

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086882.D
 Acq On : 06 Jun 2025 21:21
 Operator : JC\MD
 Sample : Q2242-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP09-MHJ

Quant Time: Jun 07 02:31:59 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)

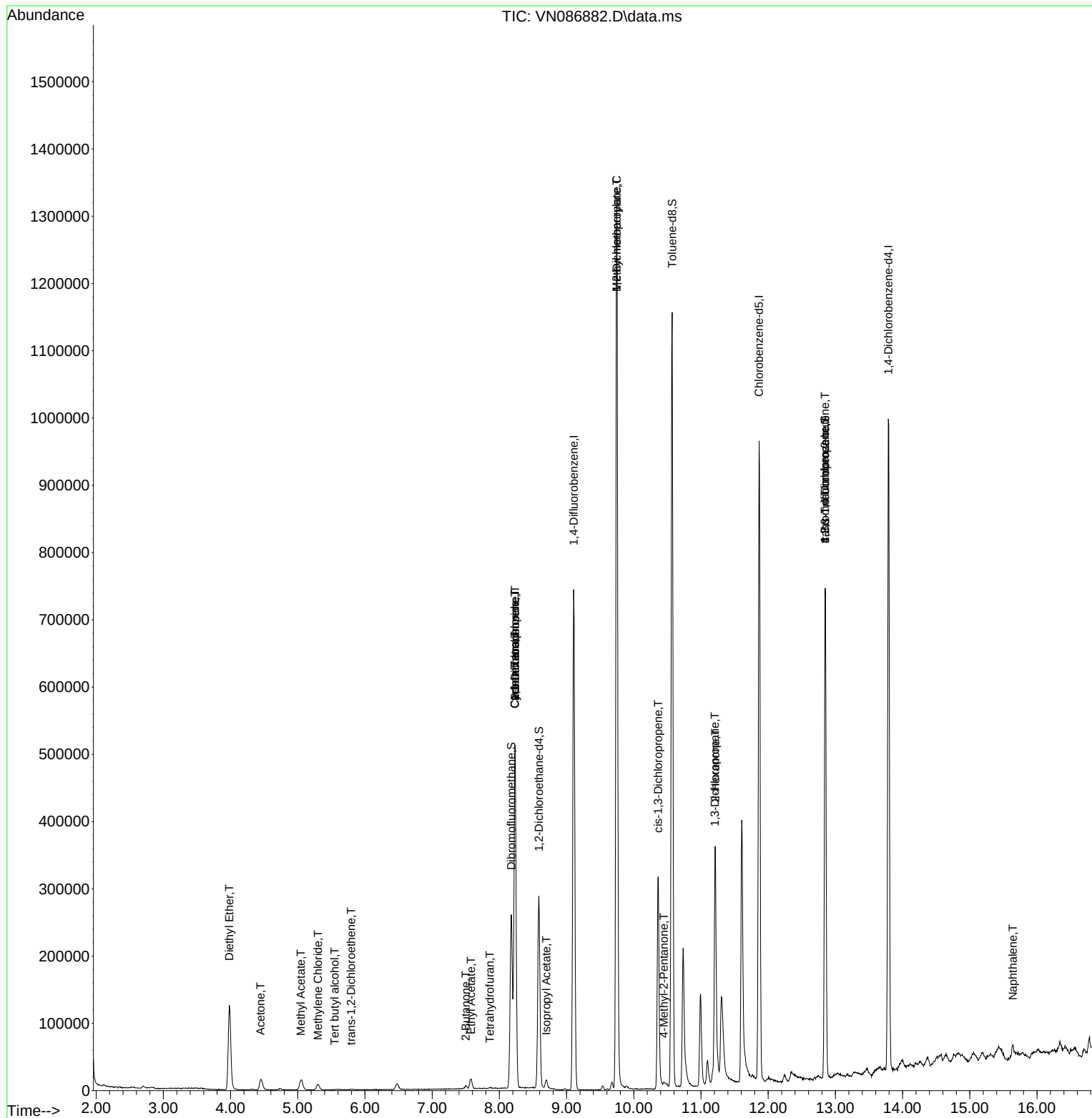
Internal Standards						
1) Pentafluorobenzene	8.235	168	408053	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	706454	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	606286	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	292449	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	231188	42.316	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	84.640%		
35) Dibromofluoromethane	8.177	113	198851	47.497	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.000%		
50) Toluene-d8	10.571	98	841909	50.798	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.600%		
62) 4-Bromofluorobenzene	12.847	95	295677	48.018	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	96.040%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.983	74	86916	28.173	ug/l	92
11) Tert butyl alcohol	5.547	59	534	0.360	ug/l #	73
16) Acetone	4.447	43	31681	10.935	ug/l	98
18) Methyl Acetate	5.047	43	33656	3.986	ug/l	96
20) Methylene Chloride	5.300	84	7390	1.362	ug/l	89
21) trans-1,2-Dichloroethene	5.794	96	1028	0.203	ug/l #	24
25) 2-Butanone	7.500	43	7214	1.532	ug/l #	84
29) Tetrahydrofuran	7.859	42	1032	0.336	ug/l #	55
31) Cyclohexane	8.230	56	7227	0.816	ug/l #	1
36) 1,1-Dichloropropene	8.235	75	29618	4.748	ug/l #	48
37) Ethyl Acetate	7.577	43	23446	2.952	ug/l	97
38) Carbon Tetrachloride	8.230	117	39066	6.378	ug/l #	17
43) Isopropyl Acetate	8.700	43	13916	1.092	ug/l	94
45) 1,2-Dichloropropane	9.747	63	1970	0.397	ug/l #	43
48) Methyl methacrylate	9.747	41	108639	18.518	ug/l #	35
51) 4-Methyl-2-Pentanone	10.447	43	7191	0.937	ug/l #	83
54) cis-1,3-Dichloropropene	10.365	75	76972	9.485	ug/l #	53
57) 1,3-Dichloropropane	11.206	76	4769	0.573	ug/l #	43
59) 2-Hexanone	11.212	43	67854	13.728	ug/l #	45
76) 1,2,3-Trichloropropane	12.847	75	135011	19.422	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	135011	44.707	ug/l #	16
95) Naphthalene	15.641	128	18623	0.848	ug/l #	92

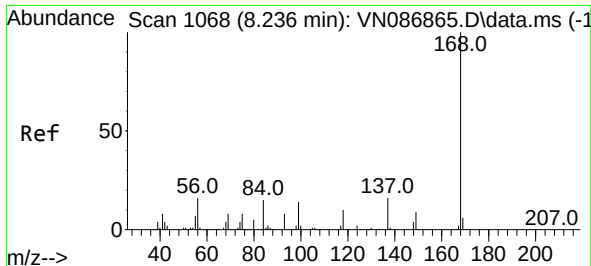
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

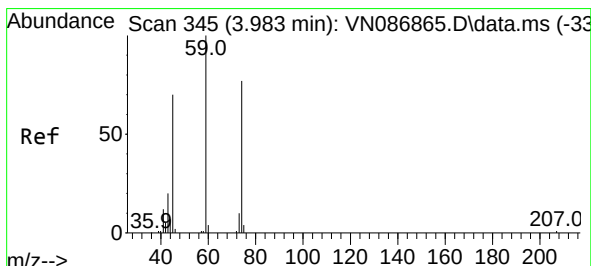
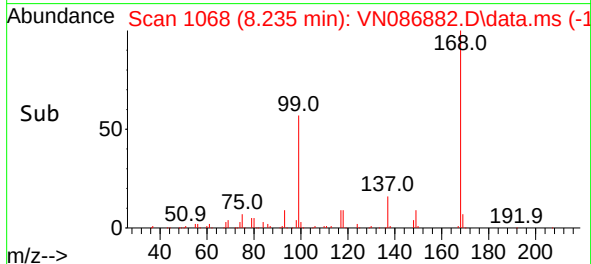
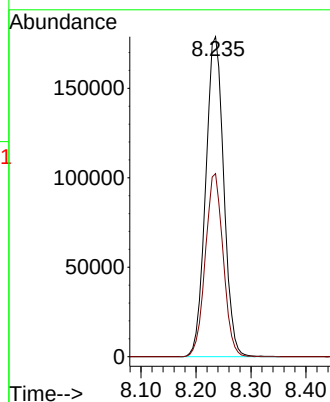
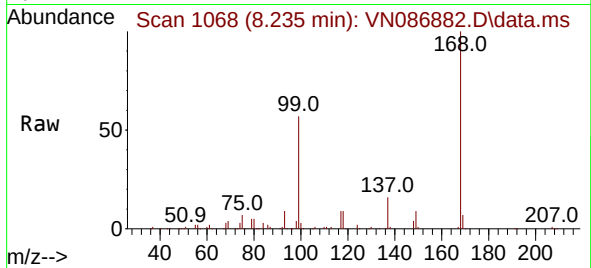




