

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
 Data File : VN087381.D
 Acq On : 21 Jul 2025 15:42
 Operator : JC\MD
 Sample : Q2649-16
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-4

Quant Time: Jul 22 03:09:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

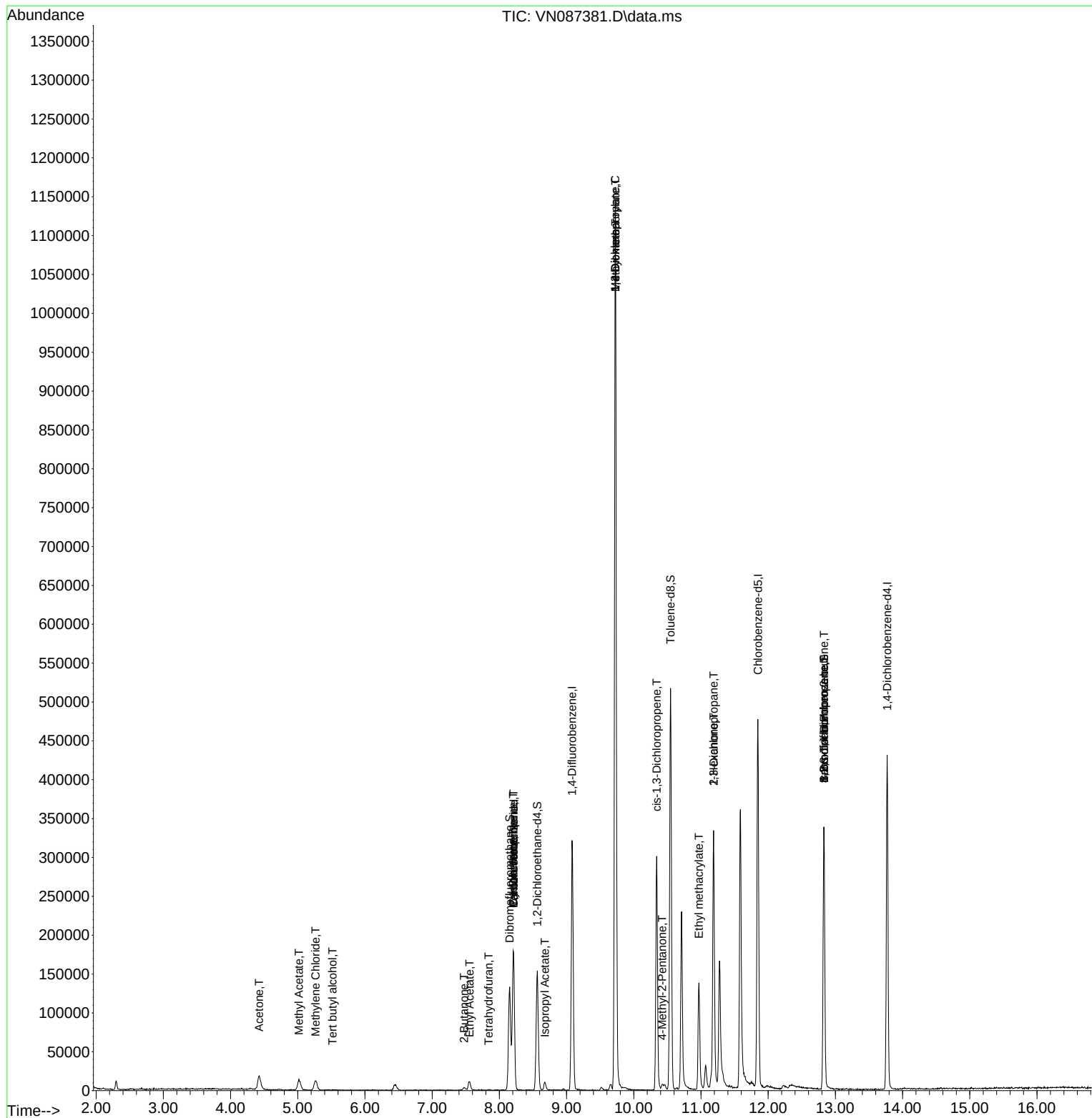
Internal Standards						
1) Pentafluorobenzene	8.212	168	129027	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	263202	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	260994	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	115026	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	126628	57.839	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 115.680%	
35) Dibromofluoromethane	8.153	113	93958	51.751	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.500%	
50) Toluene-d8	10.547	98	347013	53.582	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 107.160%	
62) 4-Bromofluorobenzene	12.829	95	117891	49.271	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 98.540%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.518	59	131	0.315	ug/l #	72
16) Acetone	4.424	43	34487	33.596	ug/l	96
18) Methyl Acetate	5.018	43	27690	10.737	ug/l	98
20) Methylene Chloride	5.265	84	9213	4.730	ug/l #	84
25) 2-Butanone	7.477	43	5832	3.677	ug/l #	87
29) Tetrahydrofuran	7.841	42	294	0.285	ug/l #	35
31) Cyclohexane	8.206	56	3243	1.205	ug/l #	51
36) 1,1-Dichloropropene	8.206	75	11631	4.849	ug/l #	52
37) Ethyl Acetate	7.559	43	18847	5.440	ug/l	96
38) Carbon Tetrachloride	8.212	117	13670	5.173	ug/l #	15
43) Isopropyl Acetate	8.677	43	12491	2.323	ug/l #	88
45) 1,2-Dichloropropane	9.724	63	1344	0.682	ug/l #	41
48) Methyl methacrylate	9.729	41	106070	43.813	ug/l #	45
49) 1,4-Dioxane	9.729	88	59	1.591	ug/l #	1
51) 4-Methyl-2-Pentanone	10.423	43	5230	1.538	ug/l	90
54) cis-1,3-Dichloropropene	10.341	75	53040	17.079	ug/l #	63
56) Ethyl methacrylate	10.970	69	1454	1.097	ug/l #	1
57) 1,3-Dichloropropane	11.188	76	3591	1.089	ug/l #	42
59) 2-Hexanone	11.188	43	61331	27.178	ug/l #	50
71) Bromoform	12.829	173	1508	0.937	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	64278	24.920	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	64278	68.185	ug/l #	8

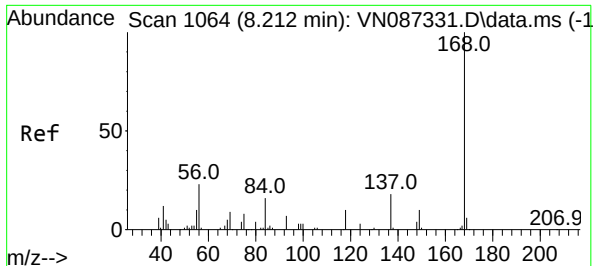
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

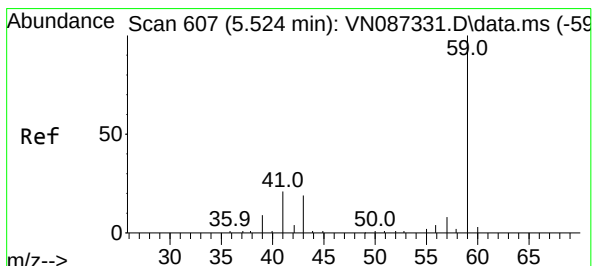
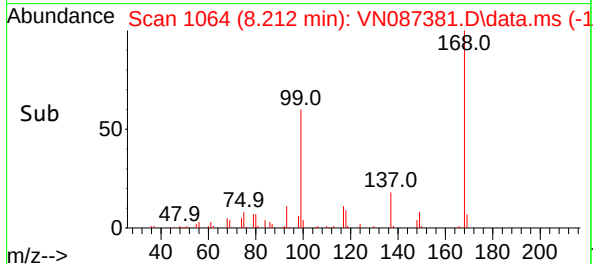
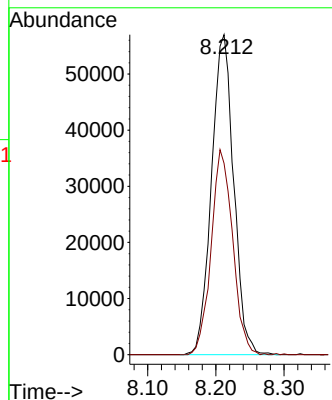
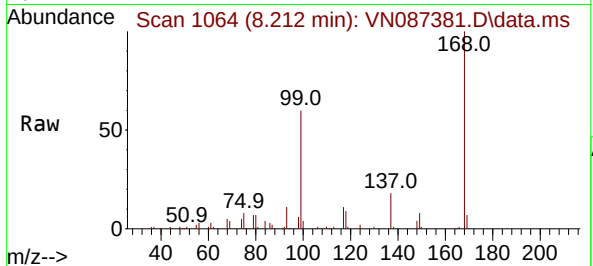




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VN087381.D
Acq: 21 Jul 2025 15:42

