

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086881.D
 Acq On : 06 Jun 2025 20:59
 Operator : JC\MD
 Sample : Q2206-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

Quant Time: Jun 07 02:31:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

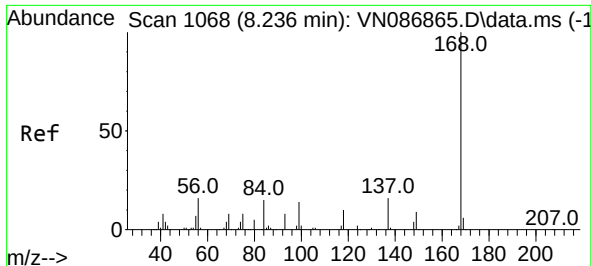
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.235	168	400132	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	698857	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	597277	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	286406	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	230762	43.074	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	86.140%		
35) Dibromofluoromethane	8.177	113	198644	47.963	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.920%		
50) Toluene-d8	10.571	98	837982	51.111	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.220%		
62) 4-Bromofluorobenzene	12.847	95	293743	48.223	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	96.440%		
Target Compounds					Qvalue	
8) Diethyl Ether	3.983	74	95315	31.507	ug/l	92
11) Tert butyl alcohol	5.547	59	1053	0.724	ug/l #	73
16) Acetone	4.447	43	31346	11.033	ug/l	96
18) Methyl Acetate	5.053	43	32422	3.916	ug/l	96
20) Methylene Chloride	5.294	84	6920	1.301	ug/l	87
25) 2-Butanone	7.506	43	7426	1.608	ug/l	99
29) Tetrahydrofuran	7.871	42	1142	0.380	ug/l #	79
31) Cyclohexane	8.230	56	7590	0.874	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	29279	4.744	ug/l #	48
37) Ethyl Acetate	7.571	43	23313	2.967	ug/l #	96
38) Carbon Tetrachloride	8.235	117	38492	6.353	ug/l #	18
43) Isopropyl Acetate	8.694	43	15394	1.221	ug/l	93
45) 1,2-Dichloropropane	9.747	63	1944	0.396	ug/l #	43
48) Methyl methacrylate	9.747	41	109771	18.914	ug/l #	34
51) 4-Methyl-2-Pentanone	10.365	43	123264	16.238	ug/l #	45
54) cis-1,3-Dichloropropene	10.359	75	76530	9.533	ug/l #	55
57) 1,3-Dichloropropane	11.212	76	4985	0.606	ug/l #	56
59) 2-Hexanone	11.212	43	70578	14.435	ug/l #	44
67) Ethyl Benzene	11.959	91	4898	0.216	ug/l #	78
68) m/p-Xylenes	12.065	106	2236	0.257	ug/l #	64
76) 1,2,3-Trichloropropane	12.847	75	134726	19.789	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	134726	45.554	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.488	105	3562	0.206	ug/l	82
86) p-Isopropyltoluene	13.723	119	9411	0.497	ug/l #	68
95) Naphthalene	15.641	128	26597	1.237	ug/l #	85

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

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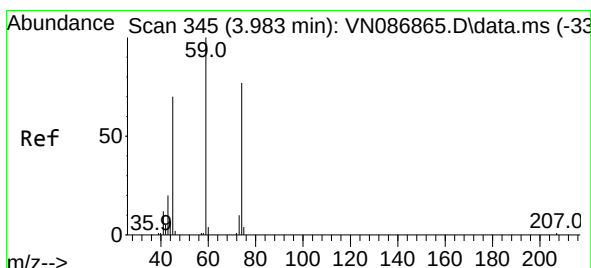
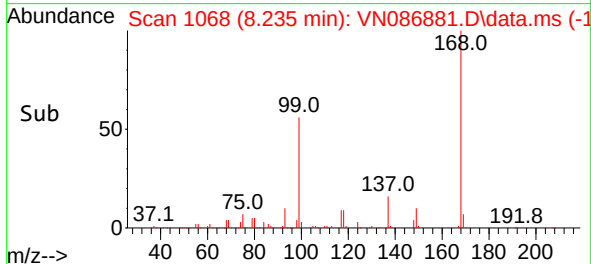
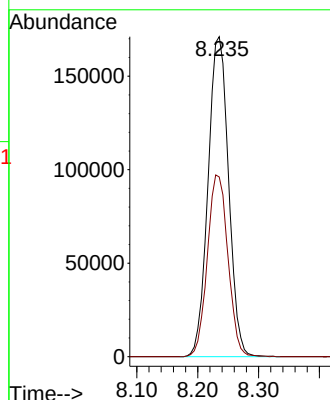
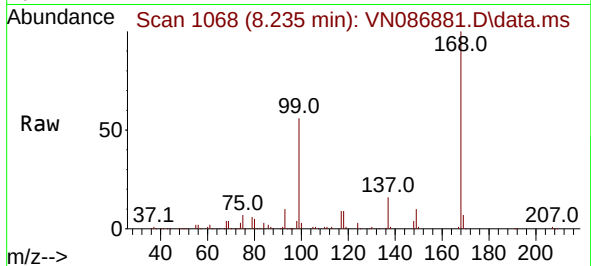




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

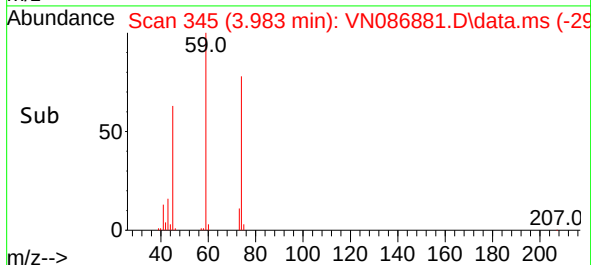
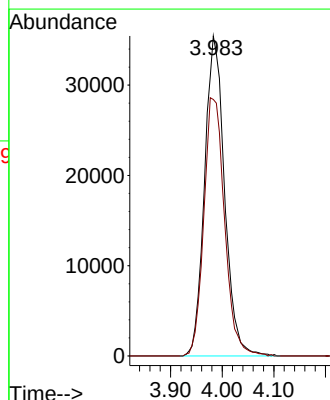
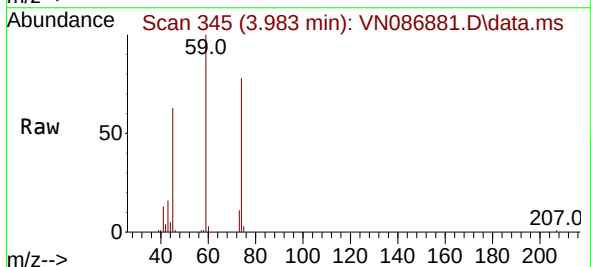
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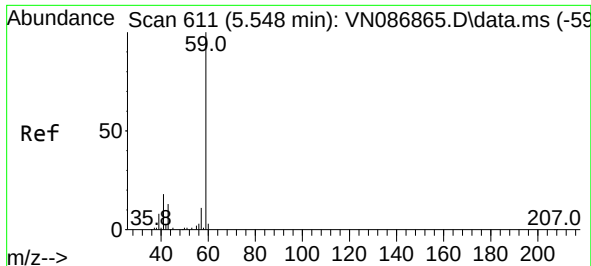
Tgt Ion:168 Resp: 400132
Ion Ratio Lower Upper
168 100
99 56.2 49.1 73.7



#8
Diethyl Ether
Concen: 31.507 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

Tgt Ion: 74 Resp: 95315
Ion Ratio Lower Upper
74 100
45 83.8 45.5 136.5

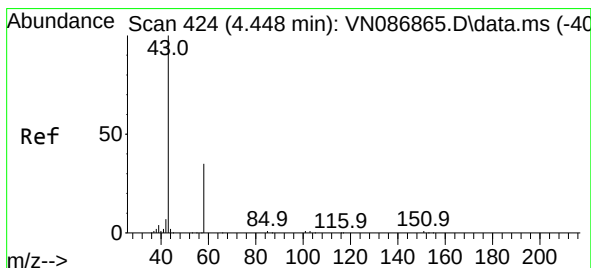
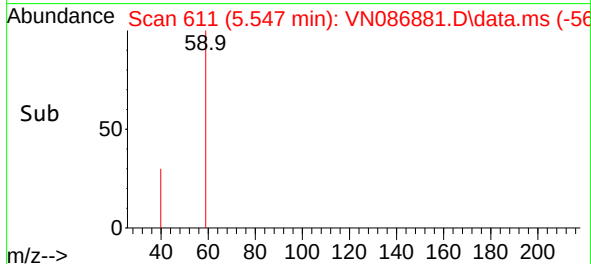
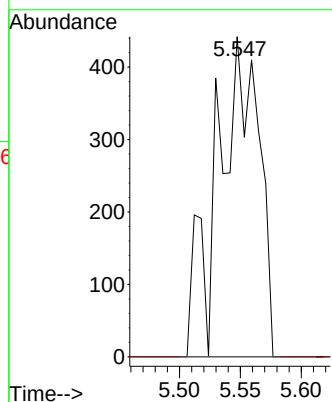
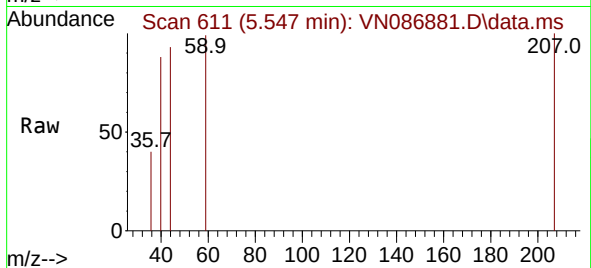




#11
Tert butyl alcohol
Concen: 0.724 ug/l
RT: 5.547 min Scan# 611
Delta R.T. -0.000 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

