

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102825\
 Data File : VN088144.D
 Acq On : 28 Oct 2025 16:45
 Operator : JC\MD
 Sample : Q3468-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-13

Quant Time: Oct 29 02:28:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

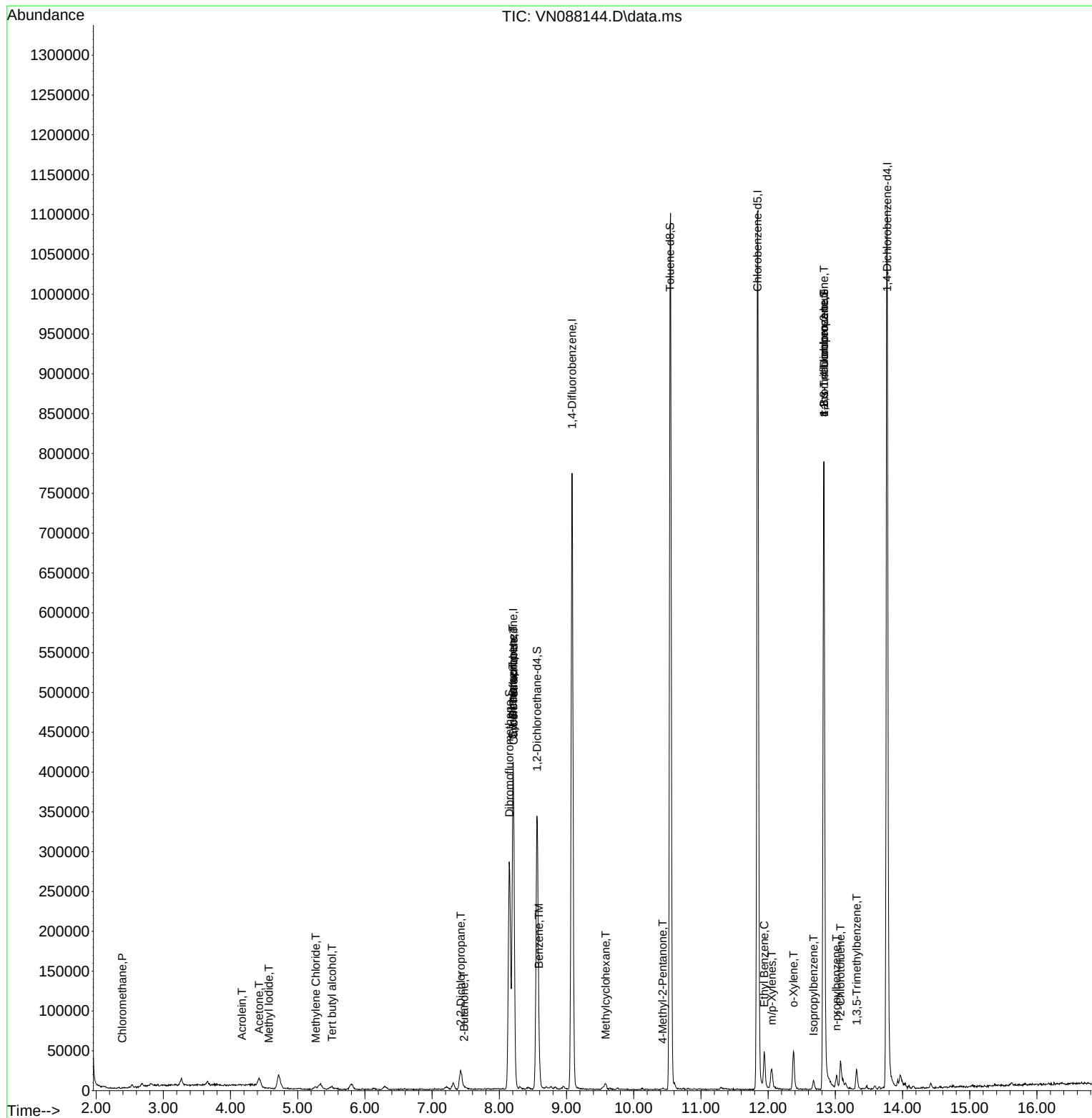
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	272421	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	624999	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	602609	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	297174	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	285178	60.538	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 121.080%		
35) Dibromofluoromethane	8.147	113	201956	48.099	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 96.200%		
50) Toluene-d8	10.541	98	740114	45.746	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 91.500%		
62) 4-Bromofluorobenzene	12.829	95	297264	52.027	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 104.060%		
Target Compounds						Qvalue
3) Chloromethane	2.389	50	735	0.203	ug/l #	42
10) Methyl Iodide	4.571	142	419	4.331	ug/l #	38
11) Tert butyl alcohol	5.512	59	2648	3.263	ug/l #	71
13) Acrolein	4.171	56	549	0.601	ug/l	98
16) Acetone	4.424	43	19760	8.350	ug/l	99
20) Methylene Chloride	5.271	84	205	0.828	ug/l #	22
25) 2-Butanone	7.477	43	3203	1.027	ug/l #	76
26) 2,2-Dichloropropane	7.424	77	1515	0.238	ug/l #	54
31) Cyclohexane	8.200	56	10384	1.575	ug/l #	30
36) 1,1-Dichloropropene	8.200	75	26971	4.399	ug/l #	50
38) Carbon Tetrachloride	8.212	117	32637	5.154	ug/l #	15
39) Methylcyclohexane	9.583	83	3157	0.401	ug/l	92
40) Benzene	8.588	78	24537	1.314	ug/l	94
51) 4-Methyl-2-Pentanone	10.430	43	2048	0.285	ug/l #	86
67) Ethyl Benzene	11.941	91	32622	1.358	ug/l	92
68) m/p-Xylenes	12.053	106	8934	0.993	ug/l	93
69) o-Xylene	12.376	106	15597	1.828	ug/l	95
73) Isopropylbenzene	12.676	105	8402	0.367	ug/l	95
76) 1,2,3-Trichloropropane	12.829	75	168202	24.756	ug/l #	1
78) n-propylbenzene	13.018	91	14020	0.501	ug/l	95
79) 2-Chlorotoluene	13.076	91	6489	0.407	ug/l #	42
80) 1,3,5-Trimethylbenzene	13.318	105	18711	0.983	ug/l	74
81) trans-1,4-Dichloro-2-b...	12.829	75	168202	69.058	ug/l #	1

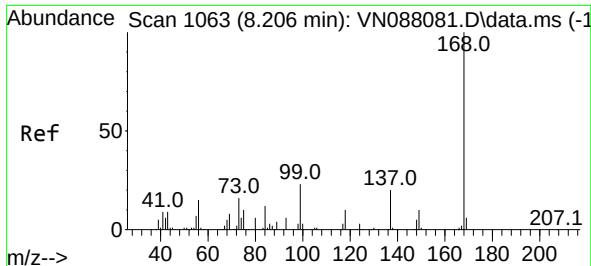
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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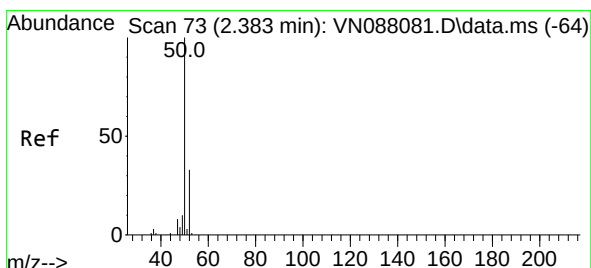
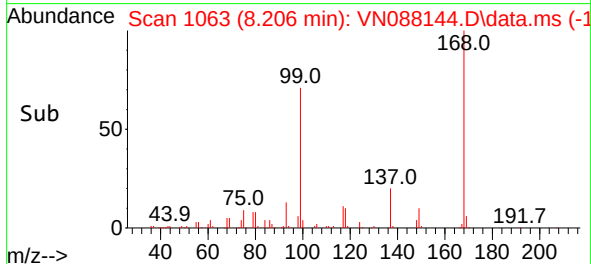
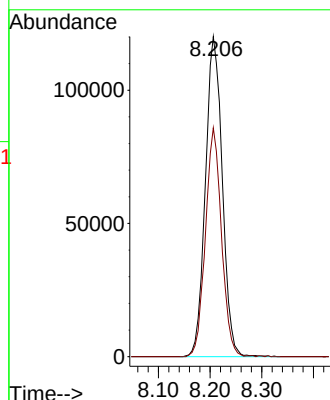
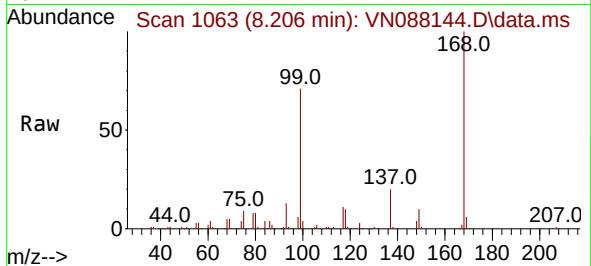




