

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092625\
 Data File : VN087969.D
 Acq On : 26 Sep 2025 16:10
 Operator : JC\MD
 Sample : Q3181-09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-A3-03-G

Quant Time: Sep 27 01:27:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092325W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 05:05:30 2025
 Response via : Initial Calibration

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

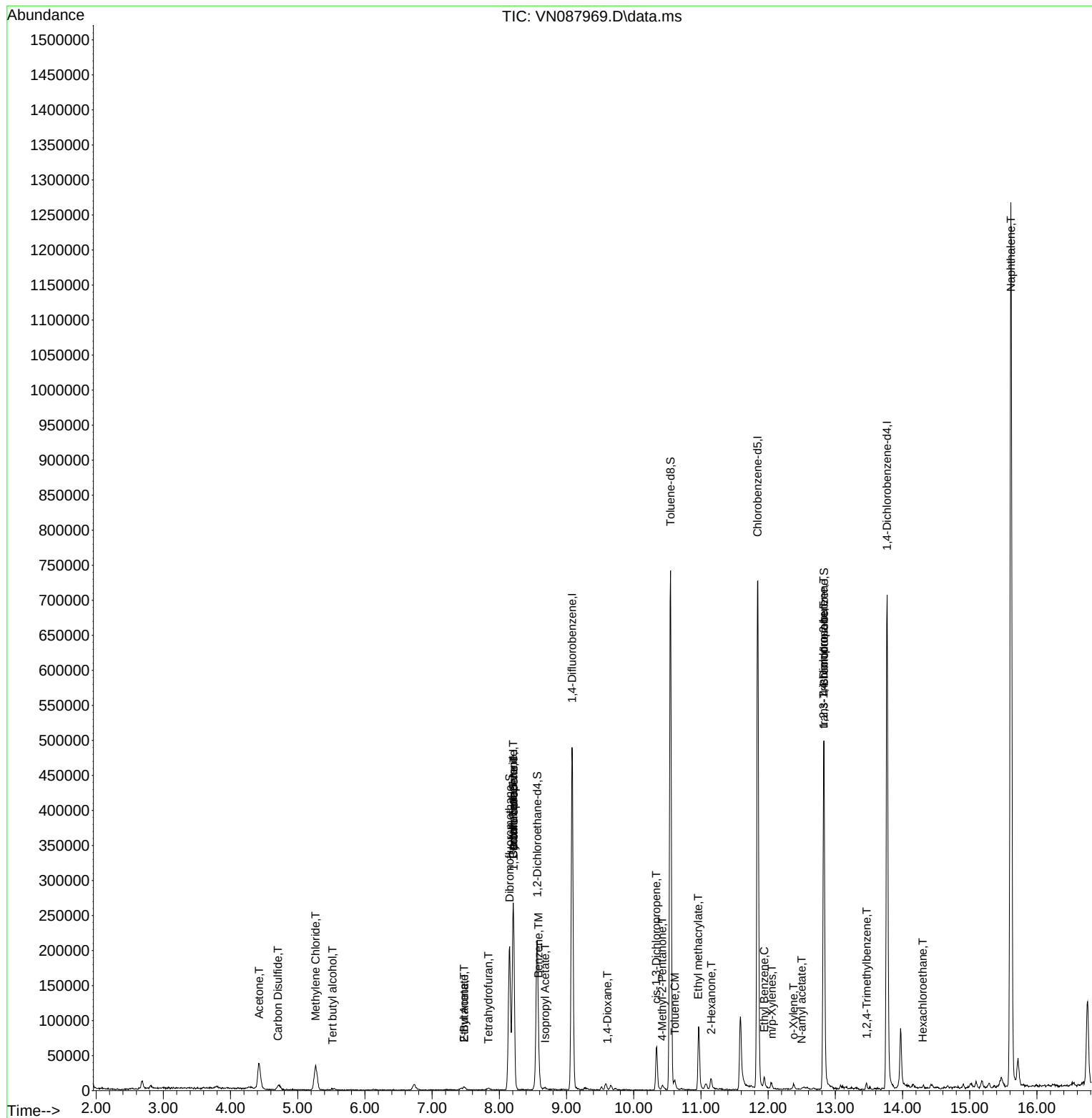
Internal Standards						
1) Pentafluorobenzene	8.206	168	184198	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	412130	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	421613	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	196969	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	177476	57.252	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 114.500%			
35) Dibromofluoromethane	8.153	113	144402	48.258	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.520%			
50) Toluene-d8	10.547	98	502673	47.770	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.540%			
62) 4-Bromofluorobenzene	12.829	95	170088	45.220	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 90.440%			
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.518	59	1747	3.913	ug/l	96
16) Acetone	4.424	43	69281	54.319	ug/l	94
17) Carbon Disulfide	4.706	76	2700	0.447	ug/l #	76
20) Methylene Chloride	5.265	84	27314	10.580	ug/l	94
25) 2-Butanone	7.477	43	7034	3.608	ug/l	94
29) Tetrahydrofuran	7.836	42	2193	1.757	ug/l #	69
31) Cyclohexane	8.206	56	5573	1.603	ug/l #	45
36) 1,1-Dichloropropene	8.212	75	16777	4.663	ug/l #	47
37) Ethyl Acetate	7.477	43	7034	1.489	ug/l #	73
38) Carbon Tetrachloride	8.206	117	22993	5.569	ug/l #	17
40) Benzene	8.583	78	15182	1.274	ug/l	96
43) Isopropyl Acetate	8.683	43	2953	0.397	ug/l #	80
49) 1,4-Dioxane	9.606	88	63	1.238	ug/l #	1
51) 4-Methyl-2-Pentanone	10.424	43	6743	1.453	ug/l #	84
52) Toluene	10.612	92	5181	0.693	ug/l	84
54) cis-1,3-Dichloropropene	10.335	75	11296	2.298	ug/l #	62
56) Ethyl methacrylate	10.959	69	1290	0.294	ug/l #	1
59) 2-Hexanone	11.153	43	12553	4.091	ug/l #	25
67) Ethyl Benzene	11.941	91	8817	0.589	ug/l	94
68) m/p-Xylenes	12.053	106	2935	0.513	ug/l #	70
69) o-Xylene	12.376	106	2006	0.365	ug/l	85
74) N-amyl acetate	12.500	43	1059	0.263	ug/l #	64
76) 1,2,3-Trichloropropane	12.824	75	95346	24.557	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.824	75	95346	68.190	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.465	105	4949	0.457	ug/l	83
90) Hexachloroethane	14.300	117	628	0.271	ug/l #	16
95) Naphthalene	15.612	128	1140310	98.477	ug/l	99

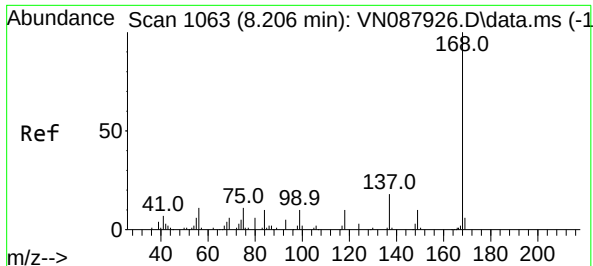
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092625\
Data File : VN087969.D
Acq On : 26 Sep 2025 16:10
Operator : JC\MD
Sample : Q3181-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
WC-A3-03-G

Quant Time: Sep 27 01:27:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092325W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 05:05:30 2025
Response via : Initial Calibration

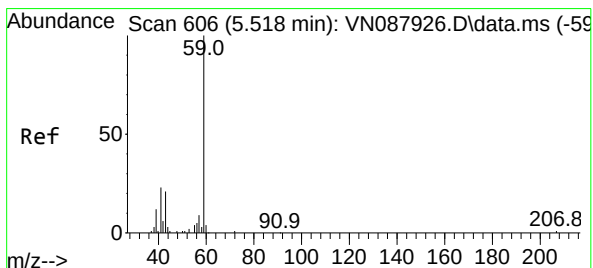
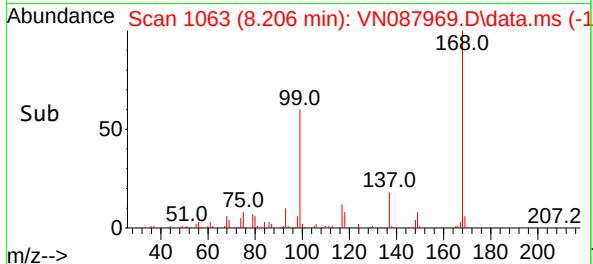
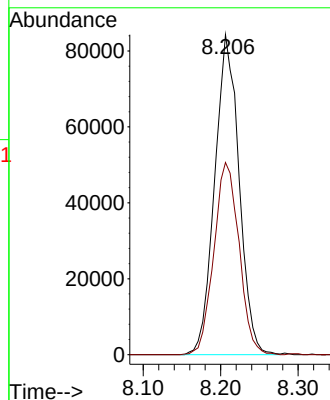
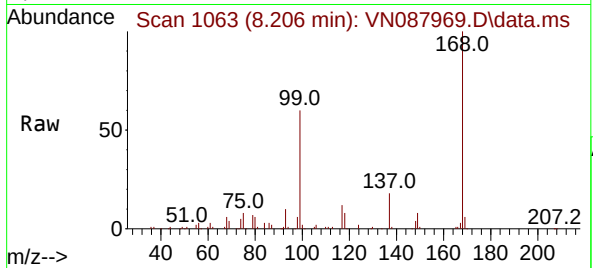




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087969.D
Acq: 26 Sep 2025 16:10

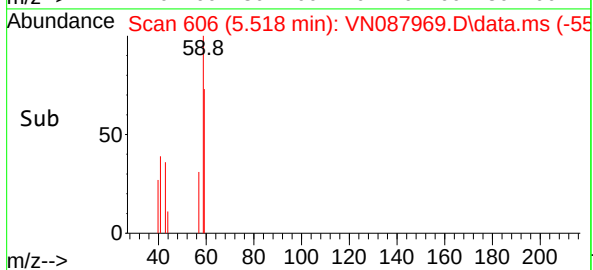
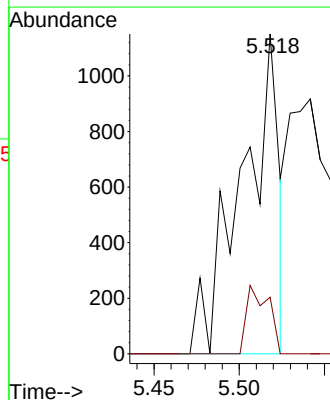
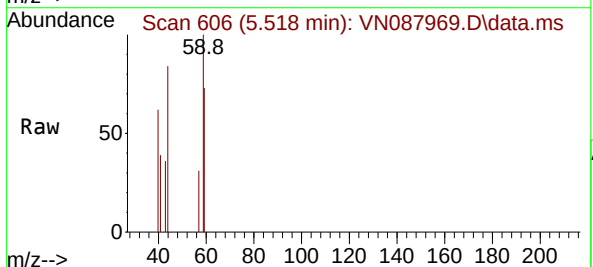
Instrument :
MSVOA_N
ClientSampleId :
WC-A3-03-G