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21

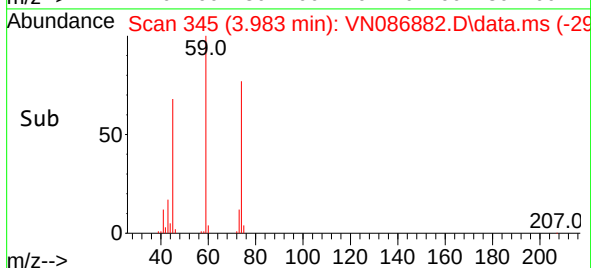
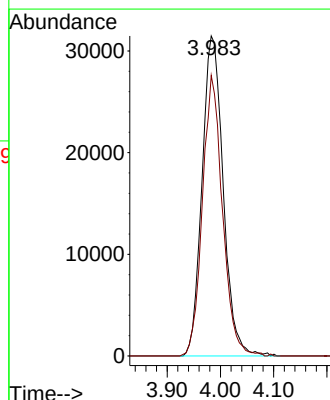
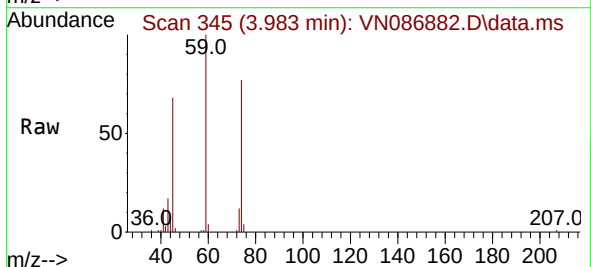
Instrument :
MSVOA_N
ClientSampleId :
TP09-MHJ

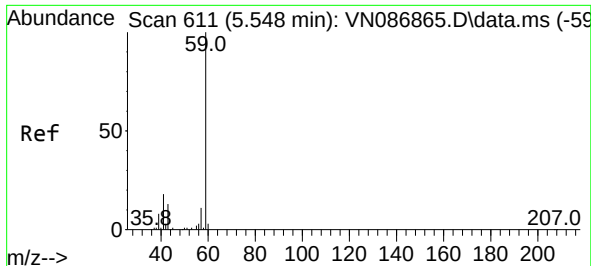
Tgt Ion:168 Resp: 408053
Ion Ratio Lower Upper
168 100
99 57.2 49.1 73.7



#8
Diethyl Ether
Concen: 28.173 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21

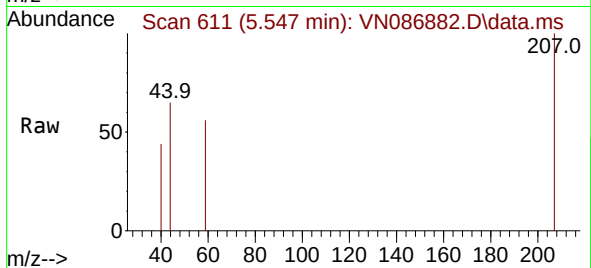
Tgt Ion: 74 Resp: 86916
Ion Ratio Lower Upper
74 100
45 83.1 45.5 136.5



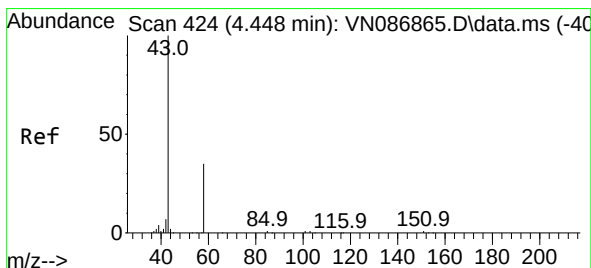
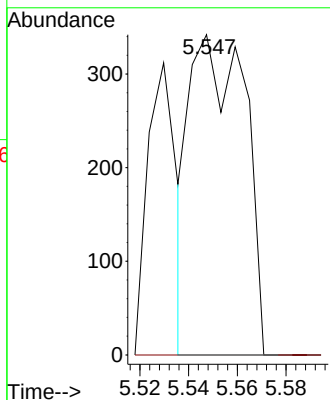
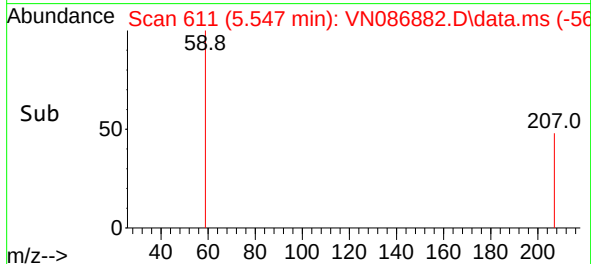


#11
Tert butyl alcohol
Concen: 0.360 ug/l
RT: 5.547 min Scan# 611
Delta R.T. -0.000 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21

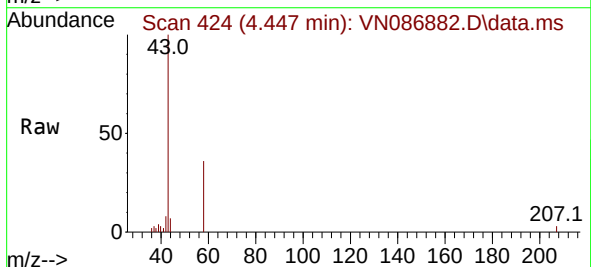
Instrument :
MSVOA_N
ClientSampleId :
TP09-MHJ



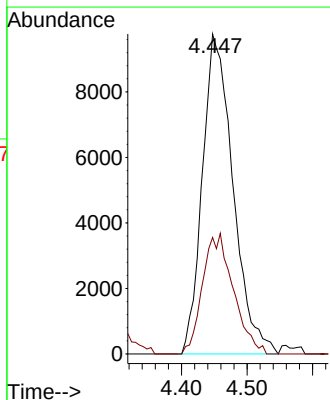
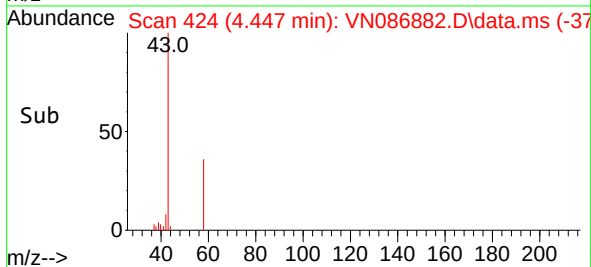
Tgt Ion: 59 Resp: 534
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#

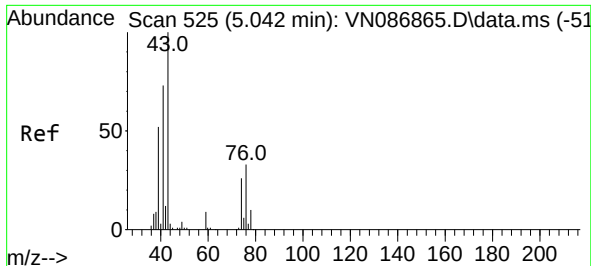


#16
Acetone
Concen: 10.935 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21



Tgt Ion: 43 Resp: 31681
Ion Ratio Lower Upper
43 100
58 36.4 28.0 42.0

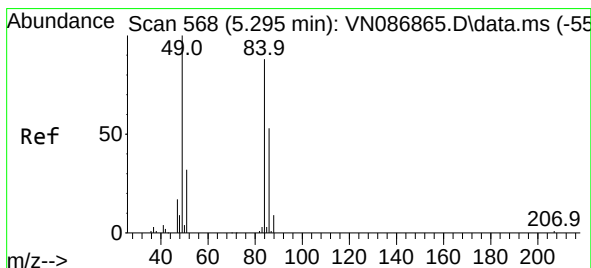
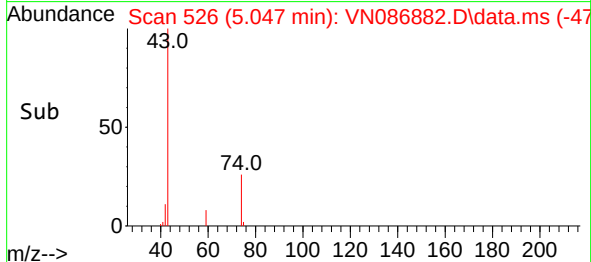
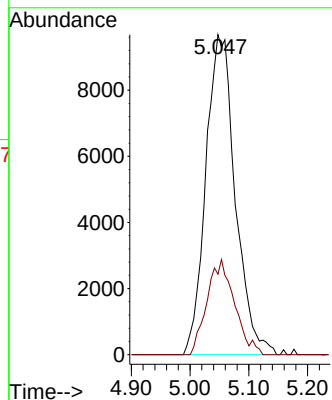
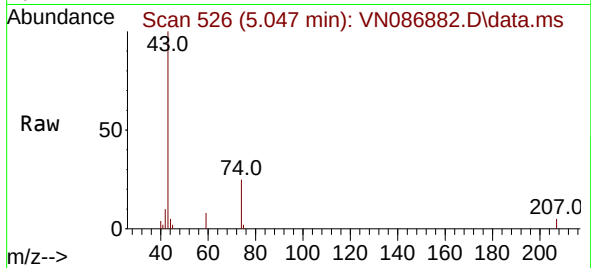




#18
Methyl Acetate
Concen: 3.986 ug/l
RT: 5.047 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21

