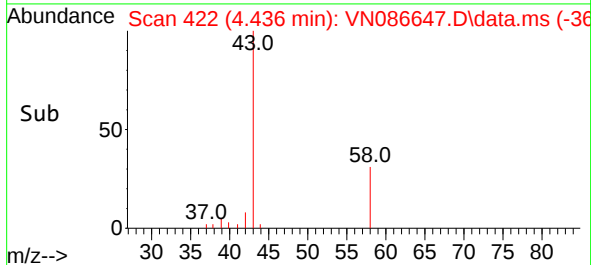
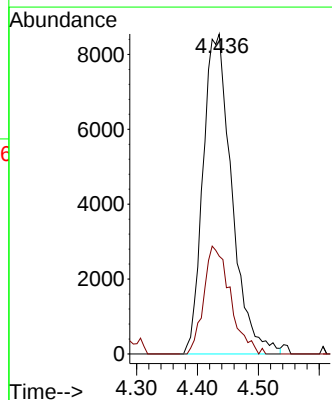
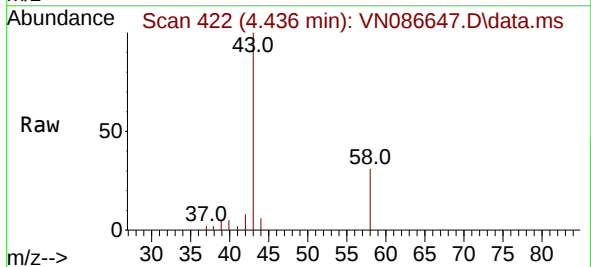
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#09

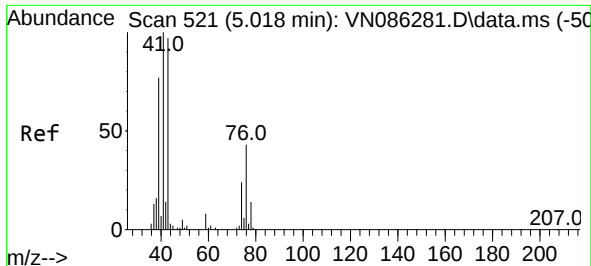
Tgt Ion: 59 Resp: 1391
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 19.703 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN086647.D
Acq: 15 May 2025 16:00

Tgt Ion: 43 Resp: 27976
Ion Ratio Lower Upper
43 100
58 30.5 25.3 37.9

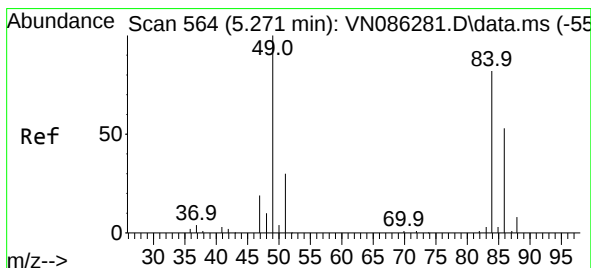
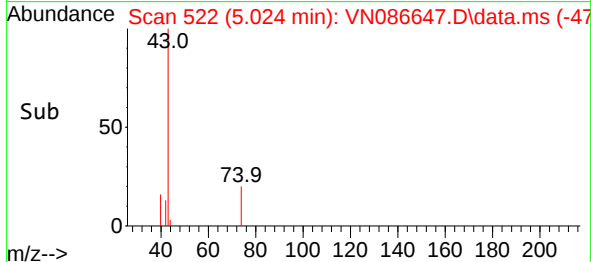
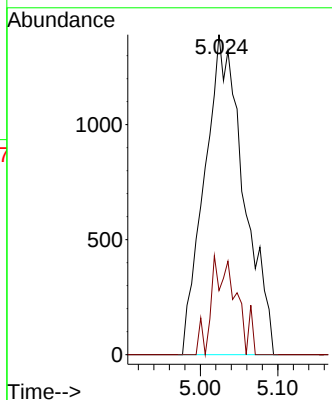
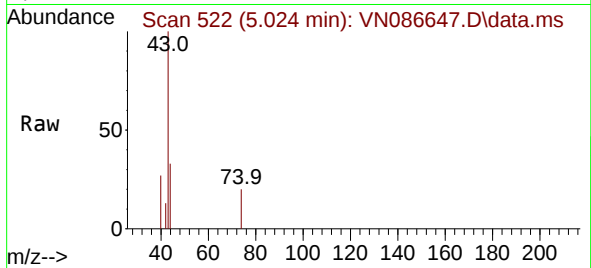




#18
Methyl Acetate
Concen: 1.256 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086647.D
Acq: 15 May 2025 16:00

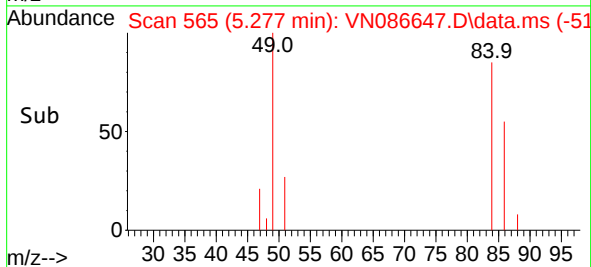
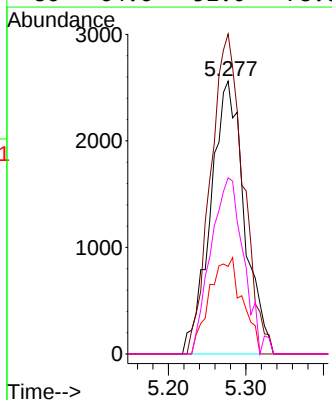
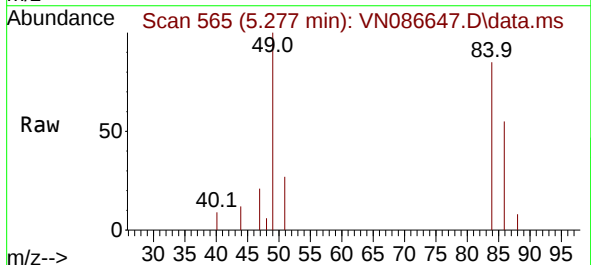
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#09

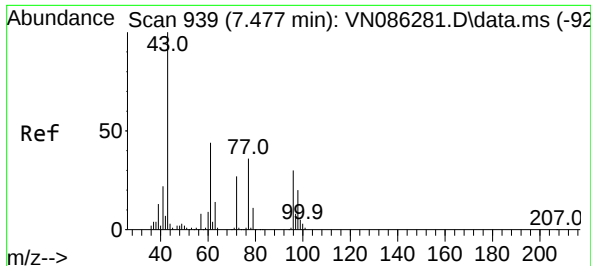
Tgt Ion: 43 Resp: 4888
Ion Ratio Lower Upper
43 100
74 9.8 19.8 29.6#



#20
Methylene Chloride
Concen: 2.587 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086647.D
Acq: 15 May 2025 16:00

Tgt Ion: 84 Resp: 7753
Ion Ratio Lower Upper
84 100
49 117.3 98.2 147.2
51 32.1 29.8 44.6
86 64.6 52.0 78.0

