

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032625\
 Data File : VN086137.D
 Acq On : 26 Mar 2025 19:36
 Operator : JC\MD
 Sample : Q1636-20
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-5

Quant Time: Mar 27 01:45:22 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)

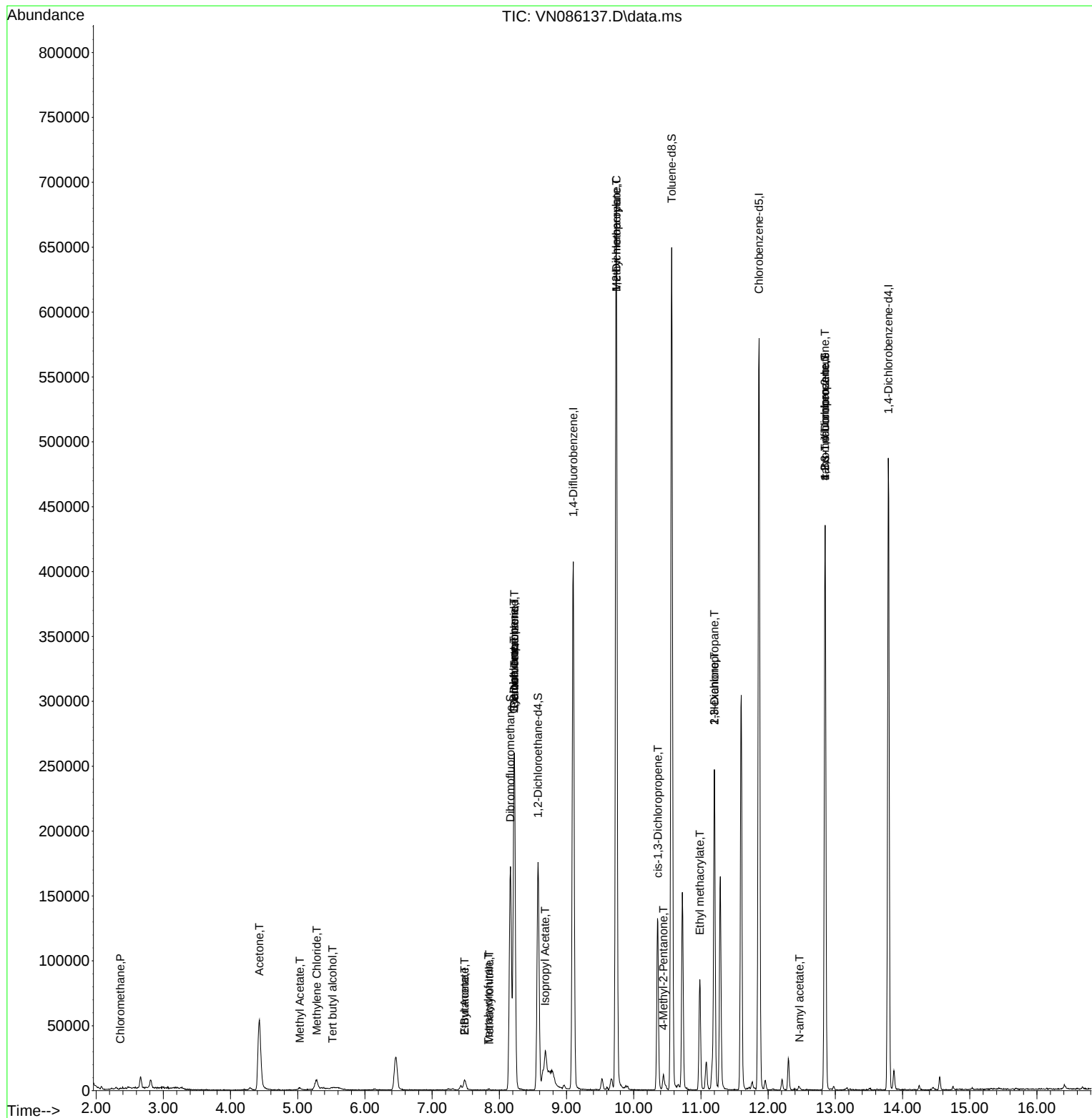
Internal Standards						
1) Pentafluorobenzene	8.224	168	192913	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	357409	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	346729	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	140113	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	145147	54.946	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.900%			
35) Dibromofluoromethane	8.165	113	124371	49.855	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.700%			
50) Toluene-d8	10.565	98	466852	51.564	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.120%			
62) 4-Bromofluorobenzene	12.847	95	154380	47.812	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.620%			
Target Compounds						Qvalue
3) Chloromethane	2.360	50	465	0.208	ug/l #	42
11) Tert butyl alcohol	5.518	59	1660	4.438	ug/l #	73
16) Acetone	4.430	43	101866	126.221	ug/l	98
18) Methyl Acetate	5.030	43	3168	1.587	ug/l #	70
20) Methylene Chloride	5.283	84	6007	2.544	ug/l	97
25) 2-Butanone	7.483	43	13111	11.259	ug/l	100
29) Tetrahydrofuran	7.836	42	423	0.588	ug/l #	37
31) Cyclohexane	8.218	56	3794	1.153	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	15988	4.867	ug/l #	46
37) Ethyl Acetate	7.483	43	13111	4.731	ug/l #	64
38) Carbon Tetrachloride	8.224	117	20071	4.647	ug/l #	16
41) Methacrylonitrile	7.853	41	355	0.268	ug/l #	21
43) Isopropyl Acetate	8.683	43	40863	6.805	ug/l #	68
45) 1,2-Dichloropropane	9.741	63	846	0.361	ug/l #	44
48) Methyl methacrylate	9.741	41	60354	30.457	ug/l #	31
51) 4-Methyl-2-Pentanone	10.441	43	9802	3.701	ug/l #	72
54) cis-1,3-Dichloropropene	10.359	75	24505	6.204	ug/l #	66
56) Ethyl methacrylate	10.982	69	706	0.419	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	2753	0.671	ug/l #	42
59) 2-Hexanone	11.200	43	46052	23.869	ug/l #	39
74) N-amyl acetate	12.465	43	2613	0.816	ug/l #	37
76) 1,2,3-Trichloropropane	12.847	75	75632	24.111	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	75632	63.745	ug/l #	16

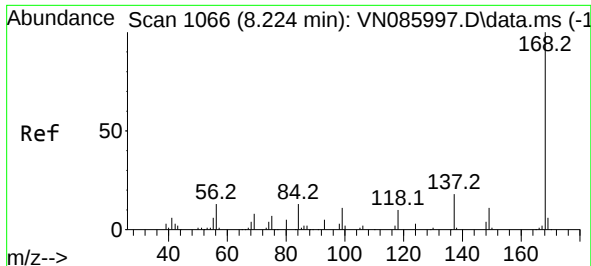
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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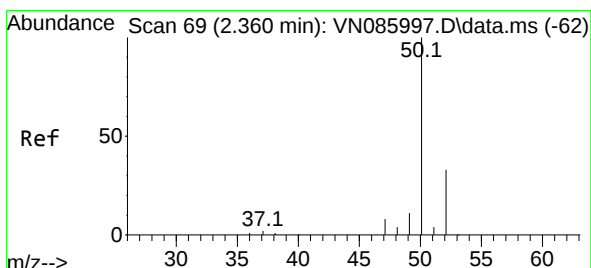
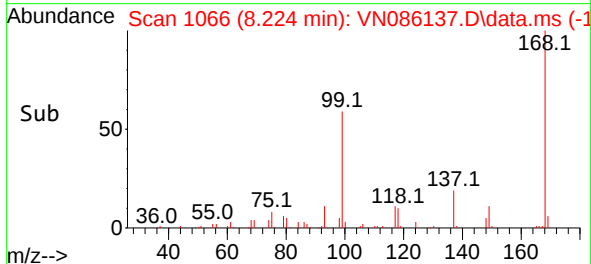
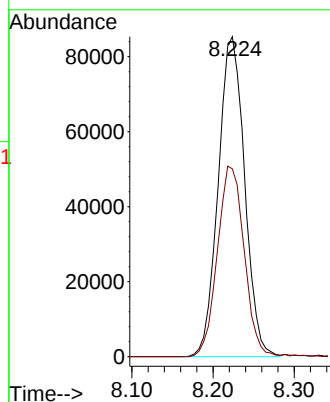
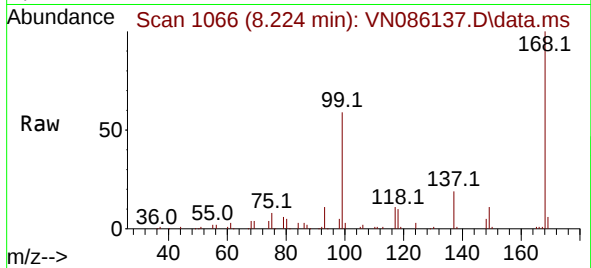