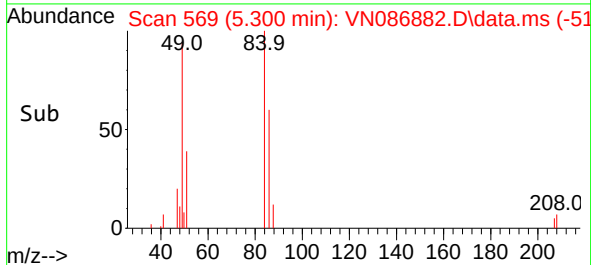
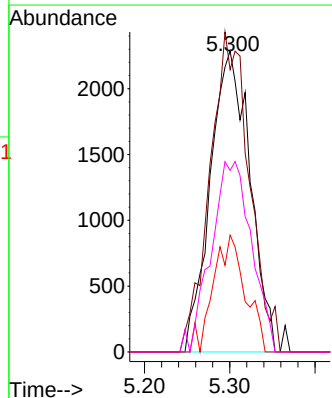
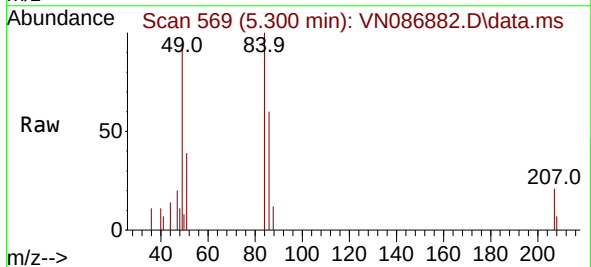
Instrument :
MSVOA_N
ClientSampleId :
TP09-MHJ

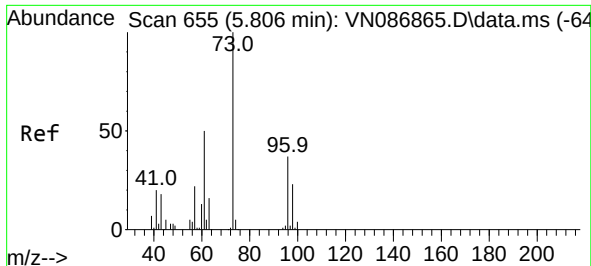
Tgt Ion: 43 Resp: 33656
Ion Ratio Lower Upper
43 100
74 27.8 20.7 31.1



#20
Methylene Chloride
Concen: 1.362 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21

Tgt Ion: 84 Resp: 7390
Ion Ratio Lower Upper
84 100
49 93.8 90.5 135.7
51 38.8 28.5 42.7
86 60.4 48.1 72.1

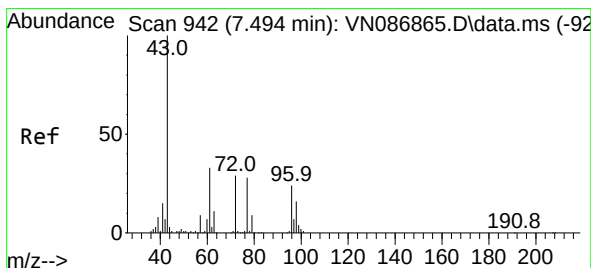
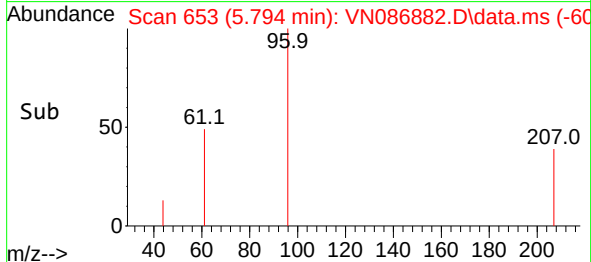
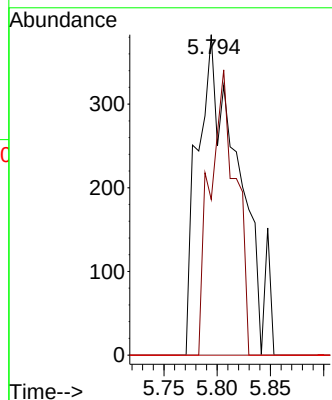
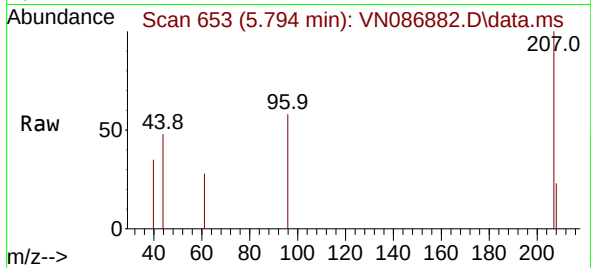




#21
trans-1,2-Dichloroethene
Concen: 0.203 ug/l
RT: 5.794 min Scan# 610
Delta R.T. -0.012 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21

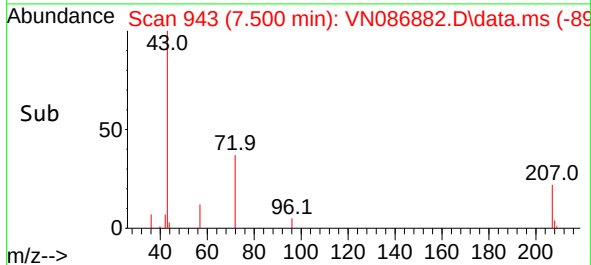
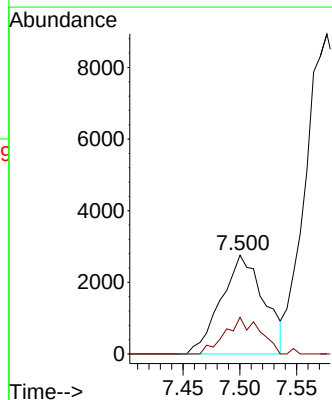
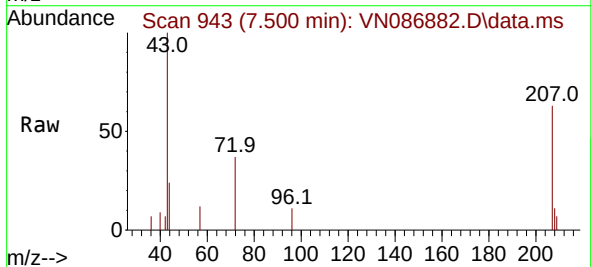
Instrument :
MSVOA_N
ClientSampleId :
TP09-MHJ

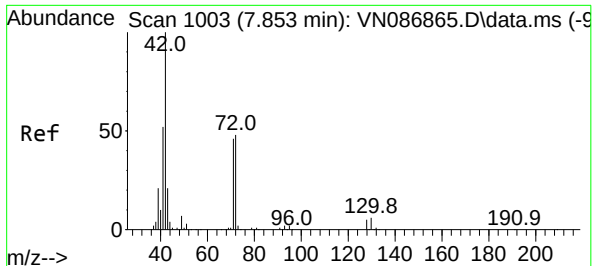
Tgt Ion: 96 Resp: 1028
Ion Ratio Lower Upper
96 100
61 48.6 109.2 163.8#
98 0.0 49.8 74.8#



#25
2-Butanone
Concen: 1.532 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21

Tgt Ion: 43 Resp: 7214
Ion Ratio Lower Upper
43 100
72 37.1 23.0 34.6#





#29

Tetrahydrofuran

Concen: 0.336 ug/l

RT: 7.859 min Scan# 1032

Delta R.T. 0.006 min

Lab File: VN086882.D

Acq: 06 Jun 2025 21:21

Instrument :

MSVOA_N

ClientSampleId :

TP09-MHJ

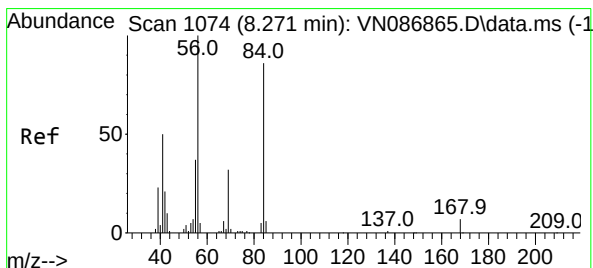
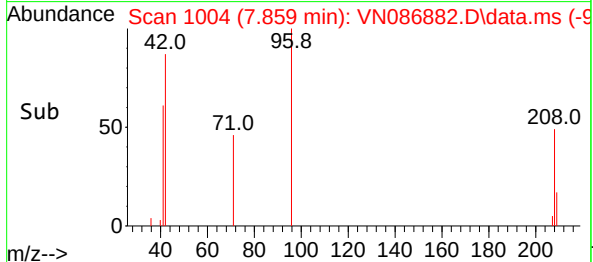
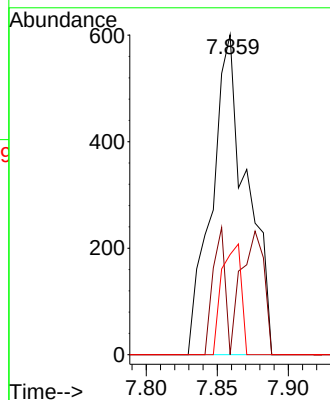
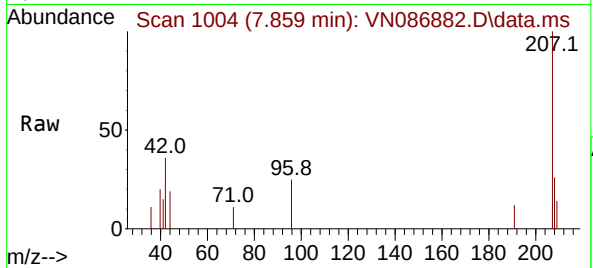
Tgt Ion: 42 Resp: 1032

