

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102925\
 Data File : VN088161.D
 Acq On : 29 Oct 2025 15:28
 Operator : JC\MD
 Sample : Q3472-04
 Misc : 1.09g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-1

Quant Time: Oct 30 04:08:24 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

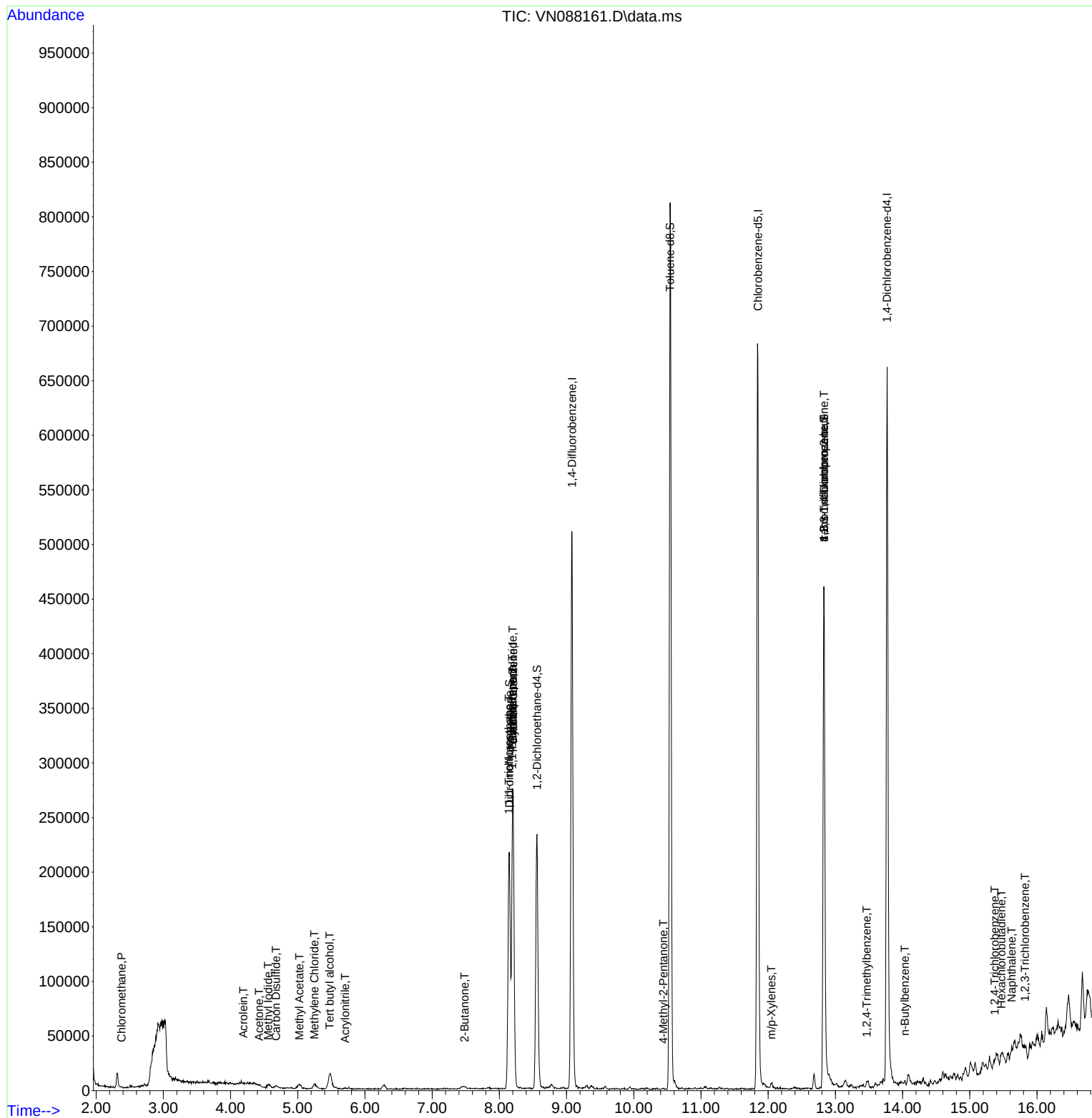
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	184851	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	420673	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	377147	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	172591	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	197651	61.834	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 123.660%	
35) Dibromofluoromethane	8.147	113	151511	53.611	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 107.220%	
50) Toluene-d8	10.541	98	546529	50.189	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 100.380%	
62) 4-Bromofluorobenzene	12.829	95	176361	45.859	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 91.720%	
Target Compounds						Qvalue
3) Chloromethane	2.377	50	791	0.322	ug/l #	42
10) Methyl Iodide	4.559	142	5340	6.465	ug/l	88
11) Tert butyl alcohol	5.477	59	14361	26.079	ug/l #	71
13) Acrolein	4.189	56	724	1.169	ug/l #	65
15) Acrylonitrile	5.706	53	623	0.415	ug/l #	37
16) Acetone	4.424	43	552	0.344	ug/l #	60
17) Carbon Disulfide	4.677	76	3440	0.487	ug/l #	74
18) Methyl Acetate	5.024	43	9117	2.773	ug/l	94
20) Methylene Chloride	5.247	84	1996	1.559	ug/l #	68
25) 2-Butanone	7.483	43	1153	0.545	ug/l #	50
31) Cyclohexane	8.200	56	6564	1.467	ug/l #	6
32) 1,1,1-Trichloroethane	8.141	97	9663	2.289	ug/l #	44
36) 1,1-Dichloropropene	8.194	75	18321	4.440	ug/l #	52
38) Carbon Tetrachloride	8.200	117	23150	5.432	ug/l #	14
51) 4-Methyl-2-Pentanone	10.441	43	1219	0.252	ug/l #	38
68) m/p-Xylenes	12.047	106	1336	0.237	ug/l	96
76) 1,2,3-Trichloropropane	12.829	75	108140	27.405	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	108140	76.448	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.465	105	2764	0.250	ug/l	94
89) n-Butylbenzene	14.035	91	3641	0.316	ug/l	79
93) 1,2,4-Trichlorobenzene	15.370	180	1515	0.453	ug/l #	56
94) Hexachlorobutadiene	15.470	225	1019	0.818	ug/l	94
95) Naphthalene	15.623	128	13852	1.209	ug/l	94
96) 1,2,3-Trichlorobenzene	15.823	180	2325	0.725	ug/l #	66

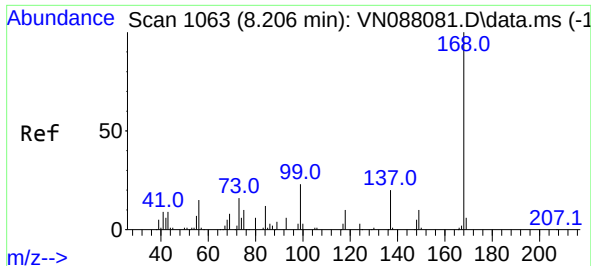
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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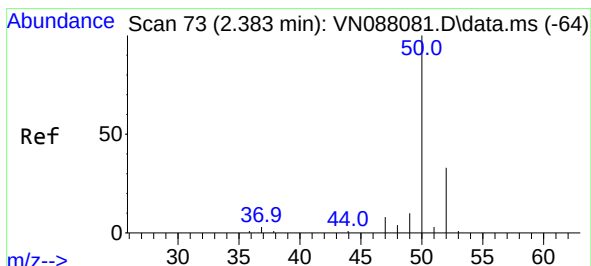
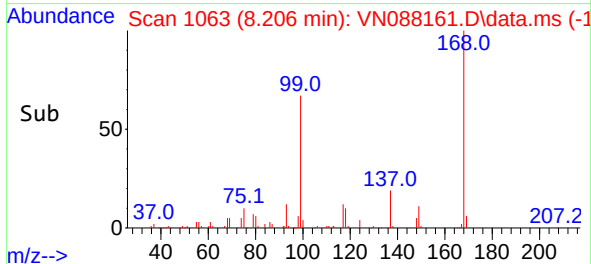
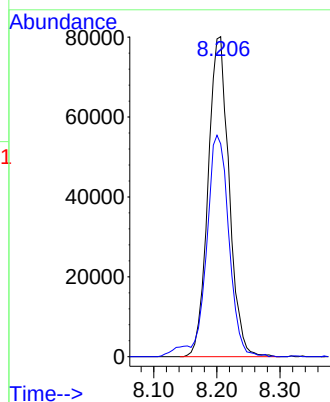
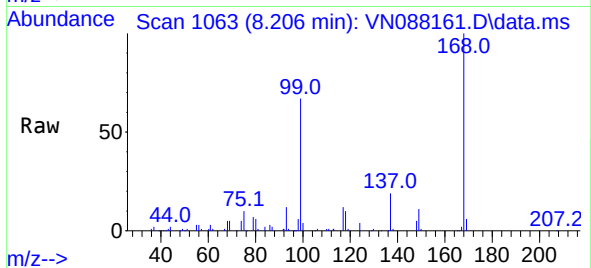




