

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052925\
 Data File : VN086811.D
 Acq On : 29 May 2025 12:56
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: May 30 02:27:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052925W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 30 02:22:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	39479	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	223586	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	194901	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80654	29.734	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.100%
60) 4-Bromofluorobenzene	12.847	95	82343	26.910	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	89.700%
63) Toluene-d8	10.565	98	267372	29.888	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.633%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	1083	0.404	ug/l	98
3) Chloromethane	2.359	50	3124	0.904	ug/l	89
4) Vinyl Chloride	2.518	62	1101	0.346	ug/l	89
5) Bromomethane	2.983	94	1727	1.024	ug/l #	74
7) Trichlorofluoromethane	3.506	101	991	0.266	ug/l	91
10) 1,1-Dichloroethene	4.342	96	683	0.293	ug/l #	34
11) Methyl Iodide	4.595	142	2079	0.757	ug/l #	86
13) Acrolein	4.183	56	3642	13.635	ug/l	98
14) Acrylonitrile	5.712	53	830	0.690	ug/l #	23
16) Carbon Disulfide	4.706	76	6307	0.928	ug/l	100
19) trans-1,2-Dichloroethene	5.783	96	1377	0.565	ug/l	85
22) cis-1,2-Dichloroethene	7.483	96	1287	0.436	ug/l #	6
26) Cyclohexane	8.253	56	1700	0.427	ug/l #	93
29) 1,1-Dichloropropene	8.365	75	1946	0.592	ug/l	90
30) 2-Butanone	7.488	43	1154	0.801	ug/l #	83
34) Benzene	8.600	78	4262	0.398	ug/l #	1
35) Methacrylonitrile	7.783	41	430	0.260	ug/l #	25
36) 1,2-Dichloroethane	8.671	62	750	0.239	ug/l #	72
37) Trichloroethene	9.341	130	807	0.272	ug/l	92
38) Methylcyclohexane	9.600	83	1877	0.515	ug/l	92
40) Dibromomethane	9.706	93	671	0.398	ug/l	85
46) Methyl methacrylate	9.594	41	816	0.350	ug/l #	57
47) n-amyl Acetate	12.494	43	1663	0.410	ug/l #	65
48) t-1,3-Dichloropropene	10.835	75	1305	0.346	ug/l	94
49) cis-1,3-Dichloropropene	10.312	75	971	0.234	ug/l #	62
52) 1,3-Dichloropropane	11.153	76	843	0.200	ug/l #	42
54) 1,2-Dibromoethane	11.465	107	495	0.204	ug/l	94
55) 2-Chloroethyl vinyl ether	10.153	63	767	0.416	ug/l #	44
56) Bromoform	12.576	173	347	0.205	ug/l #	33
58) 4-Methyl-2-Pentanone	10.435	43	1857	0.649	ug/l	95
59) 2-Hexanone	11.194	43	3249	1.586	ug/l	96
61) Tetrachloroethene	11.100	164	1768	0.540	ug/l #	74
62) Toluene	10.629	91	4362	0.397	ug/l	97
64) Chlorobenzene	11.888	112	4373	0.625	ug/l	99
66) Ethyl Benzene	11.959	91	5362	0.452	ug/l	93
67) m/p-Xylenes	12.070	106	3889	0.835	ug/l	92
68) o-Xylene	12.070	106	3889	0.861	ug/l	100
69) Styrene	12.412	104	3739	0.497	ug/l	97
70) Isopropylbenzene	12.694	105	4189	0.390	ug/l	96

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

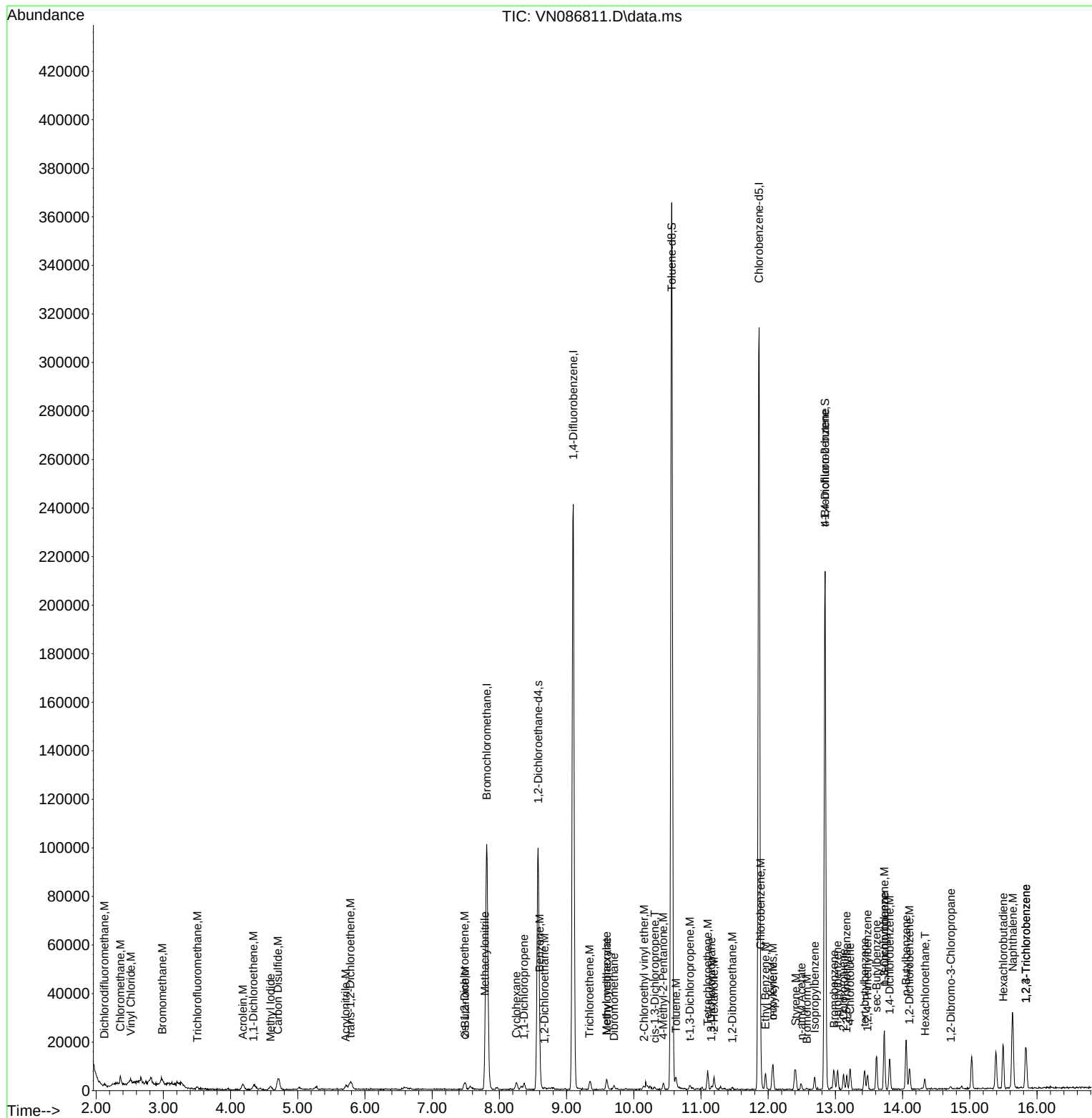
73) Bromobenzene	12.982	156	1983	0.743	ug/l	98
74) n-propylbenzene	13.029	91	7621	0.599	ug/l	95
75) 2-Chlorotoluene	13.117	91	4758	0.583	ug/l	99
76) 1,3,5-Trimethylbenzene	13.165	105	3802	0.426	ug/l	98
77) t-1,4-Dichloro-2-butene	12.847	75	39311	32.100	ug/l #	14
78) 4-Chlorotoluene	13.217	91	6571	0.812	ug/l	100
79) tert-butylbenzene	13.435	119	4583	0.593	ug/l	97
80) 1,2,4-Trimethylbenzene	13.476	105	4256	0.475	ug/l	96
81) sec-Butylbenzene	13.612	105	11079	1.053	ug/l	99
82) p-Isopropyltoluene	13.729	119	9077	1.027	ug/l	98
83) 1,3-Dichlorobenzene	13.729	146	5106	1.043	ug/l	94
84) 1,4-Dichlorobenzene	13.806	146	6140	1.260	ug/l	97
85) n-Butylbenzene	14.053	91	12790	1.729	ug/l	99
86) Hexachloroethane	14.335	117	1093	0.726	ug/l	98
87) 1,2-Dichlorobenzene	14.100	146	4736	1.003	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.717	75	424	0.789	ug/l #	75
89) 1,2,4-Trichlorobenzene	15.835	180	7569	3.829	ug/l	95
90) Hexachlorobutadiene	15.500	225	3589	4.236	ug/l	97
91) Naphthalene	15.641	128	32385	4.695	ug/l #	95
92) 1,2,3-Trichlorobenzene	15.835	180	7569	3.829	ug/l	95

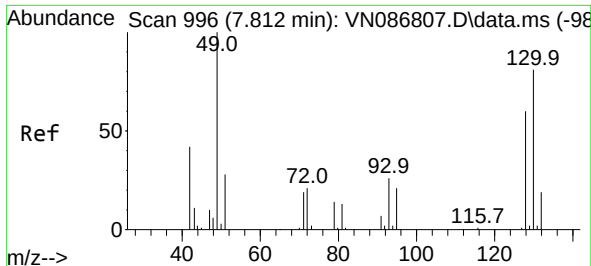
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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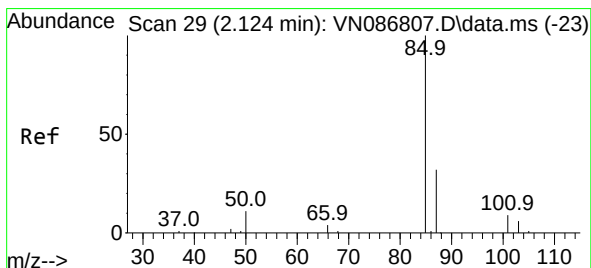
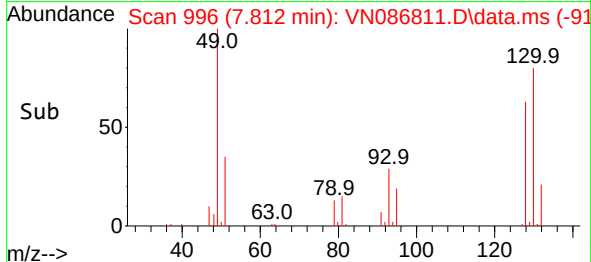
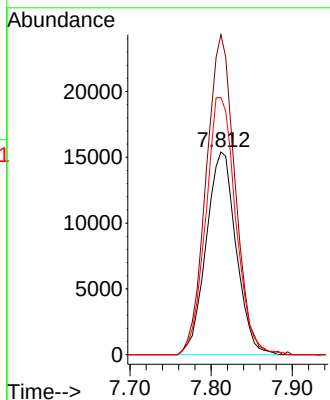
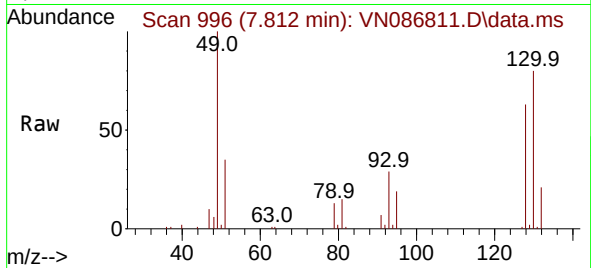




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086811.D
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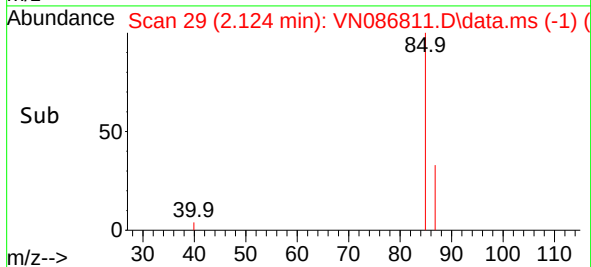
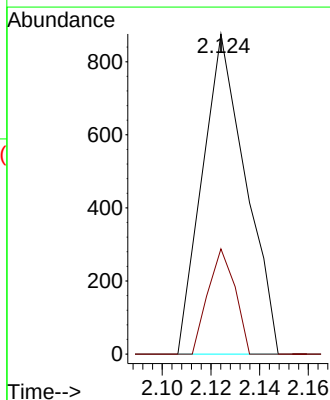
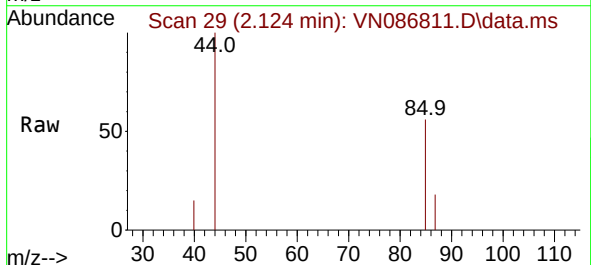
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MSVOA_N
ClientSampleId :
IBLK

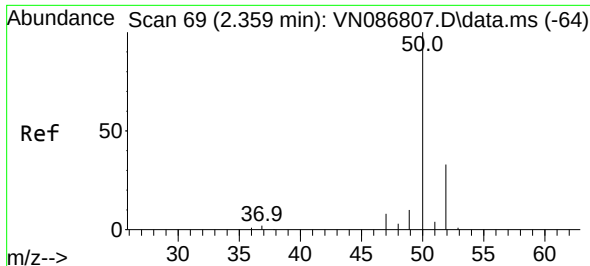
Tgt Ion:128 Resp: 39479
Ion Ratio Lower Upper
128 100
49 151.8 0.0 404.5
130 127.3 0.0 322.2



#2
Dichlorodifluoromethane
Concen: 0.404 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion: 85 Resp: 1083
Ion Ratio Lower Upper
85 100
87 32.9 15.9 47.7

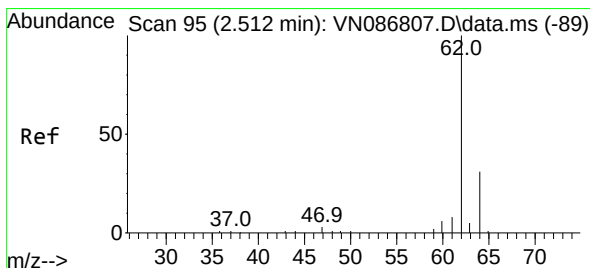
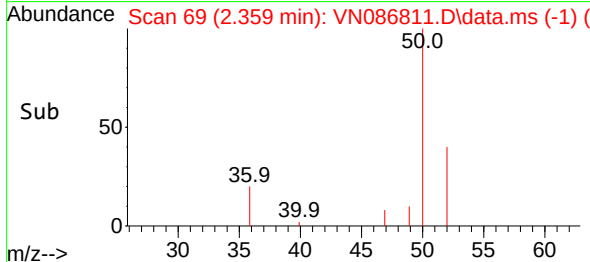
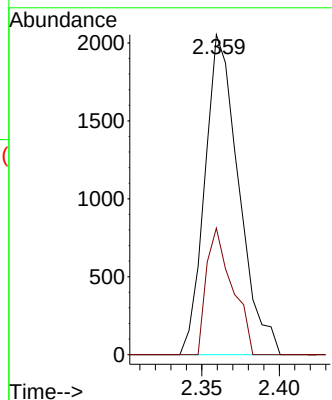
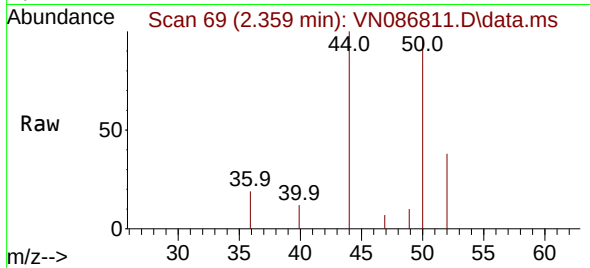




#3
Chloromethane
Concen: 0.904 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

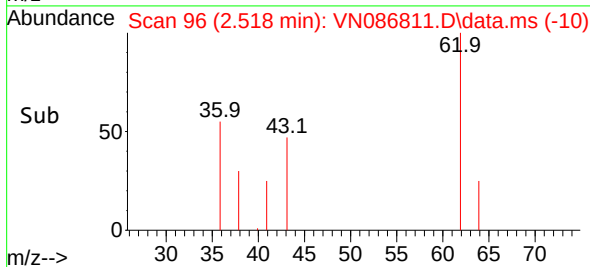
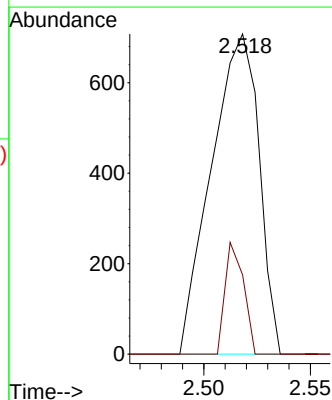
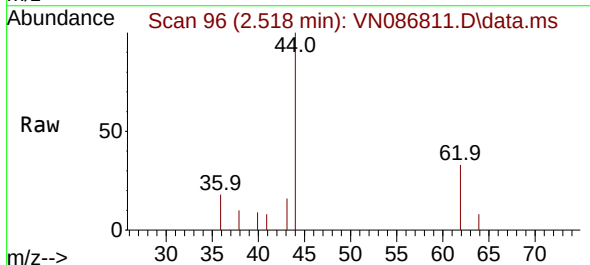
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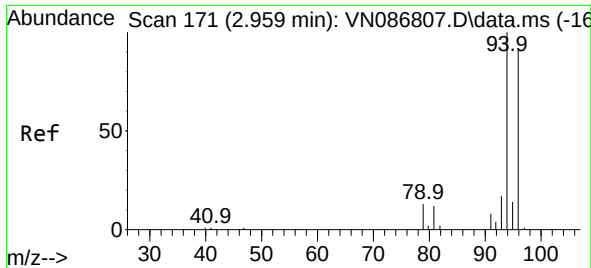
Tgt Ion: 50 Resp: 3124
Ion Ratio Lower Upper
50 100
52 39.6 26.6 40.0



#4
Vinyl Chloride
Concen: 0.346 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion: 62 Resp: 1101
Ion Ratio Lower Upper
62 100
64 24.7 24.6 36.8

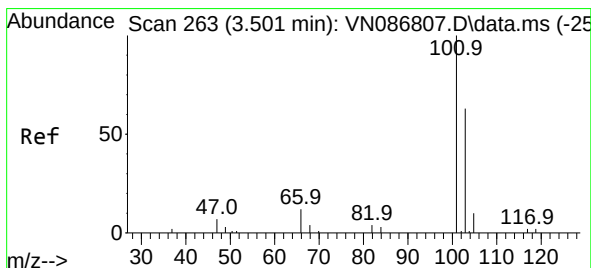
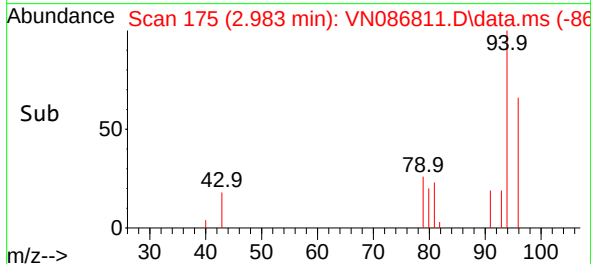
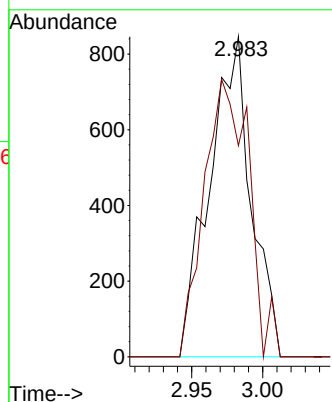
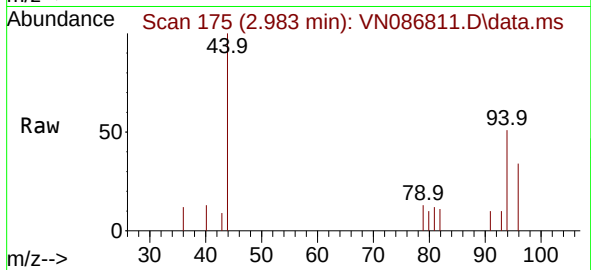