Ion Ratio Lower Upper

42 100

72 13.8 37.8 56.6#

71 19.1 35.6 53.4#



#31

Cyclohexane

Concen: 0.816 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.041 min

Lab File: VN086882.D

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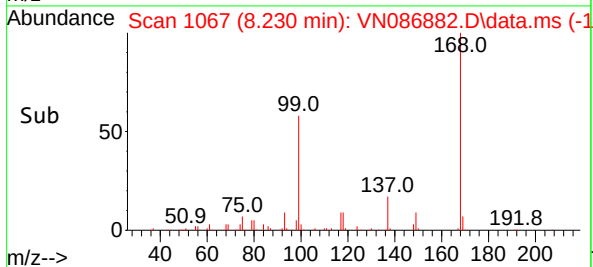
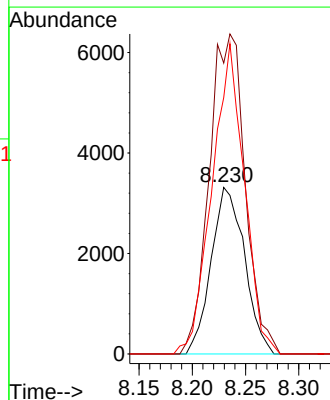
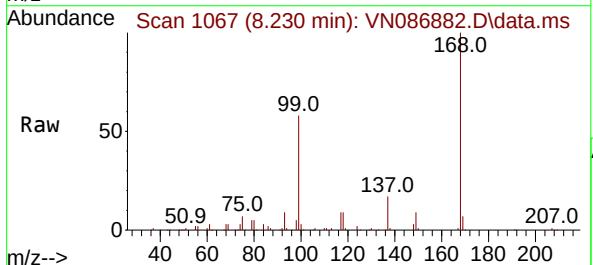
Tgt Ion: 56 Resp: 7227

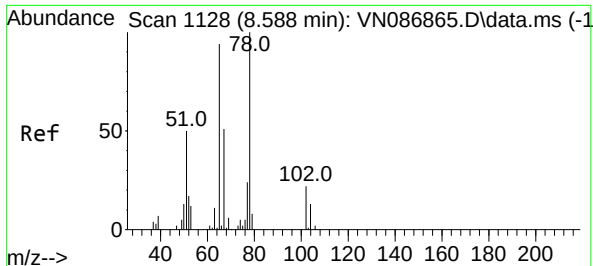
Ion Ratio Lower Upper

56 100

69 174.6 25.4 38.0#

84 153.8 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 42.316 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086882.D

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MSVOA_N

ClientSampleId :

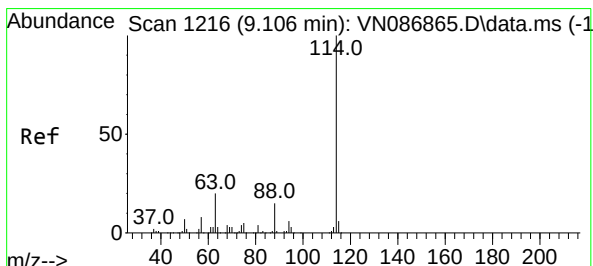
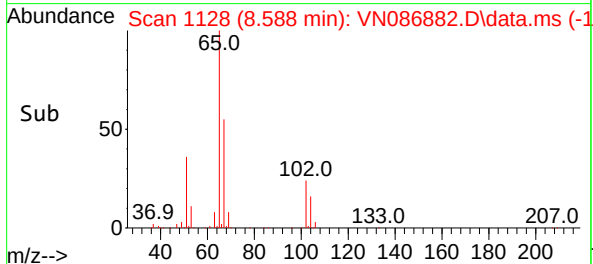
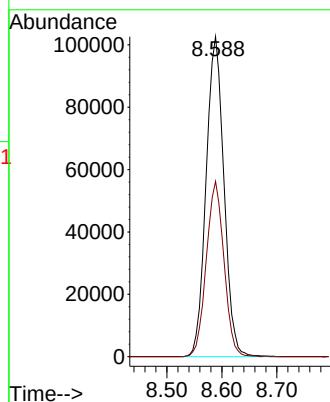
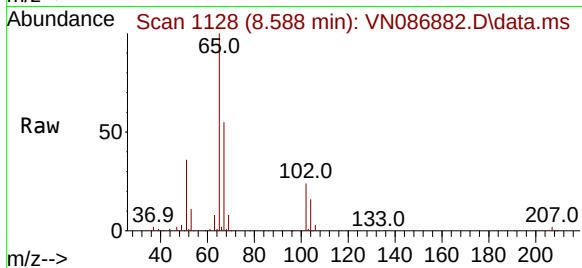
TP09-MHJ

Tgt Ion: 65 Resp: 231188

Ion Ratio Lower Upper

65 100

67 54.3 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086882.D

Acq: 06 Jun 2025 21:21

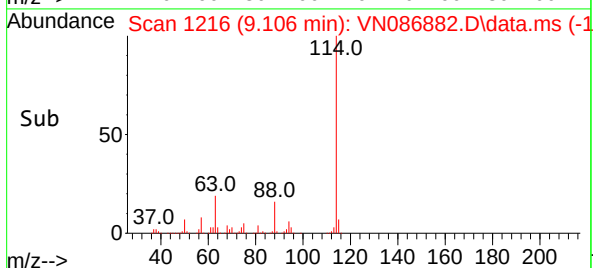
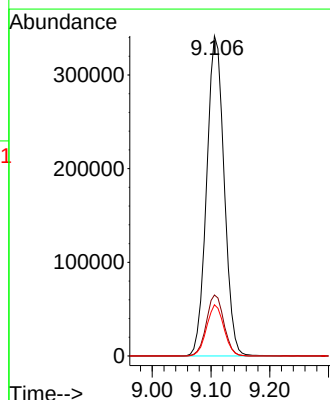
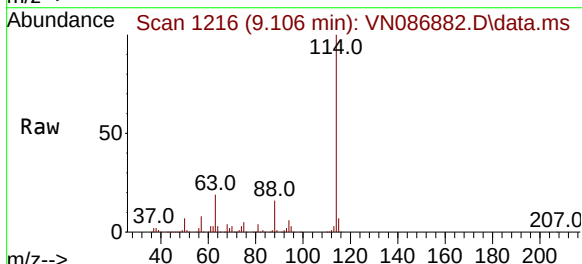
Tgt Ion: 114 Resp: 706454

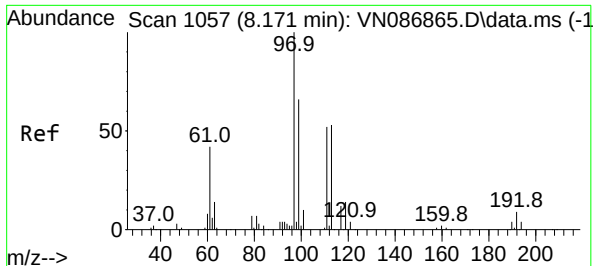
Ion Ratio Lower Upper

114 100

63 19.0 0.0 39.6

88 16.0 0.0 30.2

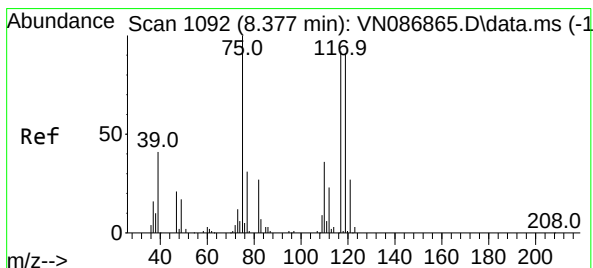
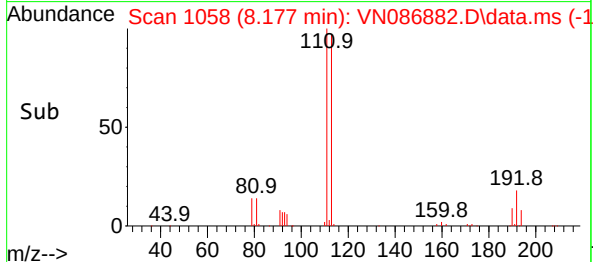
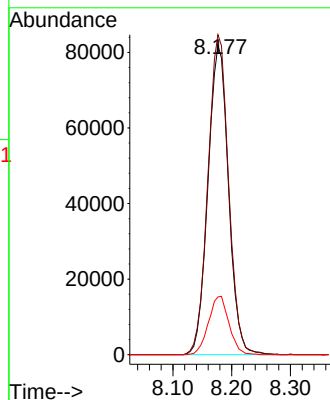
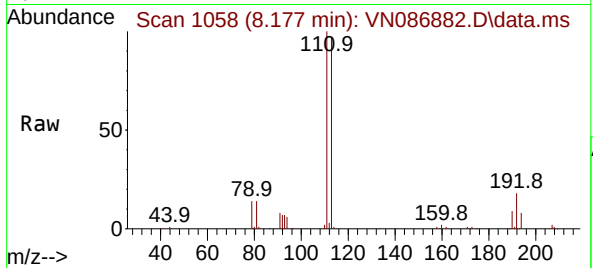




#35
Dibromofluoromethane
Concen: 47.497 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21

