

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
 Data File : BM050073.D
 Acq On : 01 May 2025 20:39
 Operator : RC/JU
 Sample : Q1907-01 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CO-8R-WC

Quant Time: May 02 01:12:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 18:09:16 2025
 Response via : Initial Calibration

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

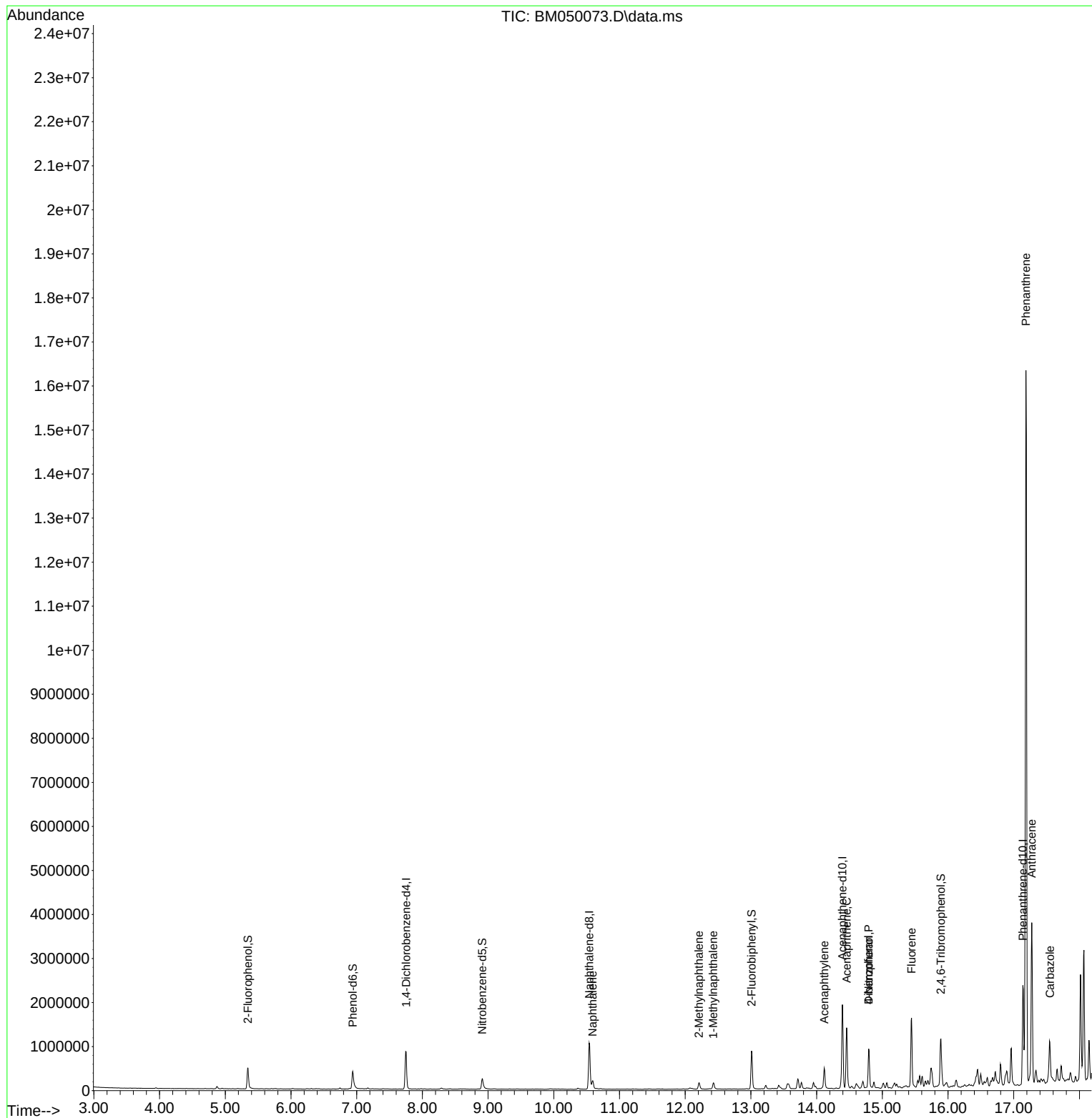
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.751	152	261067	20.000	ng	-0.02
21) Naphthalene-d8	10.539	136	957967	20.000	ng	-0.02
39) Acenaphthene-d10	14.392	164	663584	20.000	ng	-0.02
64) Phenanthrene-d10	17.139	188	1390483	20.000	ng	-0.02
76) Chrysene-d12	21.386	240	1453480	20.000	ng	-0.01
86) Perylene-d12	24.380	264	1382749	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.346	112	250468	16.800	ng	-0.01
7) Phenol-d6	6.940	99	319388	17.044	ng	-0.01
23) Nitrobenzene-d5	8.910	82	182710	9.398	ng	-0.02
42) 2,4,6-Tribromophenol	15.892	330	151762	15.467	ng	-0.01
45) 2-Fluorobiphenyl	13.010	172	505874	9.018	ng	-0.02
79) Terphenyl-d14	19.768	244	726960	7.401	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	10.592	128	155292	3.201	ng	98
37) 2-Methylnaphthalene	12.210	142	86734	2.667	ng	95
38) 1-Methylnaphthalene	12.428	142	75776	2.201	ng	99
49) Acenaphthylene	14.116	152	318404	5.169	ng	99
52) Acenaphthene	14.457	154	477647	13.396	ng	98
55) Dibenzofuran	14.792	168	552659	9.316	ng	98
56) 4-Nitrophenol	14.792	139	185775	27.005	ng	# 13
58) Fluorene	15.445	166	708618	14.594	ng	99
71) Phenanthrene	17.186	178	10493173	133.799	ng	98
72) Anthracene	17.274	178	2280071	28.729	ng	100
73) Carbazole	17.551	167	617081	8.960	ng	100
75) Fluoranthene	19.204	202	12031713	130.672	ng	96
78) Pyrene	19.568	202	11619150	113.837	ng	96
80) Butylbenzylphthalate	20.462	149	184478	4.826	ng	95
81) Benzo(a)anthracene	21.368	228	5196628	51.919	ng	96
83) Chrysene	21.427	228	4718791	50.939	ng	97
87) Indeno(1,2,3-cd)pyrene	27.762	276	2706389	26.267	ng	97
88) Benzo(b)fluoranthene	23.439	252	5178205	57.584	ng	98
89) Benzo(k)fluoranthene	23.439	252	5178205	56.928	ng	98
90) Benzo(a)pyrene	24.239	252	4196882	49.830	ng	98
91) Dibenzo(a,h)anthracene	27.785	278	686323	8.172	ng	93
92) Benzo(g,h,i)perylene	28.815	276	2657877	33.055	ng	100