#5
Bromomethane
Concen: 1.024 ug/l
RT: 2.983 min Scan# 175
Delta R.T. 0.023 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

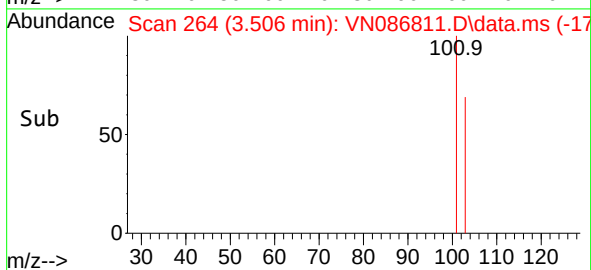
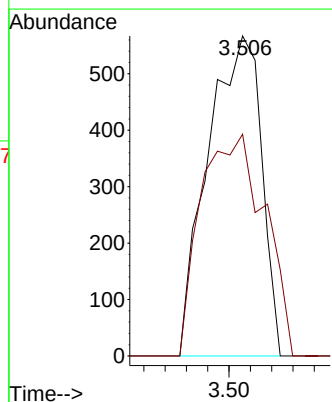
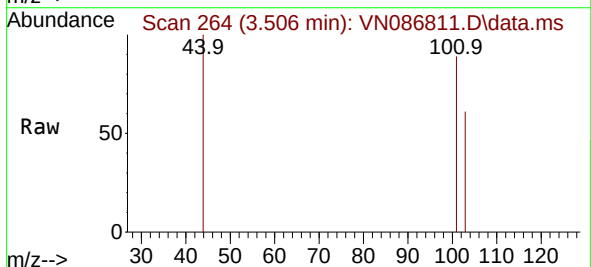
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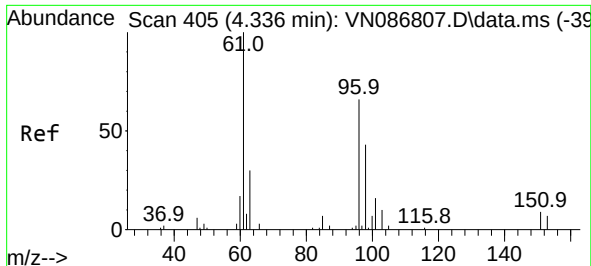
Tgt Ion: 94 Resp: 1727
Ion Ratio Lower Upper
94 100
96 66.0 72.7 109.1#



#7
Trichlorofluoromethane
Concen: 0.266 ug/l
RT: 3.506 min Scan# 264
Delta R.T. 0.006 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion:101 Resp: 991
Ion Ratio Lower Upper
101 100
103 69.3 50.0 75.0

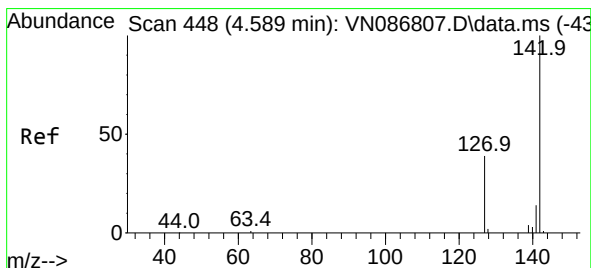
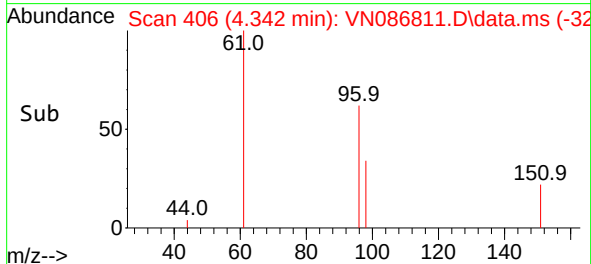
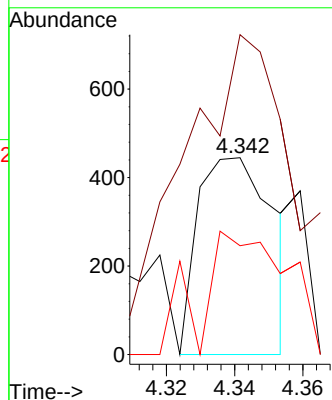
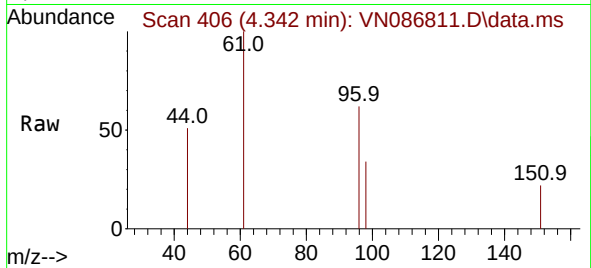




#10
1,1-Dichloroethene
Concen: 0.293 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.006 min
Lab File: VN086811.D
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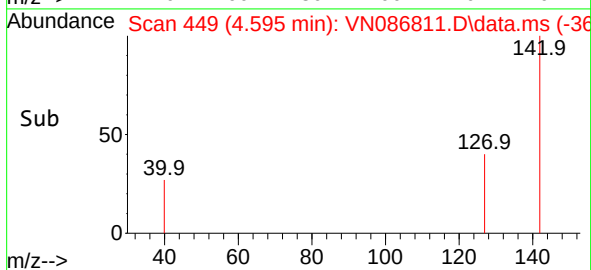
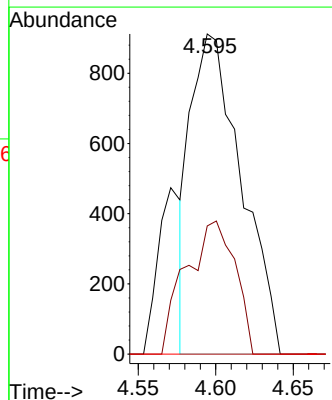
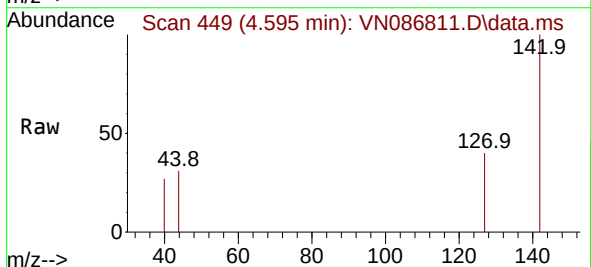
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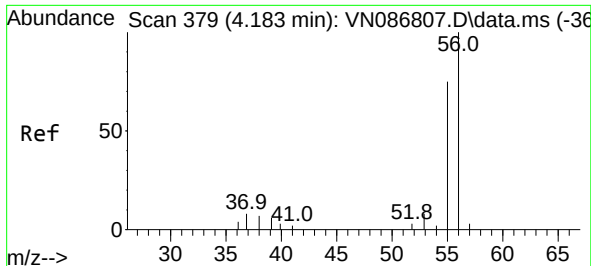
Tgt Ion: 96 Resp: 683
Ion Ratio Lower Upper
96 100
61 65.8 121.7 182.5#
98 14.2 51.9 77.9#



#11
Methyl Iodide
Concen: 0.757 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion: 142 Resp: 2079
Ion Ratio Lower Upper
142 100
127 35.3 19.5 58.5
141 0.0 7.1 21.4#

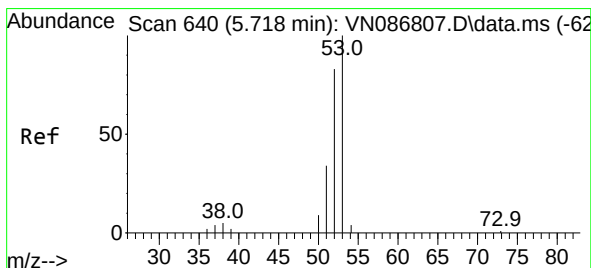
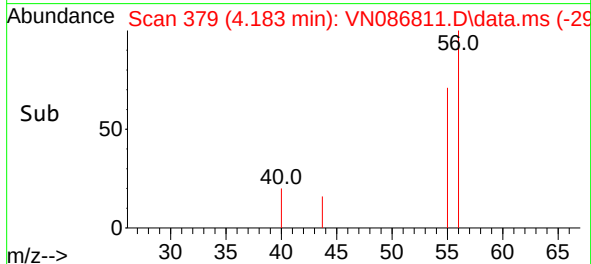
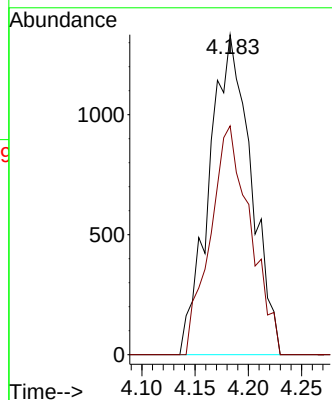
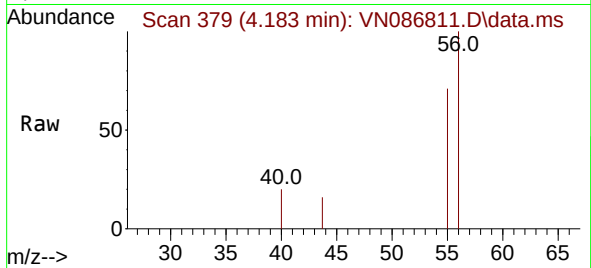




#13
Acrolein
Concen: 13.635 ug/l
RT: 4.183 min Scan# 31
Delta R.T. -0.000 min
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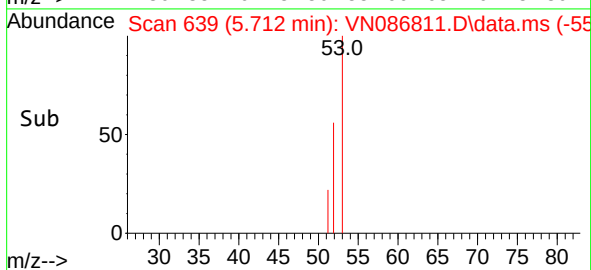
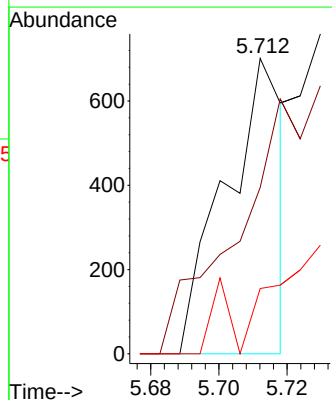
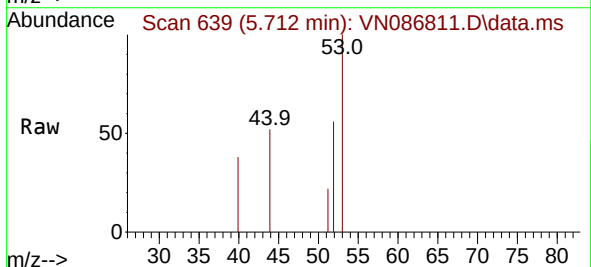
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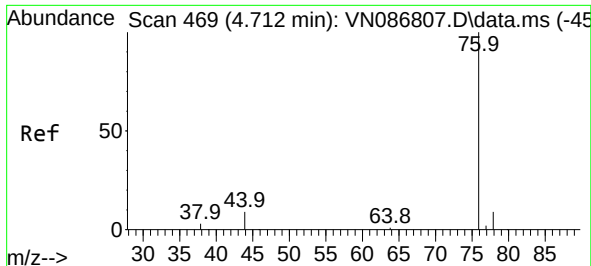
Tgt Ion: 56 Resp: 3642
Ion Ratio Lower Upper
56 100
55 68.6 55.9 83.9



#14
Acrylonitrile
Concen: 0.690 ug/l
RT: 5.712 min Scan# 639
Delta R.T. -0.006 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion: 53 Resp: 830
Ion Ratio Lower Upper
53 100
52 0.0 40.0 119.9#
51 7.7 17.5 52.6#

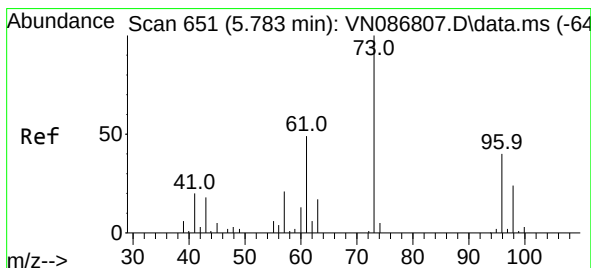
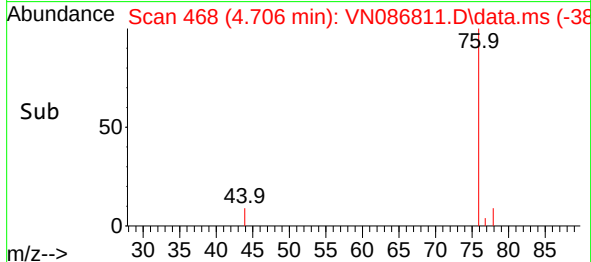
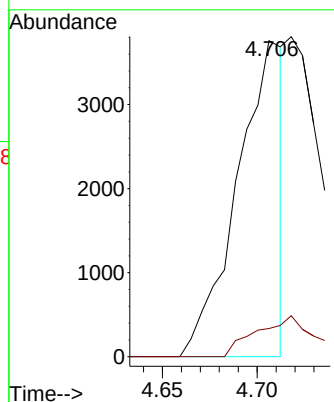
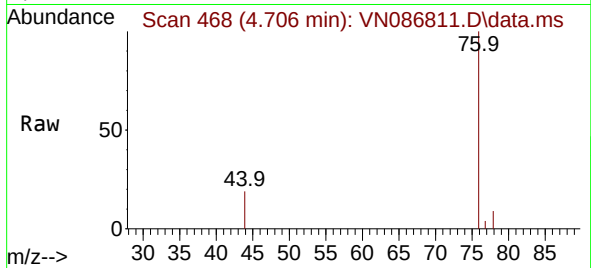




#16
Carbon Disulfide
Concen: 0.928 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.006 min
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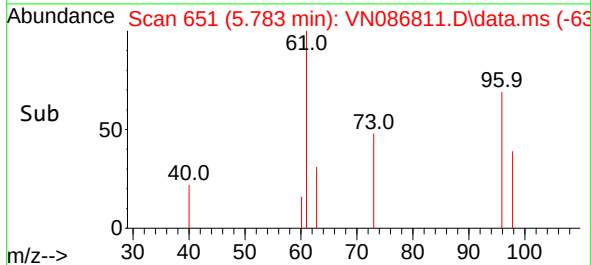
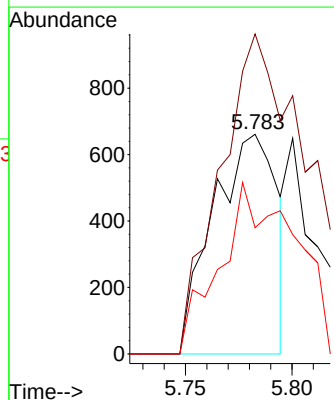
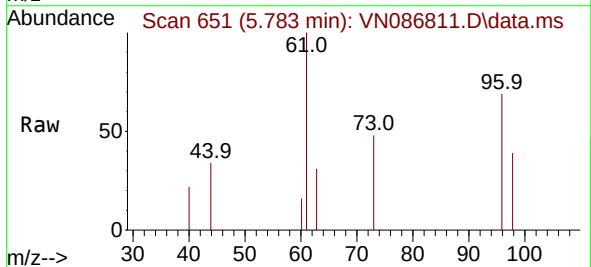
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MSVOA_N
ClientSampleId :
IBLK

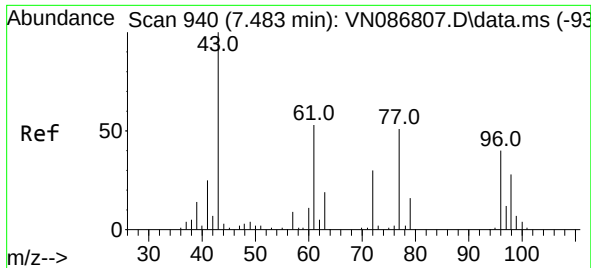
Tgt Ion: 76 Resp: 6307
Ion Ratio Lower Upper
76 100
78 8.9 7.2 10.8



#19
trans-1,2-Dichloroethene
Concen: 0.565 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion: 96 Resp: 1377
Ion Ratio Lower Upper
96 100
61 145.7 98.9 148.3
98 57.5 49.0 73.4

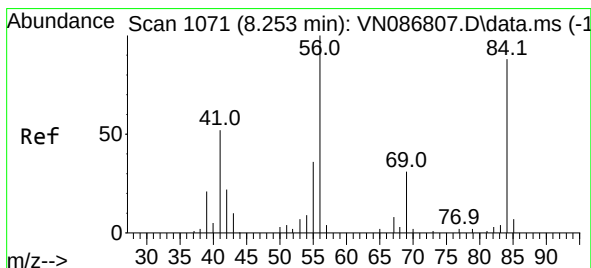
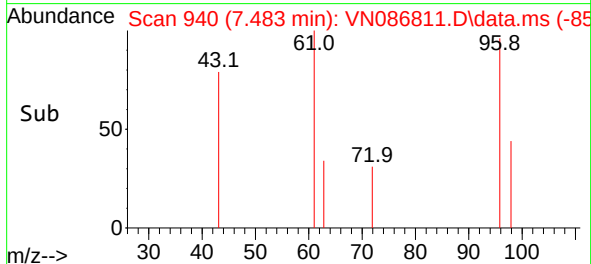
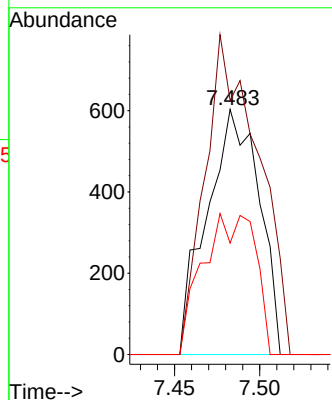
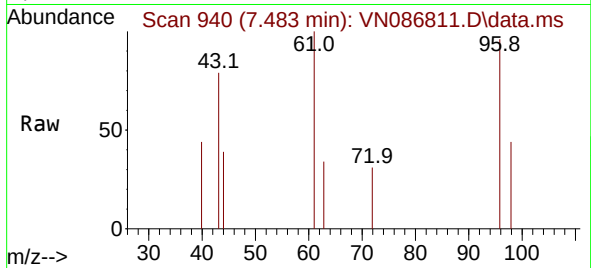




#22
 cis-1,2-Dichloroethene
 Concen: 0.436 ug/l
 RT: 7.483 min Scan# 940
 Delta R.T. -0.000 min
 Lab File: VN086811.D
 Acq: 29 May 2025 12:56