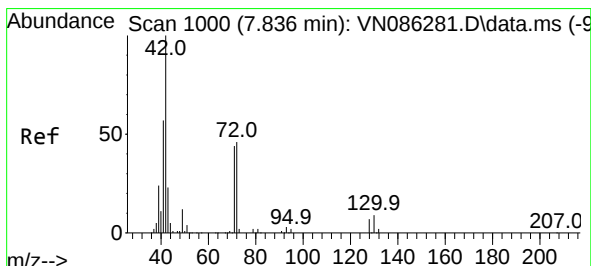
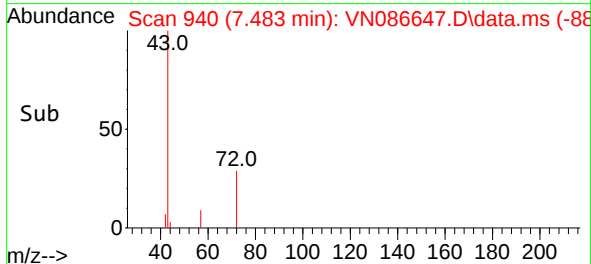
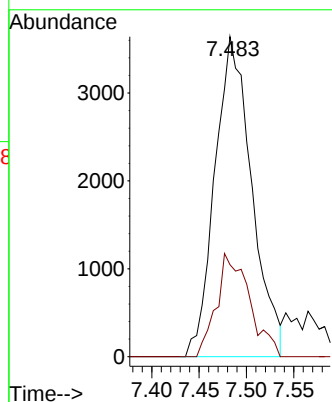
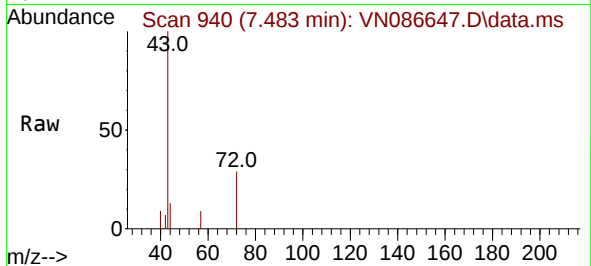




#25
2-Butanone
Concen: 4.889 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN086647.D
Acq: 15 May 2025 16:00

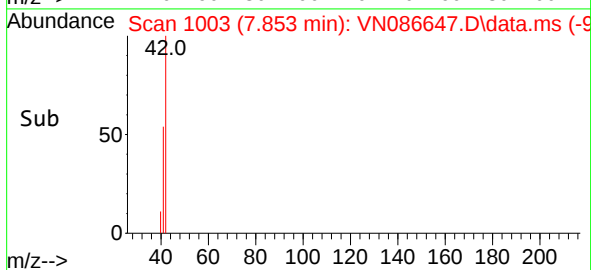
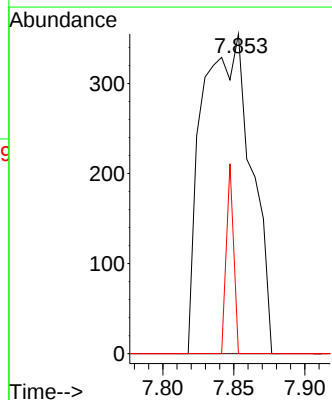
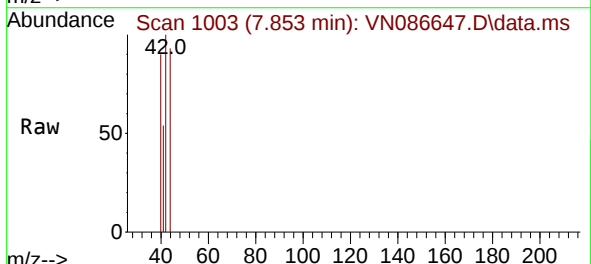
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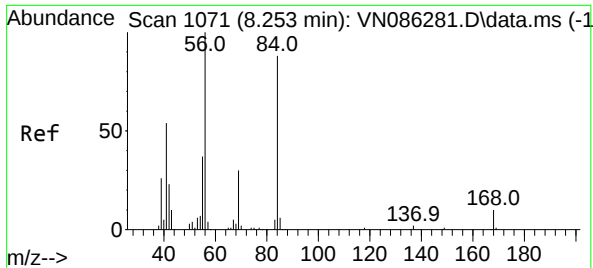
Tgt Ion: 43 Resp: 9865
Ion Ratio Lower Upper
43 100
72 28.8 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.633 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.018 min
Lab File: VN086647.D
Acq: 15 May 2025 16:00

Tgt Ion: 42 Resp: 854
Ion Ratio Lower Upper
42 100
72 0.0 36.2 54.4#
71 8.7 34.0 51.0#

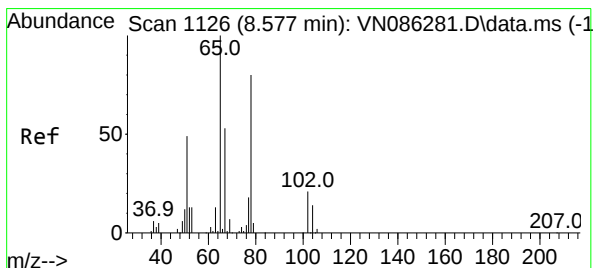
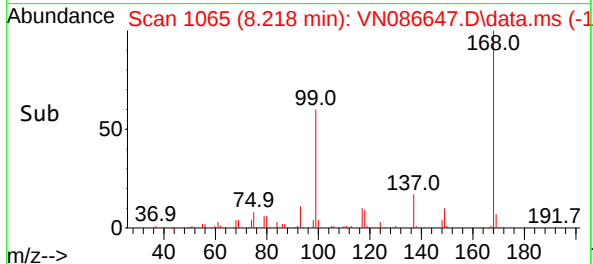
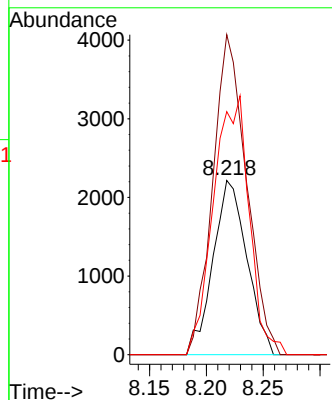
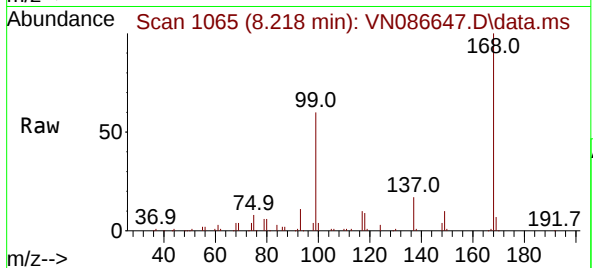




#31
Cyclohexane
Concen: 0.877 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086647.D
Acq: 15 May 2025 16:00

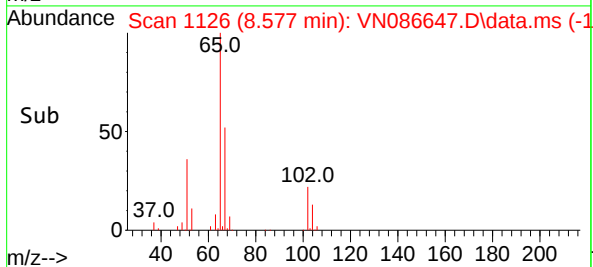
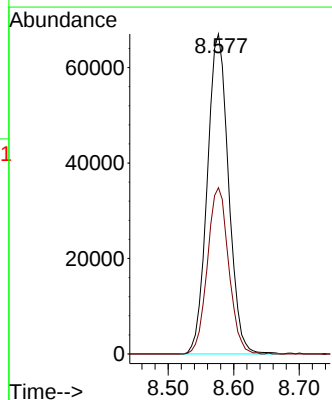
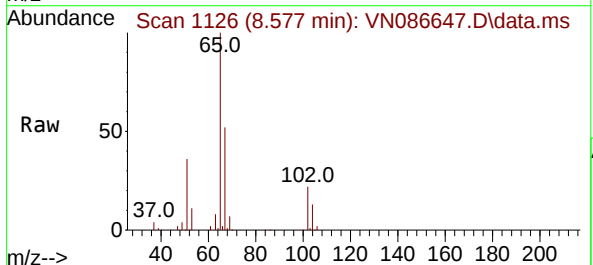
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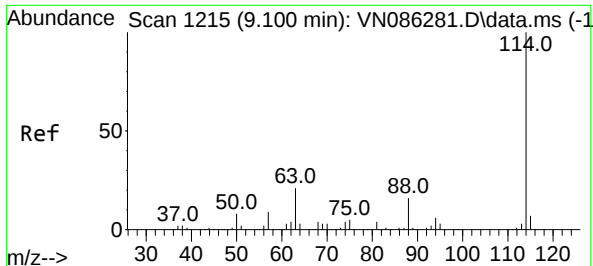
Tgt Ion: 56 Resp: 4606
Ion Ratio Lower Upper
56 100
69 183.6 24.2 36.2#
84 139.4 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 46.547 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN086647.D
Acq: 15 May 2025 16:00