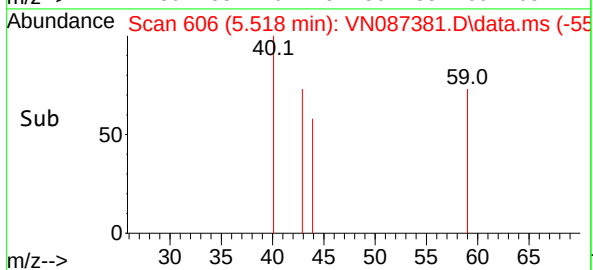
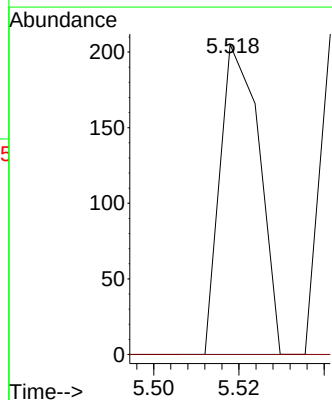
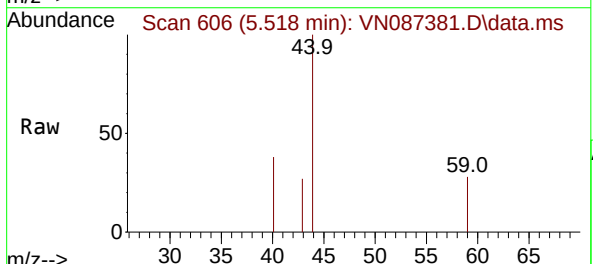
Instrument :
MSVOA_N
ClientSampleId :
WC-4

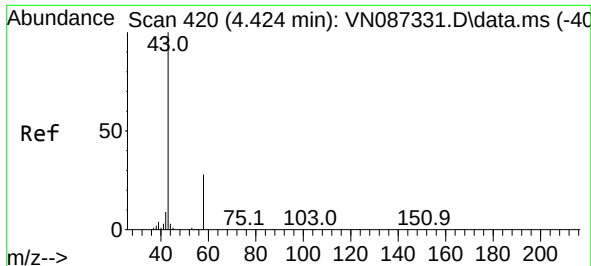
Tgt Ion:168 Resp: 129027
Ion Ratio Lower Upper
168 100
99 59.8 47.9 71.9



#11
Tert butyl alcohol
Concen: 0.315 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN087381.D
Acq: 21 Jul 2025 15:42

Tgt Ion: 59 Resp: 131
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

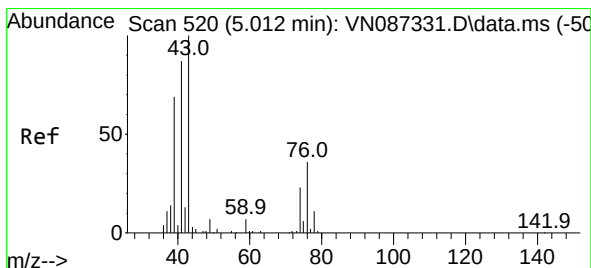
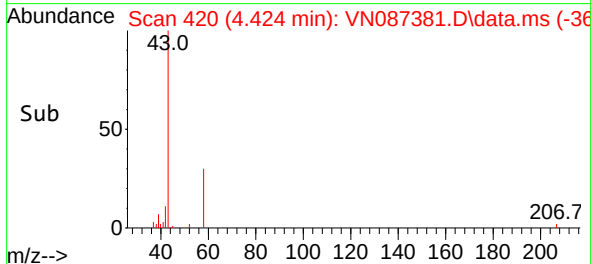
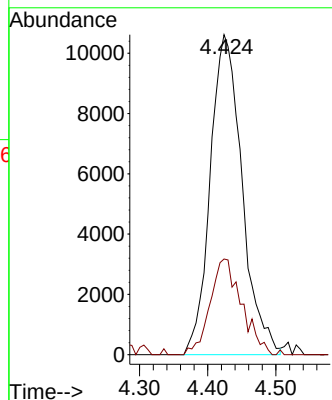
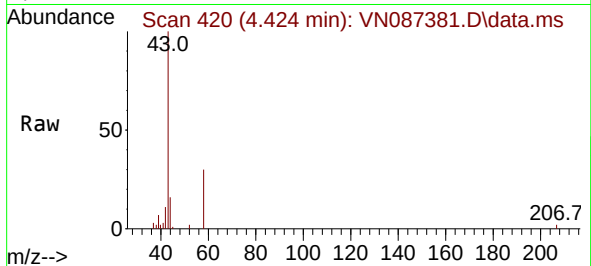




#16
Acetone
Concen: 33.596 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN087381.D
Acq: 21 Jul 2025 15:42

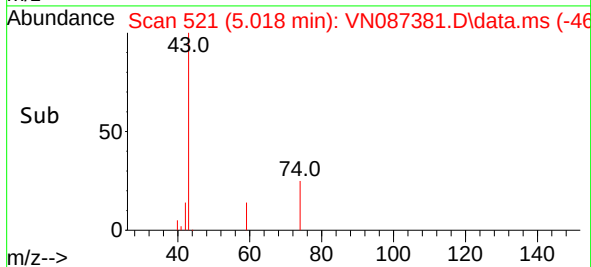
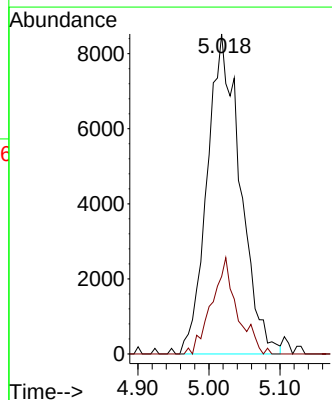
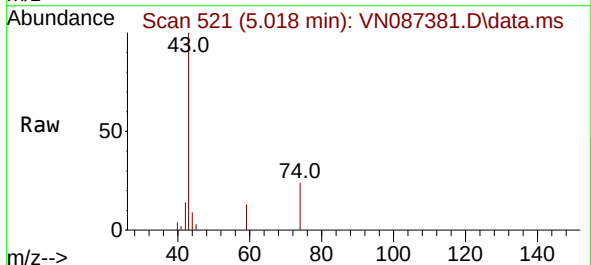
Instrument :
MSVOA_N
ClientSampleId :
WC-4

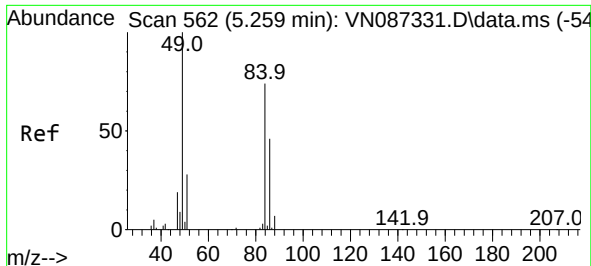
Tgt Ion: 43 Resp: 34487
Ion Ratio Lower Upper
43 100
58 29.9 22.3 33.5



#18
Methyl Acetate
Concen: 10.737 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN087381.D
Acq: 21 Jul 2025 15:42

Tgt Ion: 43 Resp: 27690
Ion Ratio Lower Upper
43 100
74 22.9 17.8 26.6

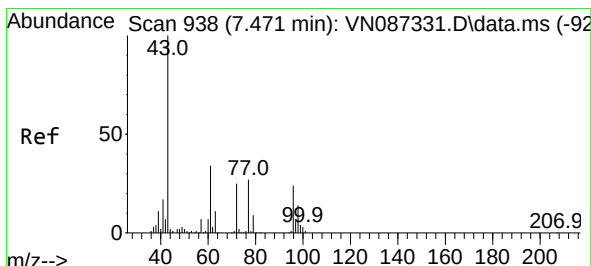
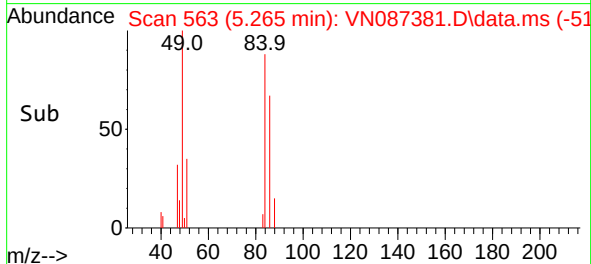
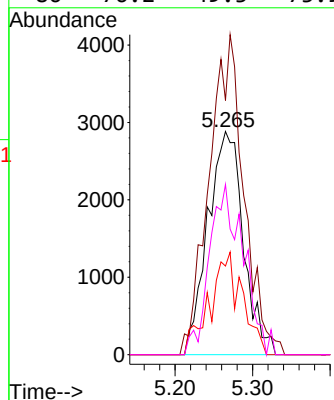
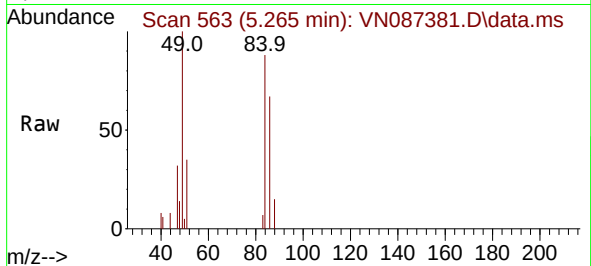




#20
Methylene Chloride
Concen: 4.730 ug/l
RT: 5.265 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087381.D
Acq: 21 Jul 2025 15:42

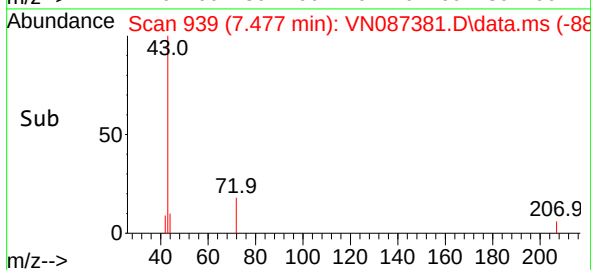
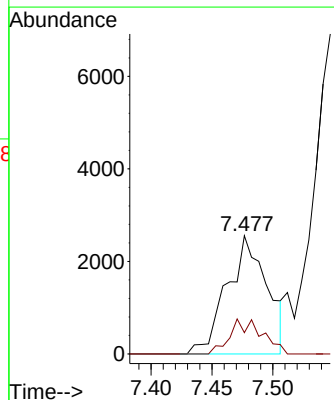
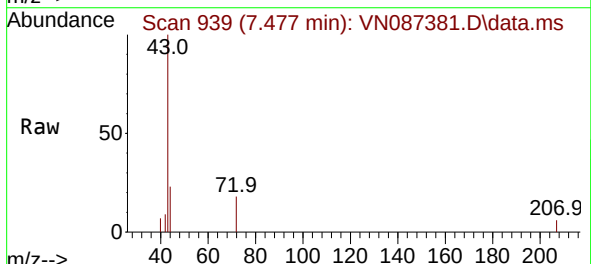
Instrument :
MSVOA_N
ClientSampleId :
WC-4

