

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
 Data File : VN086896.D
 Acq On : 09 Jun 2025 11:55
 Operator : JC\MD
 Sample : Q2216-06RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 3851

Quant Time: Jun 09 13:28:19 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	8.230	168	363061	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	638255	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	551008	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	270034	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	207274	42.640	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	85.280%
35) Dibromofluoromethane	8.177	113	182031	48.125	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.260%
50) Toluene-d8	10.565	98	771729	51.539	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.080%
62) 4-Bromofluorobenzene	12.847	95	273497	49.162	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.320%

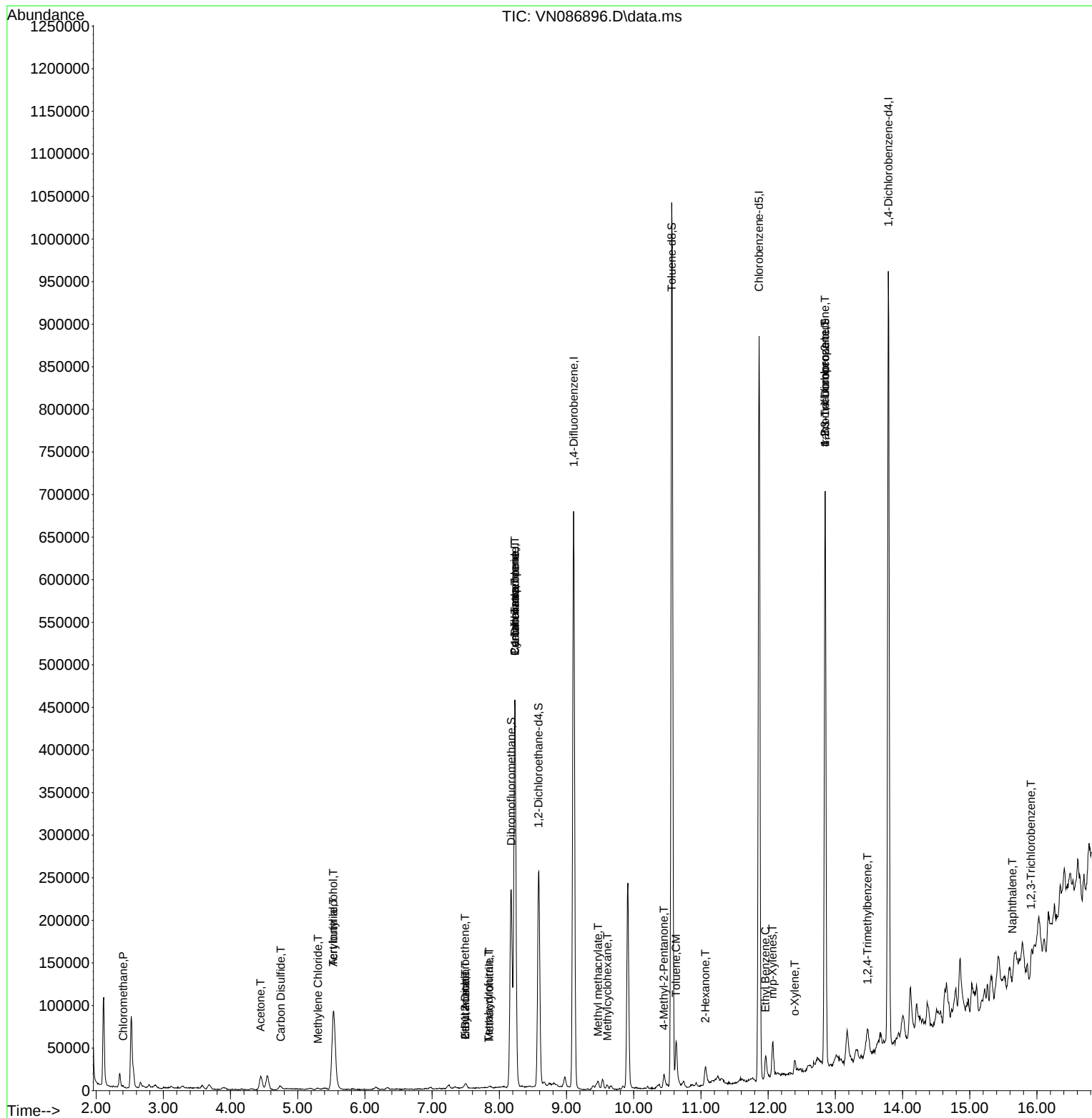
Target Compounds						Qvalue
3) Chloromethane	2.401	50	2395	0.512	ug/l	89
11) Tert butyl alcohol	5.530	59	207129	157.037	ug/l	100
15) Acrylonitrile	5.530	53	1228	0.398	ug/l #	6
16) Acetone	4.448	43	31756	12.319	ug/l	98
17) Carbon Disulfide	4.748	76	6203	0.555	ug/l	98
20) Methylene Chloride	5.300	84	1340	0.278	ug/l #	81
25) 2-Butanone	7.494	43	10043	2.397	ug/l	93
27) cis-1,2-Dichloroethene	7.489	96	1157	0.215	ug/l #	1
29) Tetrahydrofuran	7.841	42	1181	0.433	ug/l #	31
31) Cyclohexane	8.230	56	9378	1.189	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	26751	4.746	ug/l #	48
37) Ethyl Acetate	7.494	43	10043	1.400	ug/l #	66
38) Carbon Tetrachloride	8.230	117	34740	6.278	ug/l #	18
39) Methylcyclohexane	9.606	83	2176	0.282	ug/l #	76
41) Methacrylonitrile	7.853	41	967	0.240	ug/l #	29
48) Methyl methacrylate	9.471	41	3327	0.628	ug/l #	38
51) 4-Methyl-2-Pentanone	10.447	43	12703	1.832	ug/l	93
52) Toluene	10.630	92	24636	2.187	ug/l	100
59) 2-Hexanone	11.065	43	18797	4.209	ug/l	75
67) Ethyl Benzene	11.959	91	19052	0.910	ug/l	98
68) m/p-Xylenes	12.065	106	13657	1.704	ug/l	89
69) o-Xylene	12.394	106	5250	0.684	ug/l	94
76) 1,2,3-Trichloropropane	12.847	75	124412	19.382	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	124412	44.617	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.476	105	5123	0.315	ug/l	100
95) Naphthalene	15.635	128	20537	1.013	ug/l #	87
96) 1,2,3-Trichlorobenzene	15.912	180	1084	0.200	ug/l	65

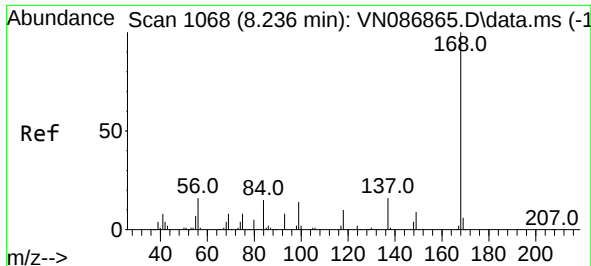
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

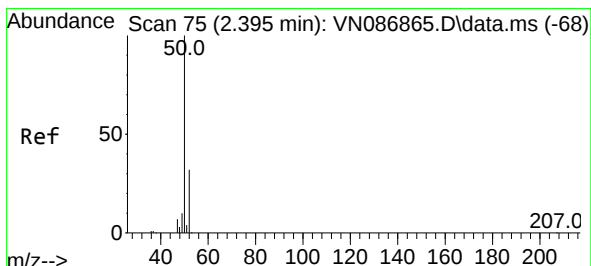
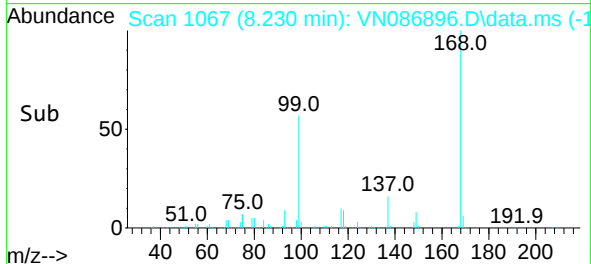
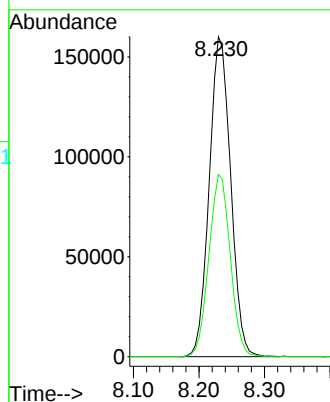
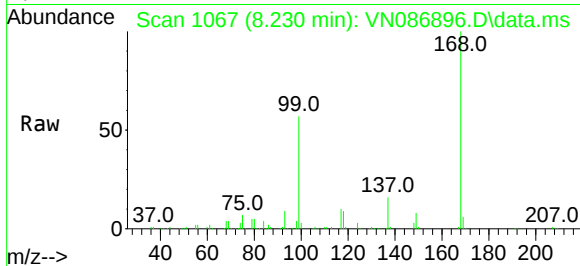




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

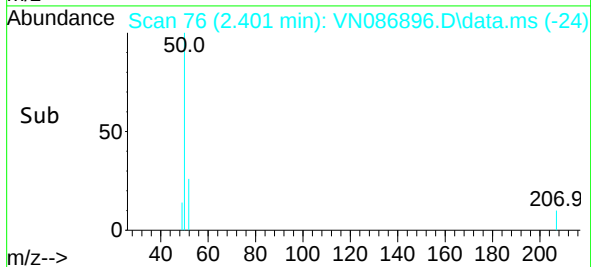
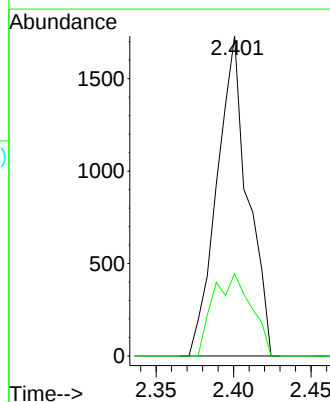
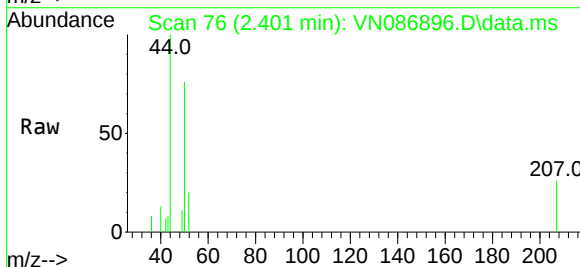
Instrument :
MSVOA_N
ClientSampleId :
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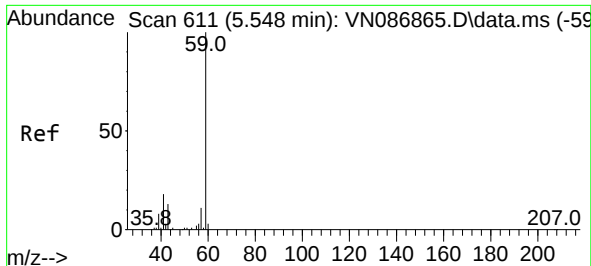
Tgt Ion:168 Resp: 363061
Ion Ratio Lower Upper
168 100
99 56.9 49.1 73.7