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

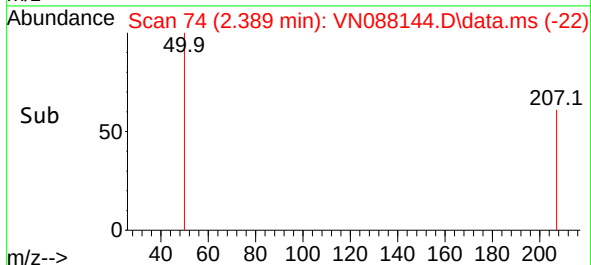
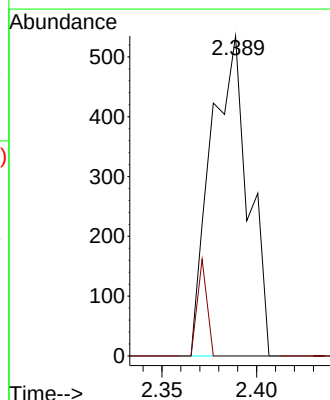
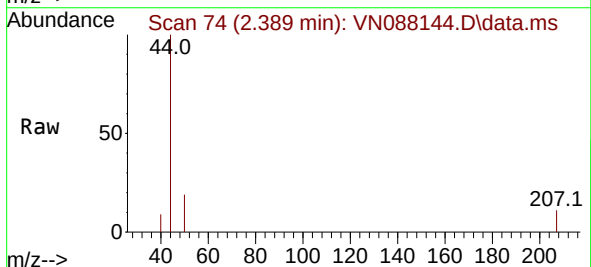
Instrument :
MSVOA_N
ClientSampleId :
MW-13

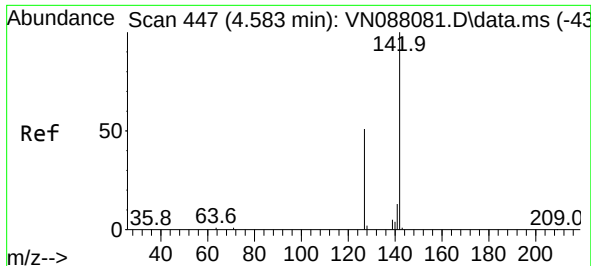
Tgt Ion:168 Resp: 272421
Ion Ratio Lower Upper
168 100
99 71.5 57.2 85.8



#3
Chloromethane
Concen: 0.203 ug/l
RT: 2.389 min Scan# 74
Delta R.T. 0.006 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

Tgt Ion: 50 Resp: 735
Ion Ratio Lower Upper
50 100
52 0.0 26.2 39.4#

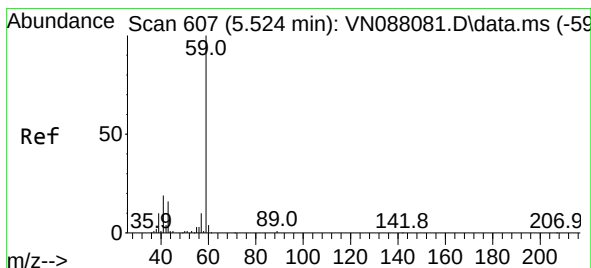
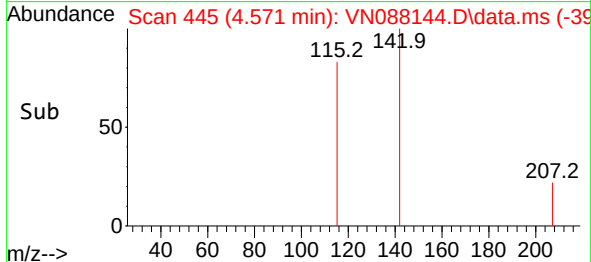
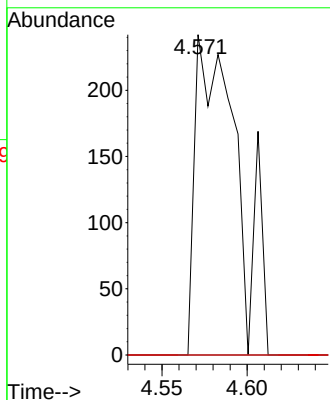
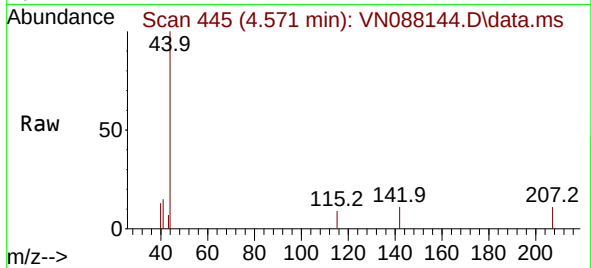




#10
Methyl Iodide
Concen: 4.331 ug/l
RT: 4.571 min Scan# 445
Delta R.T. -0.006 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

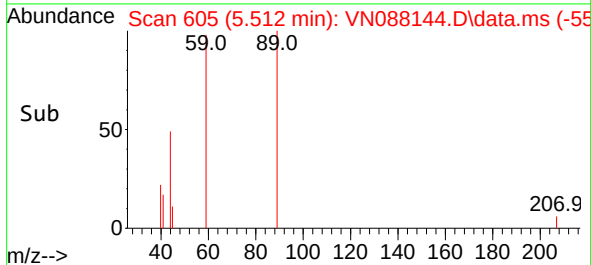
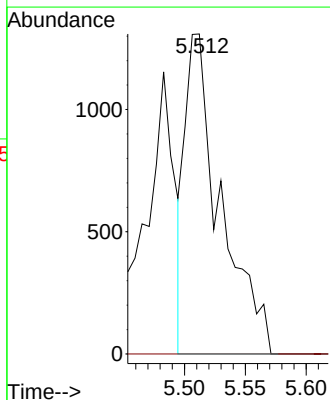
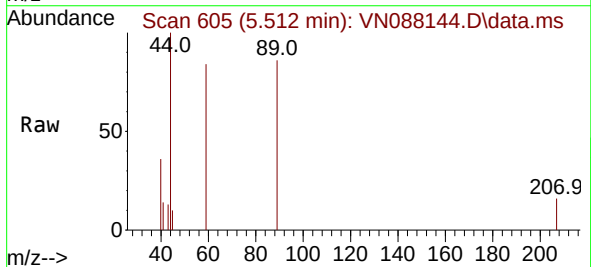
Instrument :
MSVOA_N
ClientSampleId :
MW-13

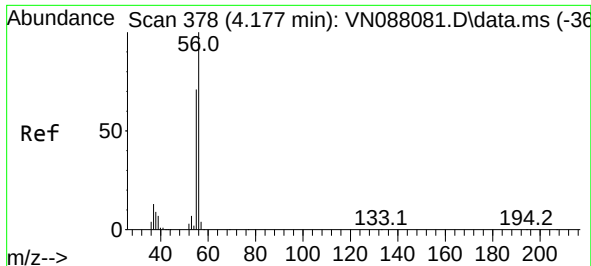
Tgt Ion:142 Resp: 419
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#11
Tert butyl alcohol
Concen: 3.263 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

Tgt Ion: 59 Resp: 2648
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#

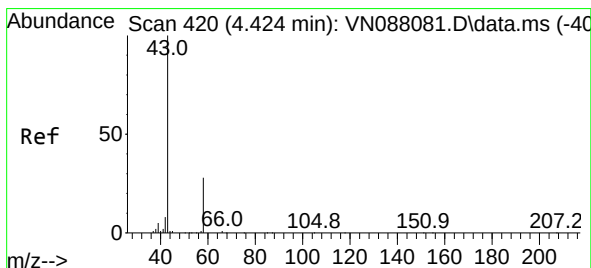
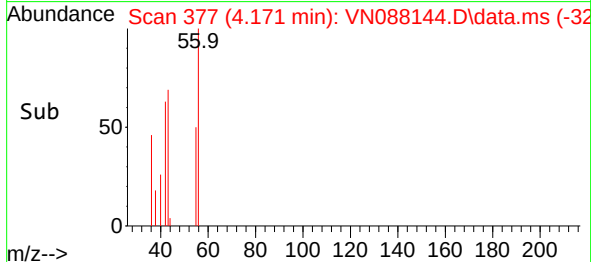
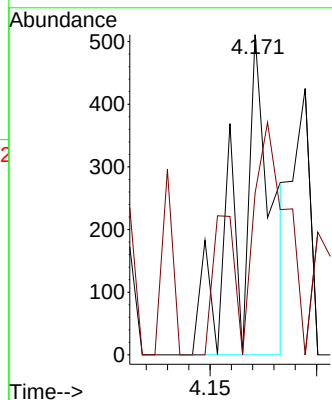
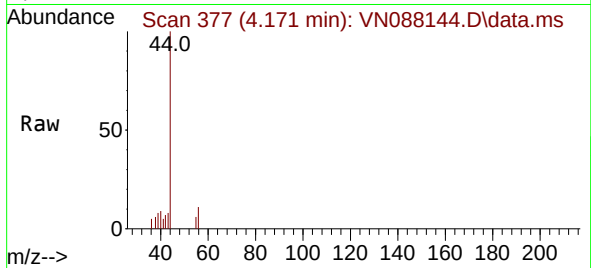




#13
Acrolein
Concen: 0.601 ug/l
RT: 4.171 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

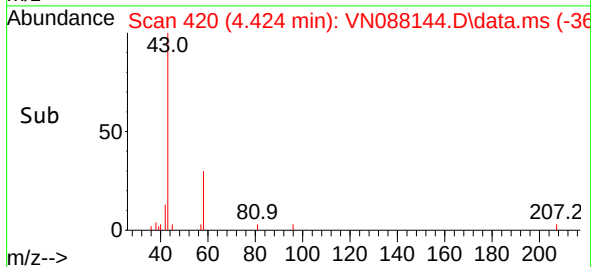
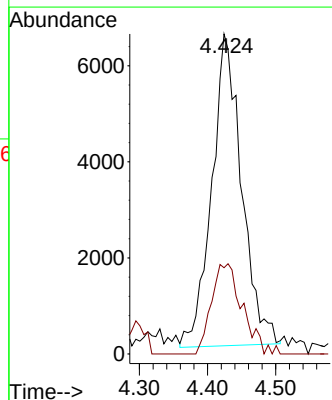
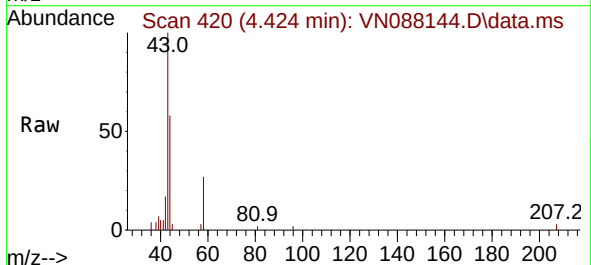
Instrument :
MSVOA_N
ClientSampleId :
MW-13