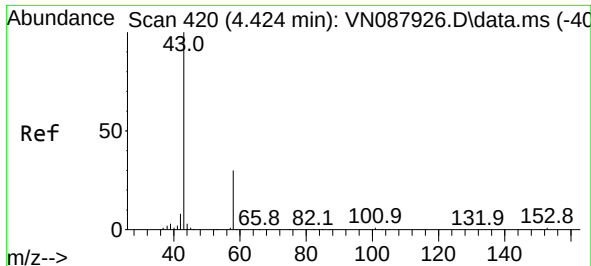
Tgt Ion:168 Resp: 184198
Ion Ratio Lower Upper
168 100
99 60.1 52.2 78.2



#11
Tert butyl alcohol
Concen: 3.913 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN087969.D
Acq: 26 Sep 2025 16:10

Tgt Ion: 59 Resp: 1747
Ion Ratio Lower Upper
59 100
57 12.6 8.8 13.2





#16

Acetone

Concen: 54.319 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN087969.D

Acq: 26 Sep 2025 16:10

Instrument :

MSVOA_N

ClientSampleId :

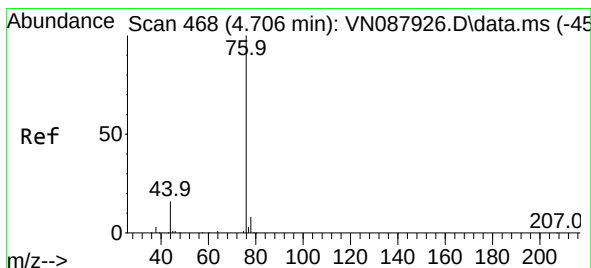
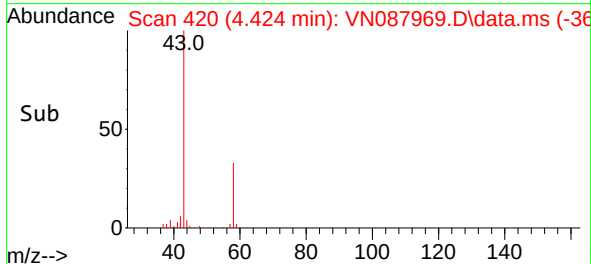
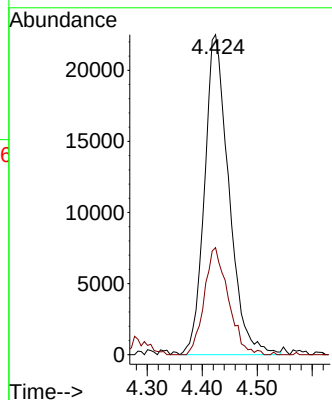
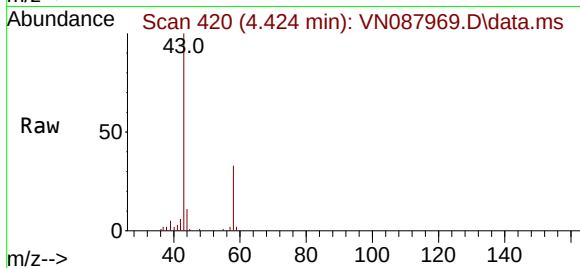
WC-A3-03-G

Tgt Ion: 43 Resp: 69281

Ion Ratio Lower Upper

43 100

58 33.5 24.1 36.1



#17

Carbon Disulfide

Concen: 0.447 ug/l

RT: 4.706 min Scan# 468

Delta R.T. 0.000 min

Lab File: VN087969.D

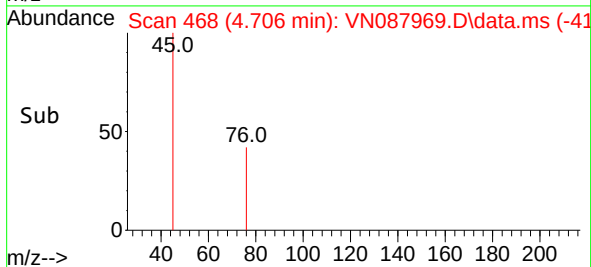
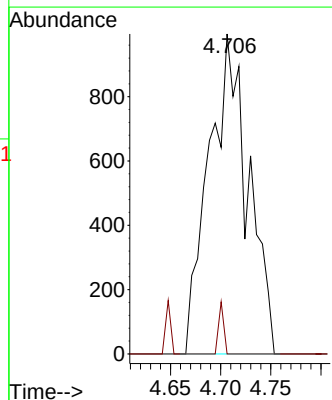
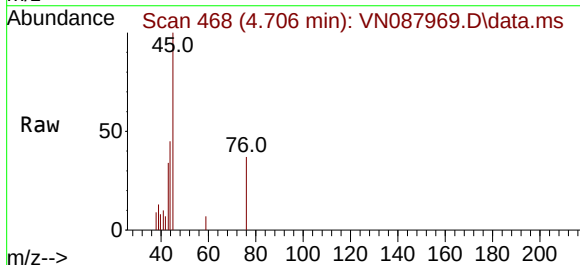
Acq: 26 Sep 2025 16:10

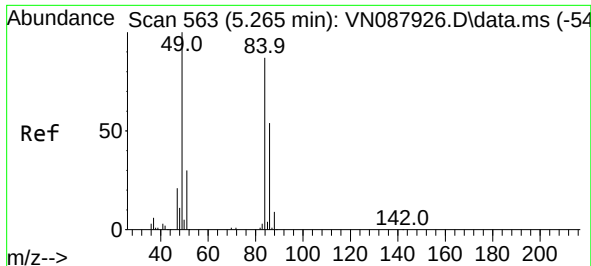
Tgt Ion: 76 Resp: 2700

Ion Ratio Lower Upper

76 100

78 0.0 6.7 10.1#

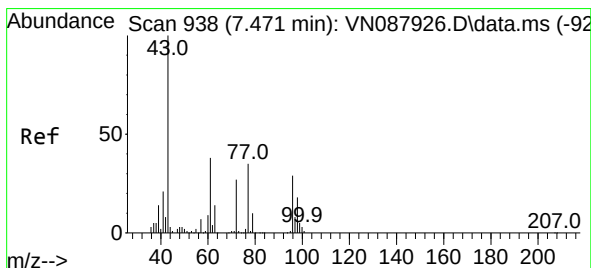
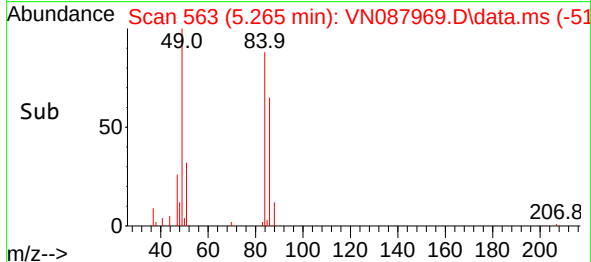
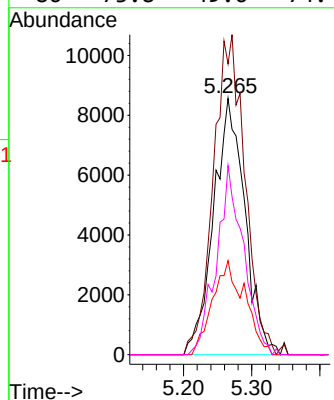
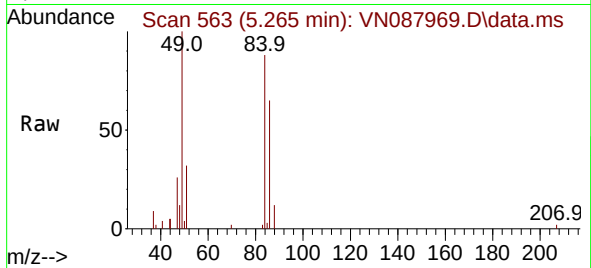




#20
Methylene Chloride
Concen: 10.580 ug/l
RT: 5.265 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN087969.D
Acq: 26 Sep 2025 16:10

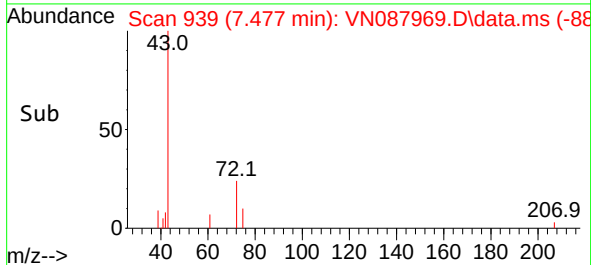
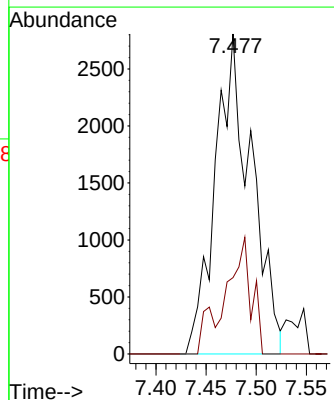
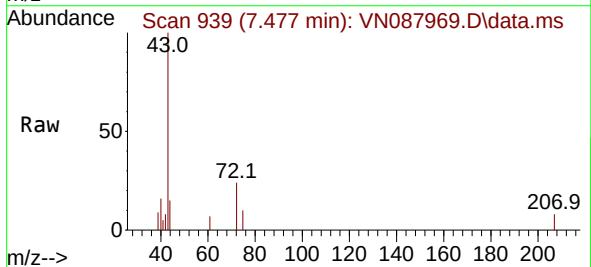
Instrument :
MSVOA_N
ClientSampleId :
WC-A3-03-G

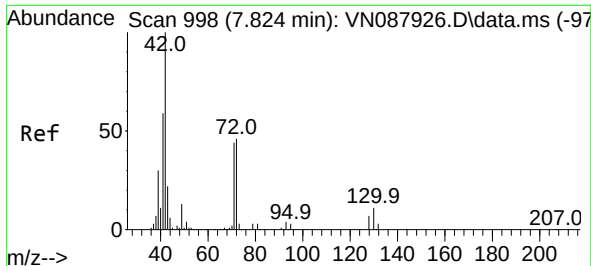
Tgt Ion:	84	Resp:	27314
Ion	Ratio	Lower	Upper
84	100		
49	113.4	92.1	138.1
51	36.7	27.7	41.5
86	73.8	49.6	74.4



#25
2-Butanone
Concen: 3.608 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.006 min
Lab File: VN087969.D
Acq: 26 Sep 2025 16:10

Tgt Ion:	43	Resp:	7034
Ion	Ratio	Lower	Upper
43	100		
72	23.9	21.5	32.3





#29

Tetrahydrofuran

Concen: 1.757 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.012 min

Lab File: VN087969.D

Acq: 26 Sep 2025 16:10

Instrument :

MSVOA_N

ClientSampleId :