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

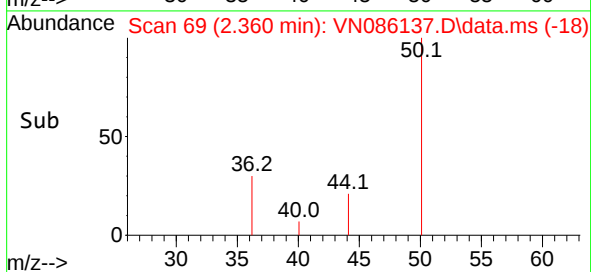
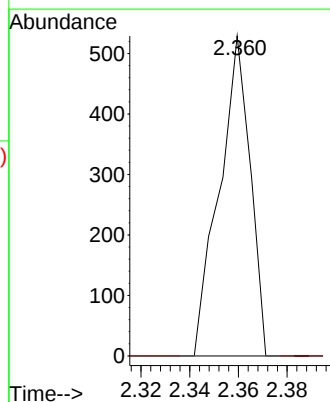
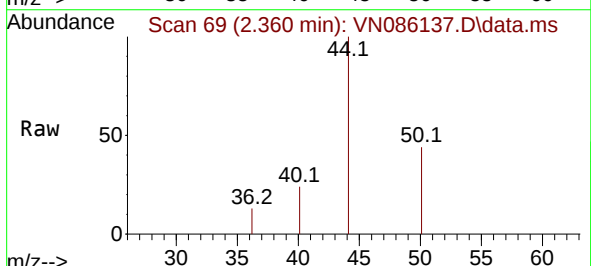
Instrument :
MSVOA_N
ClientSampleId :
WC-5

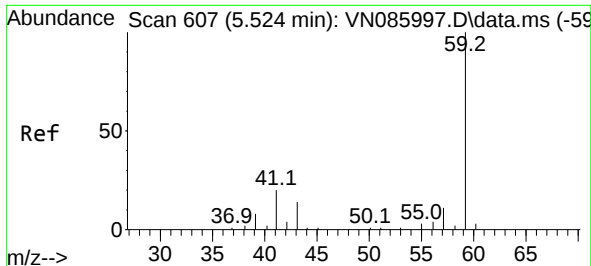
Tgt Ion:168 Resp: 192913
Ion Ratio Lower Upper
168 100
99 58.7 49.4 74.2



#3
Chloromethane
Concen: 0.208 ug/l
RT: 2.360 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

Tgt Ion: 50 Resp: 465
Ion Ratio Lower Upper
50 100
52 0.0 26.0 39.0#

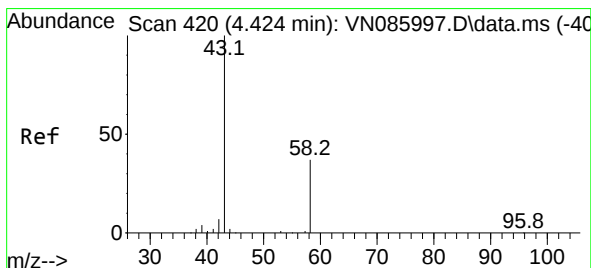
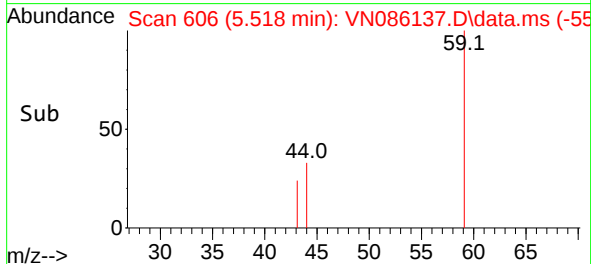
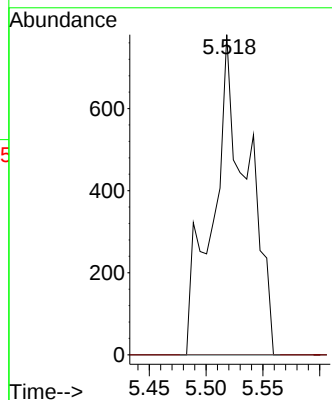
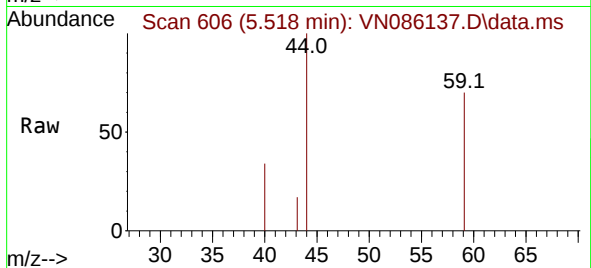




#11
Tert butyl alcohol
Concen: 4.438 ug/l
RT: 5.518 min Scan# 607
Delta R.T. -0.006 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

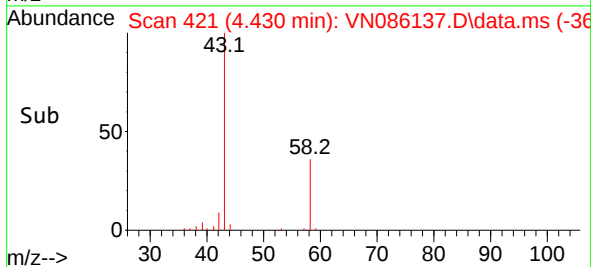
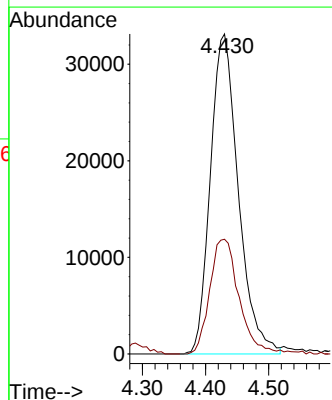
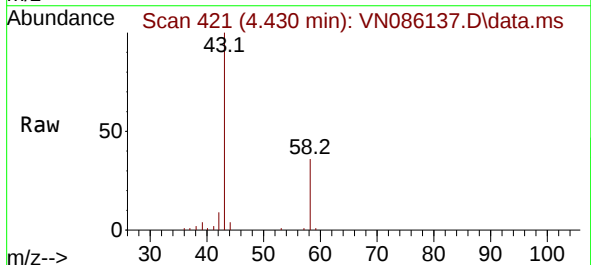
Instrument :
MSVOA_N
ClientSampleId :
WC-5

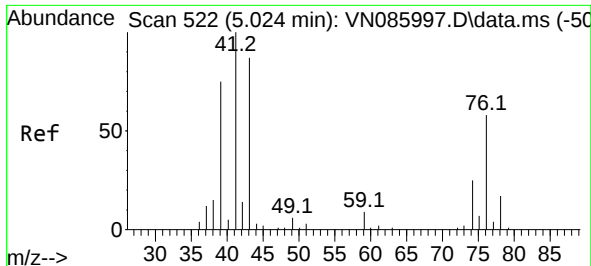
Tgt Ion: 59 Resp: 1660
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



#16
Acetone
Concen: 126.221 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

Tgt Ion: 43 Resp: 101866
Ion Ratio Lower Upper
43 100
58 35.8 29.4 44.2

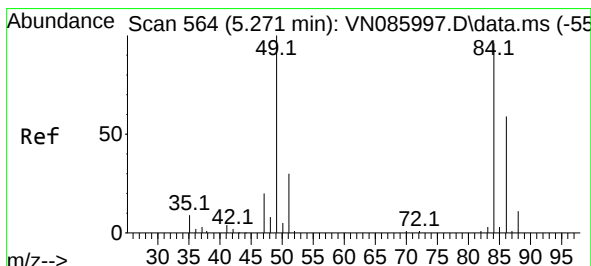
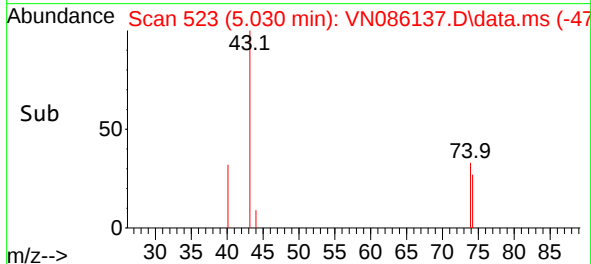
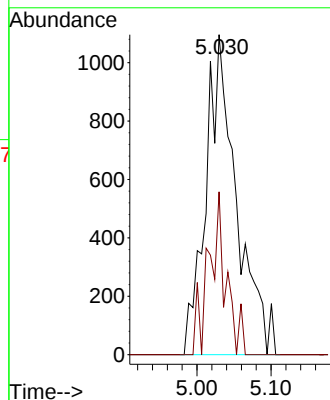
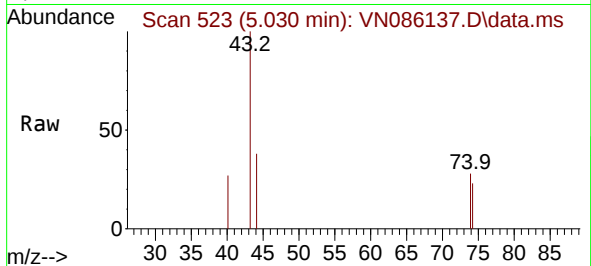




#18
Methyl Acetate
Concen: 1.587 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

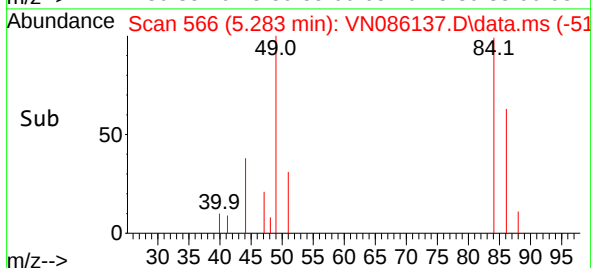
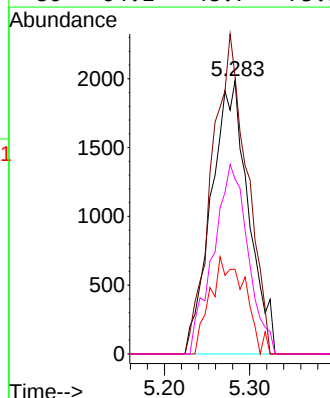
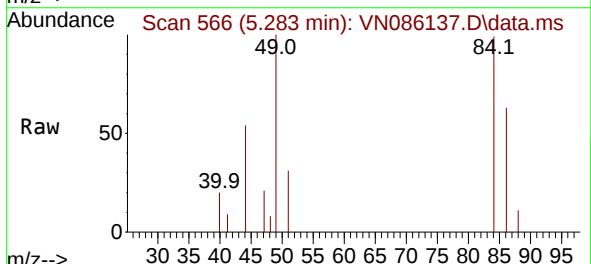
Instrument :
MSVOA_N
ClientSampleId :
WC-5