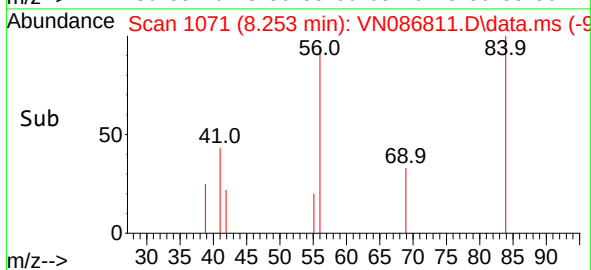
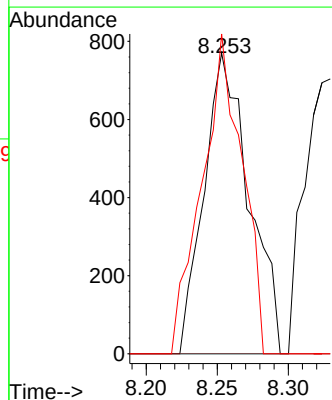
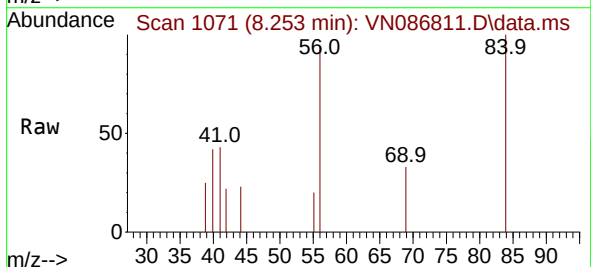
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

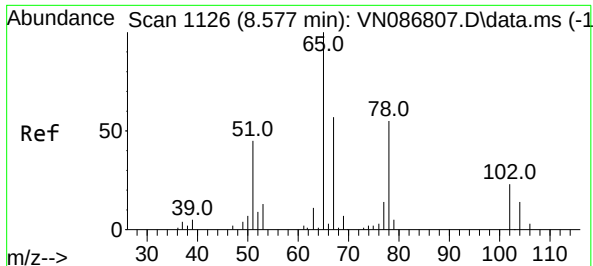
Tgt Ion: 96 Resp: 1287
 Ion Ratio Lower Upper
 96 100
 61 0.0 110.7 166.1#
 98 24.1 51.8 77.8#



#26
 Cyclohexane
 Concen: 0.427 ug/l
 RT: 8.253 min Scan# 1071
 Delta R.T. -0.000 min
 Lab File: VN086811.D
 Acq: 29 May 2025 12:56

Tgt Ion: 56 Resp: 1700
 Ion Ratio Lower Upper
 56 100
 89 0.0 0.0 0.0
 84 94.9 70.4 105.6

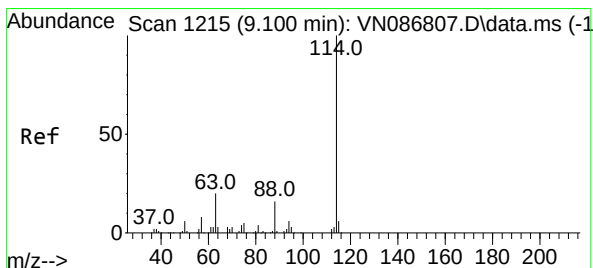
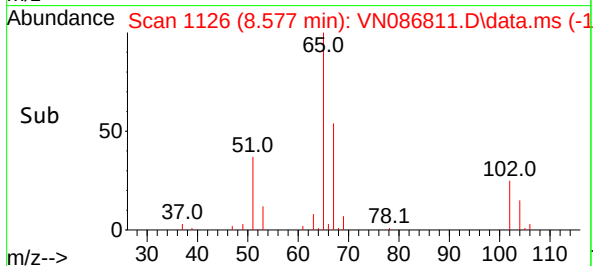
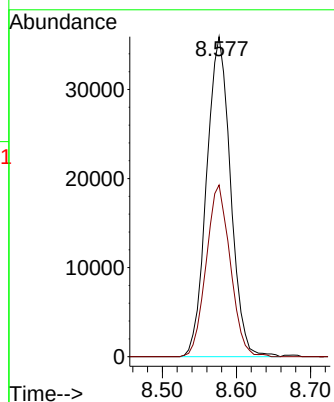
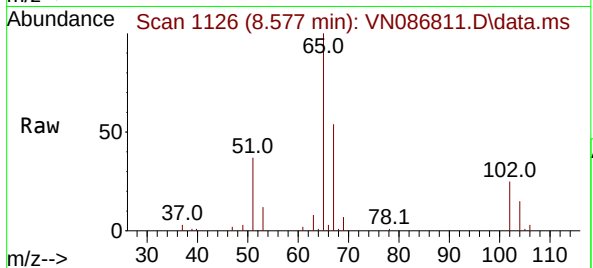




#27
1,2-Dichloroethane-d4
Concen: 29.734 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

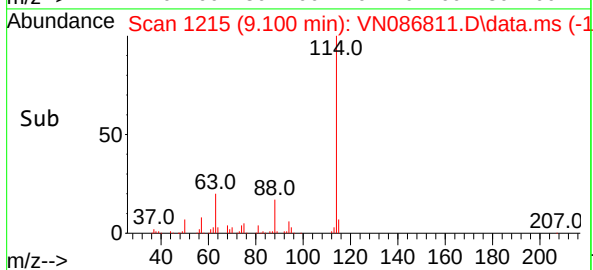
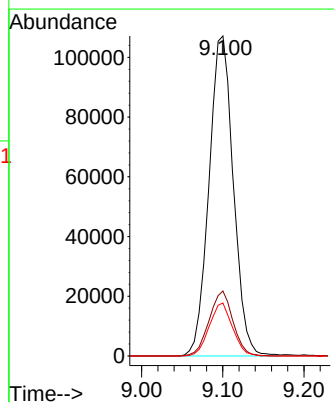
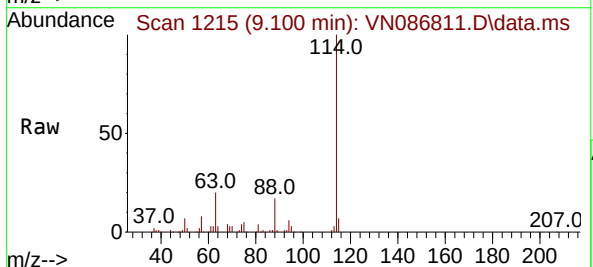
Instrument :
MSVOA_N
ClientSampleId :
IBLK

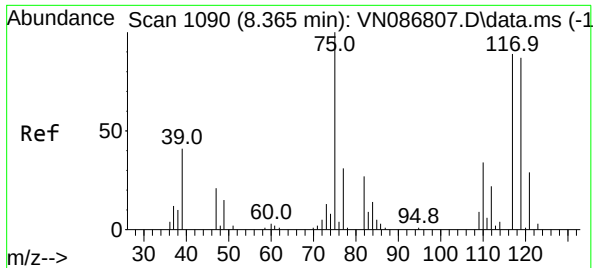
Tgt Ion: 65 Resp: 80654
Ion Ratio Lower Upper
65 100
67 53.8 44.6 67.0



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion: 114 Resp: 223586
Ion Ratio Lower Upper
114 100
63 19.8 15.8 23.8
88 15.8 12.9 19.3

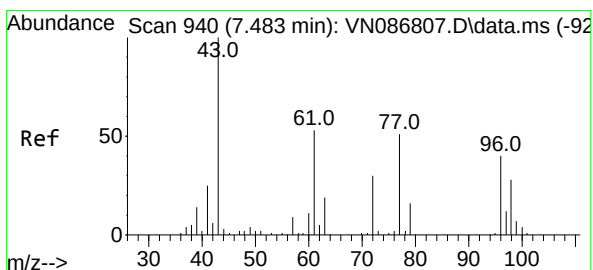
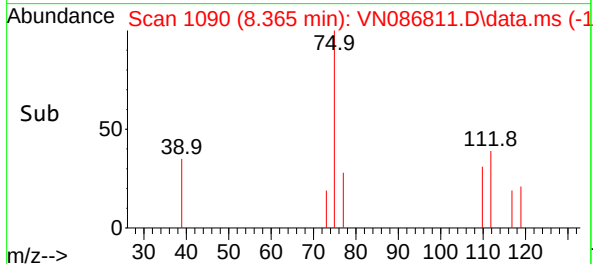
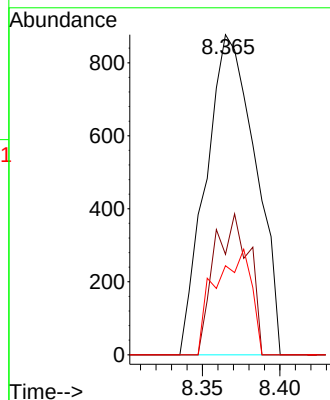
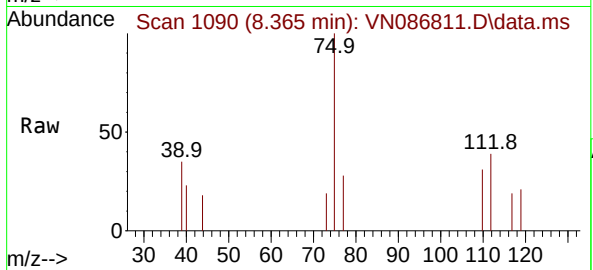




#29
1,1-Dichloropropene
Concen: 0.592 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

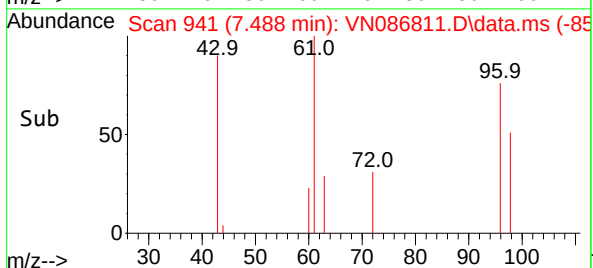
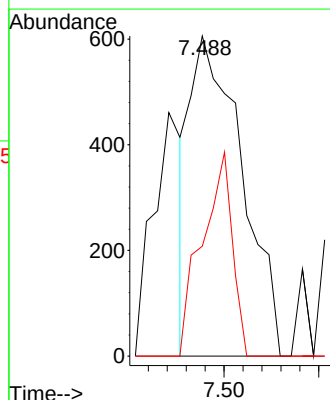
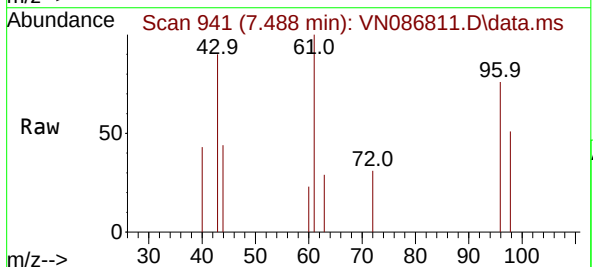
Instrument :
MSVOA_N
ClientSampleId :
IBLK

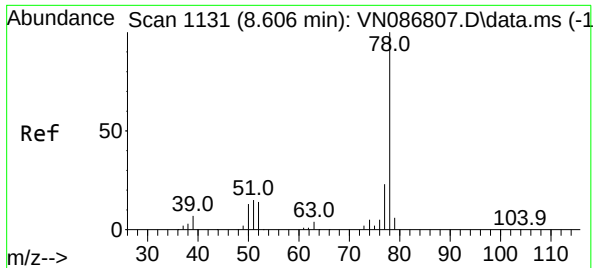
Tgt Ion: 75 Resp: 1946
Ion Ratio Lower Upper
75 100
110 31.0 0.0 71.0
77 24.2 0.0 62.4



#30
2-Butanone
Concen: 0.801 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion: 43 Resp: 1154
Ion Ratio Lower Upper
43 100
57 0.0 6.8 10.2#
72 37.3 23.4 35.0#

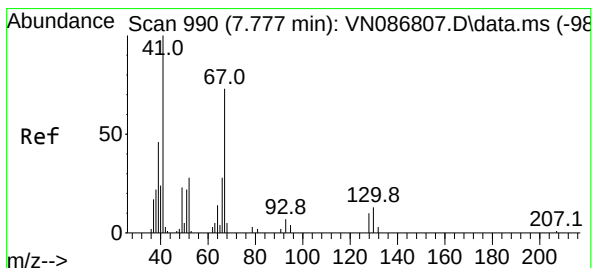
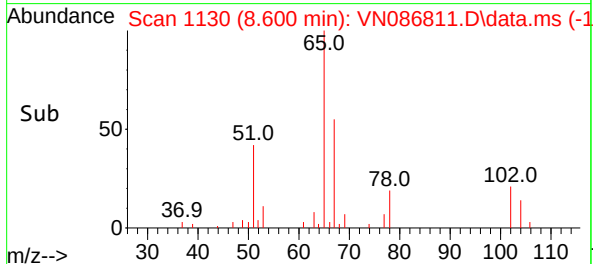
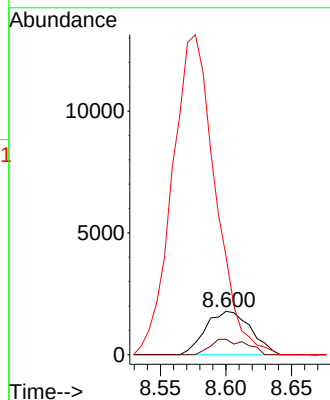
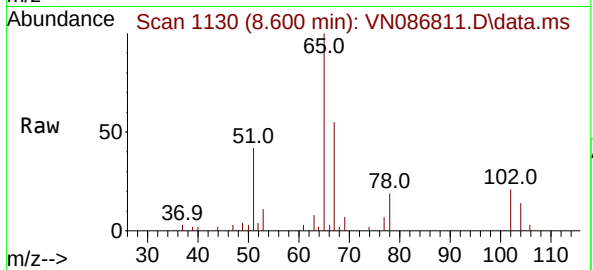




#34
Benzene
Concen: 0.398 ug/l
RT: 8.600 min Scan# 1131
Delta R.T. -0.006 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

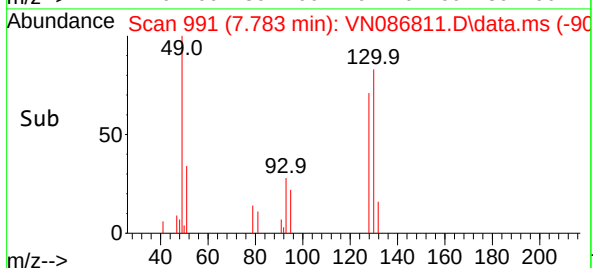
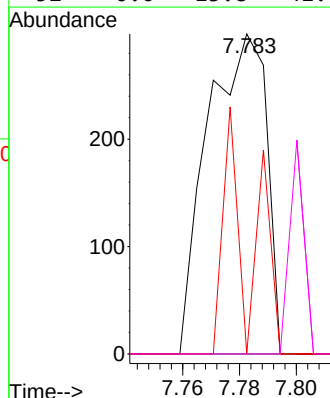
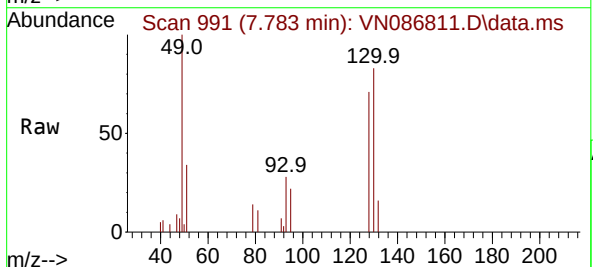
Instrument :
MSVOA_N
ClientSampleId :
IBLK

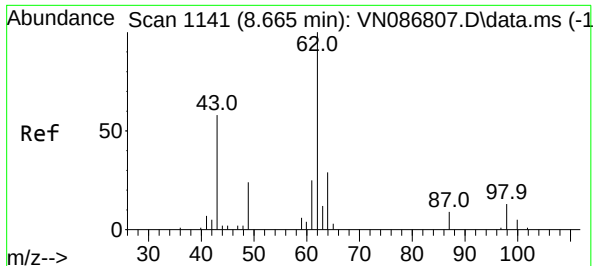
Tgt Ion: 78 Resp: 4262
Ion Ratio Lower Upper
78 100
77 35.3 18.2 27.2#
51 225.6 11.9 17.9#



#35
Methacrylonitrile
Concen: 0.260 ug/l
RT: 7.783 min Scan# 991
Delta R.T. 0.006 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion: 41 Resp: 430
Ion Ratio Lower Upper
41 100
39 0.0 23.2 69.6#
67 0.0 36.5 109.7#
52 0.0 13.8 41.4#





#36

1,2-Dichloroethane

Concen: 0.239 ug/l

RT: 8.671 min Scan# 1141

Delta R.T. 0.006 min

Lab File: VN086811.D

Acq: 29 May 2025 12:56

Instrument :

MSVOA_N

ClientSampleId :

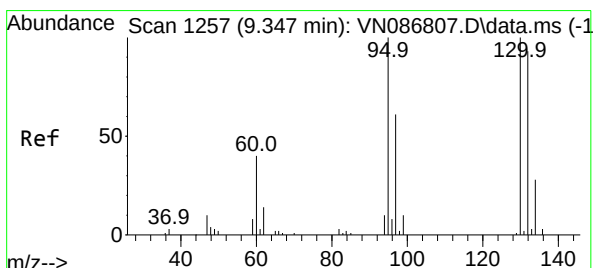
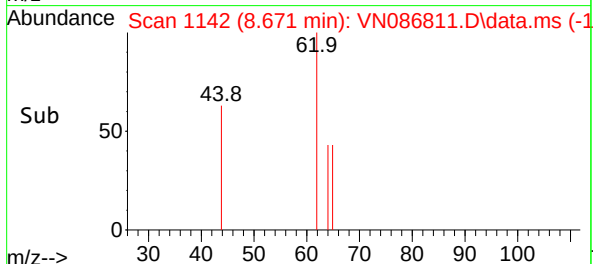
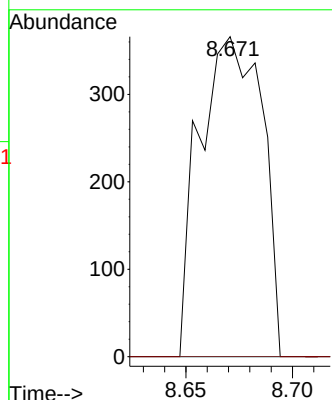
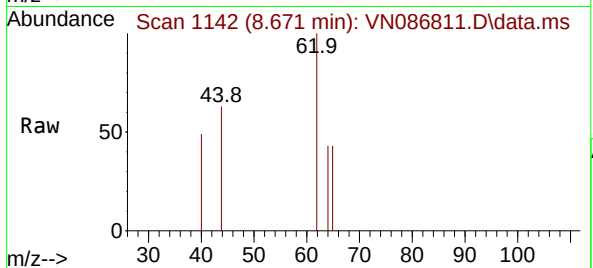
IBLK

Tgt Ion: 62 Resp: 750

Ion Ratio Lower Upper

62 100

98 0.0 8.5 12.7#



#37

Trichloroethene

Concen: 0.272 ug/l

RT: 9.341 min Scan# 1256

Delta R.T. -0.006 min

Lab File: VN086811.D

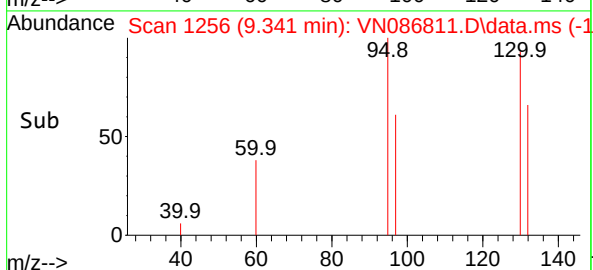
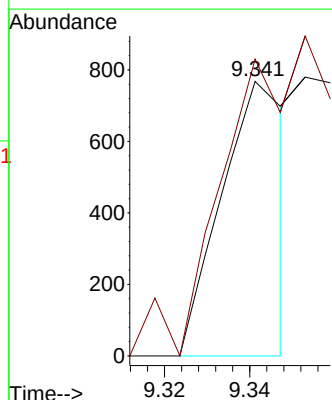
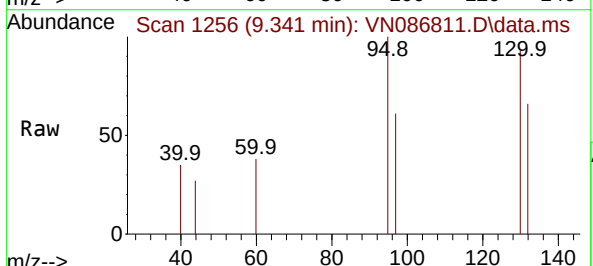
Acq: 29 May 2025 12:56