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

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CO-8R-WC

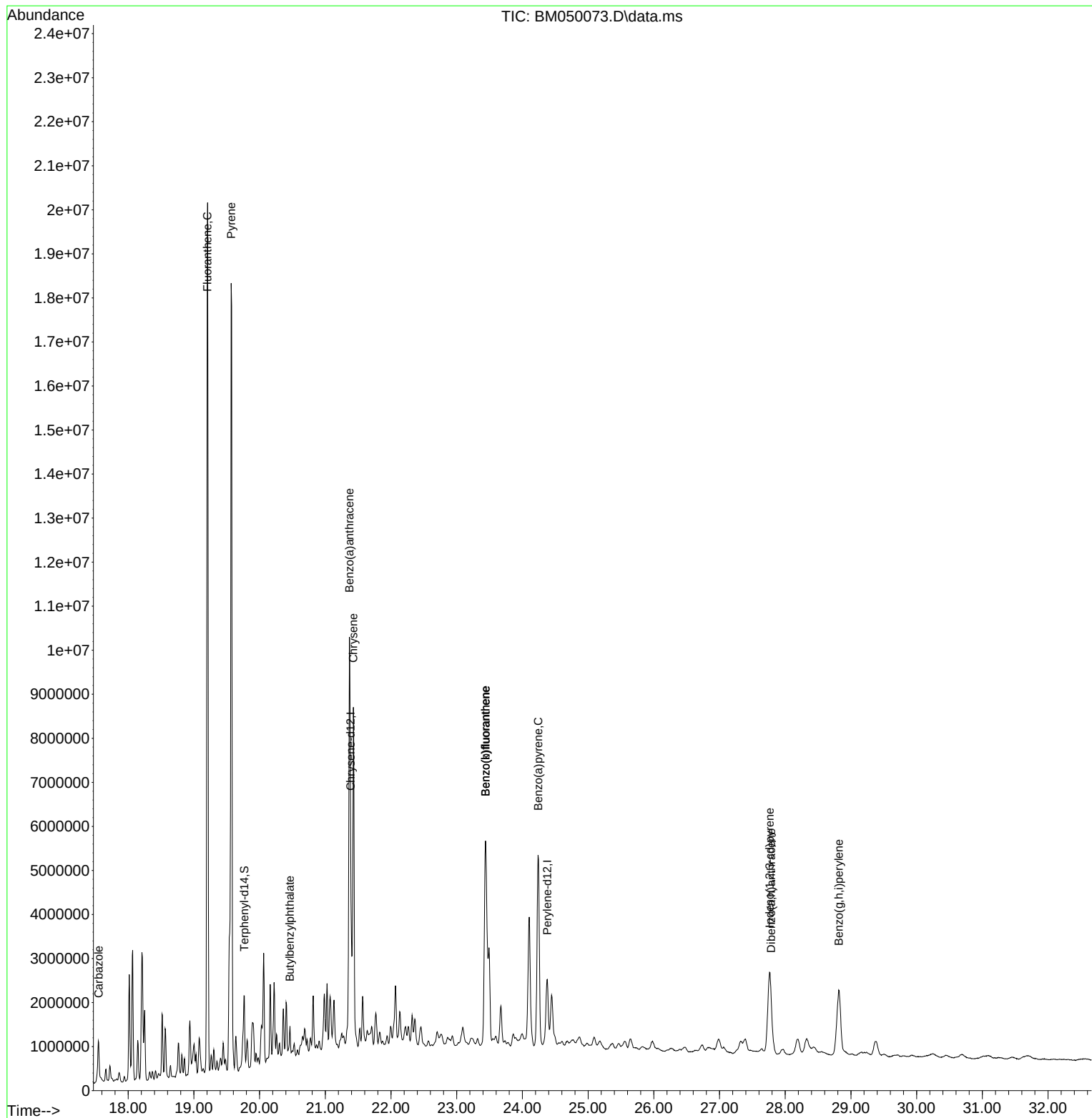
Quant Time: May 02 01:12:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration

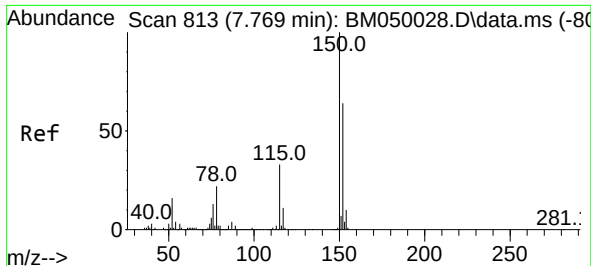


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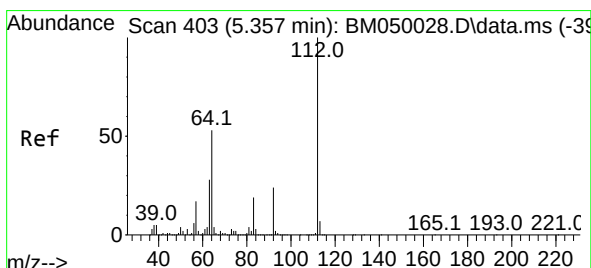
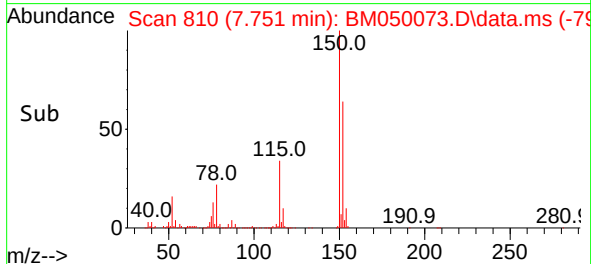
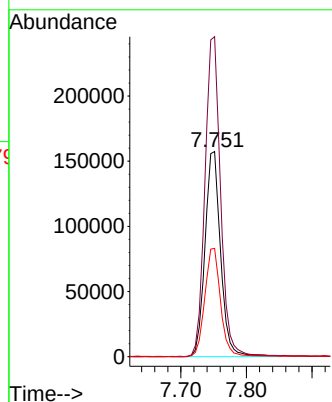
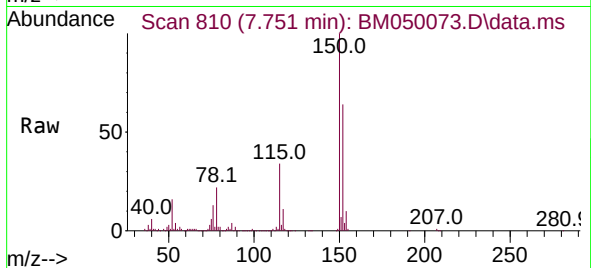




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.751 min Scan# 81
Delta R.T. -0.018 min
Lab File: BM050073.D
Acq: 01 May 2025 20:39

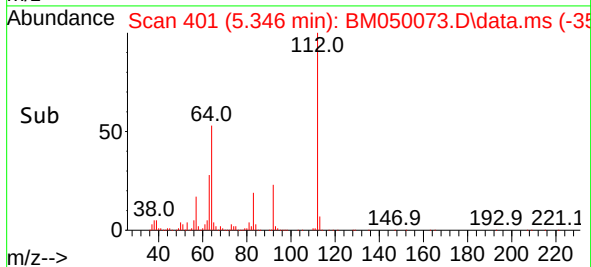
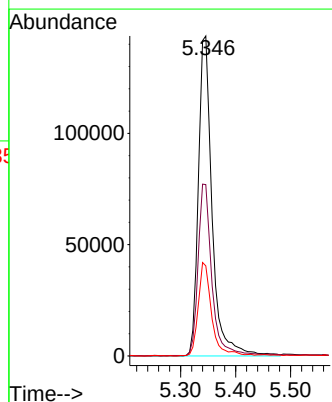
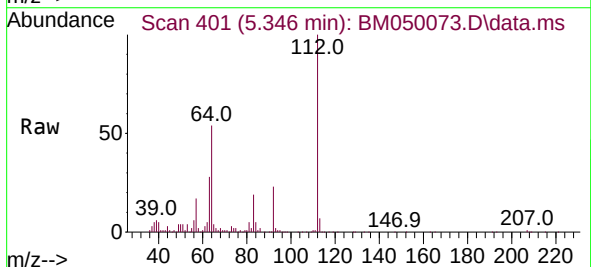
Instrument :
BNA_M
ClientSampleId :
CO-8R-WC

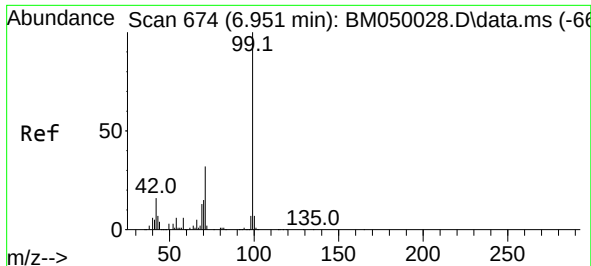
Tgt Ion:152 Resp: 261067
Ion Ratio Lower Upper
152 100
150 156.0 124.1 186.1
115 52.9 41.2 61.8