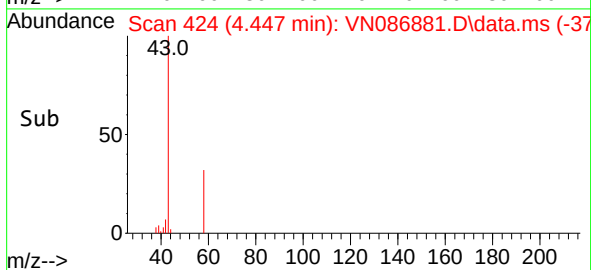
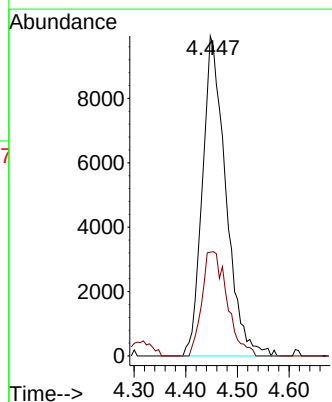
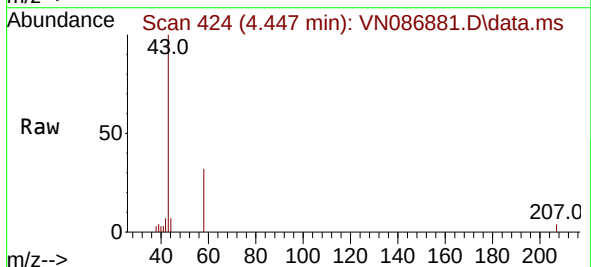
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ClientSampleId :
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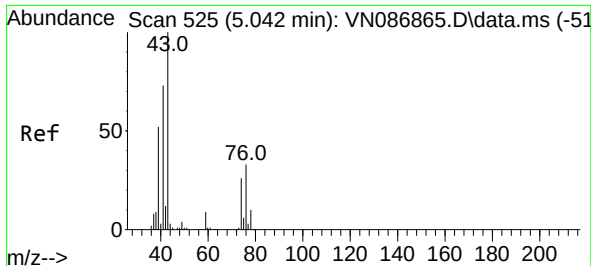
Tgt Ion: 59 Resp: 1053
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#16
Acetone
Concen: 11.033 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

Tgt Ion: 43 Resp: 31346
Ion Ratio Lower Upper
43 100
58 32.5 28.0 42.0

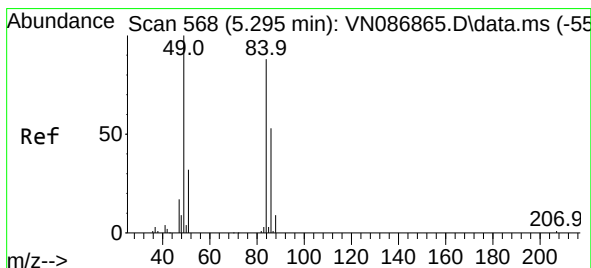
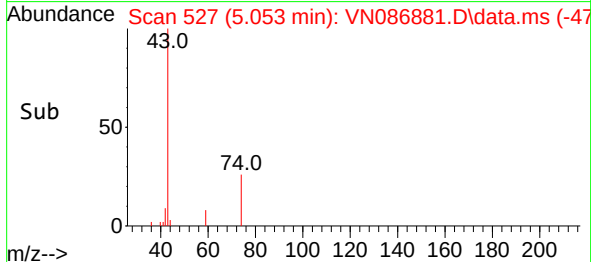
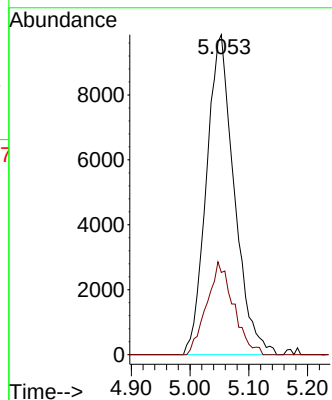
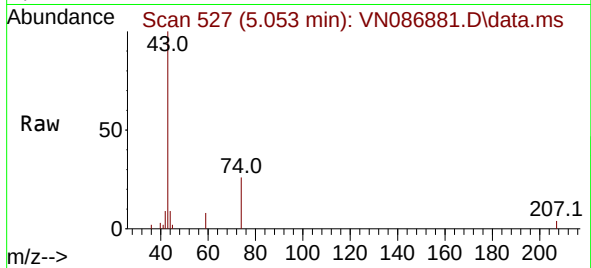




#18
Methyl Acetate
Concen: 3.916 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

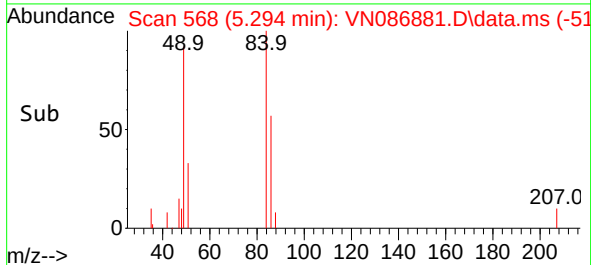
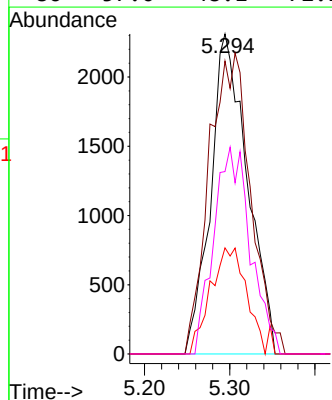
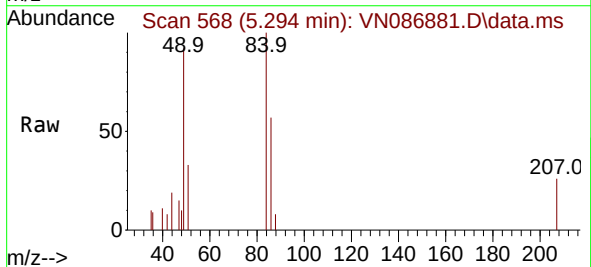
Instrument :
MSVOA_N
ClientSampleId :
TP-1

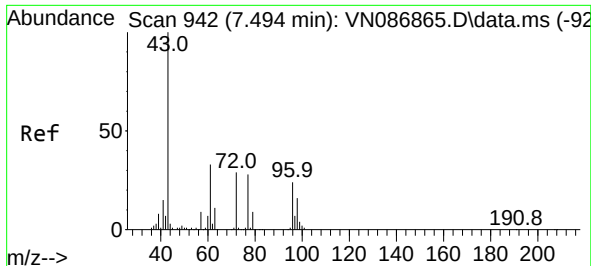
Tgt Ion: 43 Resp: 32422
Ion Ratio Lower Upper
43 100
74 27.9 20.7 31.1



#20
Methylene Chloride
Concen: 1.301 ug/l
RT: 5.294 min Scan# 568
Delta R.T. -0.000 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

Tgt Ion: 84 Resp: 6920
Ion Ratio Lower Upper
84 100
49 91.5 90.5 135.7
51 33.1 28.5 42.7
86 57.0 48.1 72.1

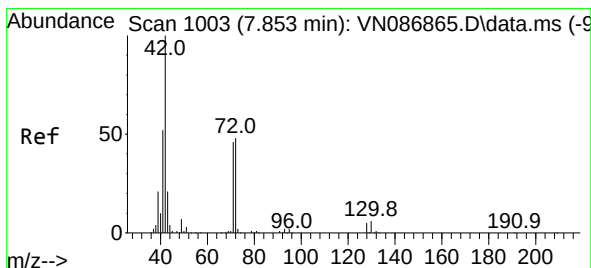
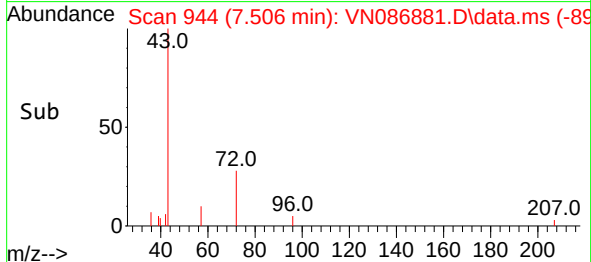
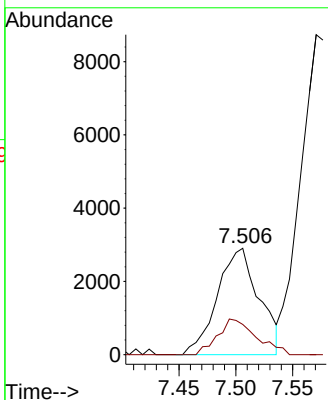
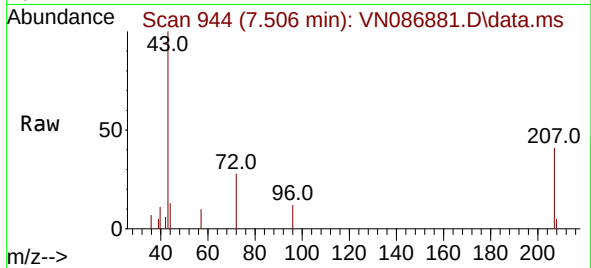




#25
2-Butanone
Concen: 1.608 ug/l
RT: 7.506 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