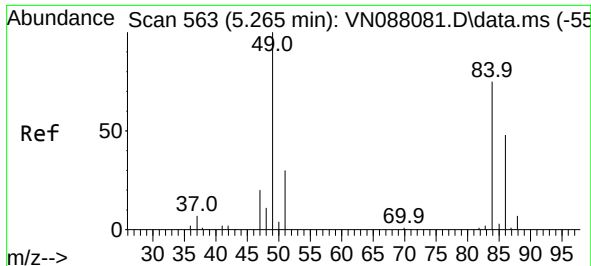
Tgt Ion: 56 Resp: 549
Ion Ratio Lower Upper
56 100
55 70.3 57.3 85.9



#16
Acetone
Concen: 8.350 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

Tgt Ion: 43 Resp: 19760
Ion Ratio Lower Upper
43 100
58 27.9 22.6 33.8

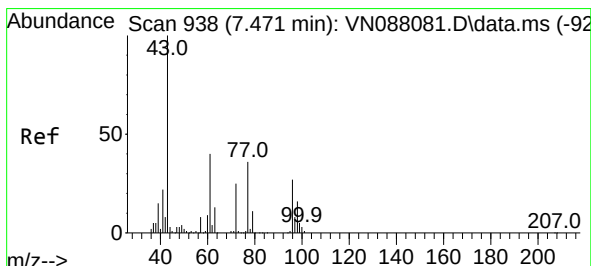
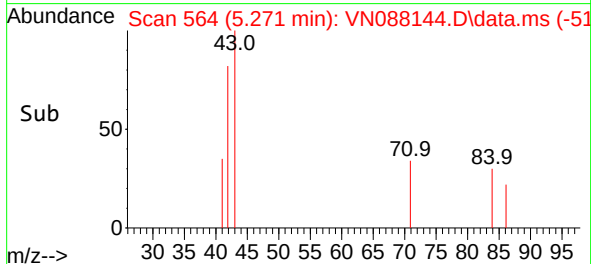
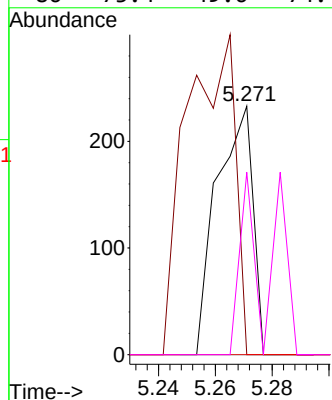
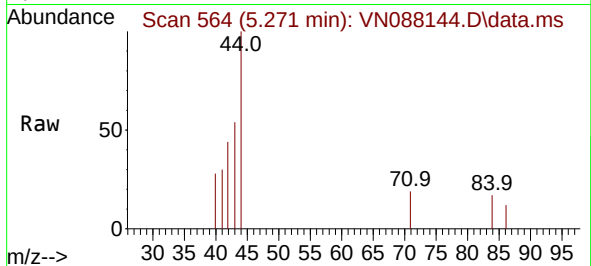




#20
Methylene Chloride
Concen: 0.828 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

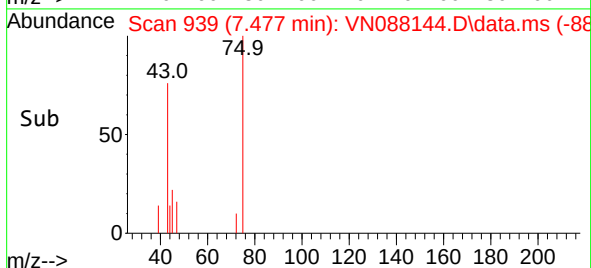
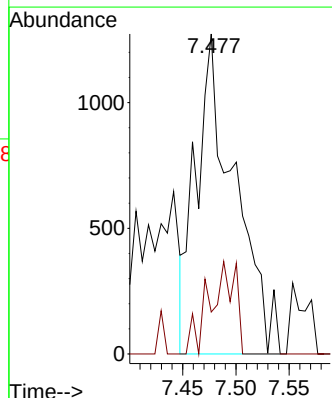
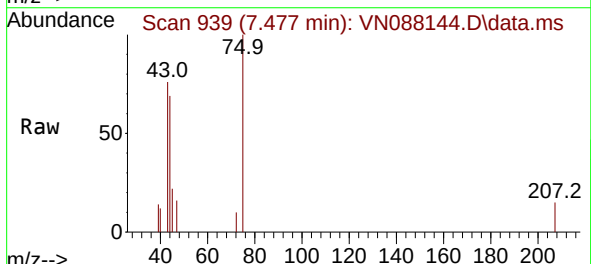
Instrument :
MSVOA_N
ClientSampleId :
MW-13

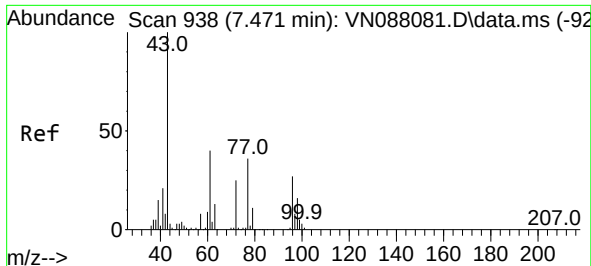
Tgt Ion:	84	Resp:	205
Ion	Ratio	Lower	Upper
84	100		
49	0.0	103.4	155.2#
51	0.0	33.8	50.8#
86	73.4	49.6	74.4



#25
2-Butanone
Concen: 1.027 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.012 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

Tgt Ion:	43	Resp:	3203
Ion	Ratio	Lower	Upper
43	100		
72	13.1	19.9	29.9#

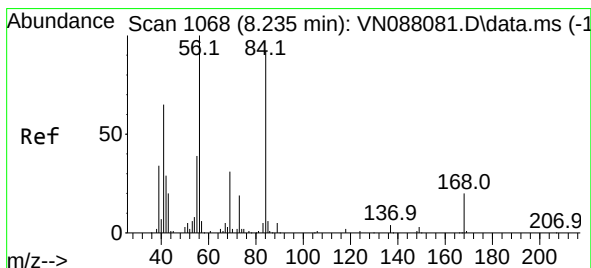
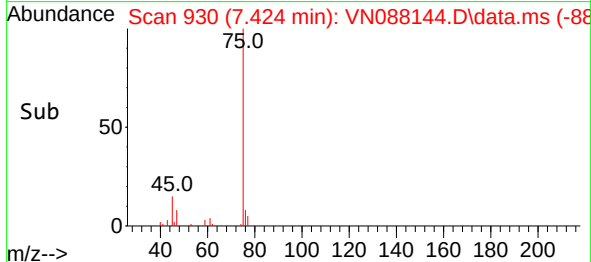
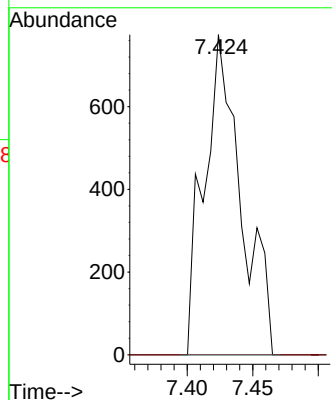
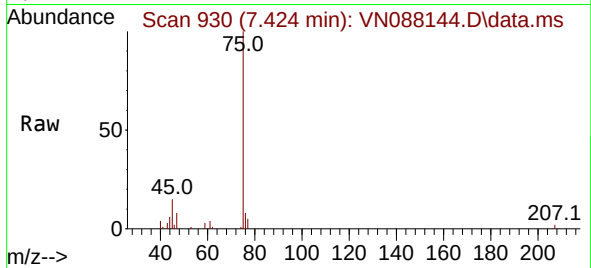




#26
2,2-Dichloropropane
Concen: 0.238 ug/l
RT: 7.424 min Scan# 91
Delta R.T. -0.053 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

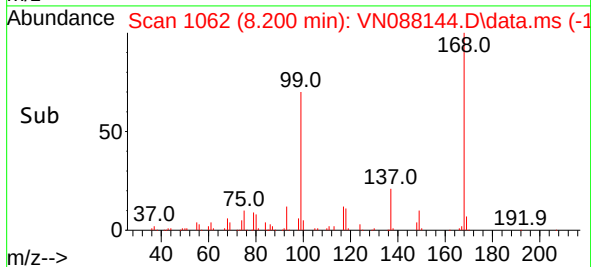
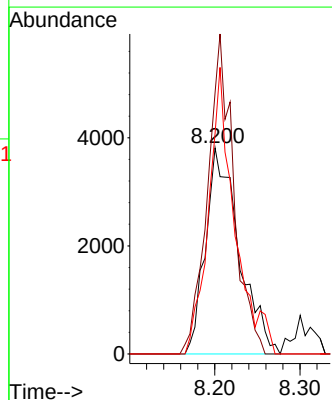
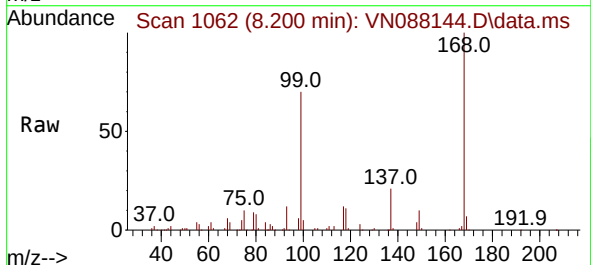
Instrument :
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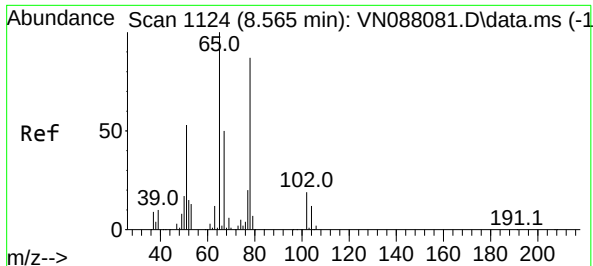
Tgt Ion: 77 Resp: 1515
Ion Ratio Lower Upper
77 100
97 0.0 10.9 32.7#