#3
Chloromethane
Concen: 0.512 ug/l
RT: 2.401 min Scan# 76
Delta R.T. 0.006 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

Tgt Ion: 50 Resp: 2395
Ion Ratio Lower Upper
50 100
52 25.8 25.7 38.5

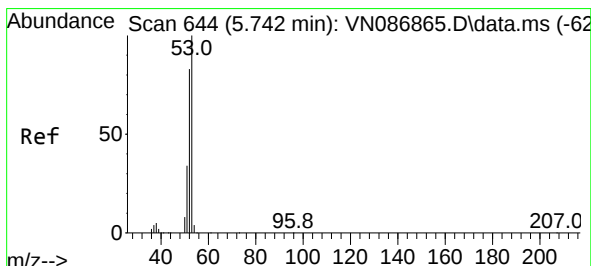
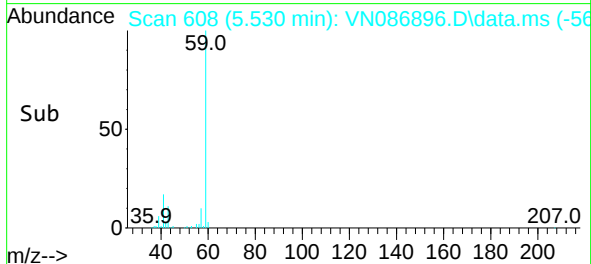
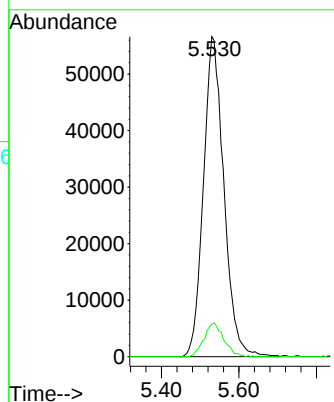
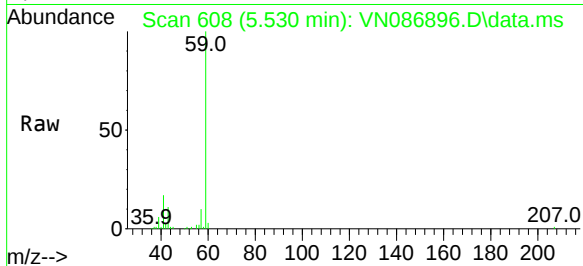




#11
Tert butyl alcohol
Concen: 157.037 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.018 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

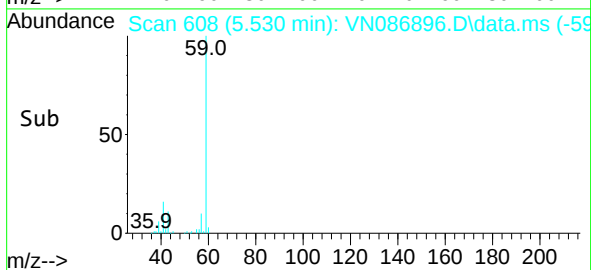
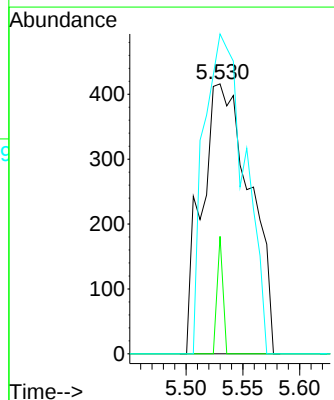
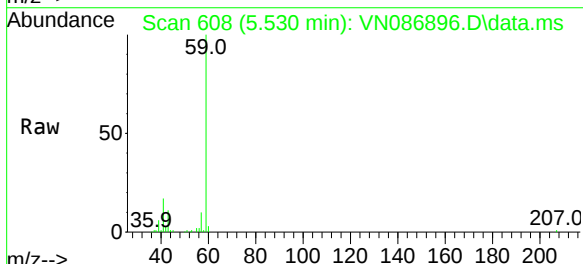
Instrument :
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ClientSampleId :
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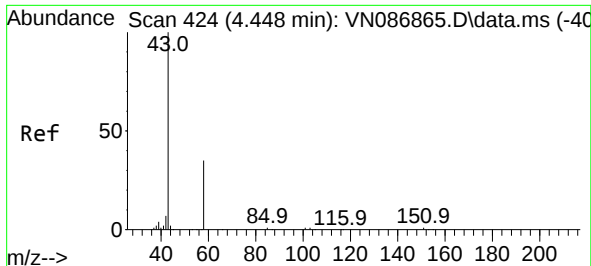
Tgt Ion: 59 Resp: 207129
Ion Ratio Lower Upper
59 100
57 10.1 8.1 12.1



#15
Acrylonitrile
Concen: 0.398 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.212 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

Tgt Ion: 53 Resp: 1228
Ion Ratio Lower Upper
53 100
52 5.2 65.0 97.6#
51 100.3 27.2 40.8#

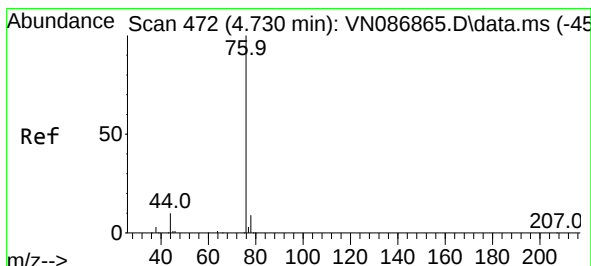
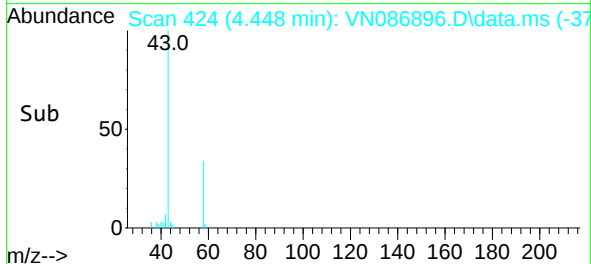
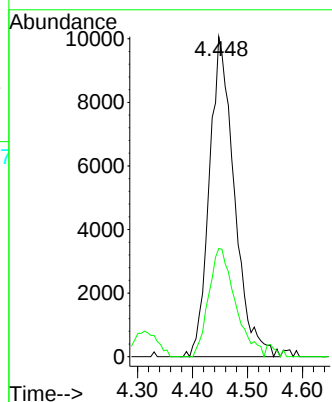
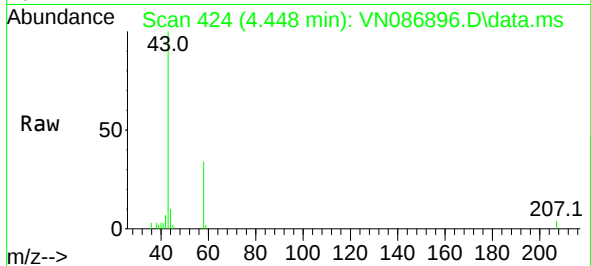




#16
Acetone
Concen: 12.319 ug/l
RT: 4.448 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

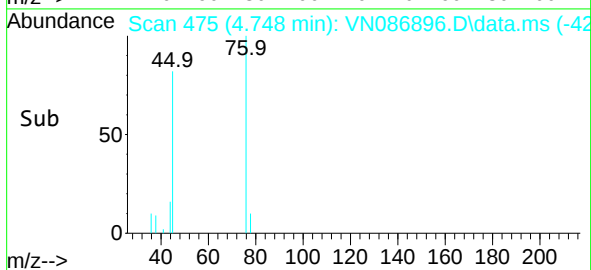
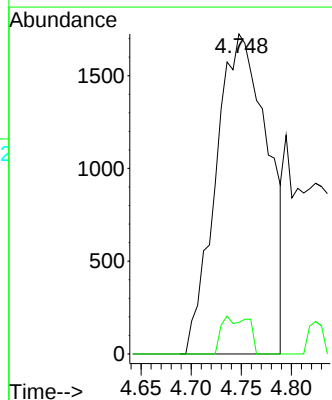
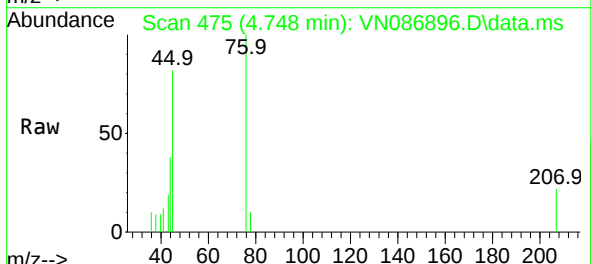
Instrument :
MSVOA_N
ClientSampleId :
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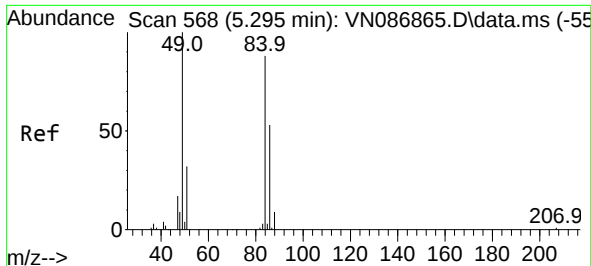
Tgt Ion: 43 Resp: 31756
Ion Ratio Lower Upper
43 100
58 33.8 28.0 42.0



#17
Carbon Disulfide
Concen: 0.555 ug/l
RT: 4.748 min Scan# 475
Delta R.T. 0.018 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

Tgt Ion: 76 Resp: 6203
Ion Ratio Lower Upper
76 100
78 9.9 7.3 10.9





#20

Methylene Chloride

Concen: 0.278 ug/l

RT: 5.300 min Scan# 5

Delta R.T. 0.006 min

Lab File: VN086896.D

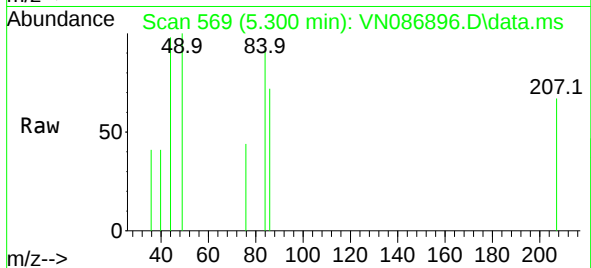
Acq: 09 Jun 2025 11:55

Instrument :

MSVOA_N

ClientSampleId :