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

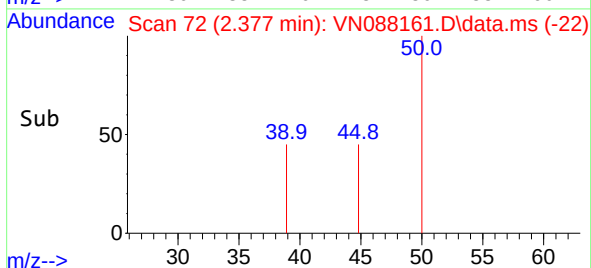
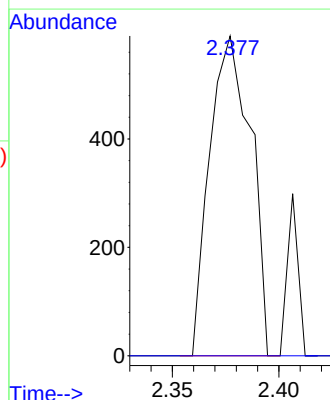
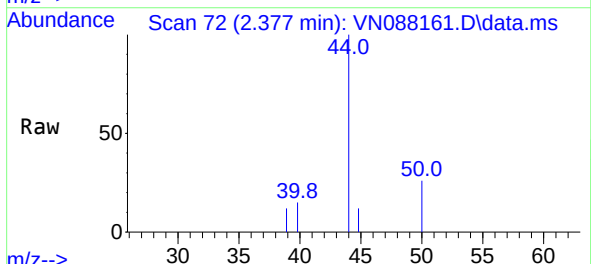
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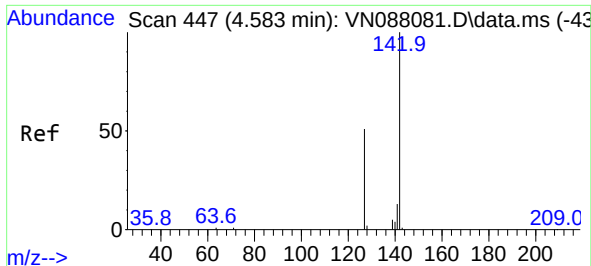
Tgt Ion:168 Resp: 184851
Ion Ratio Lower Upper
168 100
99 66.5 57.2 85.8



#3
Chloromethane
Concen: 0.322 ug/l
RT: 2.377 min Scan# 72
Delta R.T. -0.006 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

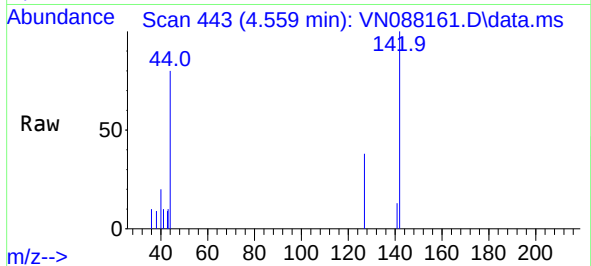
Tgt Ion: 50 Resp: 791
Ion Ratio Lower Upper
50 100
52 0.0 26.2 39.4#



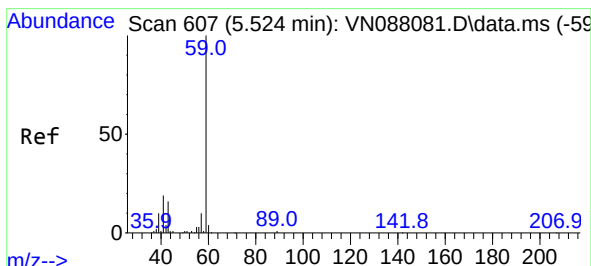
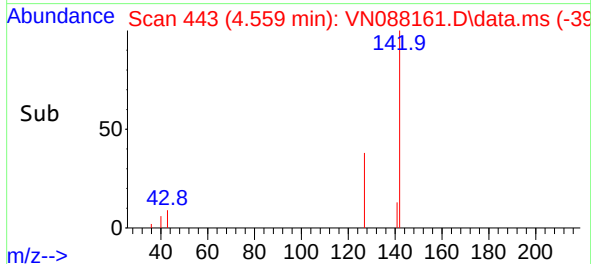
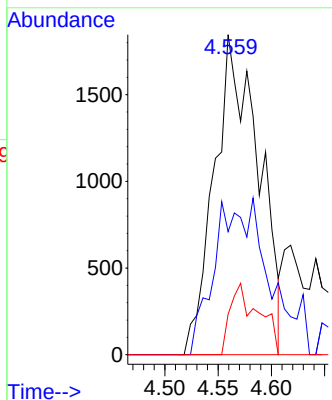


#10
Methyl Iodide
Concen: 6.465 ug/l
RT: 4.559 min Scan# 443
Delta R.T. -0.018 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

Instrument :
MSVOA_N
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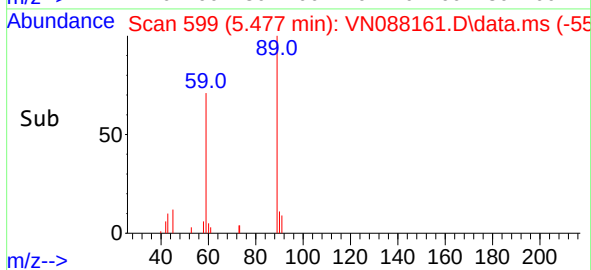
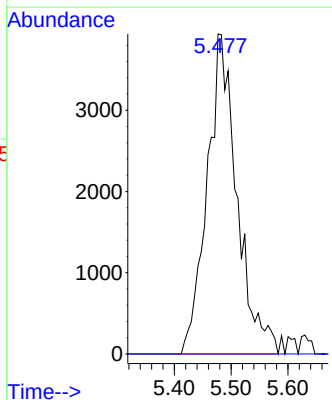
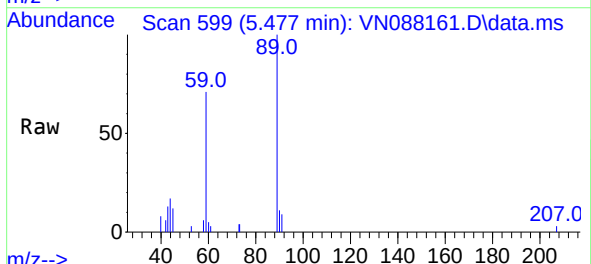


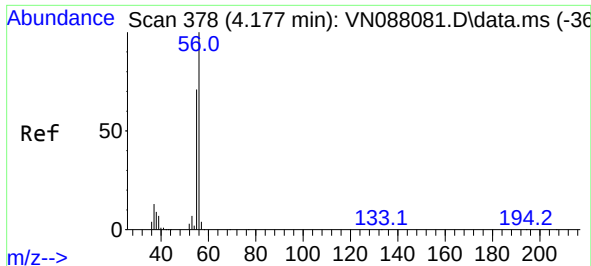
Tgt Ion:142 Resp: 5340
Ion Ratio Lower Upper
142 100
127 38.5 38.0 57.0
141 12.7 12.0 18.0



#11
Tert butyl alcohol
Concen: 26.079 ug/l
RT: 5.477 min Scan# 599
Delta R.T. -0.041 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

Tgt Ion: 59 Resp: 14361
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#

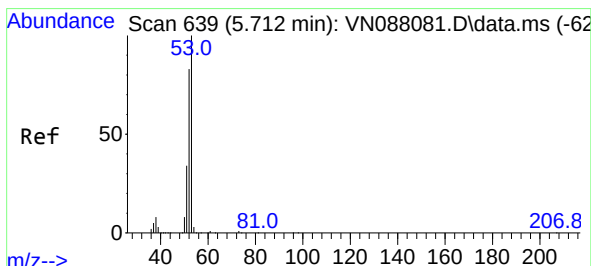
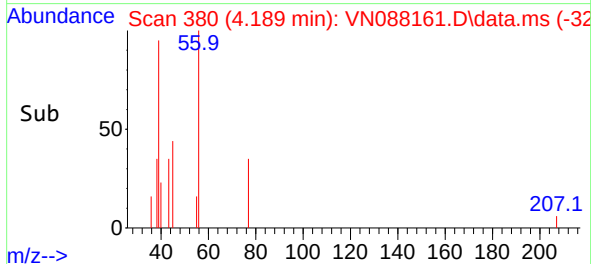
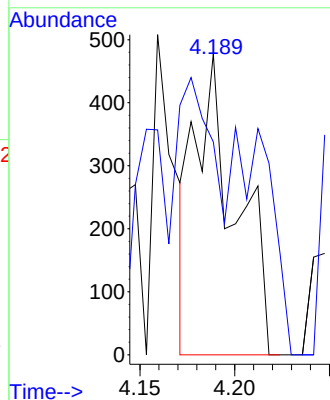
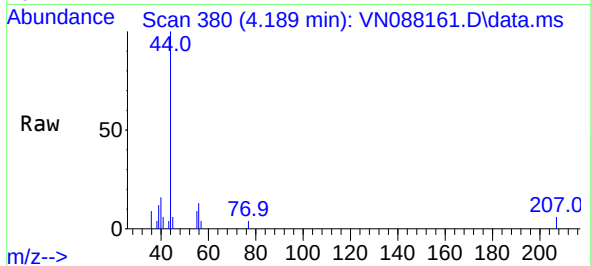




#13
Acrolein
Concen: 1.169 ug/l
RT: 4.189 min Scan# 31
Delta R.T. 0.018 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

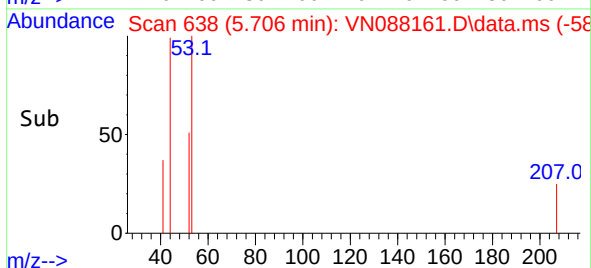
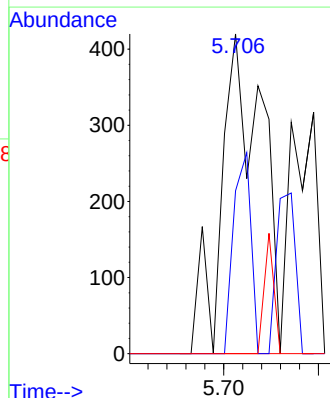
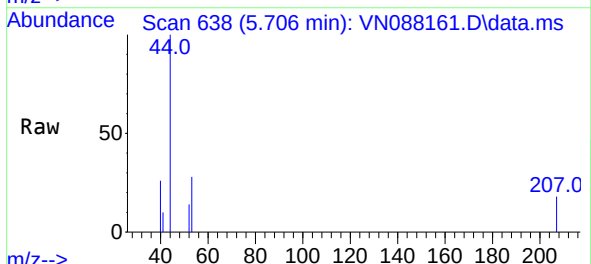
Instrument :
MSVOA_N
ClientSampleId :
COMP-1