#31
Cyclohexane
Concen: 1.575 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.035 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

Tgt Ion: 56 Resp: 10384
Ion Ratio Lower Upper
56 100
69 126.8 23.7 35.5#
84 107.1 64.7 97.1#





#33

1,2-Dichloroethane-d4

Concen: 60.538 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088144.D

Acq: 28 Oct 2025 16:45

Instrument :

MSVOA_N

ClientSampleId :

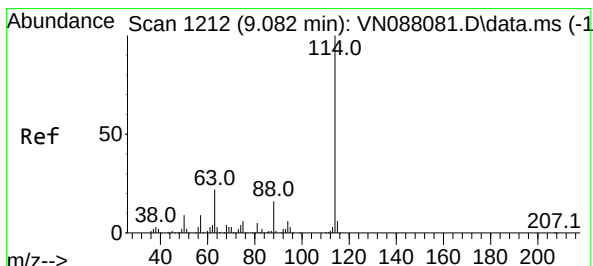
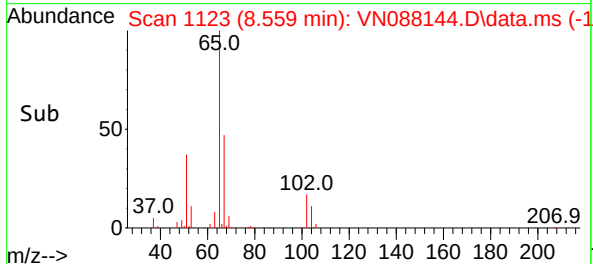
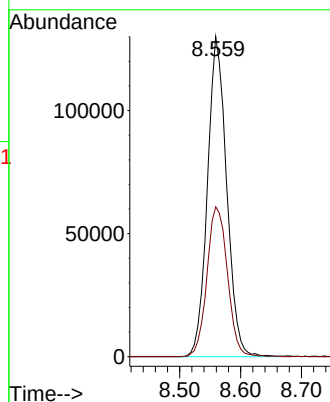
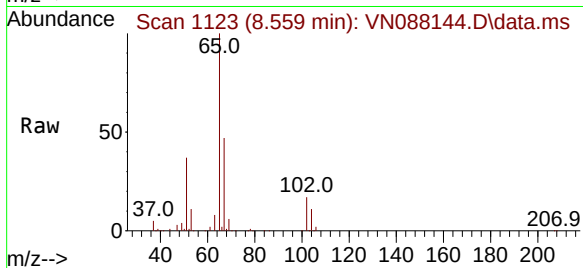
MW-13

Tgt Ion: 65 Resp: 285178

Ion Ratio Lower Upper

65 100

67 50.0 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN088144.D

Acq: 28 Oct 2025 16:45

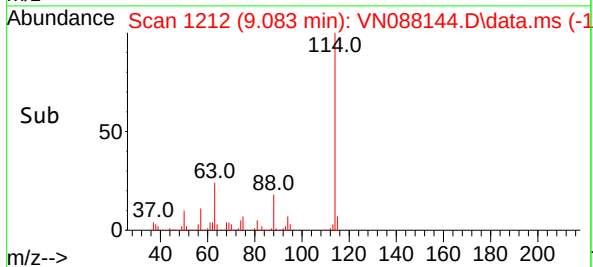
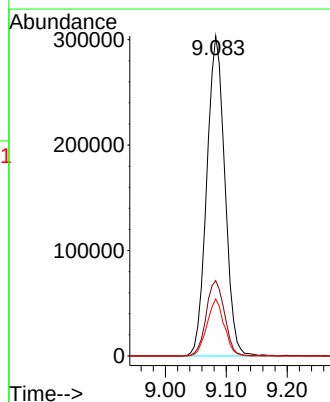
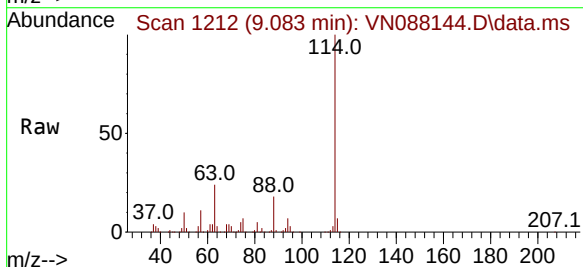
Tgt Ion: 114 Resp: 624999

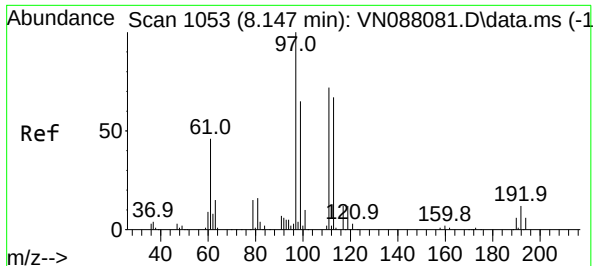
Ion Ratio Lower Upper

114 100

63 23.6 0.0 45.2

88 17.8 0.0 33.4





#35

Dibromofluoromethane

Concen: 48.099 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088144.D

Acq: 28 Oct 2025 16:45

Instrument :

MSVOA_N

ClientSampleId :

MW-13

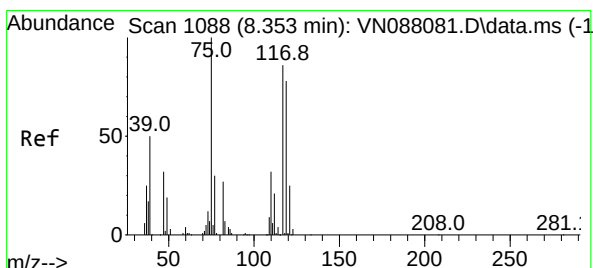
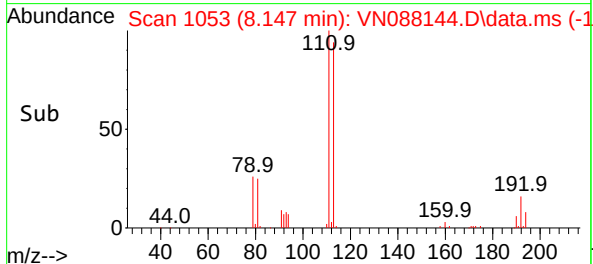
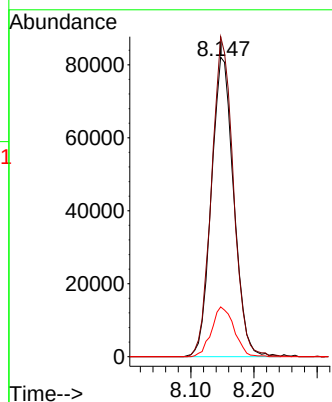
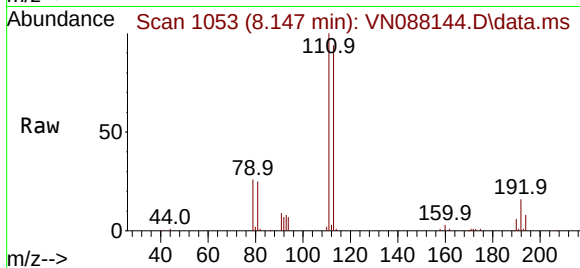
Tgt Ion:113 Resp: 201956

Ion Ratio Lower Upper

113 100

111 104.2 82.8 124.2

192 16.8 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.399 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.153 min

Lab File: VN088144.D

Acq: 28 Oct 2025 16:45

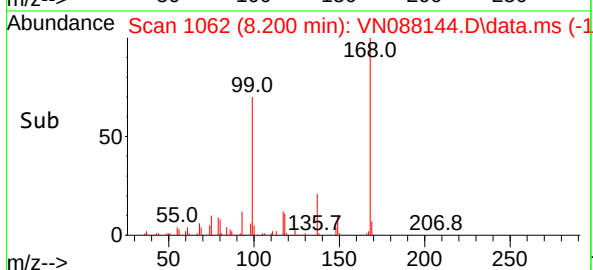
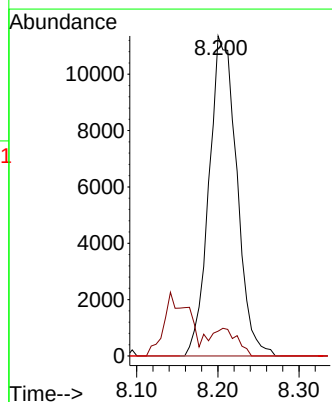
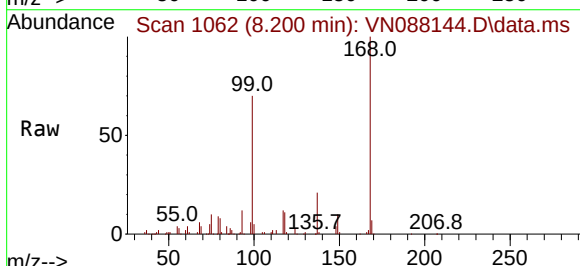
Tgt Ion: 75 Resp: 26971