3851



Tgt Ion: 84 Resp: 1340

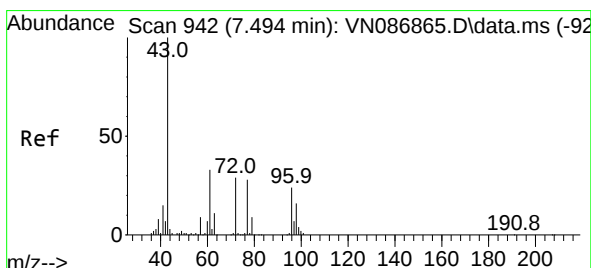
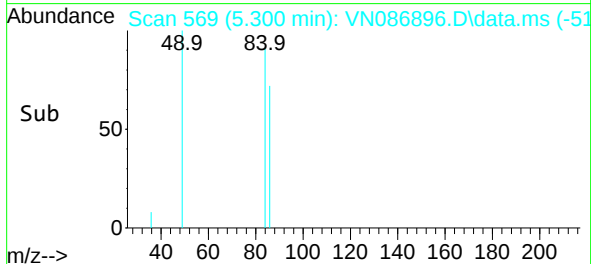
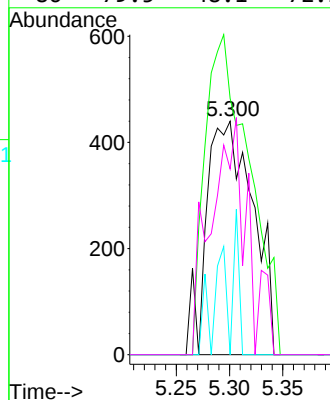
Ion Ratio Lower Upper

84 100

49 109.8 90.5 135.7

51 0.0 28.5 42.7#

86 79.5 48.1 72.1#



#25

2-Butanone

Concen: 2.397 ug/l

RT: 7.494 min Scan# 942

Delta R.T. -0.000 min

Lab File: VN086896.D

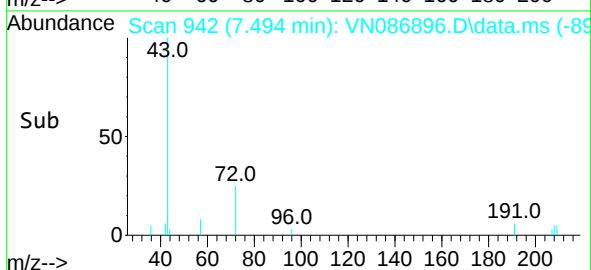
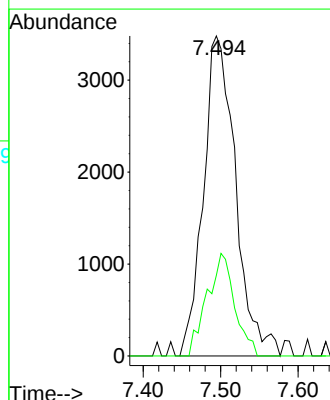
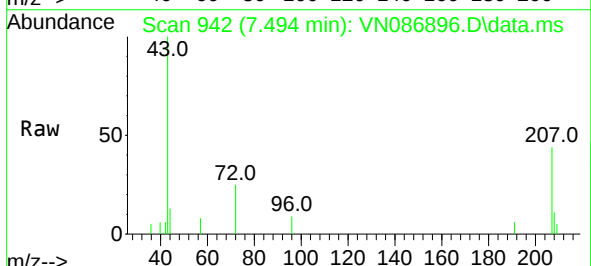
Acq: 09 Jun 2025 11:55

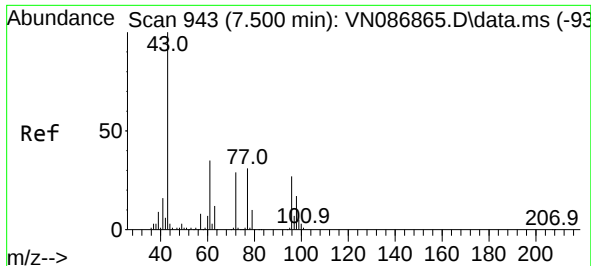
Tgt Ion: 43 Resp: 10043

Ion Ratio Lower Upper

43 100

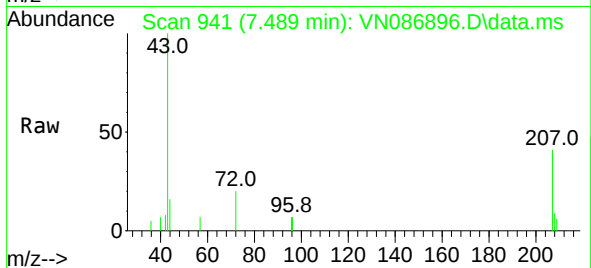
72 25.2 23.0 34.6



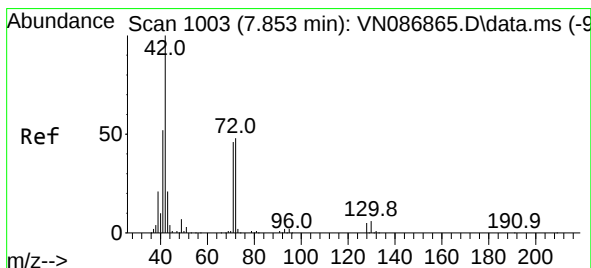
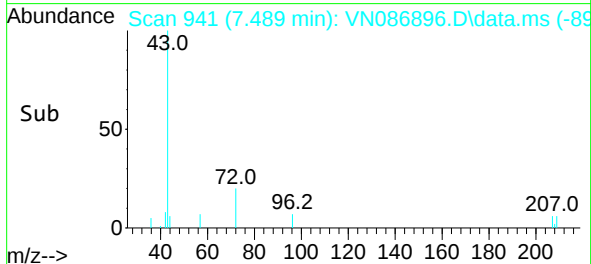
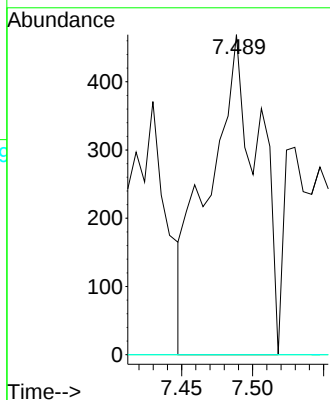


#27
cis-1,2-Dichloroethene
Concen: 0.215 ug/l
RT: 7.489 min Scan# 94
Delta R.T. -0.012 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

Instrument :
MSVOA_N
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3851

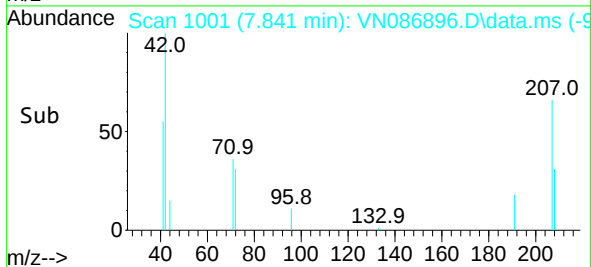
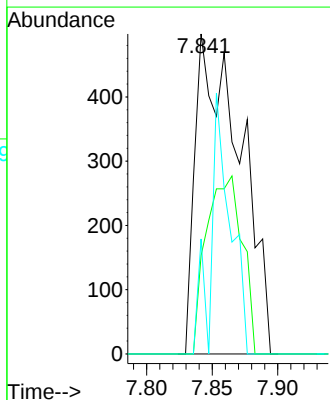
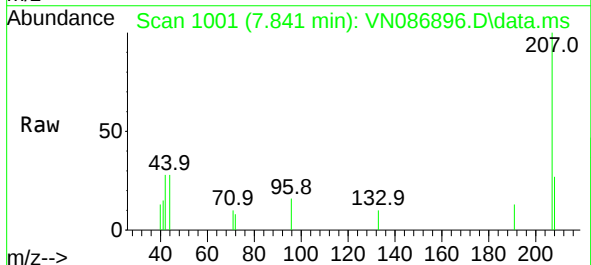


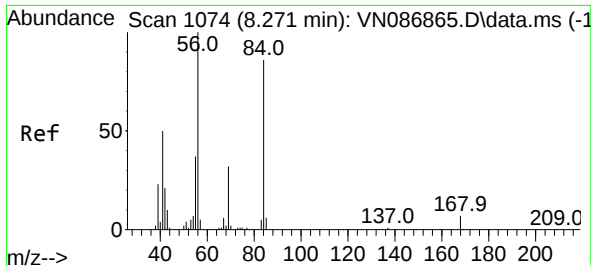
Tgt Ion: 96 Resp: 1157
Ion Ratio Lower Upper
96 100
61 0.0 0.0 278.0
98 0.0 0.0 128.2



#29
Tetrahydrofuran
Concen: 0.433 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. -0.012 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

Tgt Ion: 42 Resp: 1181
Ion Ratio Lower Upper
42 100
72 0.0 37.8 56.6#
71 0.0 35.6 53.4#

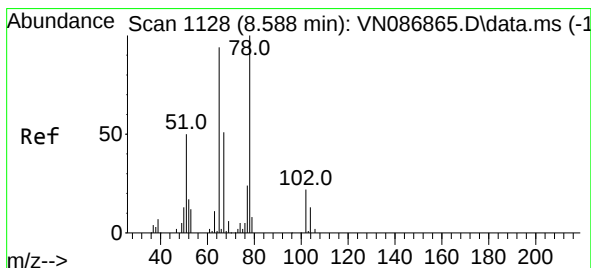
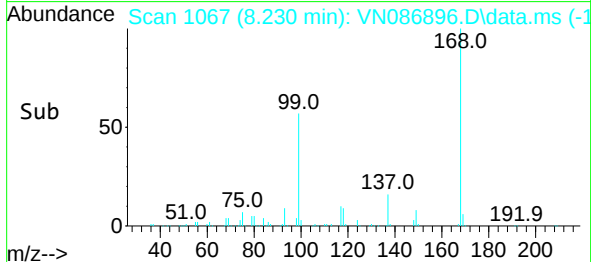
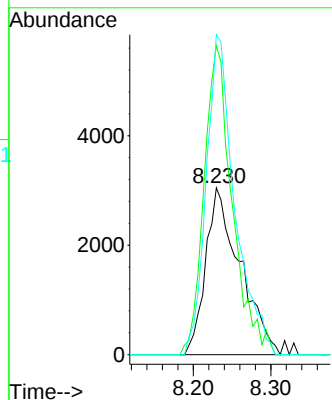
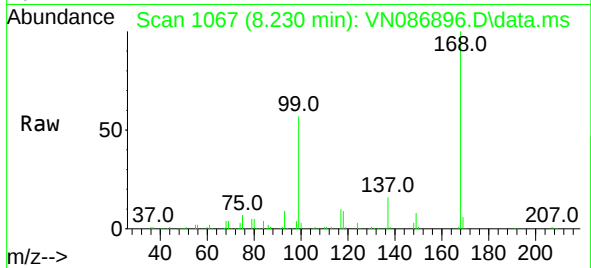




#31
Cyclohexane
Concen: 1.189 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.041 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