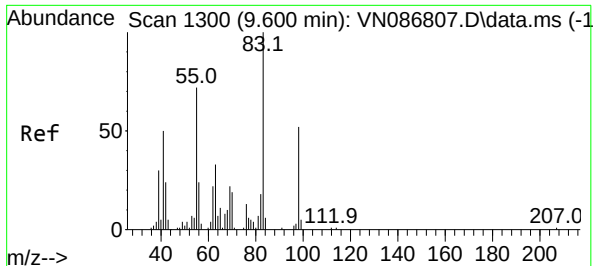
Tgt Ion: 130 Resp: 807

Ion Ratio Lower Upper

130 100

95 108.1 80.3 120.5

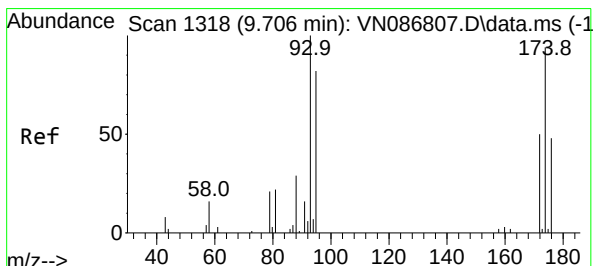
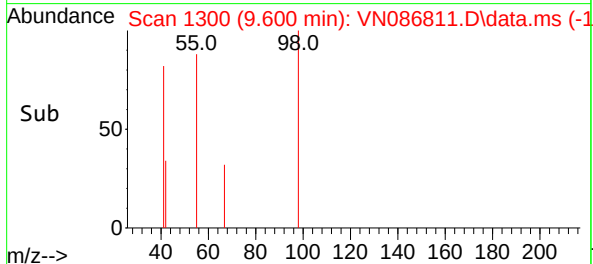
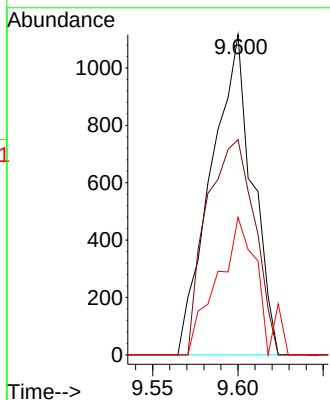
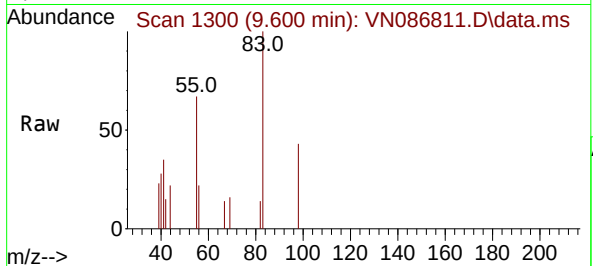




#38
Methylcyclohexane
Concen: 0.515 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

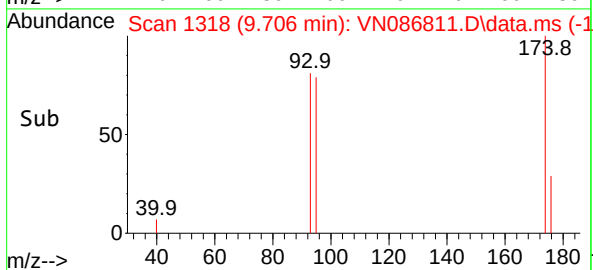
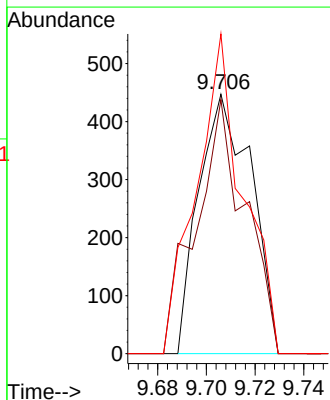
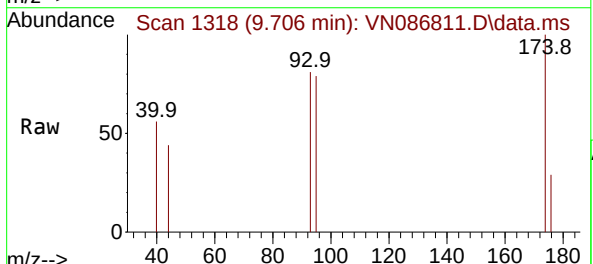
Instrument :
MSVOA_N
ClientSampleId :
IBLK

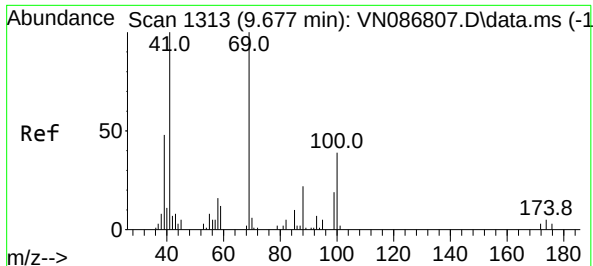
Tgt Ion:	83	Resp:	1877
Ion	Ratio	Lower	Upper
83	100		
55	78.2	37.4	112.1
98	39.2	24.6	73.6



#40
Dibromomethane
Concen: 0.398 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion:	93	Resp:	671
Ion	Ratio	Lower	Upper
93	100		
95	92.0	0.0	166.4
174	109.2	0.0	181.8

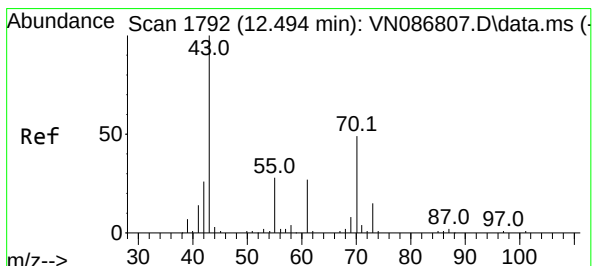
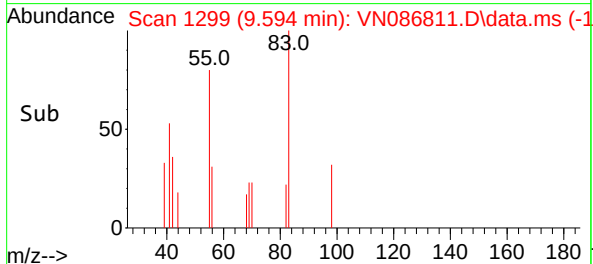
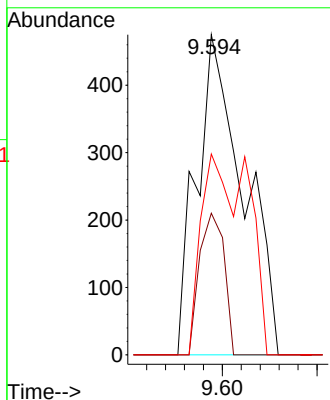
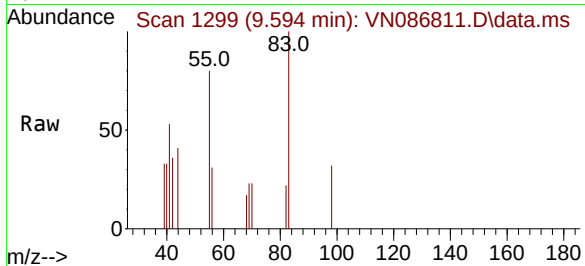




#46
Methyl methacrylate
Concen: 0.350 ug/l
RT: 9.594 min Scan# 1299
Delta R.T. -0.082 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

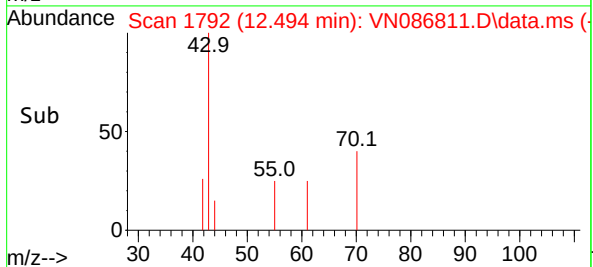
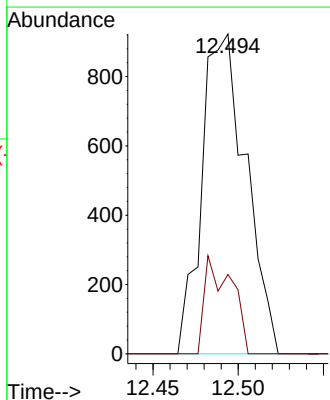
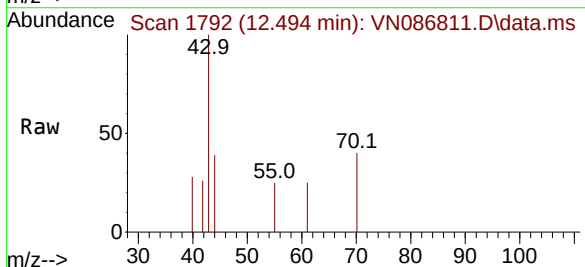
Instrument :
MSVOA_N
ClientSampleId :
IBLK

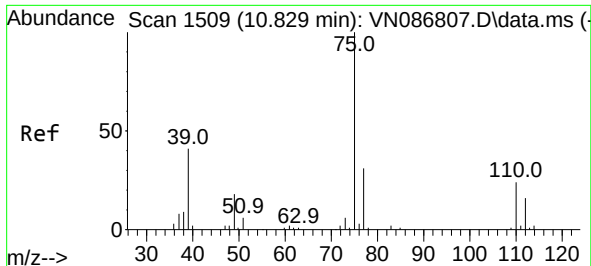
Tgt Ion: 41 Resp: 816
Ion Ratio Lower Upper
41 100
69 44.2 48.0 144.2#
39 62.7 23.8 71.2



#47
n-amy1 Acetate
Concen: 0.410 ug/l
RT: 12.494 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion: 43 Resp: 1663
Ion Ratio Lower Upper
43 100
55 8.8 21.7 32.5#

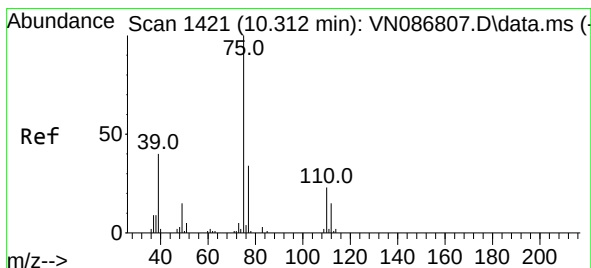
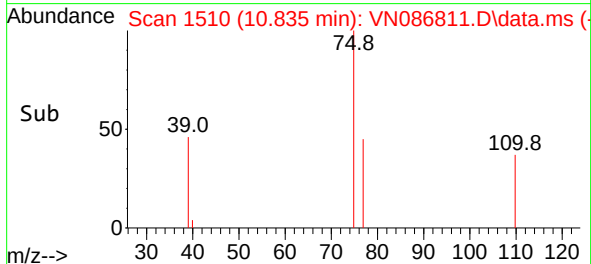
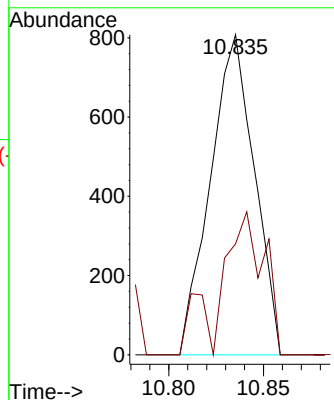
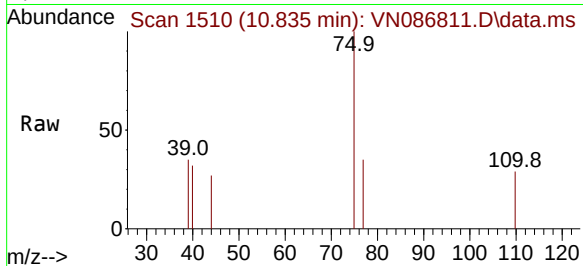




#48
 t-1,3-Dichloropropene
 Concen: 0.346 ug/l
 RT: 10.835 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VN086811.D
 Acq: 29 May 2025 12:56

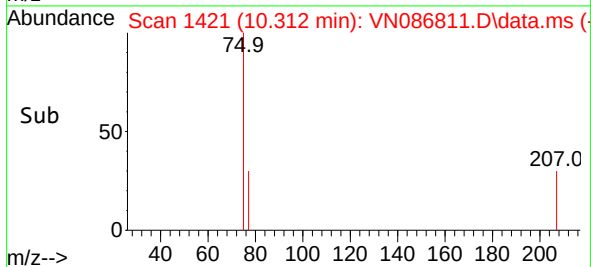
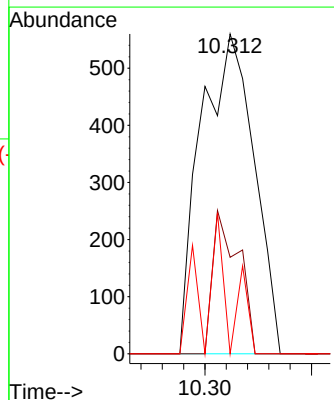
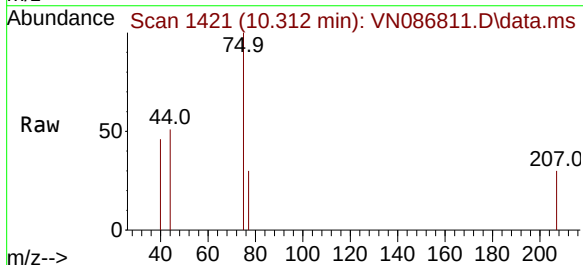
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

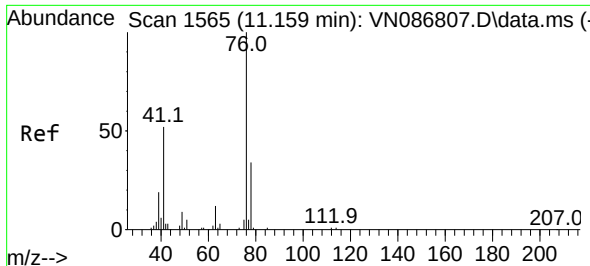
Tgt Ion: 75 Resp: 1305
 Ion Ratio Lower Upper
 75 100
 77 34.7 25.1 37.7



#49
 cis-1,3-Dichloropropene
 Concen: 0.234 ug/l
 RT: 10.312 min Scan# 1421
 Delta R.T. -0.000 min
 Lab File: VN086811.D
 Acq: 29 May 2025 12:56

Tgt Ion: 75 Resp: 971
 Ion Ratio Lower Upper
 75 100
 77 30.2 26.9 40.3
 39 0.0 31.8 47.6#

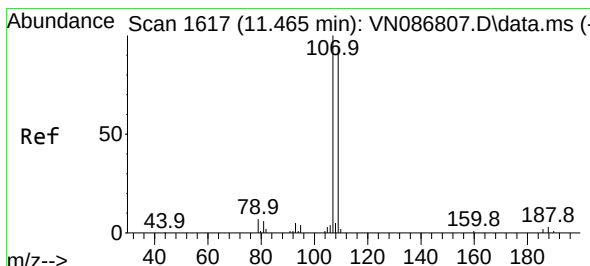
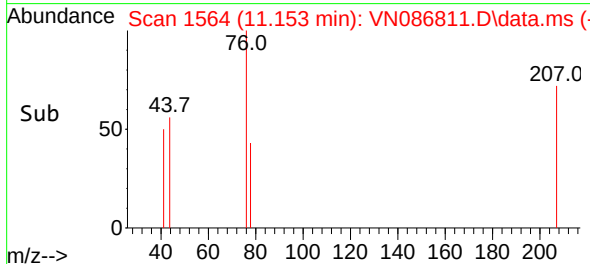
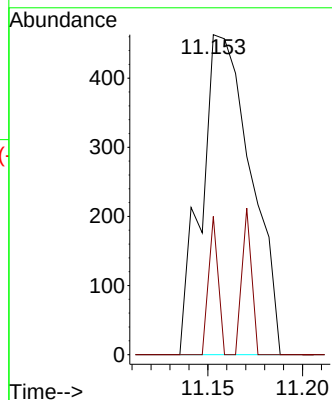
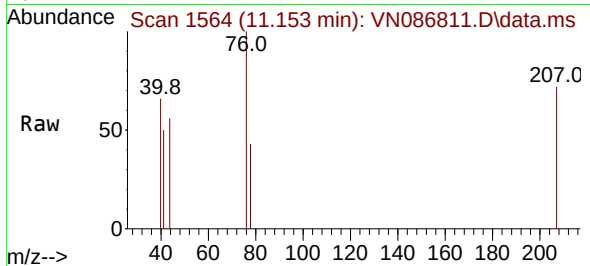




#52
1,3-Dichloropropane
Concen: 0.200 ug/l
RT: 11.153 min Scan# 1564
Delta R.T. -0.006 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

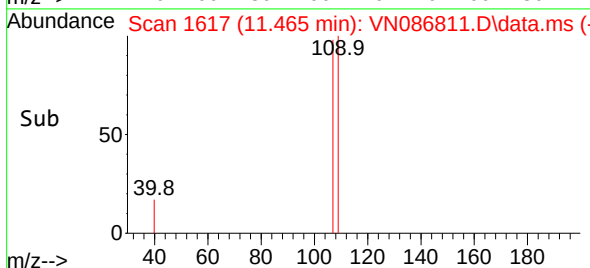
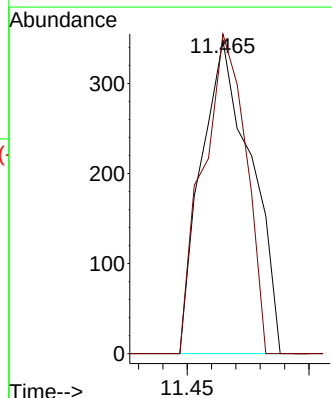
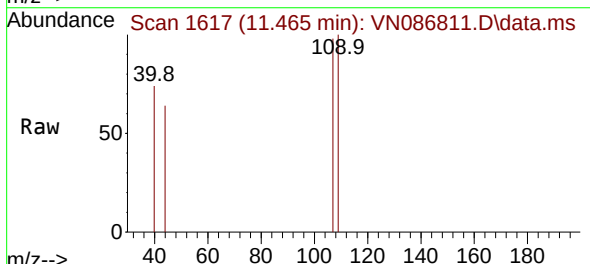
Instrument :
MSVOA_N
ClientSampleId :
IBLK

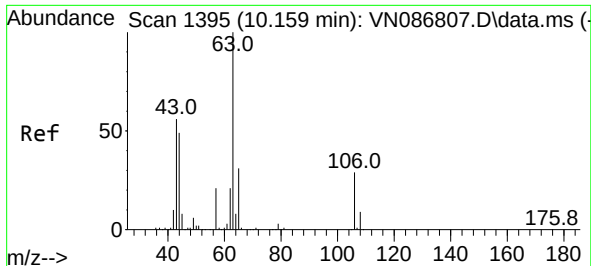
Tgt Ion: 76 Resp: 843
Ion Ratio Lower Upper
76 100
78 0.0 0.0 64.6



#54
1,2-Dibromoethane
Concen: 0.204 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion: 107 Resp: 495
Ion Ratio Lower Upper
107 100
109 88.1 75.0 112.6