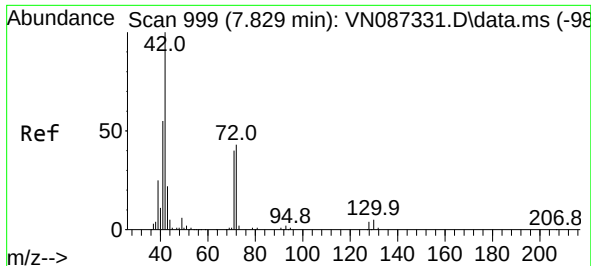
Tgt Ion: 84 Resp: 9213
Ion Ratio Lower Upper
84 100
49 113.9 107.5 161.3
51 39.7 30.2 45.2
86 76.2 49.3 73.9#



#25
2-Butanone
Concen: 3.677 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.006 min
Lab File: VN087381.D
Acq: 21 Jul 2025 15:42

Tgt Ion: 43 Resp: 5832
Ion Ratio Lower Upper
43 100
72 18.0 19.6 29.4#





#29

Tetrahydrofuran

Concen: 0.285 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.012 min

Lab File: VN087381.D

Acq: 21 Jul 2025 15:42

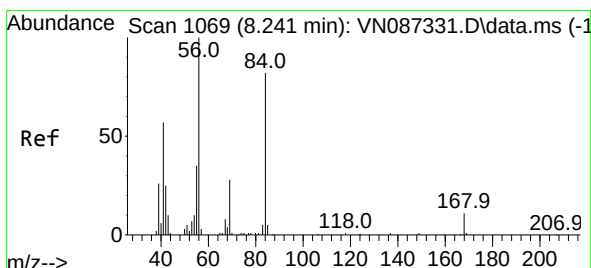
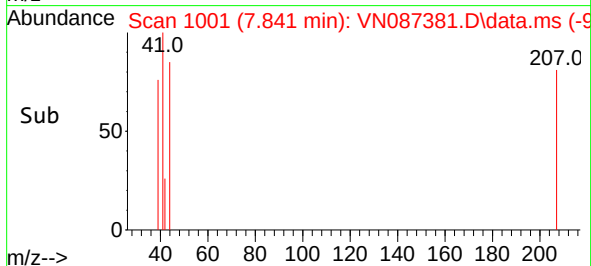
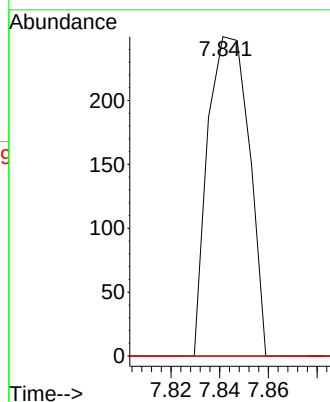
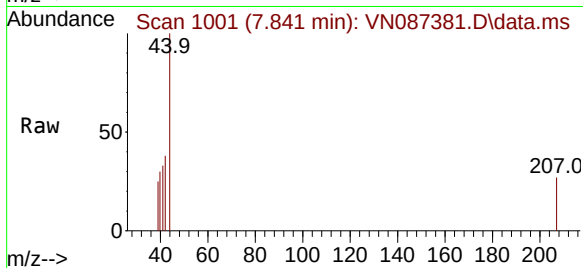
Instrument :

MSVOA_N

ClientSampleId :

WC-4

Tgt Ion:	42	Resp:	294
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.4	50.0#
71	0.0	31.2	46.8#



#31

Cyclohexane

Concen: 1.205 ug/l

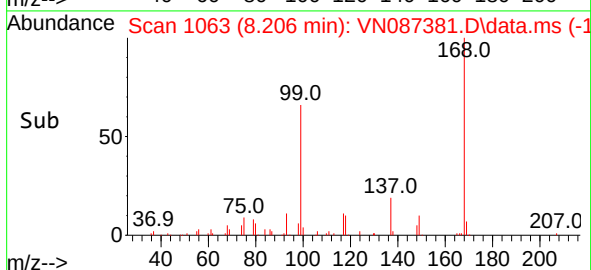
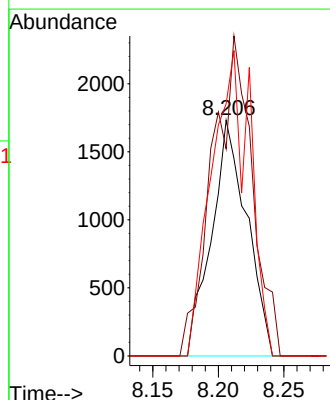
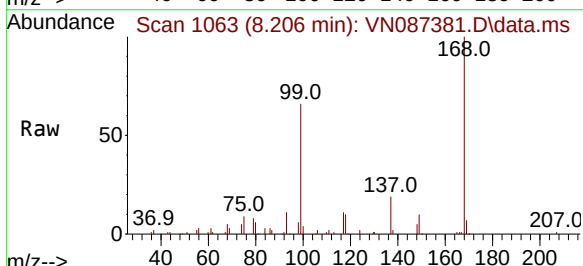
RT: 8.206 min Scan# 1063

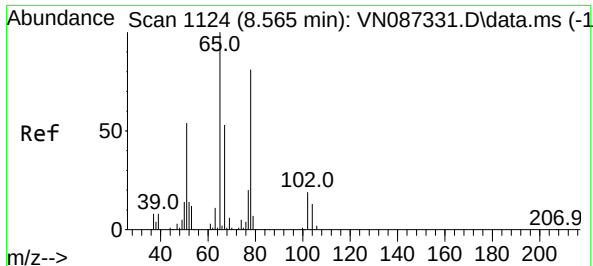
Delta R.T. -0.035 min

Lab File: VN087381.D

Acq: 21 Jul 2025 15:42

Tgt Ion:	56	Resp:	3243
Ion	Ratio	Lower	Upper
56	100		
69	87.9	22.7	34.1#
84	106.9	65.8	98.6#

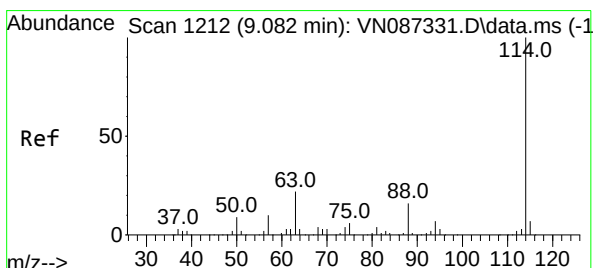
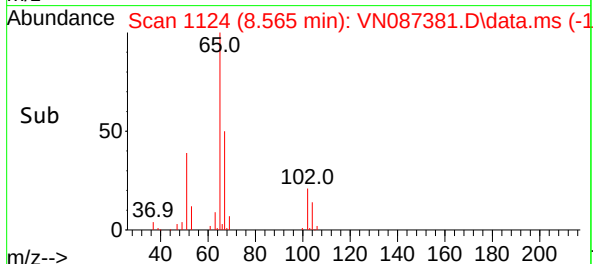
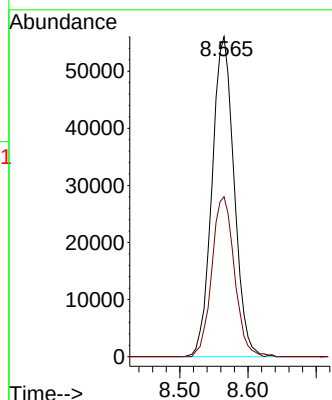
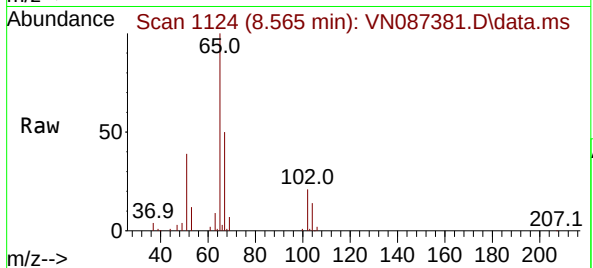




#33
1,2-Dichloroethane-d4
Concen: 57.839 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN087381.D
Acq: 21 Jul 2025 15:42