WC-A3-03-G

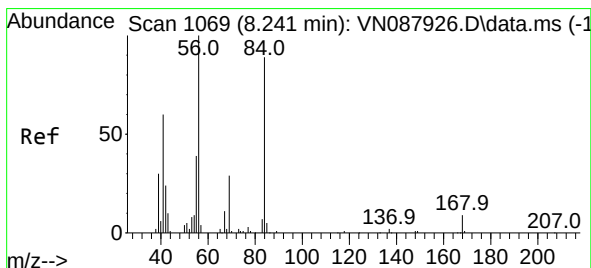
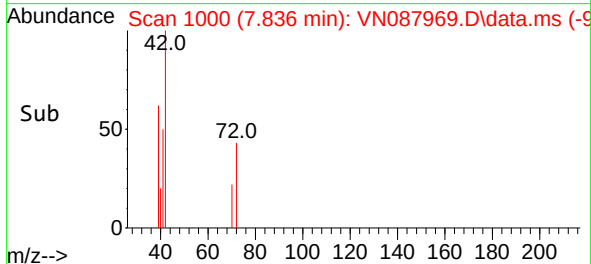
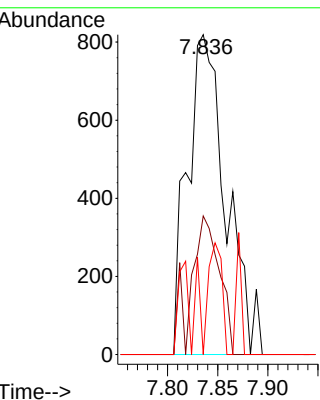
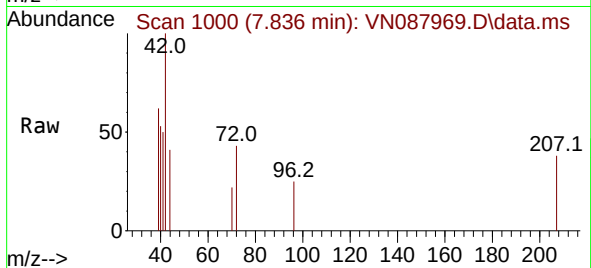
Tgt Ion: 42 Resp: 2193

Ion Ratio Lower Upper

42 100

72 32.0 36.5 54.7#

71 16.2 33.8 50.8#



#31

Cyclohexane

Concen: 1.603 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.035 min

Lab File: VN087969.D

Acq: 26 Sep 2025 16:10

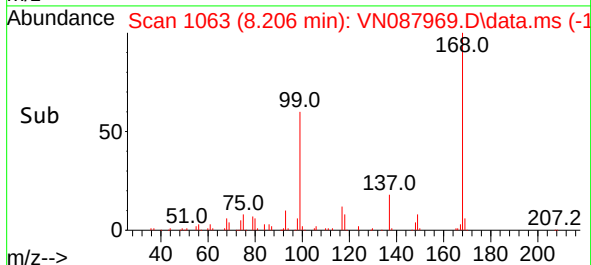
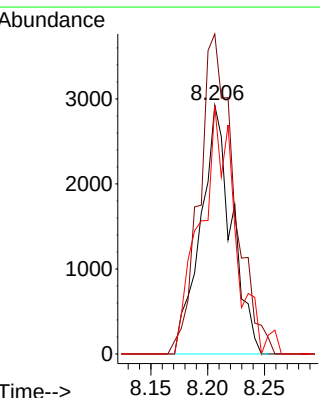
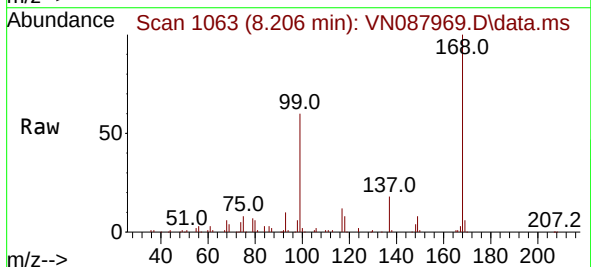
Tgt Ion: 56 Resp: 5573

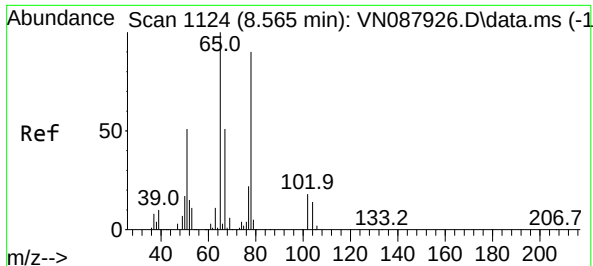
Ion Ratio Lower Upper

56 100

69 128.6 23.4 35.0#

84 99.9 70.8 106.2

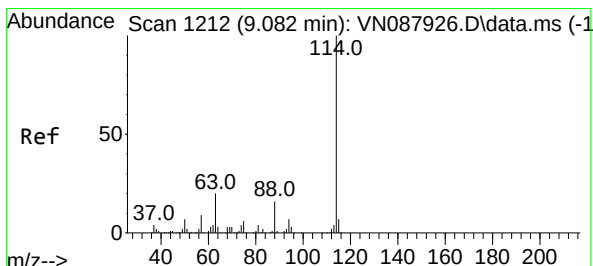
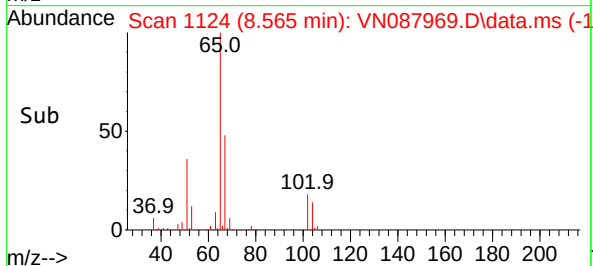
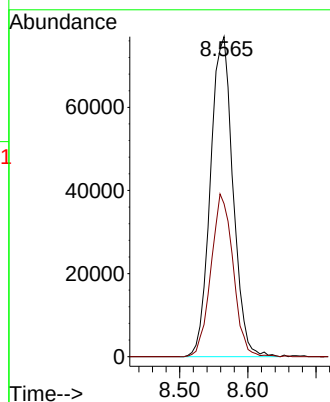
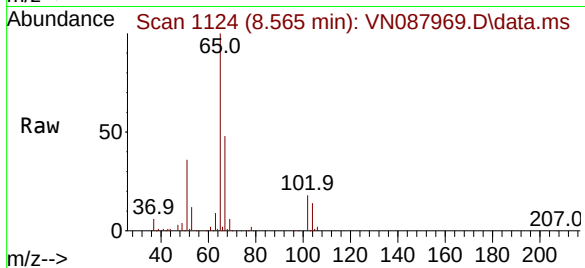




#33
1,2-Dichloroethane-d4
Concen: 57.252 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN087969.D
Acq: 26 Sep 2025 16:10

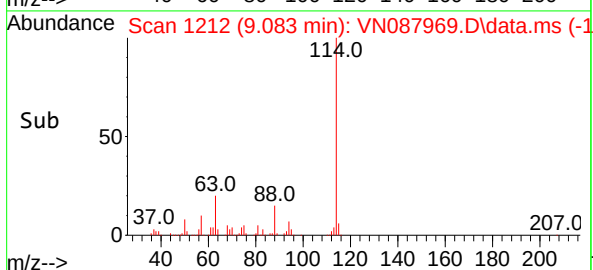
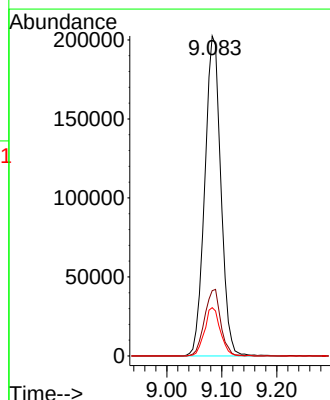
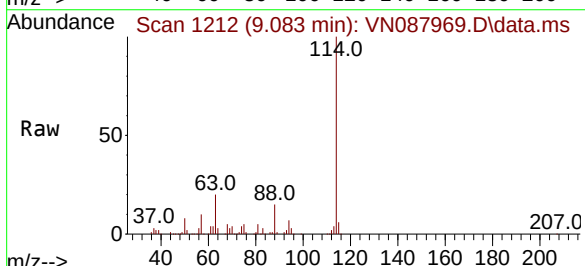
Instrument :
MSVOA_N
ClientSampleId :
WC-A3-03-G

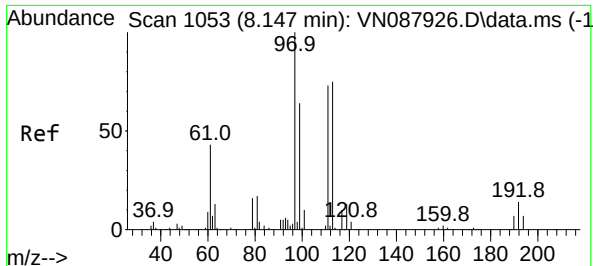
Tgt Ion: 65 Resp: 177476
Ion Ratio Lower Upper
65 100
67 49.9 0.0 103.4



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.083 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN087969.D
Acq: 26 Sep 2025 16:10

Tgt Ion: 114 Resp: 412130
Ion Ratio Lower Upper
114 100
63 20.4 0.0 40.0
88 15.1 0.0 31.8





#35

Dibromofluoromethane

Concen: 48.258 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087969.D

Acq: 26 Sep 2025 16:10

Instrument :

MSVOA_N

ClientSampleId :

WC-A3-03-G

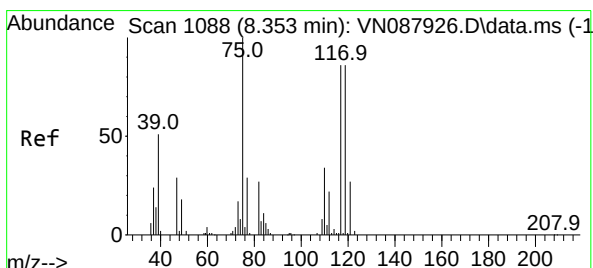
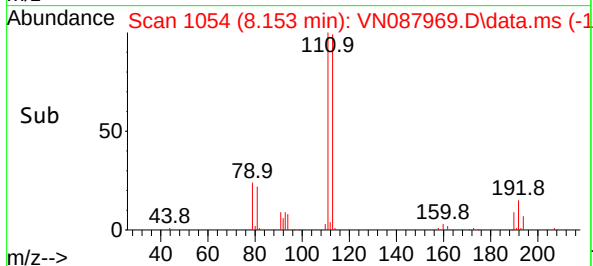
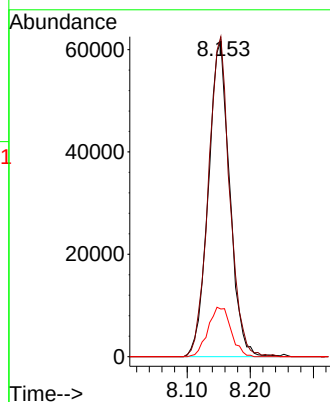
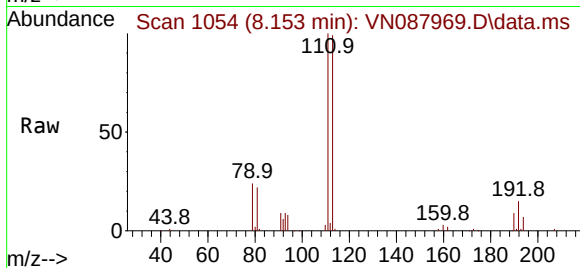
Tgt Ion:113 Resp: 144402