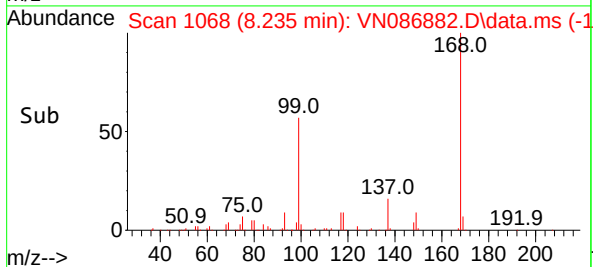
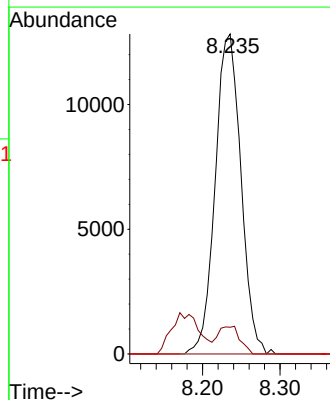
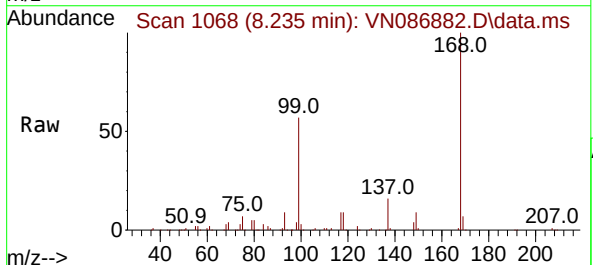
Instrument :
MSVOA_N
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TP09-MHJ

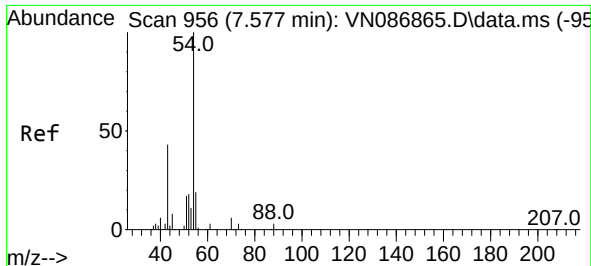
Tgt Ion:113 Resp: 198851
Ion Ratio Lower Upper
113 100
111 103.9 84.2 126.2
192 18.8 14.2 21.4



#36
1,1-Dichloropropene
Concen: 4.748 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21

Tgt Ion: 75 Resp: 29618
Ion Ratio Lower Upper
75 100
110 7.4 17.6 52.9#
77 0.0 25.3 37.9#

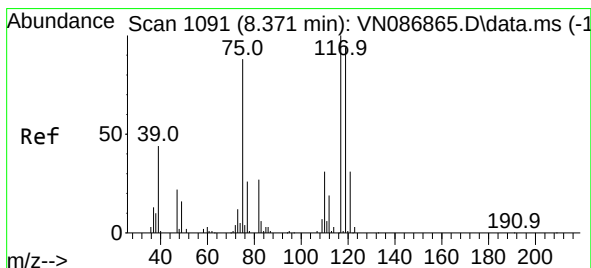
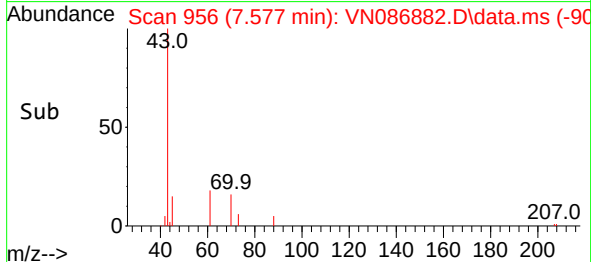
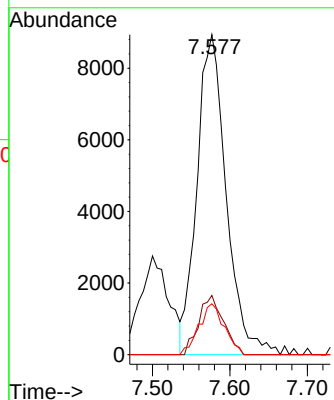
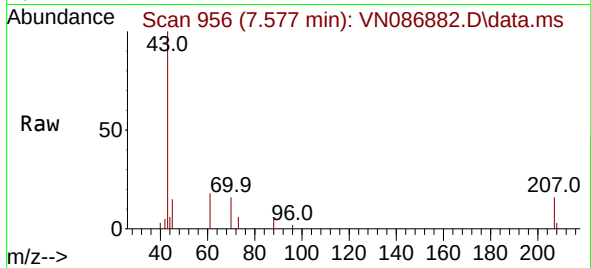




#37
Ethyl Acetate
Concen: 2.952 ug/l
RT: 7.577 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21

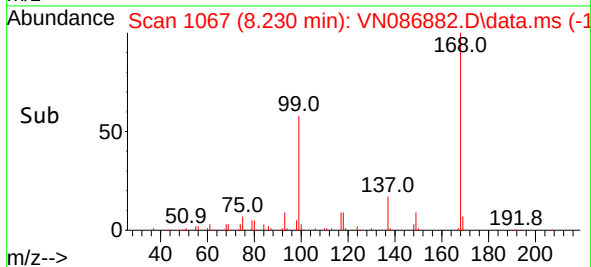
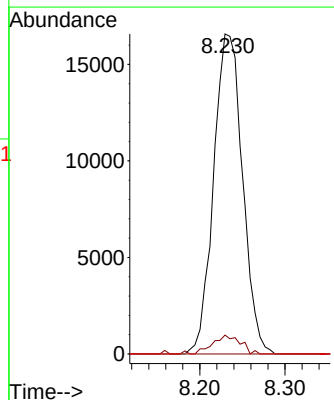
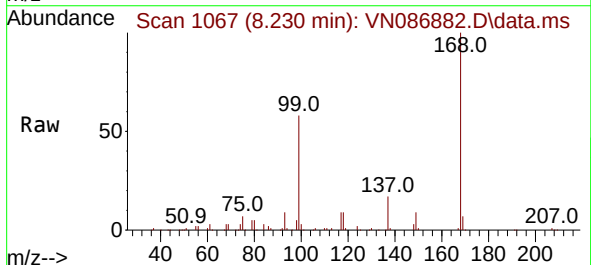
Instrument :
MSVOA_N
ClientSampleId :
TP09-MHJ

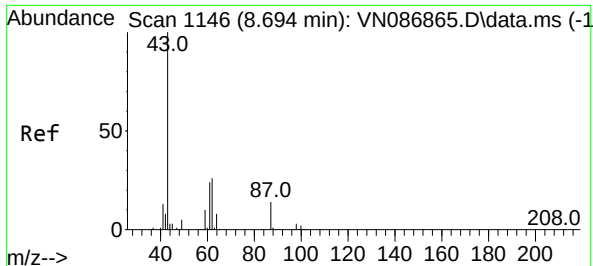
Tgt Ion:	43	Resp:	23446
Ion	Ratio	Lower	Upper
43	100		
61	15.7	12.1	18.1
70	13.8	9.8	14.6



#38
Carbon Tetrachloride
Concen: 6.378 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21

Tgt Ion:	117	Resp:	39066
Ion	Ratio	Lower	Upper
117	100		
119	5.9	75.0	112.6#
121	0.0	24.9	37.3#

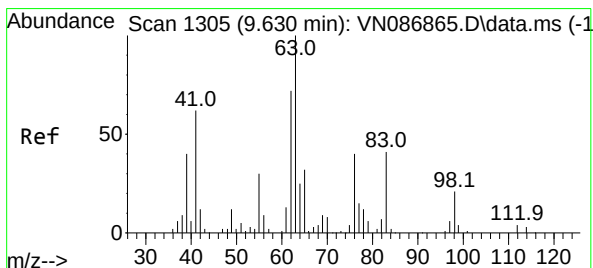
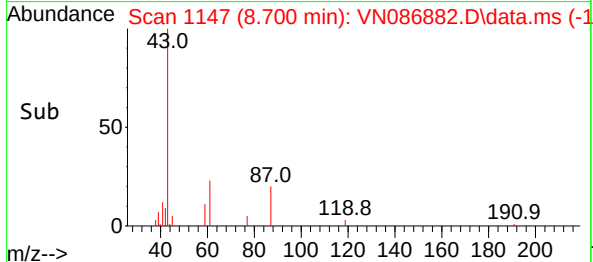
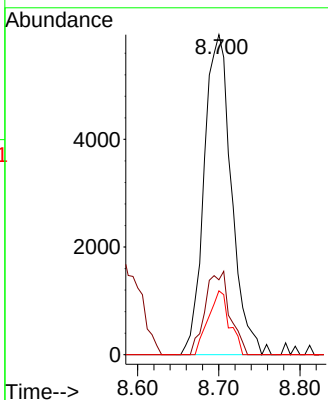
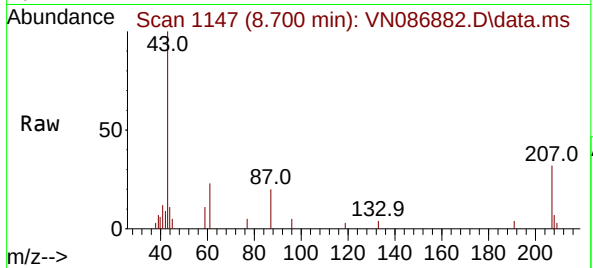




#43
Isopropyl Acetate
Concen: 1.092 ug/l
RT: 8.700 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21