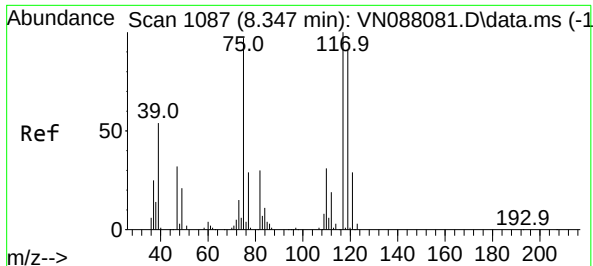
Ion Ratio Lower Upper

75 100

110 7.3 15.9 47.6#

77 0.0 24.4 36.6#

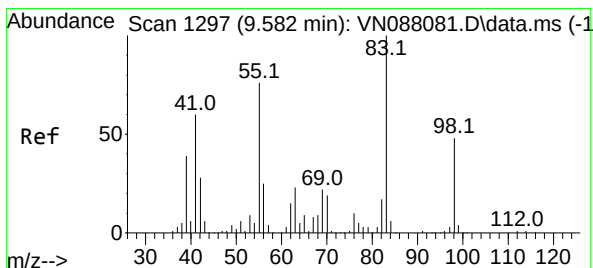
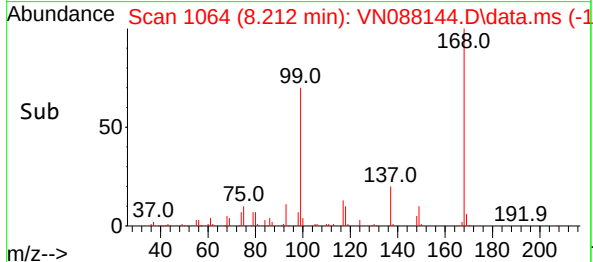
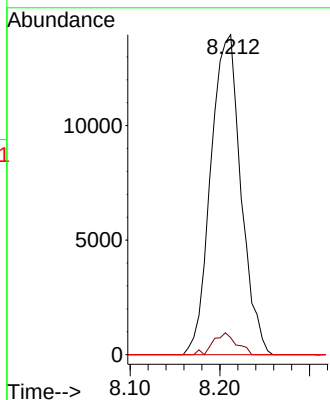
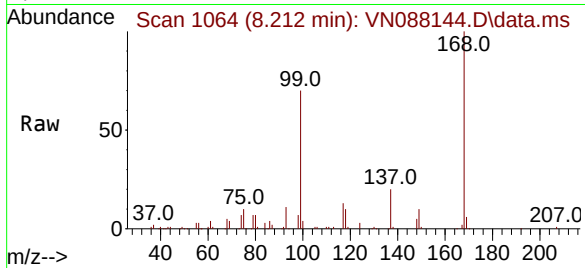




#38
Carbon Tetrachloride
Concen: 5.154 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.129 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

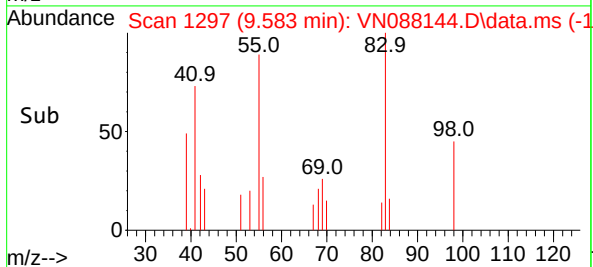
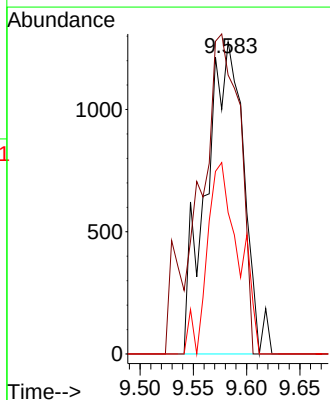
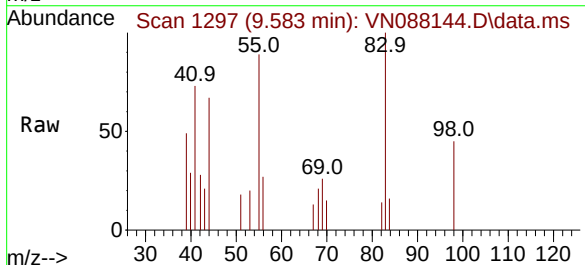
Instrument :
MSVOA_N
ClientSampleId :
MW-13

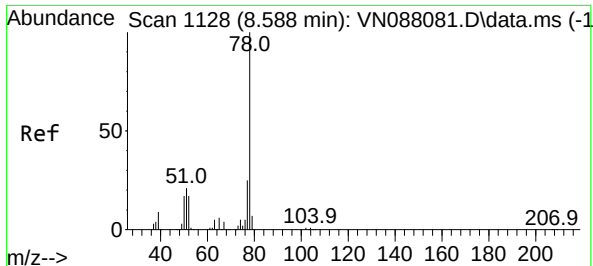
Tgt Ion:117 Resp: 32637
Ion Ratio Lower Upper
117 100
119 5.3 79.0 118.6#
121 0.0 25.0 37.6#



#39
Methylcyclohexane
Concen: 0.401 ug/l
RT: 9.583 min Scan# 1297
Delta R.T. 0.000 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

Tgt Ion: 83 Resp: 3157
Ion Ratio Lower Upper
83 100
55 89.4 64.6 96.8
98 45.3 38.4 57.6

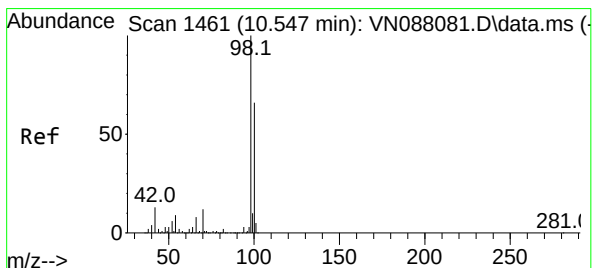
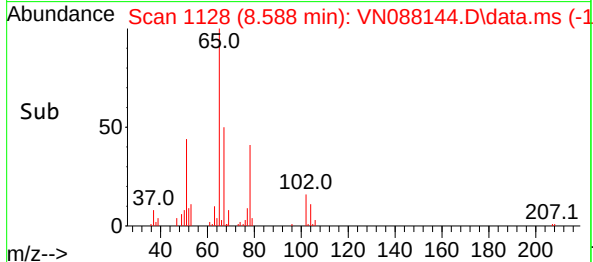
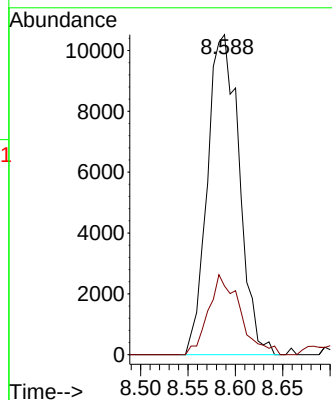
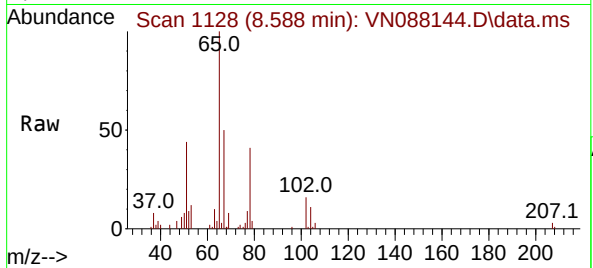




#40
Benzene
Concen: 1.314 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

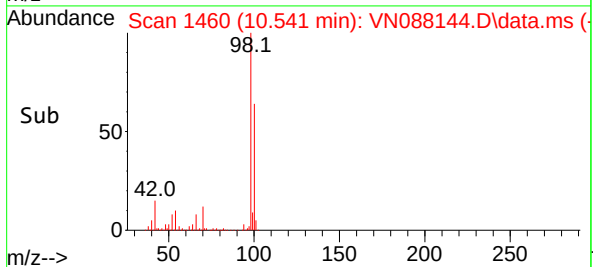
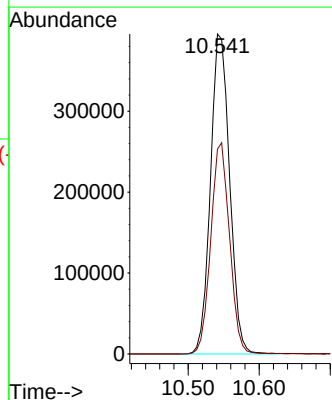
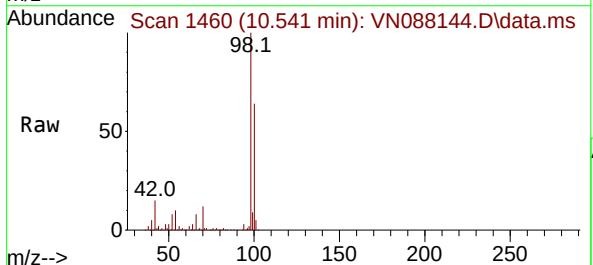
Instrument :
MSVOA_N
ClientSampleId :
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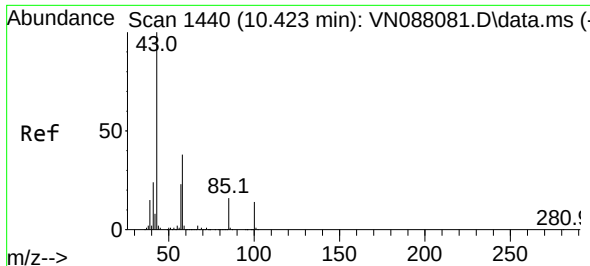
Tgt Ion: 78 Resp: 24537
Ion Ratio Lower Upper
78 100
77 21.4 19.7 29.5