Tgt Ion: 65 Resp: 150898
Ion Ratio Lower Upper
65 100
67 51.9 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: VN086647.D

Acq: 15 May 2025 16:00

Instrument :

MSVOA_N

ClientSampleId :

PB167995ZHE#09

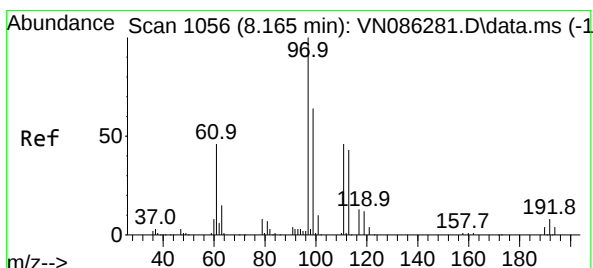
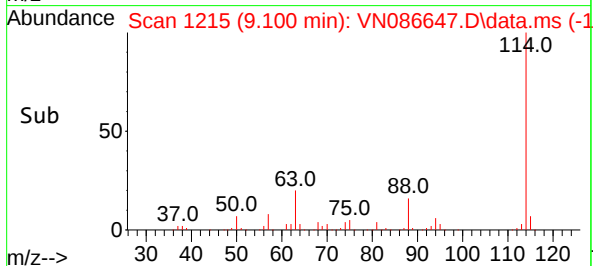
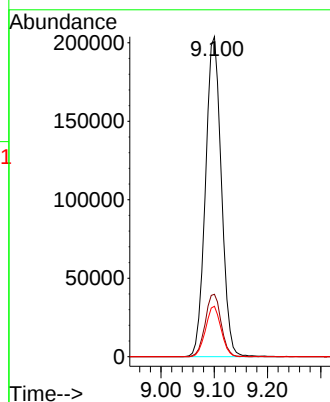
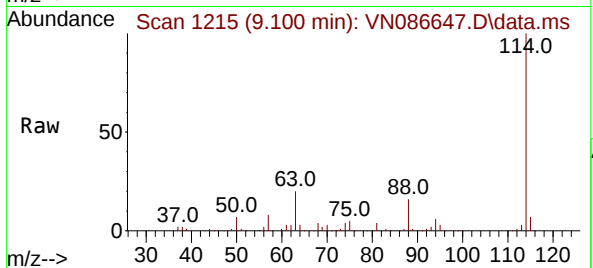
Tgt Ion:114 Resp: 420929

Ion Ratio Lower Upper

114 100

63 19.5 0.0 42.6

88 15.8 0.0 31.8



#35

Dibromofluoromethane

Concen: 63.603 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086647.D

Acq: 15 May 2025 16:00

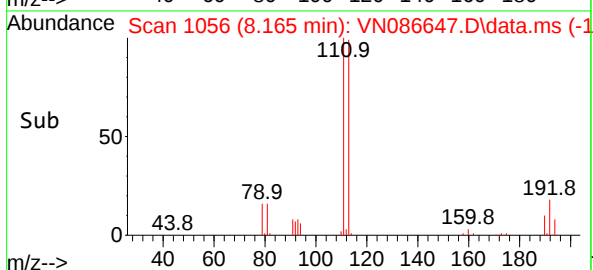
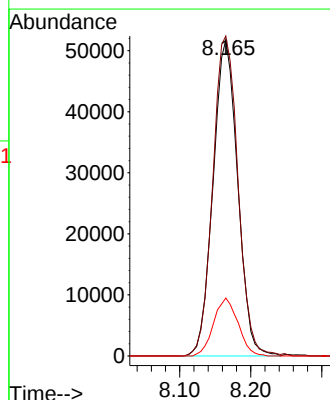
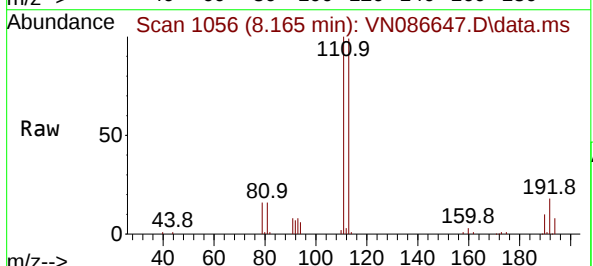
Tgt Ion:113 Resp: 124254

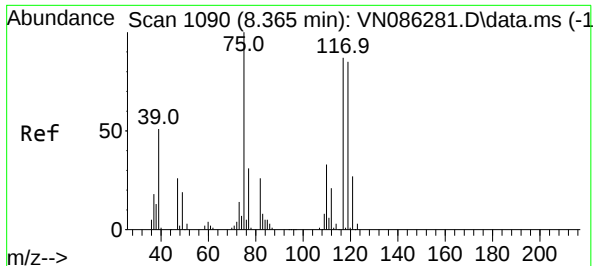
Ion Ratio Lower Upper

113 100

111 103.7 83.4 125.0

192 18.2 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.415 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN086647.D

Acq: 15 May 2025 16:00

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PB167995ZHE#09

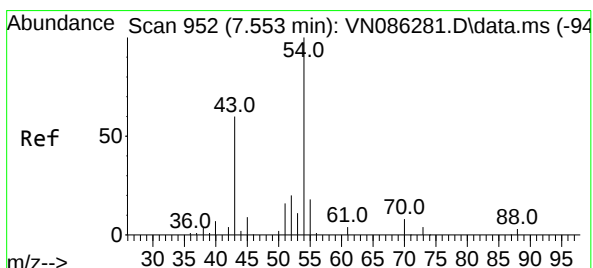
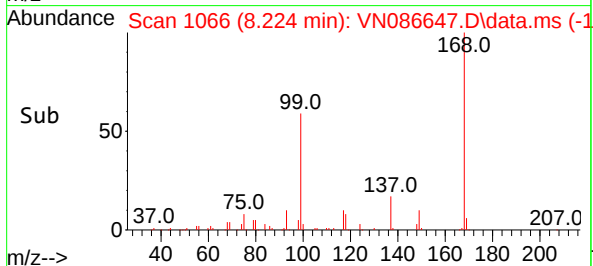
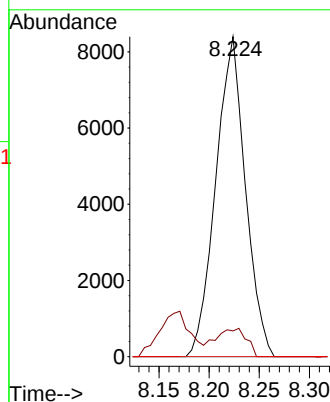
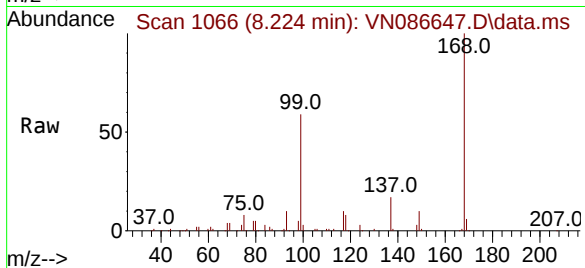
Tgt Ion: 75 Resp: 17228