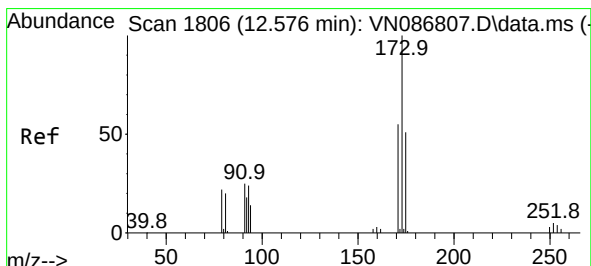
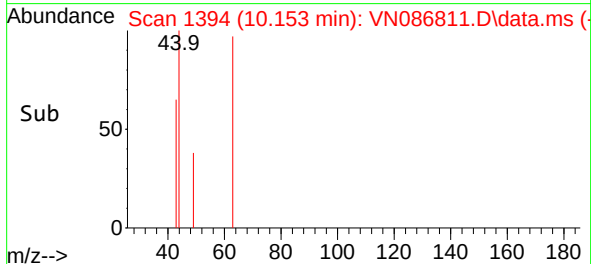
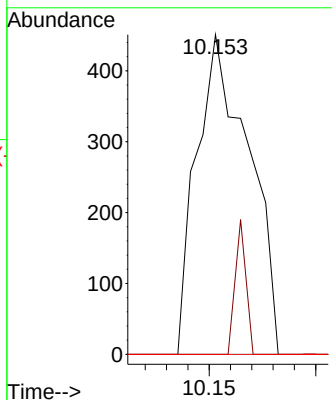
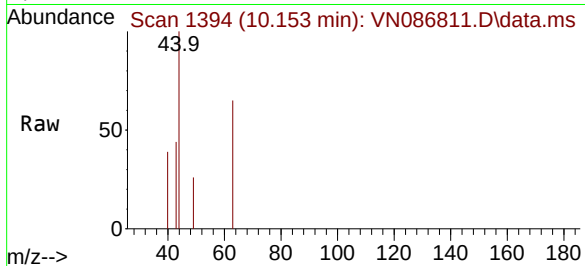




#55
2-Chloroethyl vinyl ether
Concen: 0.416 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

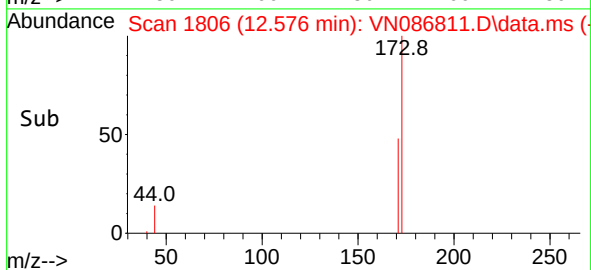
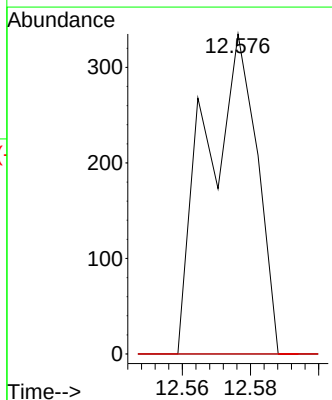
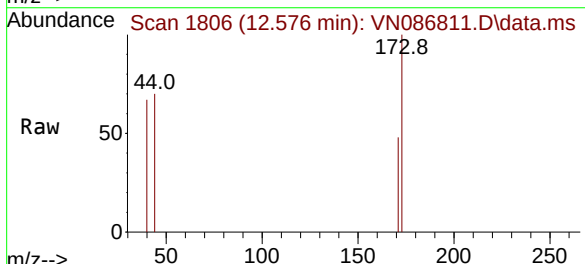
Instrument :
MSVOA_N
ClientSampleId :
IBLK

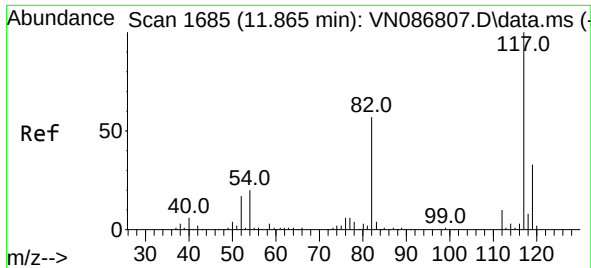
Tgt Ion: 63 Resp: 767
Ion Ratio Lower Upper
63 100
65 0.0 25.7 38.5#
106 0.0 22.7 34.1#



#56
Bromoform
Concen: 0.205 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion:173 Resp: 347
Ion Ratio Lower Upper
173 100
175 0.0 39.7 59.5#
254 0.0 3.5 5.3#

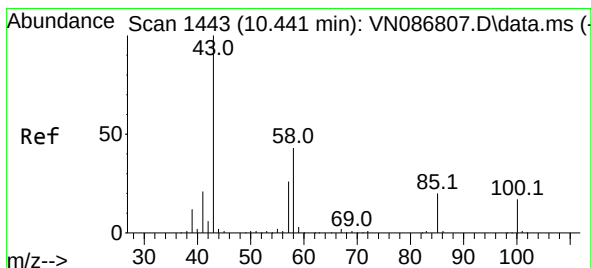
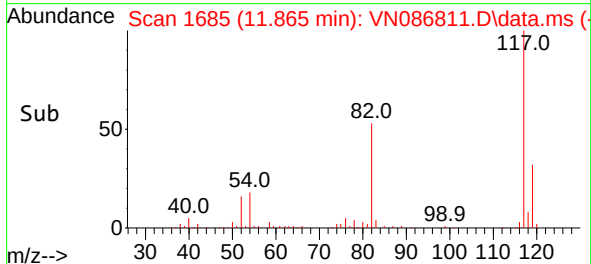
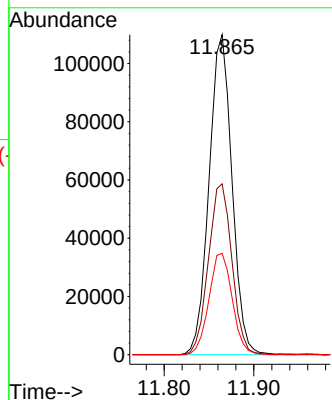
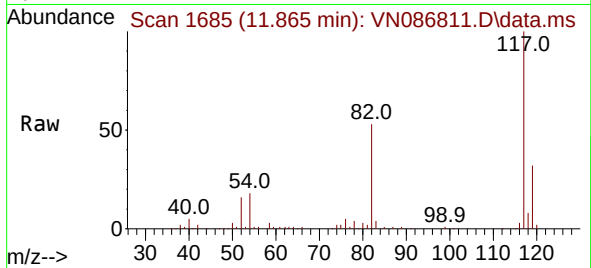




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

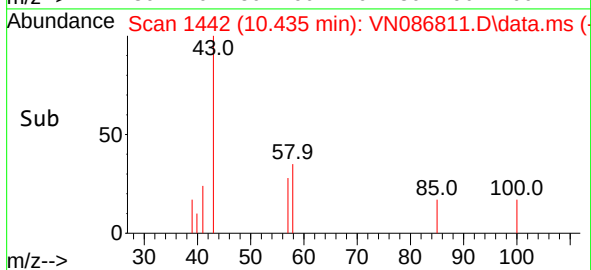
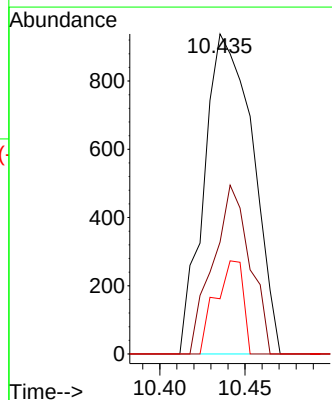
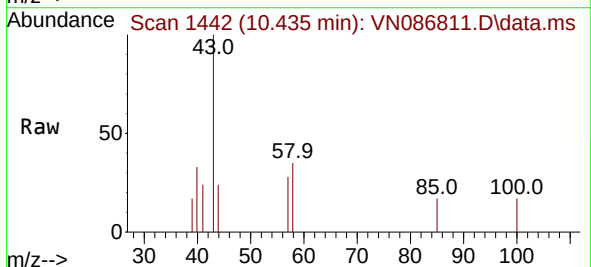
Instrument :
MSVOA_N
ClientSampleId :
IBLK

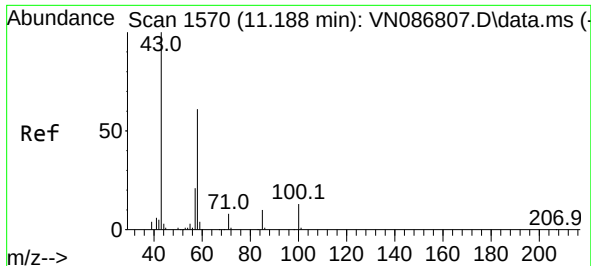
Tgt Ion:117 Resp: 194901
Ion Ratio Lower Upper
117 100
82 54.8 44.7 67.1
119 32.2 25.6 38.4



#58
4-Methyl-2-Pentanone
Concen: 0.649 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. -0.006 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion: 43 Resp: 1857
Ion Ratio Lower Upper
43 100
58 40.2 34.5 51.7
85 16.5 15.8 23.8

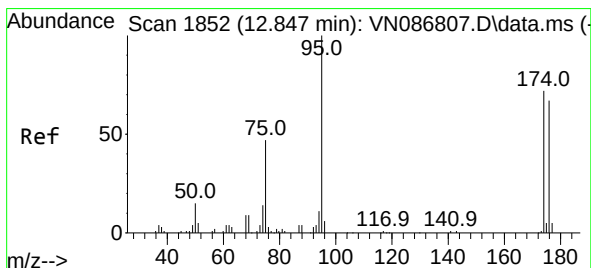
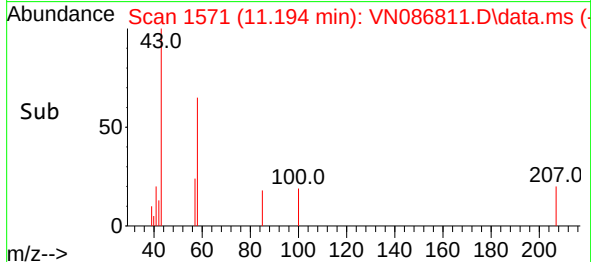
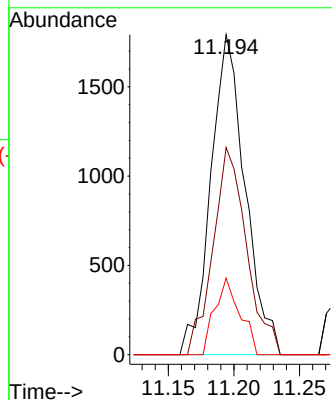
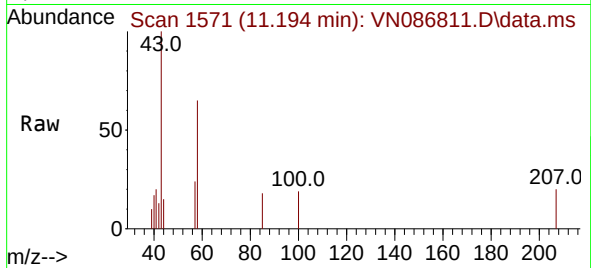




#59
2-Hexanone
Concen: 1.586 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.006 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

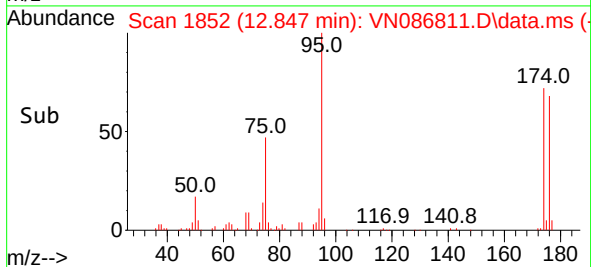
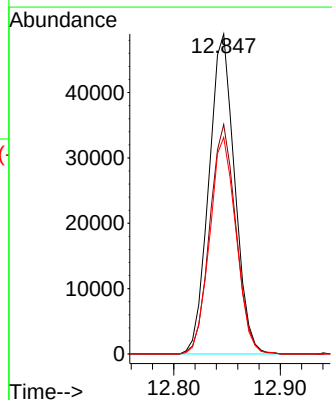
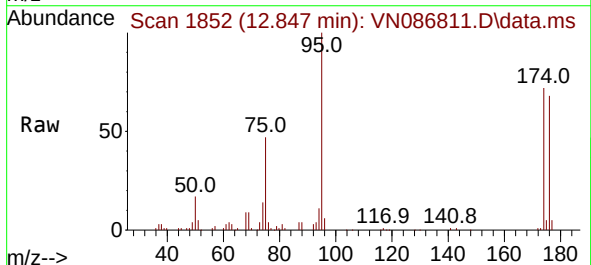
Instrument :
MSVOA_N
ClientSampleId :
IBLK

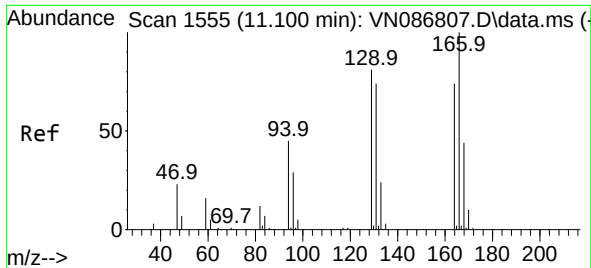
Tgt Ion: 43 Resp: 3249
Ion Ratio Lower Upper
43 100
58 63.3 49.1 73.7
57 17.5 16.6 25.0



#60
4-Bromofluorobenzene
Concen: 26.910 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion: 95 Resp: 82343
Ion Ratio Lower Upper
95 100
174 72.7 56.2 84.4
176 69.1 53.4 80.0

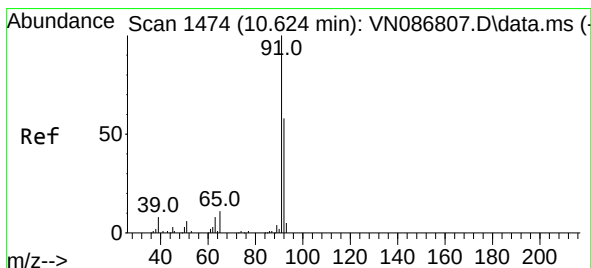
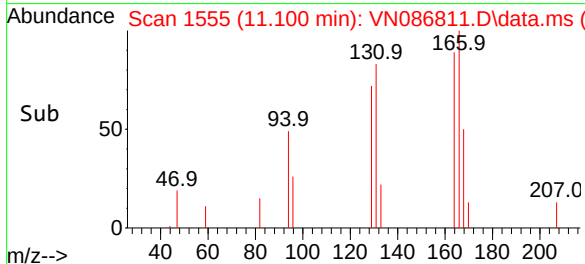
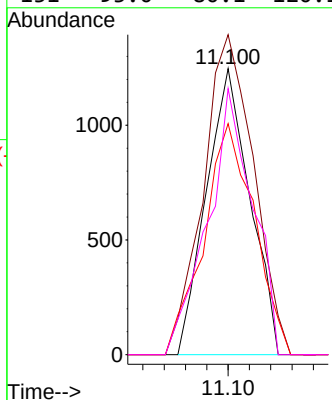
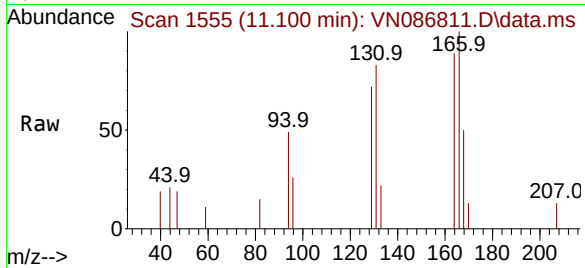




#61
Tetrachloroethene
Concen: 0.540 ug/l
RT: 11.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

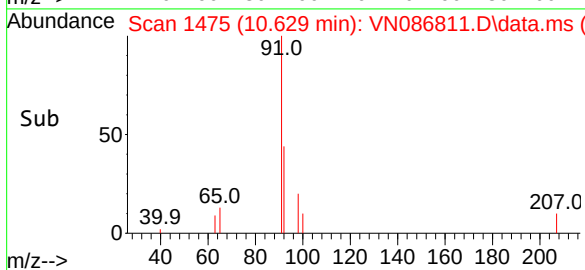
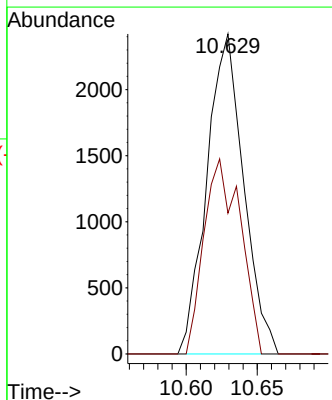
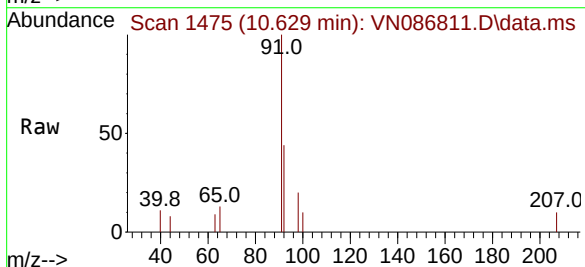
Instrument :
MSVOA_N
ClientSampleId :
IBLK

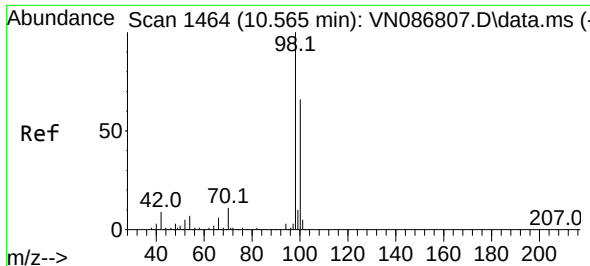
Tgt Ion:164 Resp: 1768
Ion Ratio Lower Upper
164 100
166 99.4 107.5 161.3#
129 68.2 87.4 131.2#
131 93.0 80.1 120.1



#62
Toluene
Concen: 0.397 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion: 91 Resp: 4362
Ion Ratio Lower Upper
91 100
92 60.5 46.6 70.0

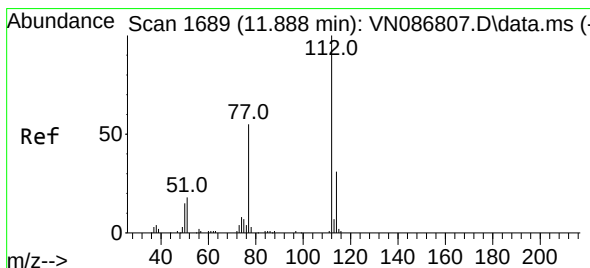
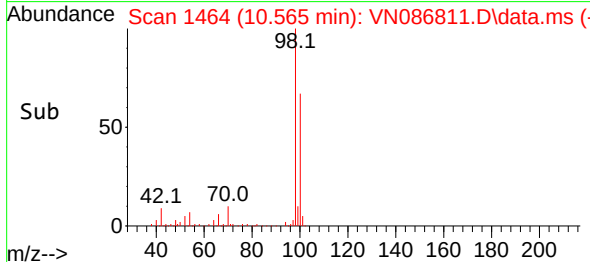
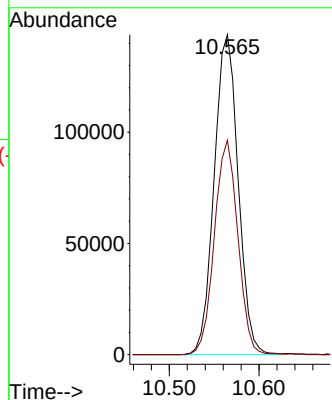
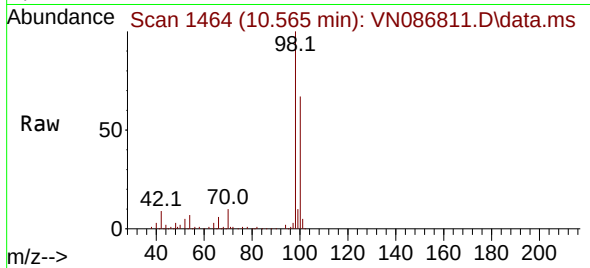