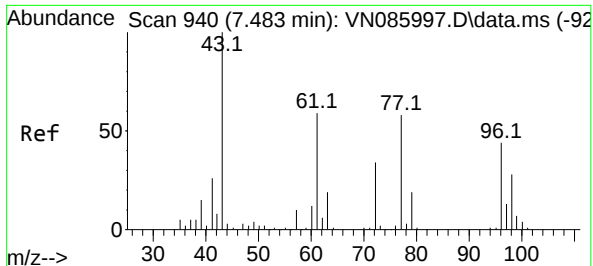
Tgt Ion: 43 Resp: 3168
Ion Ratio Lower Upper
43 100
74 13.5 23.9 35.9#



#20
Methylene Chloride
Concen: 2.544 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.012 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

Tgt Ion: 84 Resp: 6007
Ion Ratio Lower Upper
84 100
49 101.5 83.3 124.9
51 31.0 24.8 37.2
86 64.1 48.7 73.1

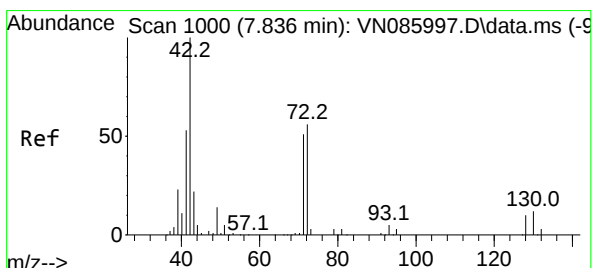
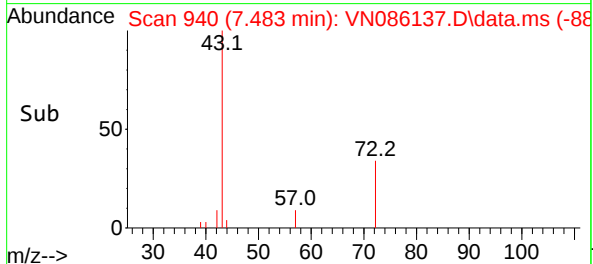
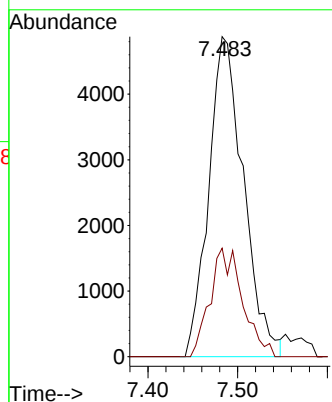
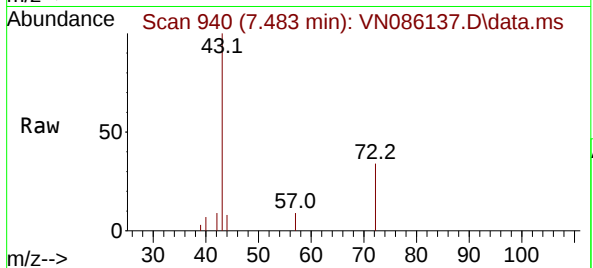




#25
2-Butanone
Concen: 11.259 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

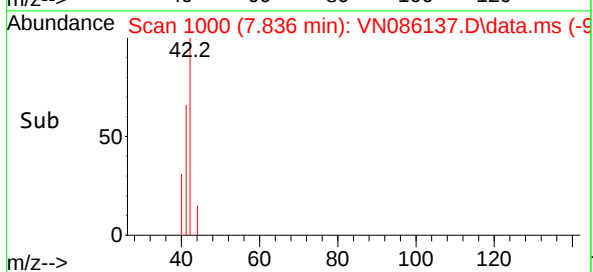
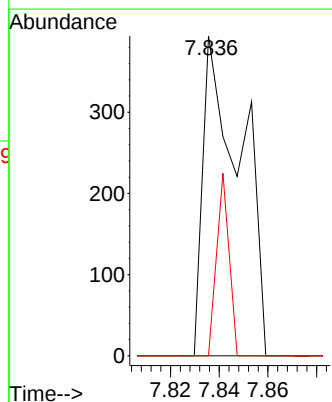
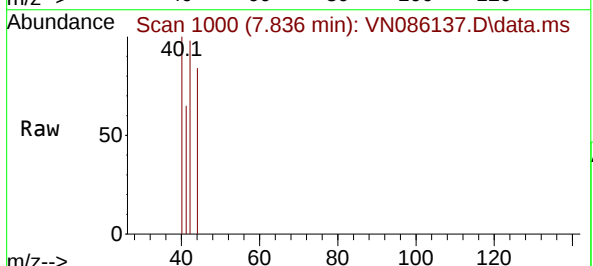
Instrument :
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ClientSampleId :
WC-5

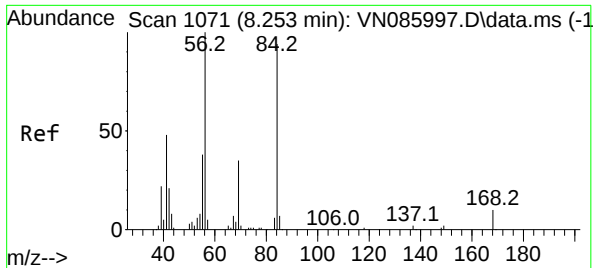
Tgt Ion: 43 Resp: 13111
Ion Ratio Lower Upper
43 100
72 33.9 27.4 41.0



#29
Tetrahydrofuran
Concen: 0.588 ug/l
RT: 7.836 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

Tgt Ion: 42 Resp: 423
Ion Ratio Lower Upper
42 100
72 0.0 45.0 67.4#
71 18.7 41.9 62.9#

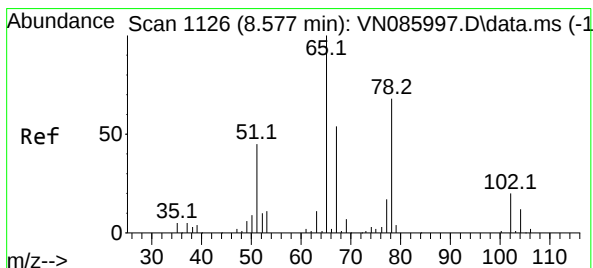
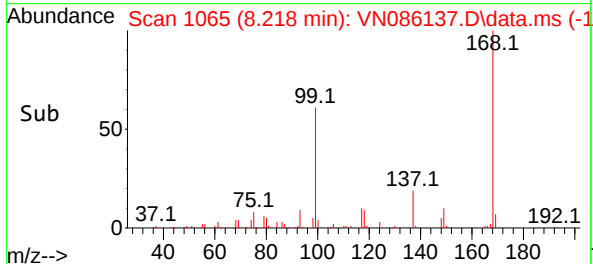
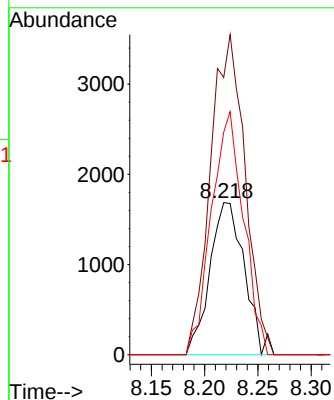
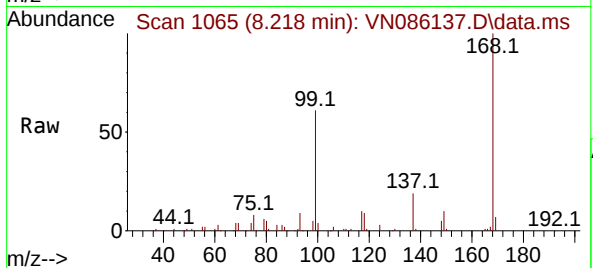




#31
Cyclohexane
Concen: 1.153 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

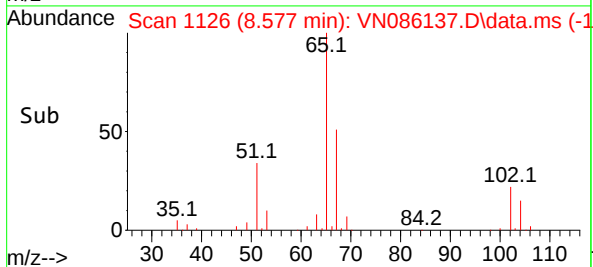
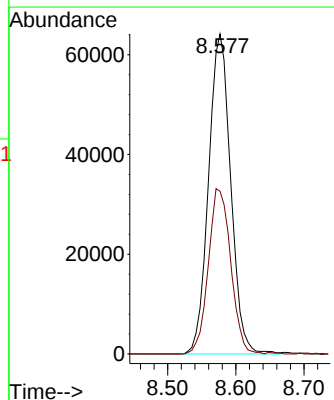
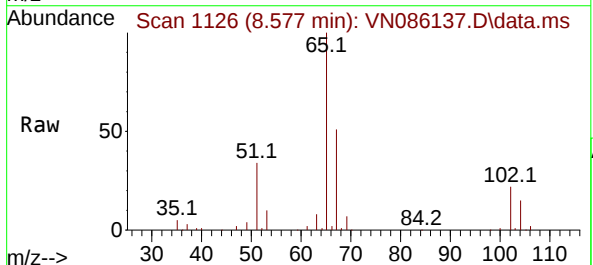
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ClientSampleId :
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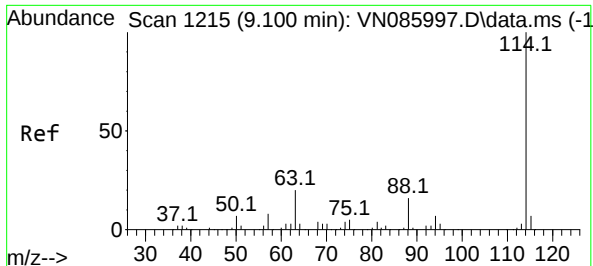
Tgt Ion: 56 Resp: 3794
Ion Ratio Lower Upper
56 100
69 182.4 28.0 42.0#
84 146.4 75.0 112.6#