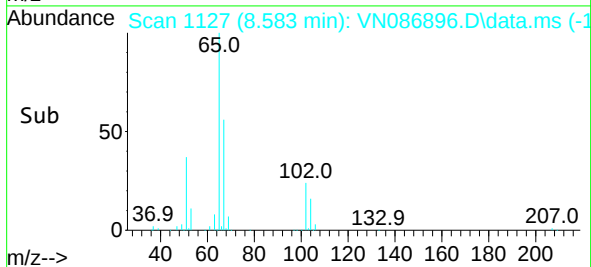
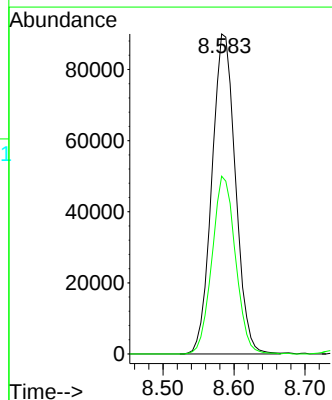
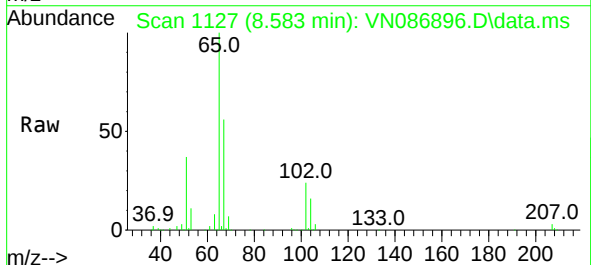
Instrument :
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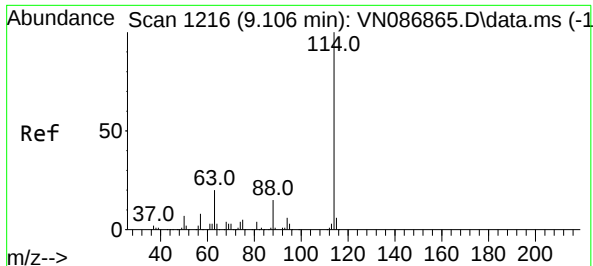
Tgt Ion: 56 Resp: 9378
Ion Ratio Lower Upper
56 100
69 185.1 25.4 38.0#
84 191.8 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 42.640 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

Tgt Ion: 65 Resp: 207274
Ion Ratio Lower Upper
65 100
67 55.3 0.0 105.6

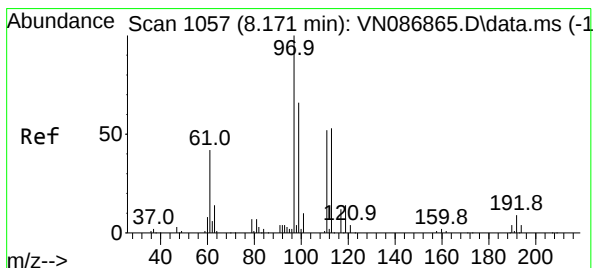
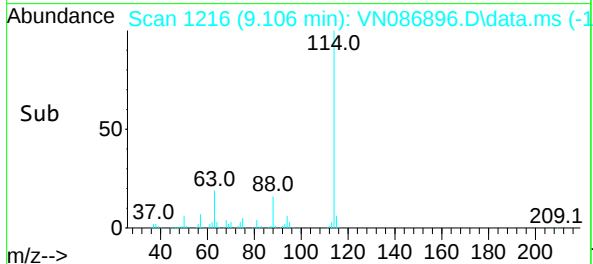
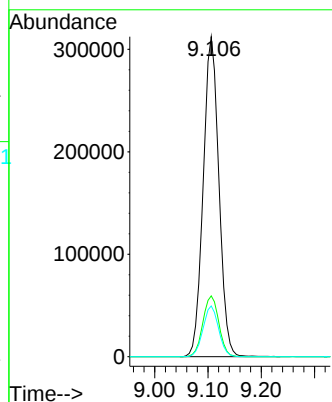
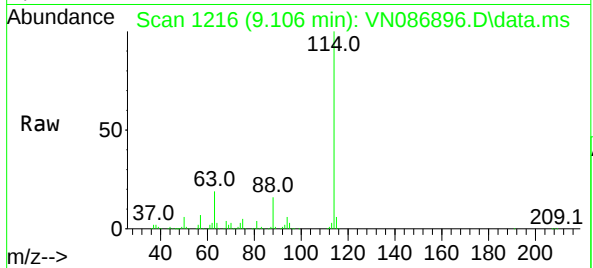




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

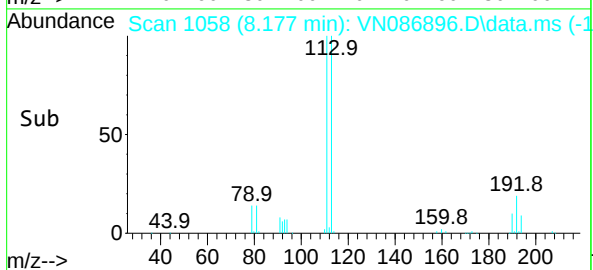
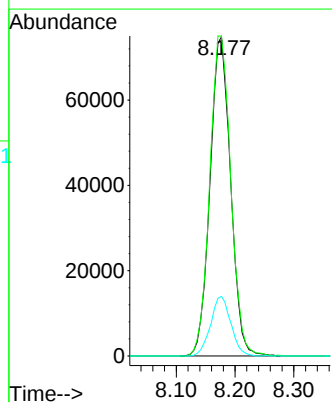
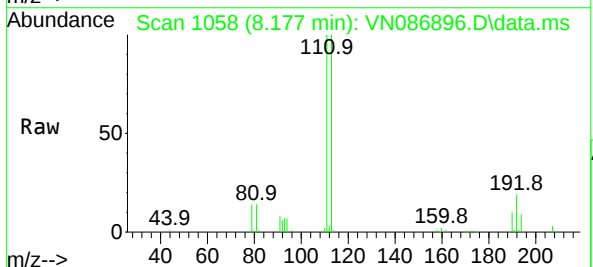
Instrument :
MSVOA_N
ClientSampleId :
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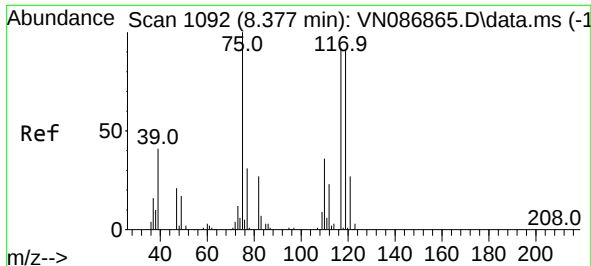
Tgt Ion:114 Resp: 638255
Ion Ratio Lower Upper
114 100
63 19.0 0.0 39.6
88 15.9 0.0 30.2



#35
Dibromofluoromethane
Concen: 48.125 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

Tgt Ion:113 Resp: 182031
Ion Ratio Lower Upper
113 100
111 102.8 84.2 126.2
192 18.3 14.2 21.4

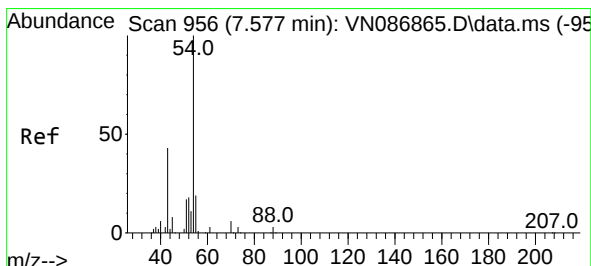
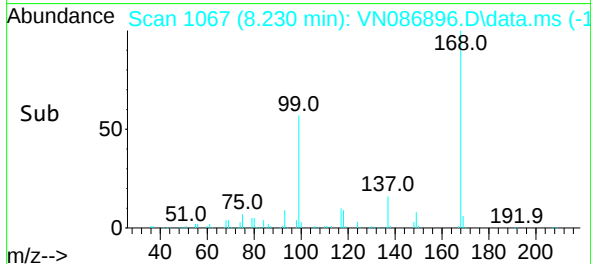
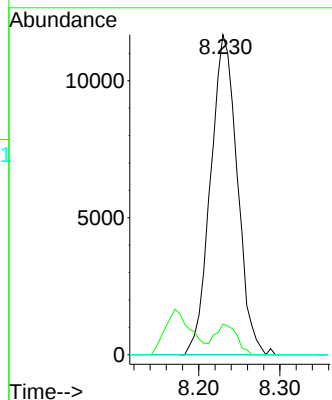
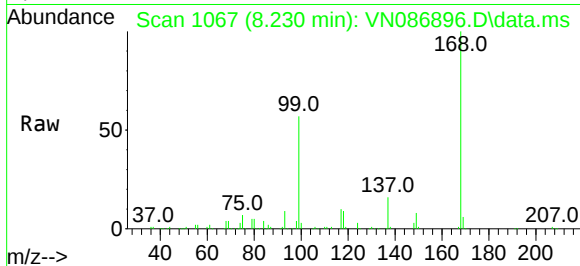




#36
1,1-Dichloropropene
Concen: 4.746 ug/l
RT: 8.230 min Scan# 1092
Delta R.T. -0.147 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

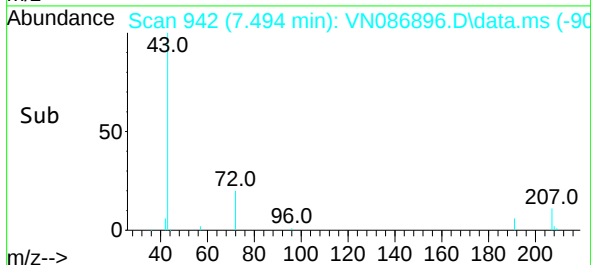
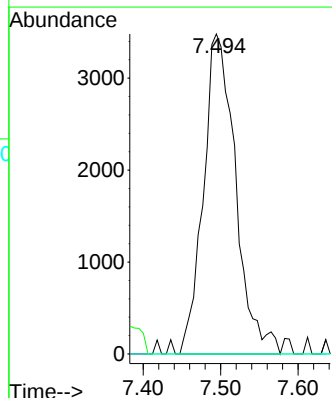
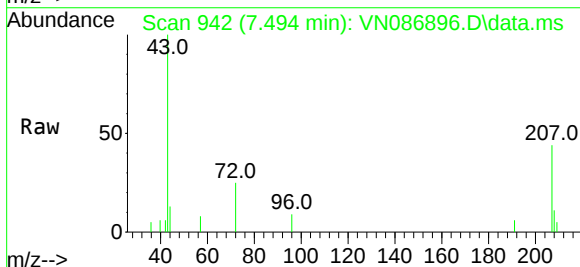
Instrument :
MSVOA_N
ClientSampleId :
3851