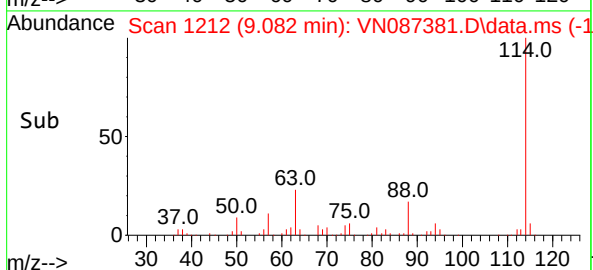
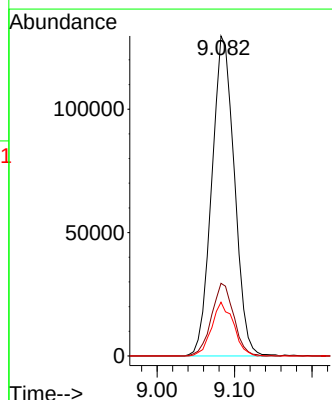
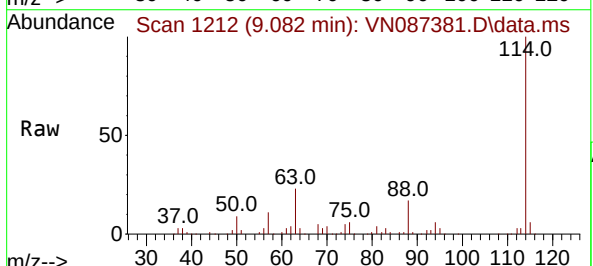
Instrument :
MSVOA_N
ClientSampleId :
WC-4

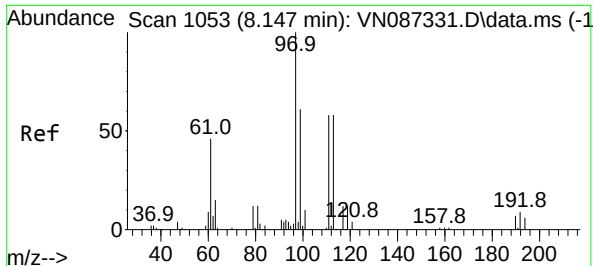
Tgt Ion: 65 Resp: 126628
Ion Ratio Lower Upper
65 100
67 50.9 0.0 104.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN087381.D
Acq: 21 Jul 2025 15:42

Tgt Ion: 114 Resp: 263202
Ion Ratio Lower Upper
114 100
63 22.7 0.0 44.6
88 16.8 0.0 32.8

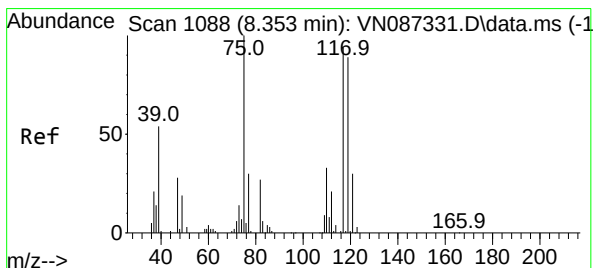
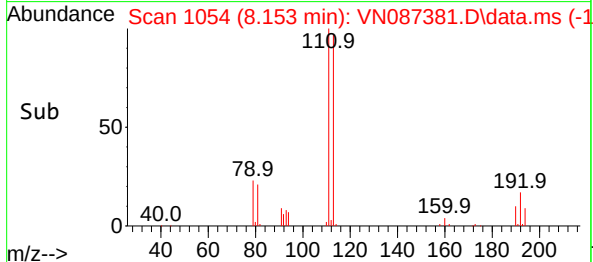
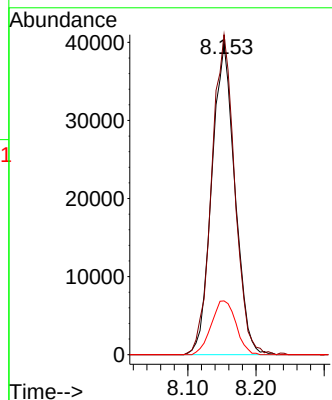
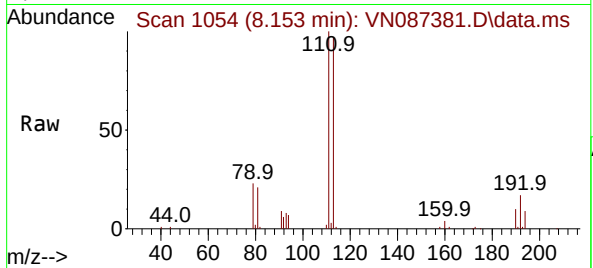




#35
Dibromofluoromethane
Concen: 51.751 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. 0.006 min
Lab File: VN087381.D
Acq: 21 Jul 2025 15:42

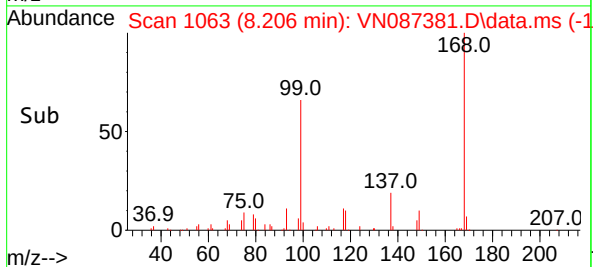
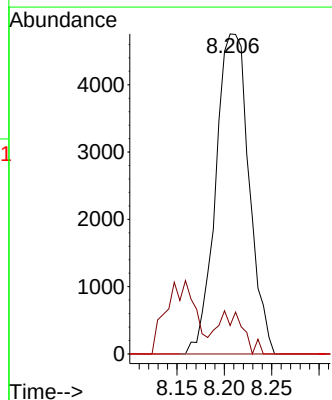
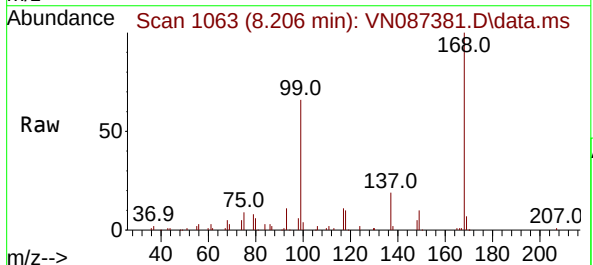
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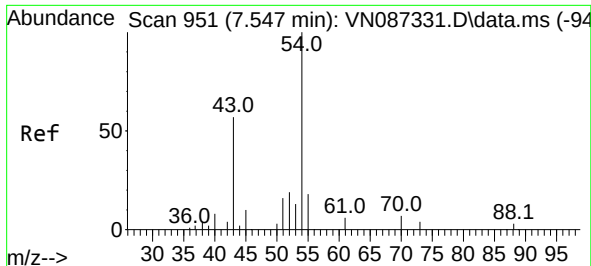
Tgt Ion:113 Resp: 93958
Ion Ratio Lower Upper
113 100
111 102.8 82.5 123.7
192 18.5 13.7 20.5



#36
1,1-Dichloropropene
Concen: 4.849 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.147 min
Lab File: VN087381.D
Acq: 21 Jul 2025 15:42

Tgt Ion: 75 Resp: 11631
Ion Ratio Lower Upper
75 100
110 10.3 16.7 50.1#
77 0.0 25.2 37.8#

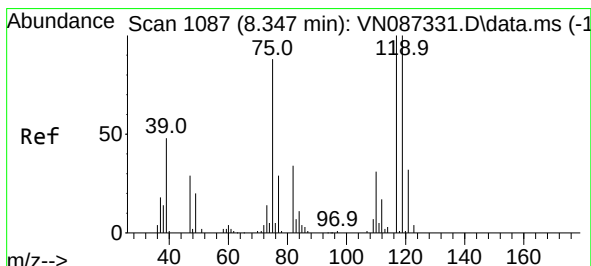
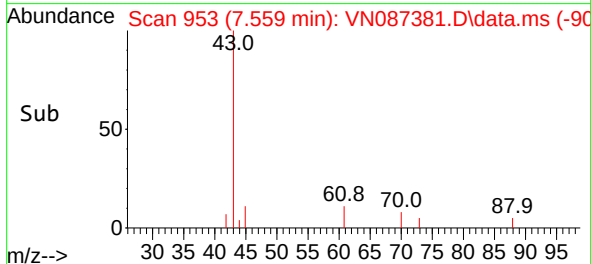
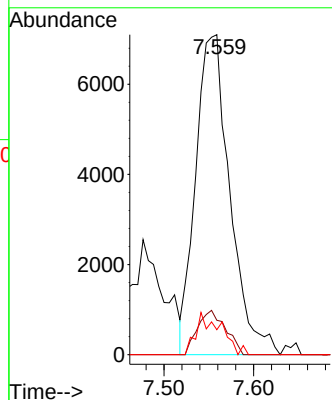
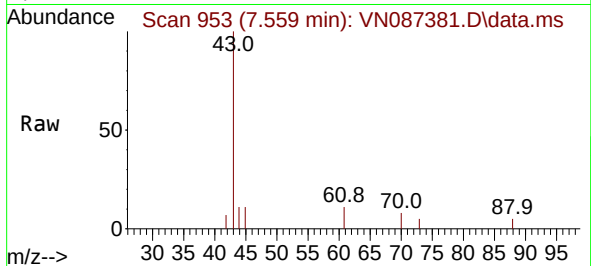




#37
Ethyl Acetate
Concen: 5.440 ug/l
RT: 7.559 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN087381.D
Acq: 21 Jul 2025 15:42

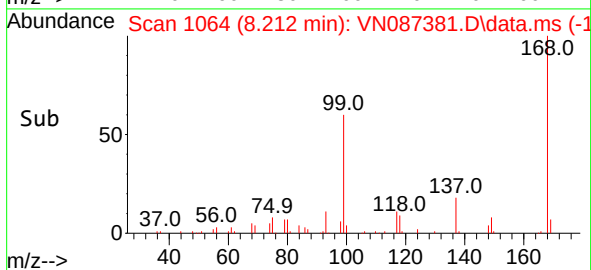
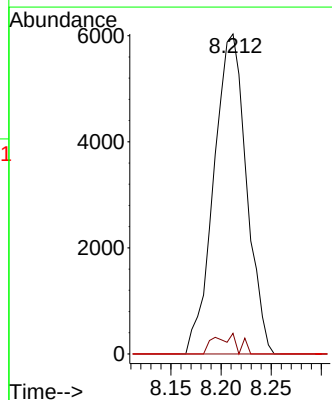
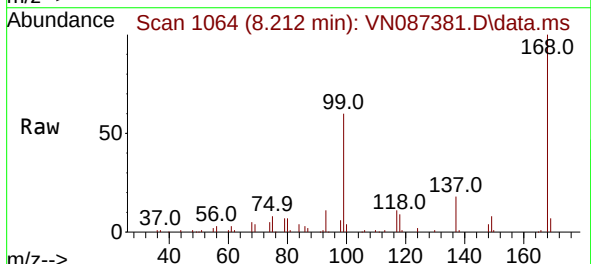
Instrument :
MSVOA_N
ClientSampleId :
WC-4