#33
1,2-Dichloroethane-d4
Concen: 54.946 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

Tgt Ion: 65 Resp: 145147
Ion Ratio Lower Upper
65 100
67 52.2 0.0 102.2

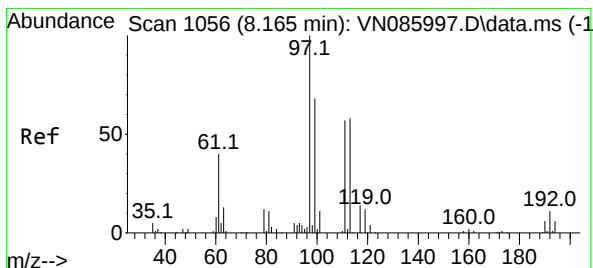
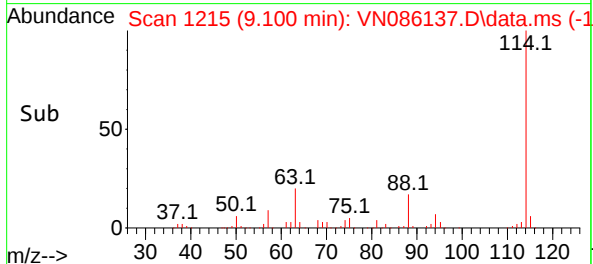
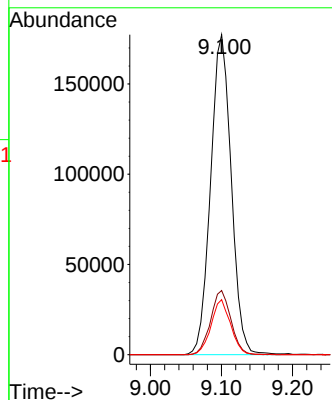
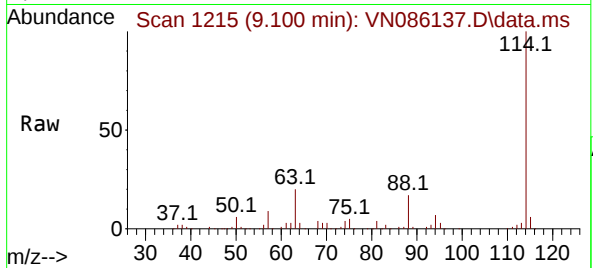




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

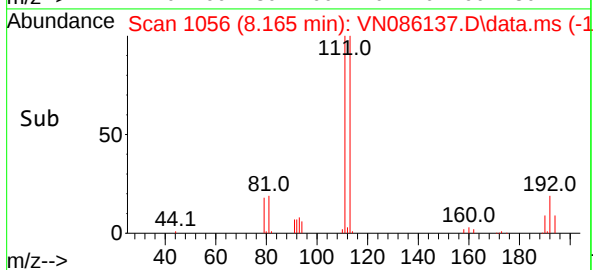
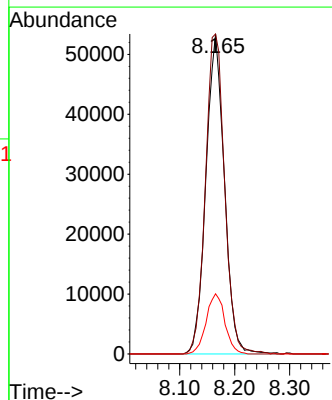
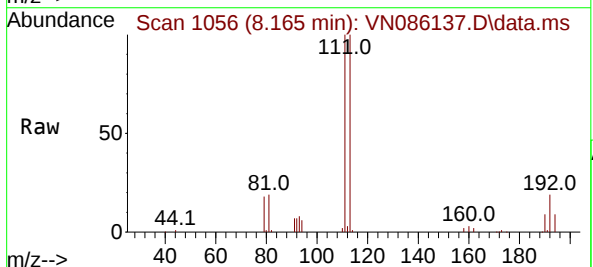
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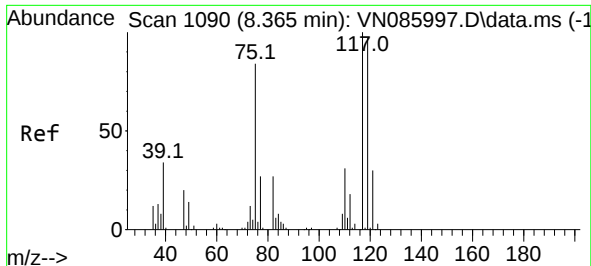
Tgt Ion:114 Resp: 357409
Ion Ratio Lower Upper
114 100
63 20.0 0.0 39.6
88 17.2 0.0 32.6



#35
Dibromofluoromethane
Concen: 49.855 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

Tgt Ion:113 Resp: 124371
Ion Ratio Lower Upper
113 100
111 103.8 81.8 122.8
192 19.1 15.9 23.9





#36

1,1-Dichloropropene

Concen: 4.867 ug/l

RT: 8.218 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN086137.D

Acq: 26 Mar 2025 19:36

Instrument :

MSVOA_N

ClientSampleId :

WC-5

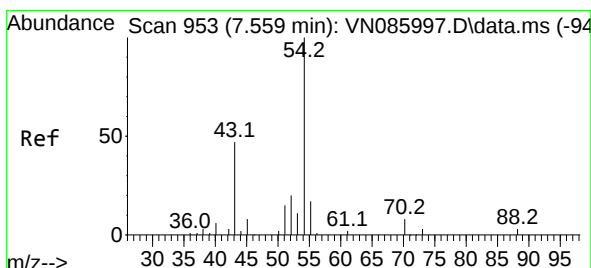
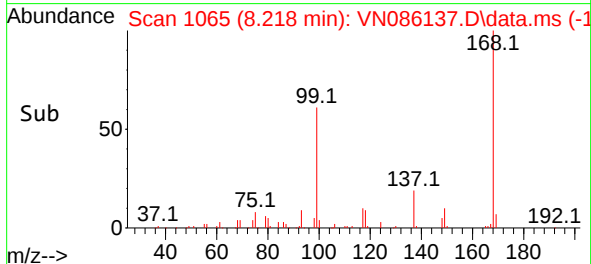
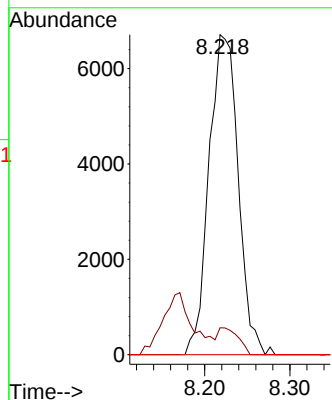
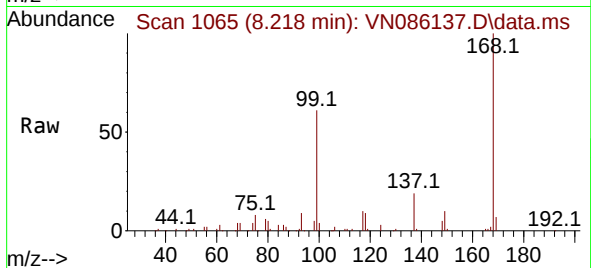
Tgt Ion: 75 Resp: 15988

Ion Ratio Lower Upper

75 100

110 5.7 17.8 53.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 4.731 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.077 min

Lab File: VN086137.D

Acq: 26 Mar 2025 19:36

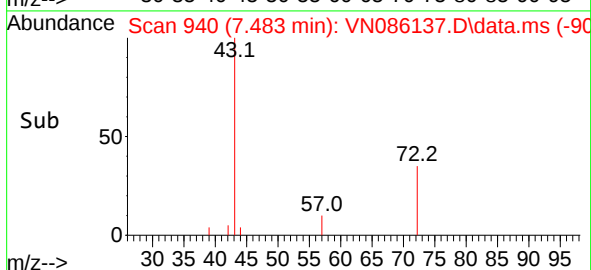
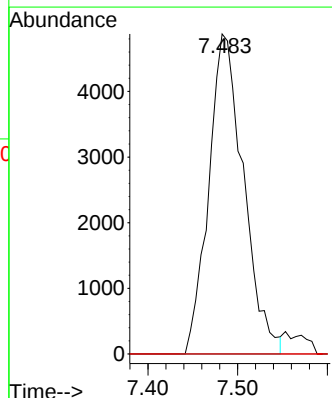
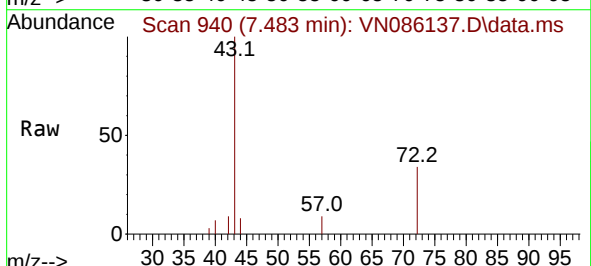
Tgt Ion: 43 Resp: 13111