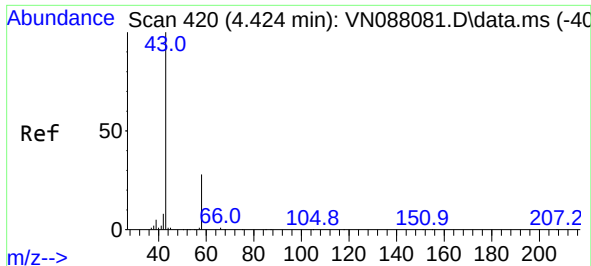
Tgt Ion: 56 Resp: 724
Ion Ratio Lower Upper
56 100
55 42.8 57.3 85.9#



#15
Acrylonitrile
Concen: 0.415 ug/l
RT: 5.706 min Scan# 638
Delta R.T. -0.000 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

Tgt Ion: 53 Resp: 623
Ion Ratio Lower Upper
53 100
52 27.1 67.6 101.4#
51 0.0 30.1 45.1#

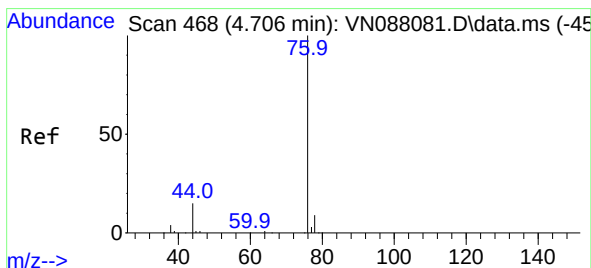
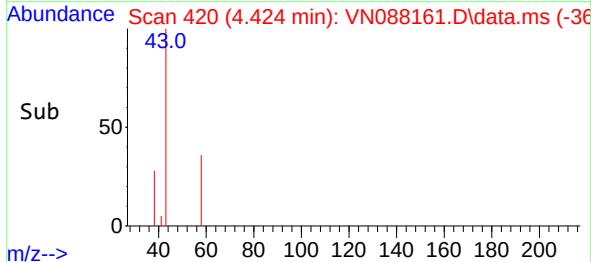
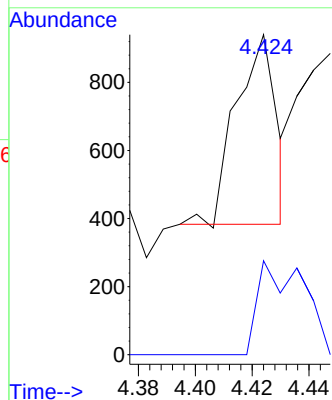
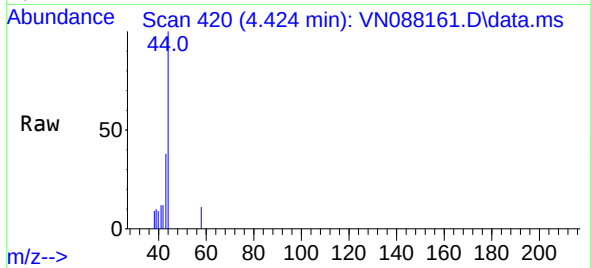




#16
Acetone
Concen: 0.344 ug/l
RT: 4.424 min Scan# 431
Delta R.T. -0.000 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

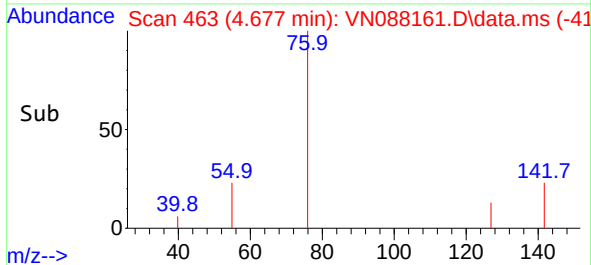
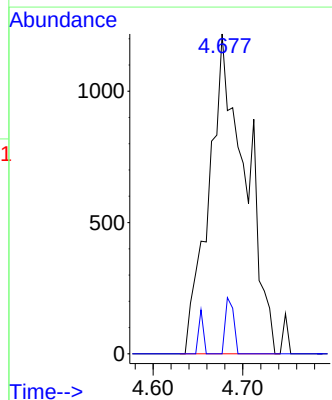
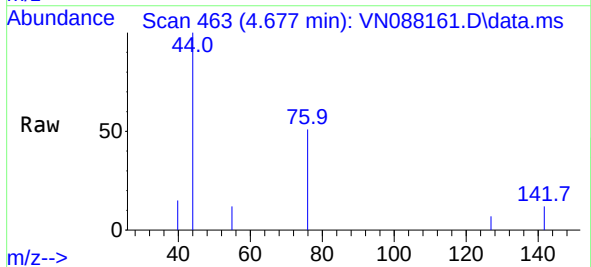
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MSVOA_N
ClientSampleId :
COMP-1

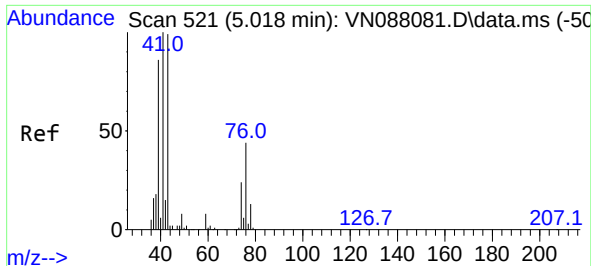
Tgt Ion: 43 Resp: 552
Ion Ratio Lower Upper
43 100
58 49.6 22.6 33.8#



#17
Carbon Disulfide
Concen: 0.487 ug/l
RT: 4.677 min Scan# 463
Delta R.T. -0.024 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

Tgt Ion: 76 Resp: 3440
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#

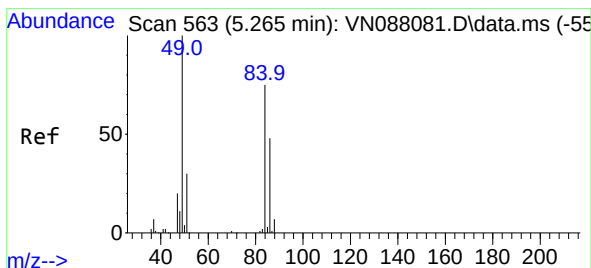
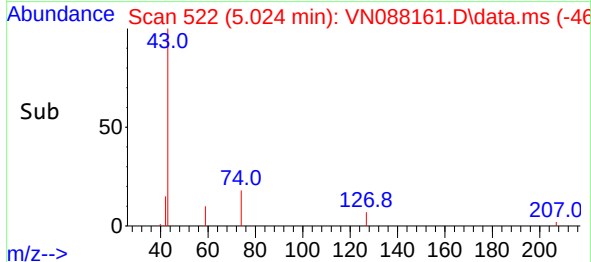
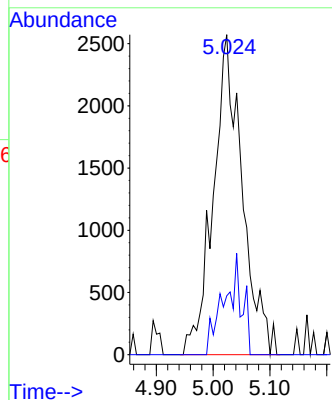
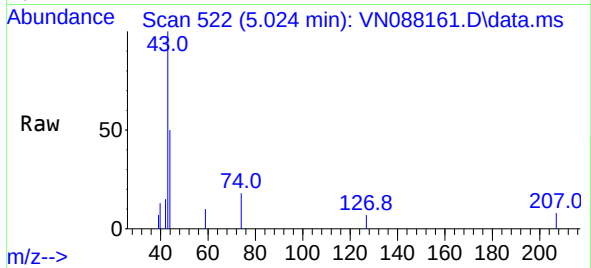




#18
Methyl Acetate
Concen: 2.773 ug/l
RT: 5.024 min Scan# 511
Delta R.T. 0.012 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

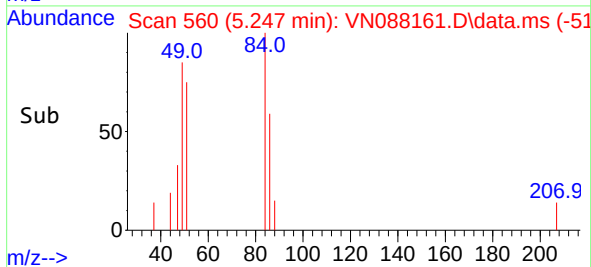
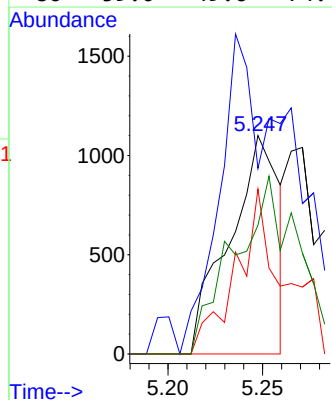
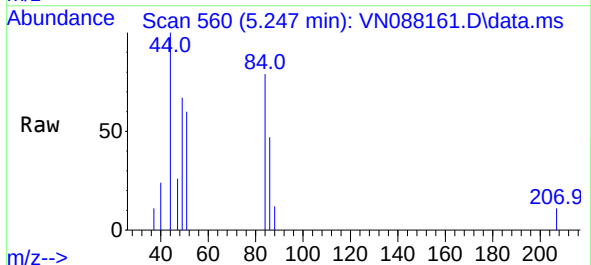
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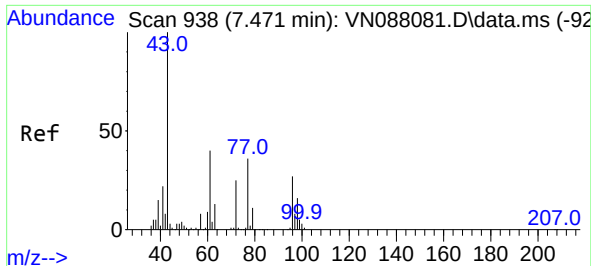
Tgt Ion: 43 Resp: 9117
Ion Ratio Lower Upper
43 100
74 19.2 17.6 26.4