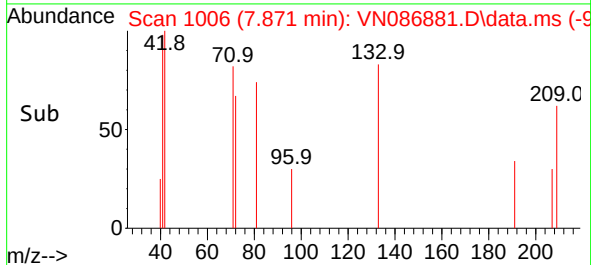
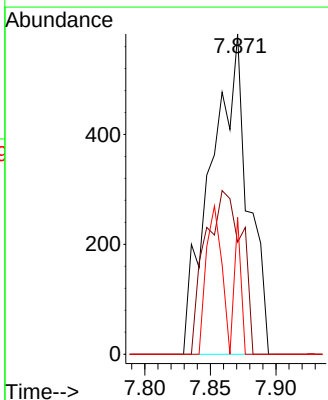
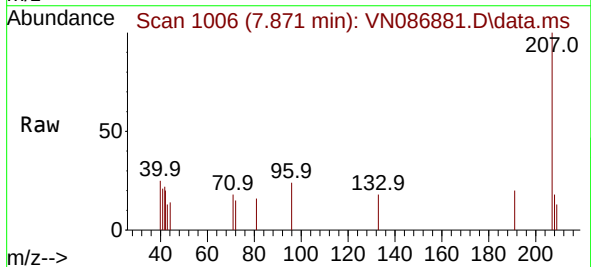
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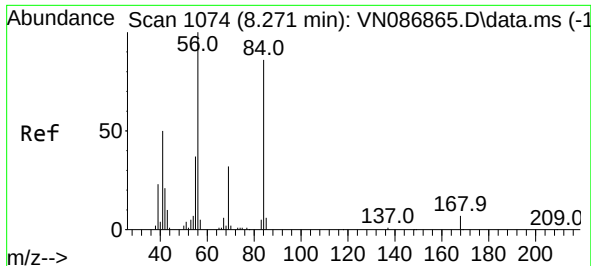
Tgt Ion: 43 Resp: 7426
Ion Ratio Lower Upper
43 100
72 28.4 23.0 34.6



#29
Tetrahydrofuran
Concen: 0.380 ug/l
RT: 7.871 min Scan# 1006
Delta R.T. 0.017 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

Tgt Ion: 42 Resp: 1142
Ion Ratio Lower Upper
42 100
72 50.4 37.8 56.6
71 19.4 35.6 53.4#

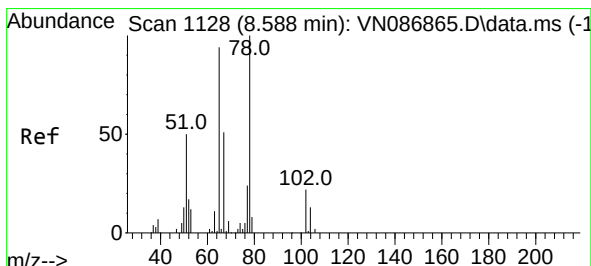
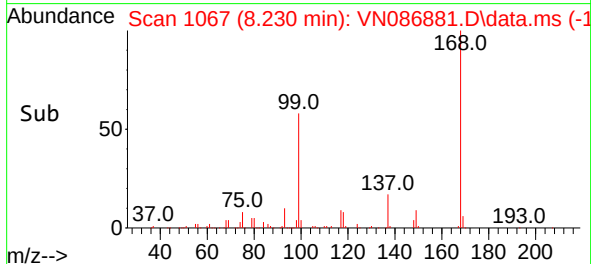
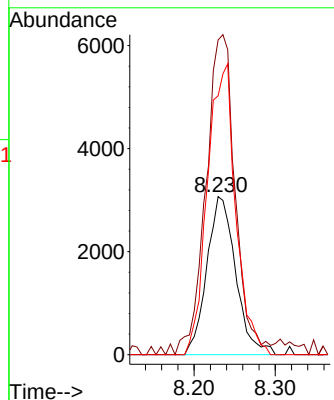
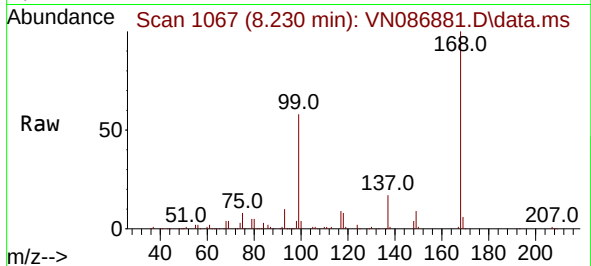




#31
Cyclohexane
Concen: 0.874 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.041 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

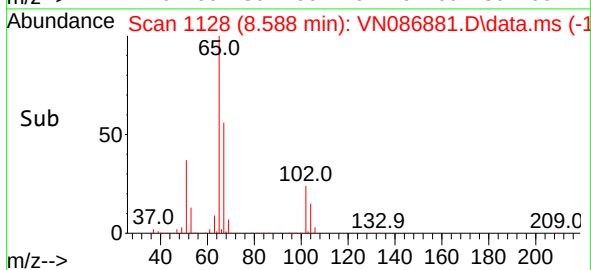
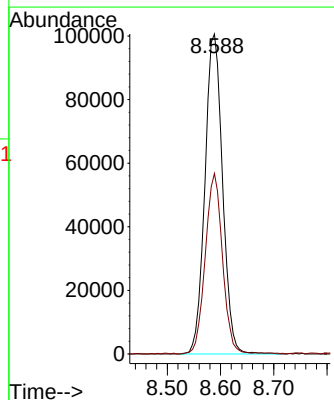
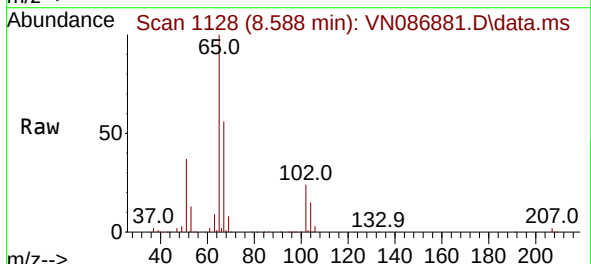
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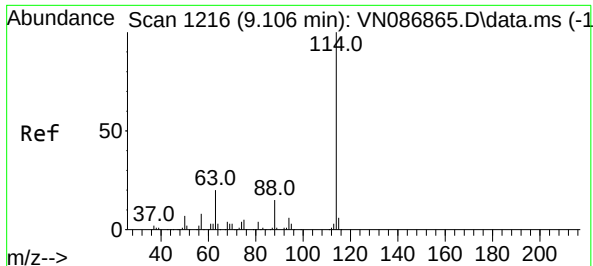
Tgt Ion: 56 Resp: 7590
Ion Ratio Lower Upper
56 100
69 190.0 25.4 38.0#
84 163.8 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 43.074 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

Tgt Ion: 65 Resp: 230762
Ion Ratio Lower Upper
65 100
67 55.1 0.0 105.6

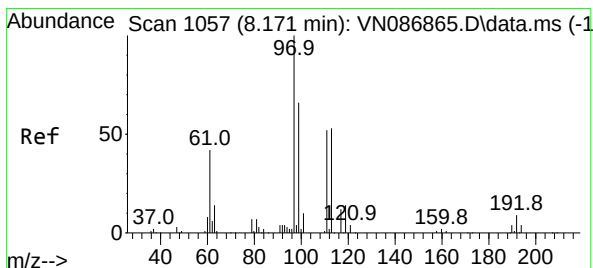
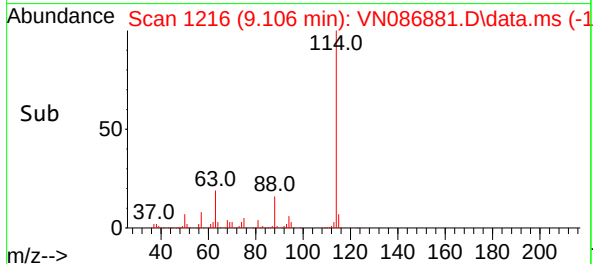
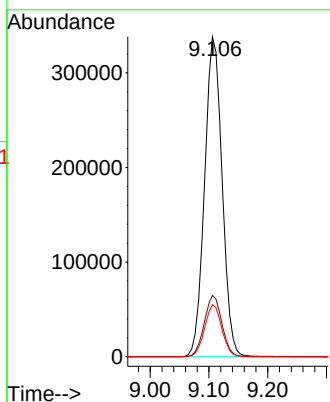
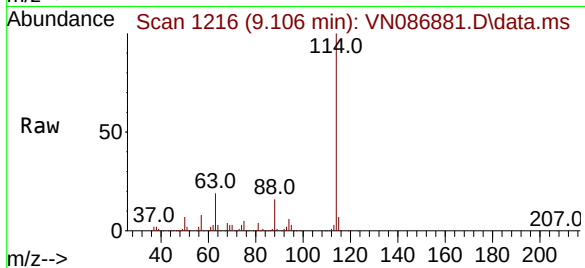




