

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051525\
 Data File : VN086645.D
 Acq On : 15 May 2025 15:11
 Operator : JC\MD
 Sample : PB167995ZHE#07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#07

Quant Time: May 16 05:28:29 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

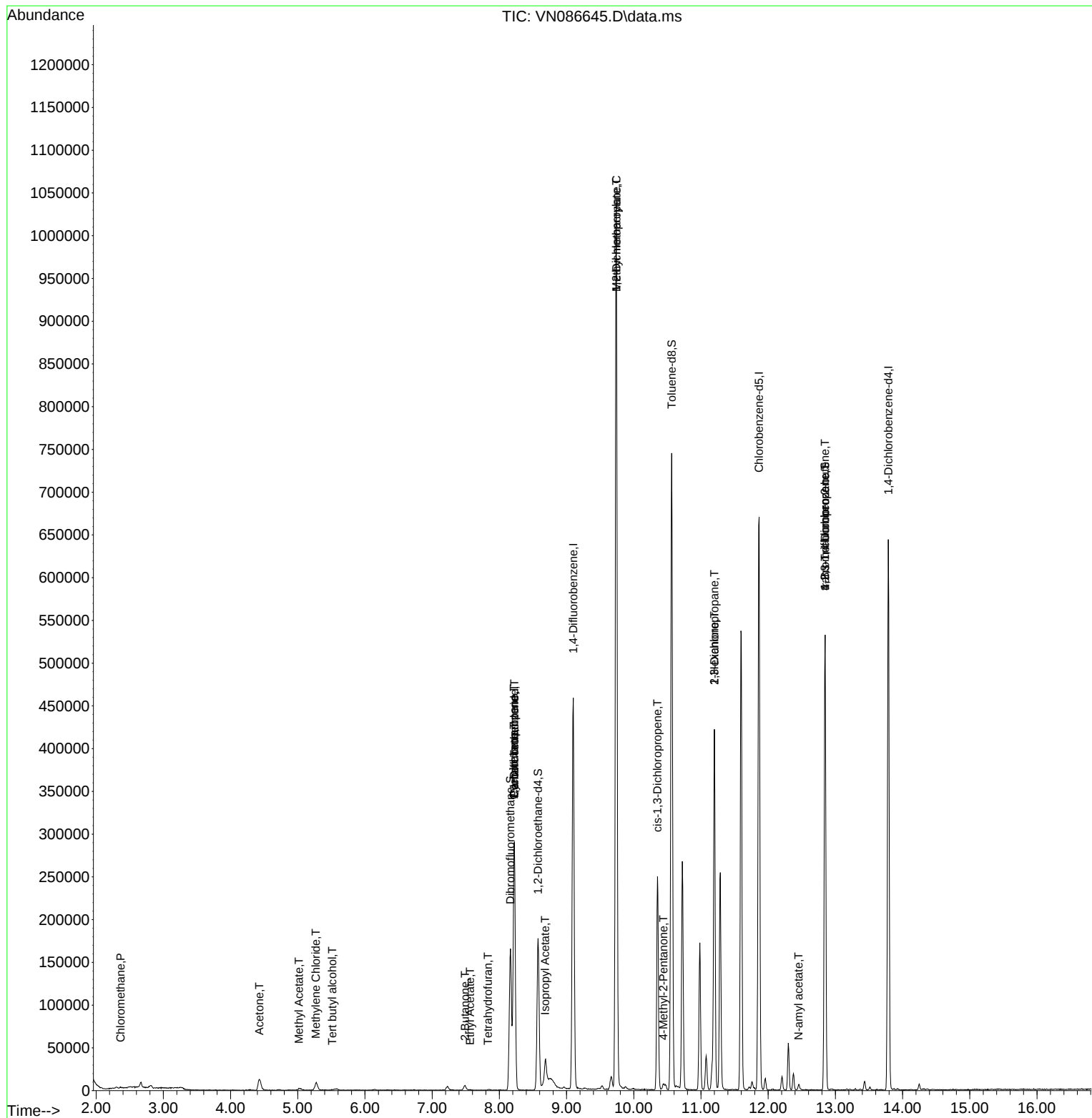
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	222049	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	413362	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	408935	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	179145	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	147112	45.688	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	91.380%
35) Dibromofluoromethane	8.165	113	124131	64.703	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	129.400%#
50) Toluene-d8	10.565	98	533004	51.984	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.960%
62) 4-Bromofluorobenzene	12.847	95	198408	53.053	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	106.100%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	895	0.234	ug/l	97
11) Tert butyl alcohol	5.512	59	1187	2.020	ug/l #	72
16) Acetone	4.430	43	26557	18.572	ug/l	100
18) Methyl Acetate	5.018	43	4857	1.257	ug/l #	85
20) Methylene Chloride	5.271	84	7026	2.360	ug/l #	80
25) 2-Butanone	7.488	43	10088	5.033	ug/l	93
29) Tetrahydrofuran	7.830	42	335	0.250	ug/l #	59
31) Cyclohexane	8.218	56	4504	0.863	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	16881	4.405	ug/l #	48
37) Ethyl Acetate	7.565	43	925	0.229	ug/l #	68
38) Carbon Tetrachloride	8.224	117	22284	6.107	ug/l #	16
43) Isopropyl Acetate	8.682	43	51560	5.352	ug/l #	79
45) 1,2-Dichloropropane	9.741	63	1287	0.428	ug/l #	43
48) Methyl methacrylate	9.741	41	91157	25.731	ug/l #	41
51) 4-Methyl-2-Pentanone	10.441	43	3905	0.945	ug/l	92
54) cis-1,3-Dichloropropene	10.353	75	48972	9.658	ug/l #	59
57) 1,3-Dichloropropane	11.200	76	4612	0.943	ug/l #	43
59) 2-Hexanone	11.200	43	79762	26.031	ug/l #	46
74) N-amyl acetate	12.453	43	5576	0.764	ug/l #	43
76) 1,2,3-Trichloropropane	12.847	75	96793	22.896	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	96793	54.987	ug/l #	10

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

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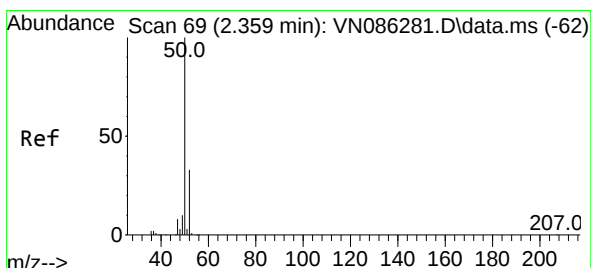
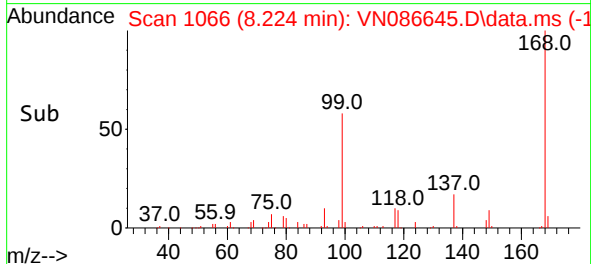
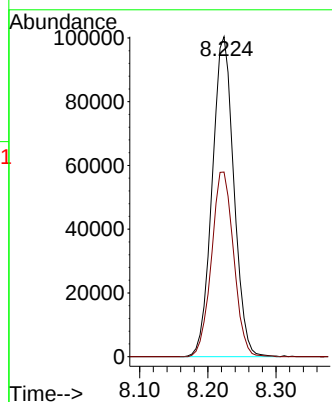
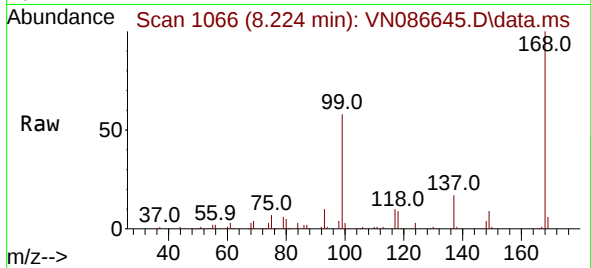