#20
Methylene Chloride
Concen: 1.559 ug/l
RT: 5.247 min Scan# 560
Delta R.T. -0.018 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

Tgt Ion: 84 Resp: 1996
Ion Ratio Lower Upper
84 100
49 85.0 103.4 155.2#
51 75.5 33.8 50.8#
86 59.0 49.6 74.4

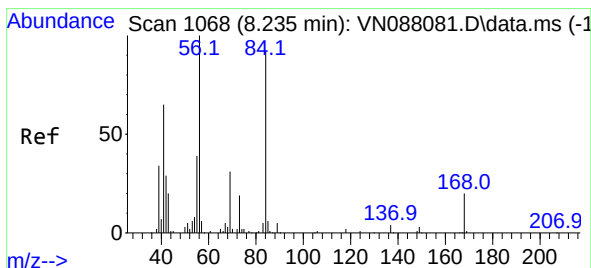
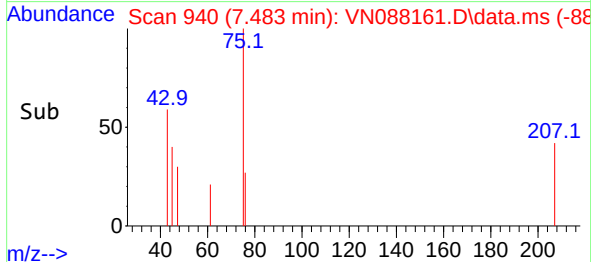
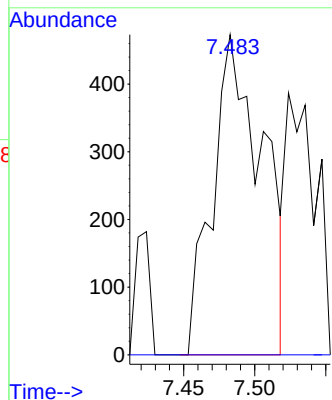
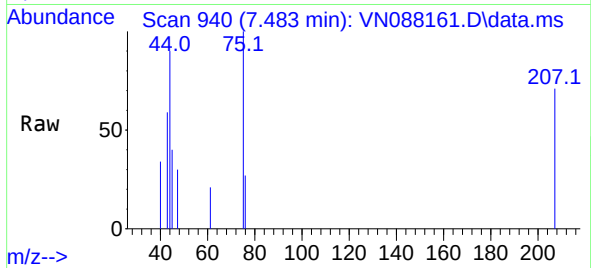




#25
2-Butanone
Concen: 0.545 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.018 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

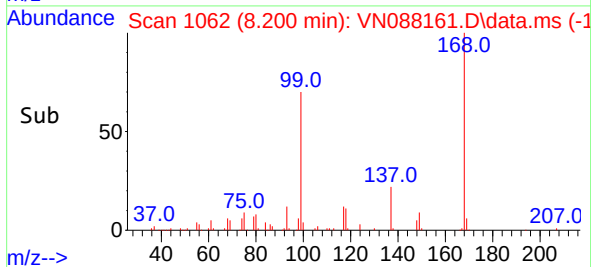
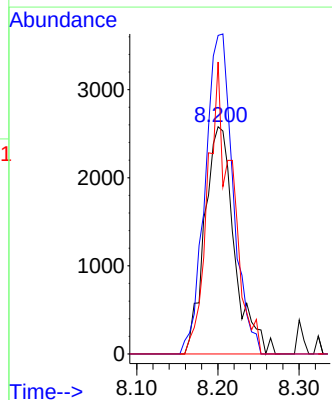
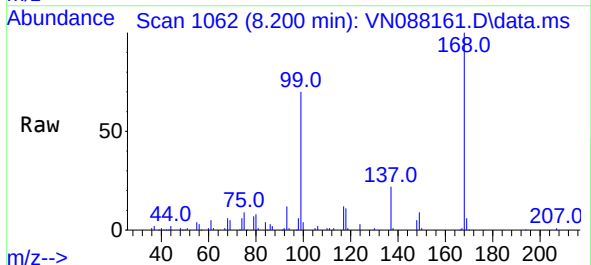
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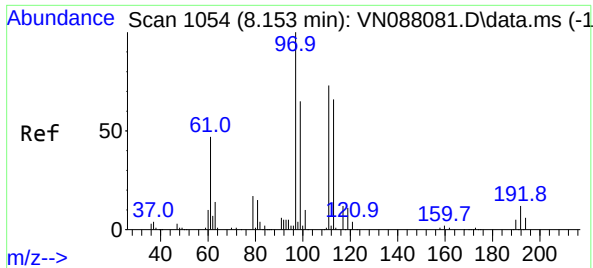
Tgt Ion: 43 Resp: 1153
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#31
Cyclohexane
Concen: 1.467 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.035 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

Tgt Ion: 56 Resp: 6564
Ion Ratio Lower Upper
56 100
69 140.2 23.7 35.5#
84 128.5 64.7 97.1#

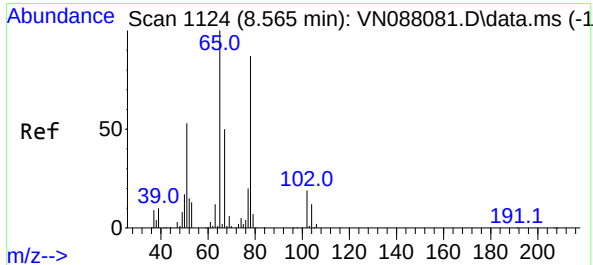
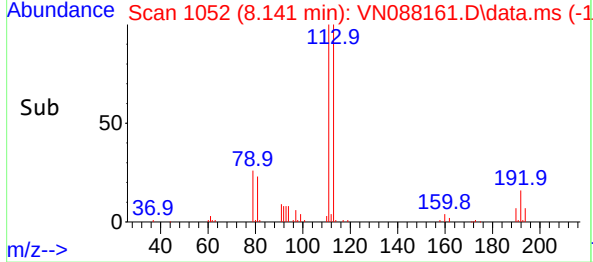
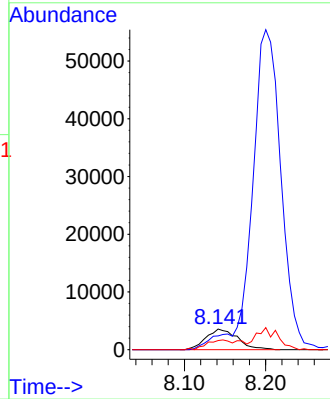
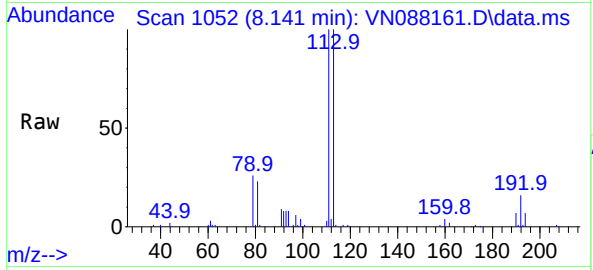




#32
1,1,1-Trichloroethane
Concen: 2.289 ug/l
RT: 8.141 min Scan# 1052
Delta R.T. -0.012 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

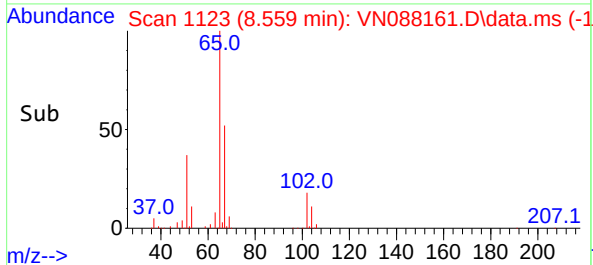
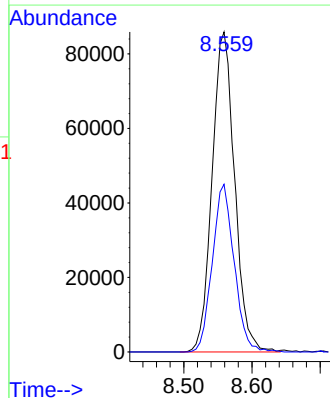
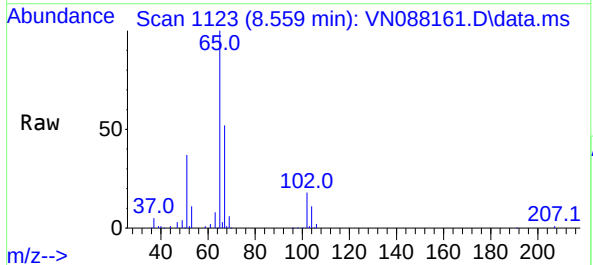
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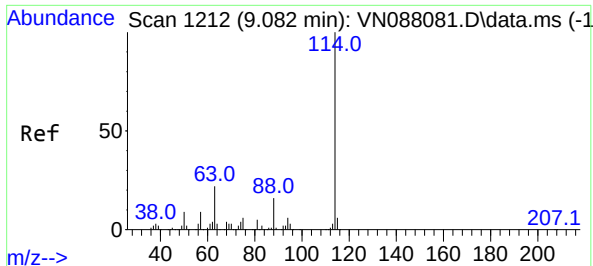
Tgt Ion: 97 Resp: 9663
Ion Ratio Lower Upper
97 100
99 0.0 52.2 78.2#
61 36.5 41.2 61.8#



#33
1,2-Dichloroethane-d4
Concen: 61.834 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

Tgt Ion: 65 Resp: 197651
Ion Ratio Lower Upper
65 100
67 50.8 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN088161.D

Acq: 29 Oct 2025 15:28

Instrument :

MSVOA_N

ClientSampleId :