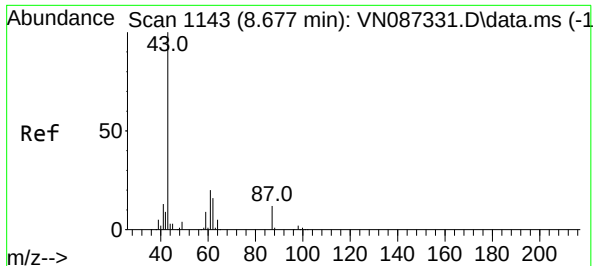
Tgt Ion:	43	Resp:	18847
Ion	Ratio	Lower	Upper
43	100		
61	11.3	10.9	16.3
70	9.6	7.4	11.0



#38
Carbon Tetrachloride
Concen: 5.173 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.135 min
Lab File: VN087381.D
Acq: 21 Jul 2025 15:42

Tgt Ion:	117	Resp:	13670
Ion	Ratio	Lower	Upper
117	100		
119	6.4	80.2	120.2#
121	0.0	25.4	38.2#





#43

Isopropyl Acetate

Concen: 2.323 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. -0.000 min

Lab File: VN087381.D

Acq: 21 Jul 2025 15:42

Instrument :

MSVOA_N

ClientSampleId :

WC-4

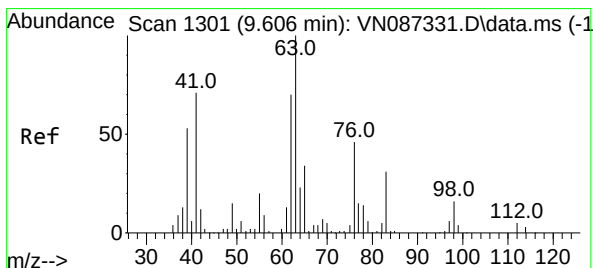
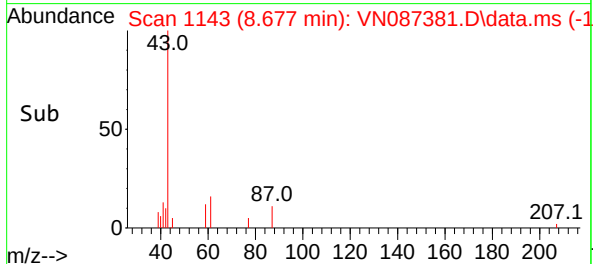
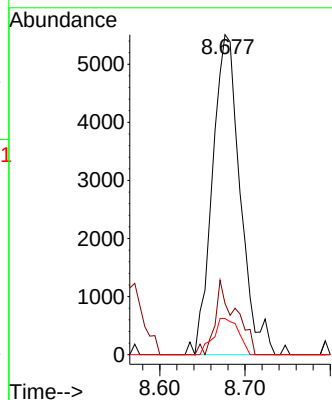
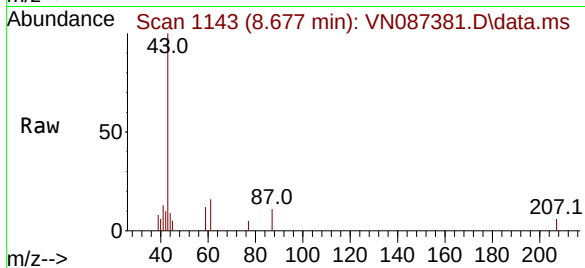
Tgt Ion: 43 Resp: 12491

Ion Ratio Lower Upper

43 100

61 17.4 19.8 29.8#

87 10.2 9.8 14.6



#45

1,2-Dichloropropane

Concen: 0.682 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.118 min

Lab File: VN087381.D

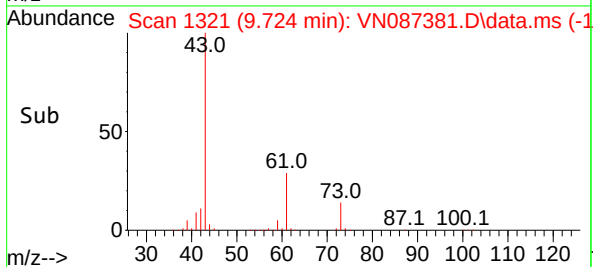
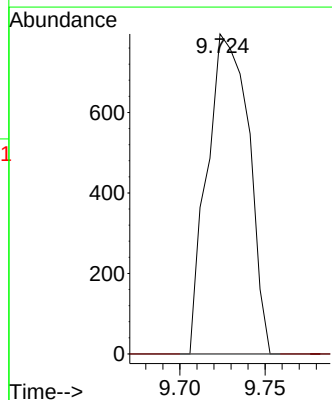
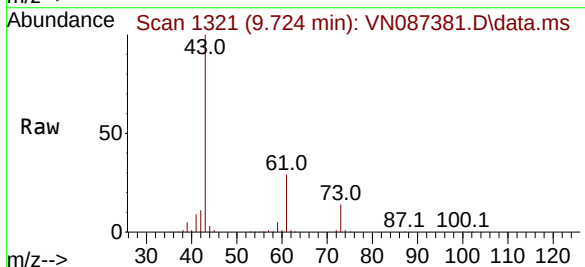
Acq: 21 Jul 2025 15:42

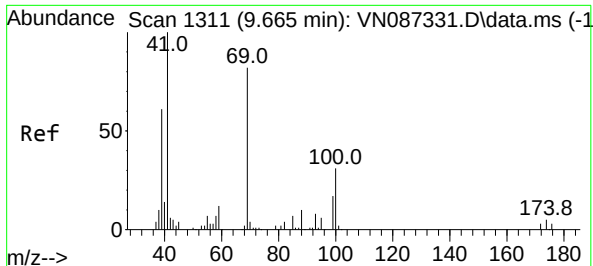
Tgt Ion: 63 Resp: 1344

Ion Ratio Lower Upper

63 100

65 0.0 27.0 40.4#





#48

Methyl methacrylate

Concen: 43.813 ug/l

RT: 9.729 min Scan# 1322

Delta R.T. 0.065 min

Lab File: VN087381.D

Acq: 21 Jul 2025 15:42

Instrument :

MSVOA_N

ClientSampleId :

WC-4

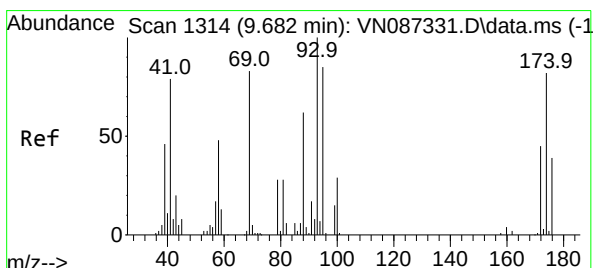
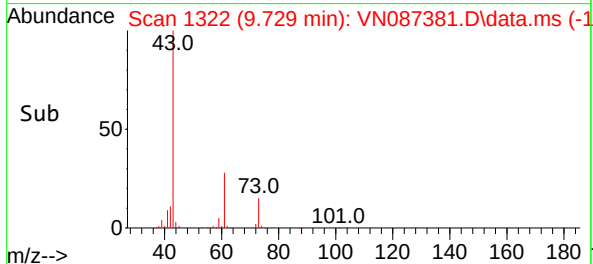
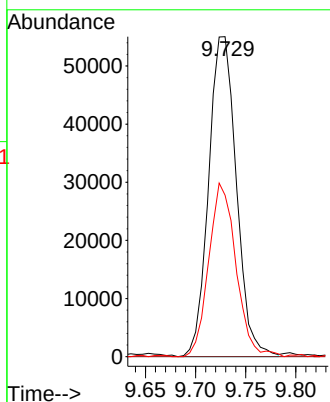
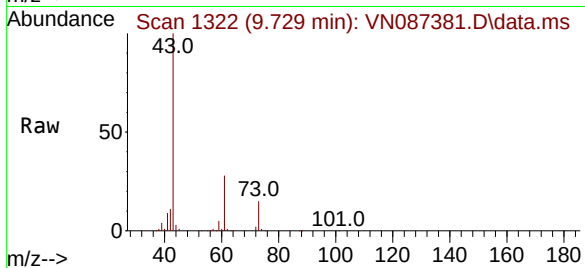
Tgt Ion: 41 Resp: 106070