#5
2-Fluorophenol
Concen: 16.800 ng
RT: 5.346 min Scan# 401
Delta R.T. -0.012 min
Lab File: BM050073.D
Acq: 01 May 2025 20:39

Tgt Ion:112 Resp: 250468
Ion Ratio Lower Upper
112 100
64 53.6 42.6 64.0
63 28.1 22.2 33.4

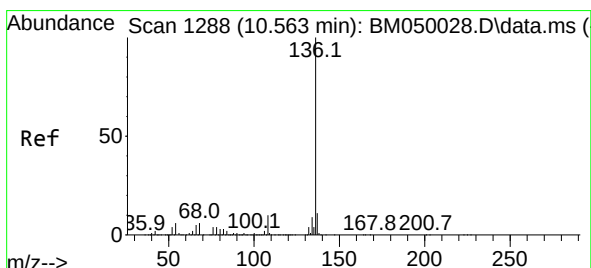
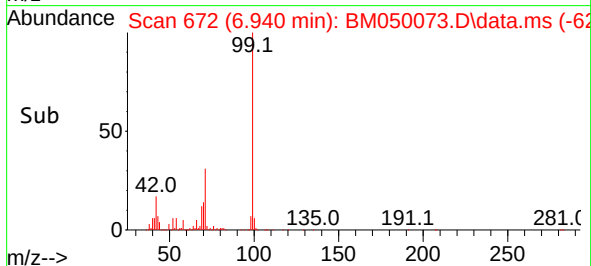
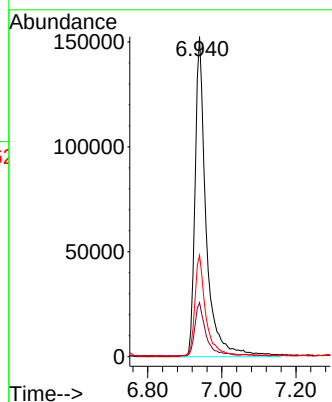
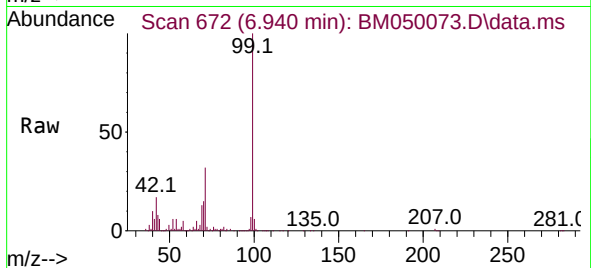




#7
Phenol-d6
Concen: 17.044 ng
RT: 6.940 min Scan# 61
Delta R.T. -0.012 min
Lab File: BM050073.D
Acq: 01 May 2025 20:39

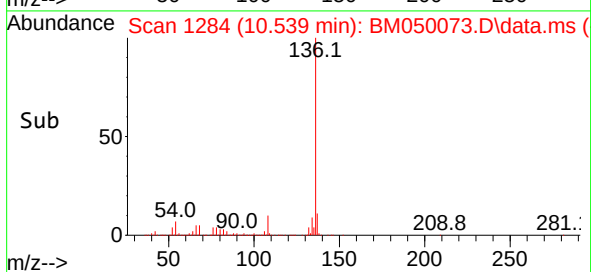
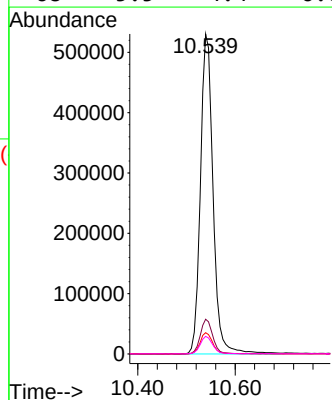
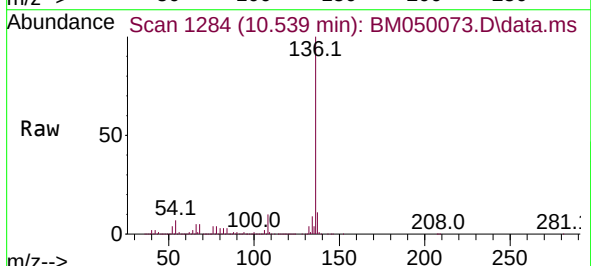
Instrument :
BNA_M
ClientSampleId :
CO-8R-WC

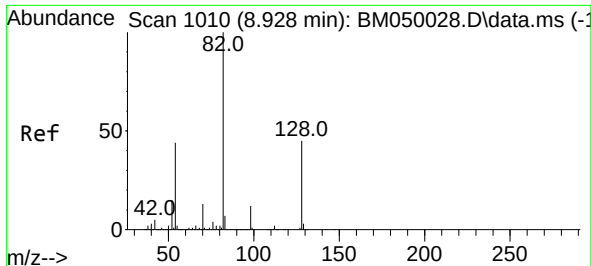
Tgt Ion: 99 Resp: 319388
Ion Ratio Lower Upper
99 100
42 16.9 13.0 19.4
71 31.7 25.6 38.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.539 min Scan# 1284
Delta R.T. -0.023 min
Lab File: BM050073.D
Acq: 01 May 2025 20:39

Tgt Ion: 136 Resp: 957967
Ion Ratio Lower Upper
136 100
137 10.9 8.9 13.3
54 6.6 5.1 7.7
68 5.5 4.4 6.6





#23

Nitrobenzene-d5

Concen: 9.398 ng

RT: 8.910 min Scan# 1007

Delta R.T. -0.018 min

Lab File: BM050073.D

Acq: 01 May 2025 20:39

Instrument :

BNA_M

ClientSampleId :

CO-8R-WC

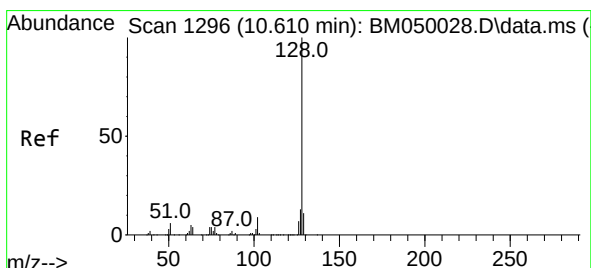
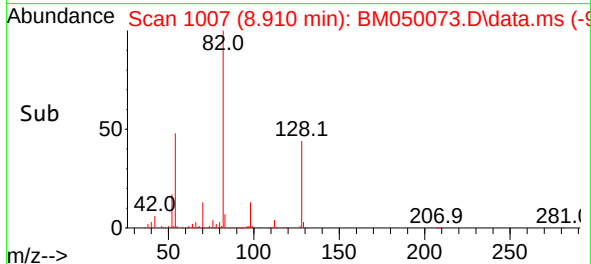
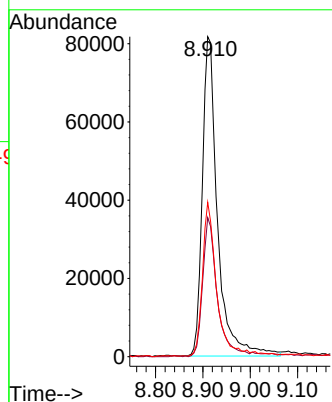
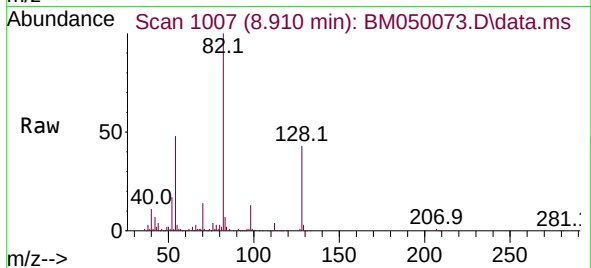
Tgt Ion: 82 Resp: 182710