Ion Ratio Lower Upper

75 100

110 9.1 16.8 50.4#

77 0.0 24.9 37.3#



#37

Ethyl Acetate

Concen: 2.401 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.071 min

Lab File: VN086647.D

Acq: 15 May 2025 16:00

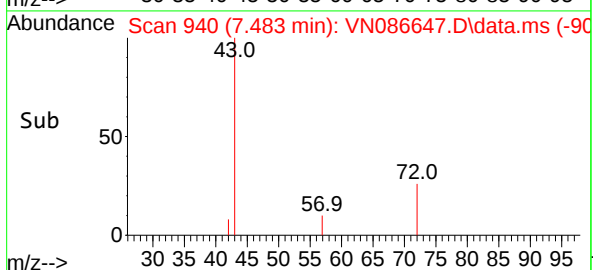
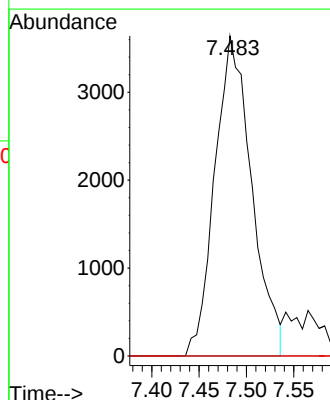
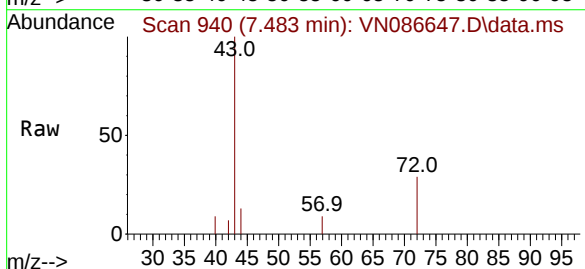
Tgt Ion: 43 Resp: 9865

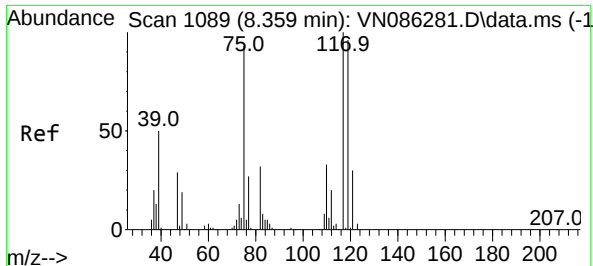
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

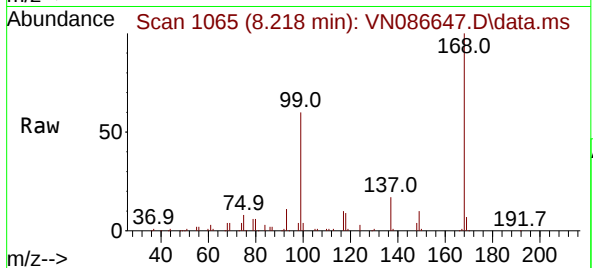
70 0.0 9.2 13.8#



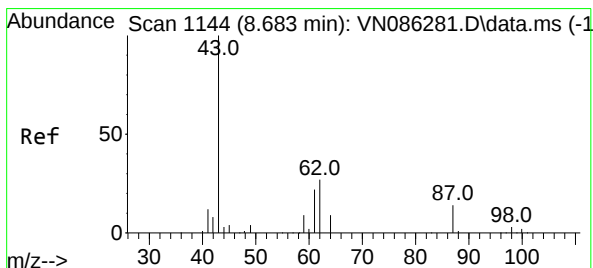
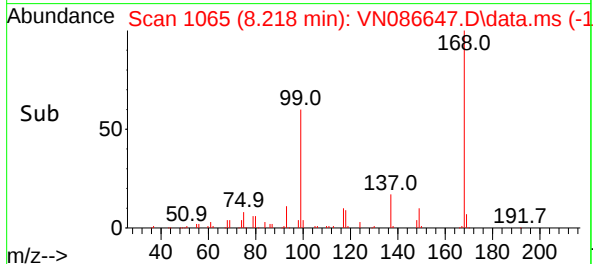
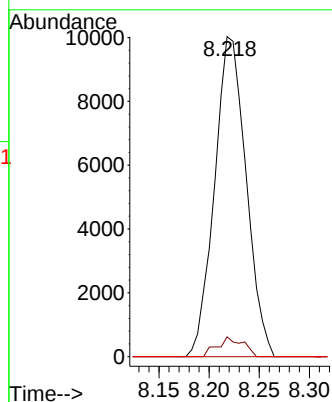


#38
Carbon Tetrachloride
Concen: 5.910 ug/l
RT: 8.218 min Scan# 1105
Delta R.T. -0.141 min
Lab File: VN086647.D
Acq: 15 May 2025 16:00

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#09

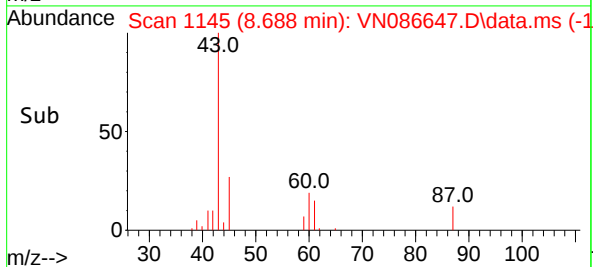
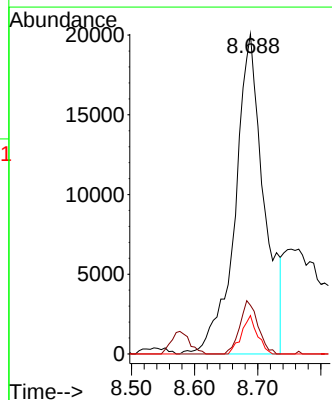
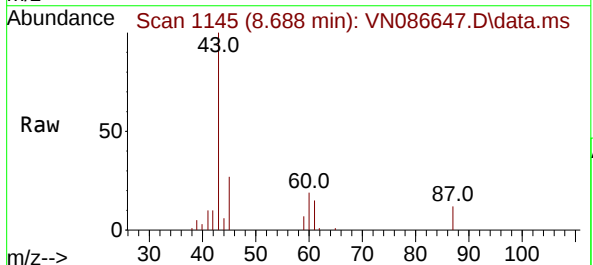


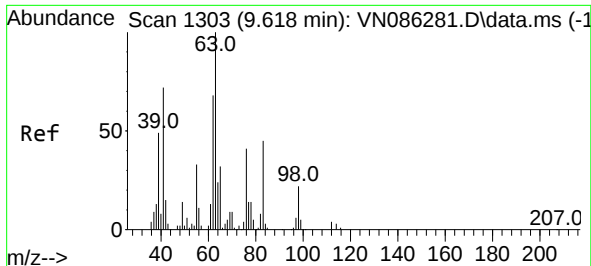
Tgt Ion:117 Resp: 21960
Ion Ratio Lower Upper
117 100
119 6.2 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 6.882 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086647.D
Acq: 15 May 2025 16:00