Ion Ratio Lower Upper

41 100

69 0.0 64.1 96.1#

39 53.2 45.5 68.3



#49

1,4-Dioxane

Concen: 1.591 ug/l

RT: 9.729 min Scan# 1322

Delta R.T. 0.047 min

Lab File: VN087381.D

Acq: 21 Jul 2025 15:42

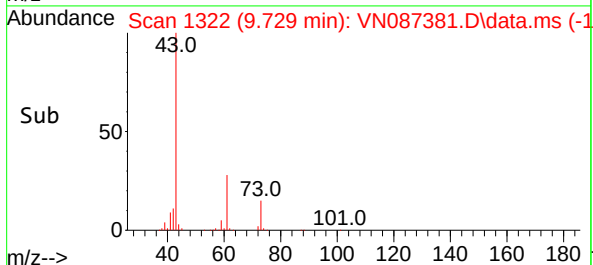
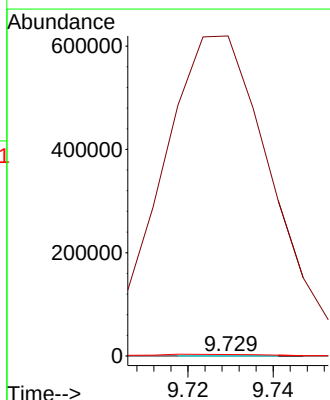
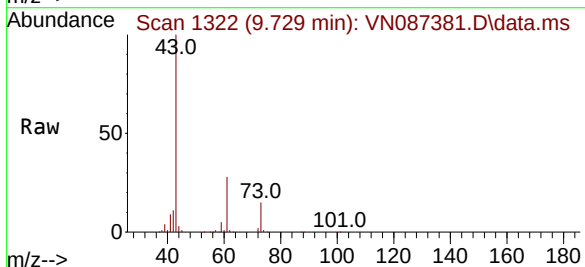
Tgt Ion: 88 Resp: 59

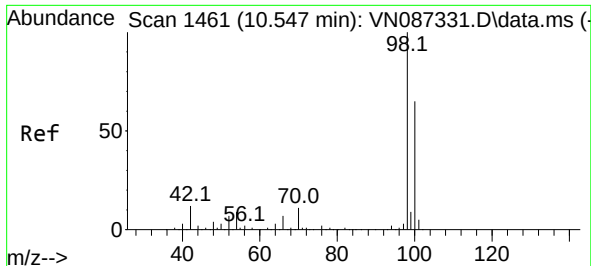
Ion Ratio Lower Upper

88 100

43 1963303.4 0.0 0.0#

58 10901.7 61.1 91.7#

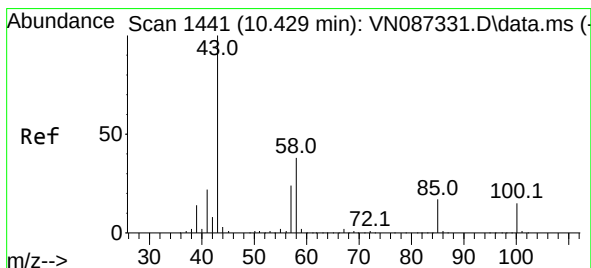
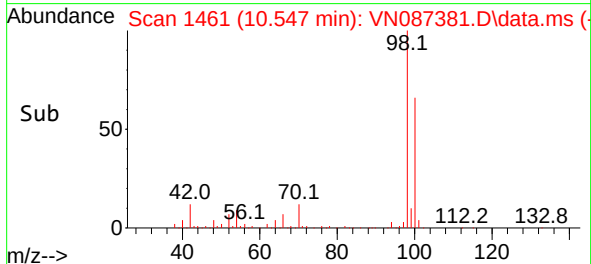
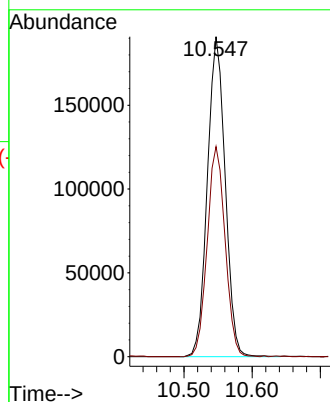
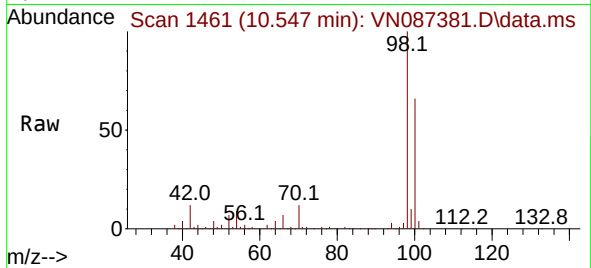




#50
Toluene-d8
Concen: 53.582 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087381.D
Acq: 21 Jul 2025 15:42

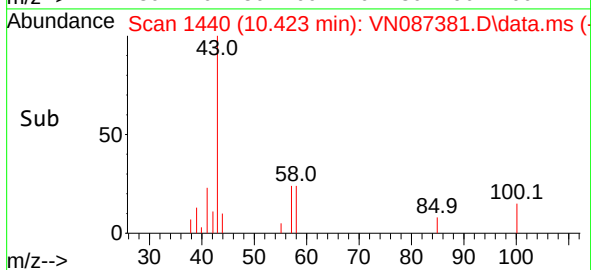
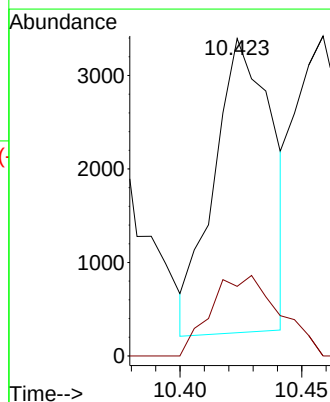
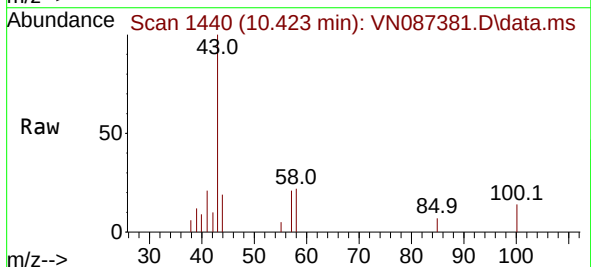
Instrument :
MSVOA_N
ClientSampleId :
WC-4

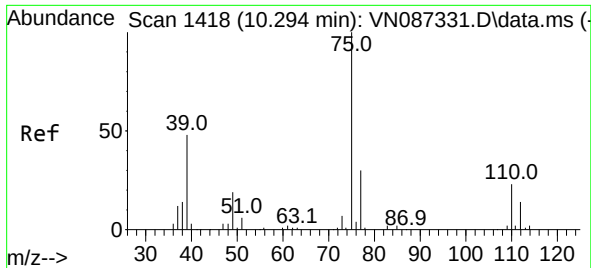
Tgt Ion: 98 Resp: 347013
Ion Ratio Lower Upper
98 100
100 65.9 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 1.538 ug/l
RT: 10.423 min Scan# 1440
Delta R.T. -0.006 min
Lab File: VN087381.D
Acq: 21 Jul 2025 15:42

Tgt Ion: 43 Resp: 5230
Ion Ratio Lower Upper
43 100
58 32.3 30.8 46.2

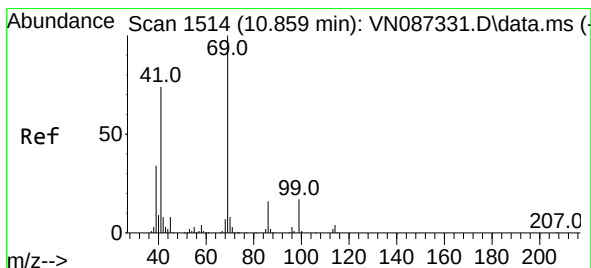
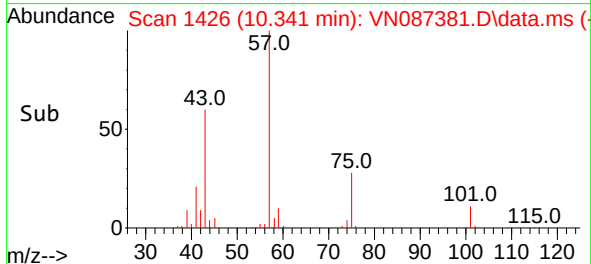
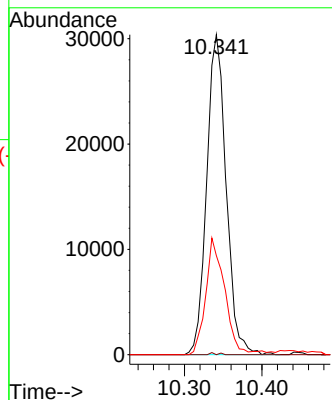
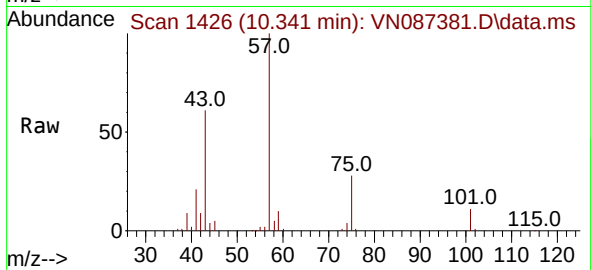




#54
 cis-1,3-Dichloropropene
 Concen: 17.079 ug/l
 RT: 10.341 min Scan# 1418
 Delta R.T. 0.047 min
 Lab File: VN087381.D
 Acq: 21 Jul 2025 15:42