COMP-1

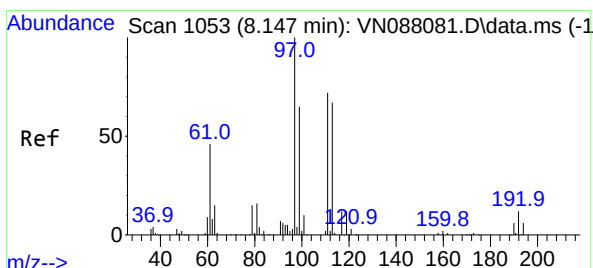
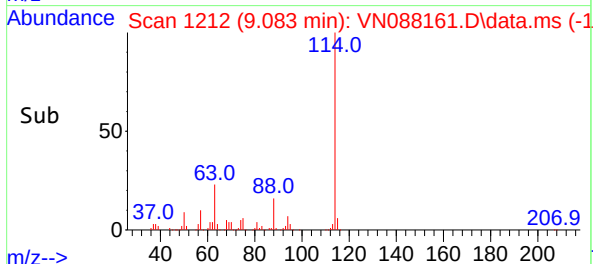
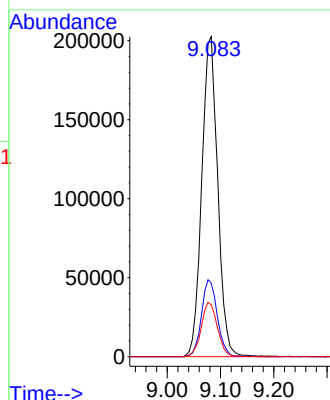
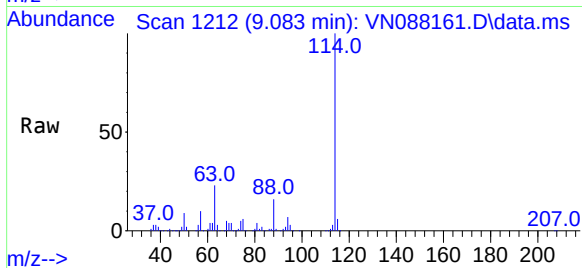
Tgt Ion:114 Resp: 420673

Ion Ratio Lower Upper

114 100

63 23.0 0.0 45.2

88 16.2 0.0 33.4



#35

Dibromofluoromethane

Concen: 53.611 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088161.D

Acq: 29 Oct 2025 15:28

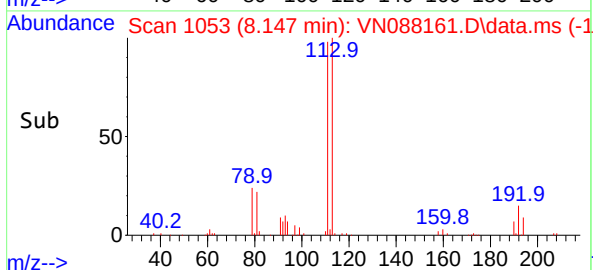
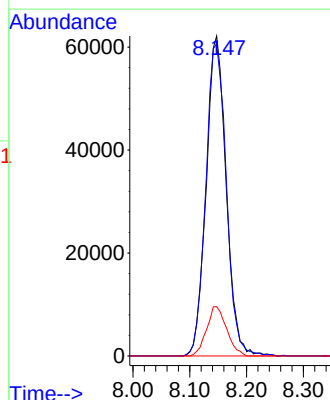
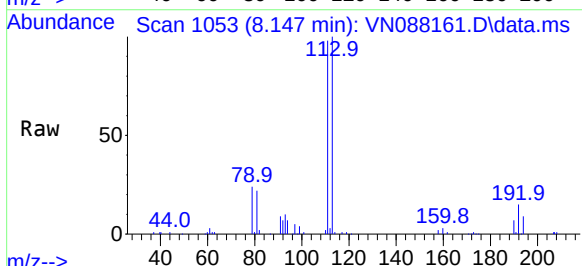
Tgt Ion:113 Resp: 151511

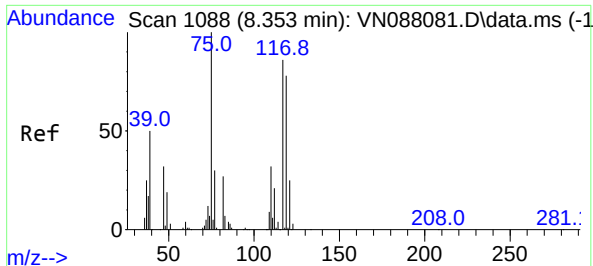
Ion Ratio Lower Upper

113 100

111 100.5 82.8 124.2

192 15.5 12.8 19.2

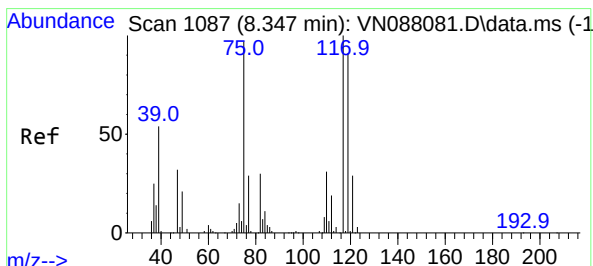
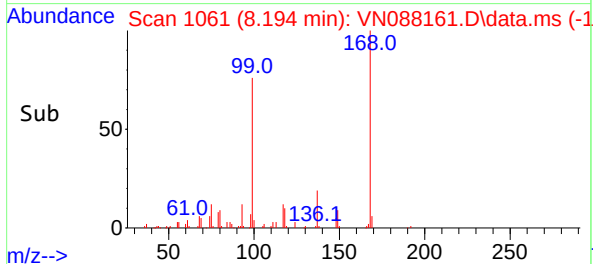
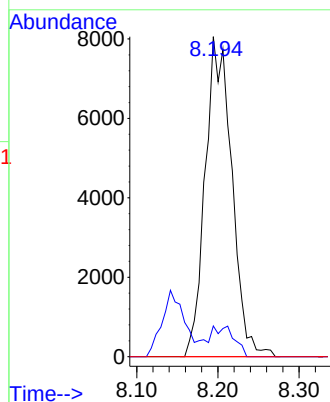
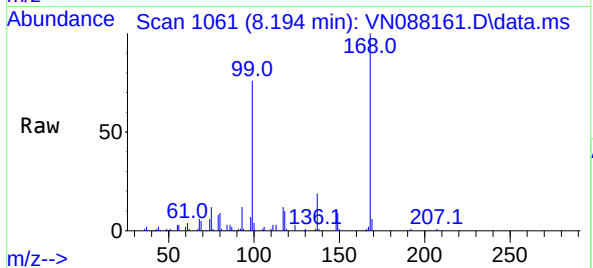




#36
1,1-Dichloropropene
Concen: 4.440 ug/l
RT: 8.194 min Scan# 1061
Delta R.T. -0.159 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

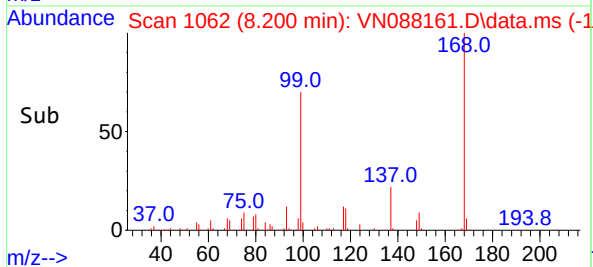
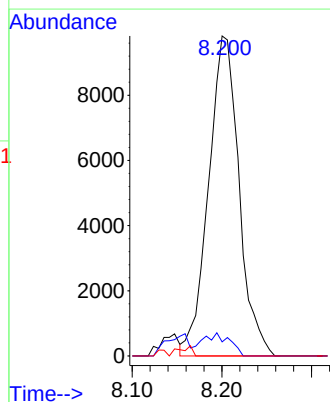
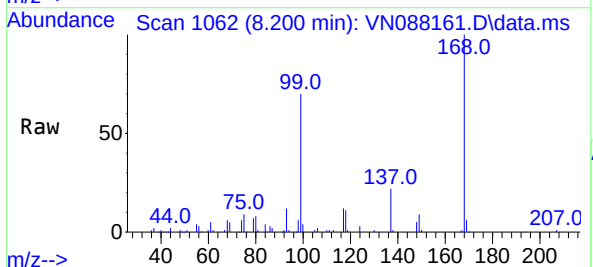
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MSVOA_N
ClientSampleId :
COMP-1

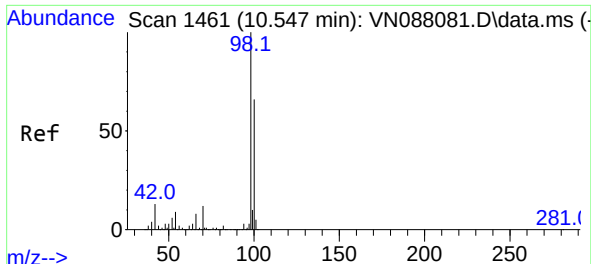
Tgt Ion: 75 Resp: 18321
Ion Ratio Lower Upper
75 100
110 9.1 15.9 47.6#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 5.432 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.141 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

Tgt Ion: 117 Resp: 23150
Ion Ratio Lower Upper
117 100
119 4.4 79.0 118.6#
121 0.0 25.0 37.6#