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

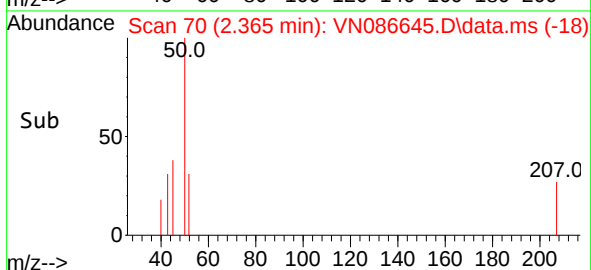
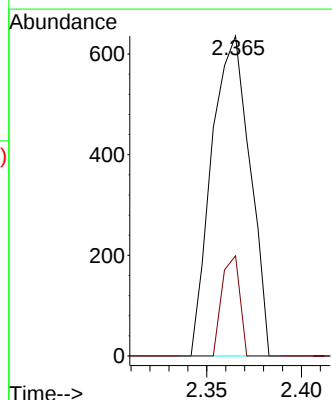
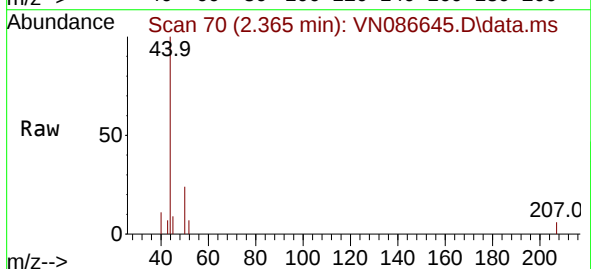
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#07

Tgt Ion:168 Resp: 222049
Ion Ratio Lower Upper
168 100
99 57.7 52.5 78.7



#3
Chloromethane
Concen: 0.234 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

Tgt Ion: 50 Resp: 895
Ion Ratio Lower Upper
50 100
52 31.3 26.5 39.7

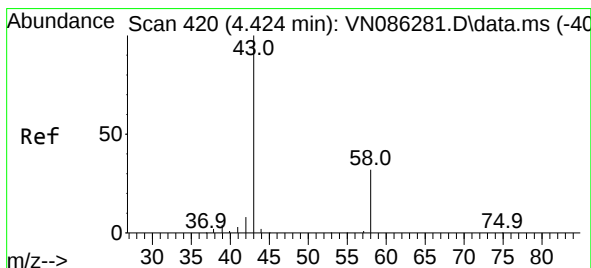
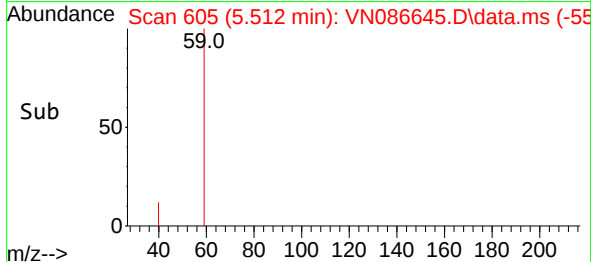
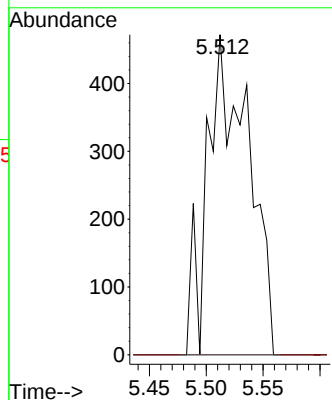
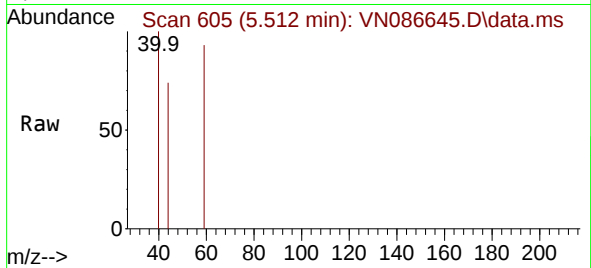




#11
Tert butyl alcohol
Concen: 2.020 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

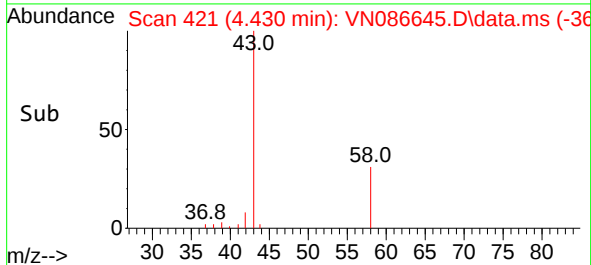
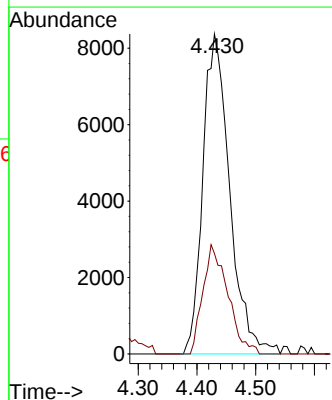
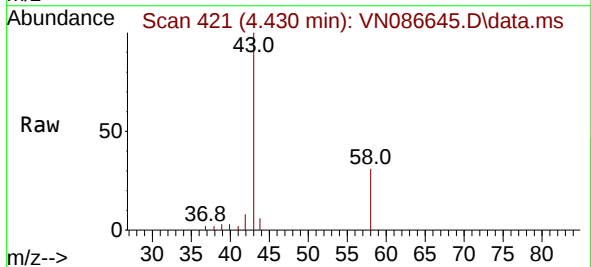
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#07

Tgt Ion: 59 Resp: 1187
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 18.572 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

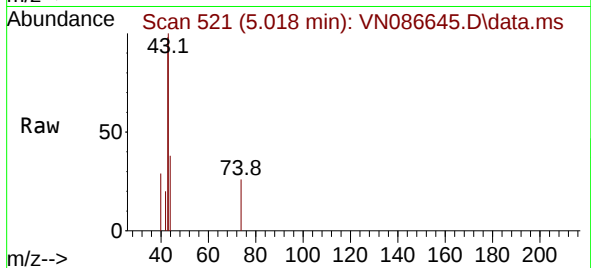
Tgt Ion: 43 Resp: 26557
Ion Ratio Lower Upper
43 100
58 31.4 25.3 37.9



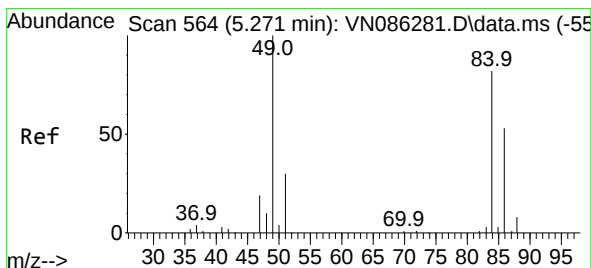
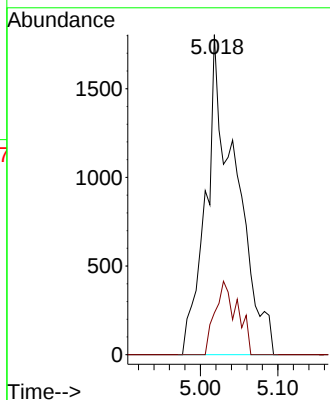
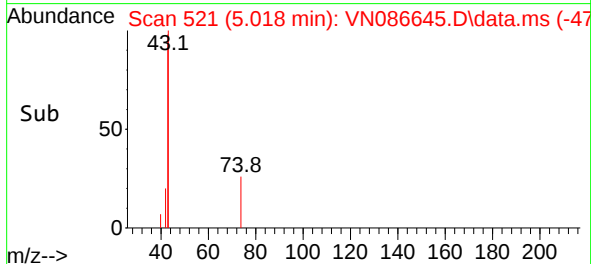


#18
Methyl Acetate
Concen: 1.257 ug/l
RT: 5.018 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#07

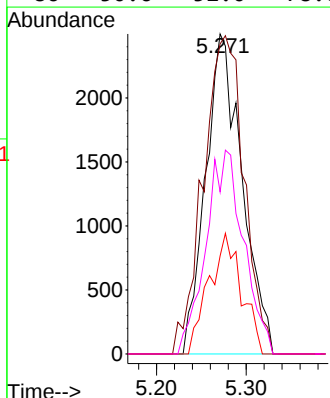
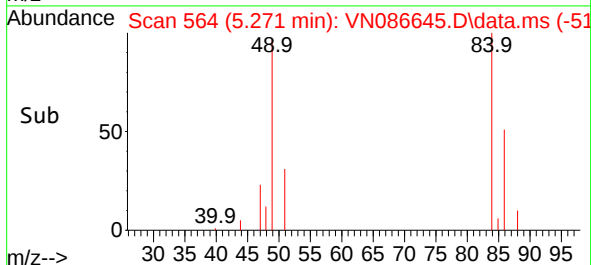
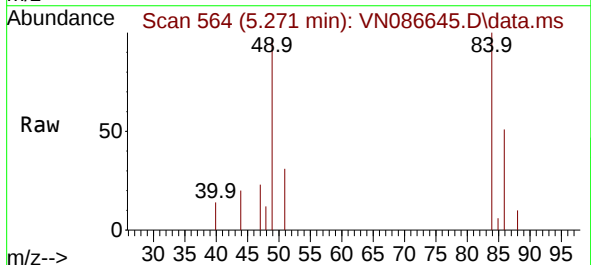