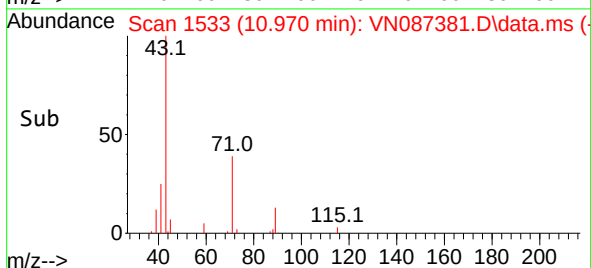
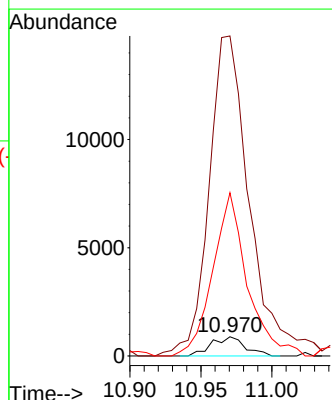
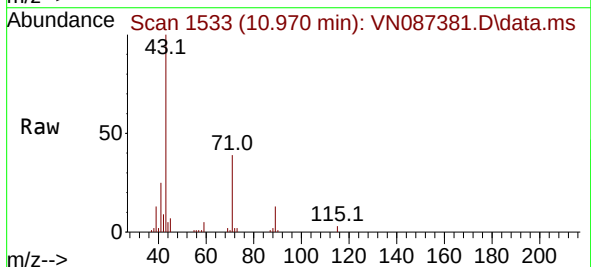
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-4

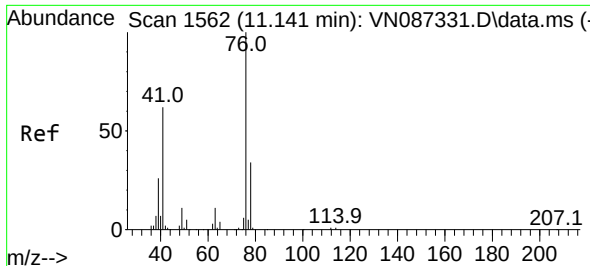
Tgt Ion: 75 Resp: 53040
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.2 36.2#
 39 31.0 38.4 57.6#



#56
 Ethyl methacrylate
 Concen: 1.097 ug/l
 RT: 10.970 min Scan# 1533
 Delta R.T. 0.111 min
 Lab File: VN087381.D
 Acq: 21 Jul 2025 15:42

Tgt Ion: 69 Resp: 1454
 Ion Ratio Lower Upper
 69 100
 41 2024.3 55.1 82.7#
 39 876.3 27.9 41.9#





#57

1,3-Dichloropropane

Concen: 1.089 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.047 min

Lab File: VN087381.D

Acq: 21 Jul 2025 15:42

Instrument :

MSVOA_N

ClientSampleId :

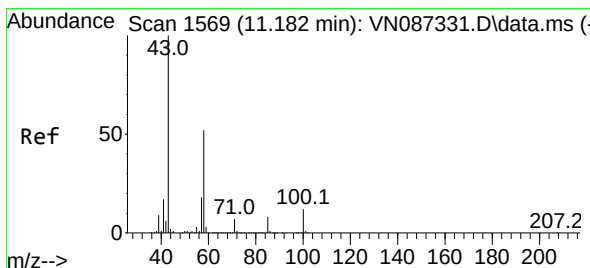
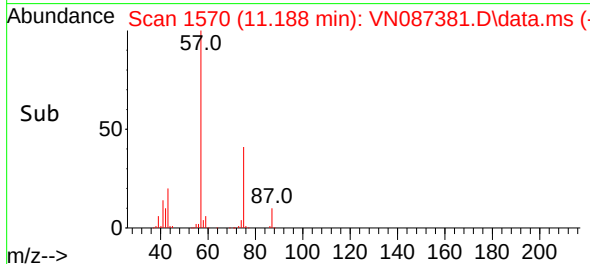
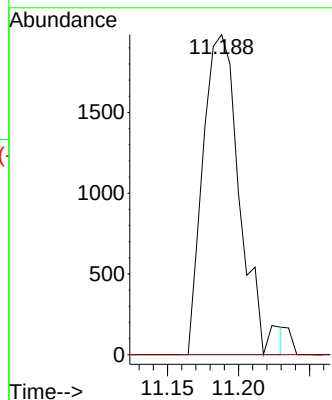
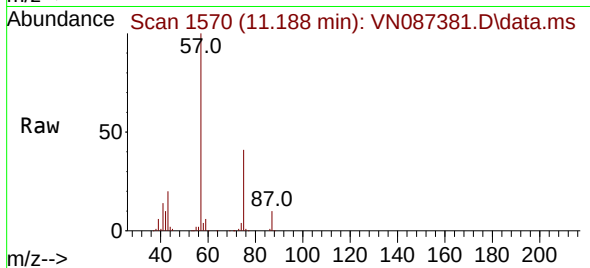
WC-4

Tgt Ion: 76 Resp: 3591

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



#59

2-Hexanone

Concen: 27.178 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.006 min

Lab File: VN087381.D

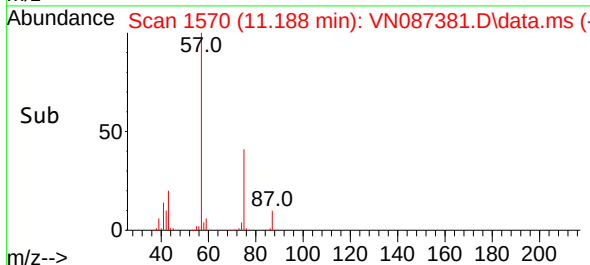
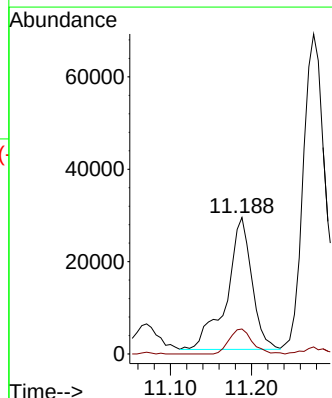
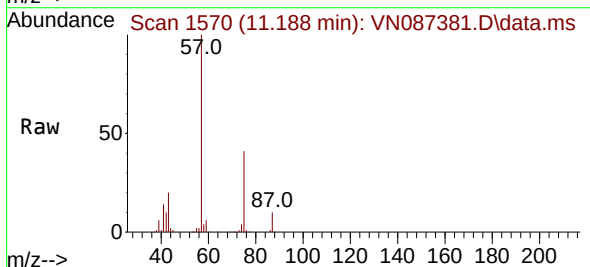
Acq: 21 Jul 2025 15:42

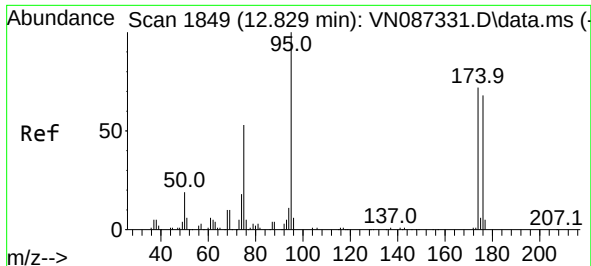
Tgt Ion: 43 Resp: 61331

Ion Ratio Lower Upper

43 100

58 17.4 26.7 80.0#

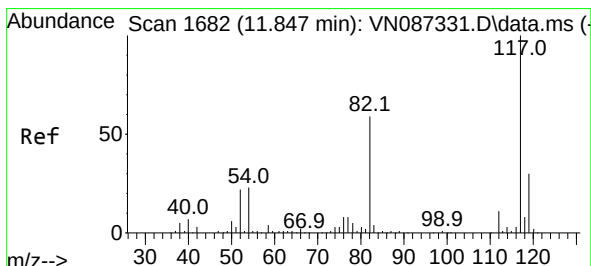
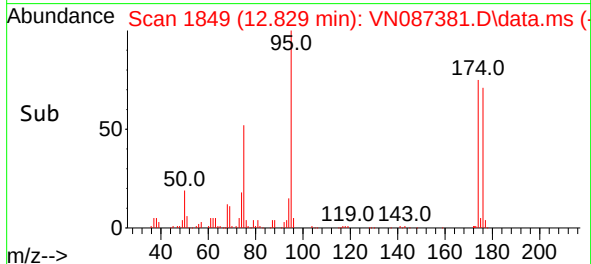
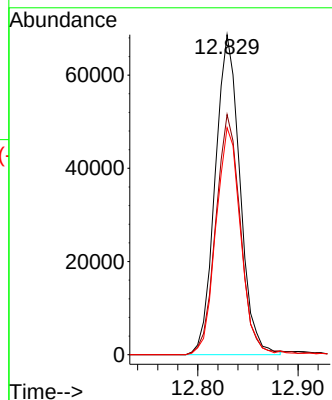
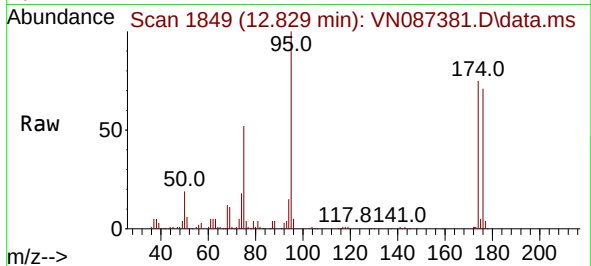




#62
4-Bromofluorobenzene
Concen: 49.271 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087381.D
Acq: 21 Jul 2025 15:42