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

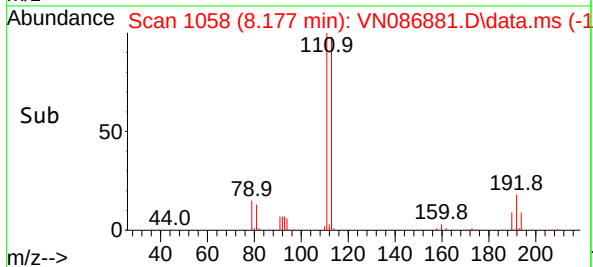
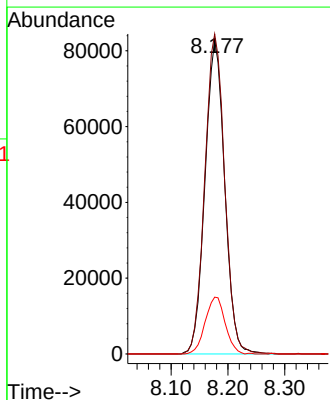
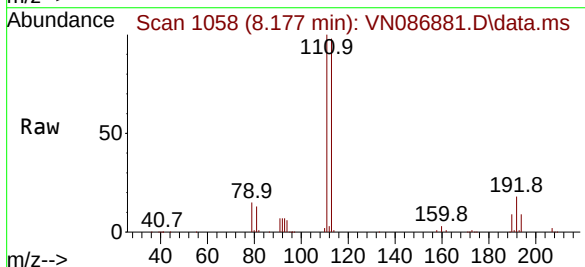
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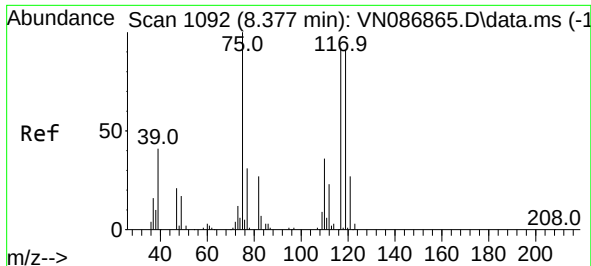
Tgt Ion:114 Resp: 698857
Ion Ratio Lower Upper
114 100
63 19.1 0.0 39.6
88 16.3 0.0 30.2



#35
Dibromofluoromethane
Concen: 47.963 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

Tgt Ion:113 Resp: 198644
Ion Ratio Lower Upper
113 100
111 103.1 84.2 126.2
192 18.5 14.2 21.4





#36

1,1-Dichloropropene

Concen: 4.744 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN086881.D

Acq: 06 Jun 2025 20:59

Instrument :

MSVOA_N

ClientSampleId :

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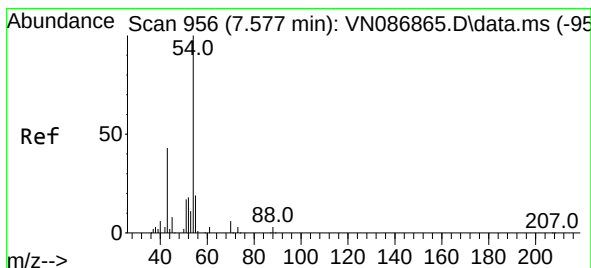
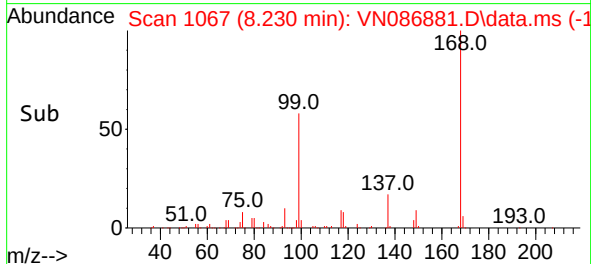
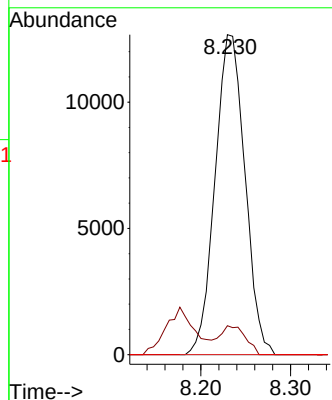
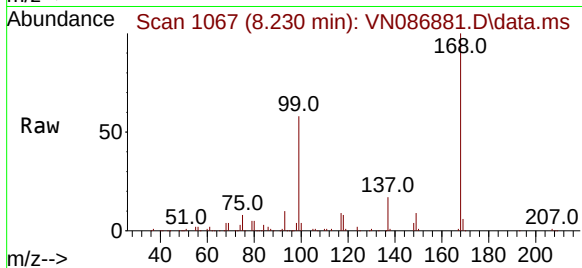
Tgt Ion: 75 Resp: 29279

Ion Ratio Lower Upper

75 100

110 7.8 17.6 52.9#

77 0.0 25.3 37.9#



#37

Ethyl Acetate

Concen: 2.967 ug/l

RT: 7.571 min Scan# 955

Delta R.T. -0.006 min

Lab File: VN086881.D

Acq: 06 Jun 2025 20:59

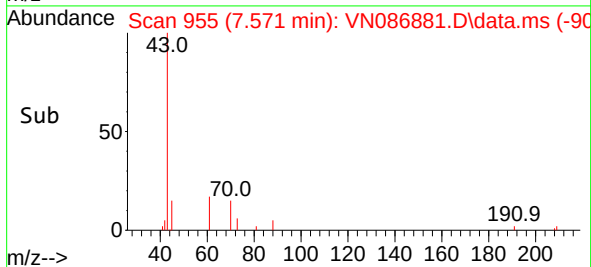
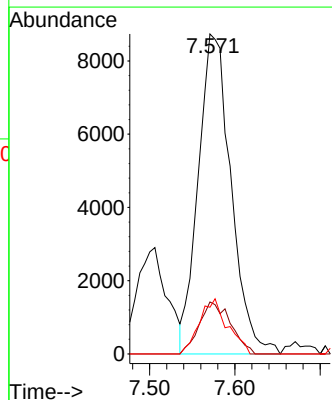
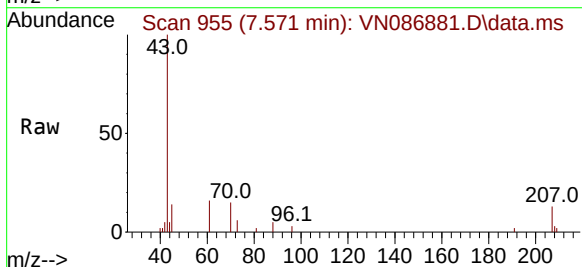
Tgt Ion: 43 Resp: 23313

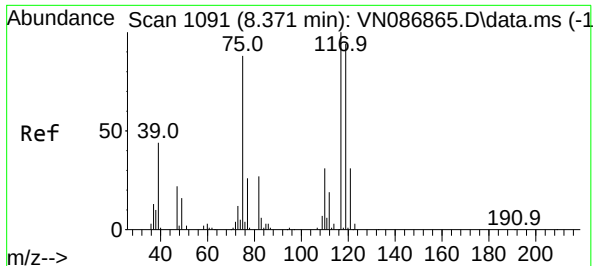
Ion Ratio Lower Upper

43 100

61 15.6 12.1 18.1

70 14.9 9.8 14.6#

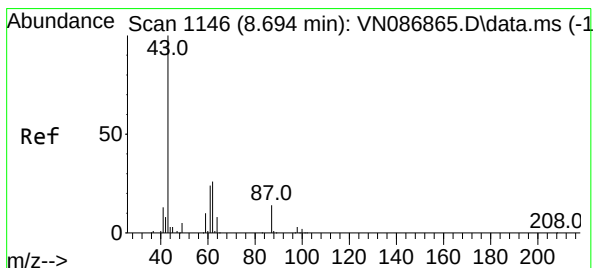
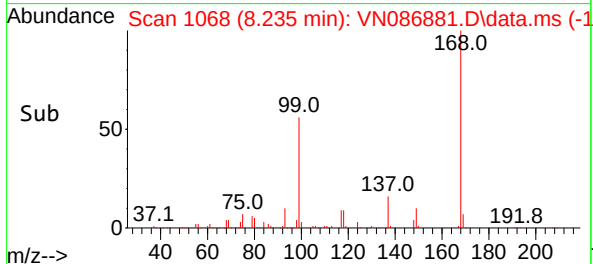
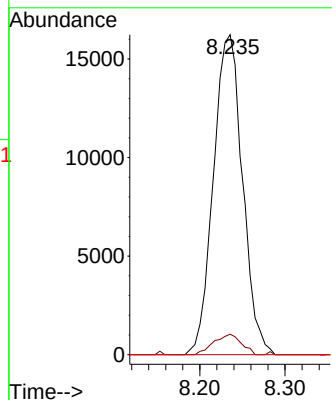
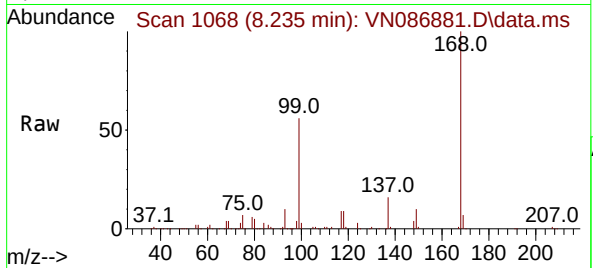




#38
Carbon Tetrachloride
Concen: 6.353 ug/l
RT: 8.235 min Scan# 1091
Delta R.T. -0.135 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

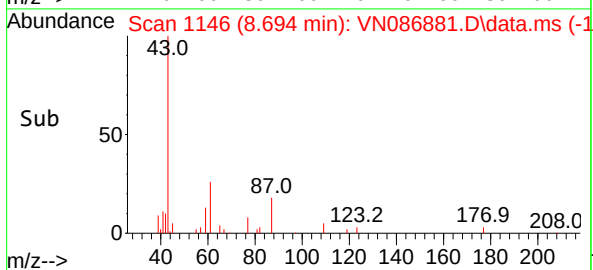
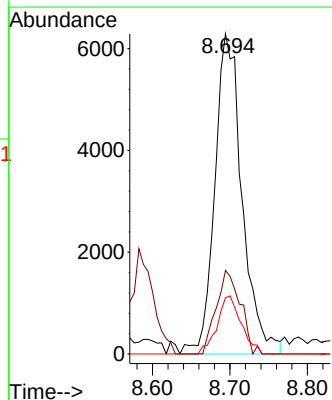
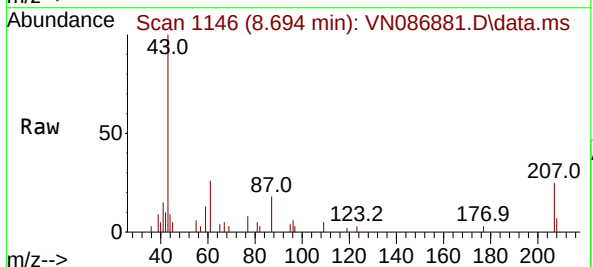
Instrument :
MSVOA_N
ClientSampleId :
TP-1