Tgt Ion: 43 Resp: 4857
Ion Ratio Lower Upper
43 100
74 17.0 19.8 29.6#



#20
Methylene Chloride
Concen: 2.360 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

Tgt Ion: 84 Resp: 7026
Ion Ratio Lower Upper
84 100
49 96.9 98.2 147.2#
51 30.6 29.8 44.6
86 50.6 52.0 78.0#

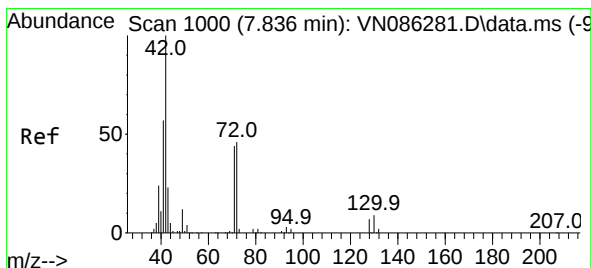
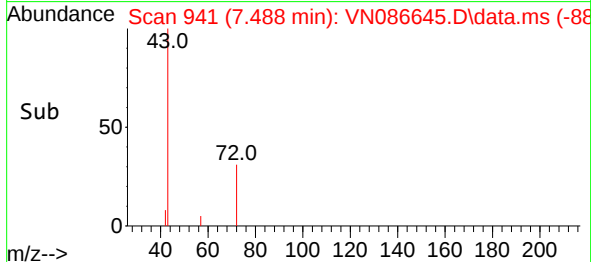
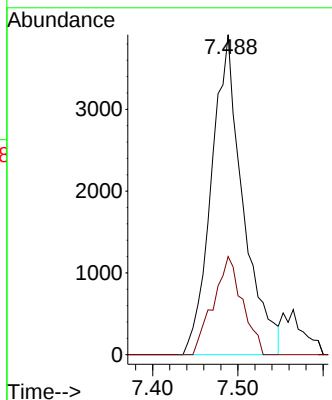
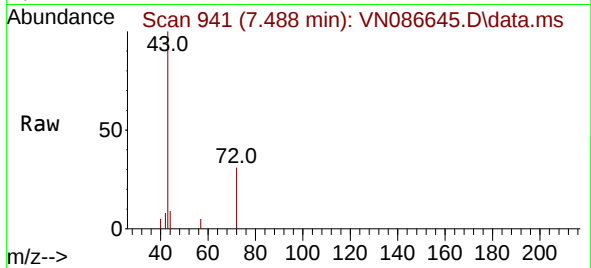




#25
2-Butanone
Concen: 5.033 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

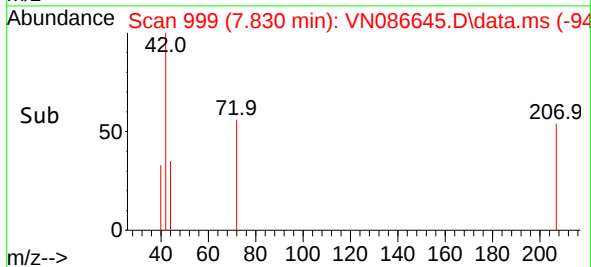
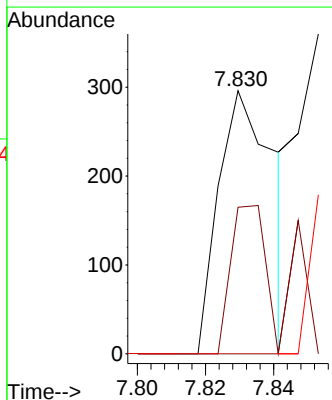
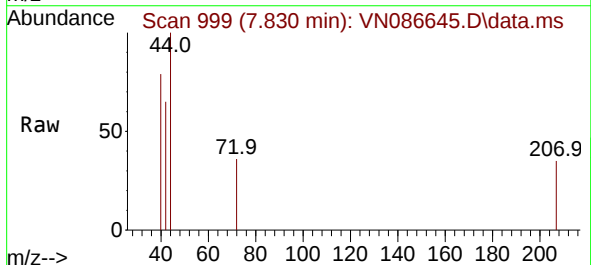
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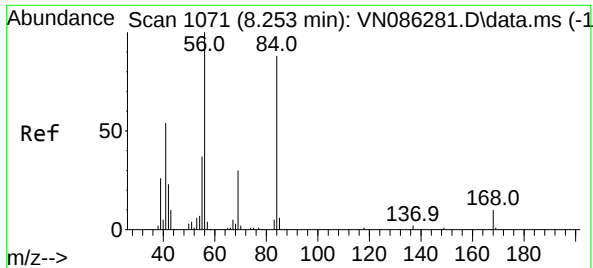
Tgt Ion: 43 Resp: 10088
Ion Ratio Lower Upper
43 100
72 30.7 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.250 ug/l
RT: 7.830 min Scan# 999
Delta R.T. -0.006 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

Tgt Ion: 42 Resp: 335
Ion Ratio Lower Upper
42 100
72 34.9 36.2 54.4#
71 0.0 34.0 51.0#

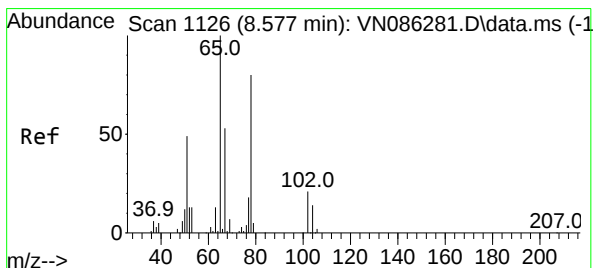
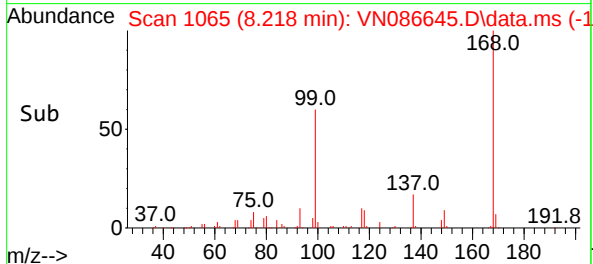
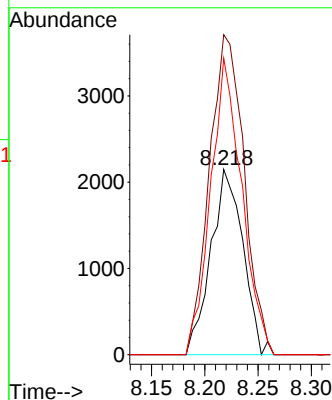
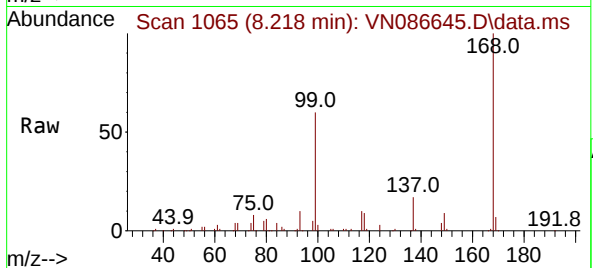




#31
Cyclohexane
Concen: 0.863 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