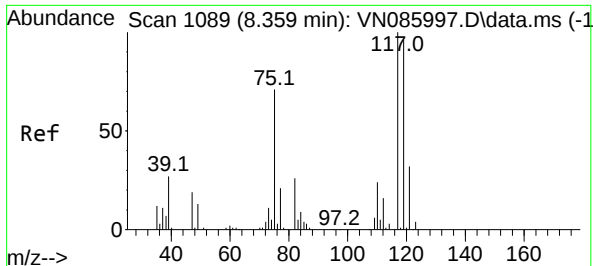
Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.4#

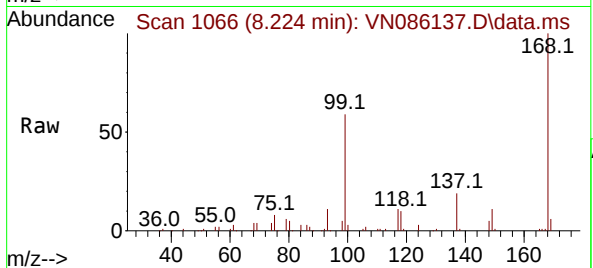
70 0.0 11.0 16.6#



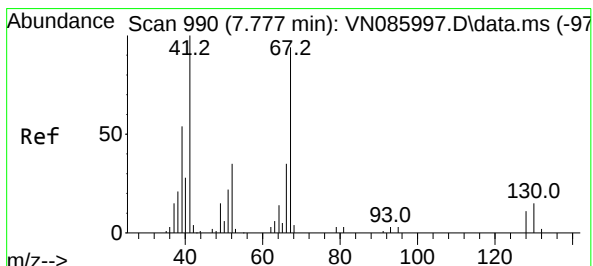
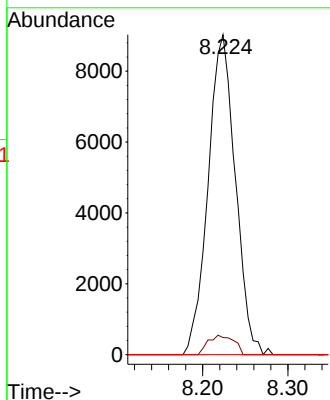
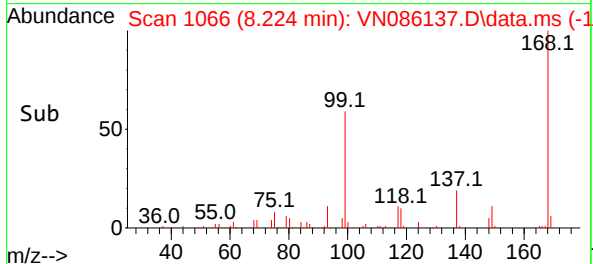


#38
Carbon Tetrachloride
Concen: 4.647 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

Instrument :
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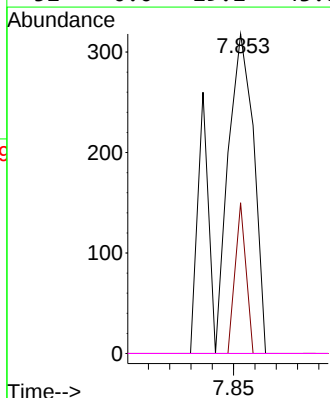
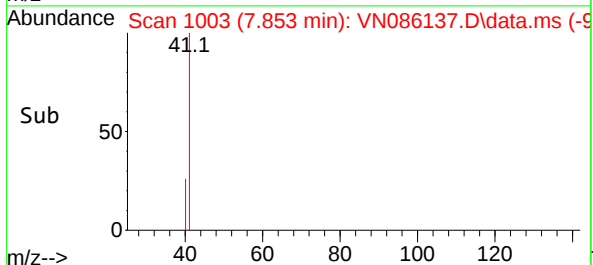
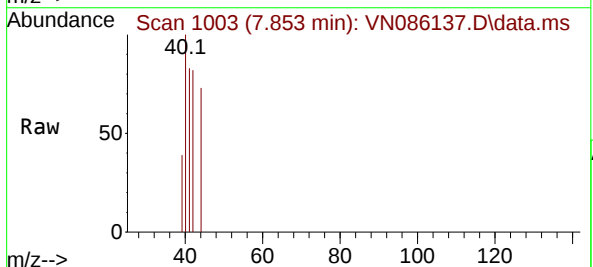


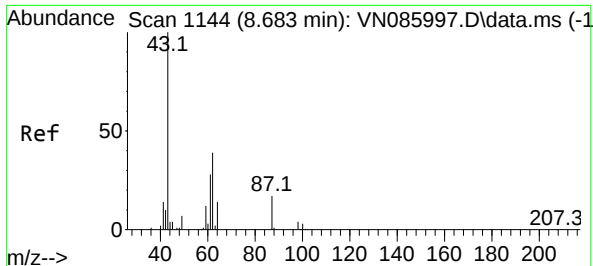
Tgt Ion:117 Resp: 20071
Ion Ratio Lower Upper
117 100
119 5.4 77.0 115.4#
121 0.0 25.6 38.4#



#41
Methacrylonitrile
Concen: 0.268 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.076 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

Tgt Ion: 41 Resp: 355
Ion Ratio Lower Upper
41 100
39 14.9 46.2 69.2#
67 0.0 75.9 113.9#
52 0.0 29.2 43.8#

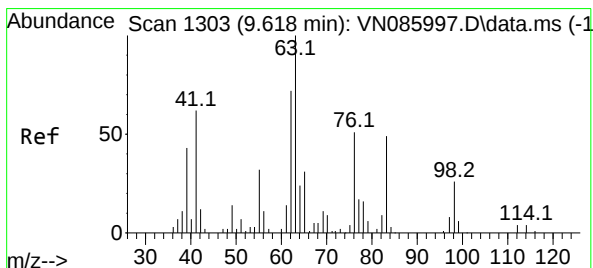
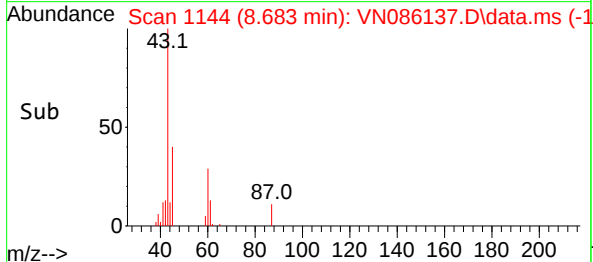
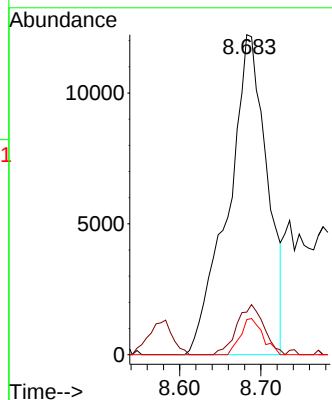
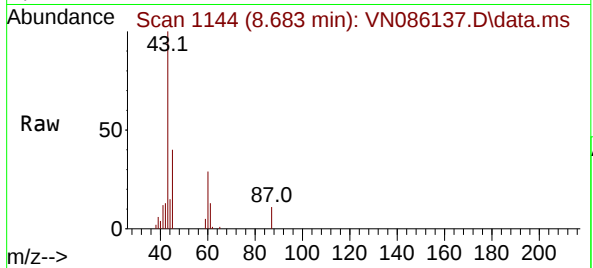




#43
Isopropyl Acetate
Concen: 6.805 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

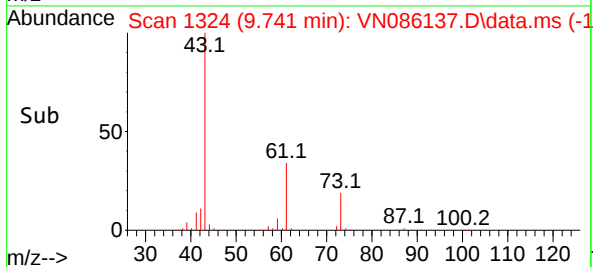
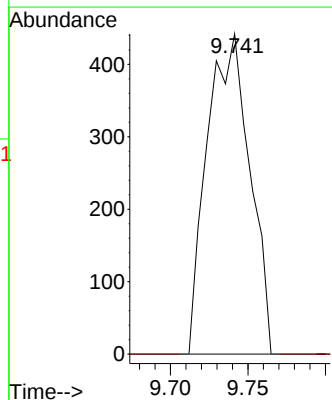
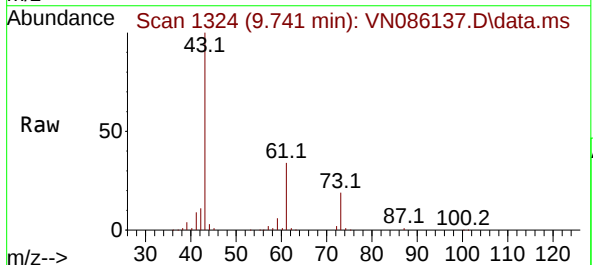
Instrument :
MSVOA_N
ClientSampleId :
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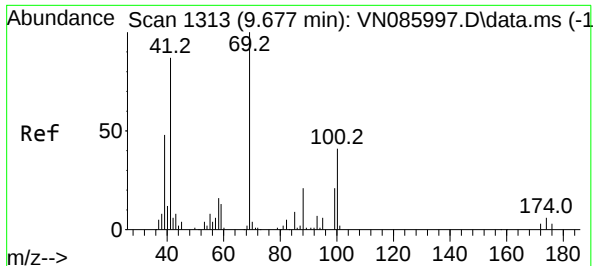
Tgt Ion: 43 Resp: 40863
Ion Ratio Lower Upper
43 100
61 10.8 25.0 37.6#
87 6.4 13.0 19.4#