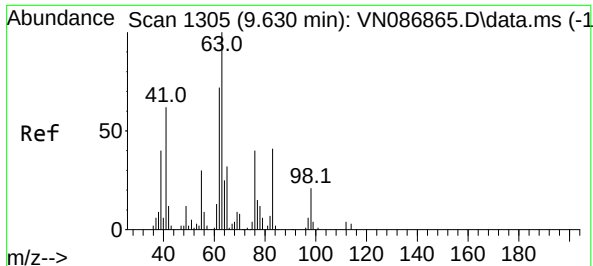
Tgt Ion:117 Resp: 38492
Ion Ratio Lower Upper
117 100
119 6.4 75.0 112.6#
121 0.0 24.9 37.3#



#43
Isopropyl Acetate
Concen: 1.221 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

Tgt Ion: 43 Resp: 15394
Ion Ratio Lower Upper
43 100
61 23.1 22.1 33.1
87 16.0 11.8 17.6





#45

1,2-Dichloropropane

Concen: 0.396 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.117 min

Lab File: VN086881.D

Acq: 06 Jun 2025 20:59

Instrument :

MSVOA_N

ClientSampleId :

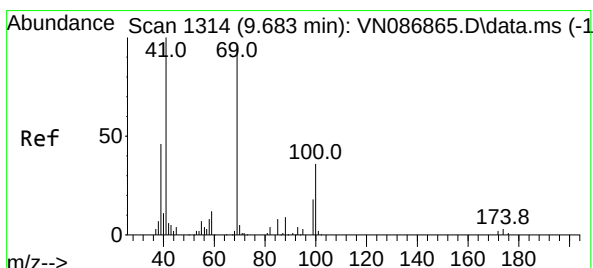
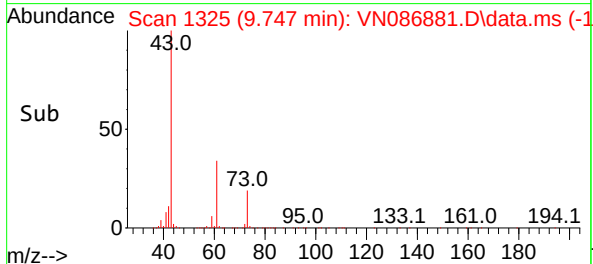
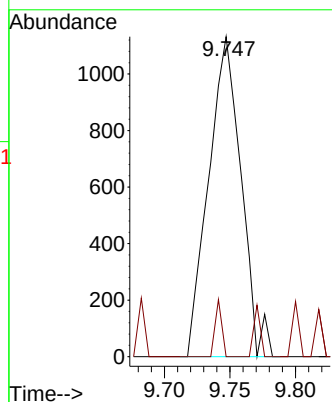
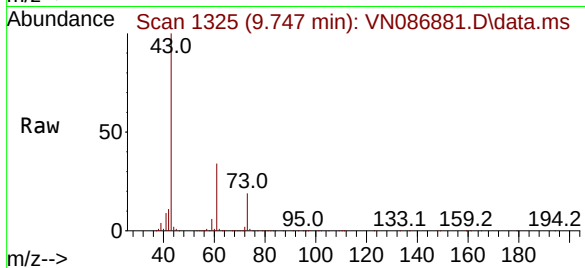
TP-1

Tgt Ion: 63 Resp: 1944

Ion Ratio Lower Upper

63 100

65 0.0 25.5 38.3#



#48

Methyl methacrylate

Concen: 18.914 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.065 min

Lab File: VN086881.D

Acq: 06 Jun 2025 20:59

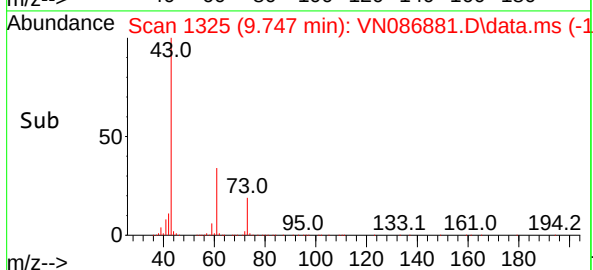
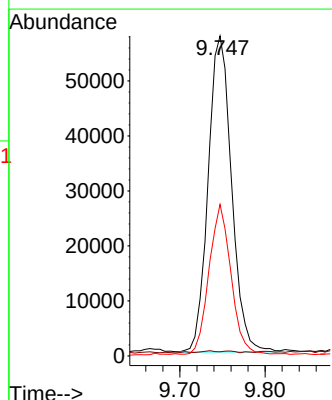
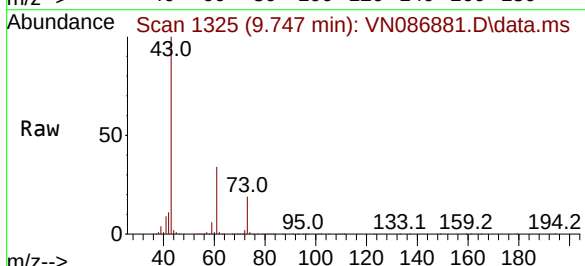
Tgt Ion: 41 Resp: 109771

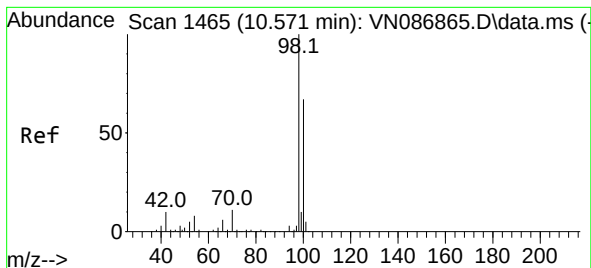
Ion Ratio Lower Upper

41 100

69 0.3 74.6 112.0#

39 44.1 40.2 60.4

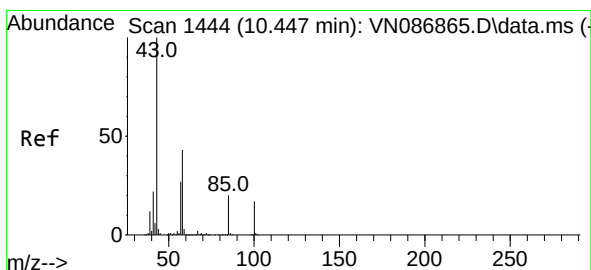
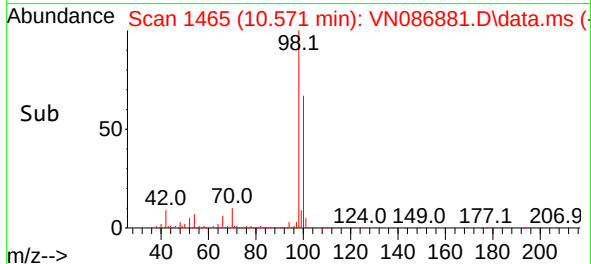
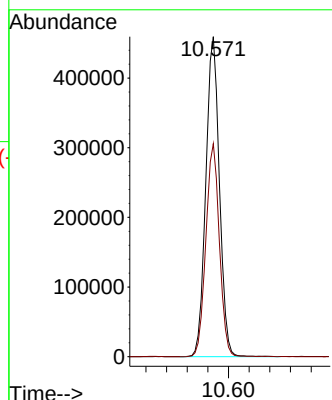
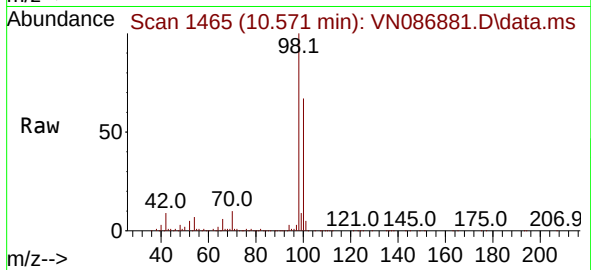




#50
Toluene-d8
Concen: 51.111 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

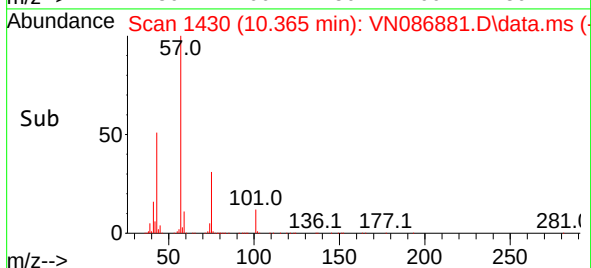
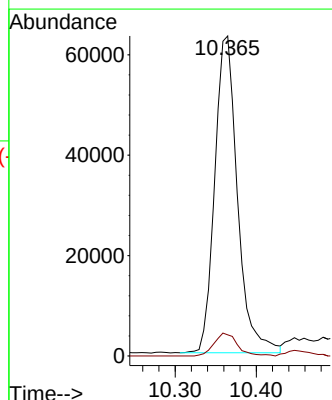
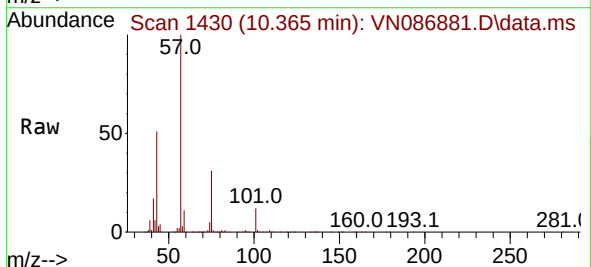
Instrument :
MSVOA_N
ClientSampleId :
TP-1