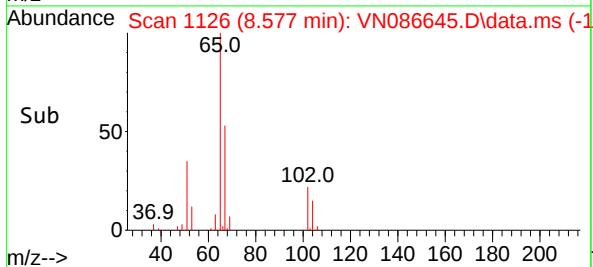
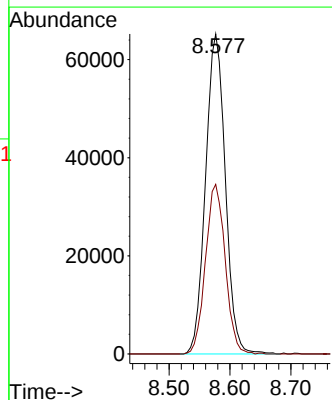
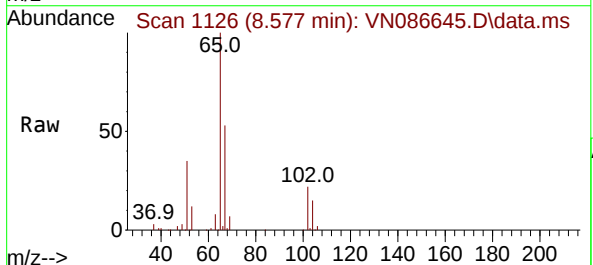
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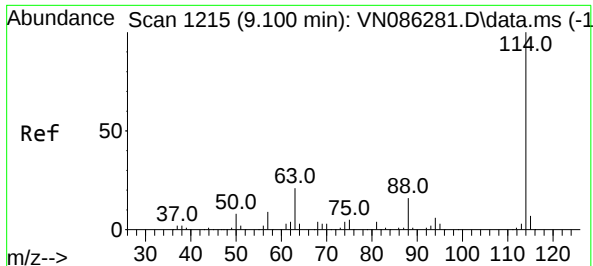
Tgt Ion: 56 Resp: 4504
Ion Ratio Lower Upper
56 100
69 172.7 24.2 36.2#
84 160.0 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 45.688 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

Tgt Ion: 65 Resp: 147112
Ion Ratio Lower Upper
65 100
67 52.9 0.0 106.0

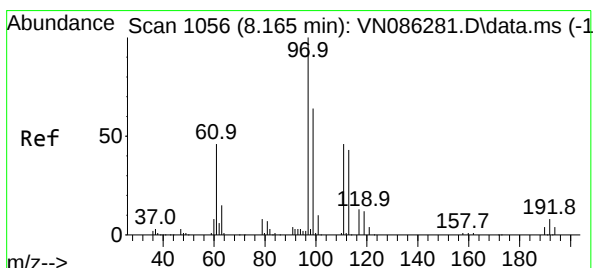
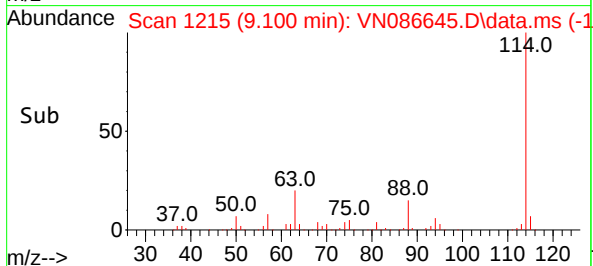
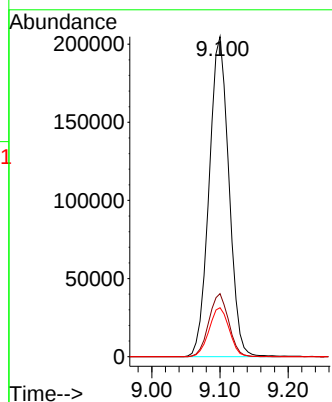
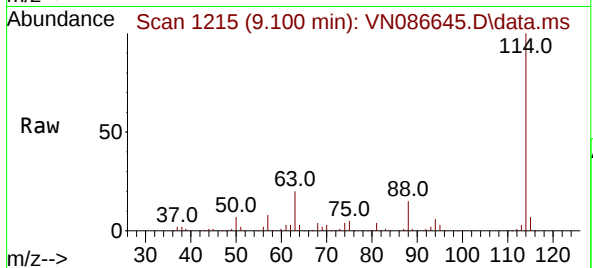




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

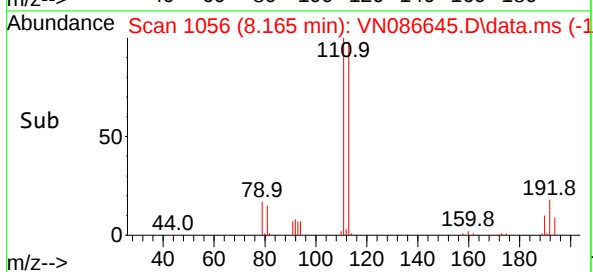
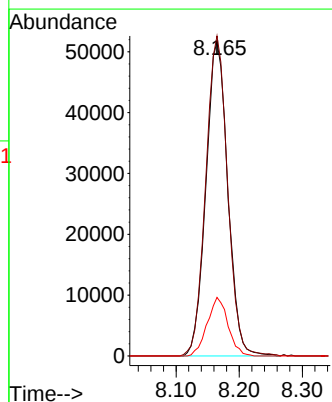
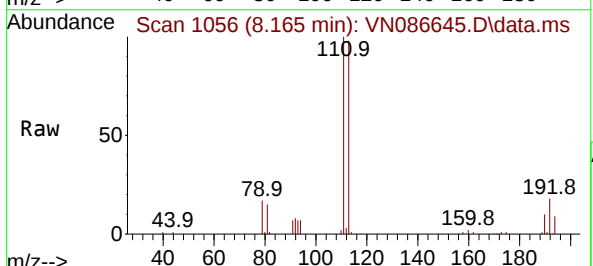
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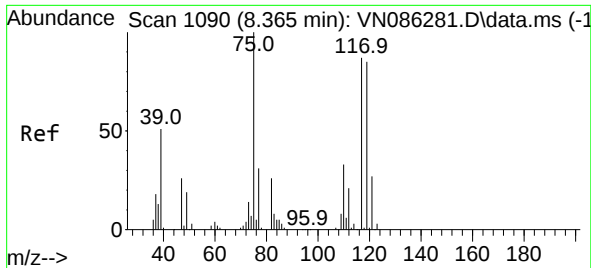
Tgt Ion:114 Resp: 413362
Ion Ratio Lower Upper
114 100
63 19.7 0.0 42.6
88 15.3 0.0 31.8



#35
Dibromofluoromethane
Concen: 64.703 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

Tgt Ion:113 Resp: 124131
Ion Ratio Lower Upper
113 100
111 101.8 83.4 125.0
192 17.8 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.405 ug/l

RT: 8.218 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN086645.D

Acq: 15 May 2025 15:11

Instrument :

MSVOA_N

ClientSampleId :

PB167995ZHE#07

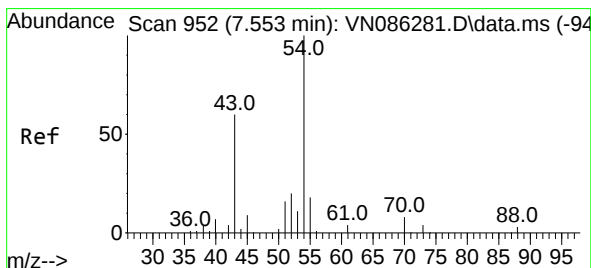
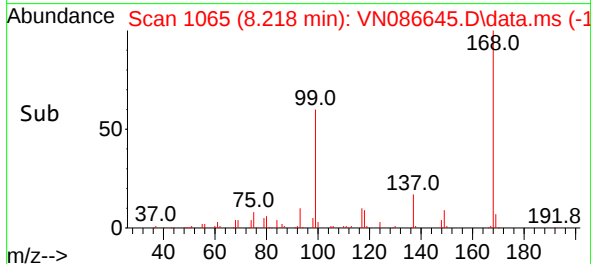
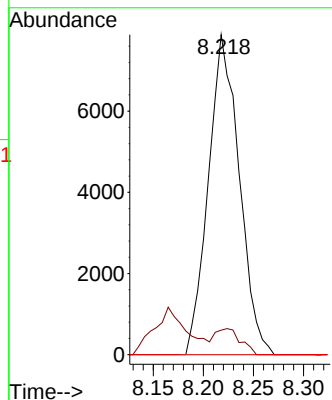
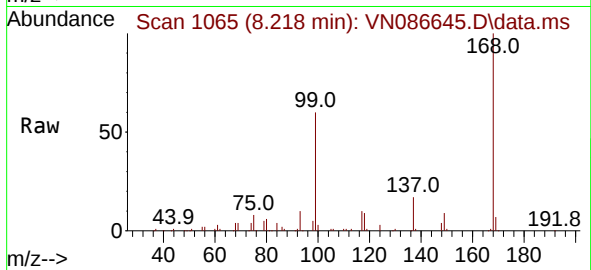
Tgt Ion: 75 Resp: 16881