Ion Ratio Lower Upper

113 100

111 101.6 82.2 123.2

192 16.8 14.2 21.2



#36

1,1-Dichloropropene

Concen: 4.663 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.141 min

Lab File: VN087969.D

Acq: 26 Sep 2025 16:10

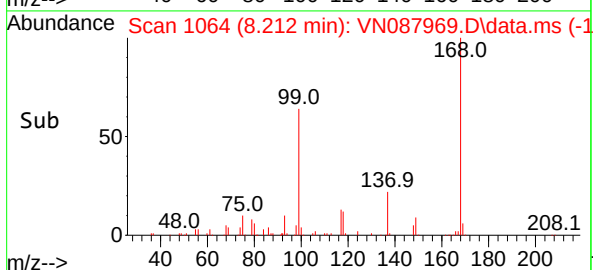
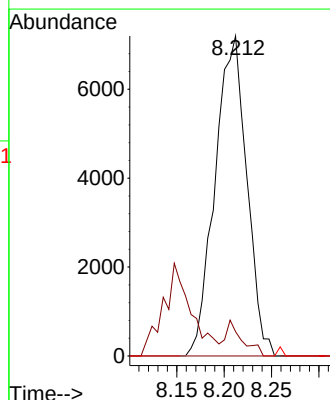
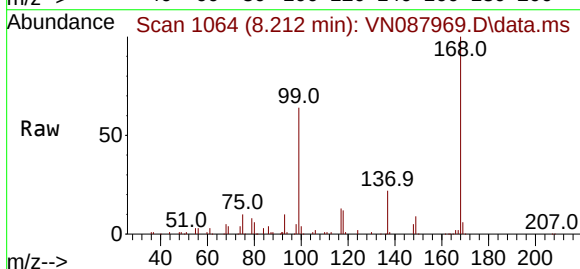
Tgt Ion: 75 Resp: 16777

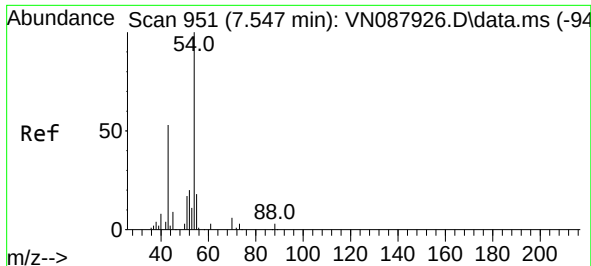
Ion Ratio Lower Upper

75 100

110 5.8 17.1 51.3#

77 0.0 24.8 37.2#





#37

Ethyl Acetate

Concen: 1.489 ug/l

RT: 7.477 min Scan# 91

Delta R.T. -0.070 min

Lab File: VN087969.D

Acq: 26 Sep 2025 16:10

Instrument :

MSVOA_N

ClientSampleId :

WC-A3-03-G

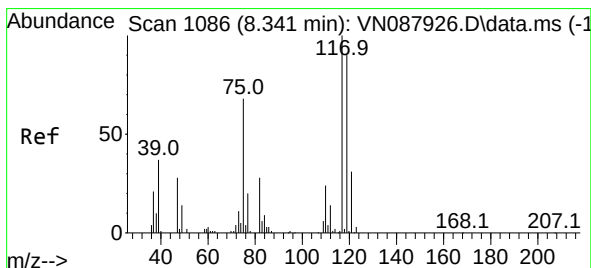
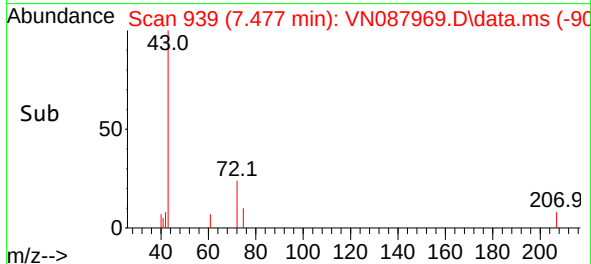
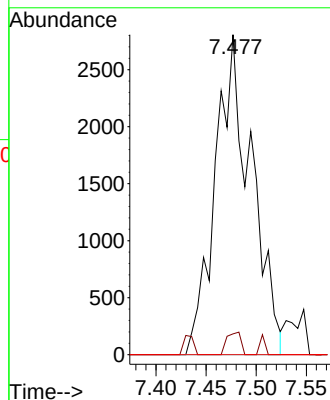
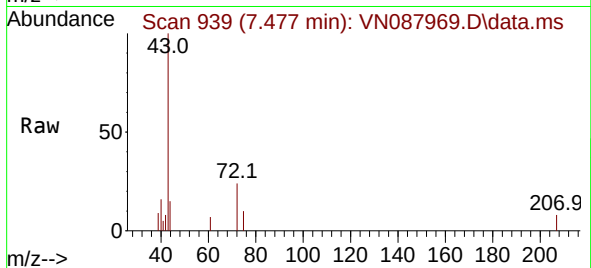
Tgt Ion: 43 Resp: 7034

Ion Ratio Lower Upper

43 100

61 2.7 10.7 16.1#

70 0.0 7.8 11.8#



#38

Carbon Tetrachloride

Concen: 5.569 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.135 min

Lab File: VN087969.D

Acq: 26 Sep 2025 16:10

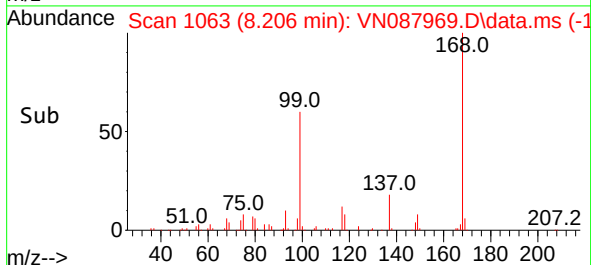
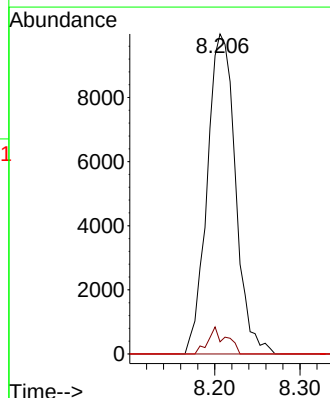
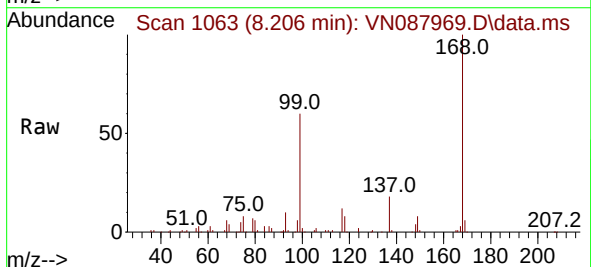
Tgt Ion: 117 Resp: 22993

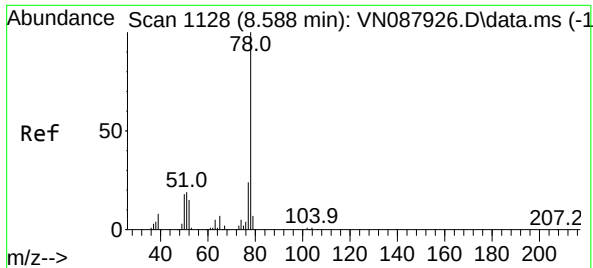
Ion Ratio Lower Upper

117 100

119 3.8 72.1 108.1#

121 0.0 24.6 36.8#

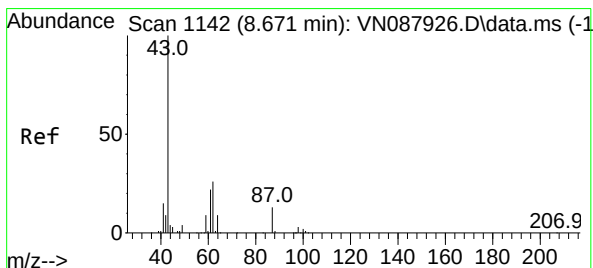
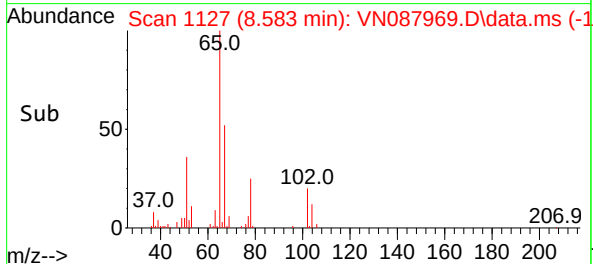
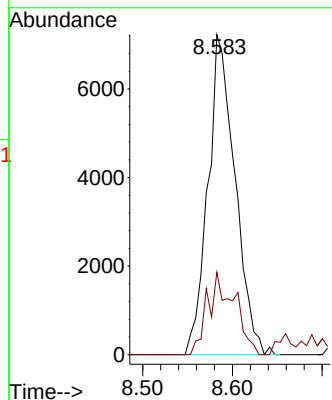
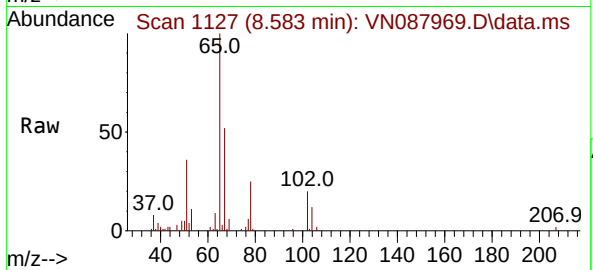




#40
Benzene
Concen: 1.274 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087969.D
Acq: 26 Sep 2025 16:10

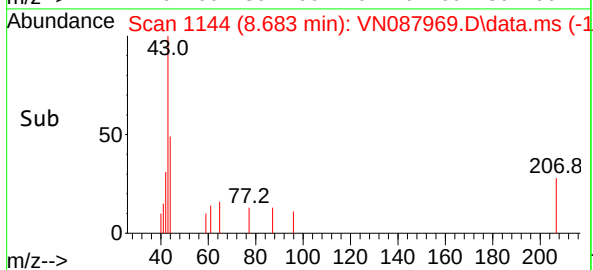
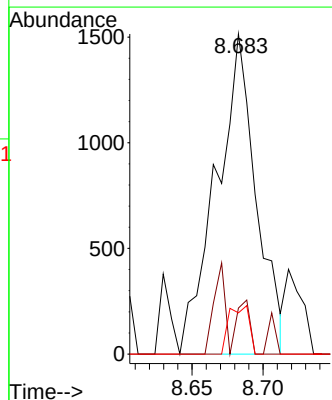
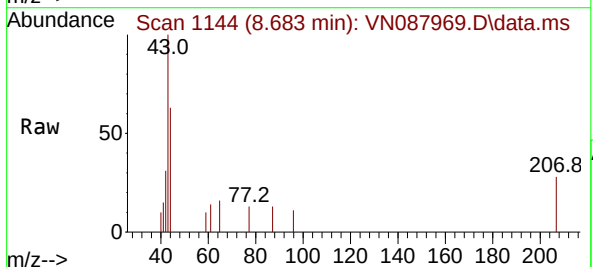
Instrument :
MSVOA_N
ClientSampleId :
WC-A3-03-G