#50
Toluene-d8
Concen: 45.746 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

Tgt Ion: 98 Resp: 740114
Ion Ratio Lower Upper
98 100
100 64.6 52.8 79.2

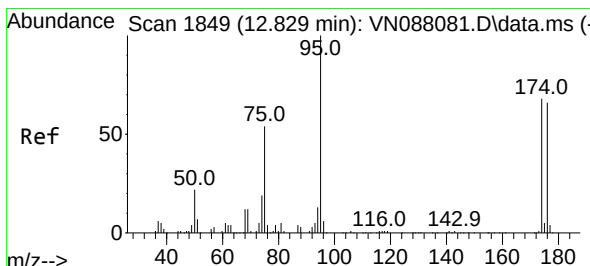
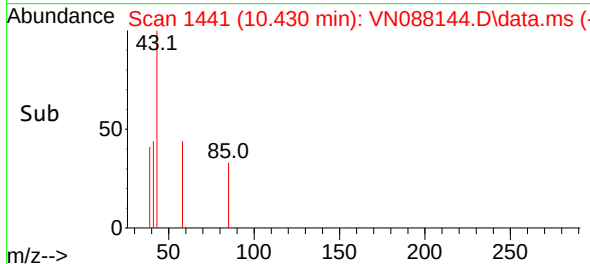
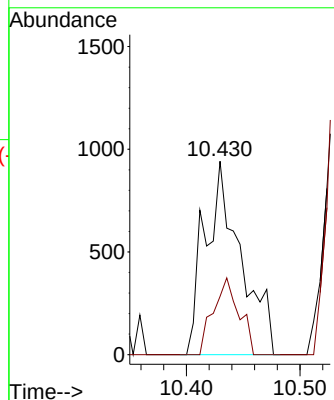
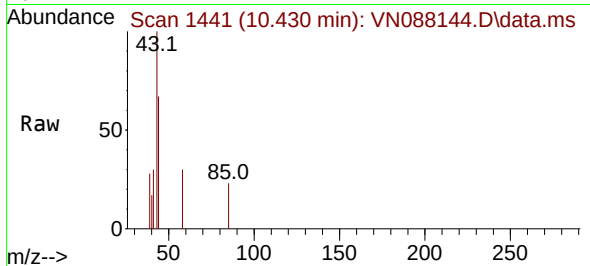




#51
4-Methyl-2-Pentanone
Concen: 0.285 ug/l
RT: 10.430 min Scan# 1440
Delta R.T. 0.006 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

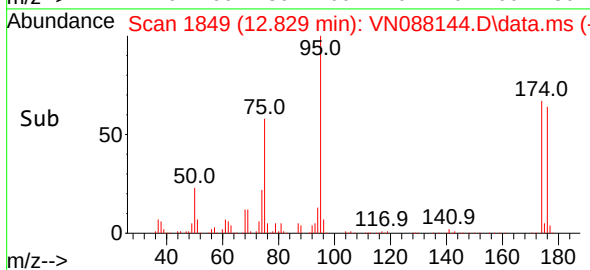
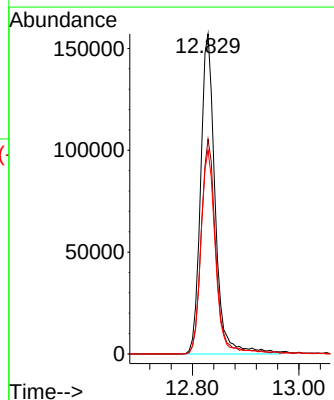
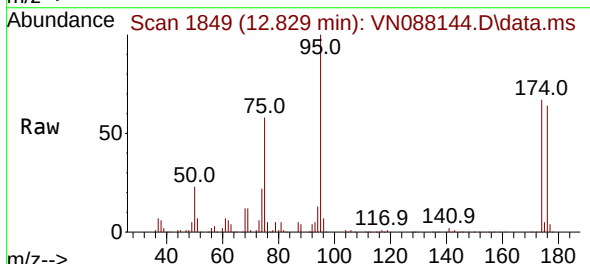
Instrument :
MSVOA_N
ClientSampleId :
MW-13

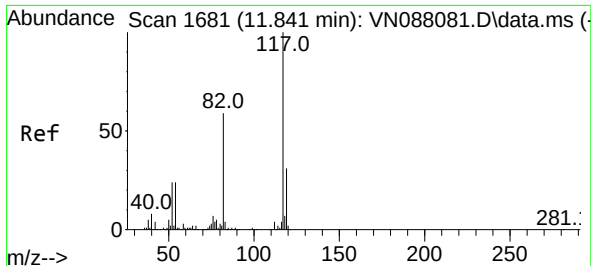
Tgt Ion: 43 Resp: 2048
Ion Ratio Lower Upper
43 100
58 28.7 29.6 44.4#



#62
4-Bromofluorobenzene
Concen: 52.027 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

Tgt Ion: 95 Resp: 297264
Ion Ratio Lower Upper
95 100
174 67.4 0.0 138.4
176 64.0 0.0 132.6

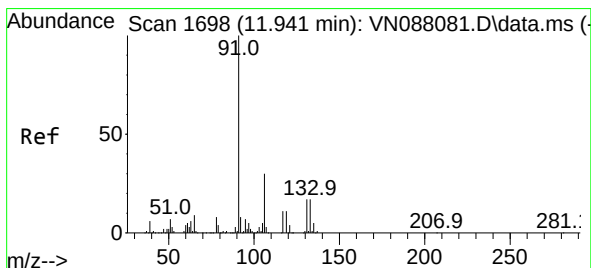
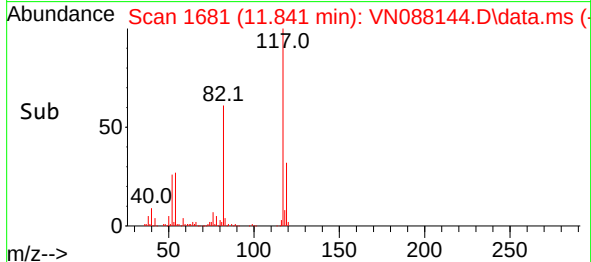
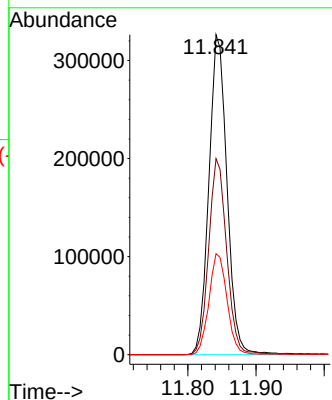
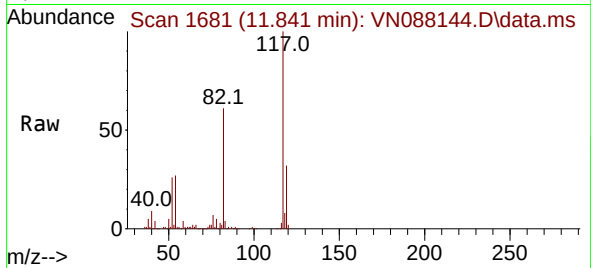




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

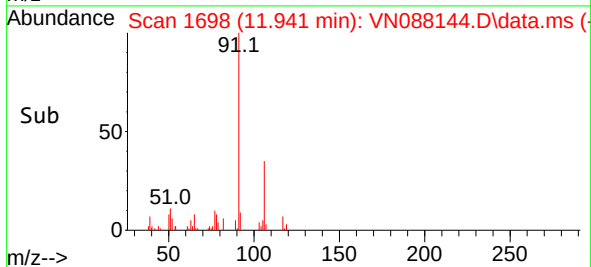
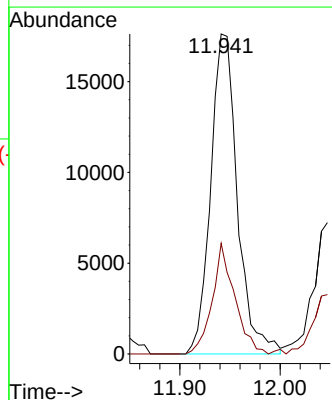
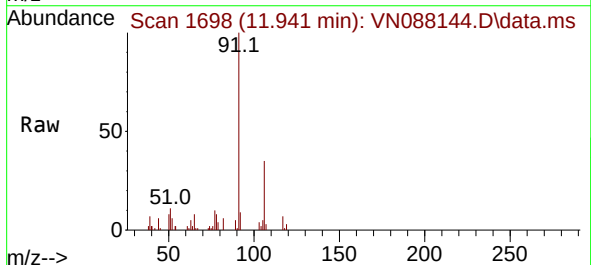
Instrument :
MSVOA_N
ClientSampleId :
MW-13

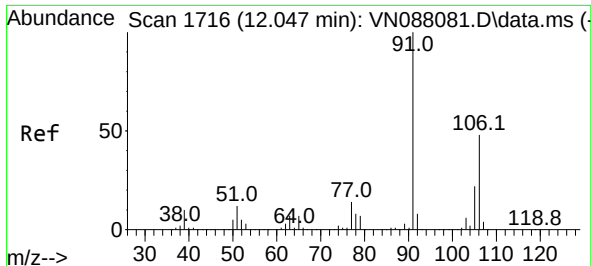
Tgt Ion:117 Resp: 602609
Ion Ratio Lower Upper
117 100
82 61.3 47.4 71.2
119 31.6 24.3 36.5