#45
1,2-Dichloropropane
Concen: 0.361 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

Tgt Ion: 63 Resp: 846
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#

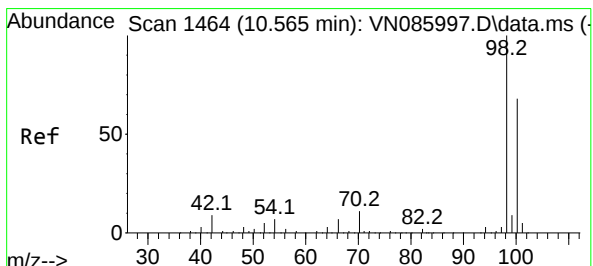
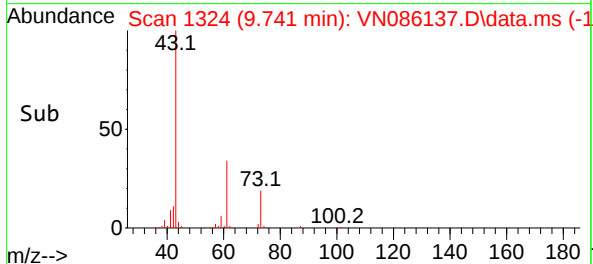
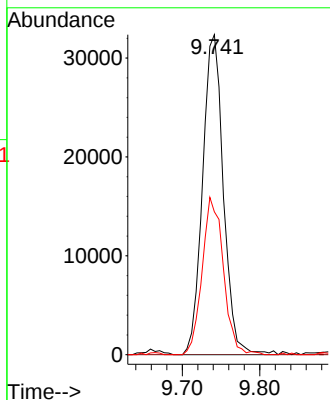
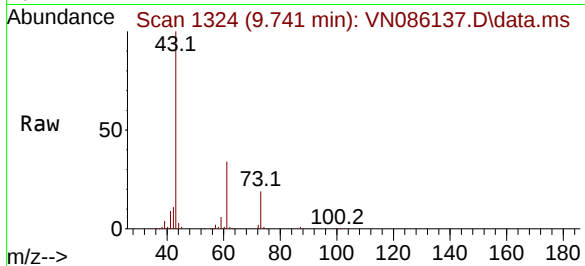




#48
Methyl methacrylate
Concen: 30.457 ug/l
RT: 9.741 min Scan# 1313
Delta R.T. 0.065 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

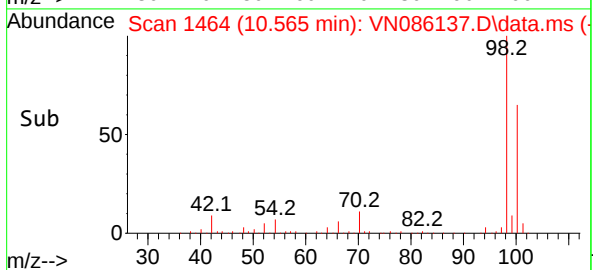
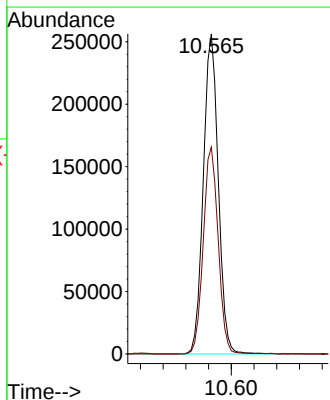
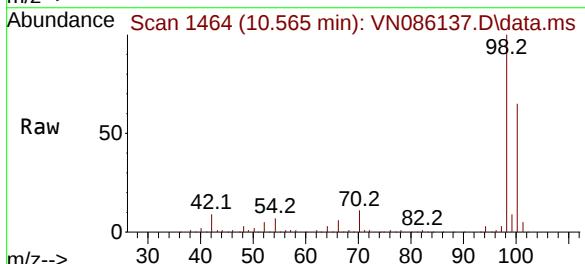
Instrument :
MSVOA_N
ClientSampleId :
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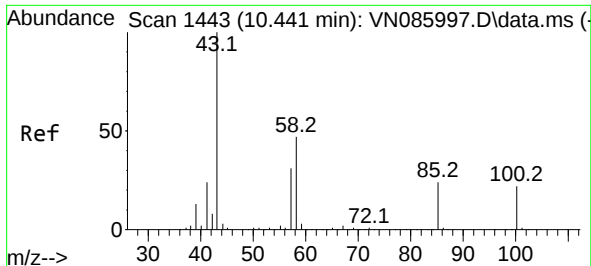
Tgt Ion: 41 Resp: 60354
Ion Ratio Lower Upper
41 100
69 0.0 83.1 124.7#
39 50.2 45.6 68.4



#50
Toluene-d8
Concen: 51.564 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

Tgt Ion: 98 Resp: 466852
Ion Ratio Lower Upper
98 100
100 64.5 53.1 79.7

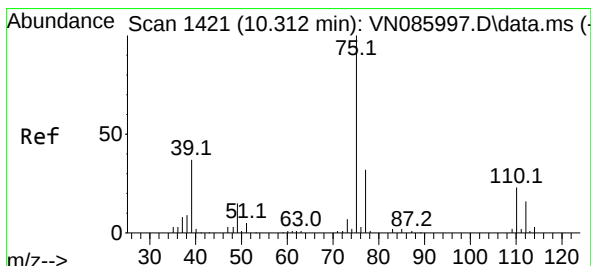
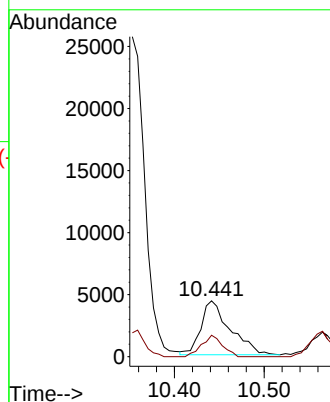
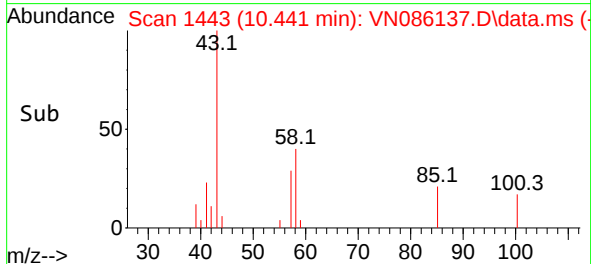
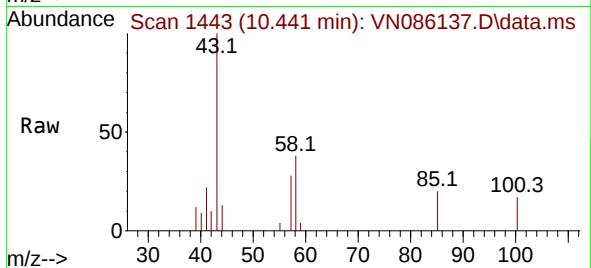




#51
4-Methyl-2-Pentanone
Concen: 3.701 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

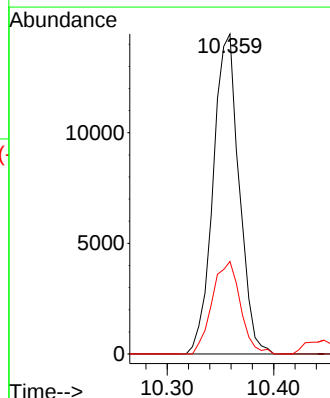
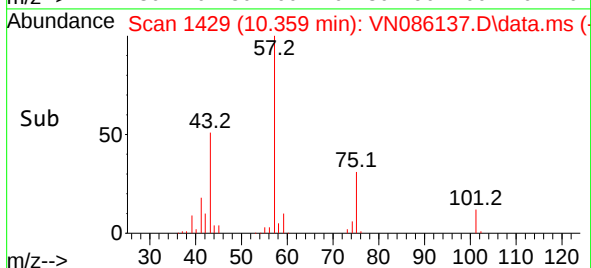
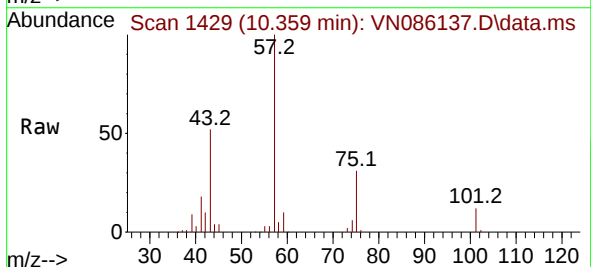
Instrument :
MSVOA_N
ClientSampleId :
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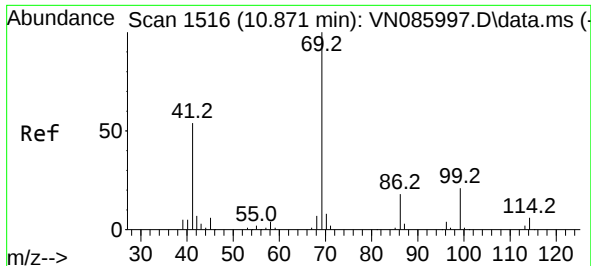
Tgt Ion: 43 Resp: 9802
Ion Ratio Lower Upper
43 100
58 28.2 37.4 56.0#