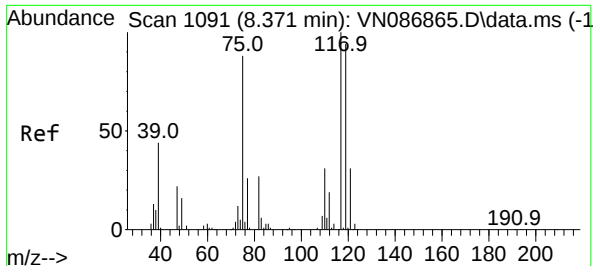
Tgt Ion: 75 Resp: 26751
Ion Ratio Lower Upper
75 100
110 7.6 17.6 52.9#
77 0.0 25.3 37.9#



#37
Ethyl Acetate
Concen: 1.400 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.082 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

Tgt Ion: 43 Resp: 10043
Ion Ratio Lower Upper
43 100
61 0.0 12.1 18.1#
70 0.0 9.8 14.6#

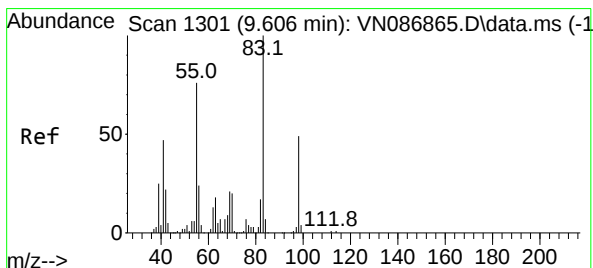
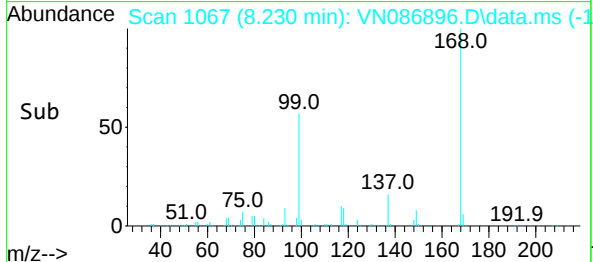
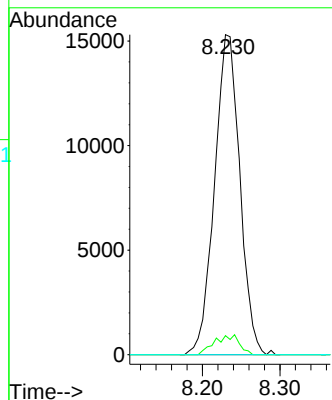
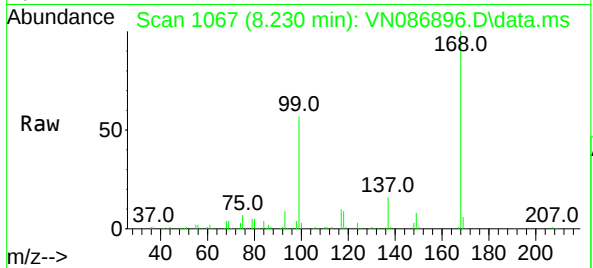




#38
Carbon Tetrachloride
Concen: 6.278 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

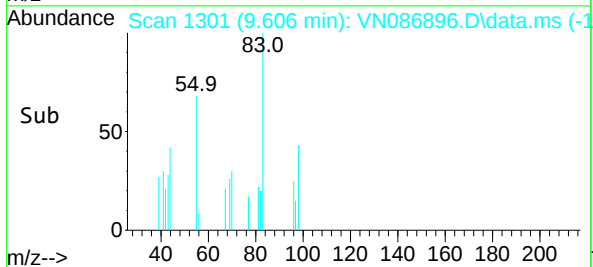
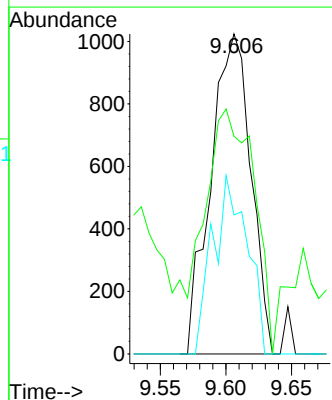
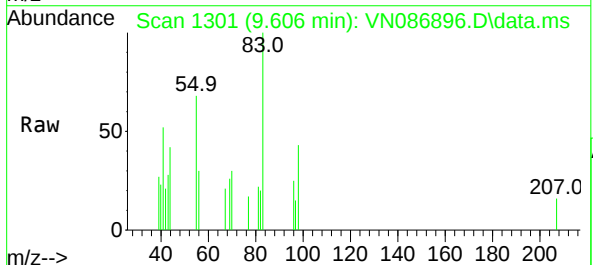
Instrument :
MSVOA_N
ClientSampleId :
3851

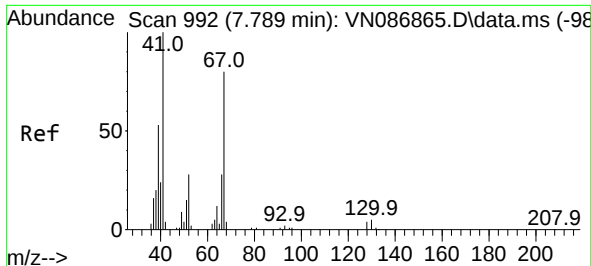
Tgt Ion:117 Resp: 34740
Ion Ratio Lower Upper
117 100
119 5.9 75.0 112.6#
121 0.0 24.9 37.3#



#39
Methylcyclohexane
Concen: 0.282 ug/l
RT: 9.606 min Scan# 1301
Delta R.T. -0.000 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

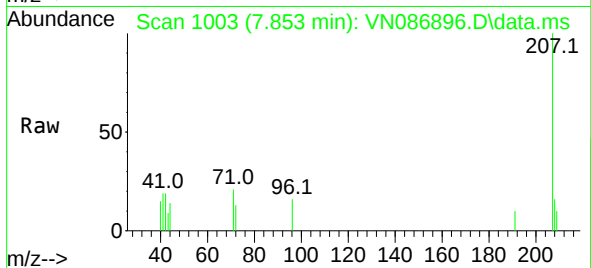
Tgt Ion: 83 Resp: 2176
Ion Ratio Lower Upper
83 100
55 47.1 61.0 91.6#
98 43.5 38.9 58.3



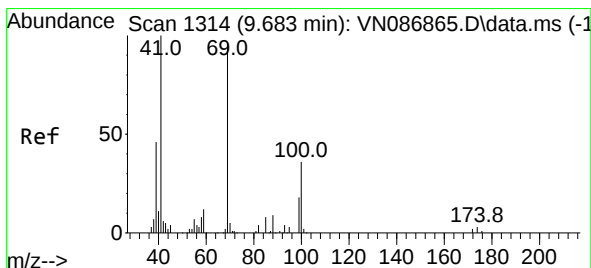
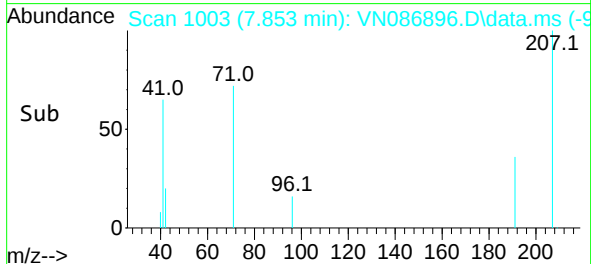
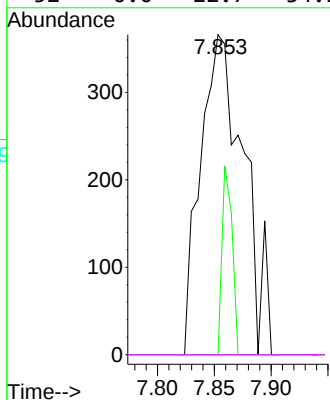


#41
Methacrylonitrile
Concen: 0.240 ug/l
RT: 7.853 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

Instrument :
MSVOA_N
ClientSampleId :
3851

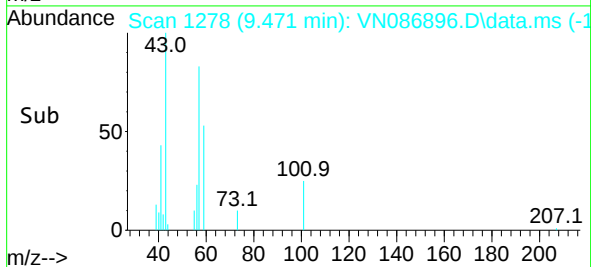
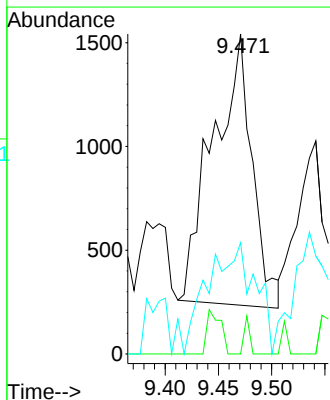
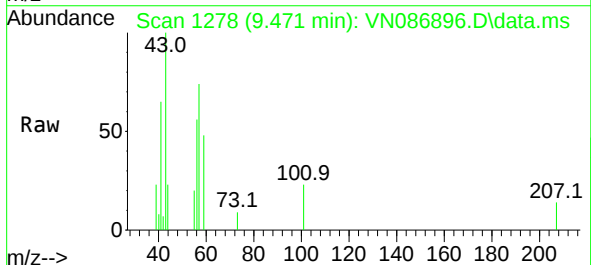


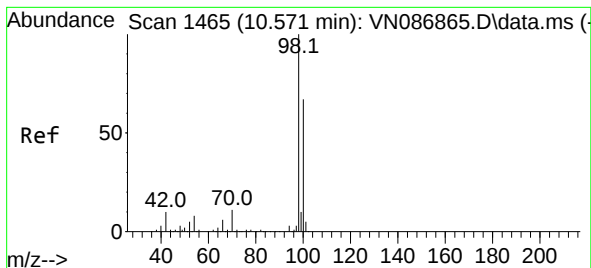
Tgt Ion: 41	Resp: 967
Ion Ratio	Lower Upper
41 100	
39 13.8	41.2 61.8#
67 0.0	61.4 92.2#
52 0.0	22.7 34.1#



#48
Methyl methacrylate
Concen: 0.628 ug/l
RT: 9.471 min Scan# 1278
Delta R.T. -0.212 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

Tgt Ion: 41	Resp: 3327
Ion Ratio	Lower Upper
41 100	
69 2.0	74.6 112.0#
39 49.4	40.2 60.4