Tgt Ion: 43 Resp: 63566
Ion Ratio Lower Upper
43 100
61 10.5 20.5 30.7#
87 6.6 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.481 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.118 min

Lab File: VN086647.D

Acq: 15 May 2025 16:00

Instrument :

MSVOA_N

ClientSampleId :

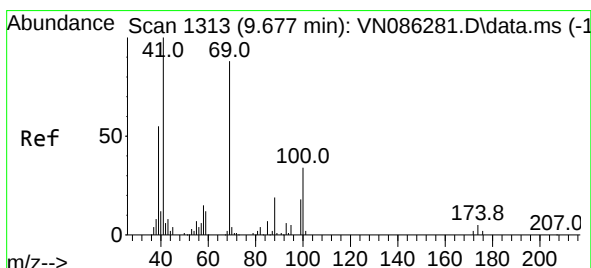
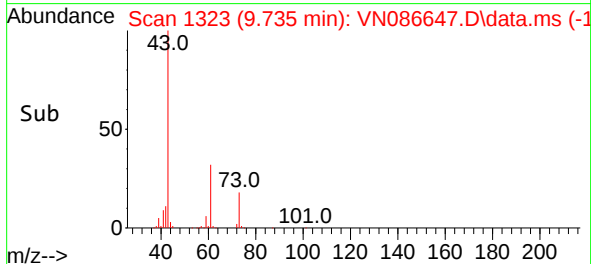
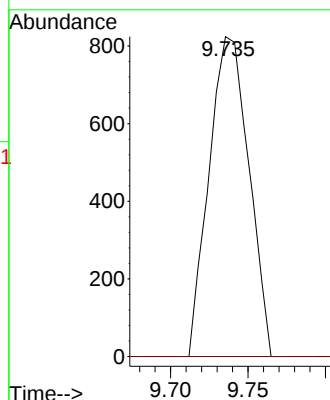
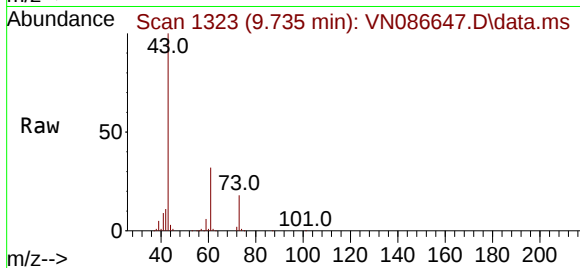
PB167995ZHE#09

Tgt Ion: 63 Resp: 1471

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 25.970 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086647.D

Acq: 15 May 2025 16:00

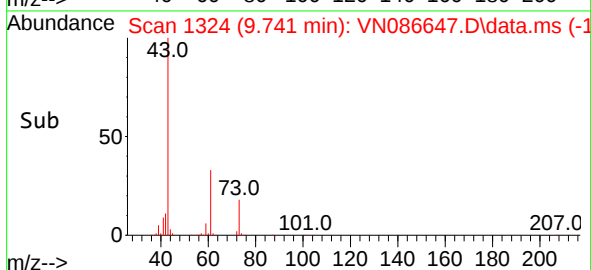
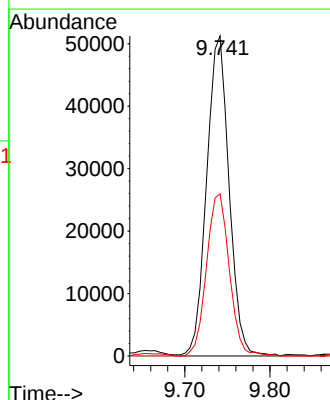
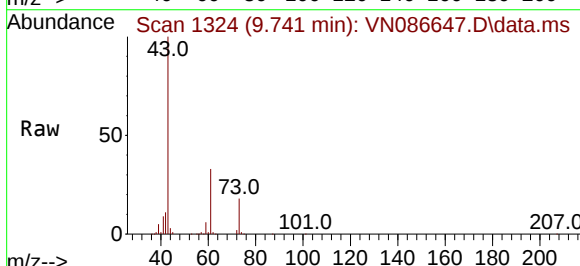
Tgt Ion: 41 Resp: 93687

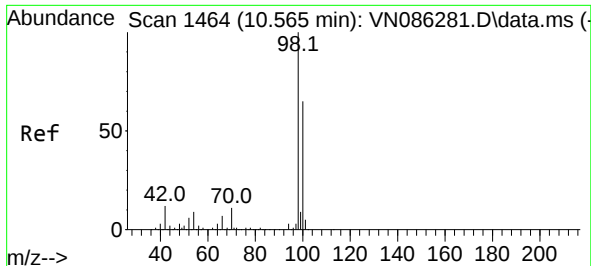
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 51.5 45.2 67.8

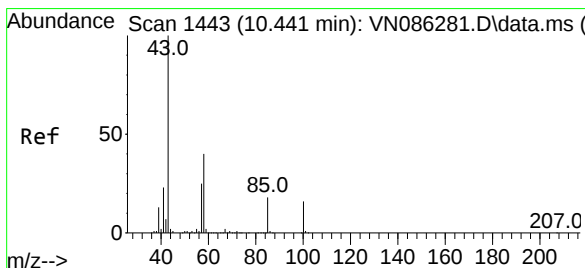
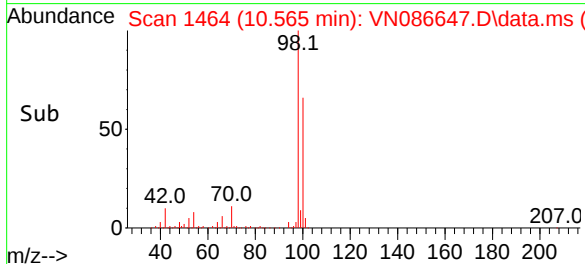
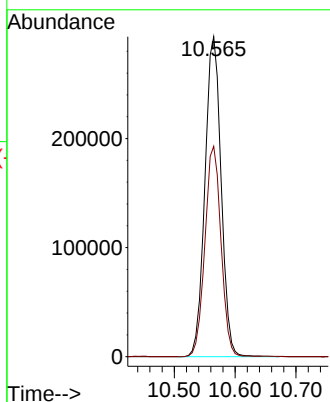
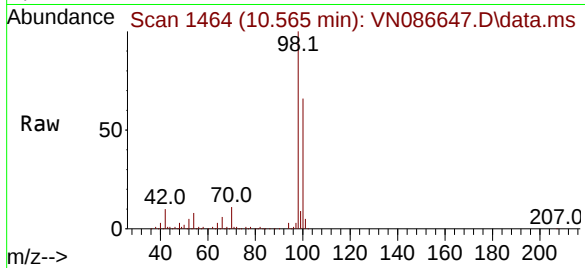




#50
Toluene-d8
Concen: 51.913 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086647.D
Acq: 15 May 2025 16:00