#63
Toluene-d8
Concen: 29.888 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

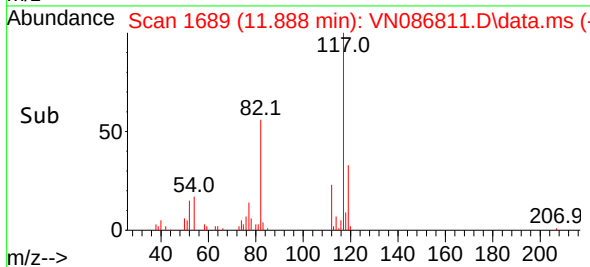
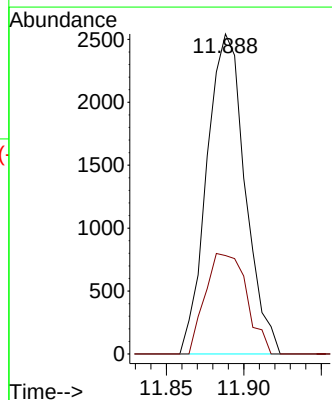
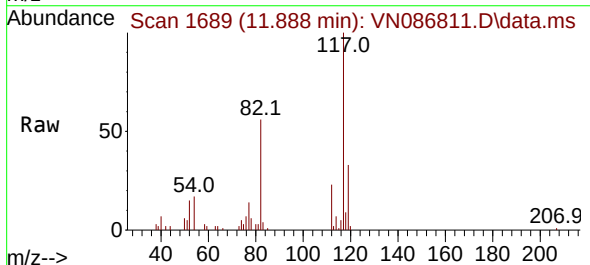
Instrument :
MSVOA_N
ClientSampleId :
IBLK

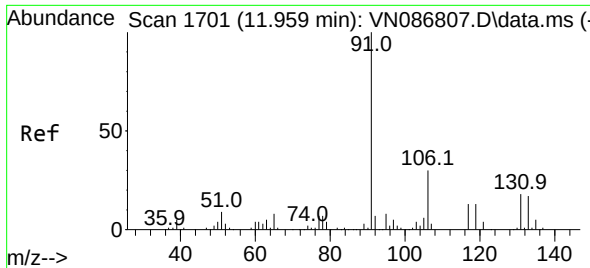
Tgt Ion: 98 Resp: 267372
Ion Ratio Lower Upper
98 100
100 65.5 52.7 79.1



#64
Chlorobenzene
Concen: 0.625 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion:112 Resp: 4373
Ion Ratio Lower Upper
112 100
114 30.8 25.1 37.7

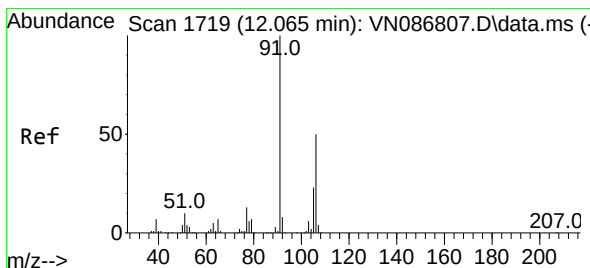
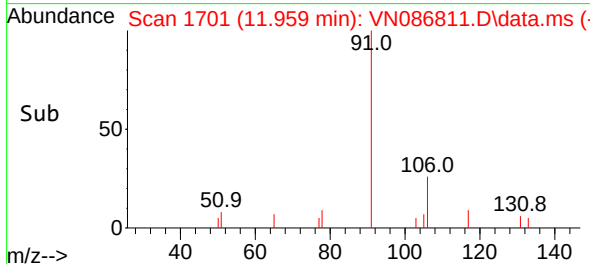
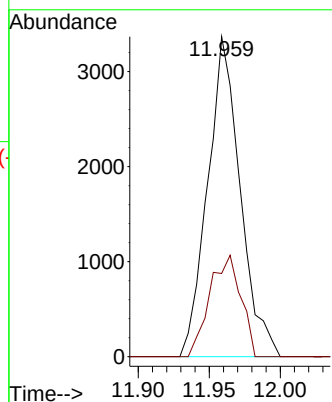
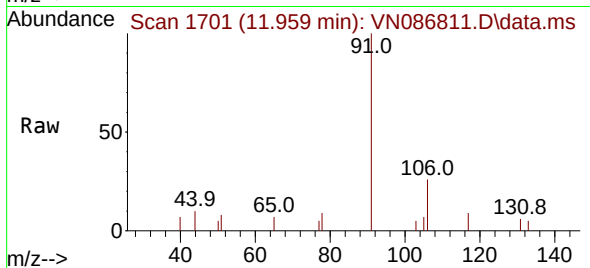




#66
Ethyl Benzene
Concen: 0.452 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

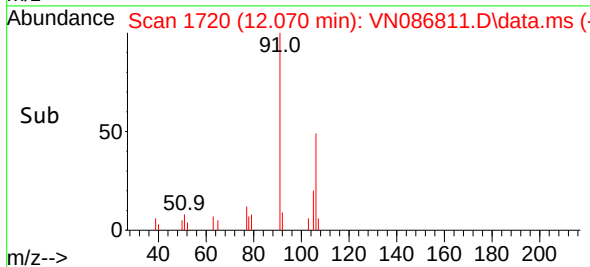
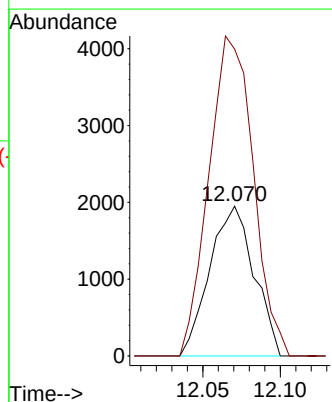
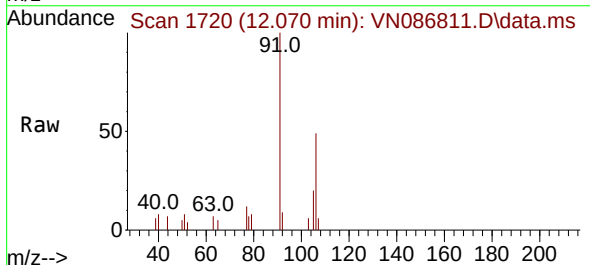
Instrument :
MSVOA_N
ClientSampleId :
IBLK

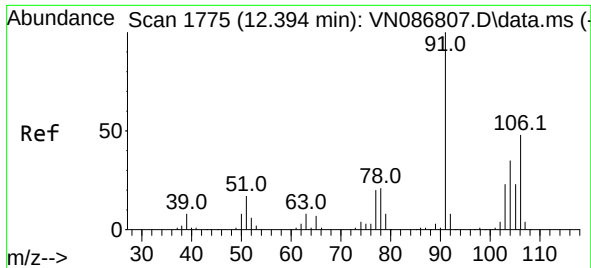
Tgt Ion: 91 Resp: 5362
Ion Ratio Lower Upper
91 100
106 26.0 23.6 35.4



#67
m/p-Xylenes
Concen: 0.835 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. 0.006 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion: 106 Resp: 3889
Ion Ratio Lower Upper
106 100
91 213.3 160.7 241.1

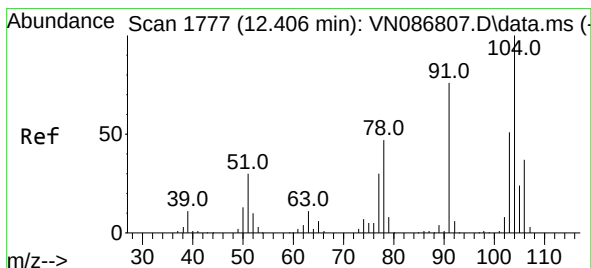
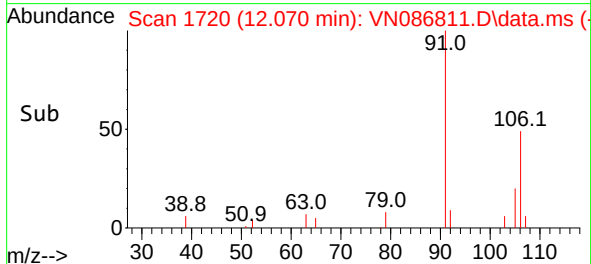
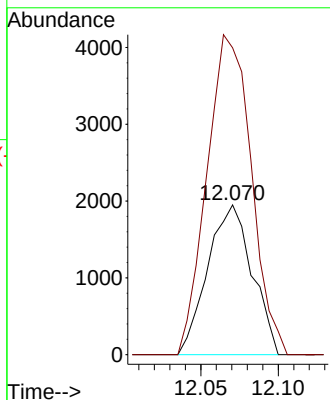
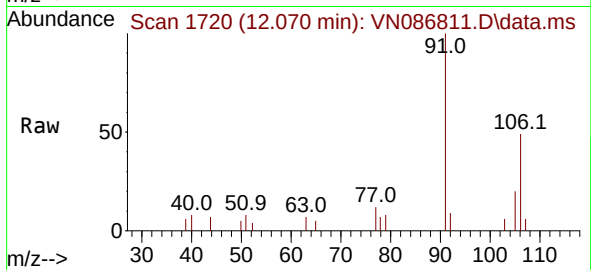




#68
o-Xylene
Concen: 0.861 ug/l
RT: 12.070 min Scan# 1775
Delta R.T. -0.324 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

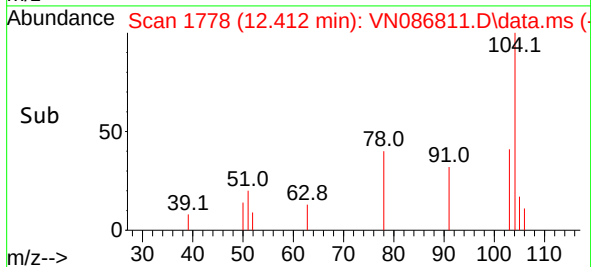
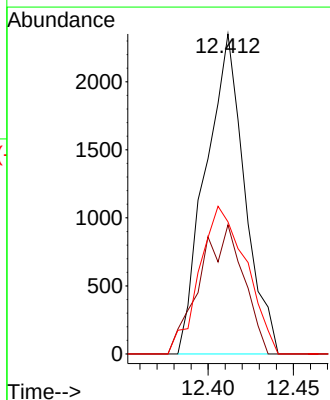
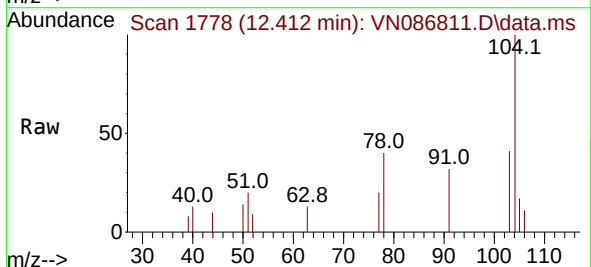
Instrument :
MSVOA_N
ClientSampleId :
IBLK

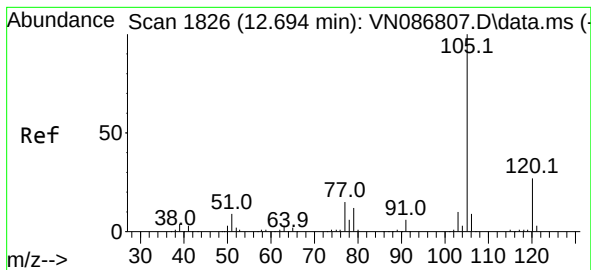
Tgt Ion:106 Resp: 3889
Ion Ratio Lower Upper
106 100
91 213.3 106.3 318.9



#69
Styrene
Concen: 0.497 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion:104 Resp: 3739
Ion Ratio Lower Upper
104 100
78 45.4 38.6 57.8
103 55.3 43.2 64.8





#70

Isopropylbenzene

Concen: 0.390 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN086811.D

Acq: 29 May 2025 12:56

Instrument :

MSVOA_N

ClientSampleId :

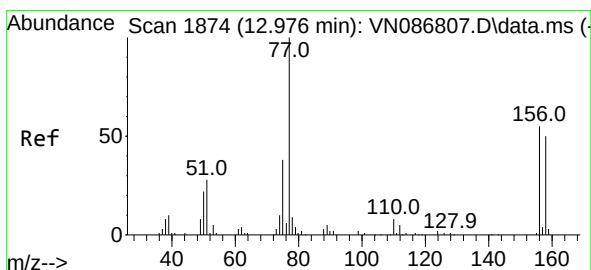
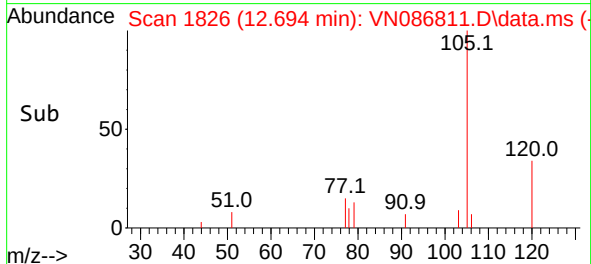
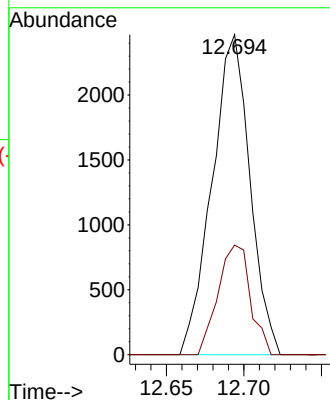
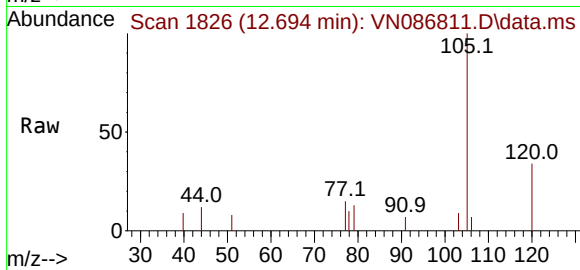
IBLK

Tgt Ion:105 Resp: 4189

Ion Ratio Lower Upper

105 100

120 29.3 19.0 35.2



#73

Bromobenzene

Concen: 0.743 ug/l

RT: 12.982 min Scan# 1875

Delta R.T. 0.006 min

Lab File: VN086811.D

Acq: 29 May 2025 12:56

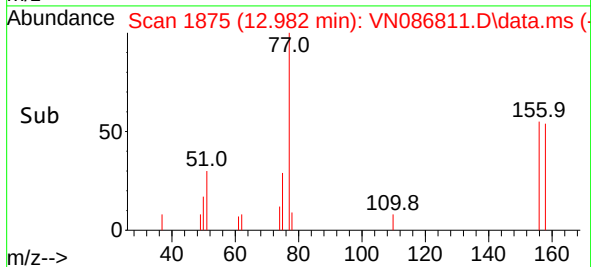
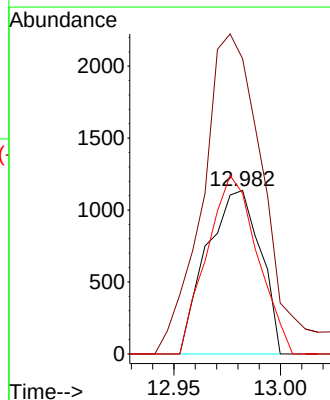
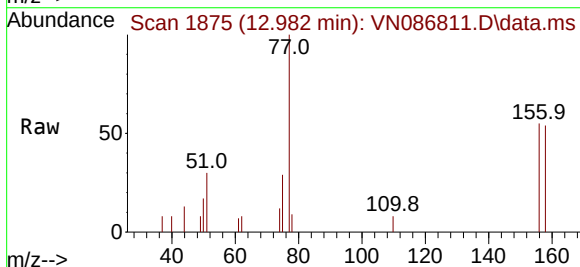
Tgt Ion:156 Resp: 1983

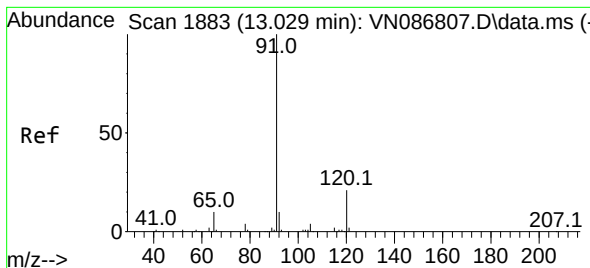
Ion Ratio Lower Upper

156 100

77 221.0 0.0 442.0

158 103.1 0.0 191.8





#74

n-propylbenzene

Concen: 0.599 ug/l

RT: 13.029 min Scan# 1883

Delta R.T. -0.000 min

Lab File: VN086811.D

Acq: 29 May 2025 12:56

Instrument :

MSVOA_N

ClientSampleId :

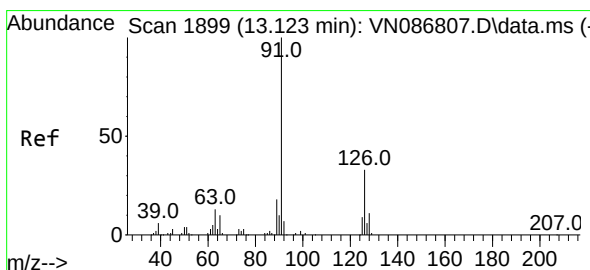
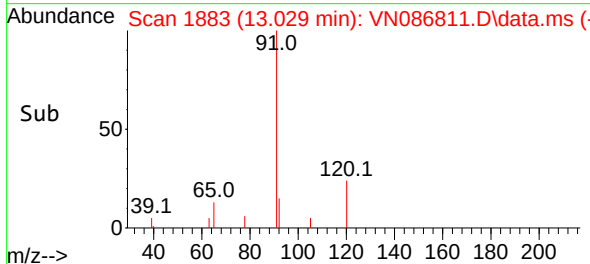
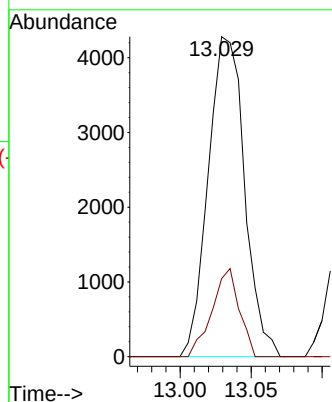
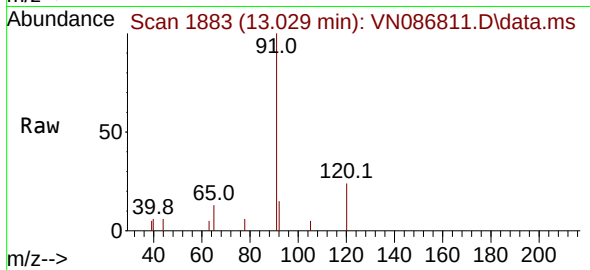
IBLK

Tgt Ion: 91 Resp: 7621

Ion Ratio Lower Upper

91 100

120 20.6 0.0 45.6



#75

2-Chlorotoluene

Concen: 0.583 ug/l

RT: 13.117 min Scan# 1898

Delta R.T. -0.006 min

Lab File: VN086811.D

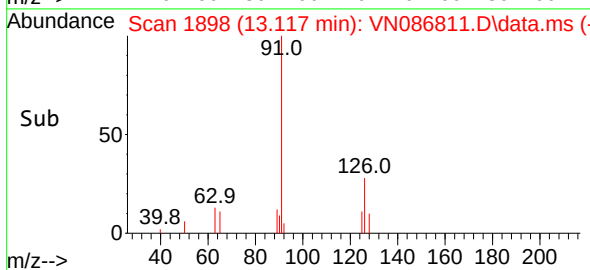
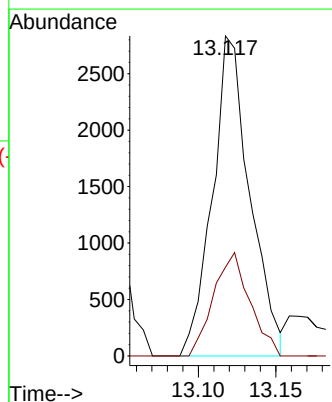
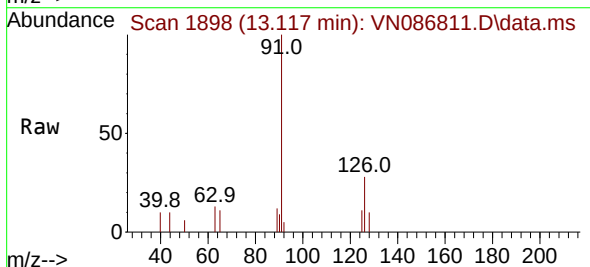
Acq: 29 May 2025 12:56