Ion Ratio Lower Upper

75 100

110 6.7 16.8 50.4#

77 0.0 24.9 37.3#



#37

Ethyl Acetate

Concen: 0.229 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.012 min

Lab File: VN086645.D

Acq: 15 May 2025 15:11

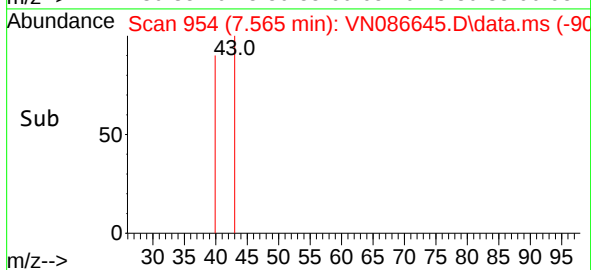
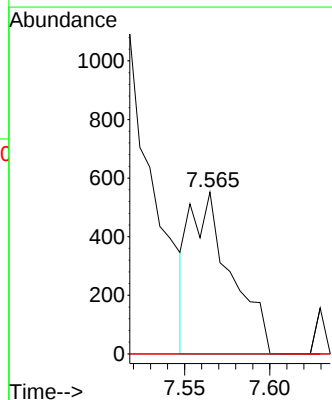
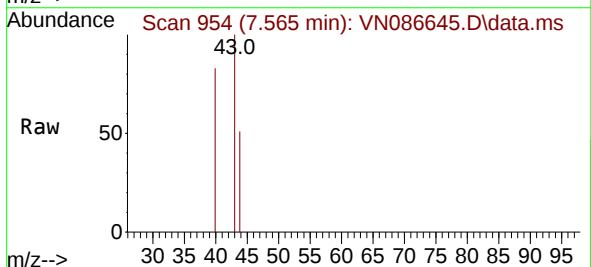
Tgt Ion: 43 Resp: 925

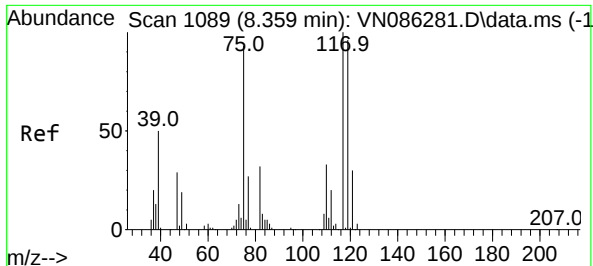
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

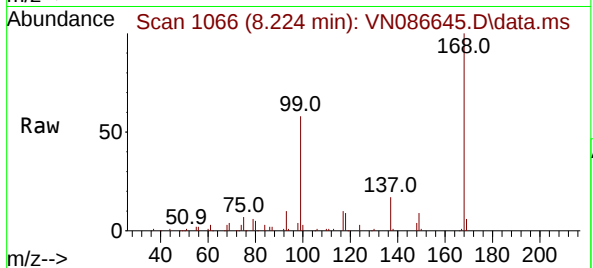
70 0.0 9.2 13.8#



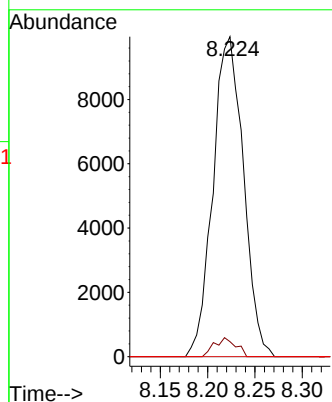
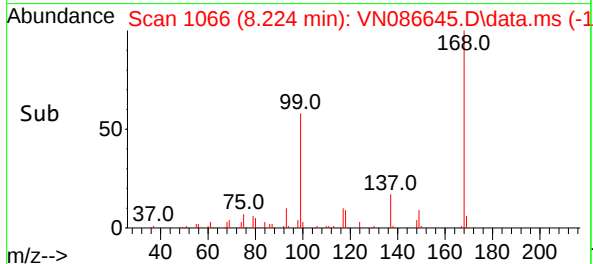


#38
Carbon Tetrachloride
Concen: 6.107 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#07

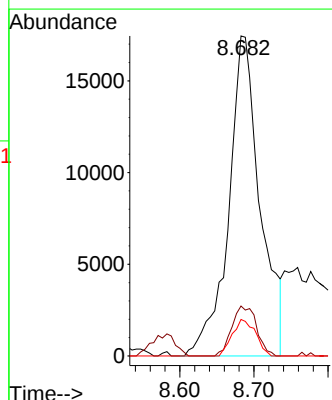
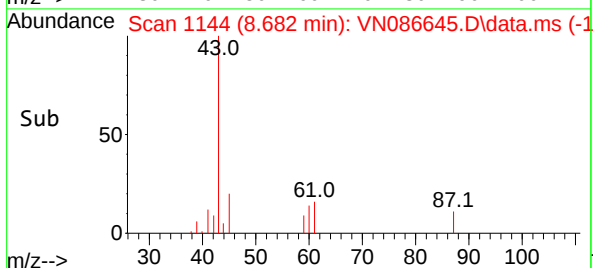
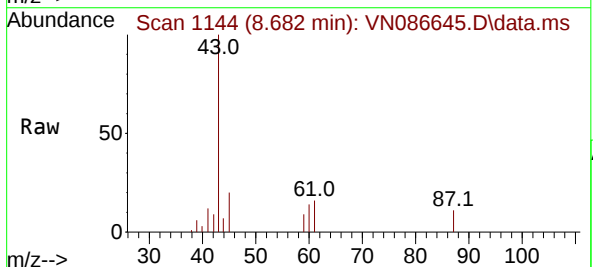


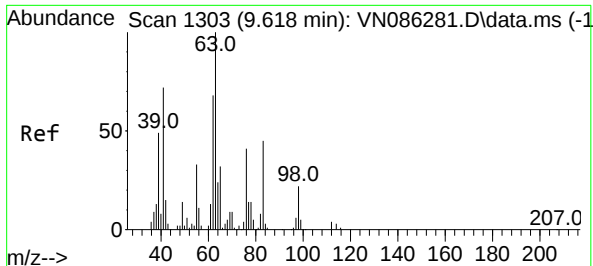
Tgt Ion:117 Resp: 22284
Ion Ratio Lower Upper
117 100
119 4.7 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 5.352 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.001 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

Tgt Ion: 43 Resp: 51560
Ion Ratio Lower Upper
43 100
61 12.2 20.5 30.7#
87 8.4 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.428 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.123 min

Lab File: VN086645.D

Acq: 15 May 2025 15:11

Instrument :

MSVOA_N

ClientSampleId :

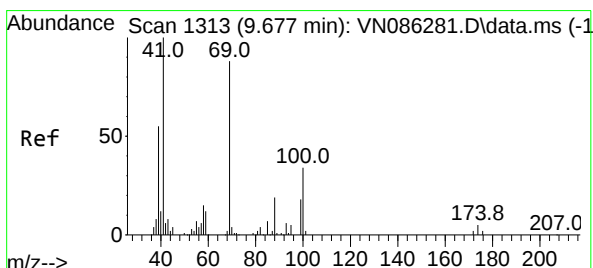
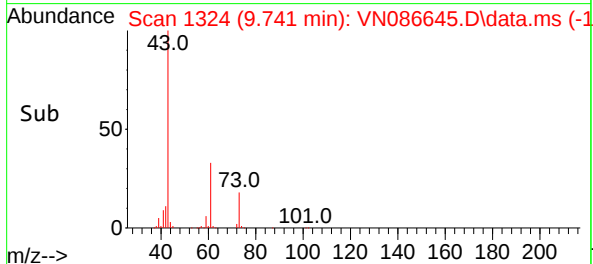
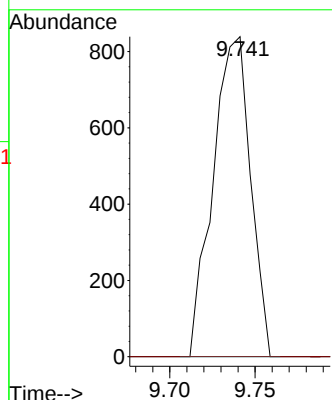
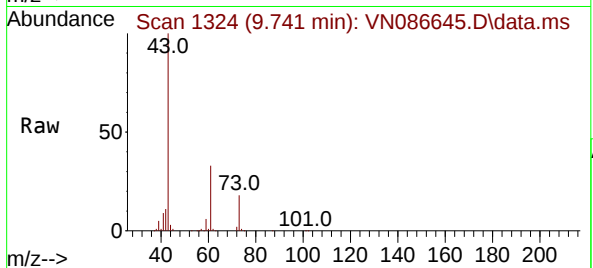
PB167995ZHE#07

Tgt Ion: 63 Resp: 1287

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 25.731 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086645.D