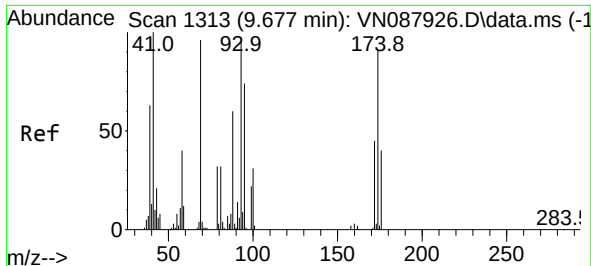
Tgt Ion: 78 Resp: 15182
Ion Ratio Lower Upper
78 100
77 25.8 19.0 28.6



#43
Isopropyl Acetate
Concen: 0.397 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.012 min
Lab File: VN087969.D
Acq: 26 Sep 2025 16:10

Tgt Ion: 43 Resp: 2953
Ion Ratio Lower Upper
43 100
61 13.7 20.2 30.2#
87 7.7 10.9 16.3#





#49

1,4-Dioxane

Concen: 1.238 ug/l

RT: 9.606 min Scan# 11

Delta R.T. -0.070 min

Lab File: VN087969.D

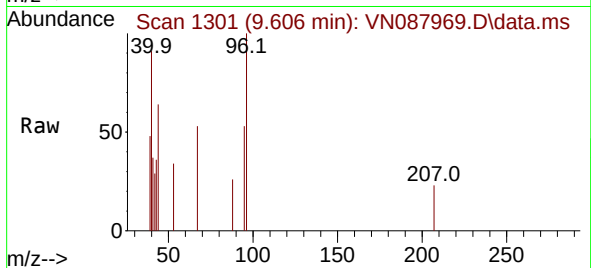
Acq: 26 Sep 2025 16:10

Instrument :

MSVOA_N

ClientSampleId :

WC-A3-03-G



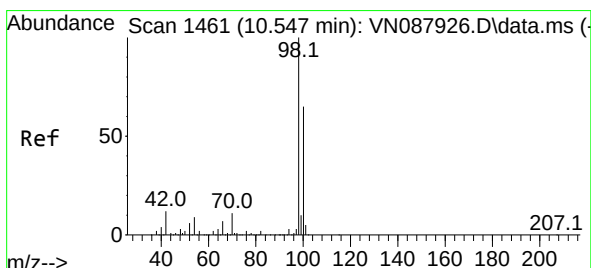
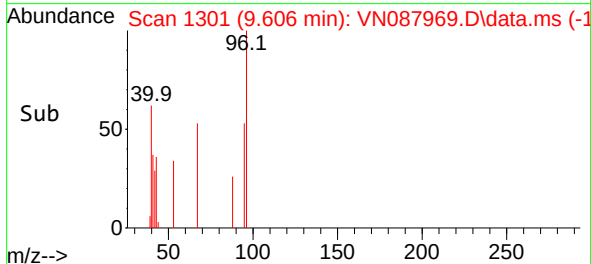
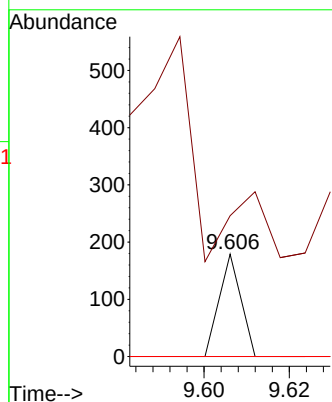
Tgt Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 807.9 22.6 33.8#

58 0.0 57.4 86.2#



#50

Toluene-d8

Concen: 47.770 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN087969.D

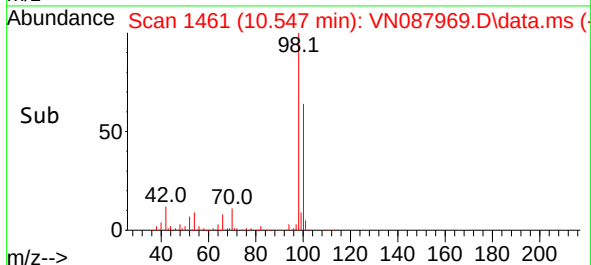
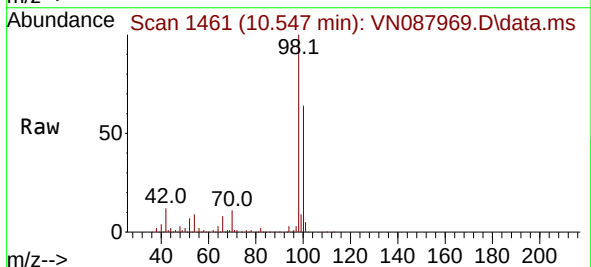
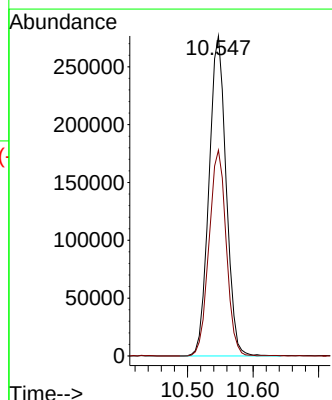
Acq: 26 Sep 2025 16:10

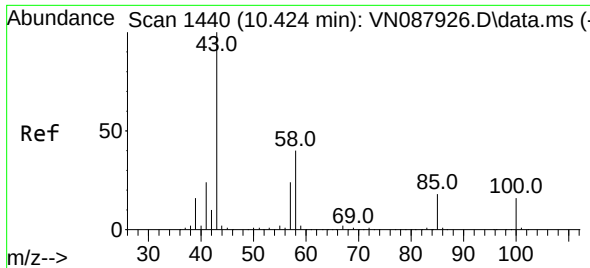
Tgt Ion: 98 Resp: 502673

Ion Ratio Lower Upper

98 100

100 64.5 51.7 77.5

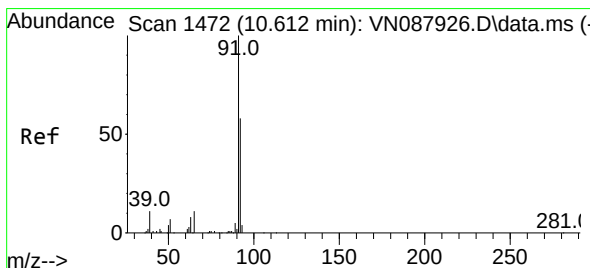
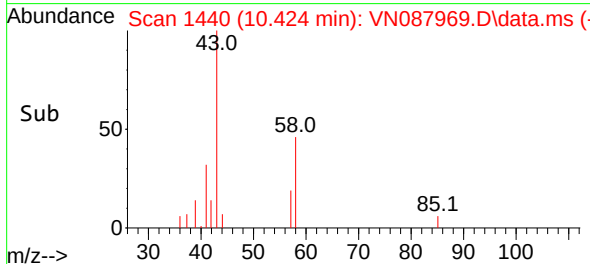
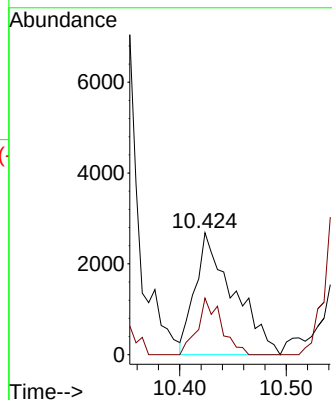
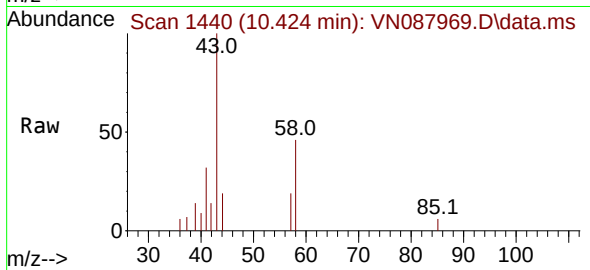




#51
4-Methyl-2-Pentanone
Concen: 1.453 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN087969.D
Acq: 26 Sep 2025 16:10

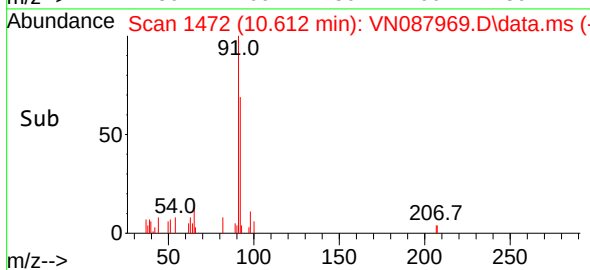
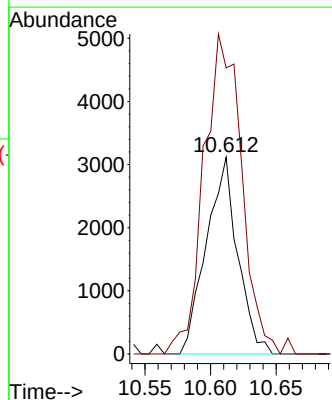
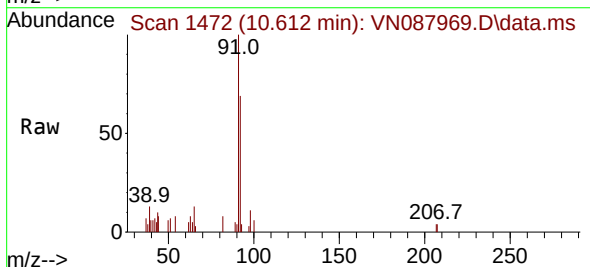
Instrument :
MSVOA_N
ClientSampleId :
WC-A3-03-G

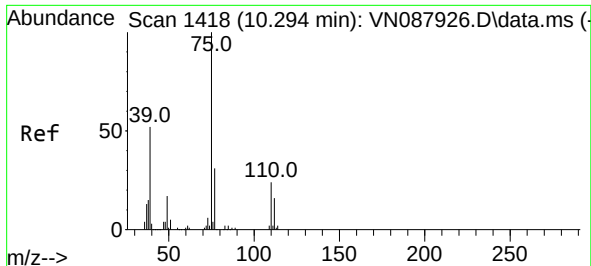
Tgt Ion: 43 Resp: 6743
Ion Ratio Lower Upper
43 100
58 29.1 31.0 46.6#



#52
Toluene
Concen: 0.693 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VN087969.D
Acq: 26 Sep 2025 16:10

Tgt Ion: 92 Resp: 5181
Ion Ratio Lower Upper
92 100
91 195.4 138.2 207.2

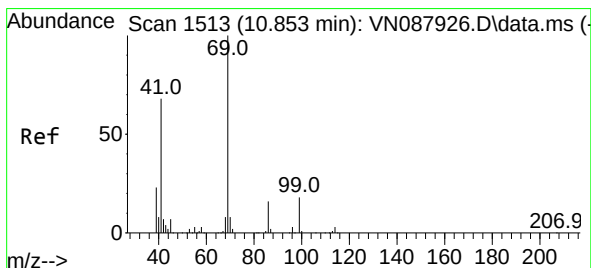
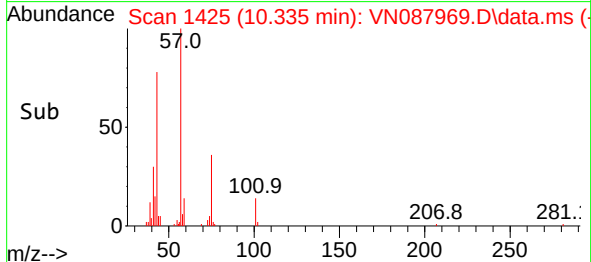
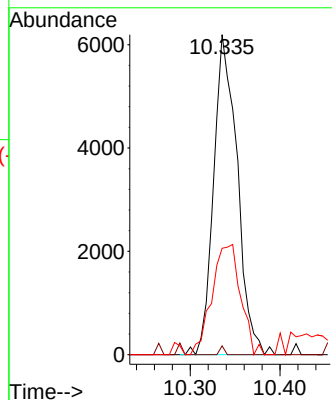
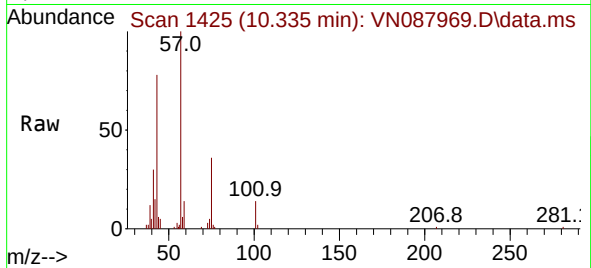