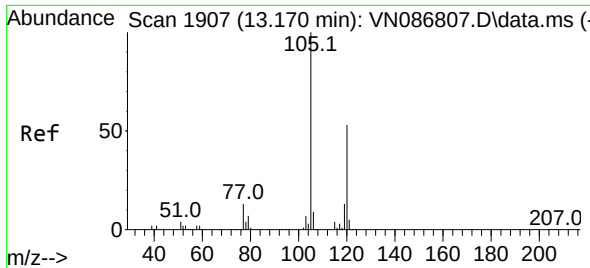
Tgt Ion: 91 Resp: 4758

Ion Ratio Lower Upper

91 100

126 31.4 0.0 64.4

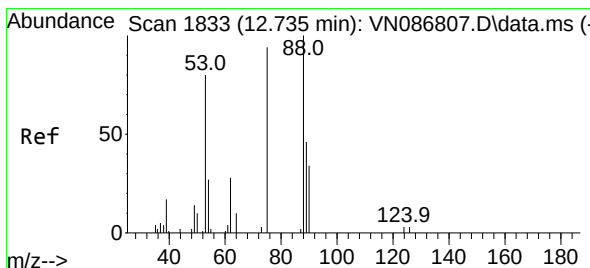
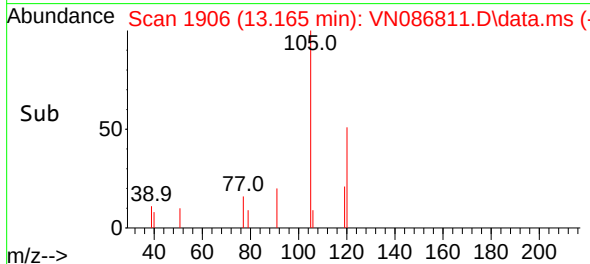
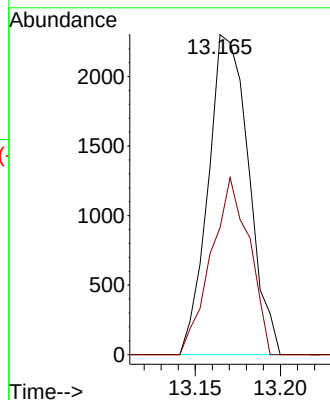
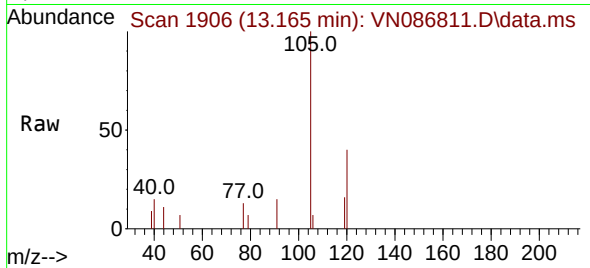




#76
1,3,5-Trimethylbenzene
Concen: 0.426 ug/l
RT: 13.165 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

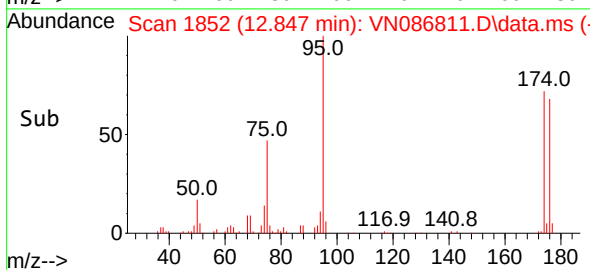
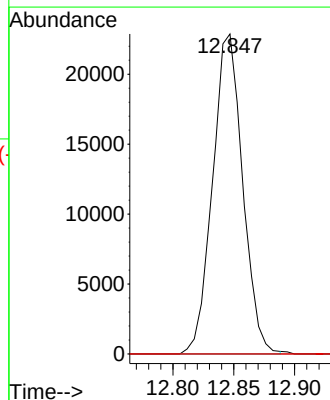
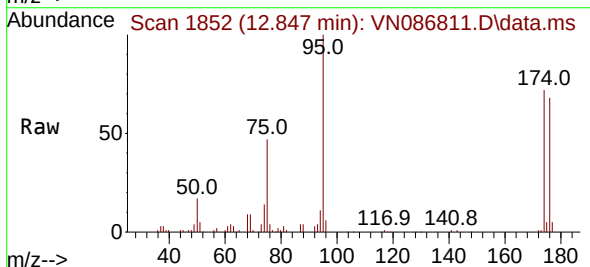
Instrument :
MSVOA_N
ClientSampleId :
IBLK

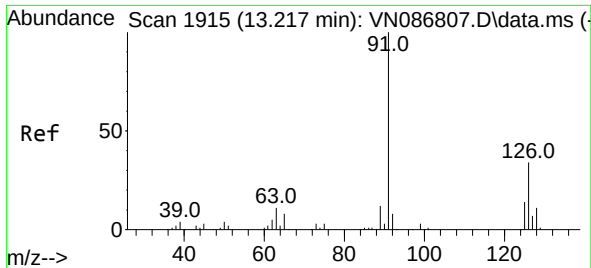
Tgt Ion:105 Resp: 3802
Ion Ratio Lower Upper
105 100
120 52.3 0.0 101.4



#77
t-1,4-Dichloro-2-butene
Concen: 32.100 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion: 75 Resp: 39311
Ion Ratio Lower Upper
75 100
53 0.0 43.0 128.8#
89 0.0 25.4 76.2#

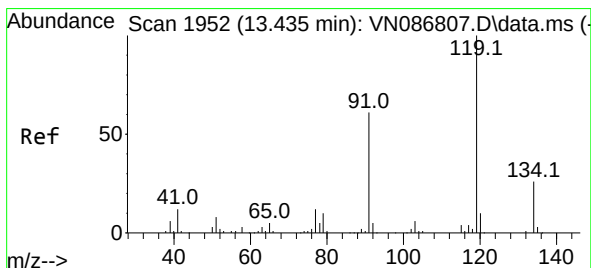
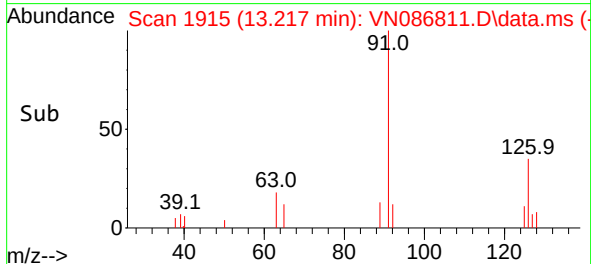
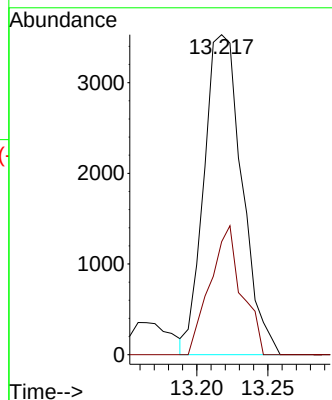
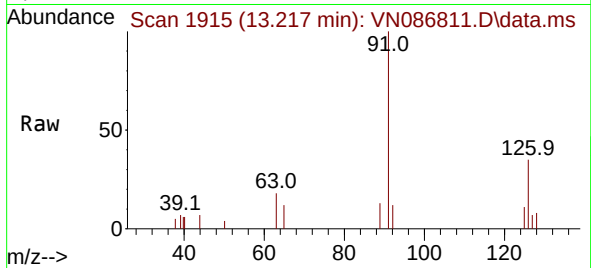




#78
4-Chlorotoluene
Concen: 0.812 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

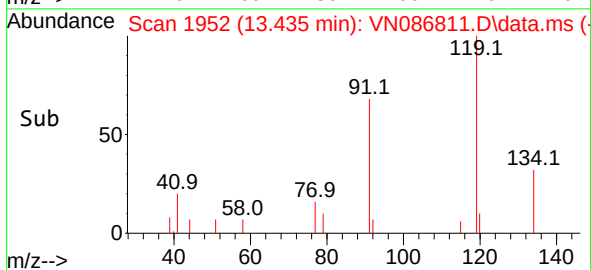
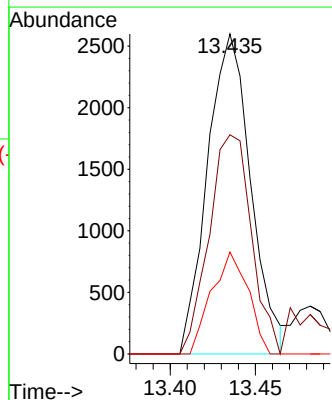
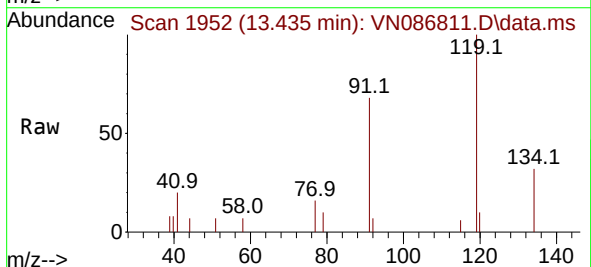
Instrument :
MSVOA_N
ClientSampleId :
IBLK

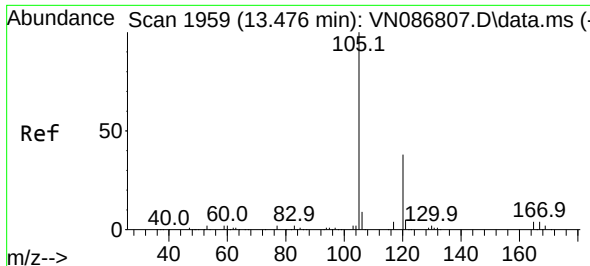
Tgt Ion: 91 Resp: 6571
Ion Ratio Lower Upper
91 100
126 33.6 0.0 66.6



#79
tert-butylbenzene
Concen: 0.593 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion: 119 Resp: 4583
Ion Ratio Lower Upper
119 100
91 67.0 0.0 130.4
134 26.9 0.0 50.6

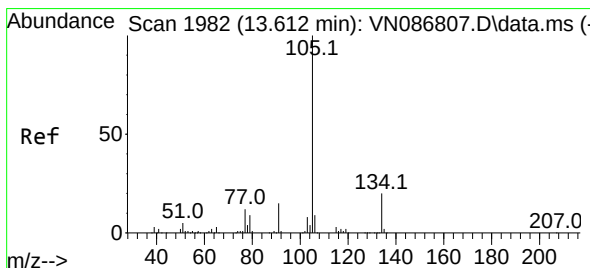
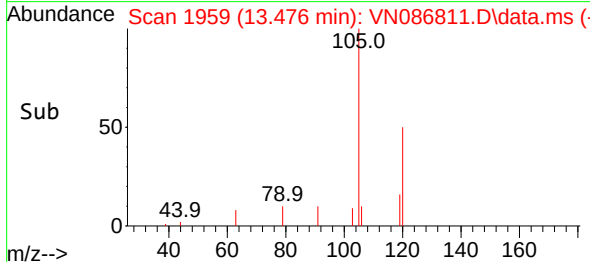
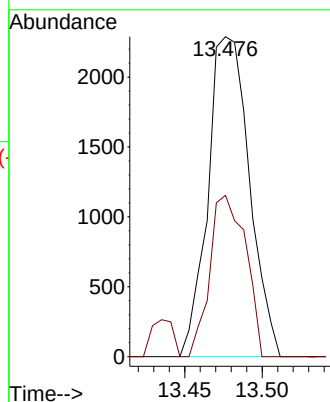
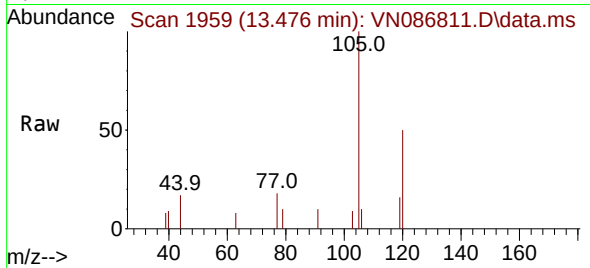




#80
 1,2,4-Trimethylbenzene
 Concen: 0.475 ug/l
 RT: 13.476 min Scan# 1959
 Delta R.T. -0.000 min
 Lab File: VN086811.D
 Acq: 29 May 2025 12:56

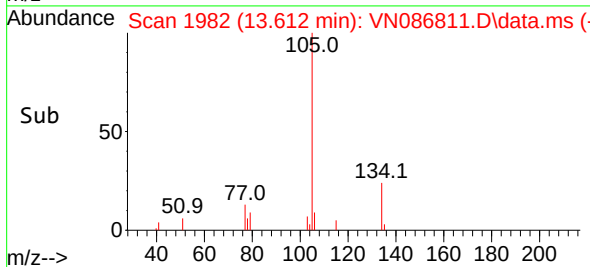
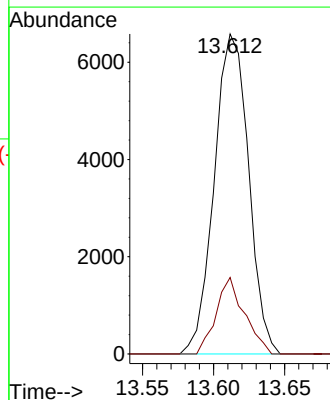
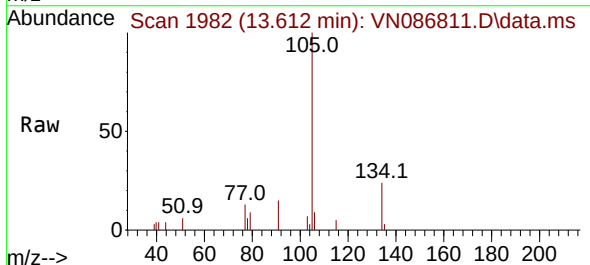
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

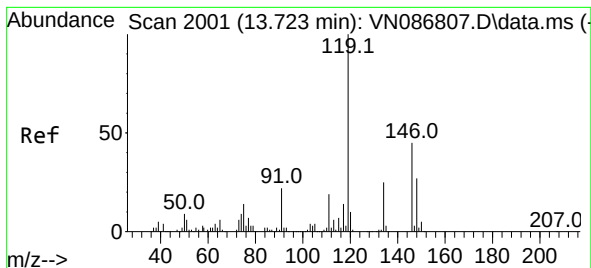
Tgt Ion:105 Resp: 4256
 Ion Ratio Lower Upper
 105 100
 120 43.6 0.0 92.2



#81
 sec-Butylbenzene
 Concen: 1.053 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: VN086811.D
 Acq: 29 May 2025 12:56

Tgt Ion:105 Resp: 11079
 Ion Ratio Lower Upper
 105 100
 134 19.7 0.0 40.0





#82

p-Isopropyltoluene

Concen: 1.027 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN086811.D

Acq: 29 May 2025 12:56

Instrument :

MSVOA_N

ClientSampleId :

IBLK

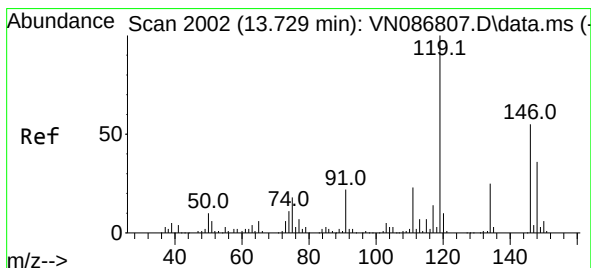
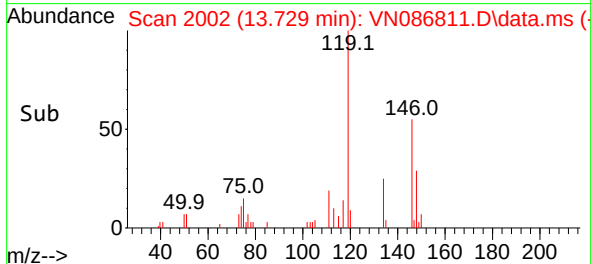
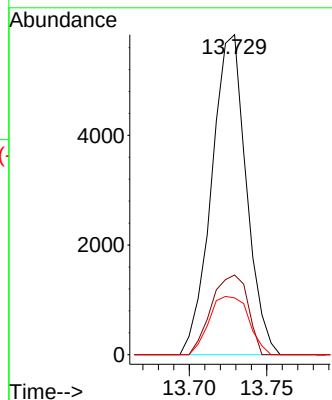
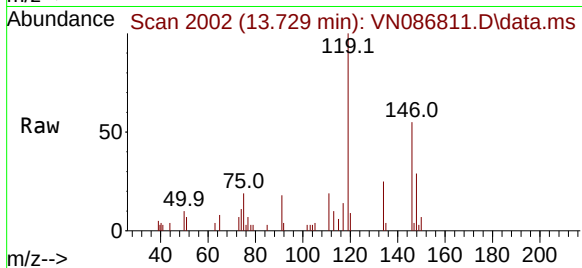
Tgt Ion:119 Resp: 9077

Ion Ratio Lower Upper

119 100

134 26.1 0.0 51.8

91 20.7 0.0 45.2



#83

1,3-Dichlorobenzene

Concen: 1.043 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086811.D

Acq: 29 May 2025 12:56

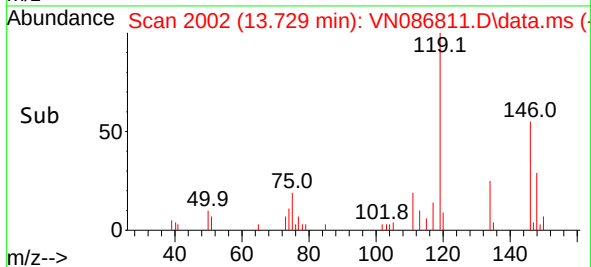
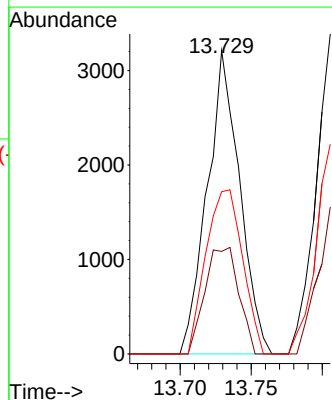
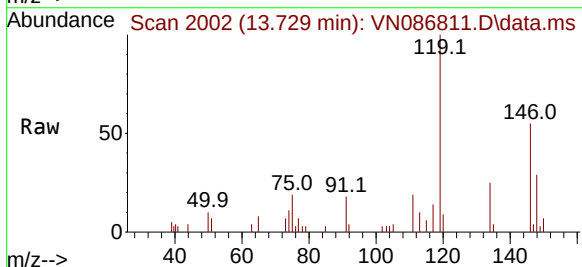
Tgt Ion:146 Resp: 5106