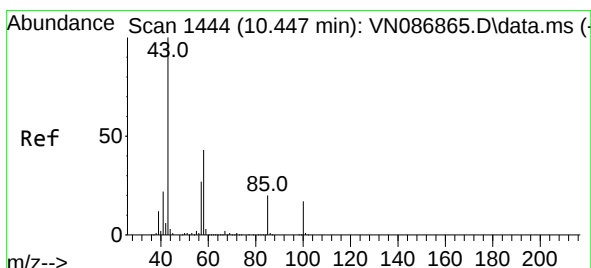
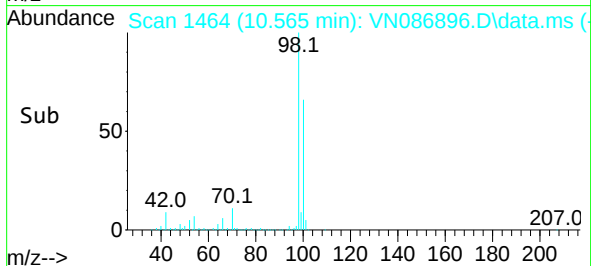
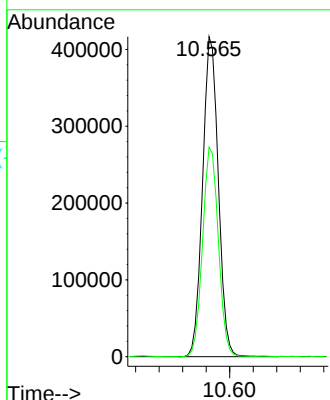
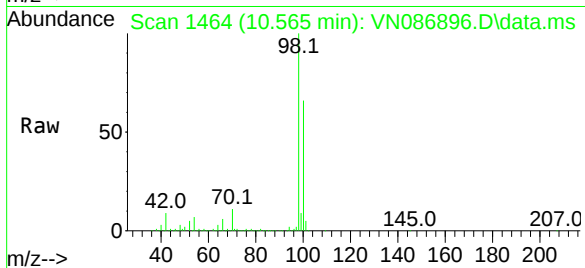




#50
Toluene-d8
Concen: 51.539 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

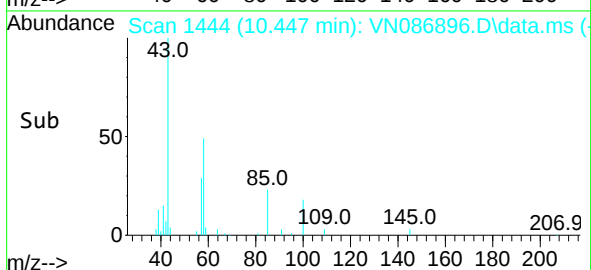
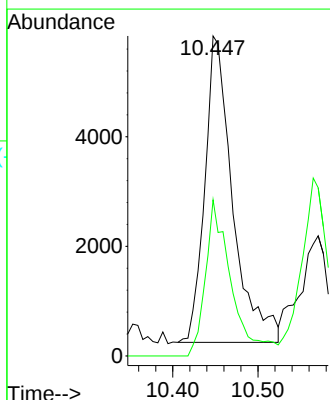
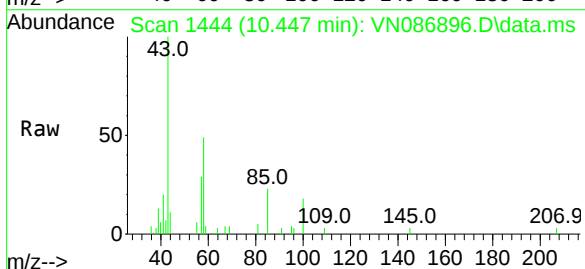
Instrument :
MSVOA_N
ClientSampleId :
3851

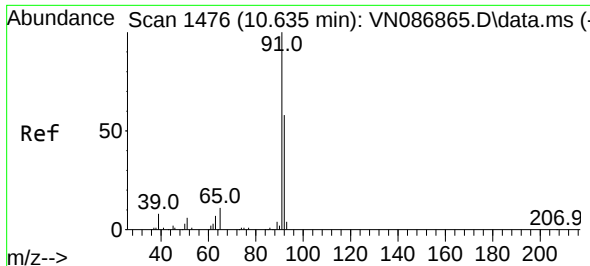
Tgt Ion: 98 Resp: 771729
Ion Ratio Lower Upper
98 100
100 65.8 53.4 80.0



#51
4-Methyl-2-Pentanone
Concen: 1.832 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

Tgt Ion: 43 Resp: 12703
Ion Ratio Lower Upper
43 100
58 47.2 34.2 51.4

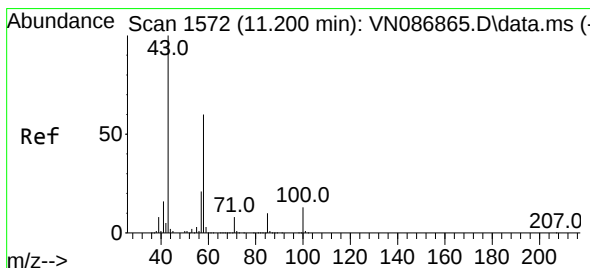
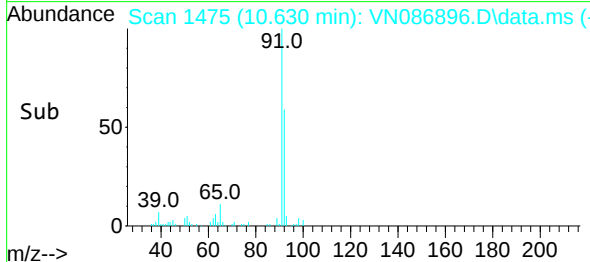
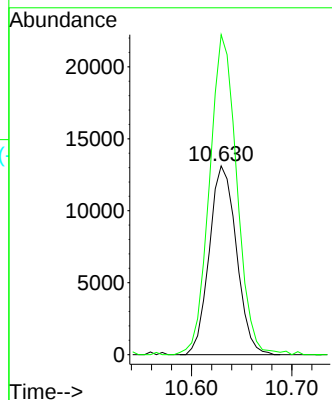
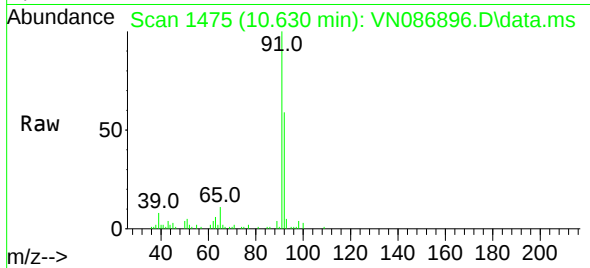




#52
Toluene
Concen: 2.187 ug/l
RT: 10.630 min Scan# 1476
Delta R.T. -0.006 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

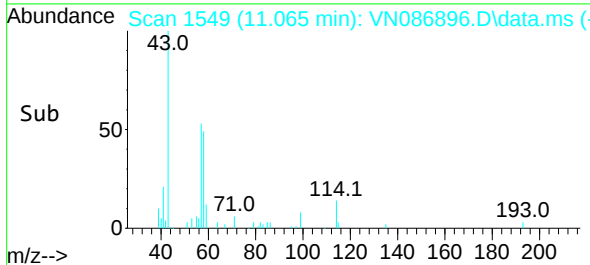
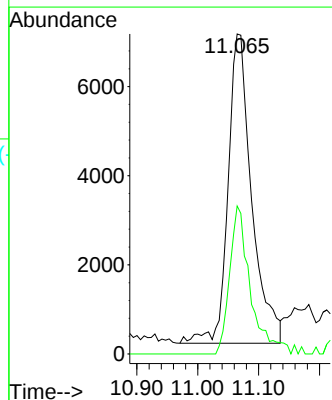
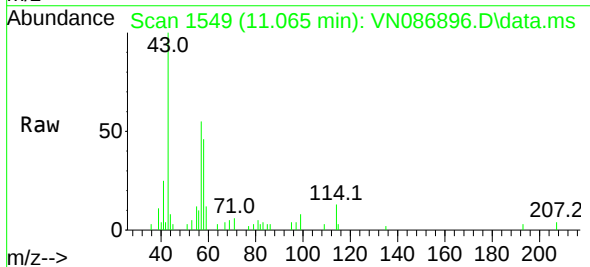
Instrument :
MSVOA_N
ClientSampleId :
3851

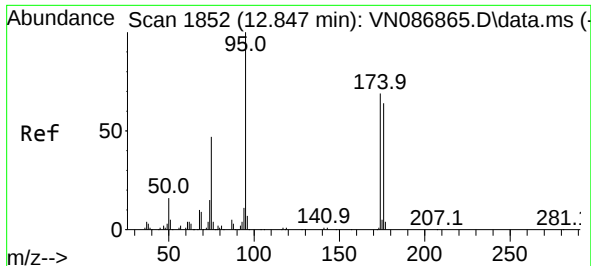
Tgt Ion: 92 Resp: 24636
Ion Ratio Lower Upper
92 100
91 171.0 136.5 204.7



#59
2-Hexanone
Concen: 4.209 ug/l
RT: 11.065 min Scan# 1549
Delta R.T. -0.135 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

Tgt Ion: 43 Resp: 18797
Ion Ratio Lower Upper
43 100
58 41.9 30.4 91.3

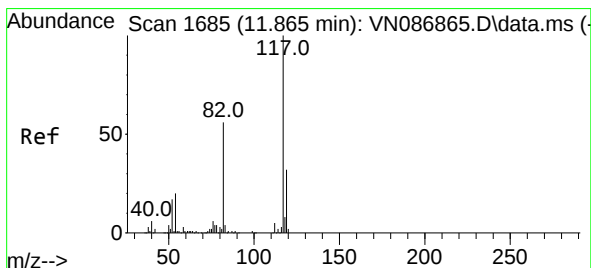
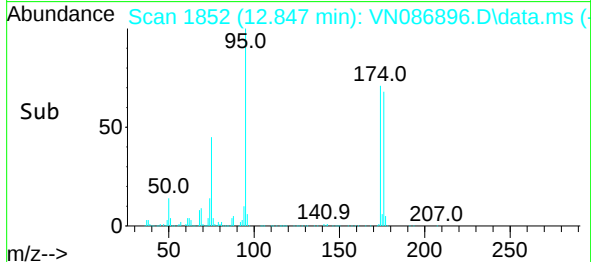
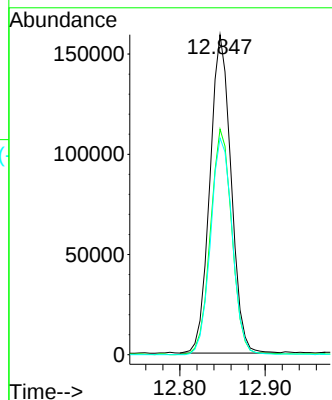
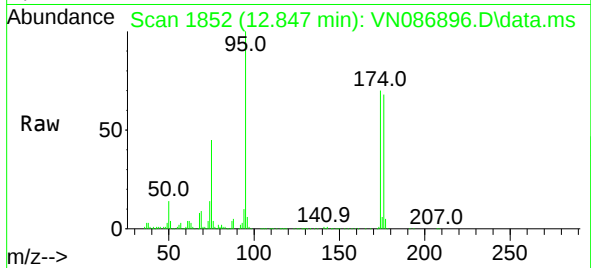




#62
4-Bromofluorobenzene
Concen: 49.162 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