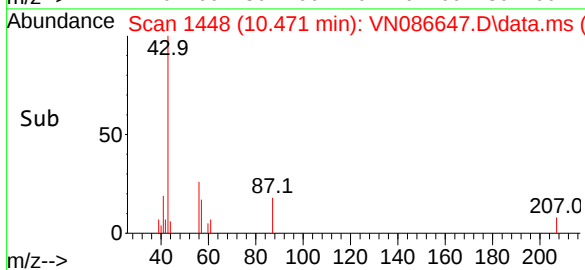
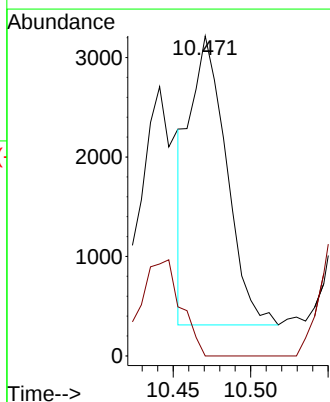
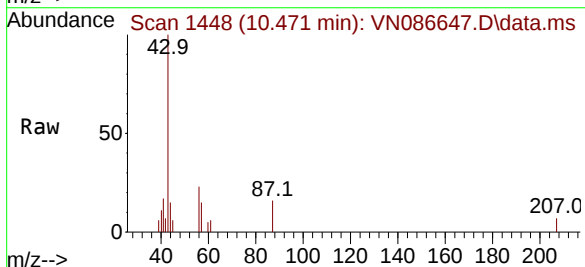
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#09

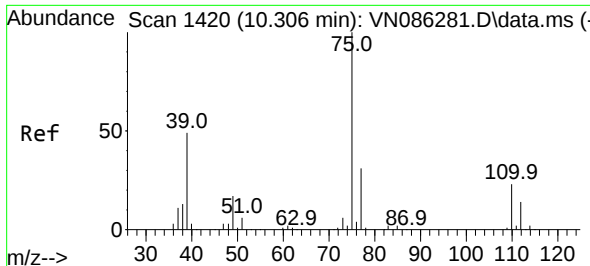
Tgt Ion: 98 Resp: 542015
Ion Ratio Lower Upper
98 100
100 65.3 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.149 ug/l
RT: 10.471 min Scan# 1448
Delta R.T. 0.029 min
Lab File: VN086647.D
Acq: 15 May 2025 16:00

Tgt Ion: 43 Resp: 4834
Ion Ratio Lower Upper
43 100
58 0.0 32.2 48.4#

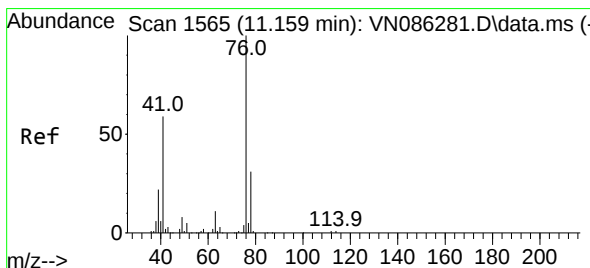
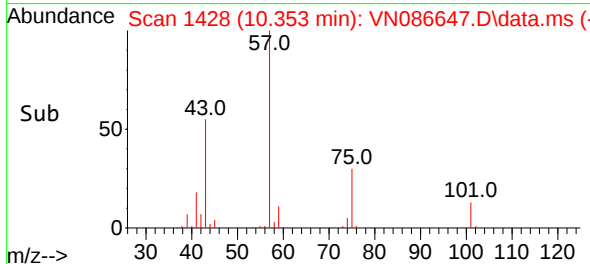
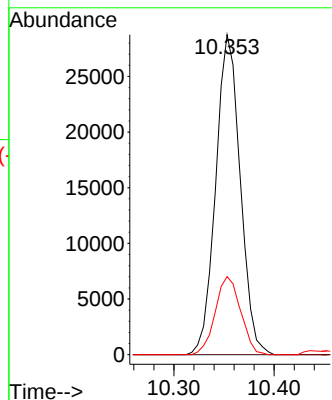
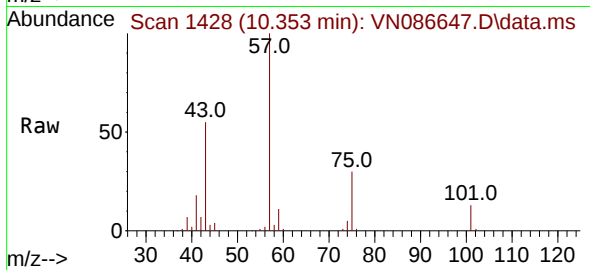




#54
 cis-1,3-Dichloropropene
 Concen: 9.454 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086647.D
 Acq: 15 May 2025 16:00

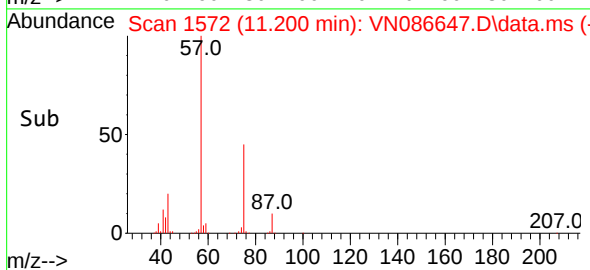
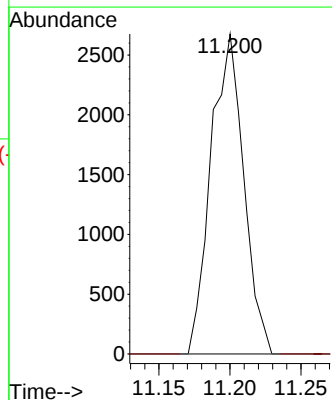
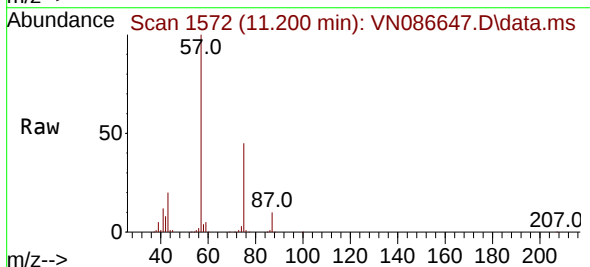
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#09

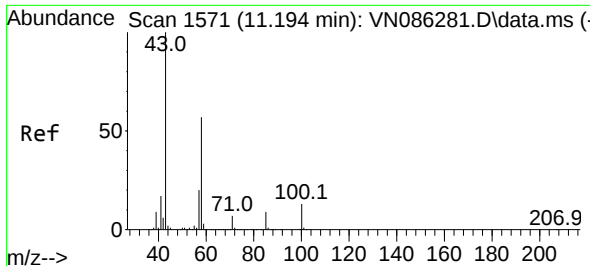
Tgt Ion: 75 Resp: 48814
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 24.4 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.862 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086647.D
 Acq: 15 May 2025 16:00

Tgt Ion: 76 Resp: 4294
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

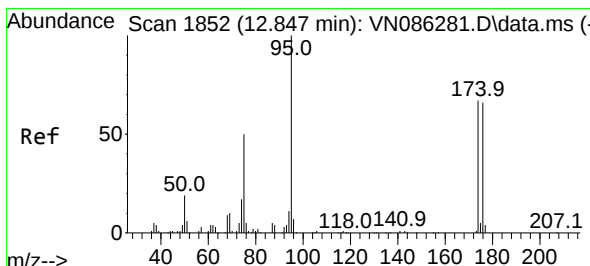
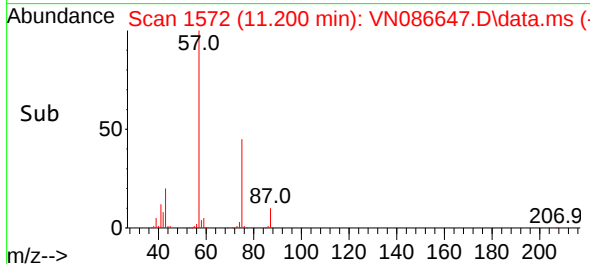
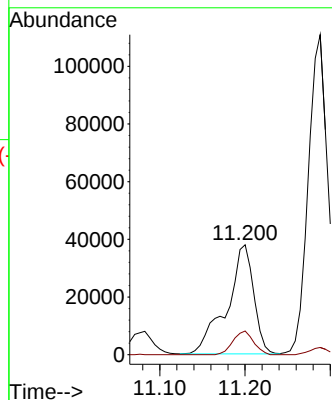
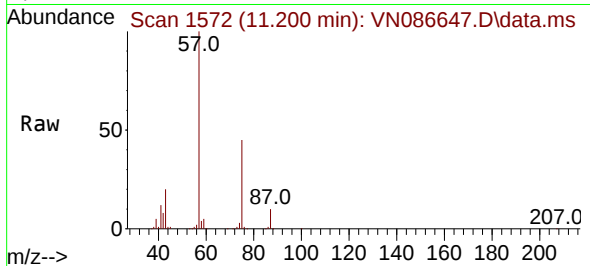