Ion Ratio Lower Upper

82 100

128 43.5 35.7 53.5

54 48.3 35.4 53.2



#31

Naphthalene

Concen: 3.201 ng

RT: 10.592 min Scan# 1293

Delta R.T. -0.018 min

Lab File: BM050073.D

Acq: 01 May 2025 20:39

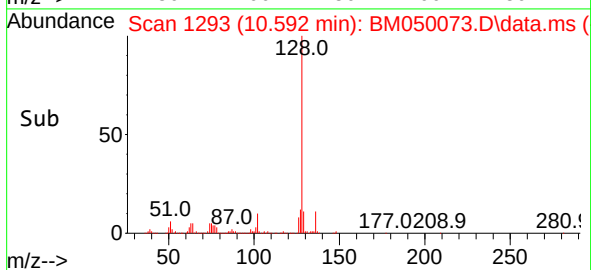
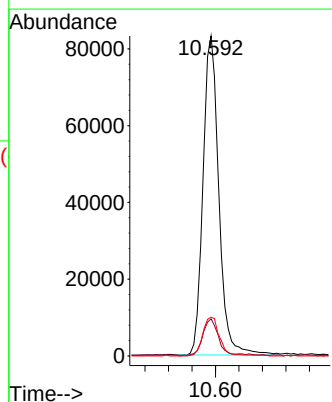
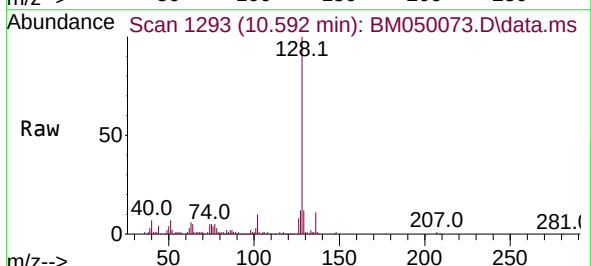
Tgt Ion:128 Resp: 155292

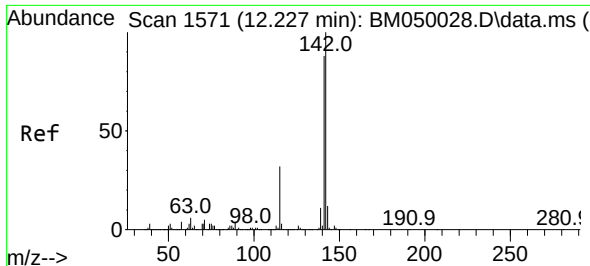
Ion Ratio Lower Upper

128 100

129 11.6 8.8 13.2

127 12.1 10.4 15.6

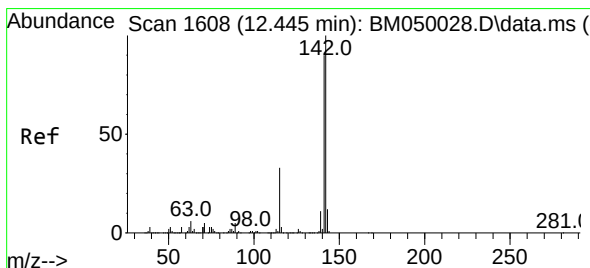
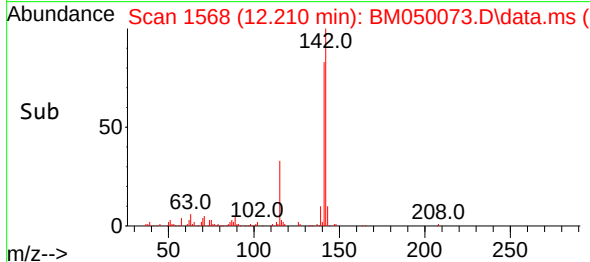
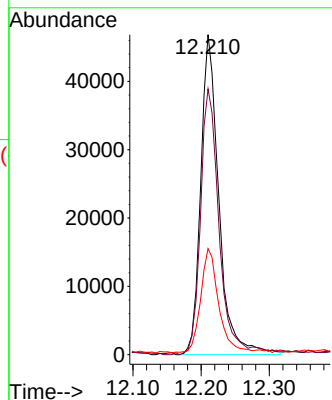
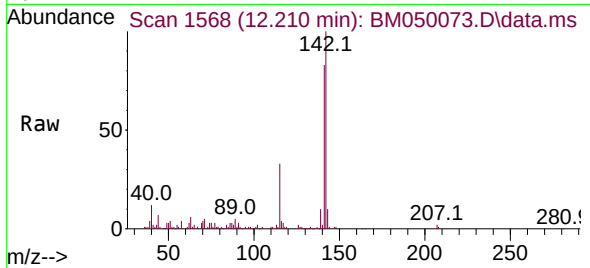




#37
2-Methylnaphthalene
Concen: 2.667 ng
RT: 12.210 min Scan# 1568
Delta R.T. -0.018 min
Lab File: BM050073.D
Acq: 01 May 2025 20:39

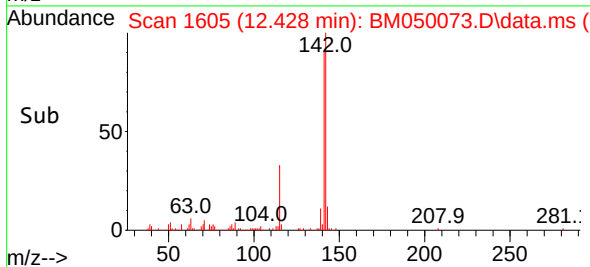
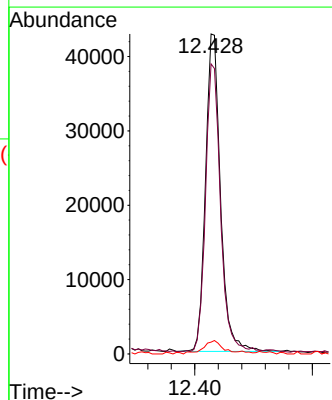
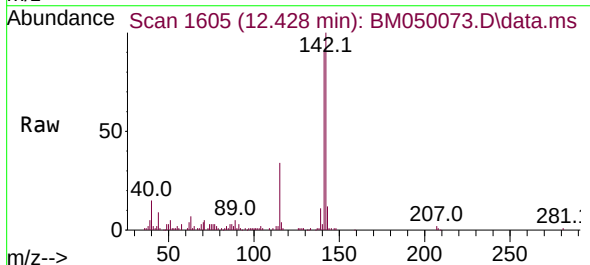
Instrument :
BNA_M
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CO-8R-WC

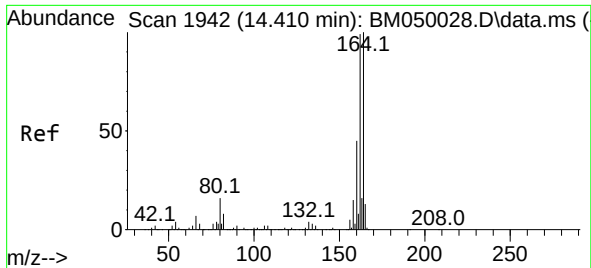
Tgt Ion:142 Resp: 86734
Ion Ratio Lower Upper
142 100
141 83.0 70.4 105.6
115 33.2 25.4 38.2



#38
1-Methylnaphthalene
Concen: 2.201 ng
RT: 12.428 min Scan# 1605
Delta R.T. -0.018 min
Lab File: BM050073.D
Acq: 01 May 2025 20:39

Tgt Ion:142 Resp: 75776
Ion Ratio Lower Upper
142 100
141 90.7 72.1 108.1
116 3.7 2.7 4.1