#54
 cis-1,3-Dichloropropene
 Concen: 2.298 ug/l
 RT: 10.335 min Scan# 1418
 Delta R.T. 0.041 min
 Lab File: VN087969.D
 Acq: 26 Sep 2025 16:10

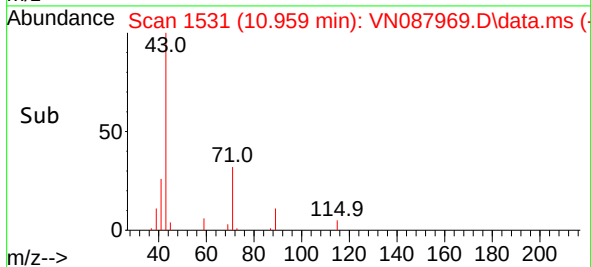
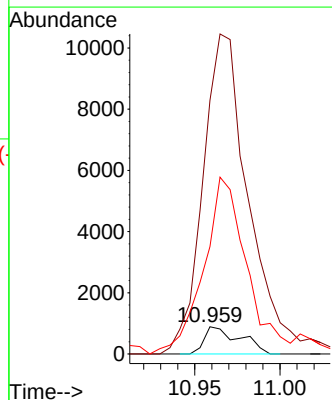
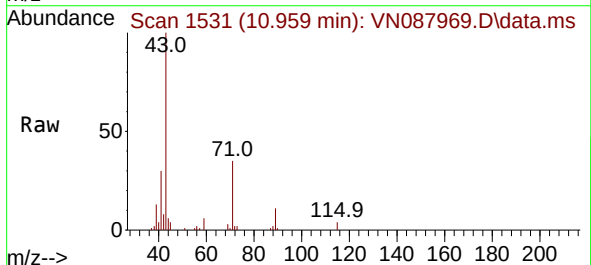
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-A3-03-G

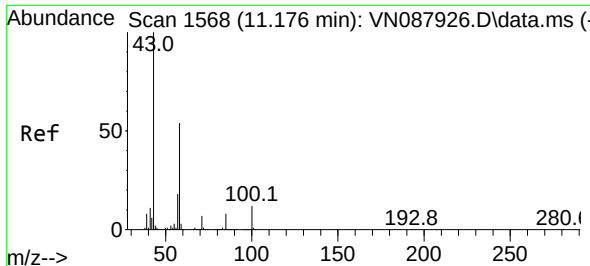
Tgt Ion: 75 Resp: 11296
 Ion Ratio Lower Upper
 75 100
 77 2.7 24.7 37.1#
 39 30.5 41.4 62.0#



#56
 Ethyl methacrylate
 Concen: 0.294 ug/l
 RT: 10.959 min Scan# 1531
 Delta R.T. 0.106 min
 Lab File: VN087969.D
 Acq: 26 Sep 2025 16:10

Tgt Ion: 69 Resp: 1290
 Ion Ratio Lower Upper
 69 100
 41 1529.7 53.8 80.6#
 39 781.5 34.7 52.1#

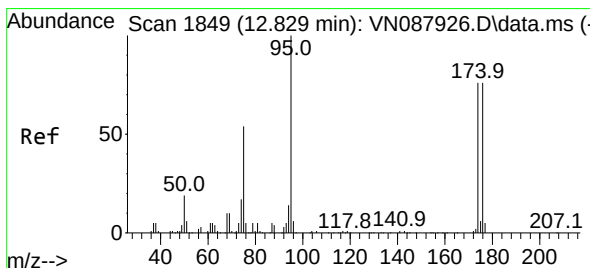
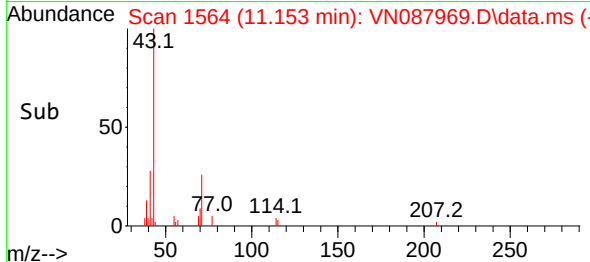
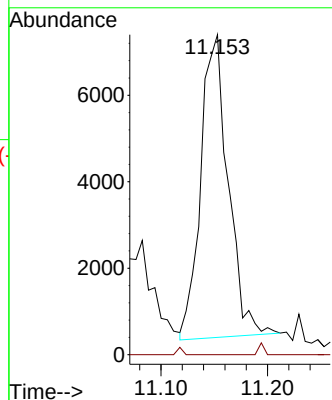
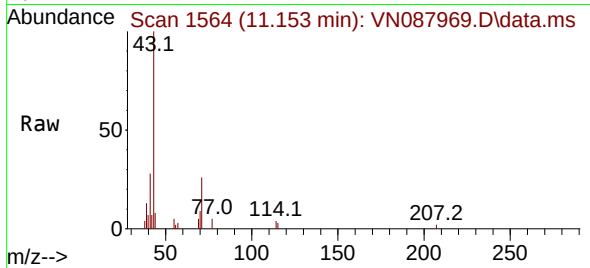




#59
2-Hexanone
Concen: 4.091 ug/l
RT: 11.153 min Scan# 111
Delta R.T. -0.023 min
Lab File: VN087969.D
Acq: 26 Sep 2025 16:10

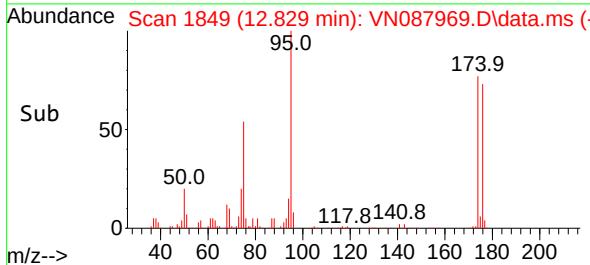
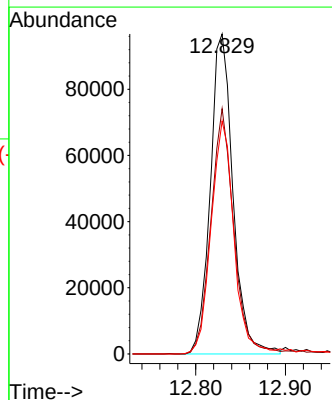
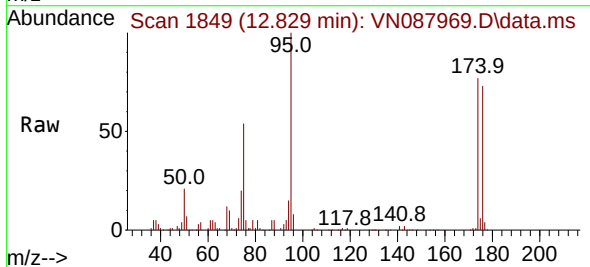
Instrument :
MSVOA_N
ClientSampleId :
WC-A3-03-G

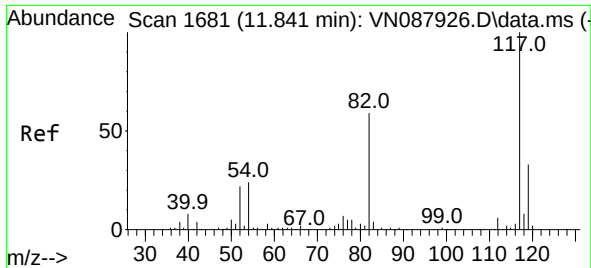
Tgt Ion: 43 Resp: 12553
Ion Ratio Lower Upper
43 100
58 0.0 26.4 79.2#



#62
4-Bromofluorobenzene
Concen: 45.220 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087969.D
Acq: 26 Sep 2025 16:10

Tgt Ion: 95 Resp: 170088
Ion Ratio Lower Upper
95 100
174 77.2 0.0 159.2
176 72.9 0.0 152.6

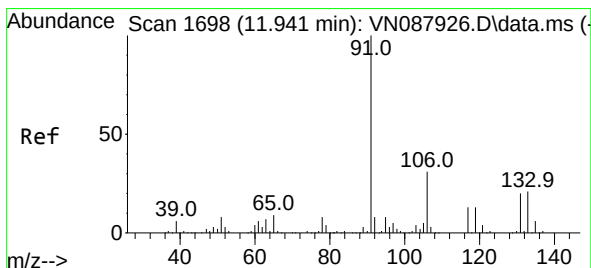
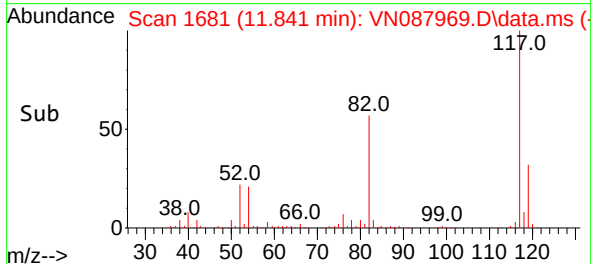
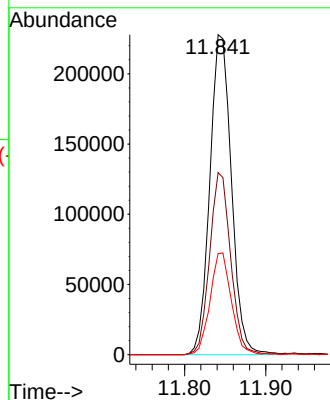
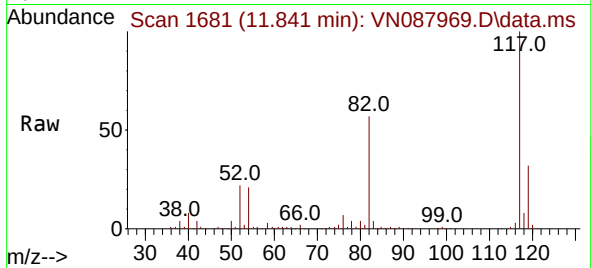




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VN087969.D
Acq: 26 Sep 2025 16:10