#67
Ethyl Benzene
Concen: 1.358 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

Tgt Ion: 91 Resp: 32622
Ion Ratio Lower Upper
91 100
106 34.6 24.1 36.1

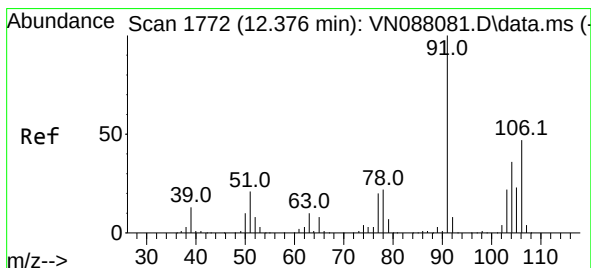
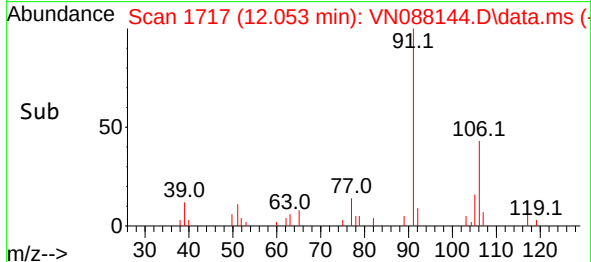
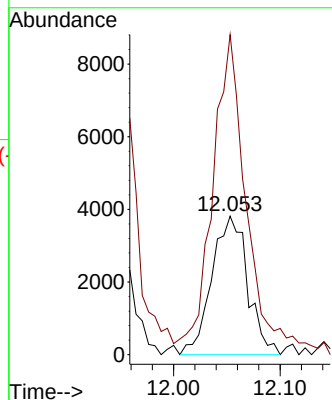
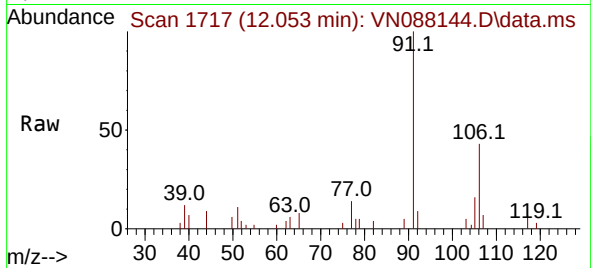




#68
m/p-Xylenes
Concen: 0.993 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. 0.006 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

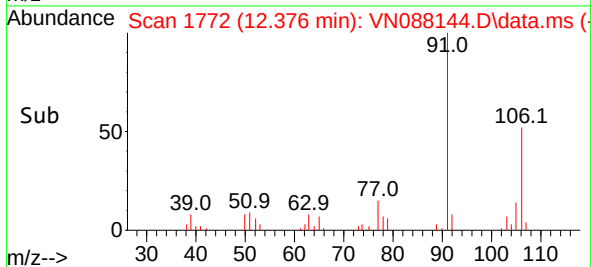
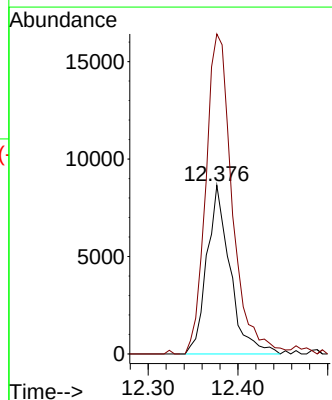
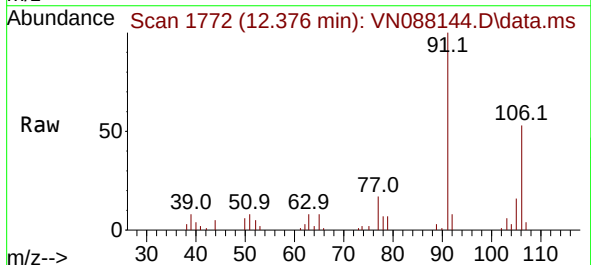
Instrument :
MSVOA_N
ClientSampleId :
MW-13

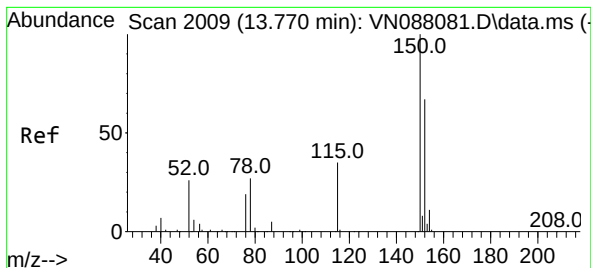
Tgt Ion:106 Resp: 8934
Ion Ratio Lower Upper
106 100
91 221.8 169.3 253.9



#69
o-Xylene
Concen: 1.828 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

Tgt Ion:106 Resp: 15597
Ion Ratio Lower Upper
106 100
91 215.0 111.4 334.2

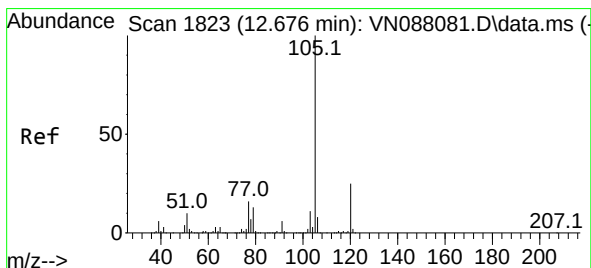
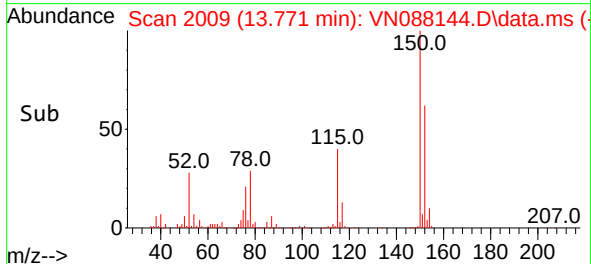
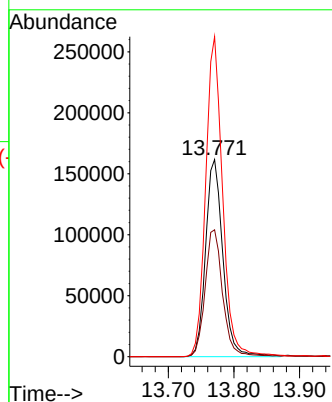
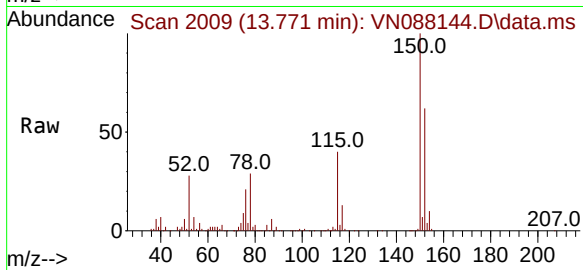




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

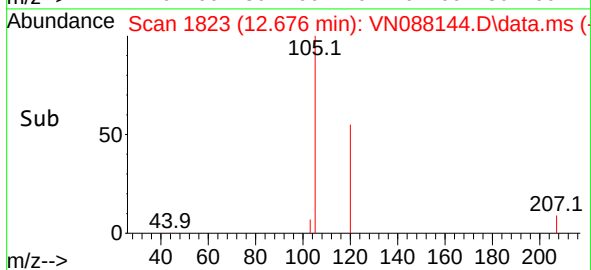
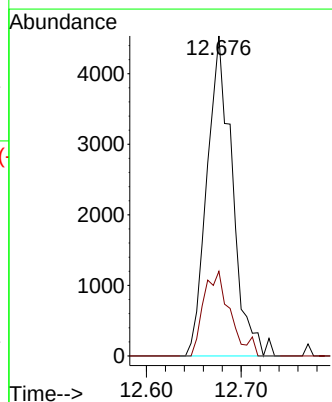
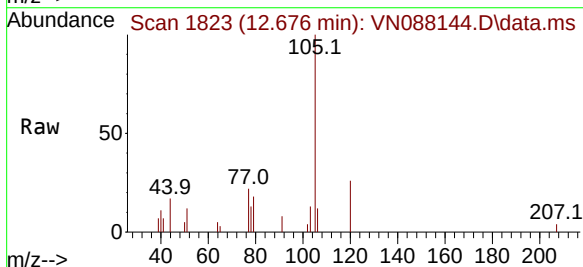
Instrument :
MSVOA_N
ClientSampleId :
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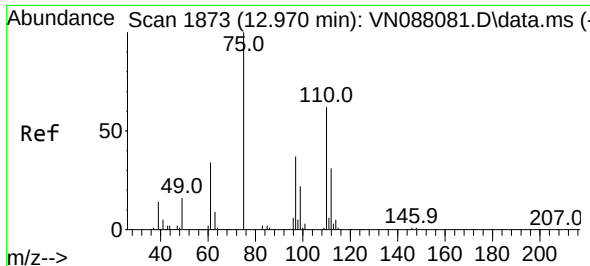
Tgt Ion:152 Resp: 297174
Ion Ratio Lower Upper
152 100
115 65.9 32.3 96.8
150 158.8 0.0 351.0



#73
Isopropylbenzene
Concen: 0.367 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.006 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