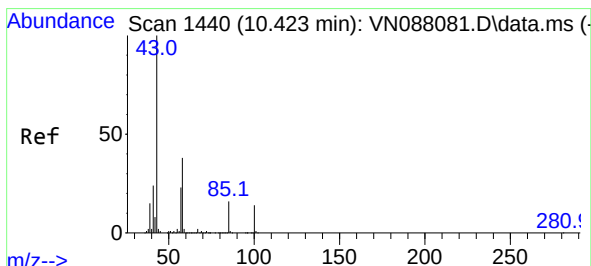
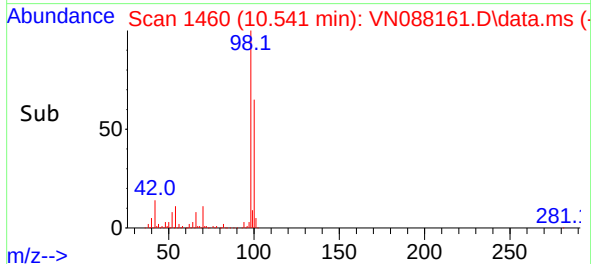
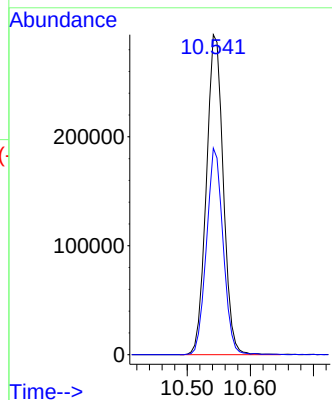
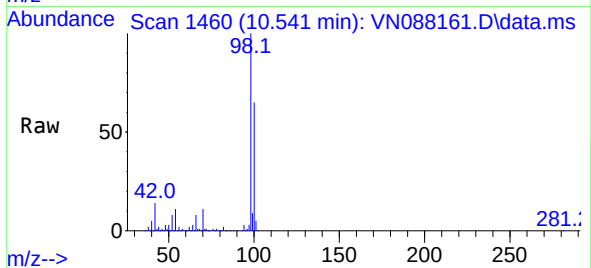




#50
Toluene-d8
Concen: 50.189 ug/l
RT: 10.541 min Scan# 1461
Delta R.T. -0.006 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

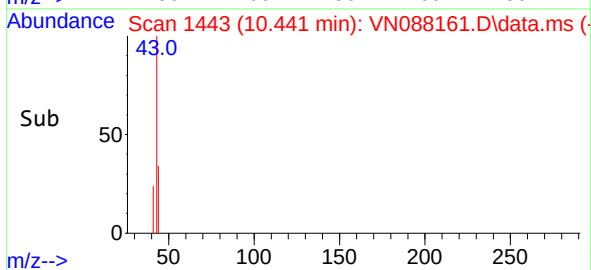
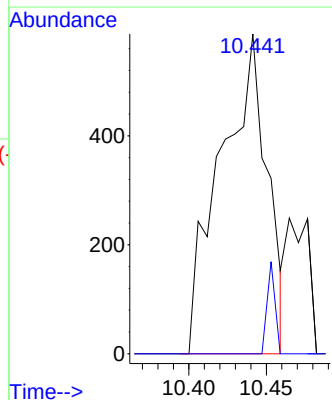
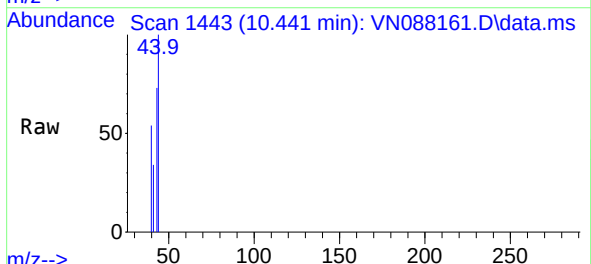
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MSVOA_N
ClientSampleId :
COMP-1

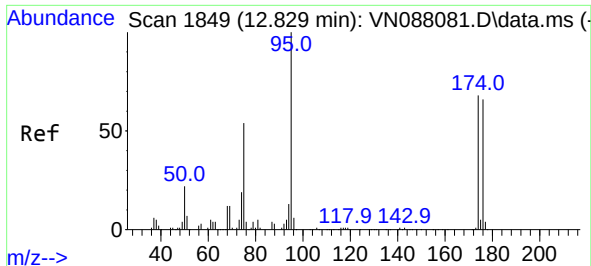
Tgt Ion: 98 Resp: 546529
Ion Ratio Lower Upper
98 100
100 63.4 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 0.252 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.018 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

Tgt Ion: 43 Resp: 1219
Ion Ratio Lower Upper
43 100
58 0.0 29.6 44.4#

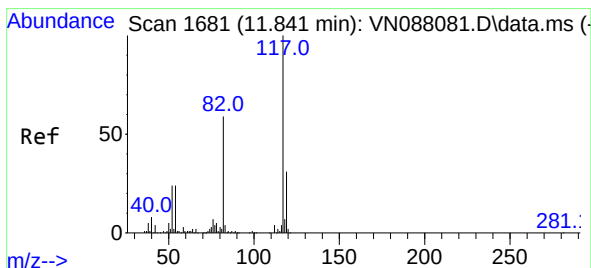
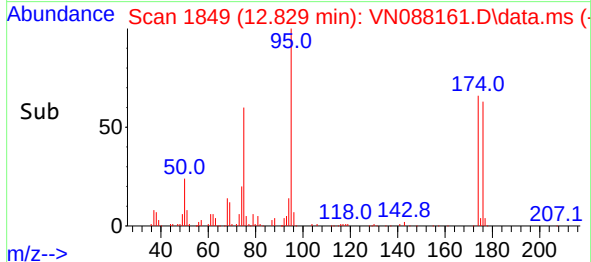
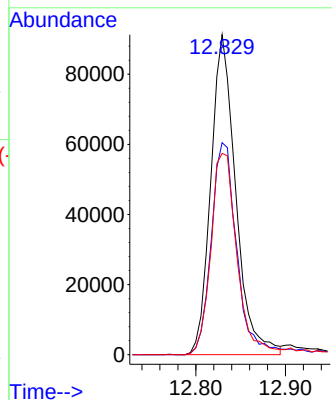
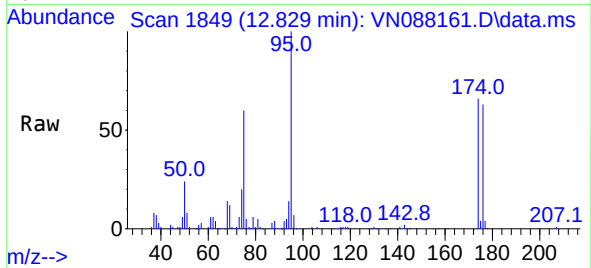




#62
4-Bromofluorobenzene
Concen: 45.859 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

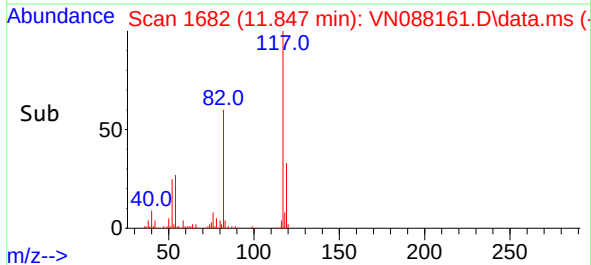
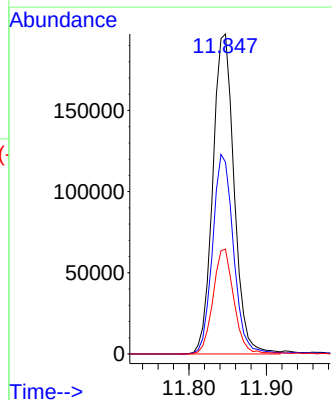
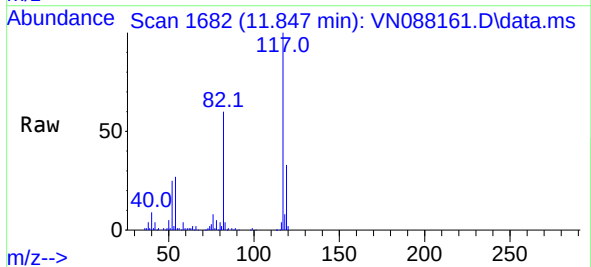
Instrument :
MSVOA_N
ClientSampleId :
COMP-1

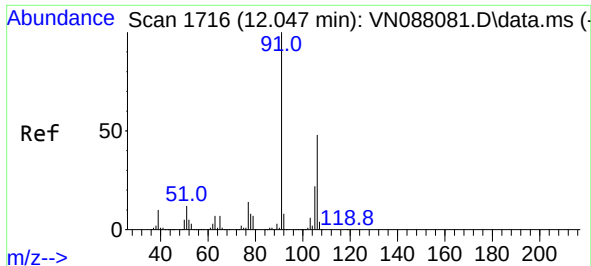
Tgt Ion: 95 Resp: 176361
Ion Ratio Lower Upper
95 100
174 69.1 0.0 138.4
176 68.3 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

Tgt Ion: 117 Resp: 377147
Ion Ratio Lower Upper
117 100
82 59.9 47.4 71.2
119 32.7 24.3 36.5

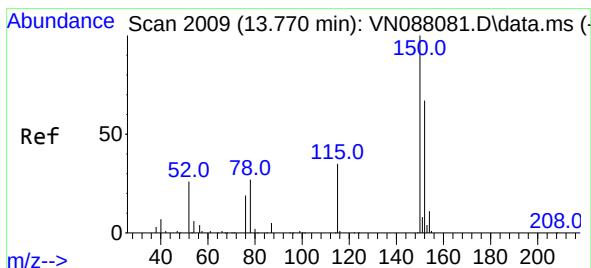
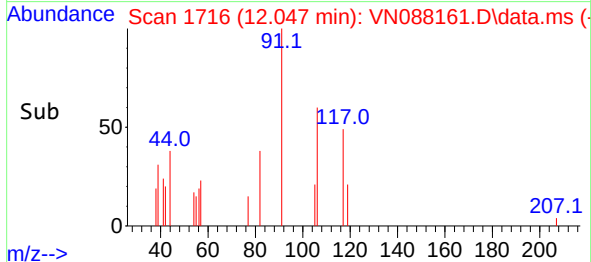
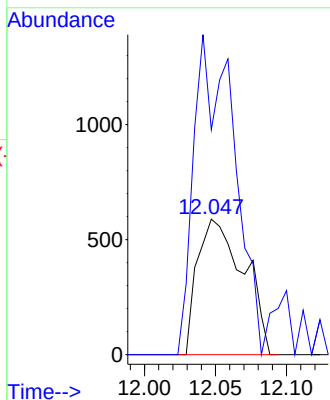
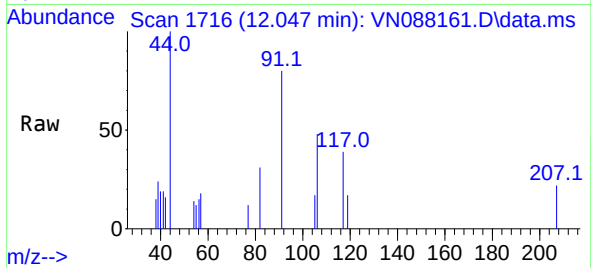