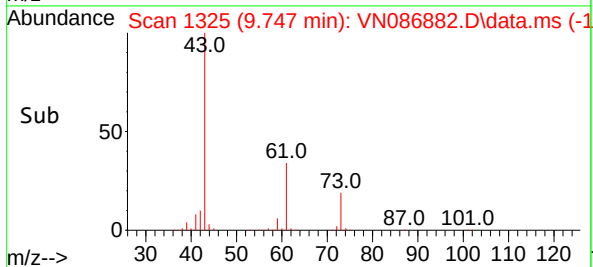
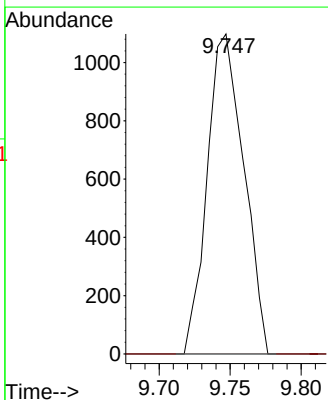
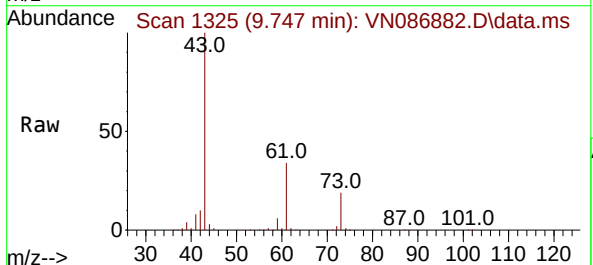
Instrument :
MSVOA_N
ClientSampleId :
TP09-MHJ

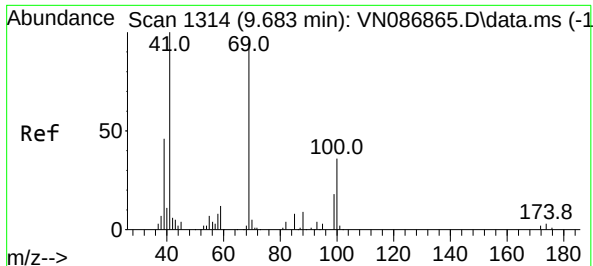
Tgt Ion: 43	Resp: 13916
Ion Ratio	Lower Upper
43	100
61	23.5 22.1 33.1
87	15.5 11.8 17.6



#45
1,2-Dichloropropane
Concen: 0.397 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.117 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21

Tgt Ion: 63	Resp: 1970
Ion Ratio	Lower Upper
63	100
65	0.0 25.5 38.3#

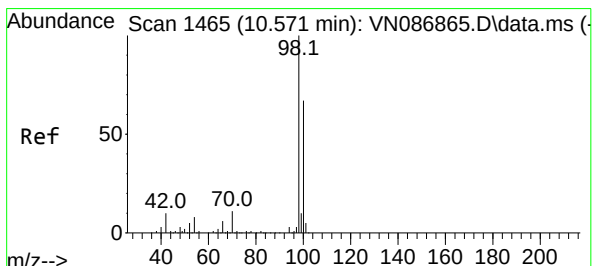
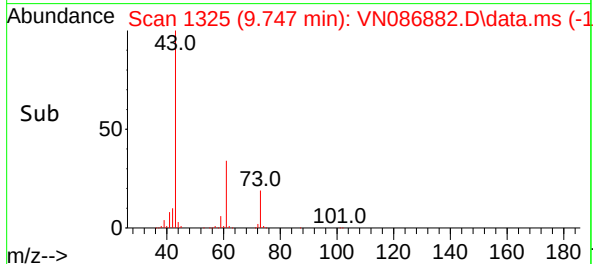
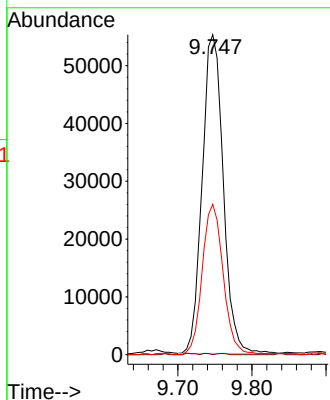
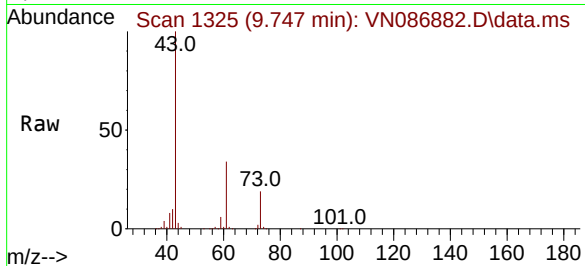




#48
Methyl methacrylate
Concen: 18.518 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21

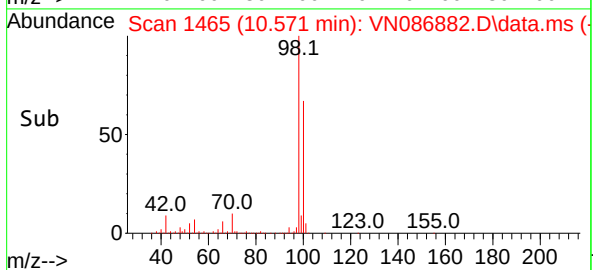
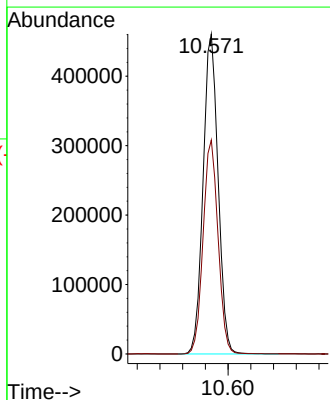
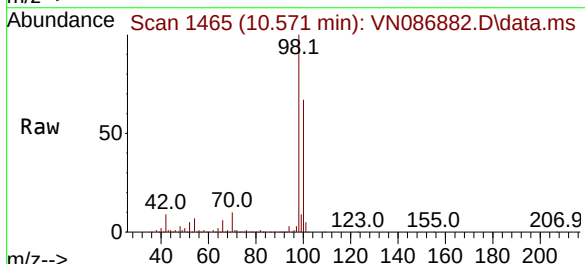
Instrument :
MSVOA_N
ClientSampleId :
TP09-MHJ

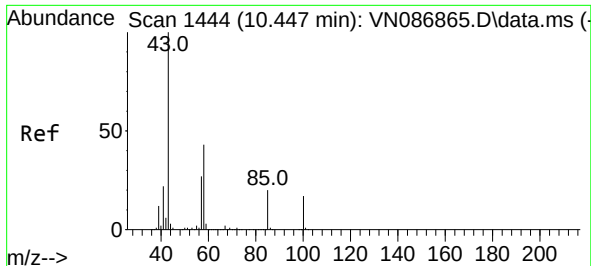
Tgt Ion: 41 Resp: 108639
Ion Ratio Lower Upper
41 100
69 0.1 74.6 112.0#
39 47.1 40.2 60.4



#50
Toluene-d8
Concen: 50.798 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21

Tgt Ion: 98 Resp: 841909
Ion Ratio Lower Upper
98 100
100 66.6 53.4 80.0

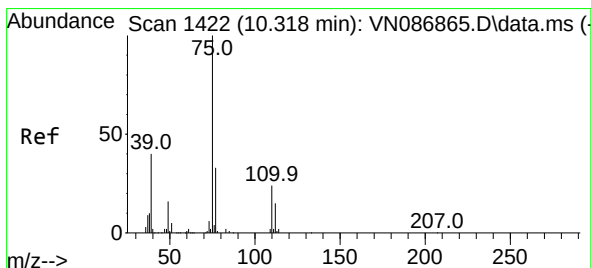
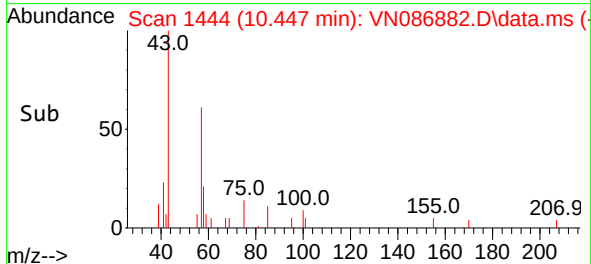
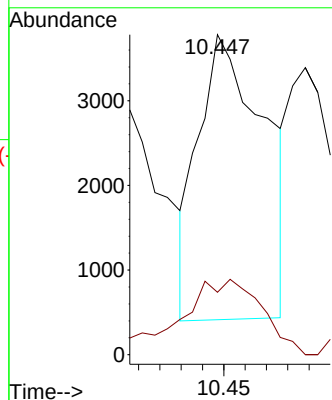
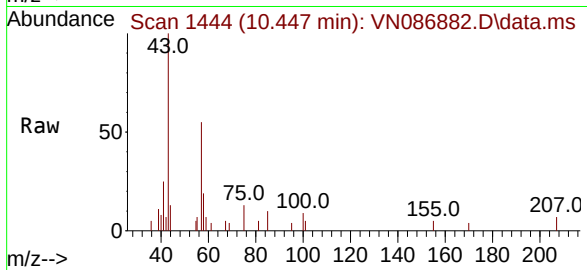




#51
4-Methyl-2-Pentanone
Concen: 0.937 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21