Tgt Ion:105 Resp: 8402
Ion Ratio Lower Upper
105 100
120 27.8 12.8 38.3

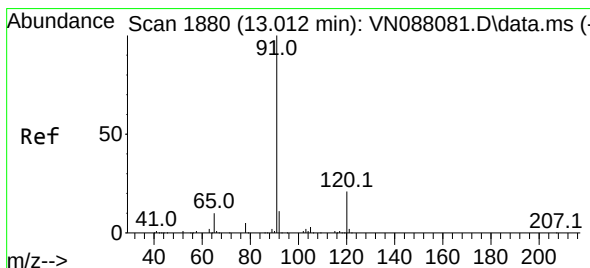
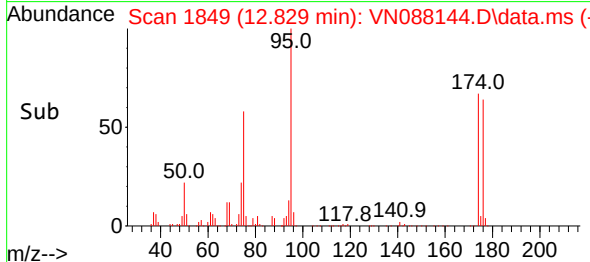
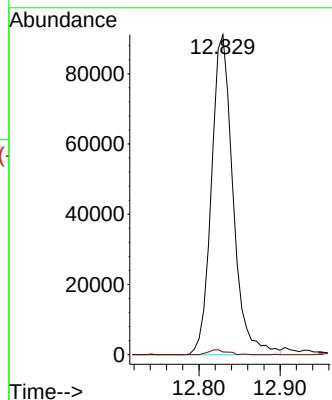
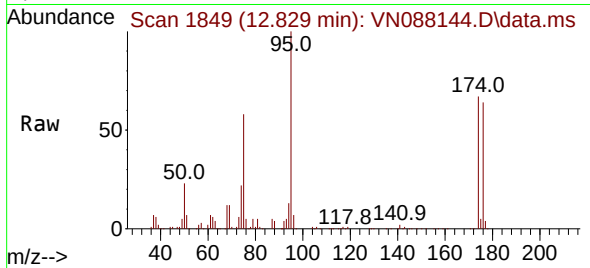




#76
1,2,3-Trichloropropane
Concen: 24.756 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

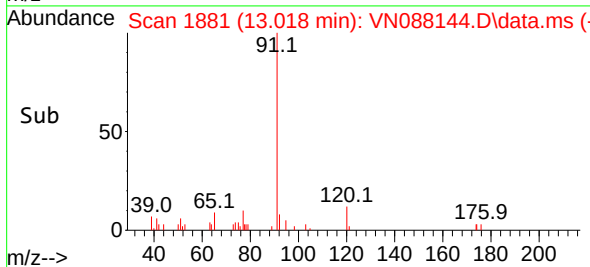
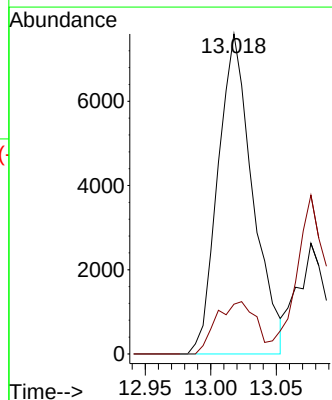
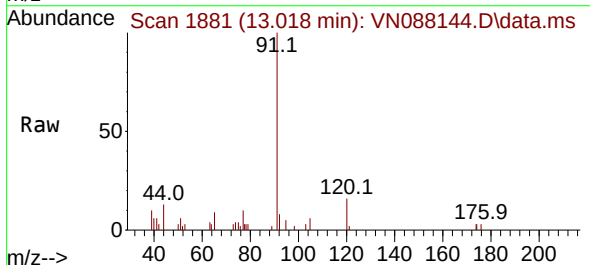
Instrument :
MSVOA_N
ClientSampleId :
MW-13

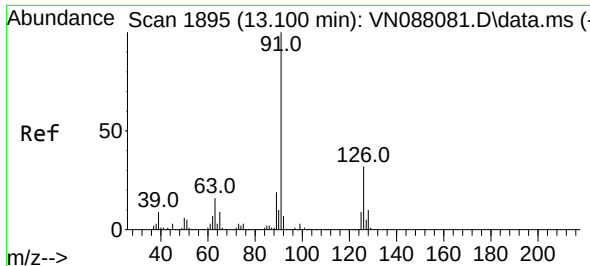
Tgt Ion: 75 Resp: 168202
Ion Ratio Lower Upper
75 100
77 1.3 89.1 267.4#



#78
n-propylbenzene
Concen: 0.501 ug/l
RT: 13.018 min Scan# 1881
Delta R.T. 0.006 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

Tgt Ion: 91 Resp: 14020
Ion Ratio Lower Upper
91 100
120 19.3 10.7 32.1

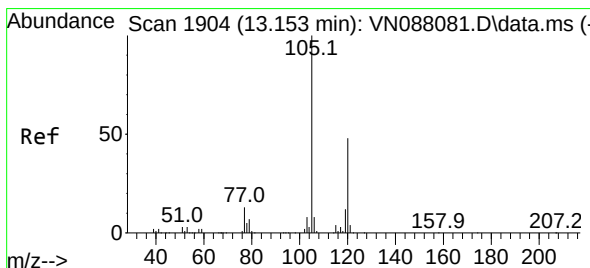
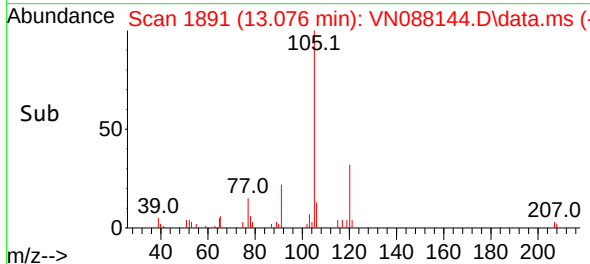
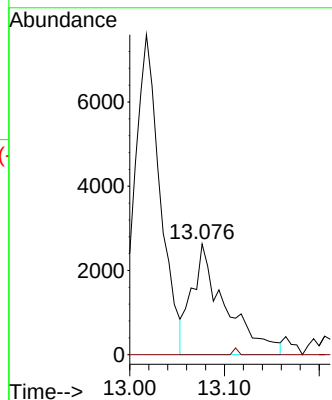
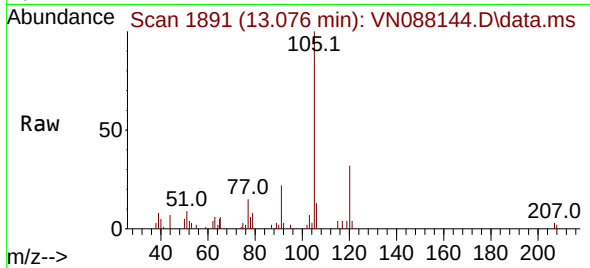




#79
2-Chlorotoluene
Concen: 0.407 ug/l
RT: 13.076 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

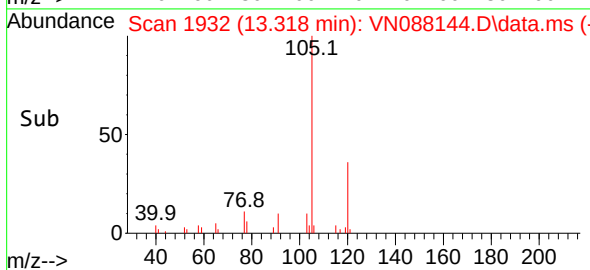
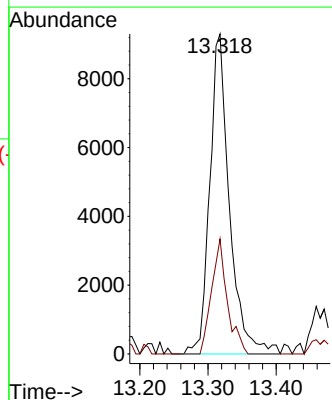
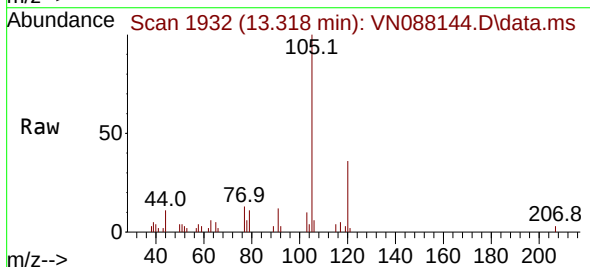
Instrument :
MSVOA_N
ClientSampleId :
MW-13

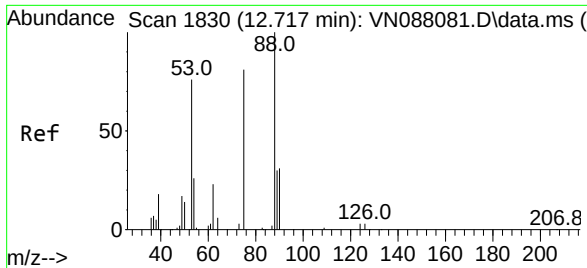
Tgt Ion: 91 Resp: 6489
Ion Ratio Lower Upper
91 100
126 0.0 16.1 48.3#



#80
1,3,5-Trimethylbenzene
Concen: 0.983 ug/l
RT: 13.318 min Scan# 1932
Delta R.T. 0.165 min
Lab File: VN088144.D
Acq: 28 Oct 2025 16:45

Tgt Ion: 105 Resp: 18711
Ion Ratio Lower Upper
105 100
120 28.9 23.2 69.6





#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.058 ug/l
 RT: 12.829 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN088144.D
 Acq: 28 Oct 2025 16:45

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-13

Tgt Ion: 75 Resp: 168202
 Ion Ratio Lower Upper
 75 100
 53 0.0 101.8 152.6#
 89 0.0 35.6 53.4#