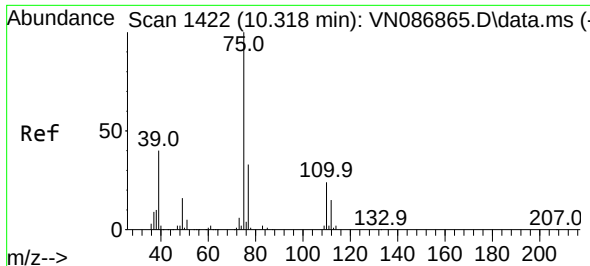
Tgt Ion: 98 Resp: 837982
Ion Ratio Lower Upper
98 100
100 66.2 53.4 80.0



#51
4-Methyl-2-Pentanone
Concen: 16.238 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. -0.083 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

Tgt Ion: 43 Resp: 123264
Ion Ratio Lower Upper
43 100
58 7.4 34.2 51.4#

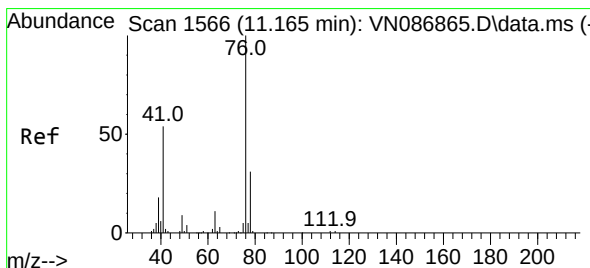
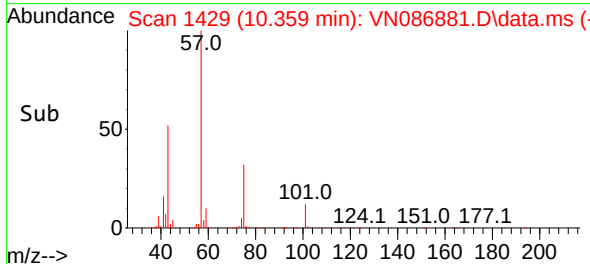
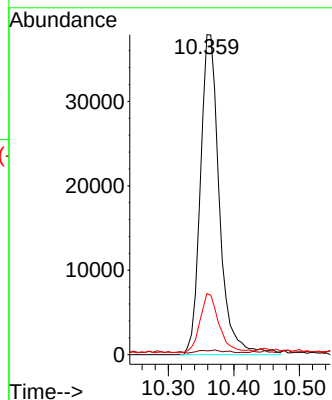
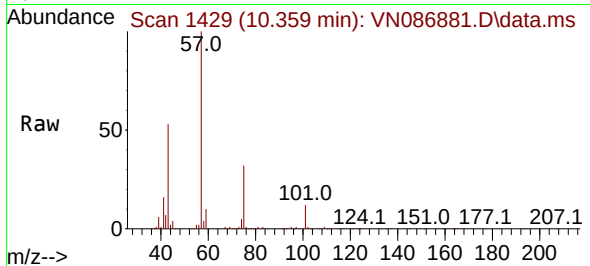




#54
 cis-1,3-Dichloropropene
 Concen: 9.533 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.041 min
 Lab File: VN086881.D
 Acq: 06 Jun 2025 20:59

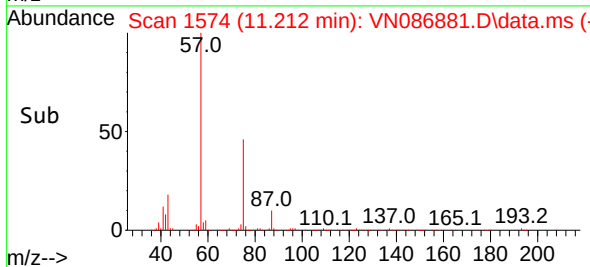
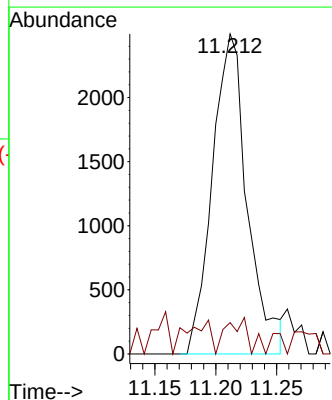
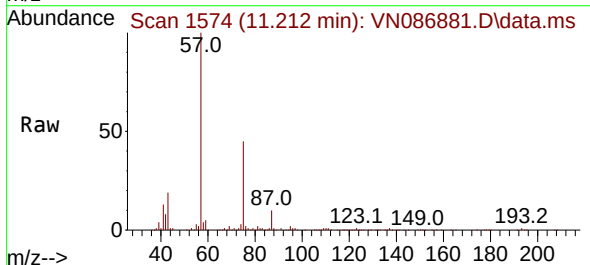
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

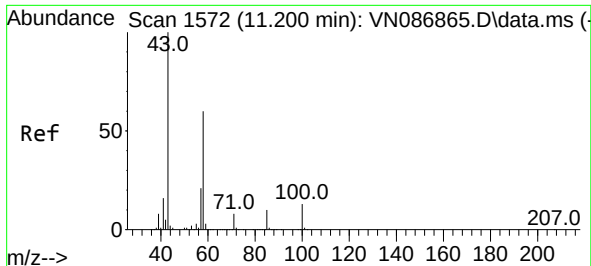
Tgt Ion: 75 Resp: 76530
 Ion Ratio Lower Upper
 75 100
 77 0.3 26.2 39.4#
 39 18.5 32.3 48.5#



#57
 1,3-Dichloropropane
 Concen: 0.606 ug/l
 RT: 11.212 min Scan# 1574
 Delta R.T. 0.047 min
 Lab File: VN086881.D
 Acq: 06 Jun 2025 20:59

Tgt Ion: 76 Resp: 4985
 Ion Ratio Lower Upper
 76 100
 78 7.5 25.3 37.9#

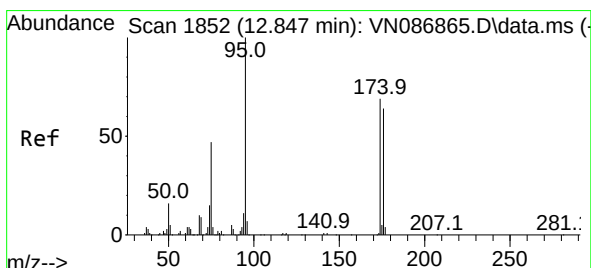
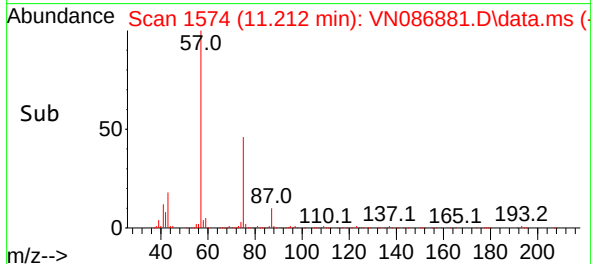
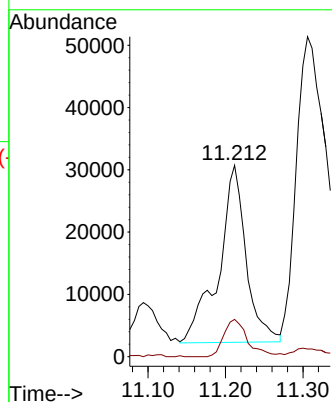
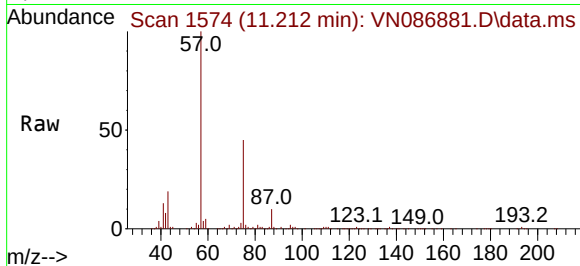




#59
2-Hexanone
Concen: 14.435 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.012 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

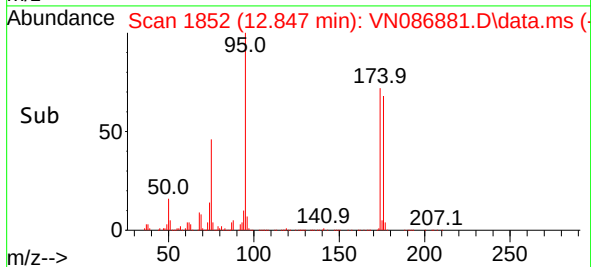
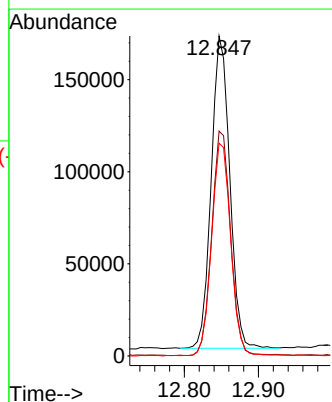
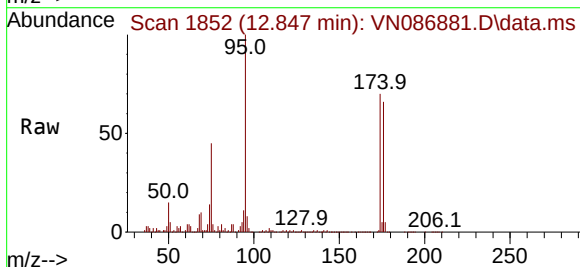
Instrument :
MSVOA_N
ClientSampleId :
TP-1