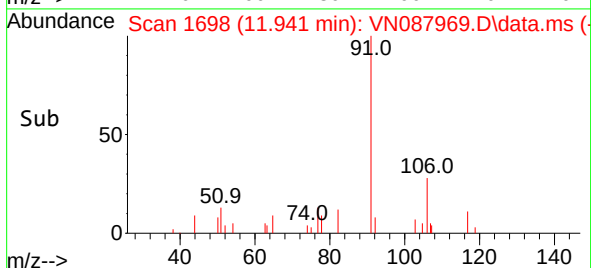
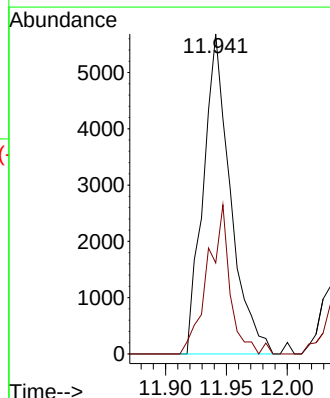
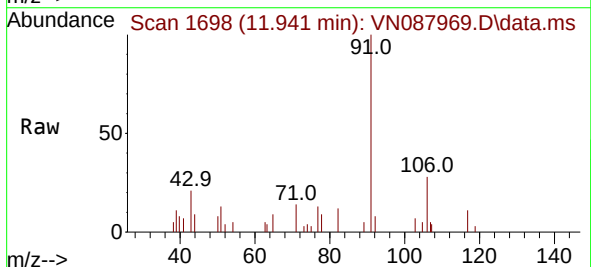
Instrument :
MSVOA_N
ClientSampleId :
WC-A3-03-G

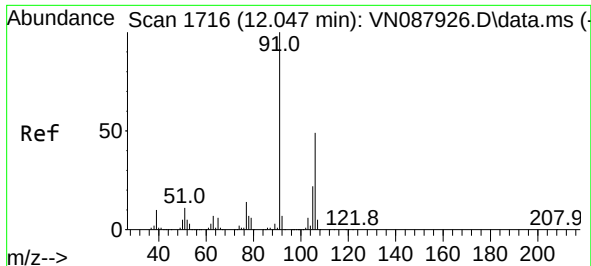
Tgt Ion:117 Resp: 421613
Ion Ratio Lower Upper
117 100
82 56.9 47.0 70.4
119 31.6 26.1 39.1



#67
Ethyl Benzene
Concen: 0.589 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087969.D
Acq: 26 Sep 2025 16:10

Tgt Ion: 91 Resp: 8817
Ion Ratio Lower Upper
91 100
106 28.4 25.2 37.8

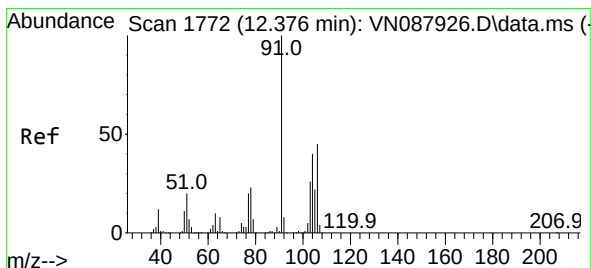
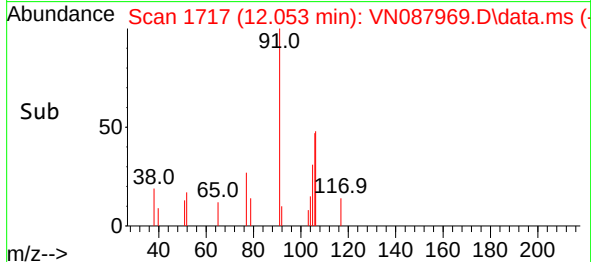
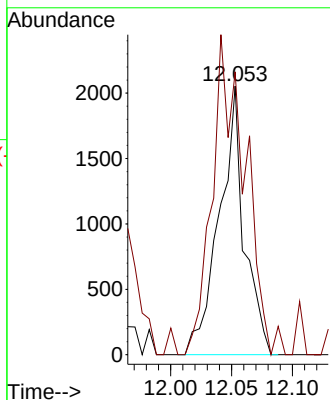
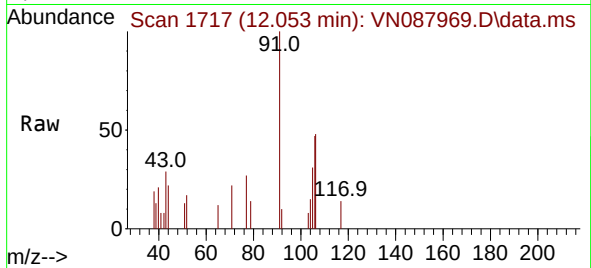




#68
m/p-Xylenes
Concen: 0.513 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. 0.006 min
Lab File: VN087969.D
Acq: 26 Sep 2025 16:10

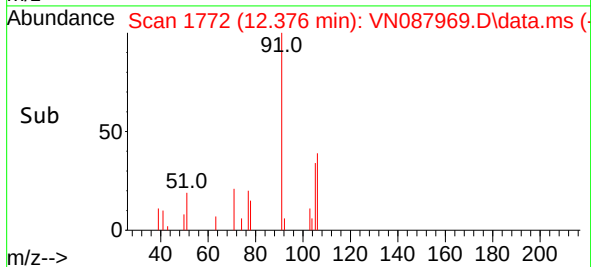
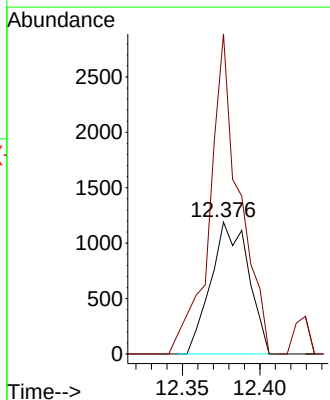
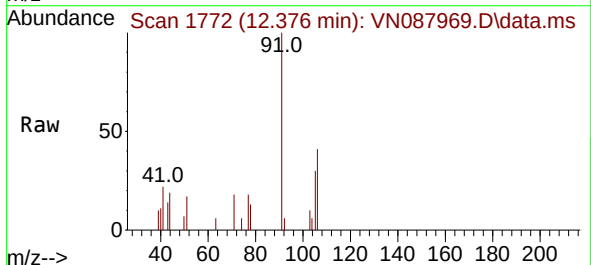
Instrument :
MSVOA_N
ClientSampleId :
WC-A3-03-G

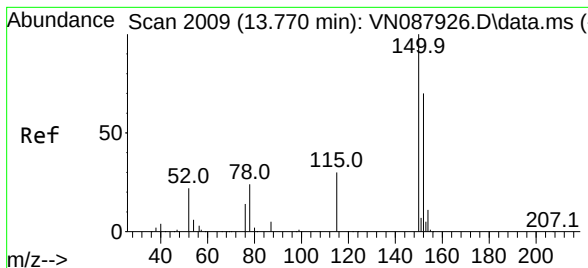
Tgt Ion:106 Resp: 2935
Ion Ratio Lower Upper
106 100
91 157.2 162.9 244.3#



#69
o-Xylene
Concen: 0.365 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN087969.D
Acq: 26 Sep 2025 16:10

Tgt Ion:106 Resp: 2006
Ion Ratio Lower Upper
106 100
91 191.8 108.2 324.6

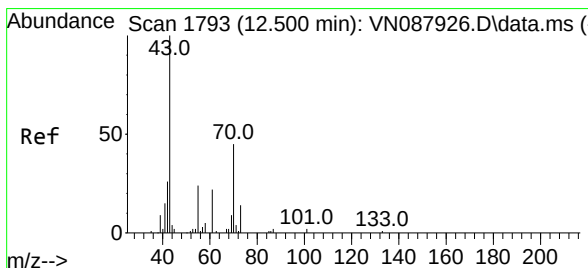
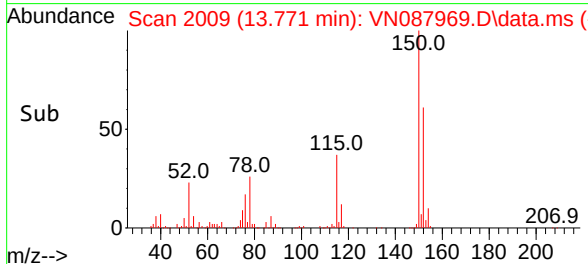
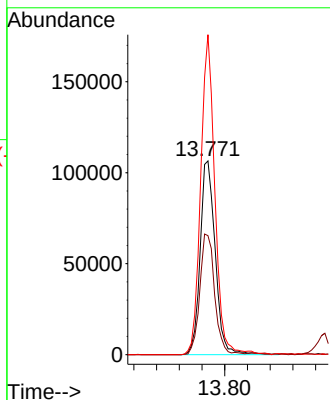
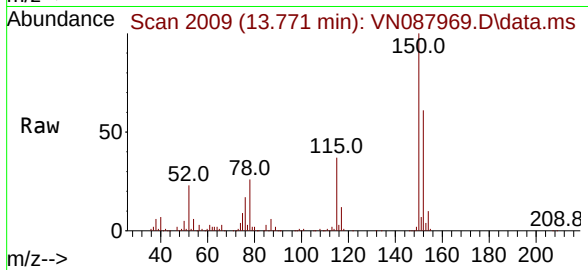




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.771 min Scan# 2009
 Delta R.T. 0.000 min
 Lab File: VN087969.D
 Acq: 26 Sep 2025 16:10

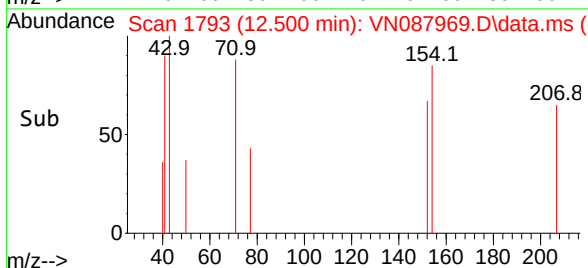
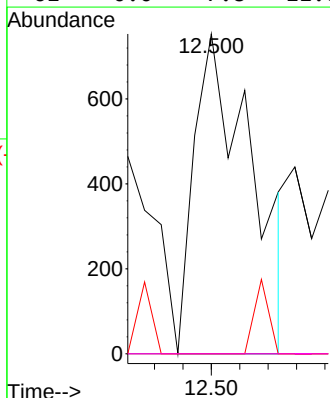
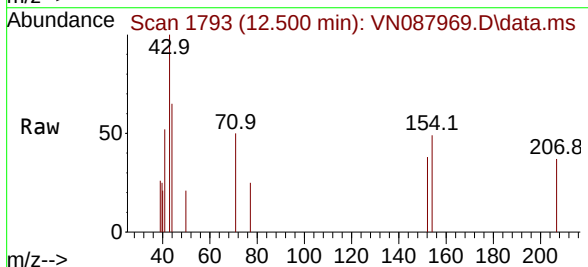
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-A3-03-G

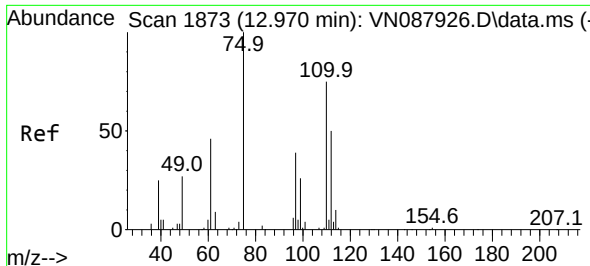
Tgt Ion:152 Resp: 196969
 Ion Ratio Lower Upper
 152 100
 115 61.2 29.9 89.7
 150 154.6 0.0 335.0