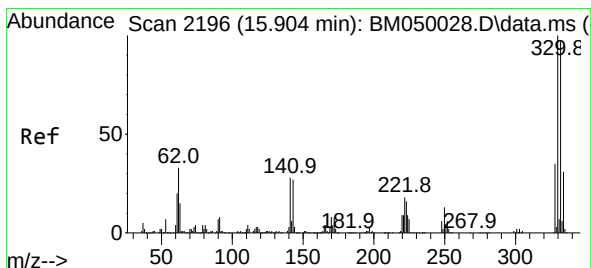
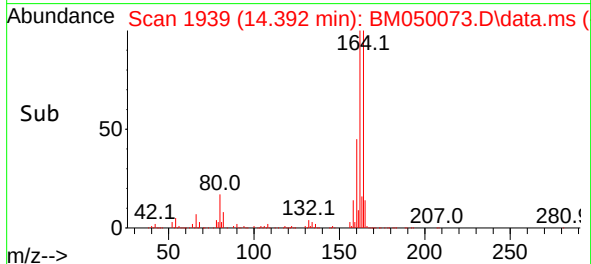
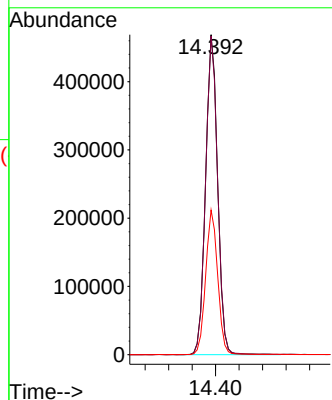
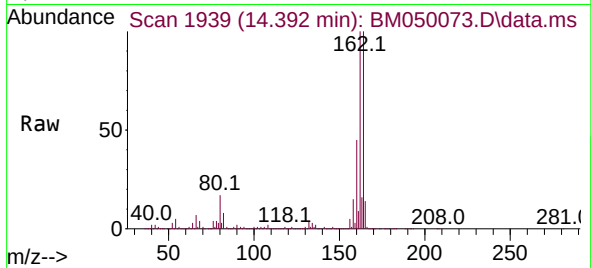




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.392 min Scan# 1939
Delta R.T. -0.018 min
Lab File: BM050073.D
Acq: 01 May 2025 20:39

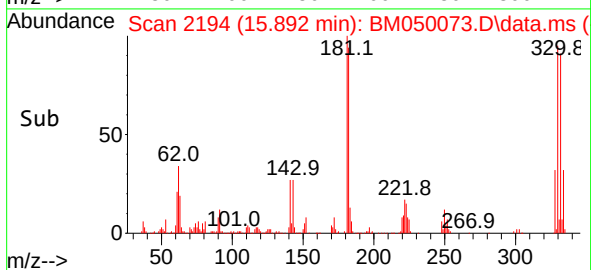
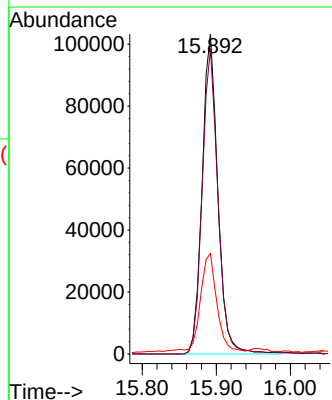
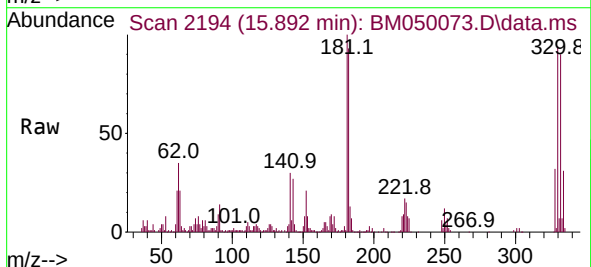
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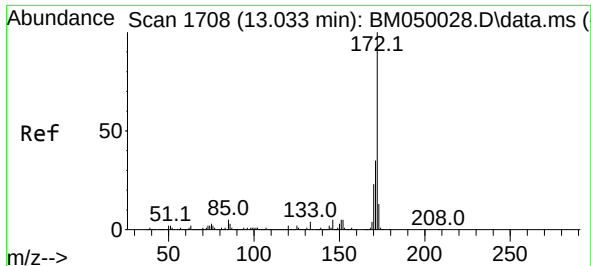
Tgt Ion:164 Resp: 663584
Ion Ratio Lower Upper
164 100
162 99.6 79.4 119.0
160 45.2 36.2 54.4



#42
2,4,6-Tribromophenol
Concen: 15.467 ng
RT: 15.892 min Scan# 2194
Delta R.T. -0.012 min
Lab File: BM050073.D
Acq: 01 May 2025 20:39

Tgt Ion:330 Resp: 151762
Ion Ratio Lower Upper
330 100
332 96.7 77.3 115.9
141 34.3 22.5 33.7#

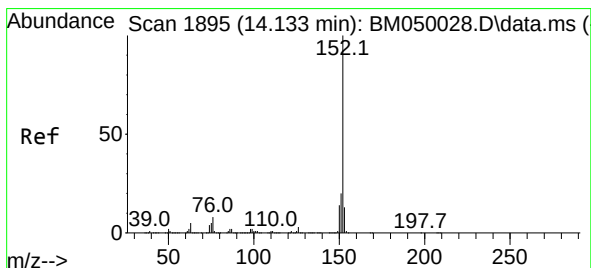
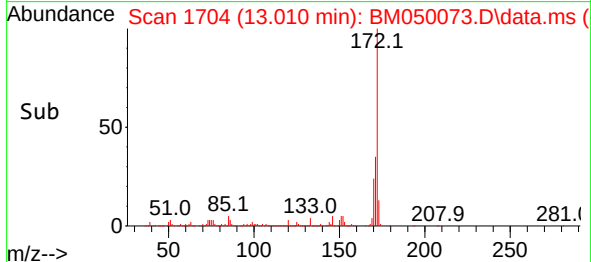
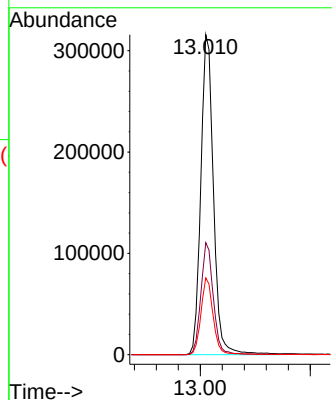
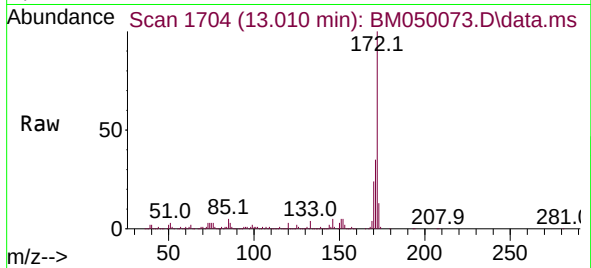




#45
2-Fluorobiphenyl
Concen: 9.018 ng
RT: 13.010 min Scan# 1704
Delta R.T. -0.023 min
Lab File: BM050073.D
Acq: 01 May 2025 20:39