#68
m/p-Xylenes
Concen: 0.237 ug/l
RT: 12.047 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

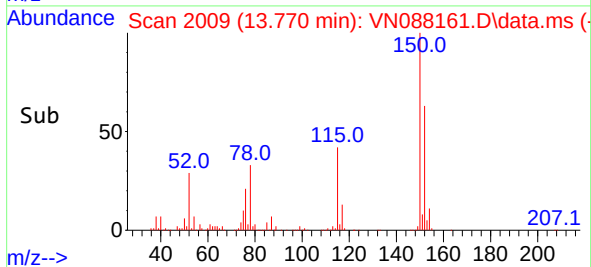
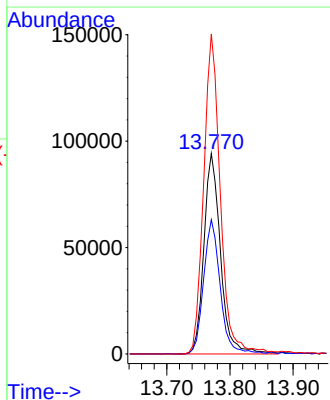
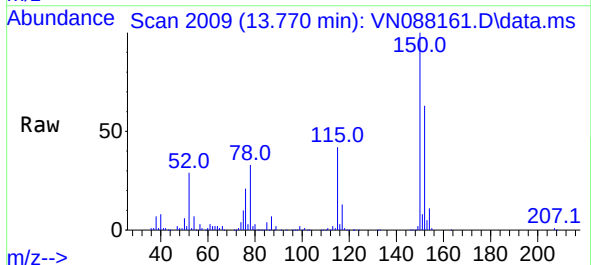
Instrument :
MSVOA_N
ClientSampleId :
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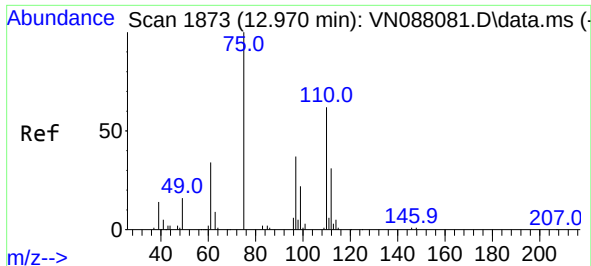
Tgt Ion:106 Resp: 1336
Ion Ratio Lower Upper
106 100
91 206.1 169.3 253.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

Tgt Ion:152 Resp: 172591
Ion Ratio Lower Upper
152 100
115 66.8 32.3 96.8
150 160.1 0.0 351.0

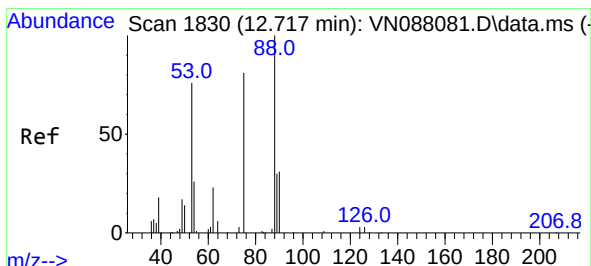
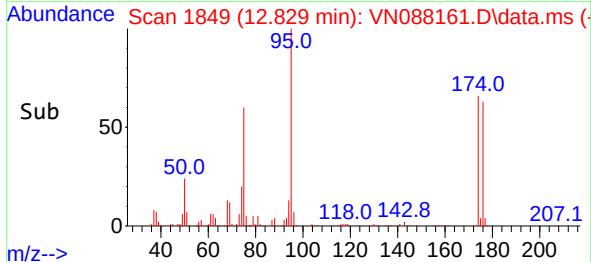
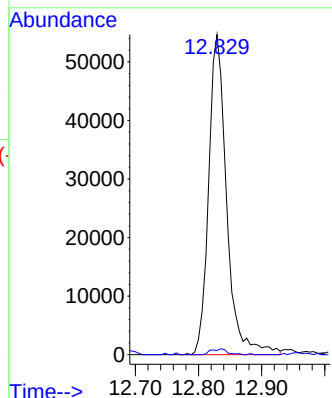
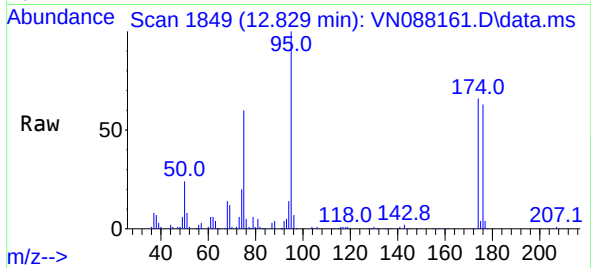




#76
1,2,3-Trichloropropane
Concen: 27.405 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

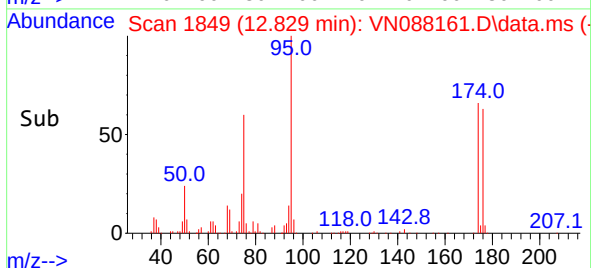
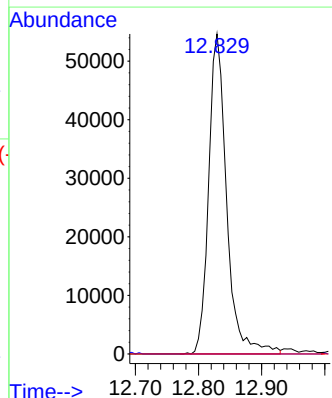
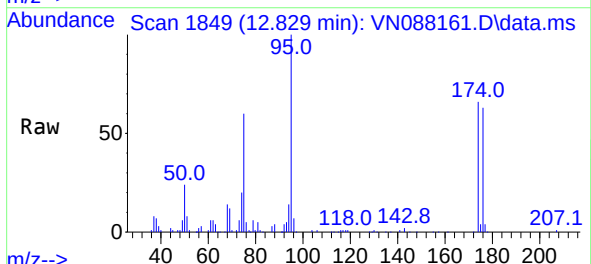
Instrument :
MSVOA_N
ClientSampleId :
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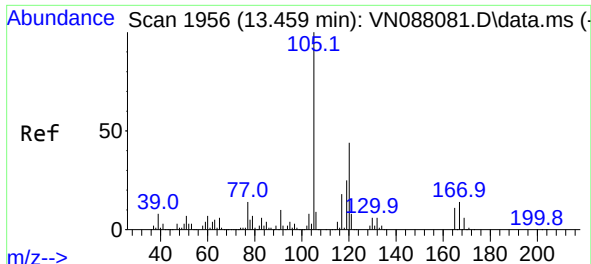
Tgt Ion: 75 Resp: 108140
Ion Ratio Lower Upper
75 100
77 1.7 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 76.448 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

Tgt Ion: 75 Resp: 108140
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.0 35.6 53.4#

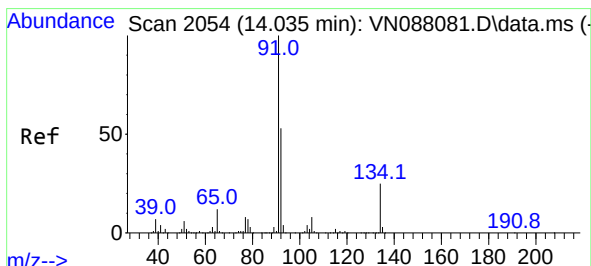
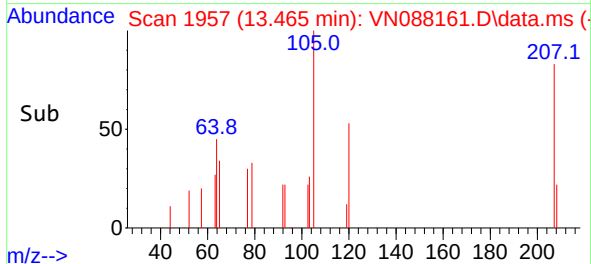
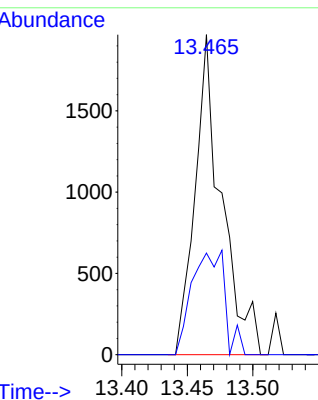
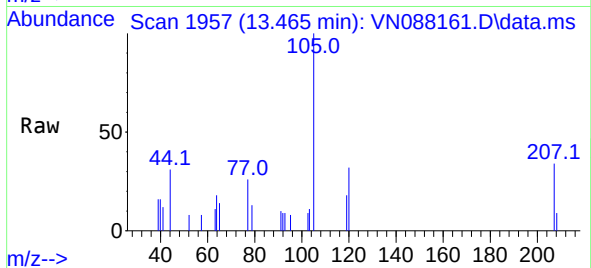




#84
1,2,4-Trimethylbenzene
Concen: 0.250 ug/l
RT: 13.465 min Scan# 1956
Delta R.T. 0.006 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