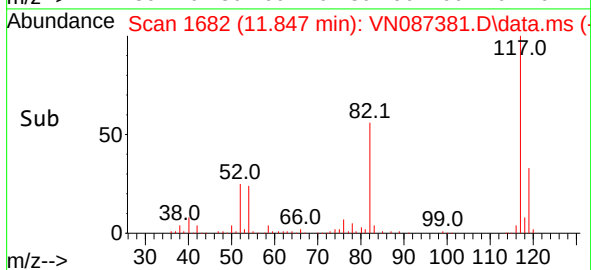
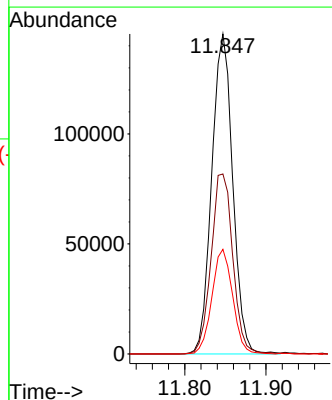
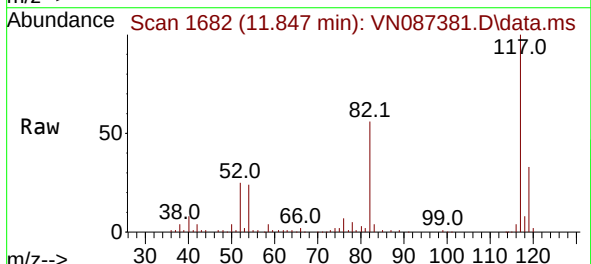
Instrument :
MSVOA_N
ClientSampleId :
WC-4

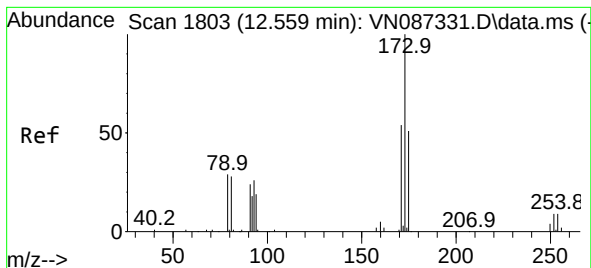
Tgt Ion: 95 Resp: 117891
Ion Ratio Lower Upper
95 100
174 75.5 0.0 149.4
176 71.6 0.0 141.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VN087381.D
Acq: 21 Jul 2025 15:42

Tgt Ion: 117 Resp: 260994
Ion Ratio Lower Upper
117 100
82 56.3 47.4 71.2
119 32.7 23.8 35.8





#71

Bromoform

Concen: 0.937 ug/l

RT: 12.829 min Scan# 1803

Delta R.T. 0.271 min

Lab File: VN087381.D

Acq: 21 Jul 2025 15:42

Instrument :

MSVOA_N

ClientSampleId :

WC-4

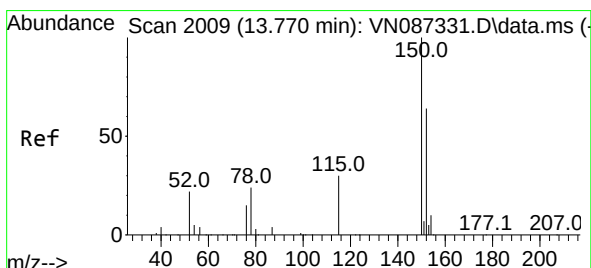
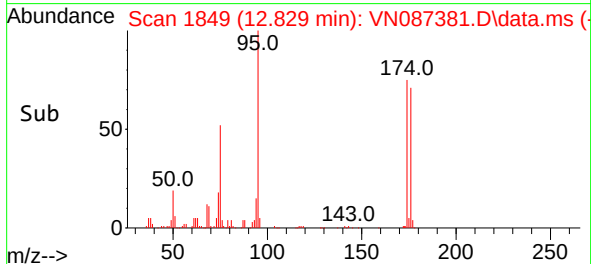
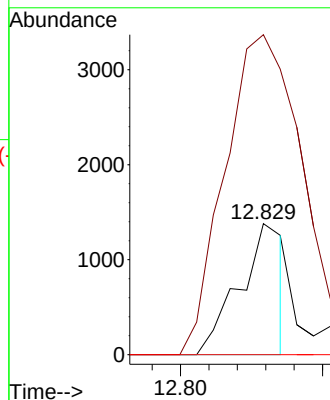
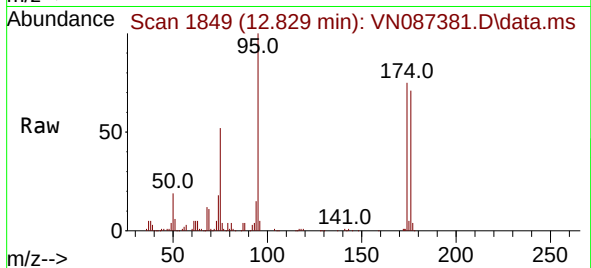
Tgt Ion:173 Resp: 1508

Ion Ratio Lower Upper

173 100

175 316.8 24.1 72.3#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VN087381.D

Acq: 21 Jul 2025 15:42

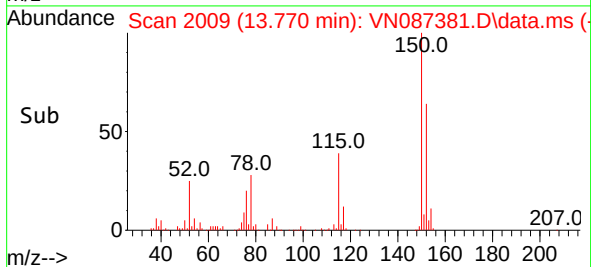
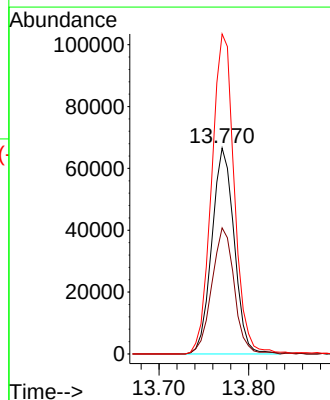
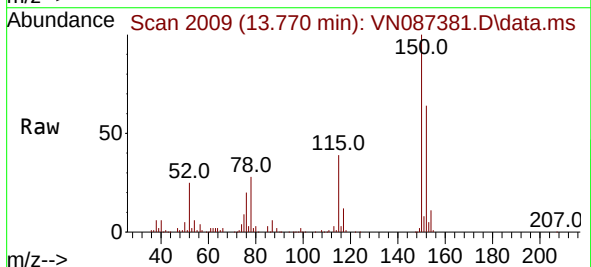
Tgt Ion:152 Resp: 115026

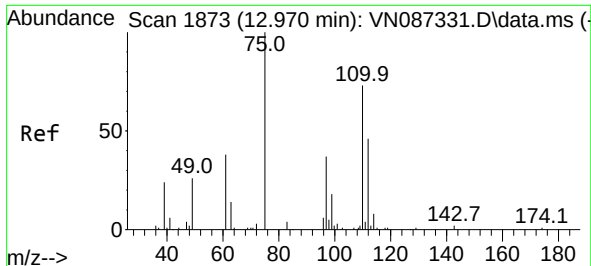
Ion Ratio Lower Upper

152 100

115 61.6 31.1 93.5

150 158.0 0.0 349.0

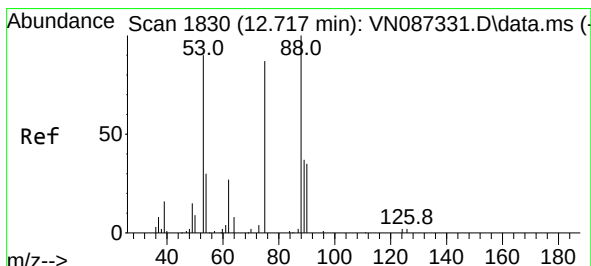
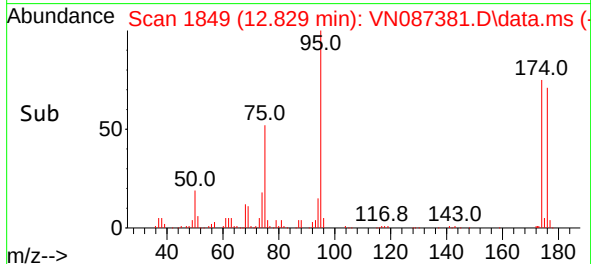
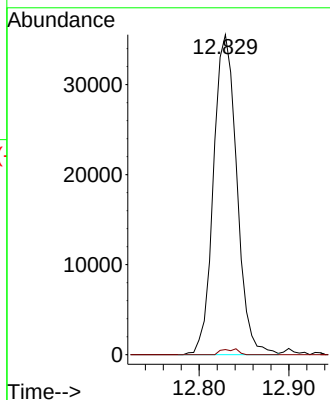
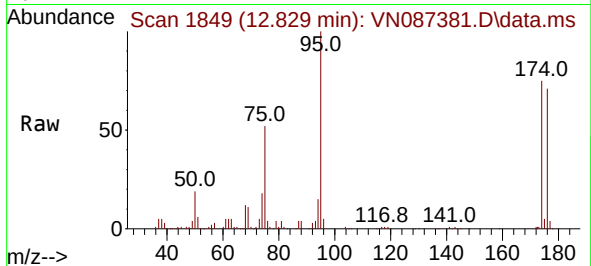




#76
 1,2,3-Trichloropropane
 Concen: 24.920 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN087381.D
 Acq: 21 Jul 2025 15:42

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-4

Tgt Ion: 75 Resp: 64278
 Ion Ratio Lower Upper
 75 100
 77 1.3 94.5 283.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.185 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.112 min
 Lab File: VN087381.D
 Acq: 21 Jul 2025 15:42

Tgt Ion: 75 Resp: 64278
 Ion Ratio Lower Upper
 75 100
 53 0.2 83.5 125.3#
 89 0.1 38.4 57.6#