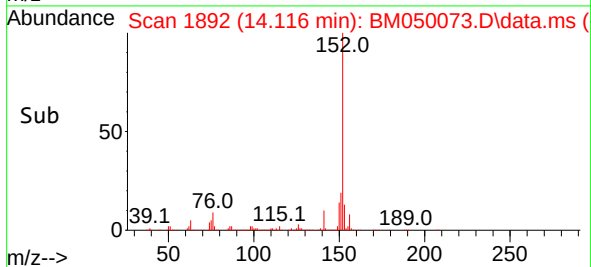
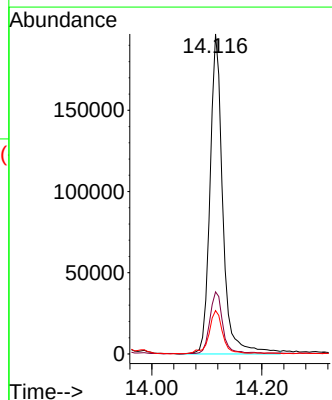
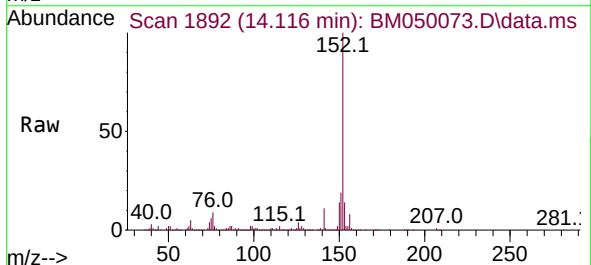
Instrument :
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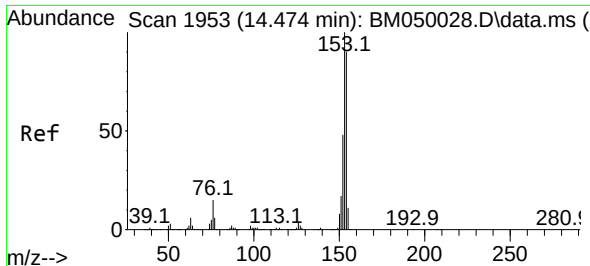
Tgt Ion:172 Resp: 505874
Ion Ratio Lower Upper
172 100
171 35.0 27.8 41.6
170 24.0 18.6 28.0



#49
Acenaphthylene
Concen: 5.169 ng
RT: 14.116 min Scan# 1892
Delta R.T. -0.018 min
Lab File: BM050073.D
Acq: 01 May 2025 20:39

Tgt Ion:152 Resp: 318404
Ion Ratio Lower Upper
152 100
151 19.4 15.8 23.8
153 13.6 10.6 15.8

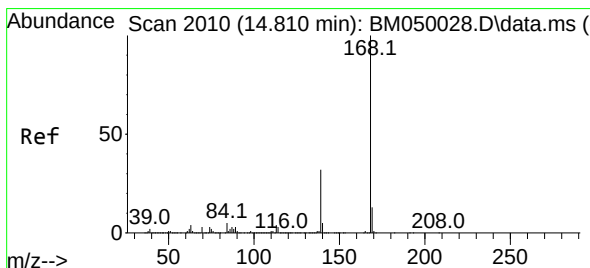
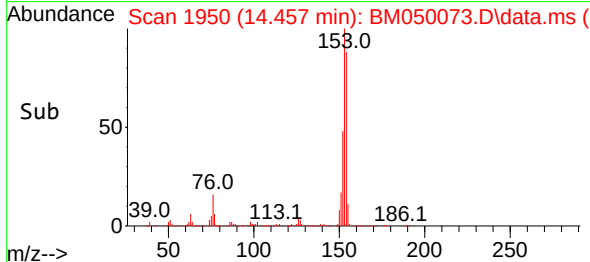
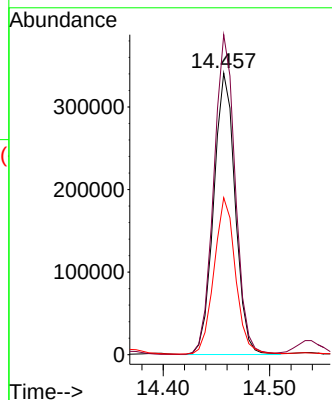
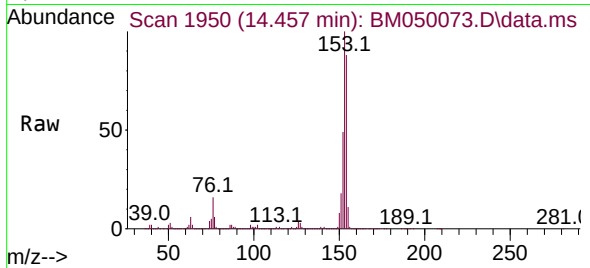




#52
Acenaphthene
Concen: 13.396 ng
RT: 14.457 min Scan# 1953
Delta R.T. -0.018 min
Lab File: BM050073.D
Acq: 01 May 2025 20:39

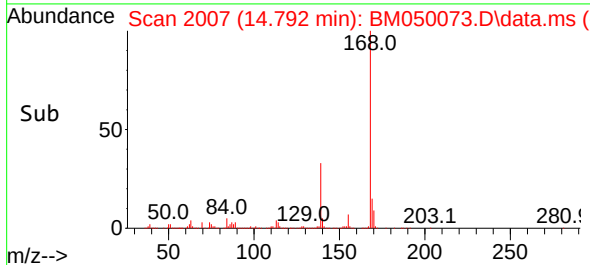
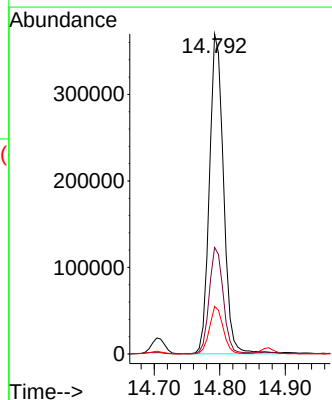
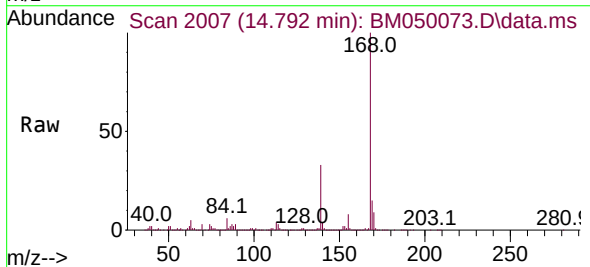
Instrument :
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ClientSampleId :
CO-8R-WC

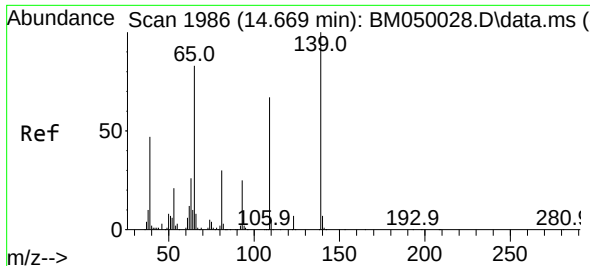
Tgt Ion:154 Resp: 477647
Ion Ratio Lower Upper
154 100
153 113.6 89.0 133.4
152 55.8 43.0 64.6



#55
Dibenzofuran
Concen: 9.316 ng
RT: 14.792 min Scan# 2007
Delta R.T. -0.018 min
Lab File: BM050073.D
Acq: 01 May 2025 20:39

Tgt Ion:168 Resp: 552659
Ion Ratio Lower Upper
168 100
139 33.3 26.1 39.1
169 14.8 10.8 16.2

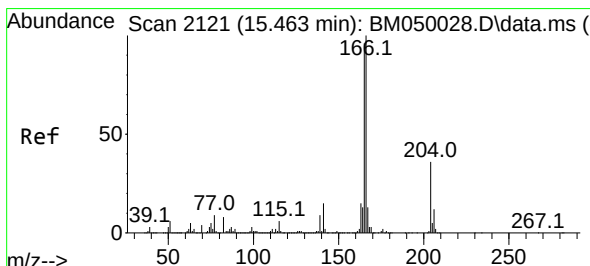
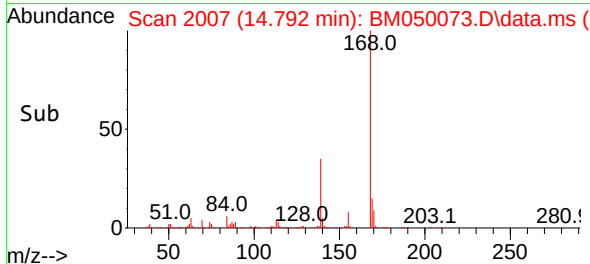
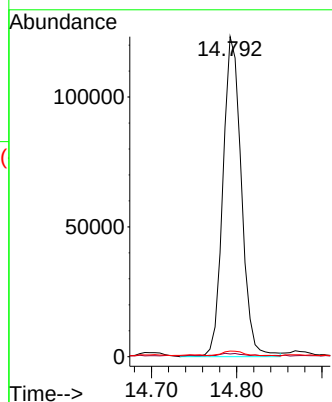
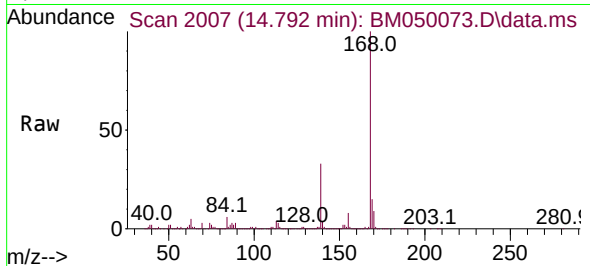