Acq: 15 May 2025 15:11

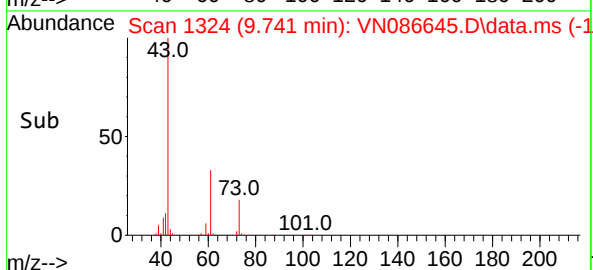
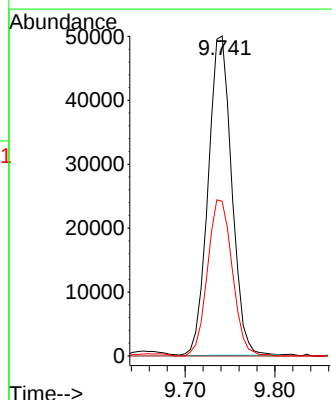
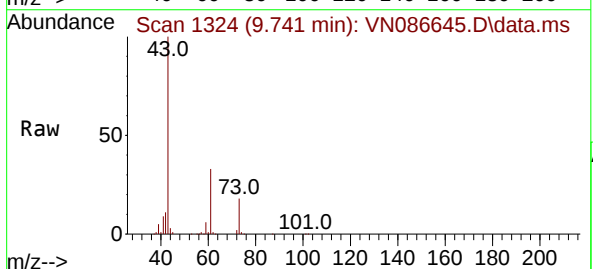
Tgt Ion: 41 Resp: 91157

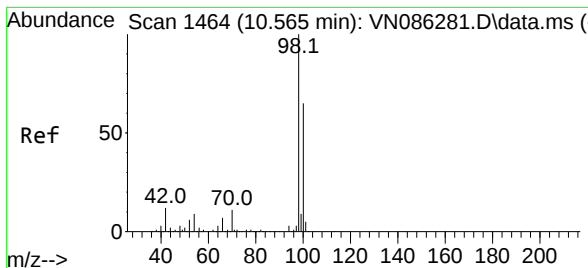
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 51.4 45.2 67.8

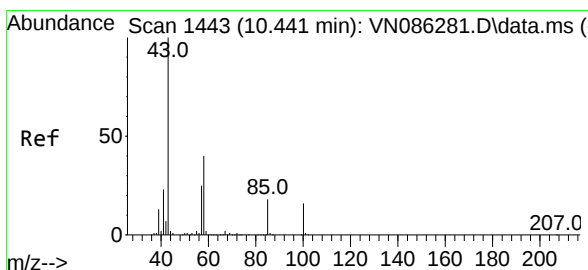
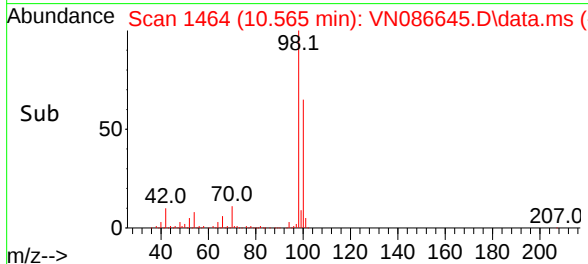
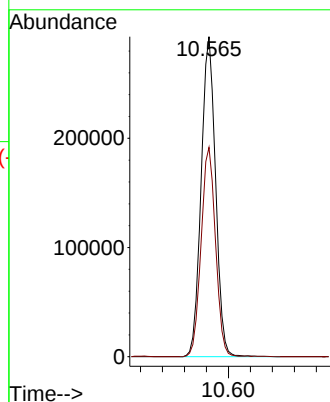
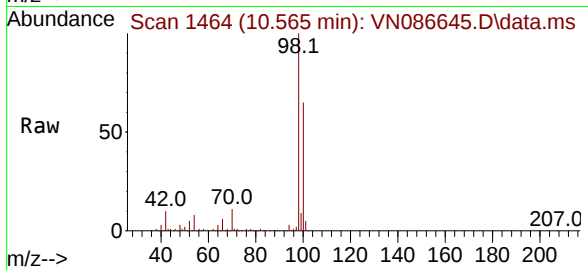




#50
Toluene-d8
Concen: 51.984 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

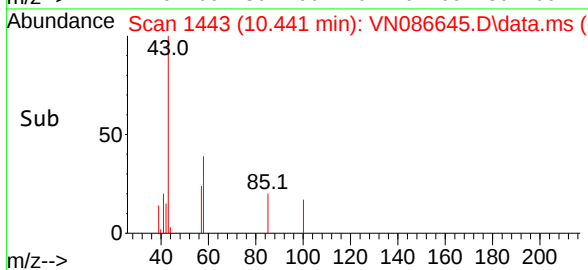
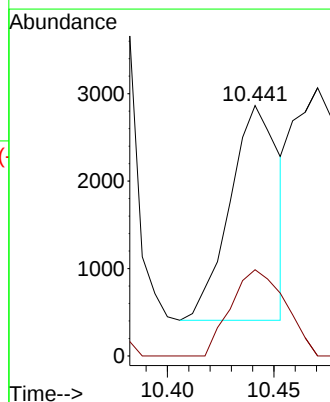
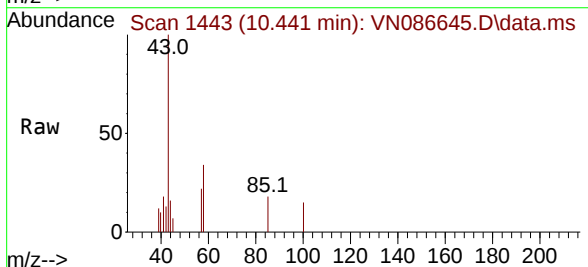
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#07

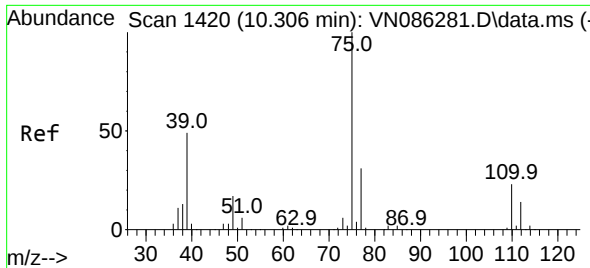
Tgt Ion: 98 Resp: 533004
Ion Ratio Lower Upper
98 100
100 65.6 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 0.945 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

Tgt Ion: 43 Resp: 3905
Ion Ratio Lower Upper
43 100
58 45.0 32.2 48.4

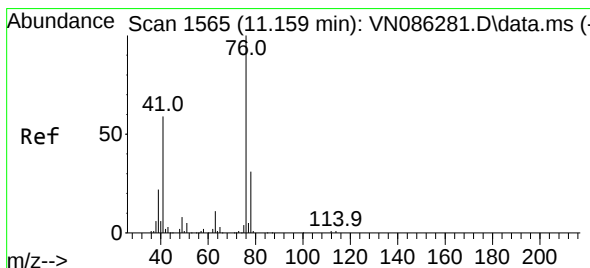
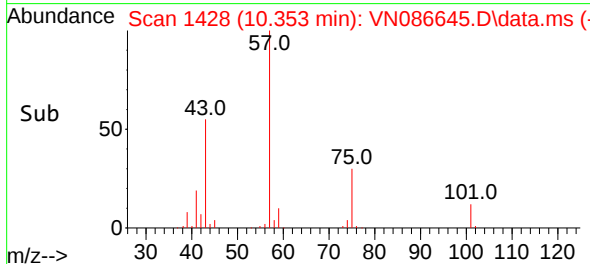
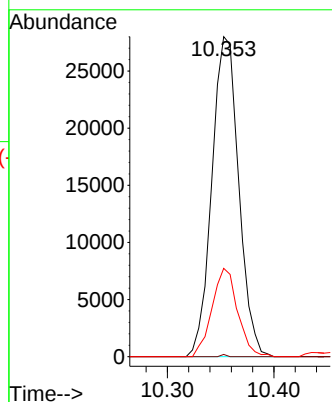
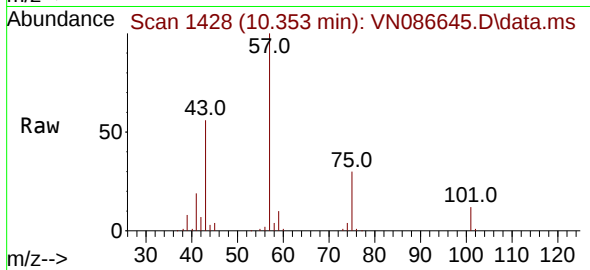