#59
2-Hexanone
Concen: 26.525 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086647.D
Acq: 15 May 2025 16:00

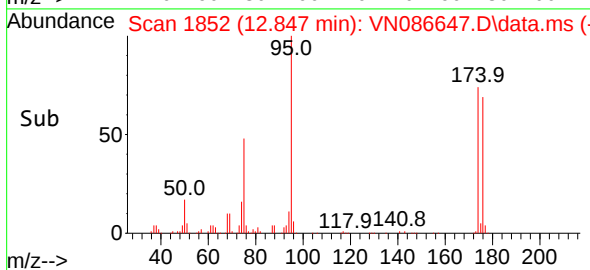
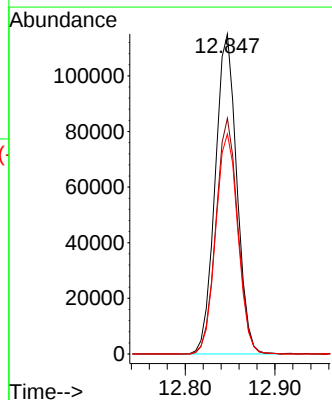
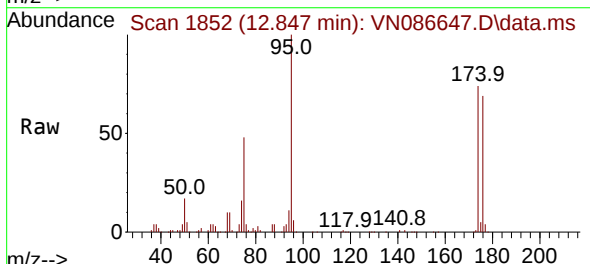
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#09

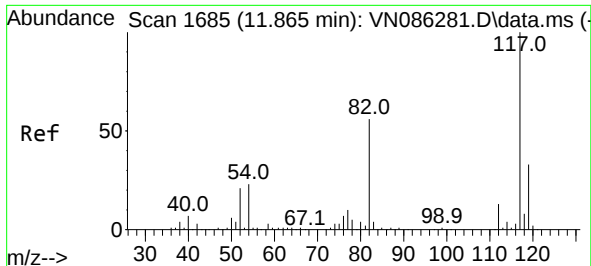
Tgt Ion: 43 Resp: 82762
Ion Ratio Lower Upper
43 100
58 16.6 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 50.499 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086647.D
Acq: 15 May 2025 16:00

Tgt Ion: 95 Resp: 192311
Ion Ratio Lower Upper
95 100
174 74.4 0.0 133.4
176 70.7 0.0 129.2

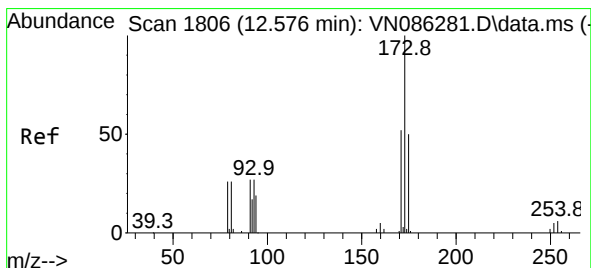
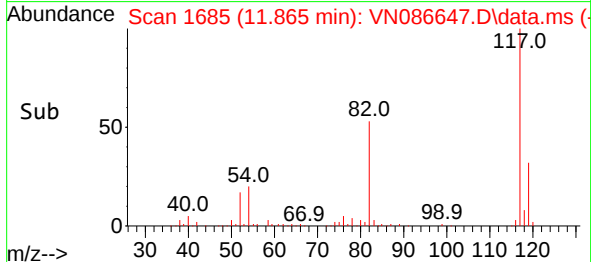
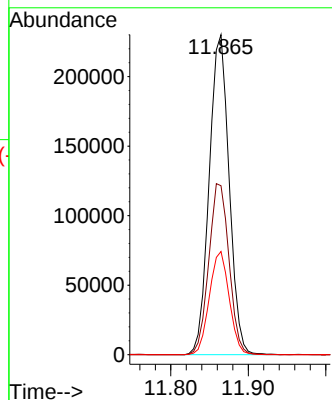
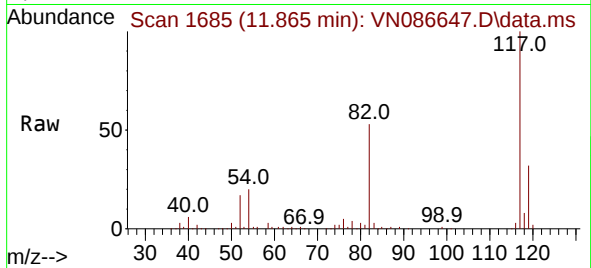




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN086647.D
Acq: 15 May 2025 16:00

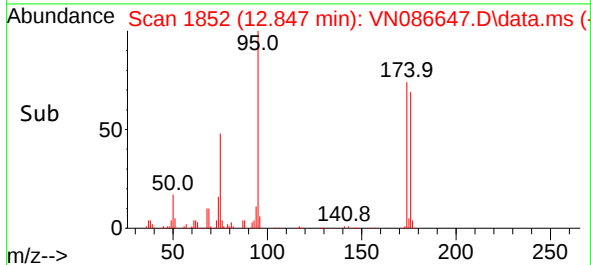
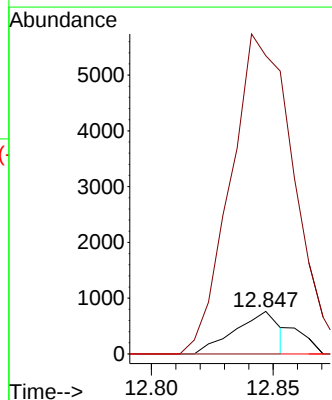
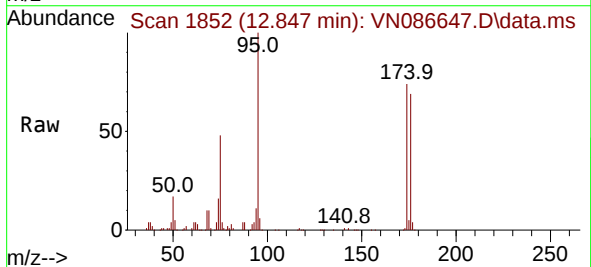
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#09

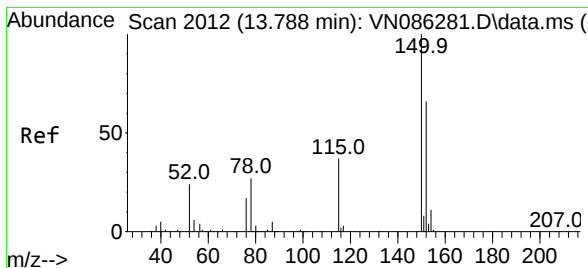
Tgt Ion:117 Resp: 410683
Ion Ratio Lower Upper
117 100
82 52.8 44.7 67.1
119 32.3 26.4 39.6