#56
4-Nitrophenol
Concen: 27.005 ng
RT: 14.792 min Scan# 20
Delta R.T. 0.123 min
Lab File: BM050073.D
Acq: 01 May 2025 20:39

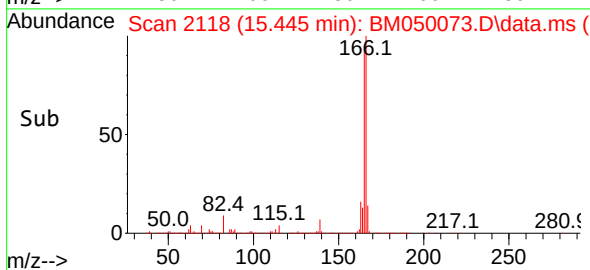
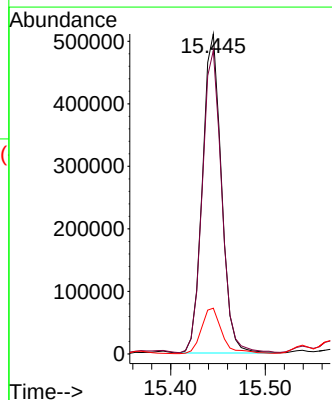
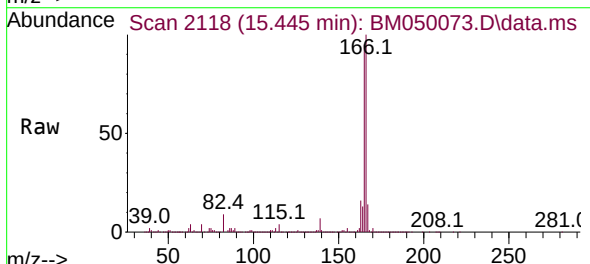
Instrument :
BNA_M
ClientSampleId :
CO-8R-WC

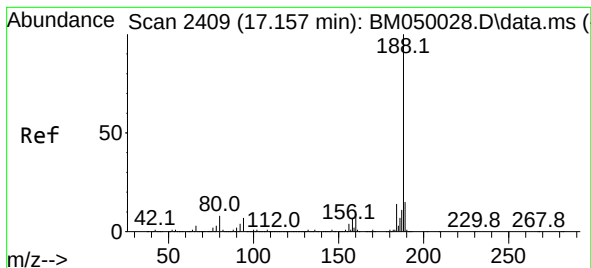
Tgt Ion:139 Resp: 185775
Ion Ratio Lower Upper
139 100
109 0.9 47.0 87.0#
65 1.7 64.3 104.3#



#58
Fluorene
Concen: 14.594 ng
RT: 15.445 min Scan# 2118
Delta R.T. -0.018 min
Lab File: BM050073.D
Acq: 01 May 2025 20:39

Tgt Ion:166 Resp: 708618
Ion Ratio Lower Upper
166 100
165 94.8 76.6 115.0
167 14.3 10.6 16.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.139 min Scan# 2406

Delta R.T. -0.018 min

Lab File: BM050073.D

Acq: 01 May 2025 20:39

Instrument :

BNA_M

ClientSampleId :

CO-8R-WC

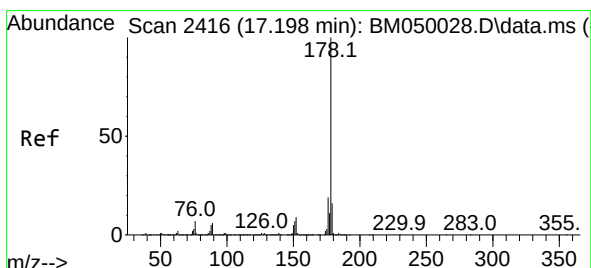
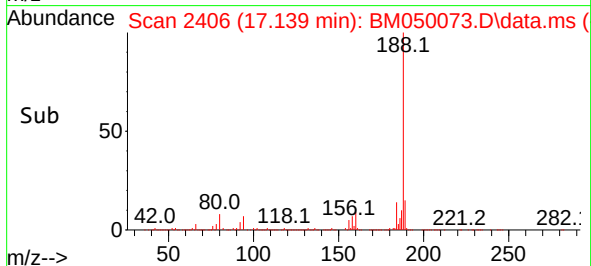
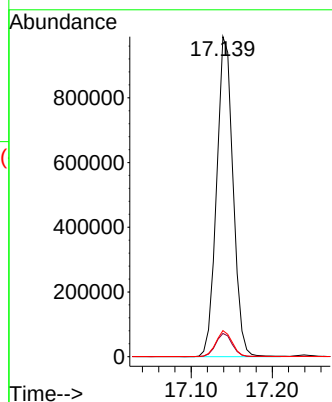
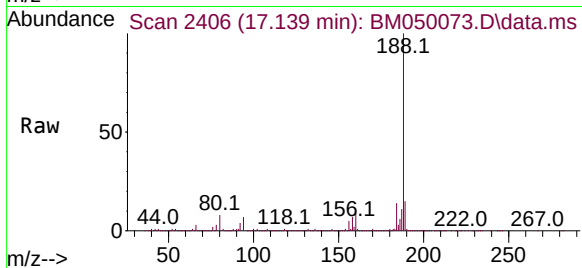
Tgt Ion:188 Resp: 1390483

Ion Ratio Lower Upper

188 100

94 7.2 5.7 8.5

80 8.2 6.2 9.4



#71

Phenanthrene

Concen: 133.799 ng

RT: 17.186 min Scan# 2414

Delta R.T. -0.012 min

Lab File: BM050073.D

Acq: 01 May 2025 20:39

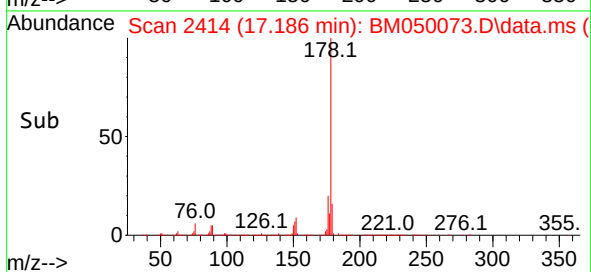
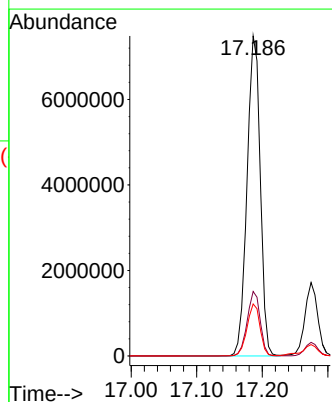
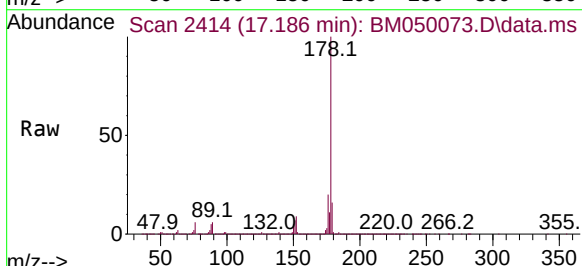
Tgt Ion:178 Resp:10493173