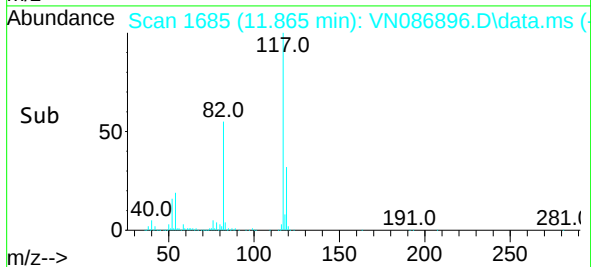
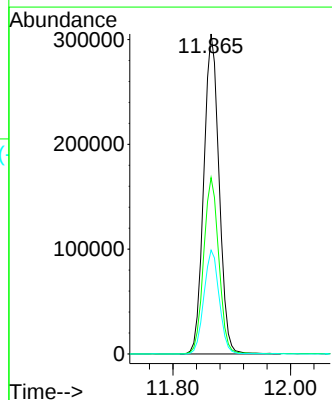
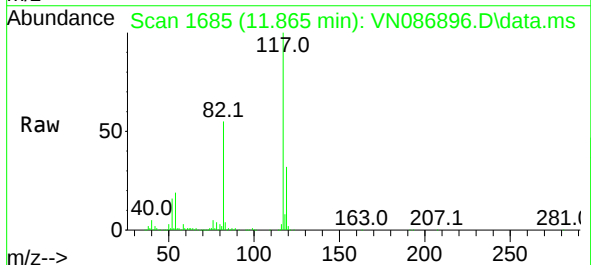
Instrument :
MSVOA_N
ClientSampleId :
3851

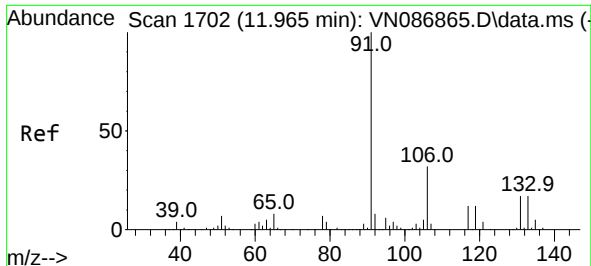
Tgt Ion: 95 Resp: 273497
Ion Ratio Lower Upper
95 100
174 72.0 0.0 141.8
176 69.8 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

Tgt Ion: 117 Resp: 551008
Ion Ratio Lower Upper
117 100
82 55.0 44.6 67.0
119 32.5 25.5 38.3

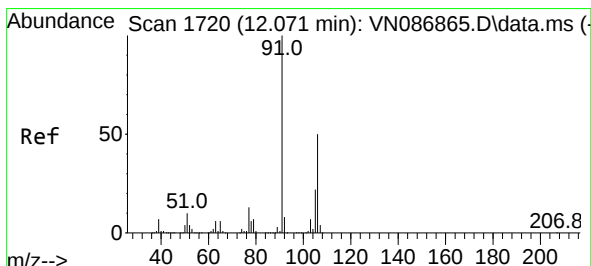
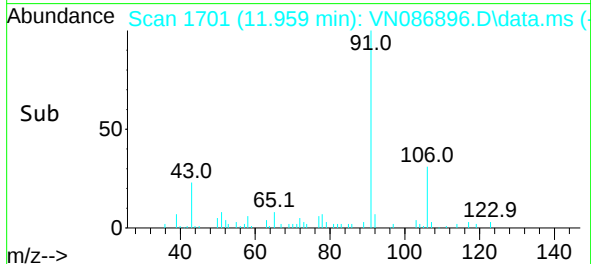
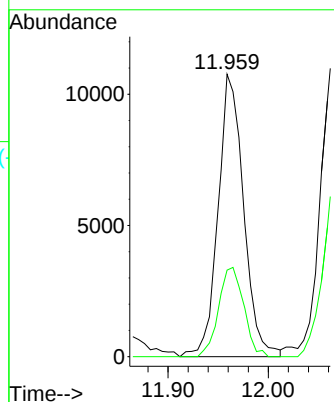
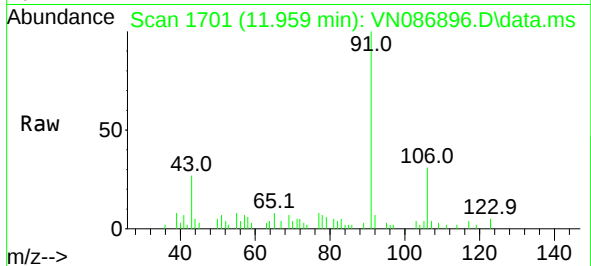




#67
Ethyl Benzene
Concen: 0.910 ug/l
RT: 11.959 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

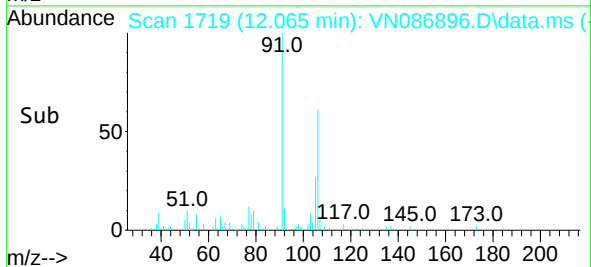
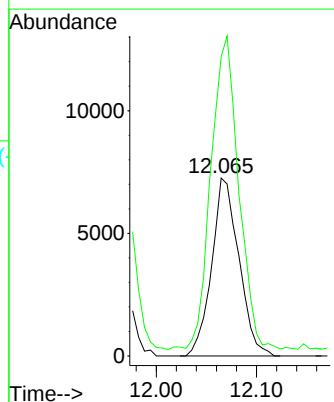
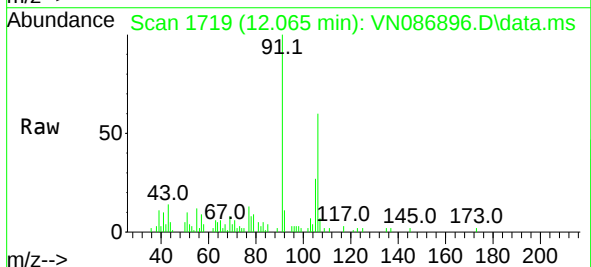
Instrument :
MSVOA_N
ClientSampleId :
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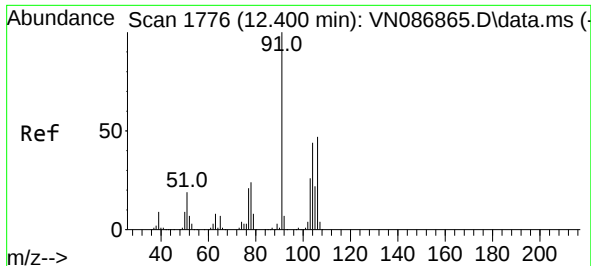
Tgt Ion: 91 Resp: 19052
Ion Ratio Lower Upper
91 100
106 30.6 25.4 38.2



#68
m/p-Xylenes
Concen: 1.704 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

Tgt Ion: 106 Resp: 13657
Ion Ratio Lower Upper
106 100
91 182.0 159.4 239.0

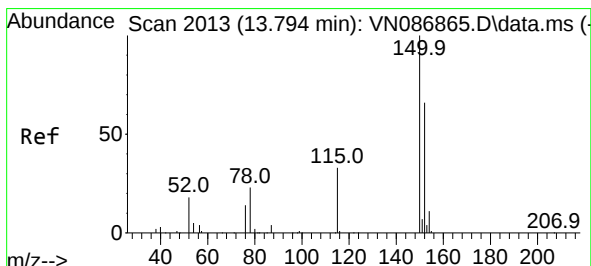
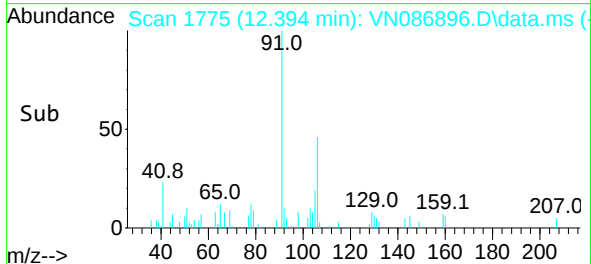
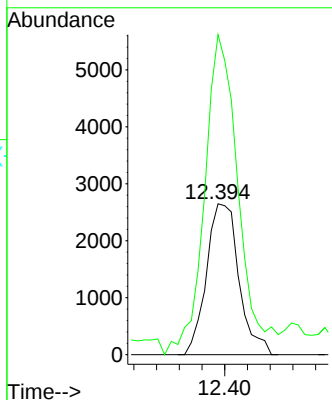
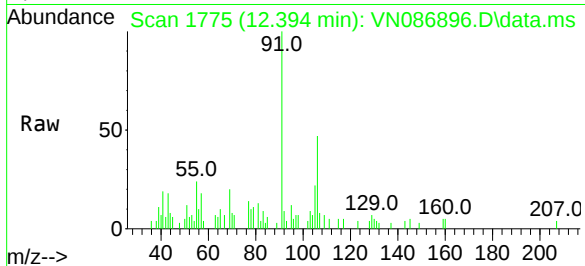




#69
o-Xylene
Concen: 0.684 ug/l
RT: 12.394 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

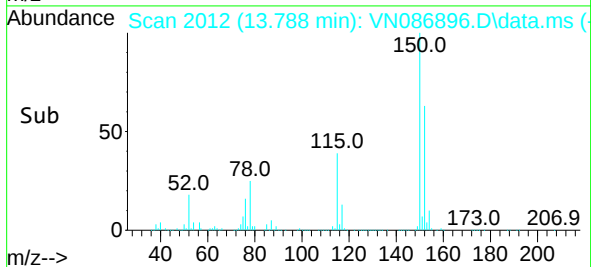
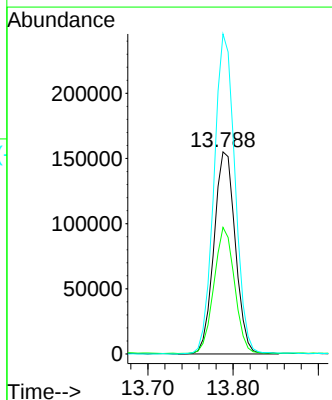
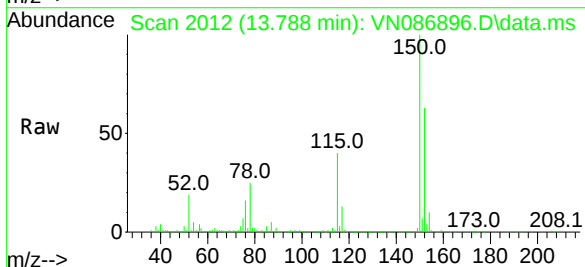
Instrument :
MSVOA_N
ClientSampleId :
3851

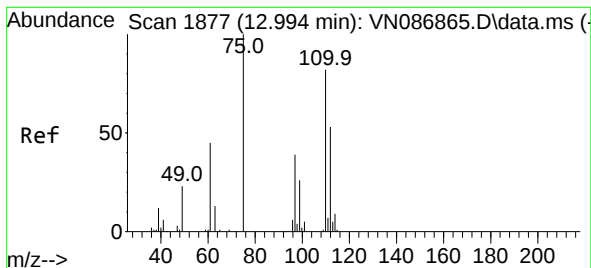
Tgt Ion:106 Resp: 5250
Ion Ratio Lower Upper
106 100
91 221.1 106.1 318.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN086896.D
Acq: 09 Jun 2025 11:55