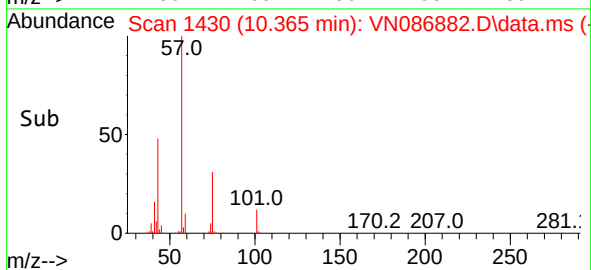
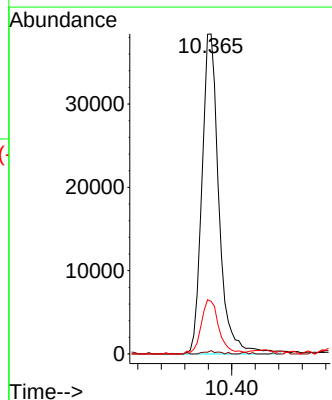
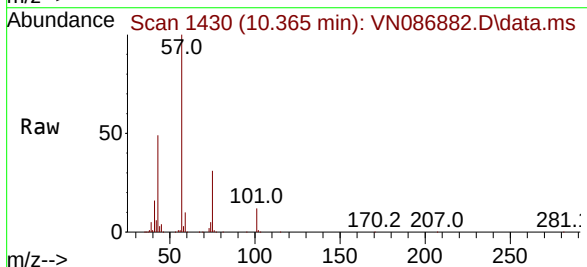
Instrument :
MSVOA_N
ClientSampleId :
TP09-MHJ

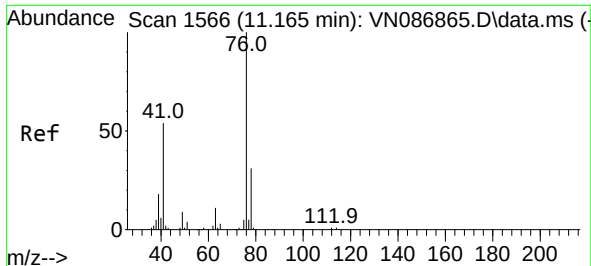
Tgt Ion: 43 Resp: 7191
Ion Ratio Lower Upper
43 100
58 32.0 34.2 51.4#



#54
cis-1,3-Dichloropropene
Concen: 9.485 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21

Tgt Ion: 75 Resp: 76972
Ion Ratio Lower Upper
75 100
77 1.1 26.2 39.4#
39 16.5 32.3 48.5#





#57

1,3-Dichloropropane

Concen: 0.573 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN086882.D

Acq: 06 Jun 2025 21:21

Instrument :

MSVOA_N

ClientSampleId :

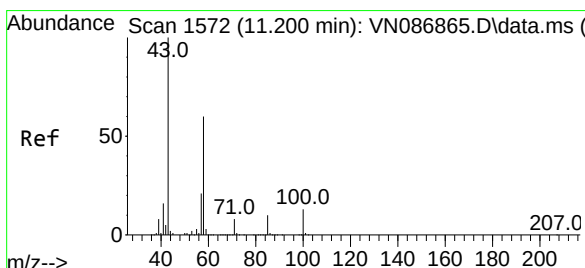
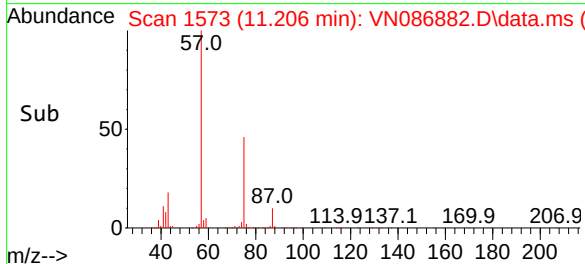
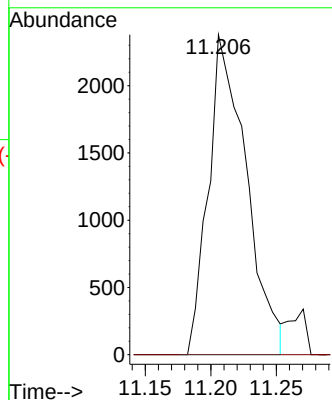
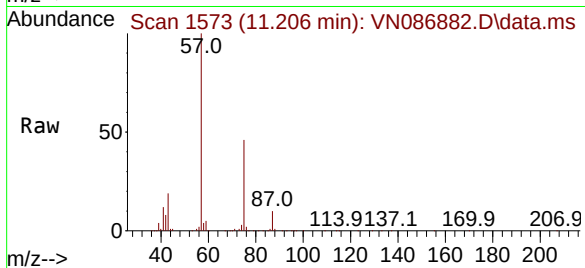
TP09-MHJ

Tgt Ion: 76 Resp: 4769

Ion Ratio Lower Upper

76 100

78 0.0 25.3 37.9#



#59

2-Hexanone

Concen: 13.728 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.012 min

Lab File: VN086882.D

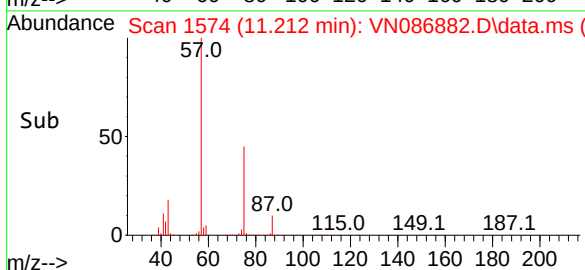
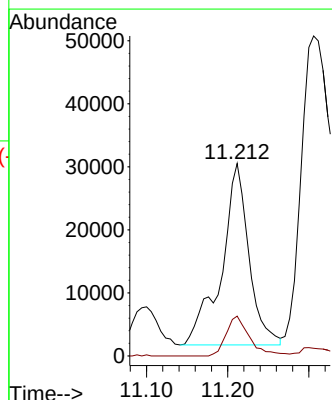
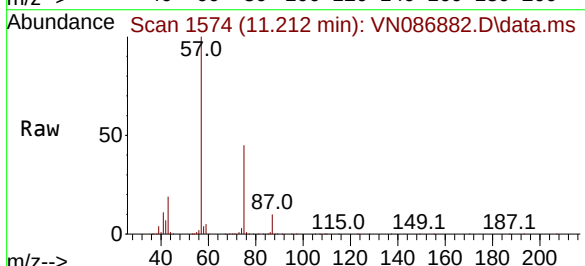
Acq: 06 Jun 2025 21:21

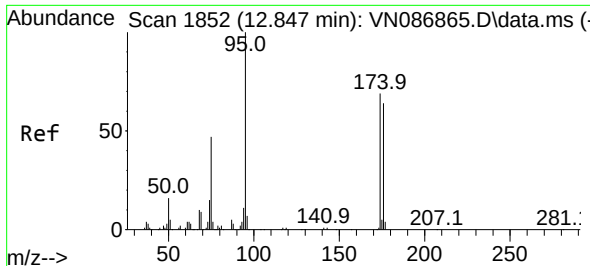
Tgt Ion: 43 Resp: 67854

Ion Ratio Lower Upper

43 100

58 18.8 30.4 91.3#

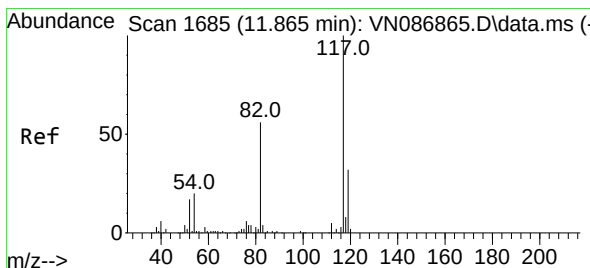
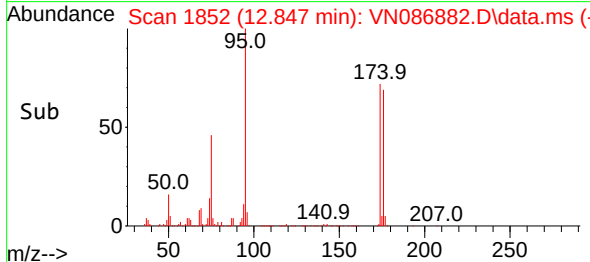
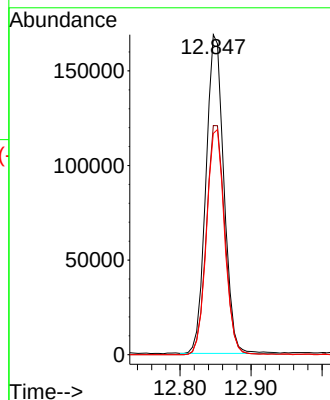
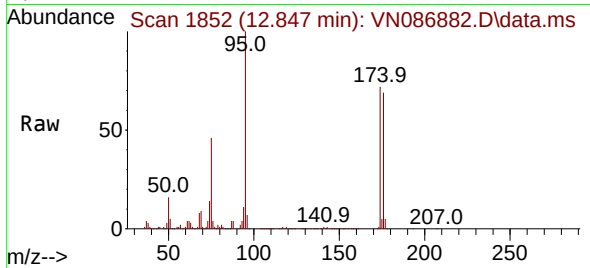




#62
4-Bromofluorobenzene
Concen: 48.018 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21