#74
 N-ethyl acetate
 Concen: 0.263 ug/l
 RT: 12.500 min Scan# 1793
 Delta R.T. 0.000 min
 Lab File: VN087969.D
 Acq: 26 Sep 2025 16:10

Tgt Ion: 43 Resp: 1059
 Ion Ratio Lower Upper
 43 100
 70 0.0 19.8 29.8#
 55 5.9 9.6 14.4#
 61 0.0 7.8 11.6#

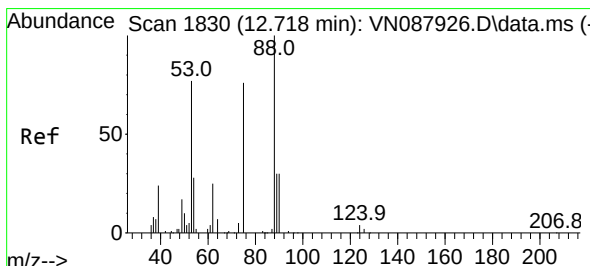
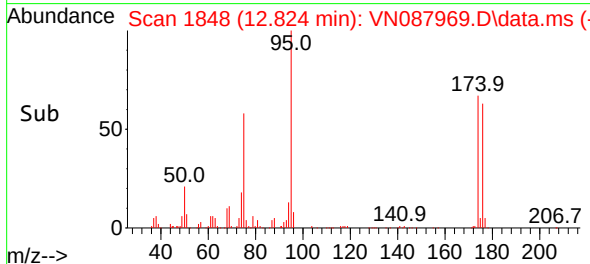
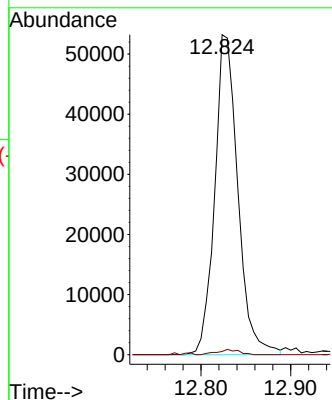
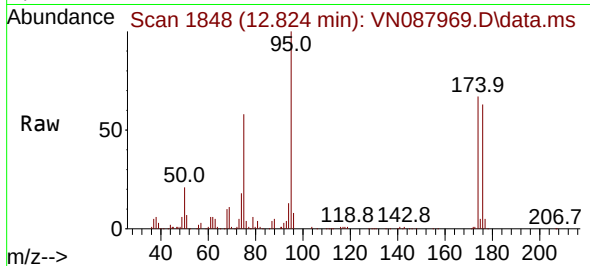




#76
1,2,3-Trichloropropane
Concen: 24.557 ug/l
RT: 12.824 min Scan# 1848
Delta R.T. -0.147 min
Lab File: VN087969.D
Acq: 26 Sep 2025 16:10

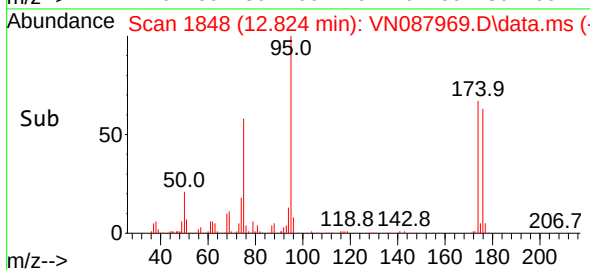
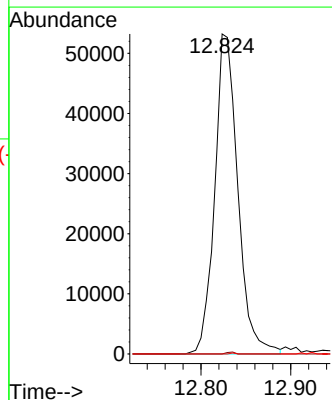
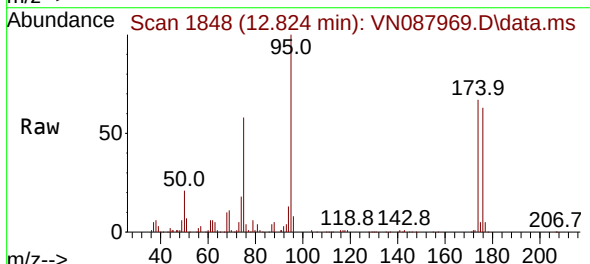
Instrument :
MSVOA_N
ClientSampleId :
WC-A3-03-G

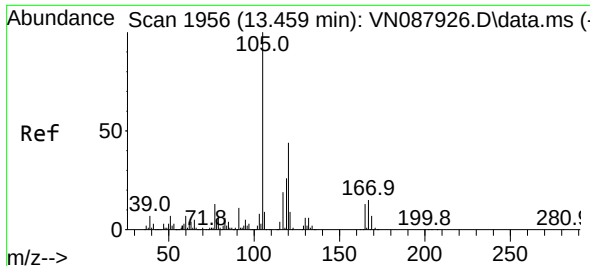
Tgt Ion: 75 Resp: 95346
Ion Ratio Lower Upper
75 100
77 1.5 89.5 268.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 68.190 ug/l
RT: 12.824 min Scan# 1848
Delta R.T. 0.106 min
Lab File: VN087969.D
Acq: 26 Sep 2025 16:10

Tgt Ion: 75 Resp: 95346
Ion Ratio Lower Upper
75 100
53 0.2 82.0 123.0#
89 0.1 36.1 54.1#

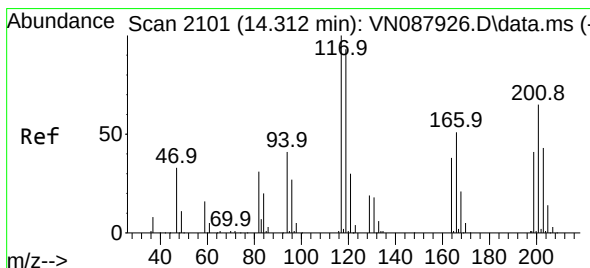
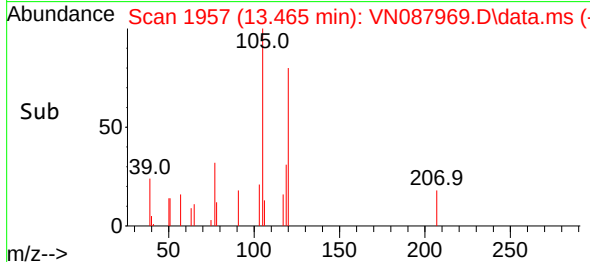
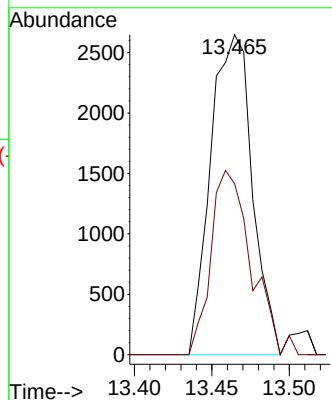
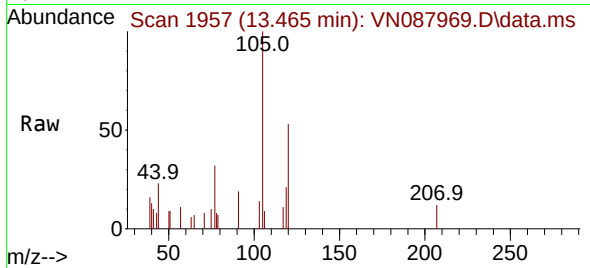




#84
 1,2,4-Trimethylbenzene
 Concen: 0.457 ug/l
 RT: 13.465 min Scan# 1956
 Delta R.T. 0.006 min
 Lab File: VN087969.D
 Acq: 26 Sep 2025 16:10

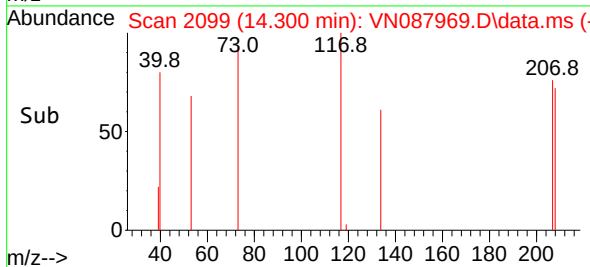
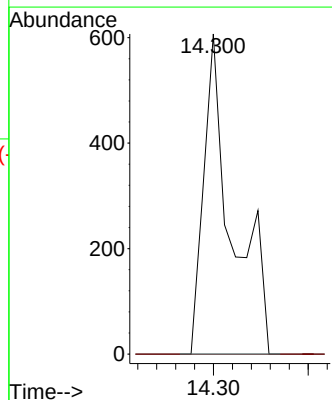
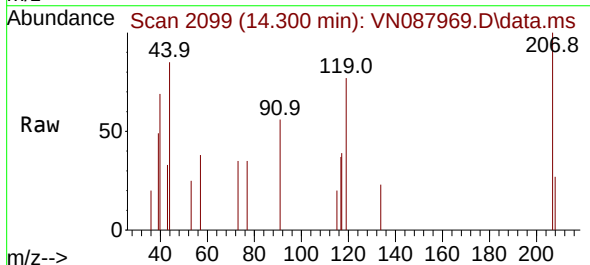
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-A3-03-G

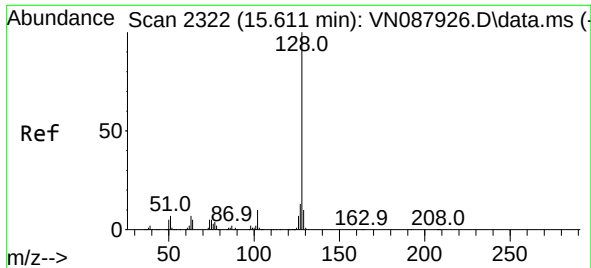
Tgt Ion:105 Resp: 4949
 Ion Ratio Lower Upper
 105 100
 120 55.8 22.4 67.3



#90
 Hexachloroethane
 Concen: 0.271 ug/l
 RT: 14.300 min Scan# 2099
 Delta R.T. -0.012 min
 Lab File: VN087969.D
 Acq: 26 Sep 2025 16:10

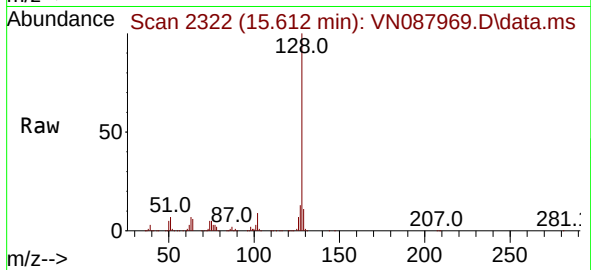
Tgt Ion:117 Resp: 628
 Ion Ratio Lower Upper
 117 100
 201 0.0 33.6 100.6#





#95
Naphthalene
Concen: 98.477 ug/l
RT: 15.612 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN087969.D
Acq: 26 Sep 2025 16:10

Instrument :
MSVOA_N
ClientSampleId :
WC-A3-03-G



Tgt Ion:128 Resp: 1140310

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.2	15.4
129	11.0	8.6	13.0