Tgt Ion:152 Resp: 270034
Ion Ratio Lower Upper
152 100
115 60.4 30.1 90.5
150 156.5 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 19.382 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN086896.D

Acq: 09 Jun 2025 11:55

Instrument :

MSVOA_N

ClientSampleId :

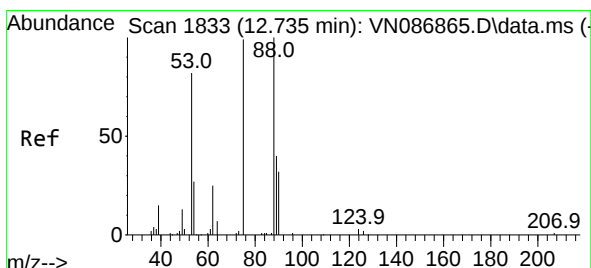
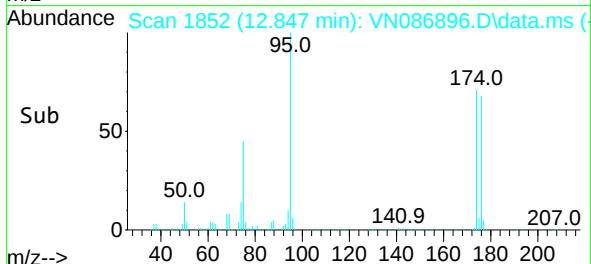
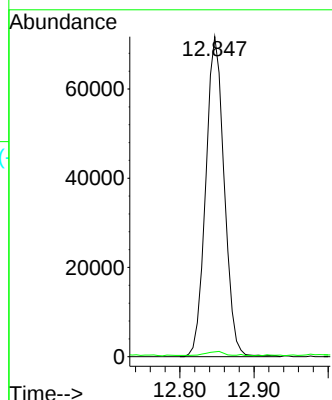
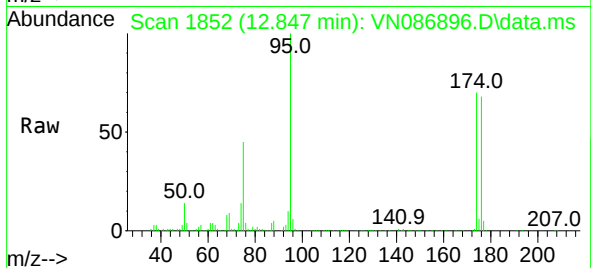
3851

Tgt Ion: 75 Resp: 124412

Ion Ratio Lower Upper

75 100

77 1.2 79.3 237.9#



#81

trans-1,4-Dichloro-2-butene

Concen: 44.617 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN086896.D

Acq: 09 Jun 2025 11:55

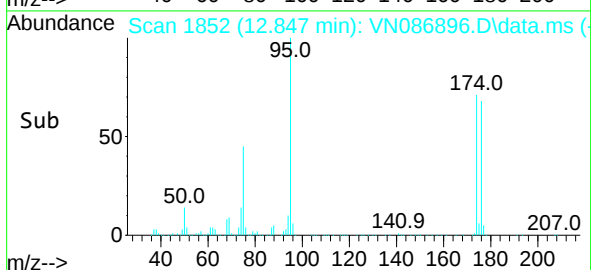
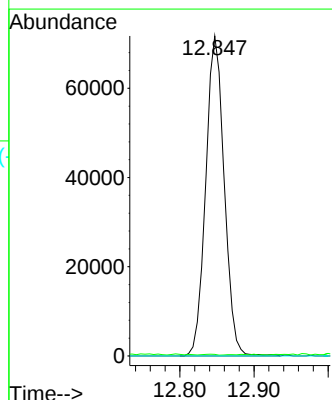
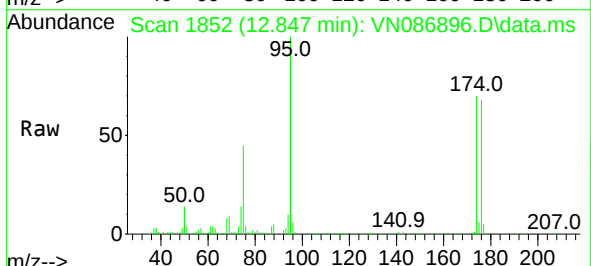
Tgt Ion: 75 Resp: 124412

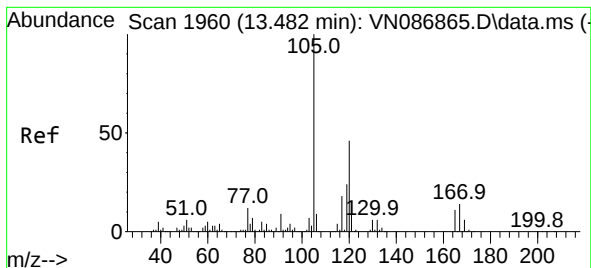
Ion Ratio Lower Upper

75 100

53 0.2 66.6 99.8#

89 0.0 36.7 55.1#





#84

1,2,4-Trimethylbenzene

Concen: 0.315 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.006 min

Lab File: VN086896.D

Acq: 09 Jun 2025 11:55

Instrument :

MSVOA_N

ClientSampleId :

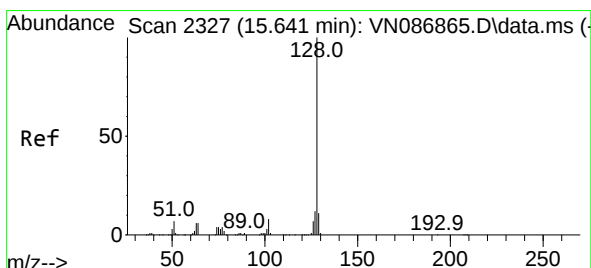
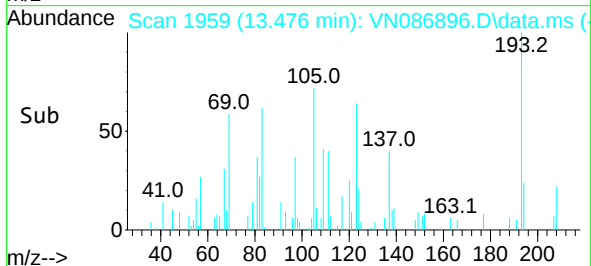
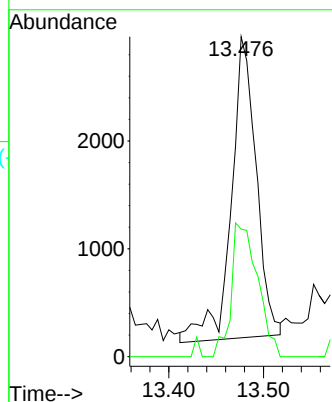
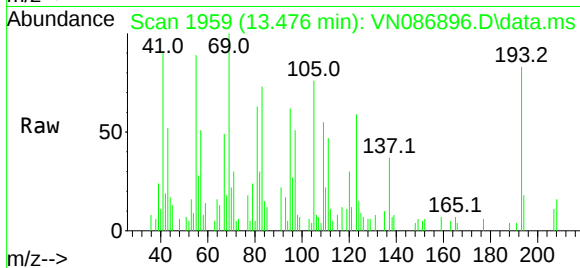
3851

Tgt Ion:105 Resp: 5123

Ion Ratio Lower Upper

105 100

120 46.6 23.2 69.6



#95

Naphthalene

Concen: 1.013 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.006 min

Lab File: VN086896.D

Acq: 09 Jun 2025 11:55

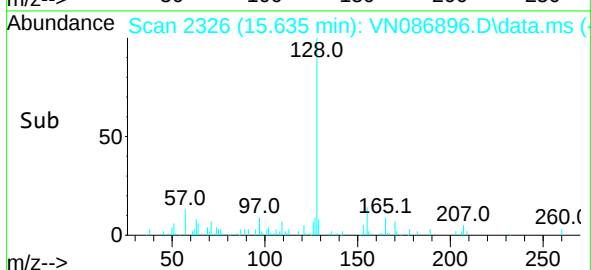
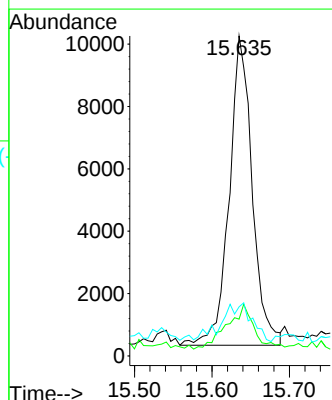
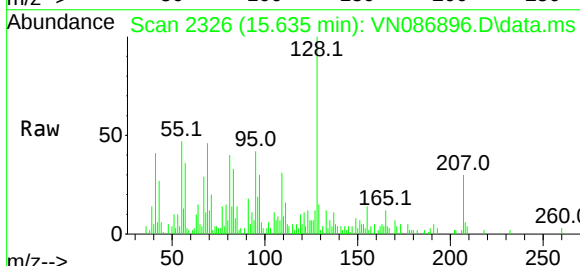
Tgt Ion:128 Resp: 20537

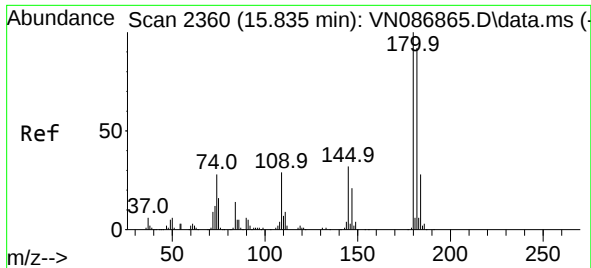
Ion Ratio Lower Upper

128 100

127 17.1 10.2 15.2#

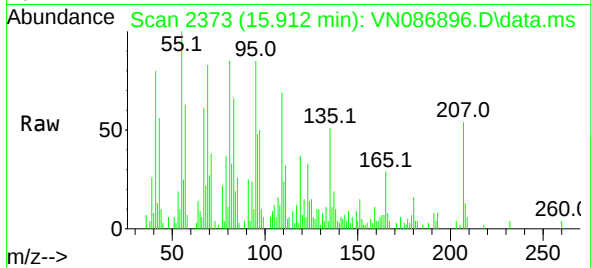
129 16.6 8.8 13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.200 ug/l
 RT: 15.912 min Scan# 21
 Delta R.T. 0.076 min
 Lab File: VN086896.D
 Acq: 09 Jun 2025 11:55

Instrument :
 MSVOA_N
 ClientSampleId :
 3851



Tgt Ion:	180	Resp:	1084
Ion Ratio	Lower	Upper	
180	100		
182	50.7	47.0	141.0
145	36.3	16.6	49.8