#54
cis-1,3-Dichloropropene
Concen: 6.204 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

Tgt Ion: 75 Resp: 24505
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#
39 28.9 29.6 44.4#

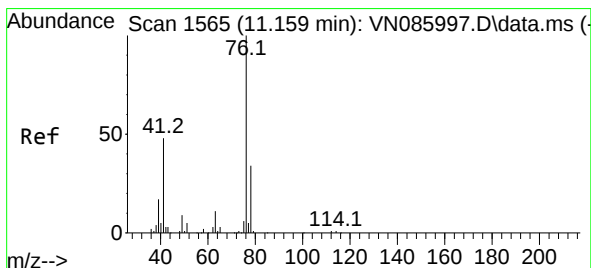
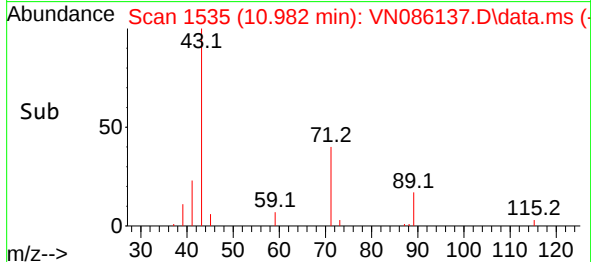
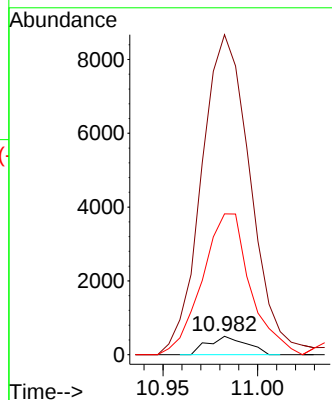
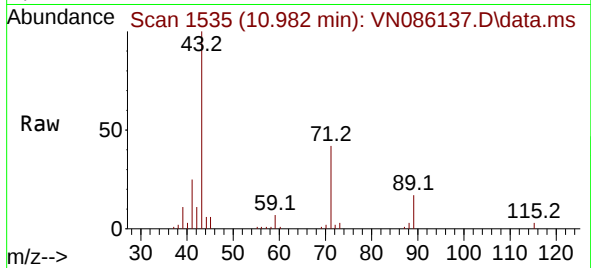




#56
Ethyl methacrylate
Concen: 0.419 ug/l
RT: 10.982 min Scan# 11
Delta R.T. 0.111 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

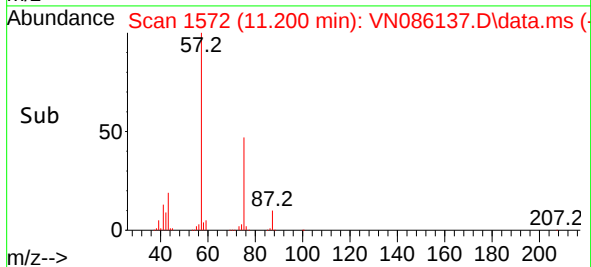
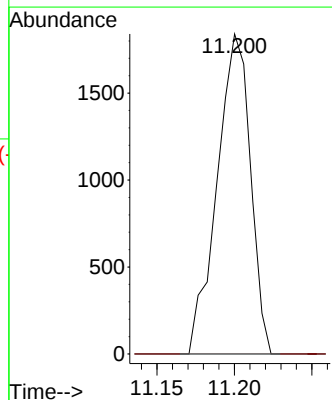
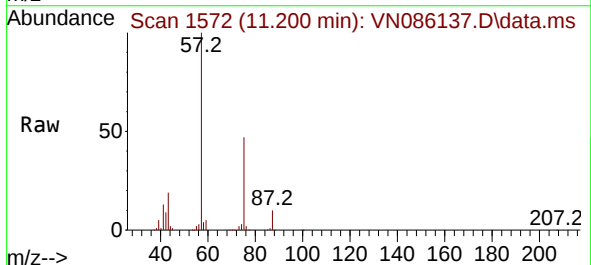
Instrument :
MSVOA_N
ClientSampleId :
WC-5

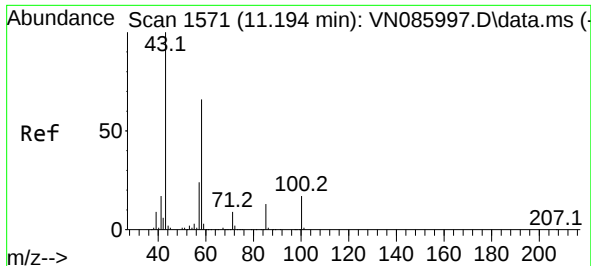
Tgt Ion: 69 Resp: 706
Ion Ratio Lower Upper
69 100
41 2232.2 41.6 62.4#
39 958.9 21.8 32.8#



#57
1,3-Dichloropropane
Concen: 0.671 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

Tgt Ion: 76 Resp: 2753
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

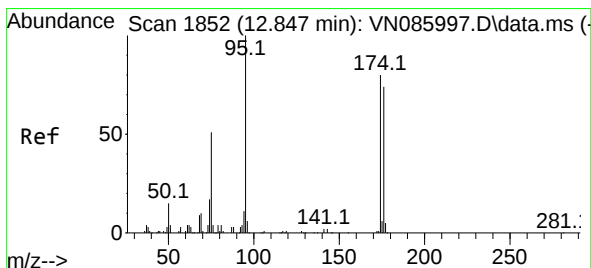
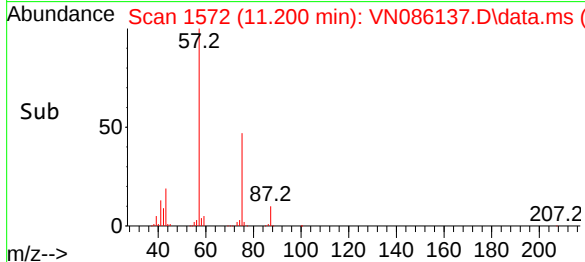
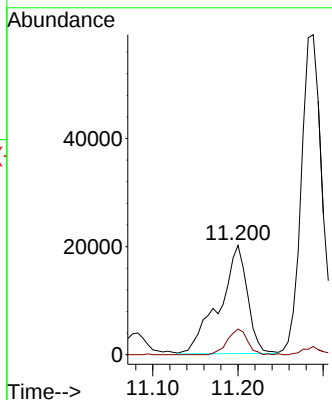
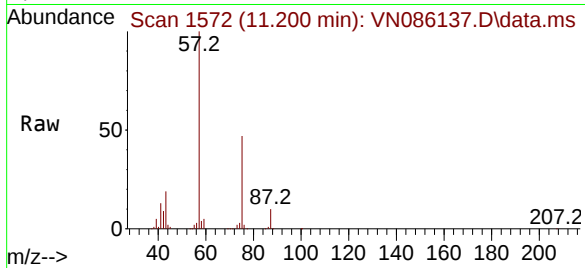




#59
2-Hexanone
Concen: 23.869 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

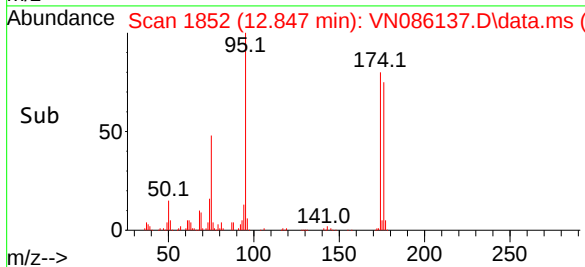
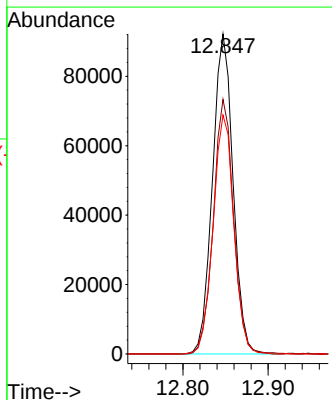
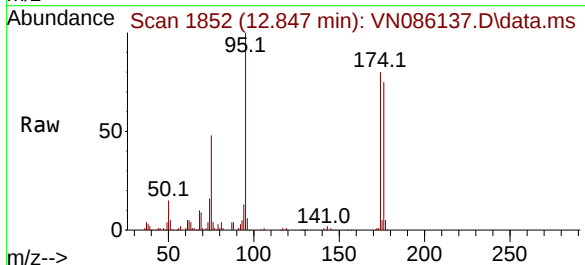
Instrument :
MSVOA_N
ClientSampleId :
WC-5

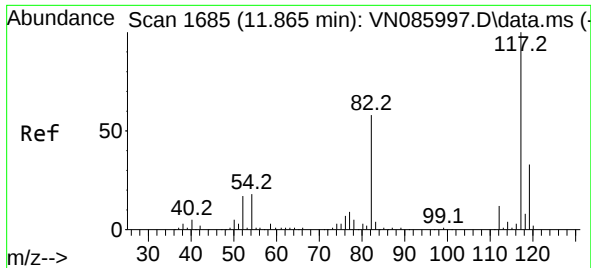
Tgt Ion: 43 Resp: 46052
Ion Ratio Lower Upper
43 100
58 17.0 32.4 97.2#



#62
4-Bromofluorobenzene
Concen: 47.812 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

Tgt Ion: 95 Resp: 154380
Ion Ratio Lower Upper
95 100
174 78.4 0.0 156.8
176 75.1 0.0 152.2