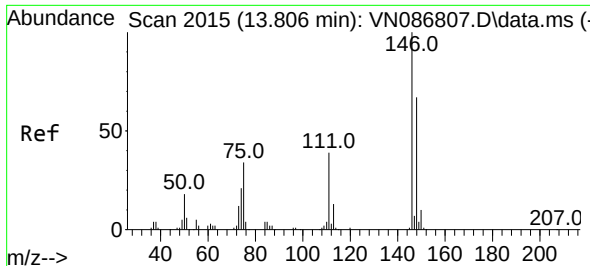
Ion Ratio Lower Upper

146 100

111 36.6 21.1 63.1

148 61.0 32.1 96.5

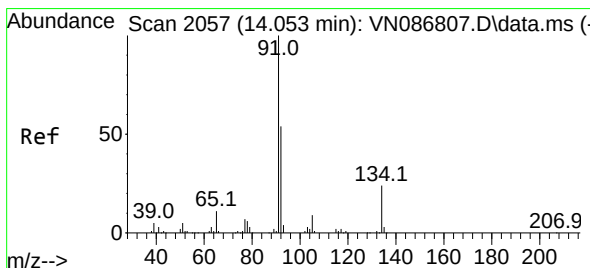
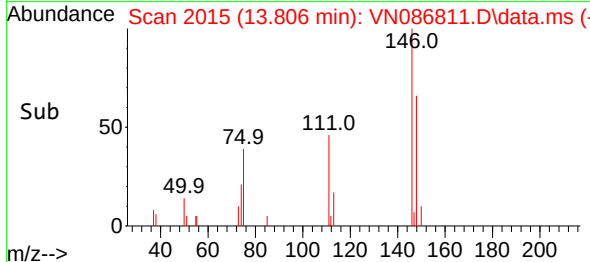
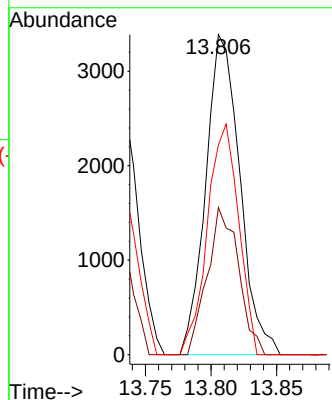
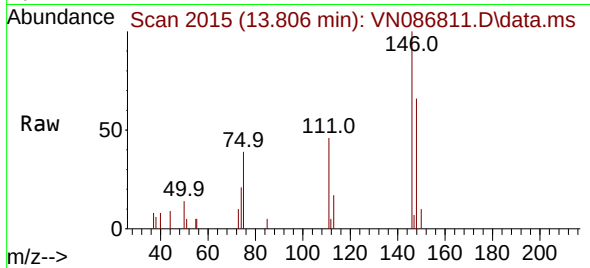




#84
1,4-Dichlorobenzene
Concen: 1.260 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

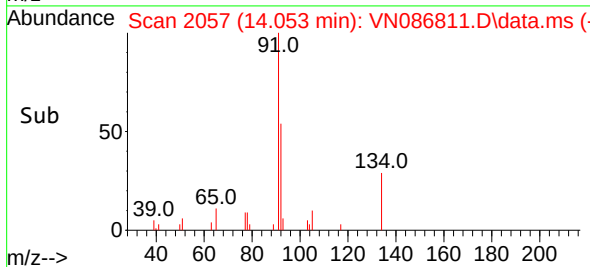
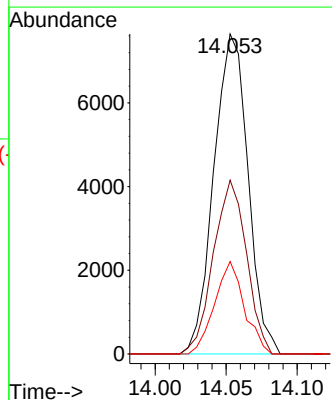
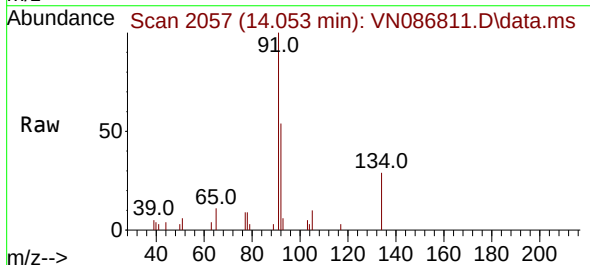
Instrument :
MSVOA_N
ClientSampleId :
IBLK

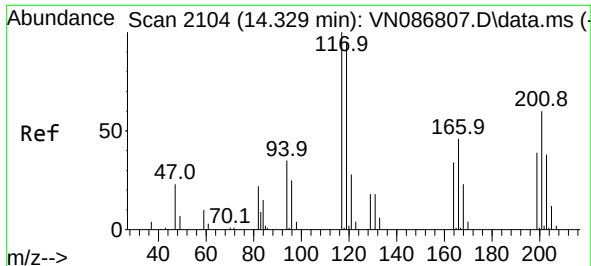
Tgt Ion:146 Resp: 6140
Ion Ratio Lower Upper
146 100
111 42.2 19.8 59.4
148 66.1 31.9 95.5



#85
n-Butylbenzene
Concen: 1.729 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion: 91 Resp: 12790
Ion Ratio Lower Upper
91 100
92 52.7 0.0 107.6
134 25.2 0.0 50.0

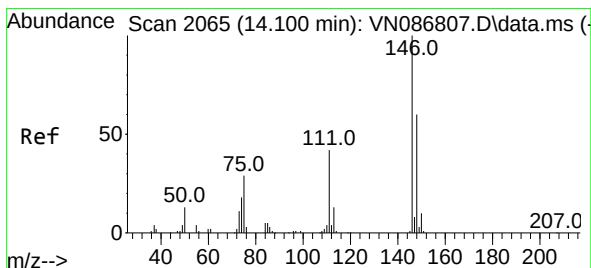
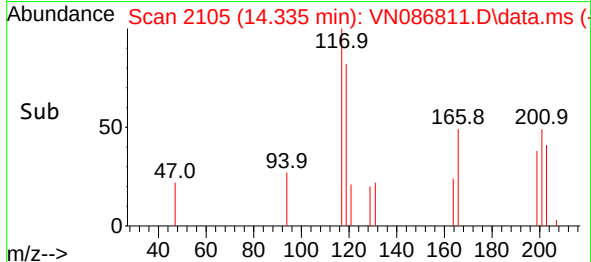
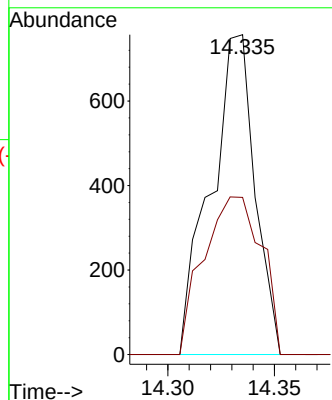
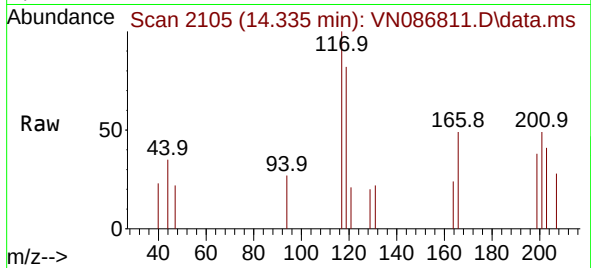




#86
Hexachloroethane
Concen: 0.726 ug/l
RT: 14.335 min Scan# 2104
Delta R.T. 0.006 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

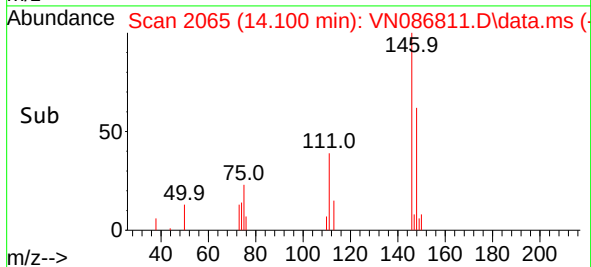
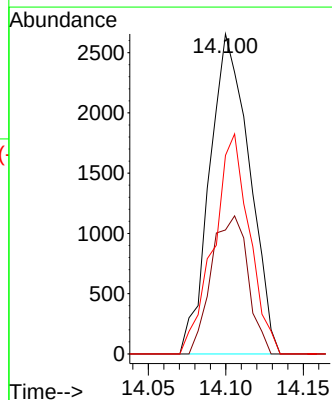
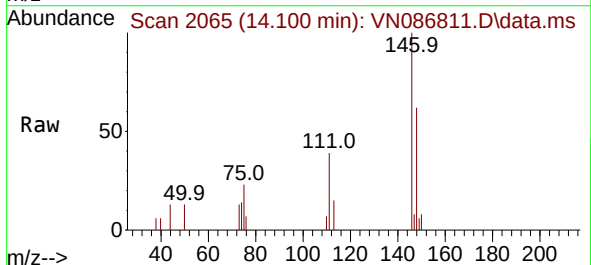
Instrument :
MSVOA_N
ClientSampleId :
IBLK

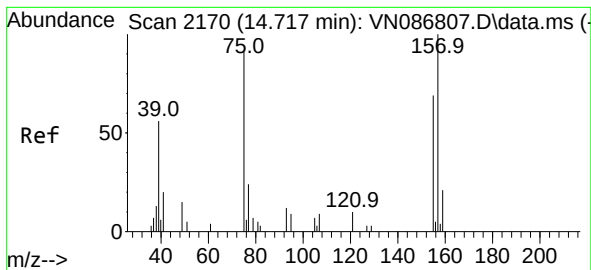
Tgt Ion:117 Resp: 1093
Ion Ratio Lower Upper
117 100
201 64.6 31.4 94.3



#87
1,2-Dichlorobenzene
Concen: 1.003 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

Tgt Ion:146 Resp: 4736
Ion Ratio Lower Upper
146 100
111 39.7 21.6 64.8
148 62.1 31.6 94.7

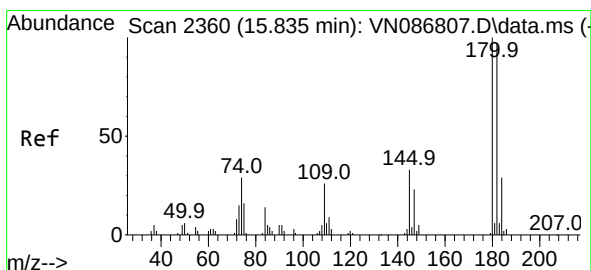
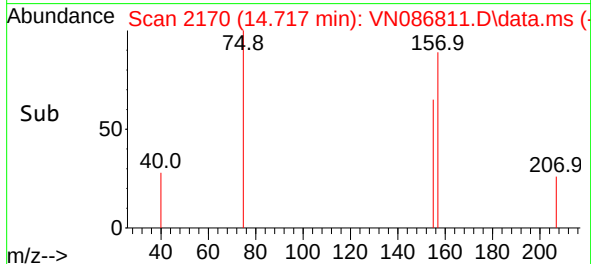
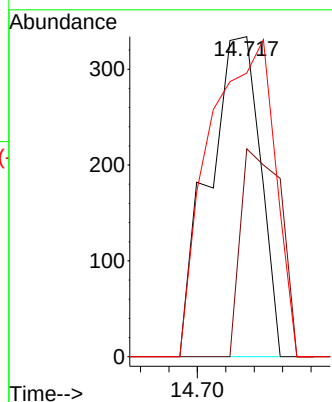
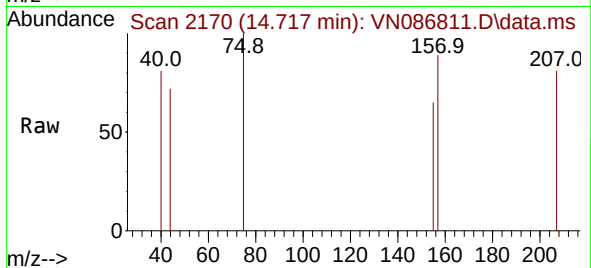




#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.789 ug/l
 RT: 14.717 min Scan# 2170
 Delta R.T. -0.000 min
 Lab File: VN086811.D
 Acq: 29 May 2025 12:56

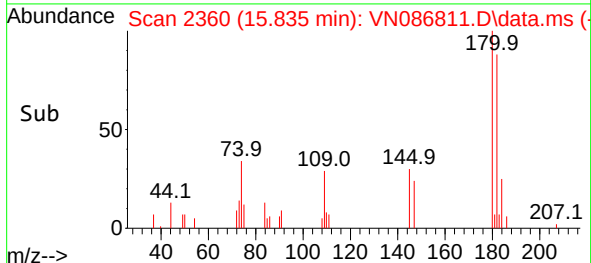
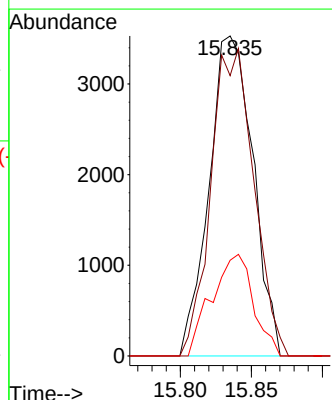
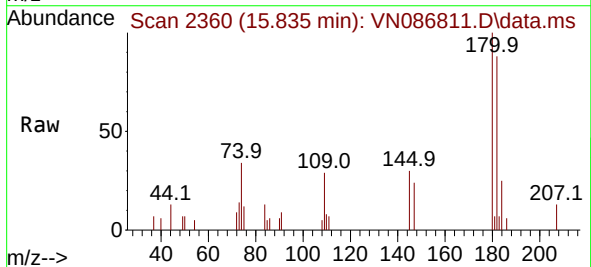
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

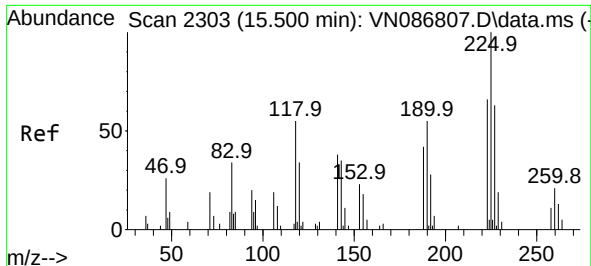
Tgt Ion: 75 Resp: 424
 Ion Ratio Lower Upper
 75 100
 155 50.2 62.9 94.3#
 157 124.5 84.0 126.0



#89
 1,2,4-Trichlorobenzene
 Concen: 3.829 ug/l
 RT: 15.835 min Scan# 2360
 Delta R.T. -0.000 min
 Lab File: VN086811.D
 Acq: 29 May 2025 12:56

Tgt Ion: 180 Resp: 7569
 Ion Ratio Lower Upper
 180 100
 182 94.2 78.2 117.2
 145 30.3 28.0 42.0

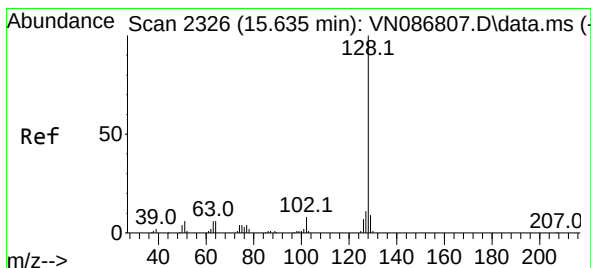
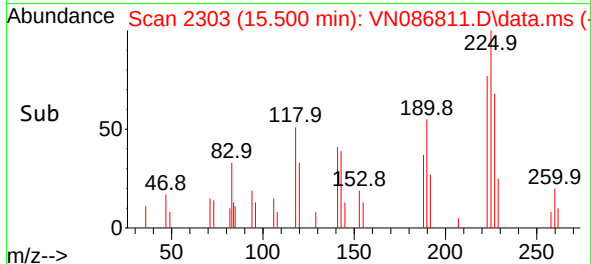
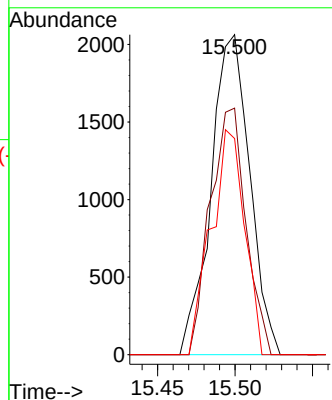
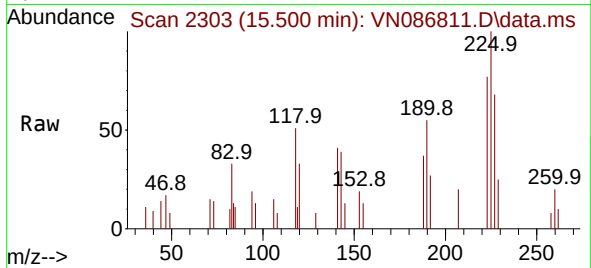




#90
Hexachlorobutadiene
Concen: 4.236 ug/l
RT: 15.500 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

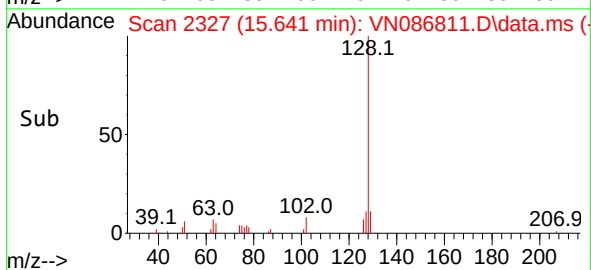
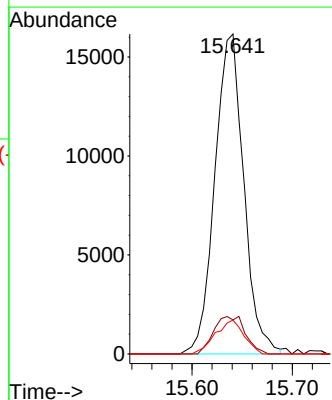
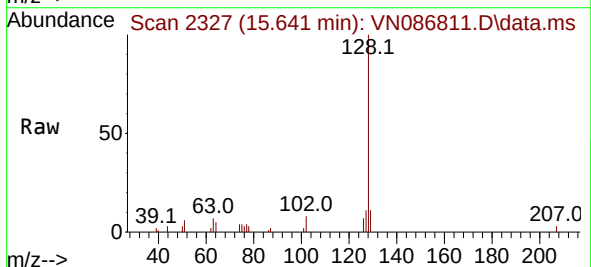
Instrument :
MSVOA_N
ClientSampleId :
IBLK

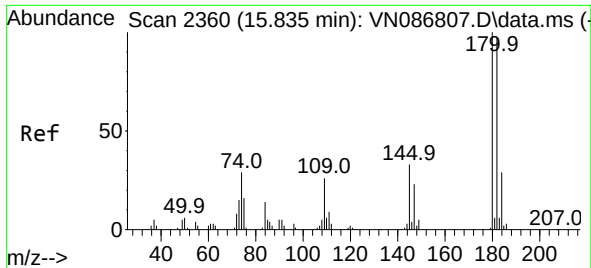
Tgt Ion:225 Resp: 3589
Ion Ratio Lower Upper
225 100
223 71.0 0.0 135.8
227 61.0 0.0 125.0



#91
Naphthalene
Concen: 4.695 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN086811.D
Acq: 29 May 2025 12:56

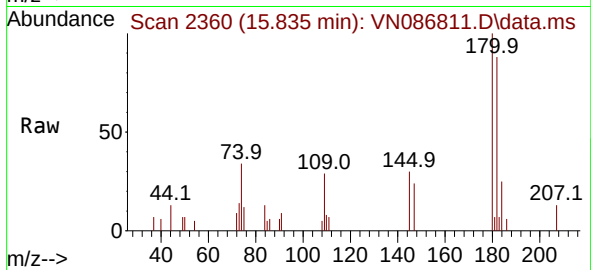
Tgt Ion:128 Resp: 32385
Ion Ratio Lower Upper
128 100
127 8.5 9.8 14.6#
129 10.5 8.6 13.0





#92
 1,2,3-Trichlorobenzene
 Concen: 3.829 ug/l
 RT: 15.835 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN086811.D
 Acq: 29 May 2025 12:56

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK



Tgt Ion:180 Resp: 7569
 Ion Ratio Lower Upper
 180 100
 182 94.2 0.0 195.4
 145 30.3 0.0 70.0