#54
 cis-1,3-Dichloropropene
 Concen: 9.658 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086645.D
 Acq: 15 May 2025 15:11

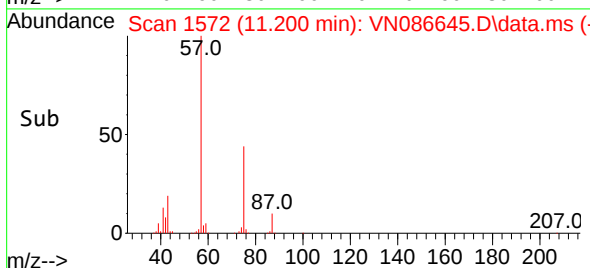
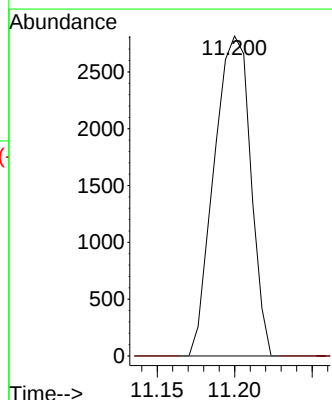
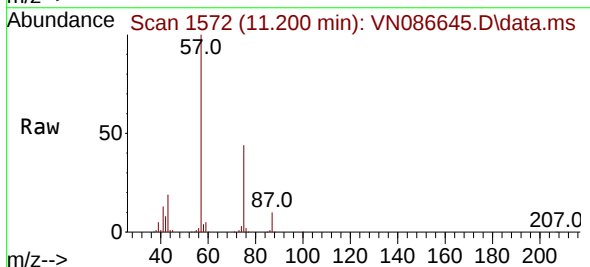
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#07

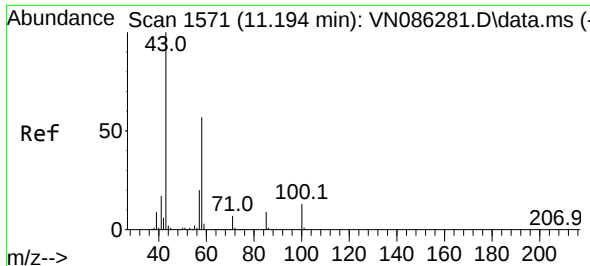
Tgt Ion: 75 Resp: 48972
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.2 37.8#
 39 27.6 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.943 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086645.D
 Acq: 15 May 2025 15:11

Tgt Ion: 76 Resp: 4612
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

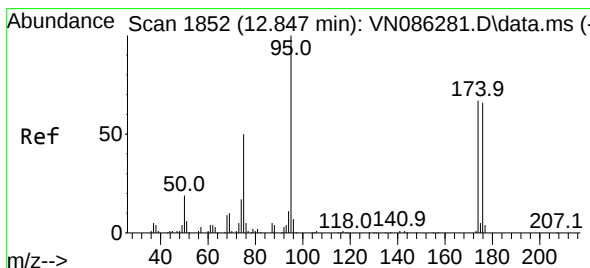
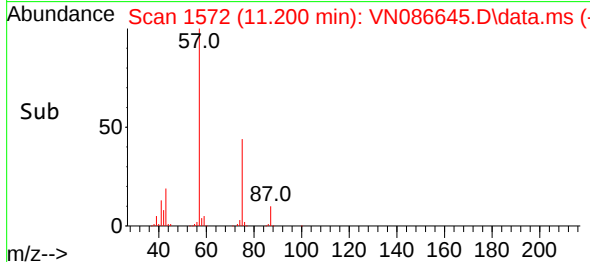
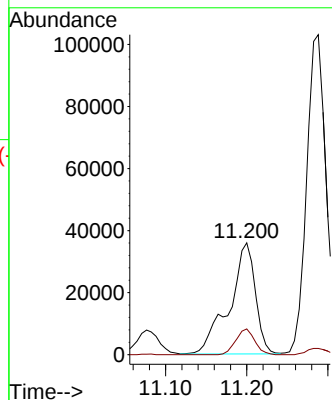
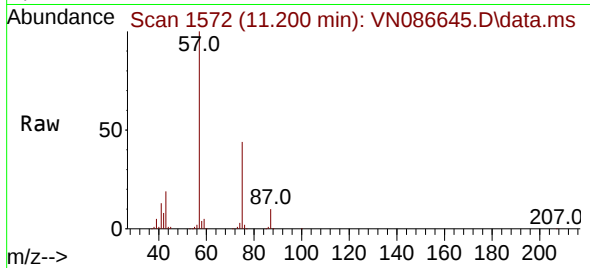




#59
2-Hexanone
Concen: 26.031 ug/l
RT: 11.200 min Scan# 1117
Delta R.T. 0.006 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

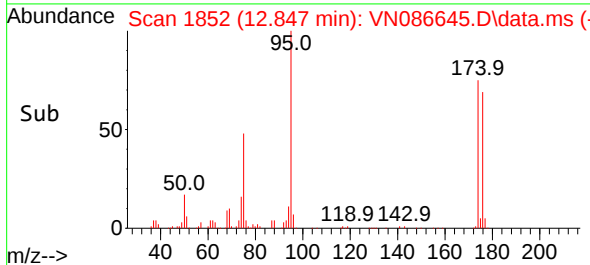
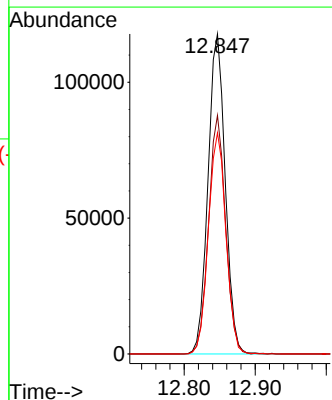
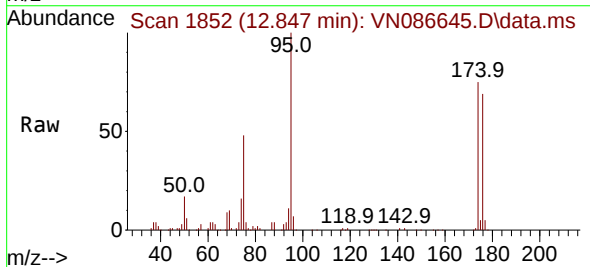
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#07

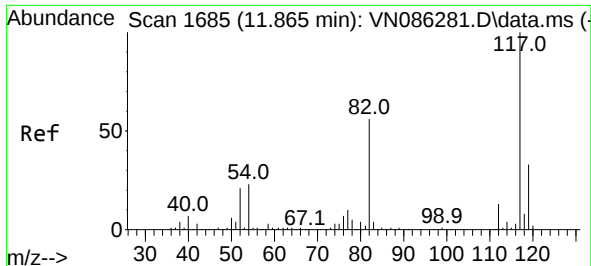
Tgt Ion: 43 Resp: 79762
Ion Ratio Lower Upper
43 100
58 16.8 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 53.053 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

Tgt Ion: 95 Resp: 198408
Ion Ratio Lower Upper
95 100
174 73.9 0.0 133.4
176 70.5 0.0 129.2

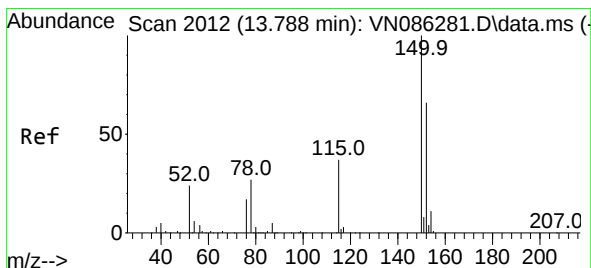
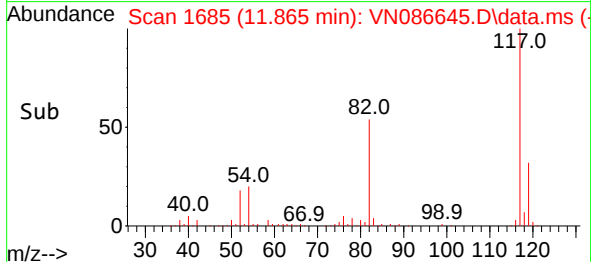
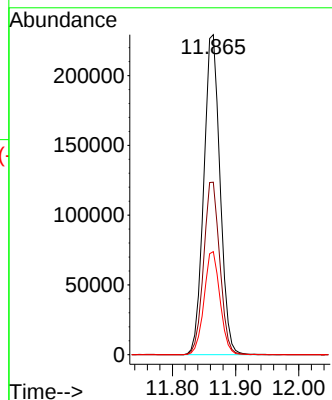
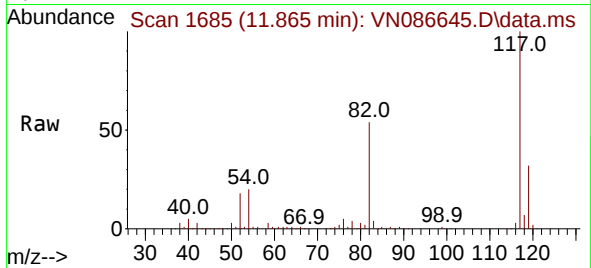