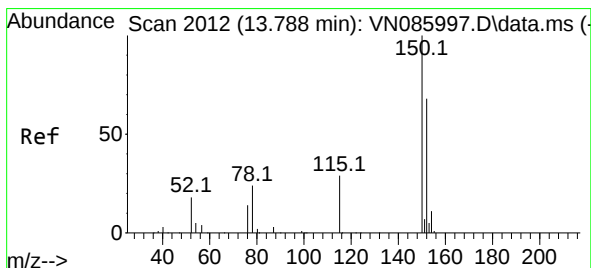
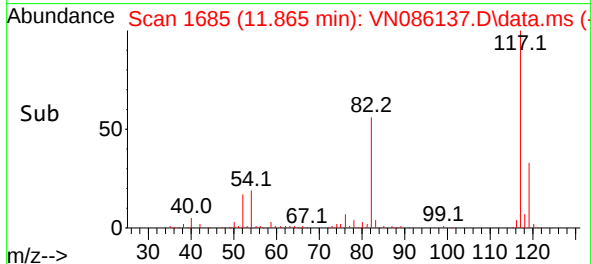
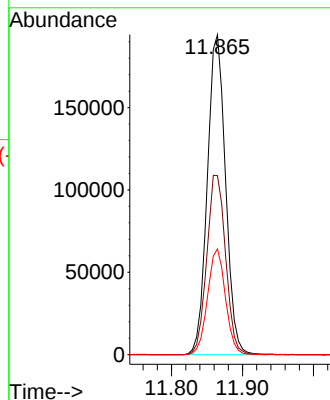
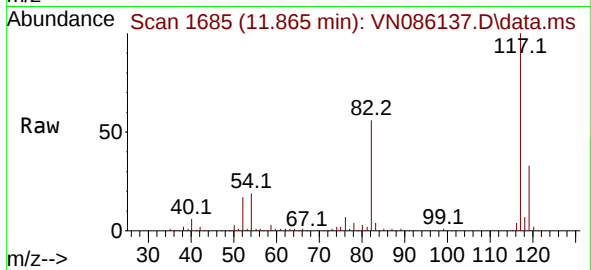




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

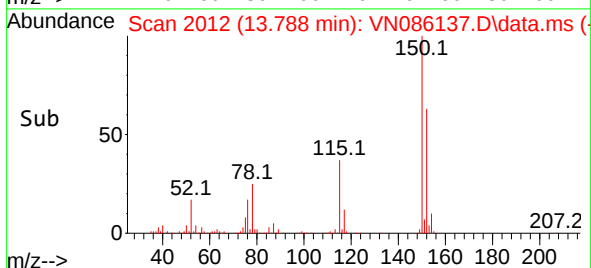
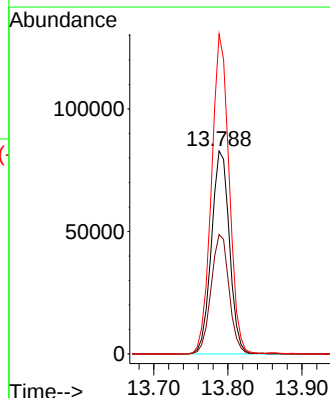
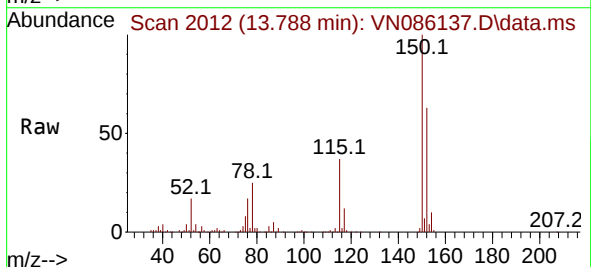
Instrument :
MSVOA_N
ClientSampleId :
WC-5

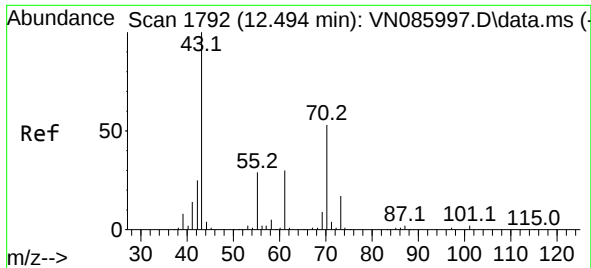
Tgt Ion:117 Resp: 346729
Ion Ratio Lower Upper
117 100
82 55.9 46.7 70.1
119 33.1 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

Tgt Ion:152 Resp: 140113
Ion Ratio Lower Upper
152 100
115 58.8 31.1 93.2
150 154.2 0.0 359.6

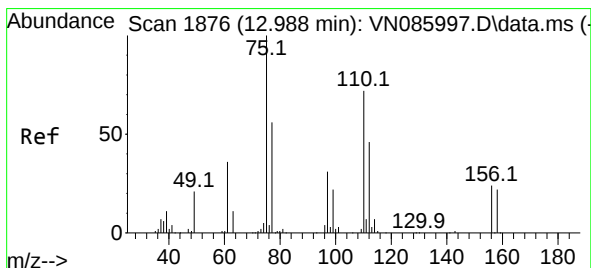
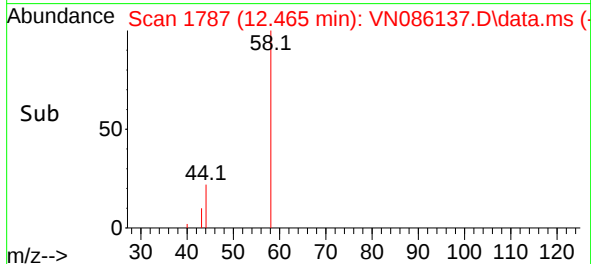
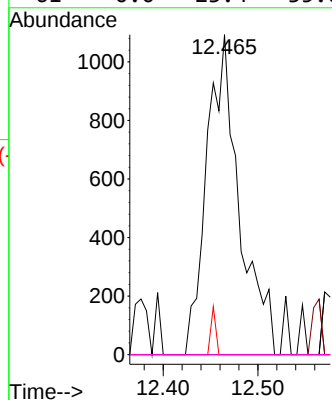
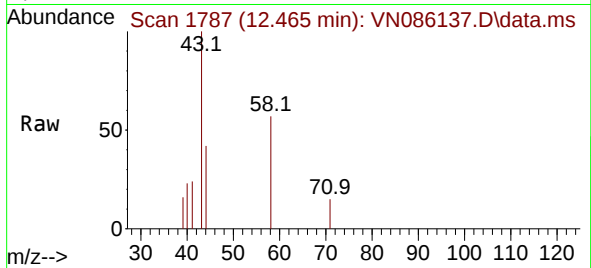




#74
N-amy1 acetate
Concen: 0.816 ug/l
RT: 12.465 min Scan# 1852
Delta R.T. -0.029 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

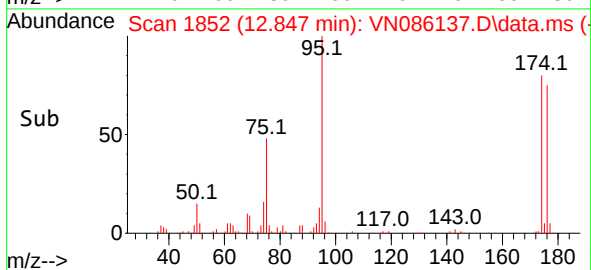
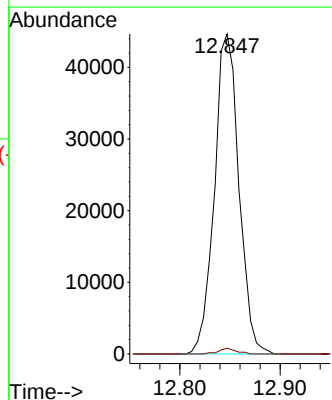
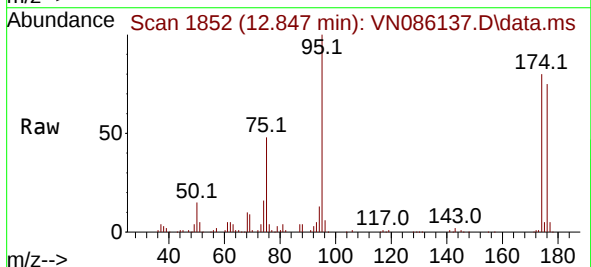
Instrument :
MSVOA_N
ClientSampleId :
WC-5

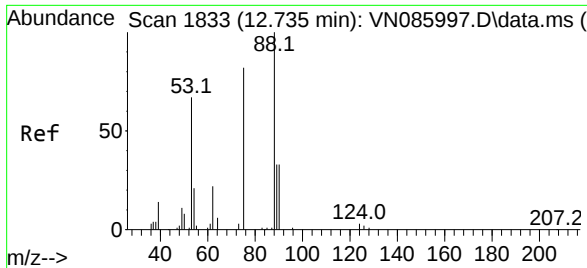
Tgt Ion: 43	Resp: 2613
Ion Ratio	Lower Upper
43 100	
70 0.0	43.0 64.4#
55 2.2	23.8 35.8#
61 0.0	23.4 35.0#



#76
1,2,3-Trichloropropane
Concen: 24.111 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086137.D
Acq: 26 Mar 2025 19:36

Tgt Ion: 75	Resp: 75632
Ion Ratio	Lower Upper
75 100	
77 1.3	83.7 251.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.745 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086137.D
 Acq: 26 Mar 2025 19:36

Instrument :
 MSVOA_N
 ClientSampleId :
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Tgt Ion: 75 Resp: 75632
 Ion Ratio Lower Upper
 75 100
 53 0.1 66.0 99.0#
 89 0.0 36.9 55.3#