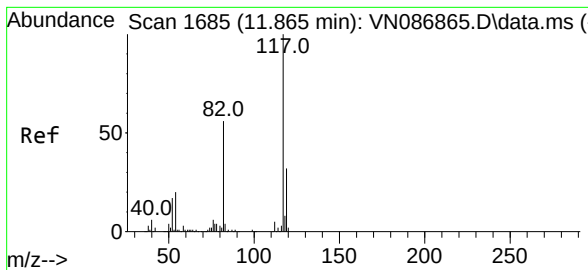
Tgt Ion: 43 Resp: 70578
Ion Ratio Lower Upper
43 100
58 18.1 30.4 91.3#



#62
4-Bromofluorobenzene
Concen: 48.223 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

Tgt Ion: 95 Resp: 293743
Ion Ratio Lower Upper
95 100
174 73.4 0.0 141.8
176 70.0 0.0 132.6

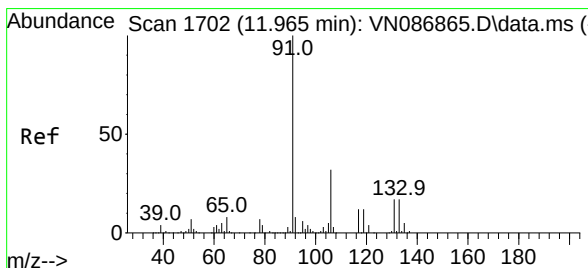
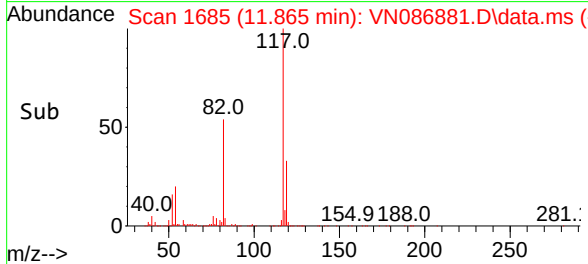
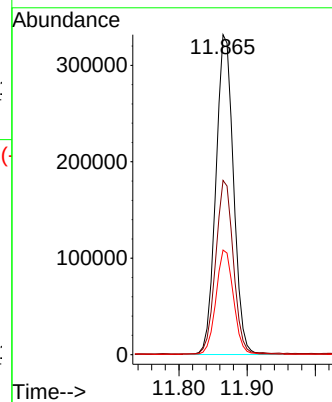
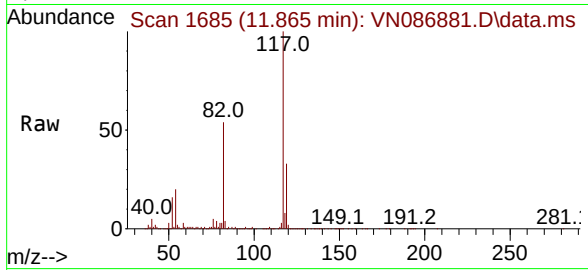




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

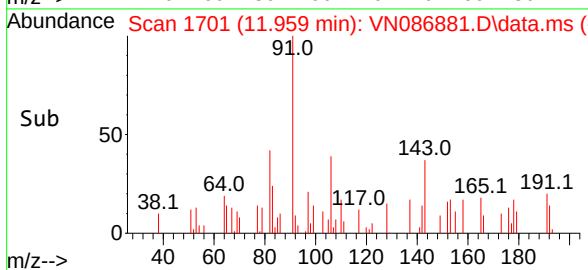
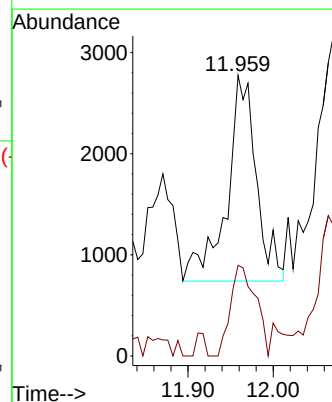
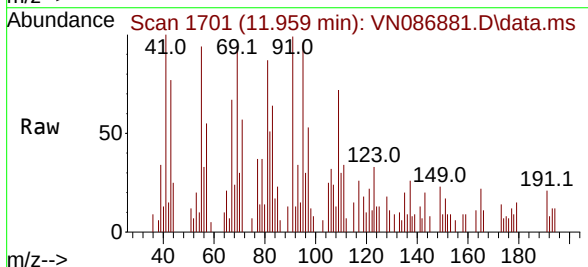
Instrument :
MSVOA_N
ClientSampleId :
TP-1

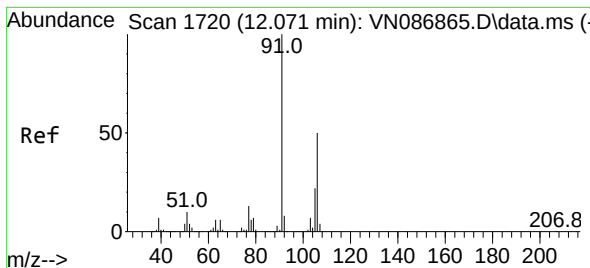
Tgt Ion:117 Resp: 597277
Ion Ratio Lower Upper
117 100
82 54.2 44.6 67.0
119 32.6 25.5 38.3



#67
Ethyl Benzene
Concen: 0.216 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

Tgt Ion: 91 Resp: 4898
Ion Ratio Lower Upper
91 100
106 44.1 25.4 38.2#

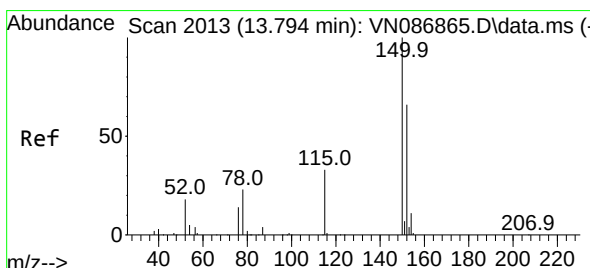
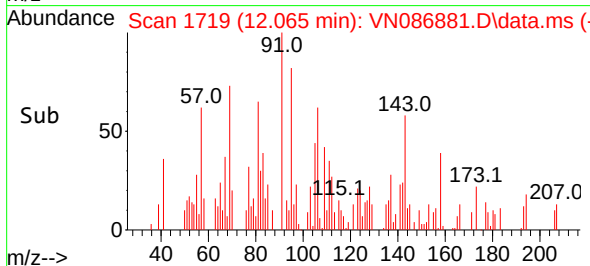
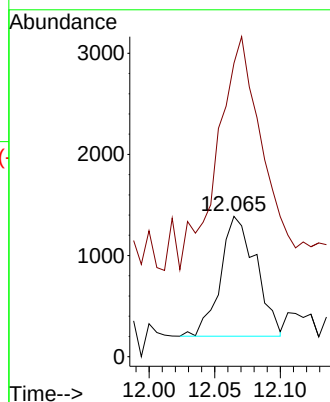
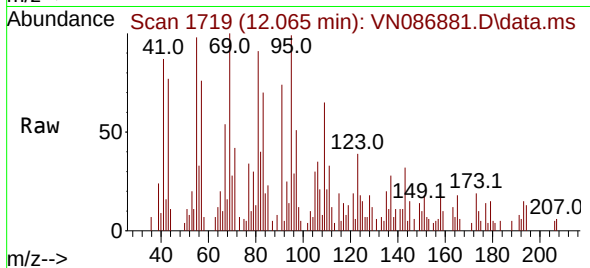




#68
m/p-Xylenes
Concen: 0.257 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

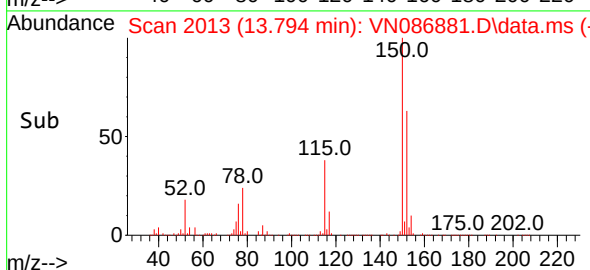
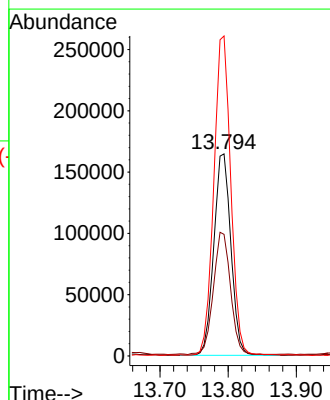
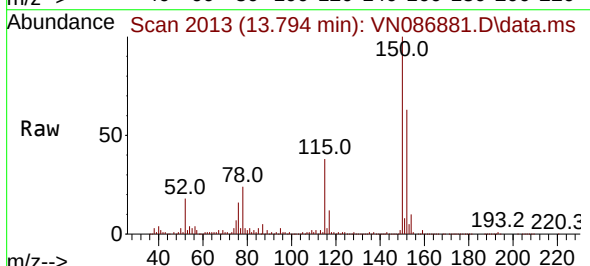
Instrument :
MSVOA_N
ClientSampleId :
TP-1

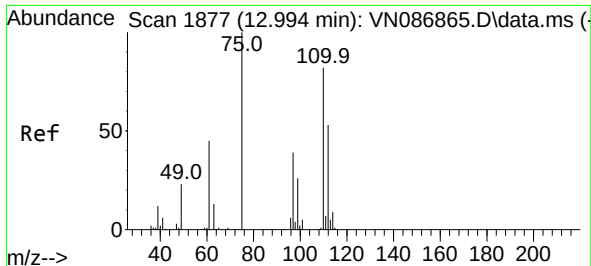
Tgt Ion:106 Resp: 2236
Ion Ratio Lower Upper
106 100
91 253.6 159.4 239.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