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

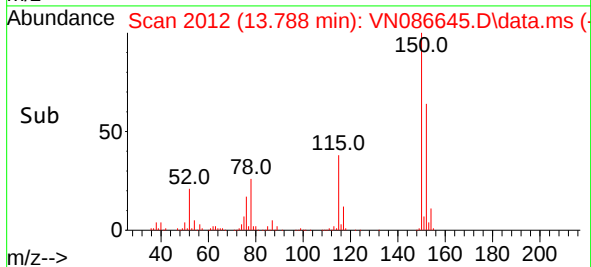
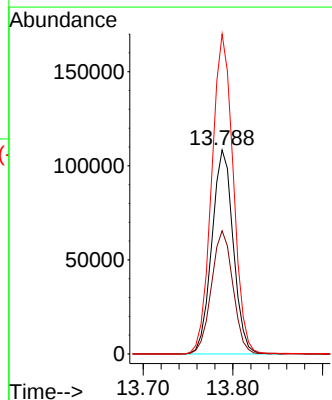
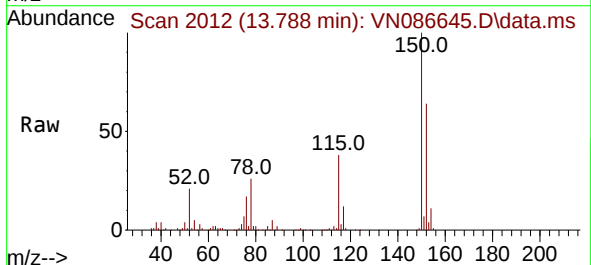
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#07

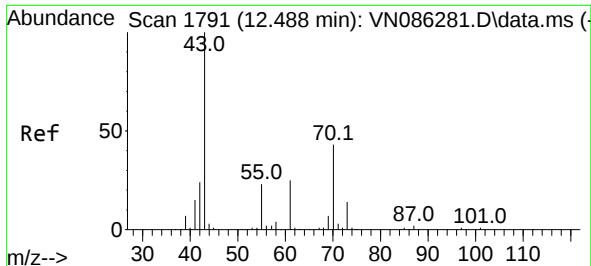
Tgt Ion:117 Resp: 408935
Ion Ratio Lower Upper
117 100
82 53.9 44.7 67.1
119 32.2 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

Tgt Ion:152 Resp: 179145
Ion Ratio Lower Upper
152 100
115 60.8 31.9 95.9
150 158.3 0.0 352.0

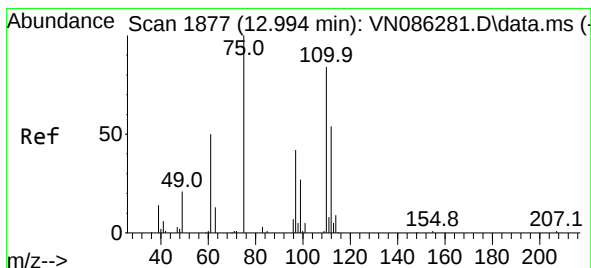
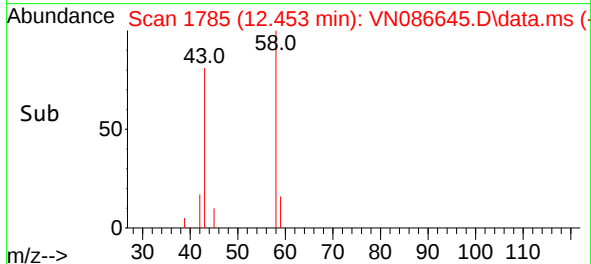
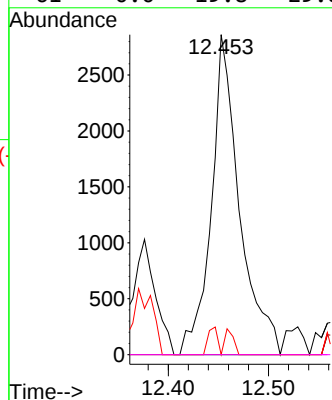
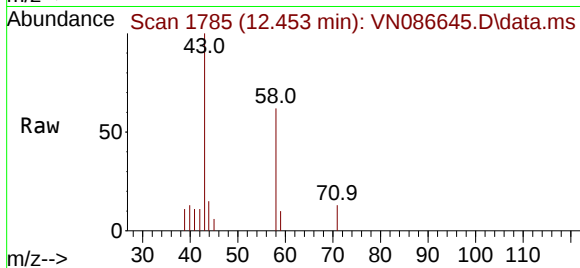




#74
N-amy1 acetate
Concen: 0.764 ug/l
RT: 12.453 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

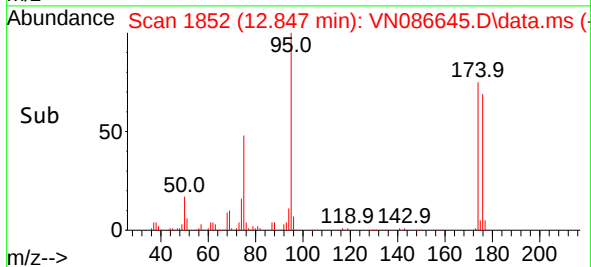
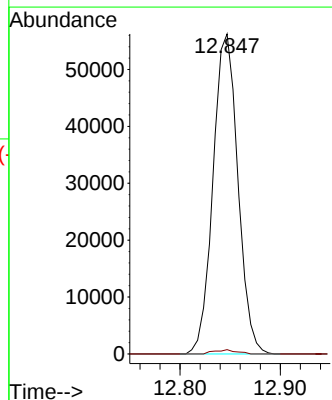
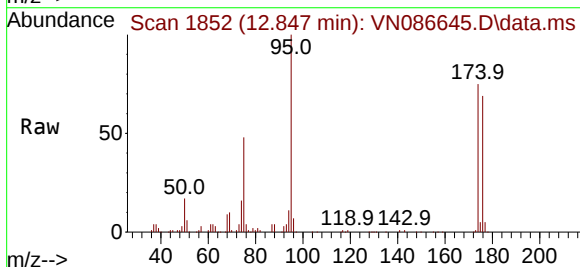
Instrument :
MSVOA_N
ClientSampleId :
PB167995ZHE#07

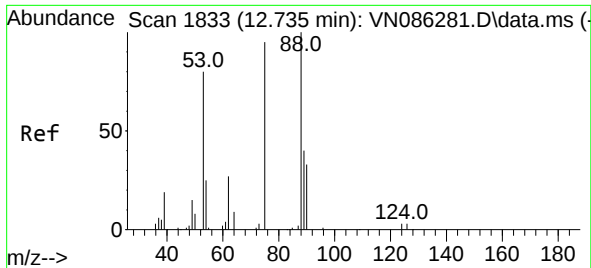
Tgt Ion: 43	Resp: 5576
Ion Ratio	Lower Upper
43 100	
70 0.0	35.0 52.4#
55 2.5	19.0 28.4#
61 0.0	19.8 29.8#



#76
1,2,3-Trichloropropane
Concen: 22.896 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086645.D
Acq: 15 May 2025 15:11

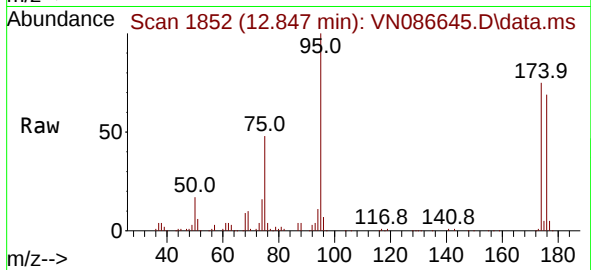
Tgt Ion: 75	Resp: 96793
Ion Ratio	Lower Upper
75 100	
77 1.2	98.8 296.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 54.987 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086645.D
 Acq: 15 May 2025 15:11

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167995ZHE#07



Tgt Ion: 75 Resp: 96793
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.0 35.7 53.5#