#71
Bromoform
Concen: 0.426 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN086647.D
Acq: 15 May 2025 16:00

Tgt Ion:173 Resp: 969
Ion Ratio Lower Upper
173 100
175 856.6 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: VN086647.D

Acq: 15 May 2025 16:00

Instrument :

MSVOA_N

ClientSampleId :

PB167995ZHE#09

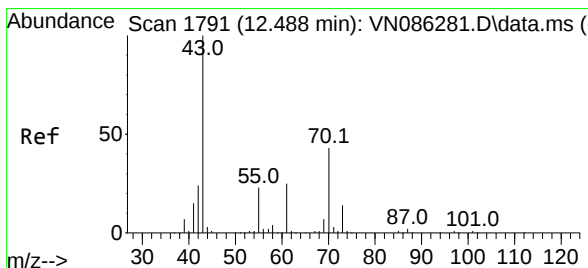
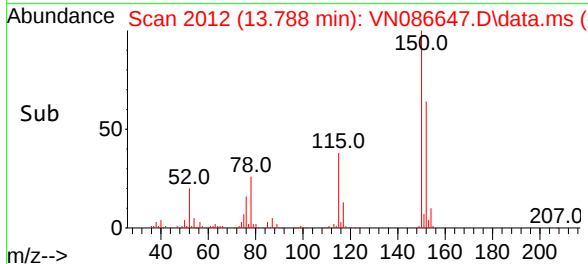
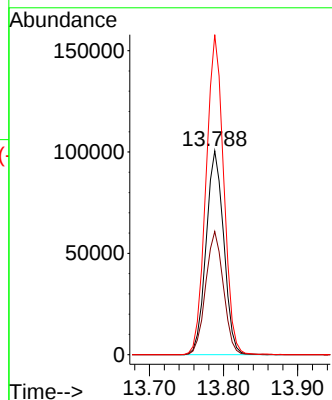
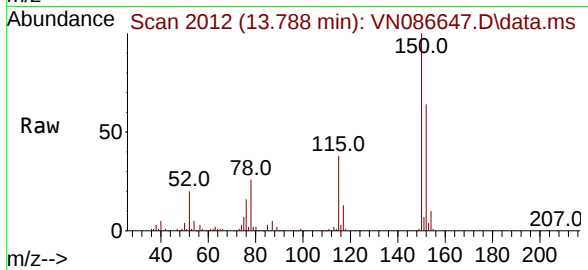
Tgt Ion:152 Resp: 166378

Ion Ratio Lower Upper

152 100

115 60.8 31.9 95.9

150 156.9 0.0 352.0



#74

N-ethyl acetate

Concen: 0.835 ug/l

RT: 12.453 min Scan# 1785

Delta R.T. -0.035 min

Lab File: VN086647.D

Acq: 15 May 2025 16:00

Tgt Ion: 43 Resp: 5659

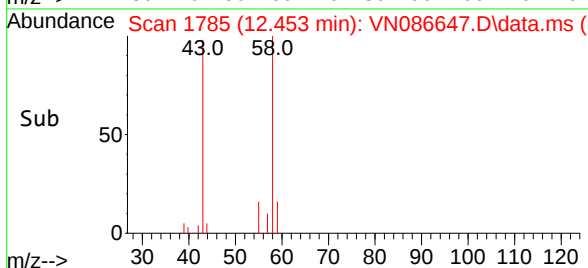
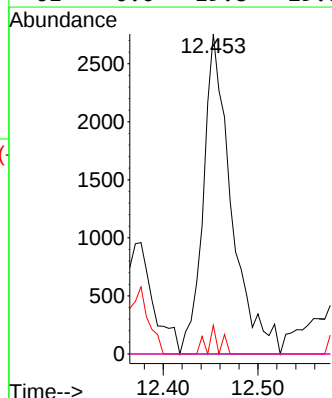
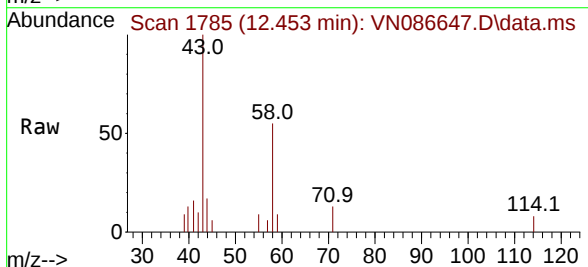
Ion Ratio Lower Upper

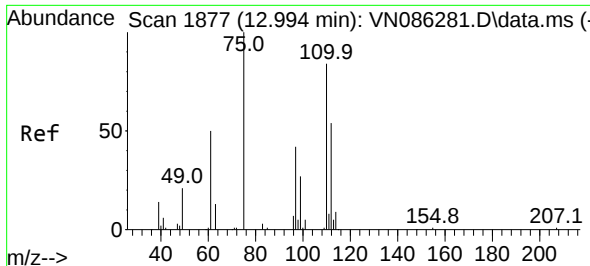
43 100

70 0.0 35.0 52.4#

55 3.5 19.0 28.4#

61 0.0 19.8 29.8#

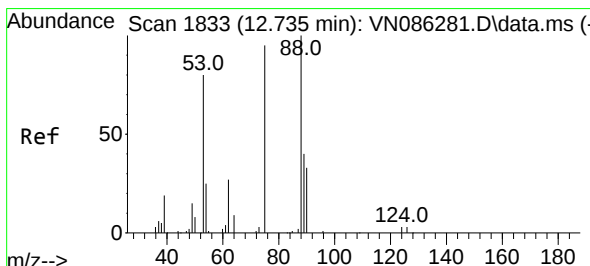
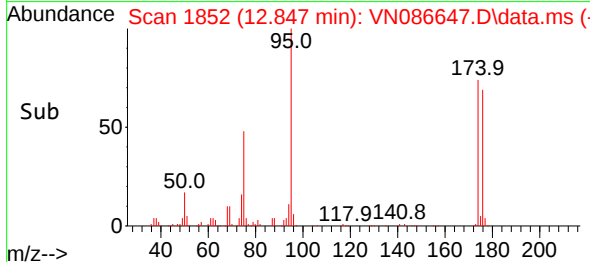
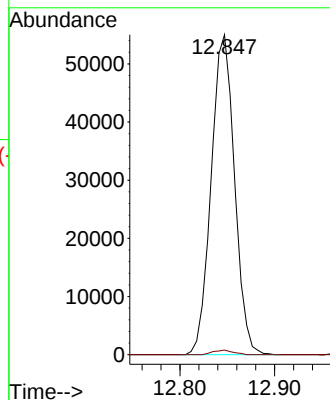
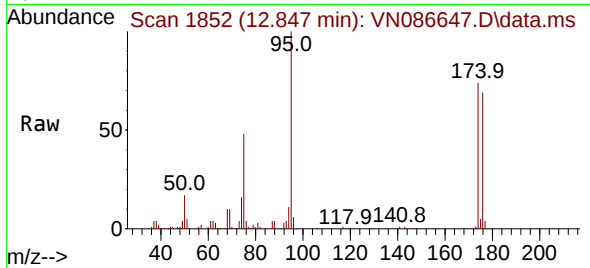




#76
1,2,3-Trichloropropane
Concen: 24.004 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086647.D
Acq: 15 May 2025 16:00

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#09

Tgt Ion: 75 Resp: 94248
Ion Ratio Lower Upper
75 100
77 1.2 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 57.650 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086647.D
Acq: 15 May 2025 16:00

Tgt Ion: 75 Resp: 94248
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