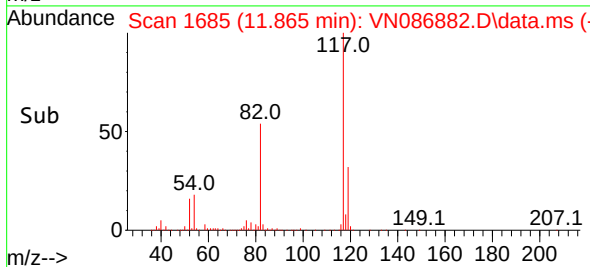
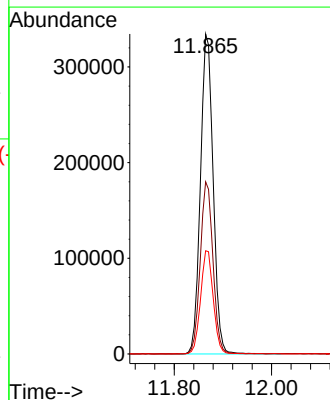
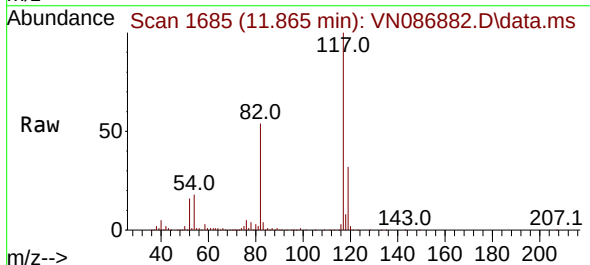
Instrument :
MSVOA_N
ClientSampleId :
TP09-MHJ

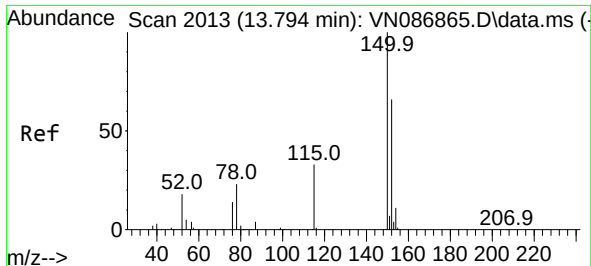
Tgt Ion: 95 Resp: 295677
Ion Ratio Lower Upper
95 100
174 73.7 0.0 141.8
176 71.3 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21

Tgt Ion: 117 Resp: 606286
Ion Ratio Lower Upper
117 100
82 53.7 44.6 67.0
119 32.2 25.5 38.3

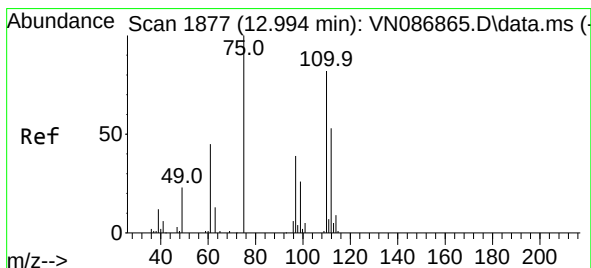
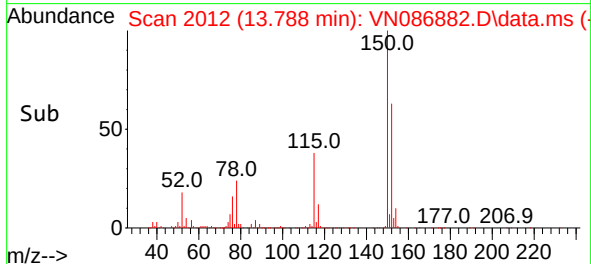
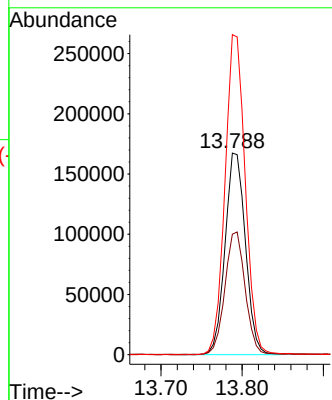
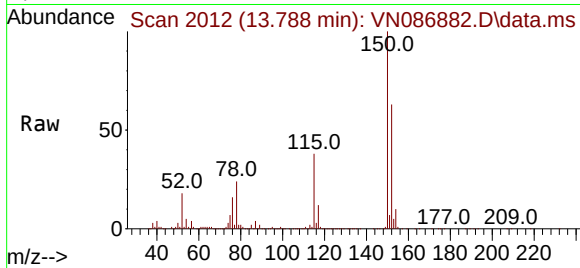




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.006 min
 Lab File: VN086882.D
 Acq: 06 Jun 2025 21:21

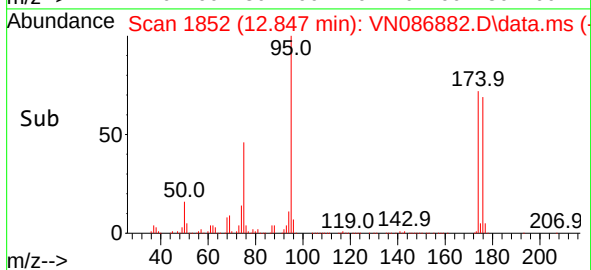
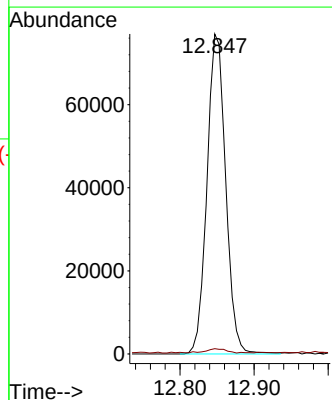
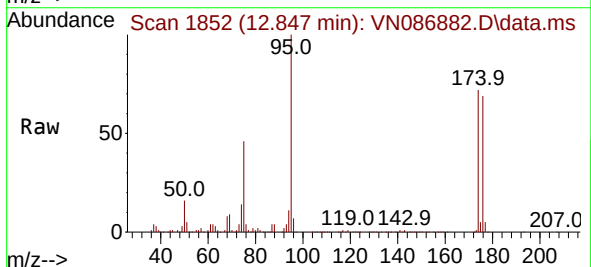
Instrument :
 MSVOA_N
 ClientSampleId :
 TP09-MHJ

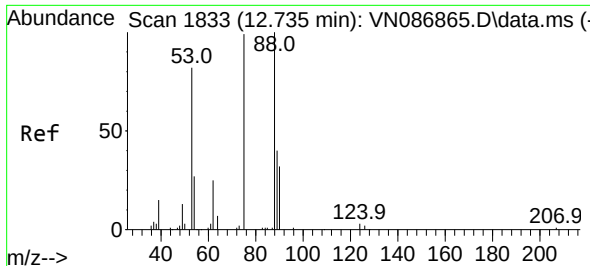
Tgt Ion:152 Resp: 292449
 Ion Ratio Lower Upper
 152 100
 115 60.2 30.1 90.5
 150 157.7 0.0 345.0



#76
 1,2,3-Trichloropropane
 Concen: 19.422 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN086882.D
 Acq: 06 Jun 2025 21:21

Tgt Ion: 75 Resp: 135011
 Ion Ratio Lower Upper
 75 100
 77 1.6 79.3 237.9#

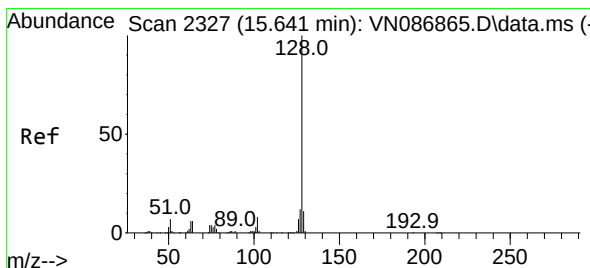
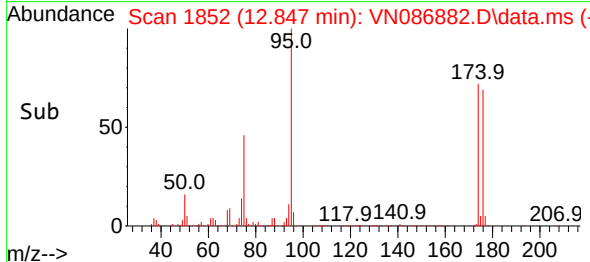
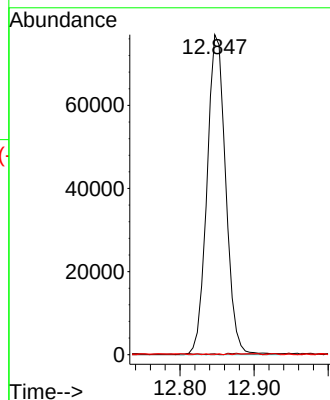
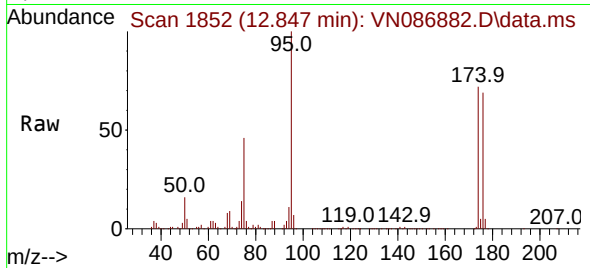




#81
trans-1,4-Dichloro-2-butene
Concen: 44.707 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21

Instrument :
MSVOA_N
ClientSampleId :
TP09-MHJ

Tgt Ion: 75 Resp: 135011
Ion Ratio Lower Upper
75 100
53 0.1 66.6 99.8#
89 0.1 36.7 55.1#



#95
Naphthalene
Concen: 0.848 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN086882.D
Acq: 06 Jun 2025 21:21

Tgt Ion:128 Resp: 18623
Ion Ratio Lower Upper
128 100
127 16.0 10.2 15.2#
129 14.2 8.8 13.2#