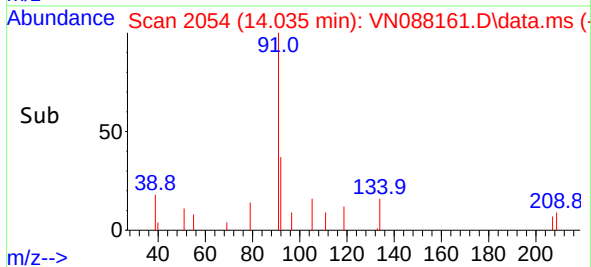
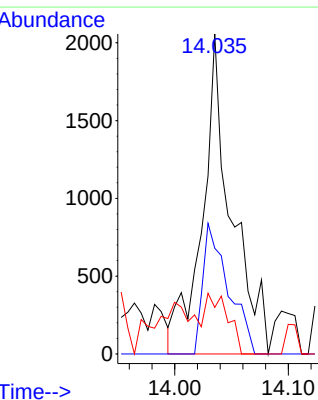
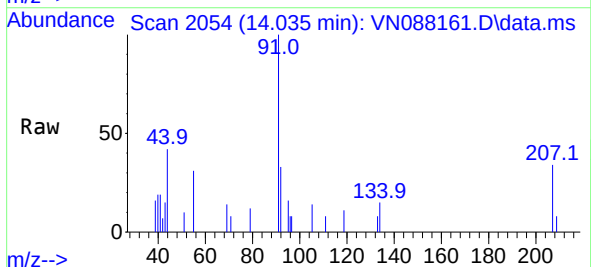
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ClientSampleId :
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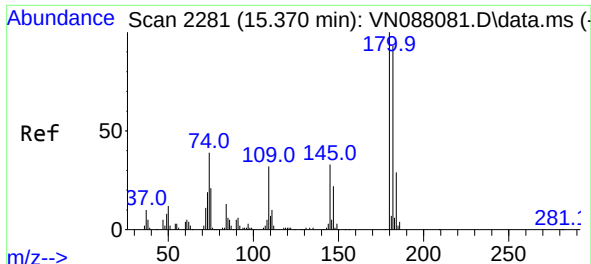
Tgt Ion:105 Resp: 2764
Ion Ratio Lower Upper
105 100
120 40.2 22.0 66.0



#89
n-Butylbenzene
Concen: 0.316 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.006 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

Tgt Ion: 91 Resp: 3641
Ion Ratio Lower Upper
91 100
92 35.9 25.9 77.8
134 14.3 11.7 35.0

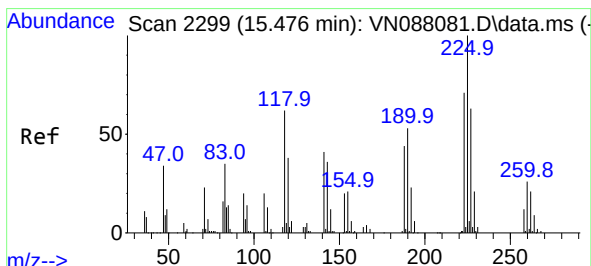
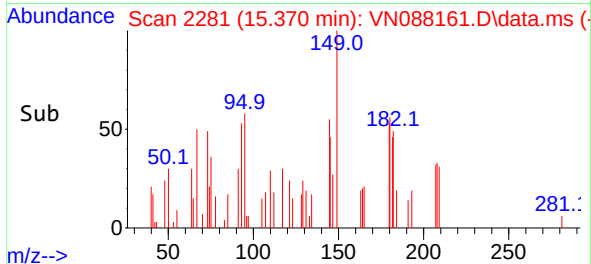
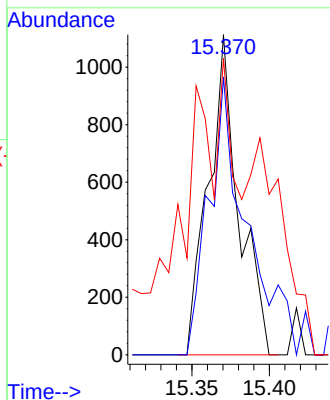
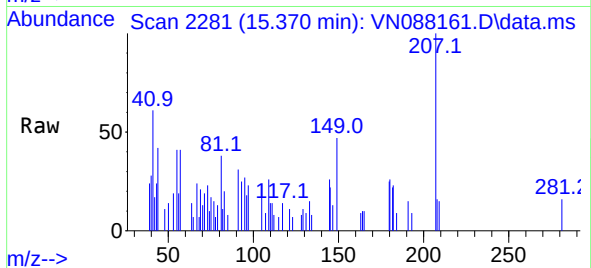




#93
1,2,4-Trichlorobenzene
Concen: 0.453 ug/l
RT: 15.370 min Scan# 2281
Delta R.T. 0.006 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

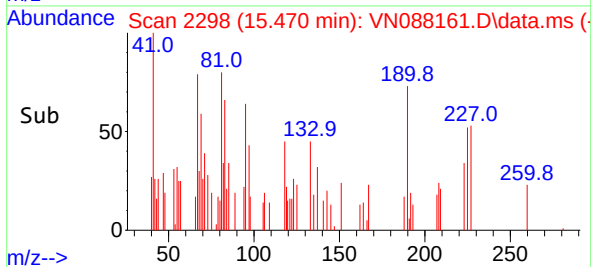
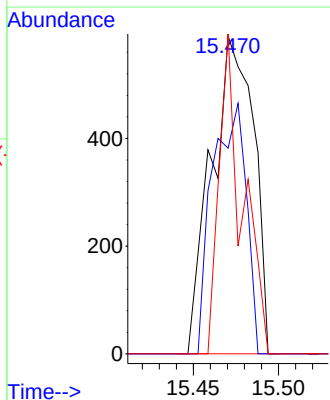
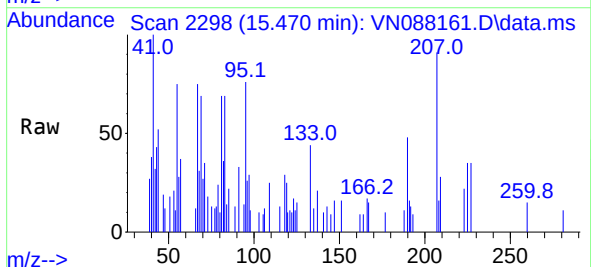
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MSVOA_N
ClientSampleId :
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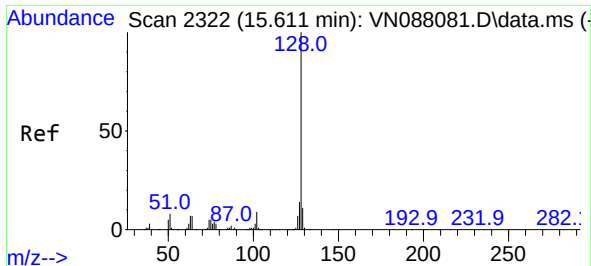
Tgt Ion:180 Resp: 1515
Ion Ratio Lower Upper
180 100
182 111.0 47.6 142.9
145 103.2 16.5 49.5#



#94
Hexachlorobutadiene
Concen: 0.818 ug/l
RT: 15.470 min Scan# 2298
Delta R.T. -0.006 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

Tgt Ion:225 Resp: 1019
Ion Ratio Lower Upper
225 100
223 62.9 32.0 96.2
227 55.5 32.1 96.5

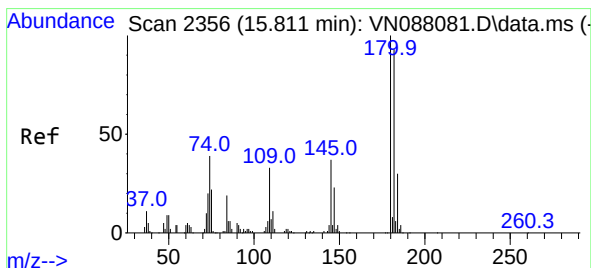
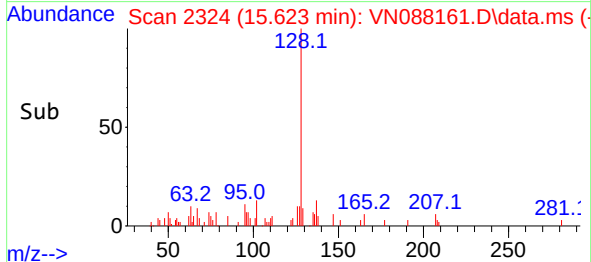
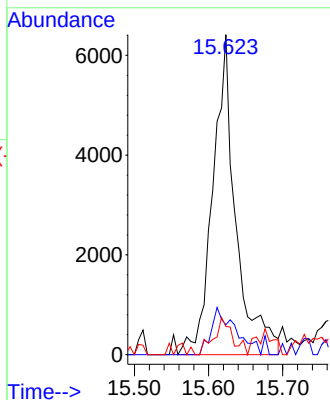
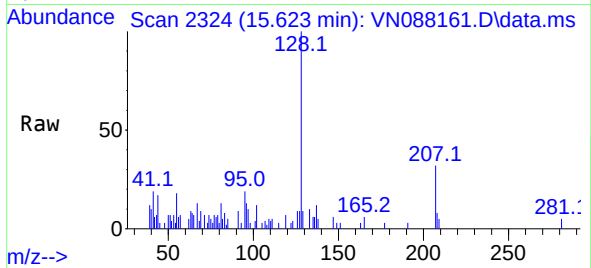




#95
Naphthalene
Concen: 1.209 ug/l
RT: 15.623 min Scan# 21
Delta R.T. 0.012 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

Instrument :
MSVOA_N
ClientSampleId :
COMP-1

Tgt Ion:	128	Resp:	13852
Ion	Ratio	Lower	Upper
128	100		
127	15.5	10.6	15.8
129	8.7	8.6	12.8



#96
1,2,3-Trichlorobenzene
Concen: 0.725 ug/l
RT: 15.823 min Scan# 2358
Delta R.T. 0.012 min
Lab File: VN088161.D
Acq: 29 Oct 2025 15:28

Tgt Ion:	180	Resp:	2325
Ion	Ratio	Lower	Upper
180	100		
182	82.6	46.8	140.3
145	89.9	17.3	52.0#