Tgt Ion:152 Resp: 286406
Ion Ratio Lower Upper
152 100
115 60.9 30.1 90.5
150 157.3 0.0 345.0

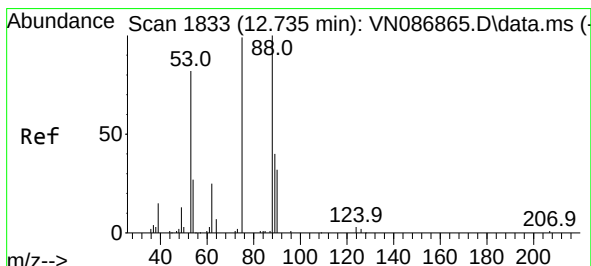
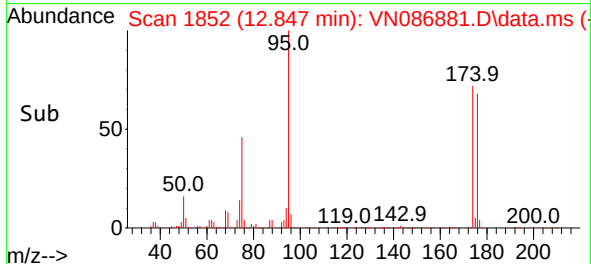
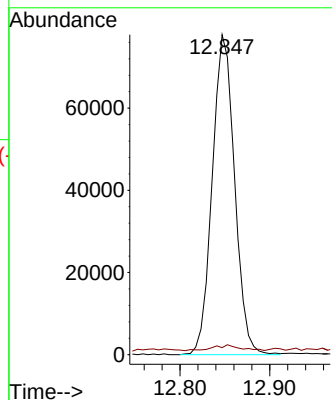
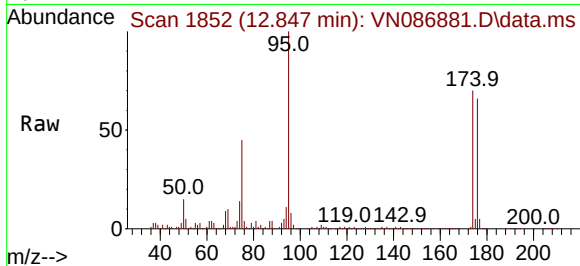




#76
1,2,3-Trichloropropane
Concen: 19.789 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

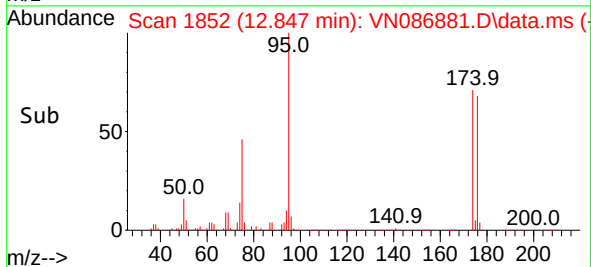
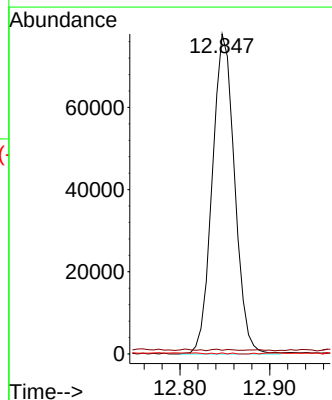
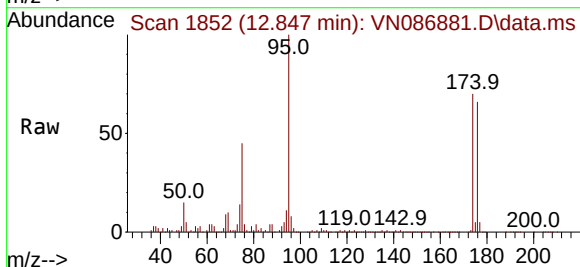
Instrument :
MSVOA_N
ClientSampleId :
TP-1

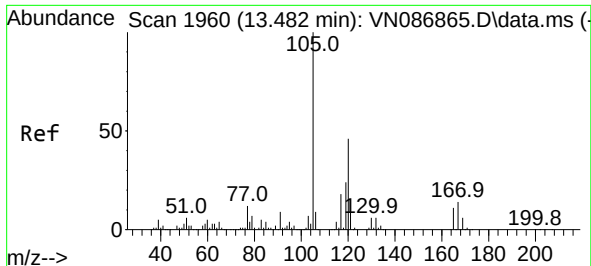
Tgt Ion: 75 Resp: 134726
Ion Ratio Lower Upper
75 100
77 2.2 79.3 237.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 45.554 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

Tgt Ion: 75 Resp: 134726
Ion Ratio Lower Upper
75 100
53 0.4 66.6 99.8#
89 0.1 36.7 55.1#

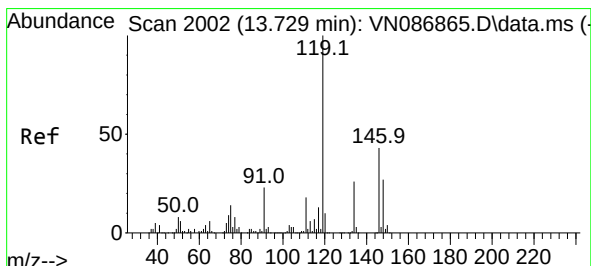
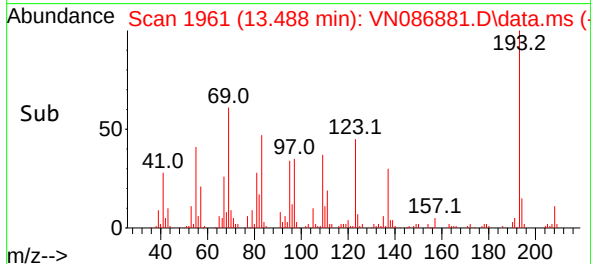
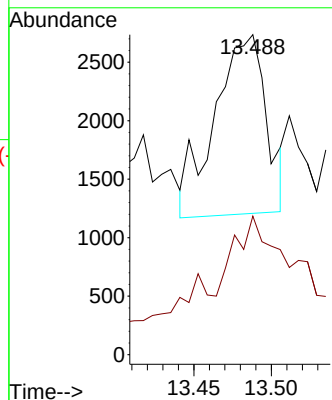
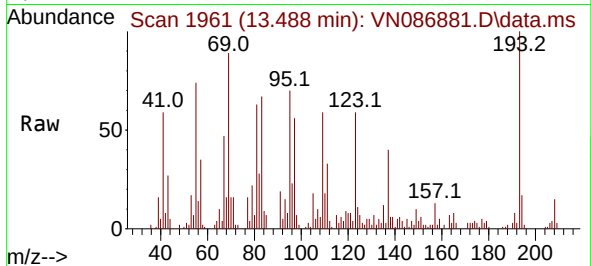




#84
1,2,4-Trimethylbenzene
Concen: 0.206 ug/l
RT: 13.488 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

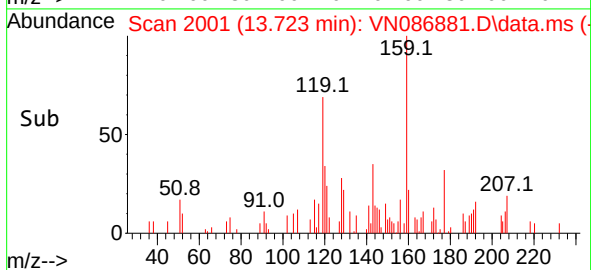
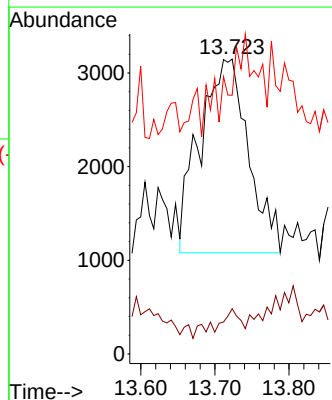
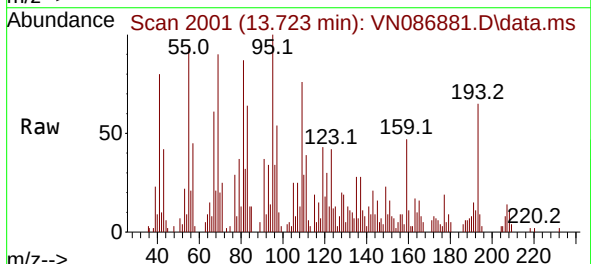
Instrument :
MSVOA_N
ClientSampleId :
TP-1

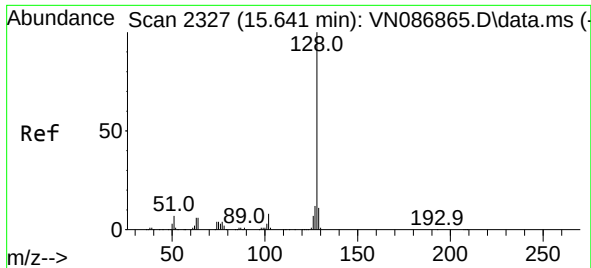
Tgt Ion:105 Resp: 3562
Ion Ratio Lower Upper
105 100
120 58.5 23.2 69.6



#86
p-Isopropyltoluene
Concen: 0.497 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.006 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

Tgt Ion:119 Resp: 9411
Ion Ratio Lower Upper
119 100
134 3.9 13.5 40.4#
91 14.2 11.5 34.4





#95
Naphthalene
Concen: 1.237 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN086881.D
Acq: 06 Jun 2025 20:59

Instrument :
MSVOA_N
ClientSampleId :
TP-1

Tgt Ion:128 Resp: 26597
Ion Ratio Lower Upper
128 100
127 14.2 10.2 15.2
129 21.8 8.8 13.2#