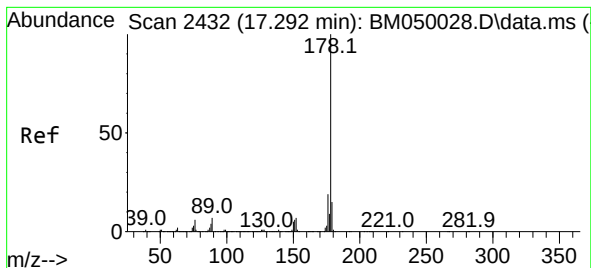
Ion Ratio Lower Upper

178 100

176 20.1 15.3 22.9

179 16.2 12.4 18.6





#72

Anthracene

Concen: 28.729 ng

RT: 17.274 min Scan# 24

Delta R.T. -0.018 min

Lab File: BM050073.D

Acq: 01 May 2025 20:39

Instrument :

BNA_M

ClientSampleId :

CO-8R-WC

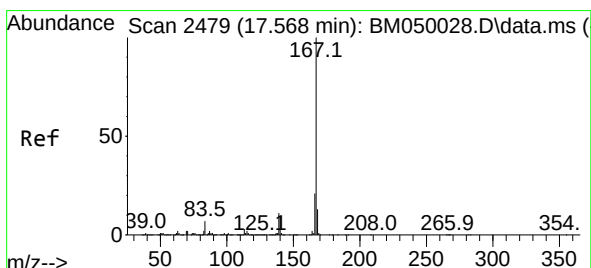
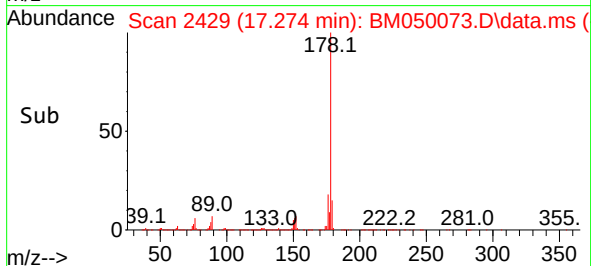
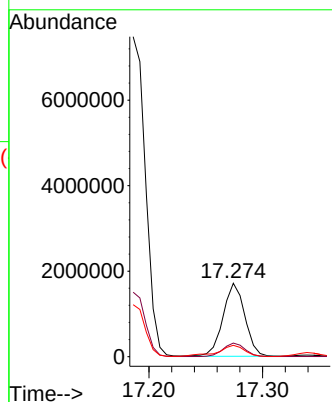
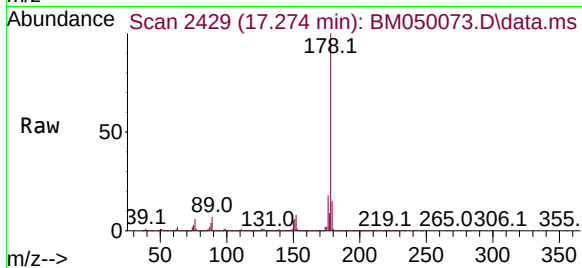
Tgt Ion:178 Resp: 2280071

Ion Ratio Lower Upper

178 100

176 18.5 15.0 22.4

179 15.4 12.2 18.4



#73

Carbazole

Concen: 8.960 ng

RT: 17.551 min Scan# 2476

Delta R.T. -0.018 min

Lab File: BM050073.D

Acq: 01 May 2025 20:39

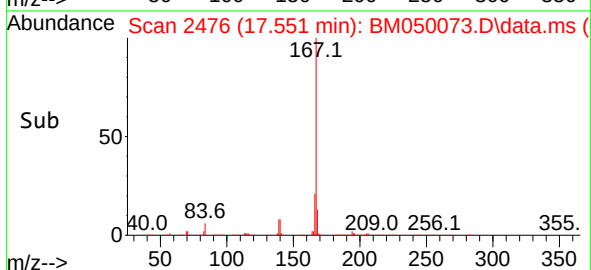
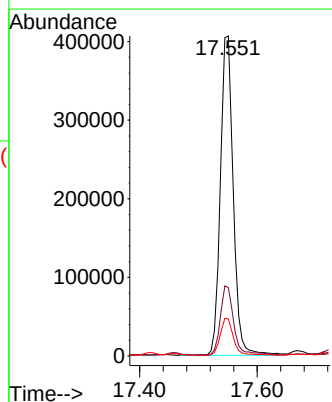
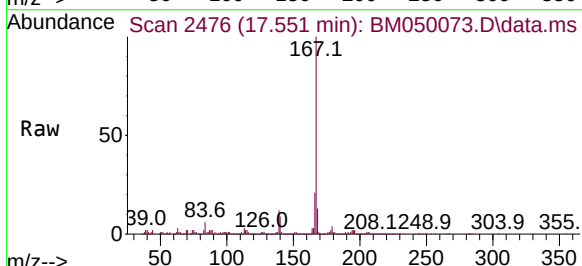
Tgt Ion:167 Resp: 617081

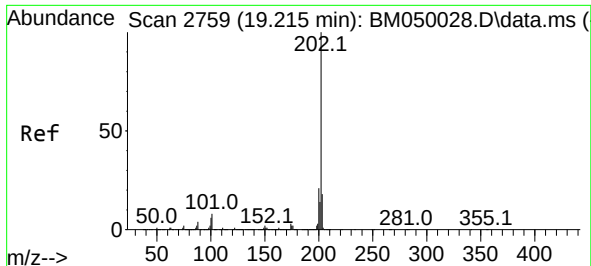
Ion Ratio Lower Upper

167 100

166 21.4 17.2 25.8

139 11.6 9.0 13.6

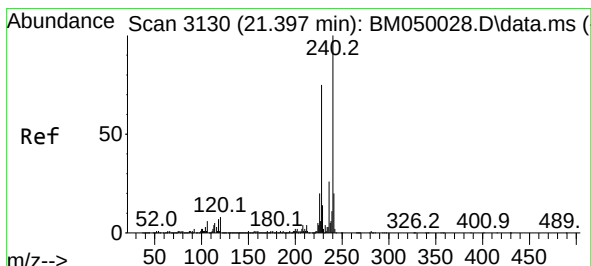
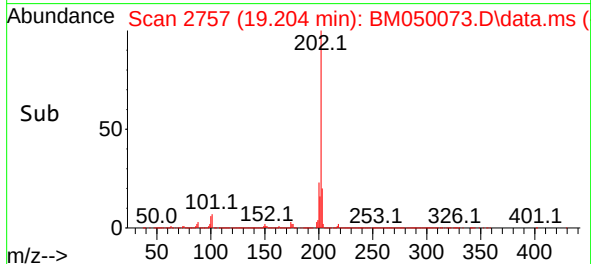
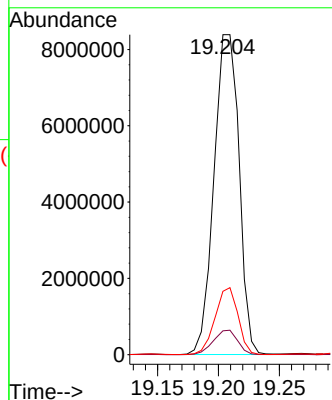
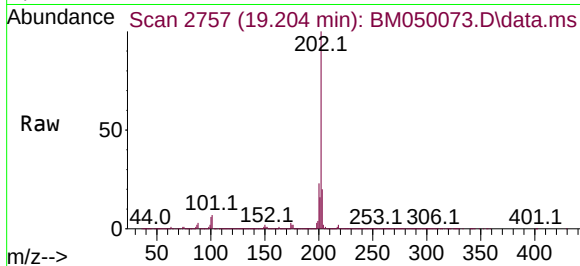




#75
Fluoranthene
Concen: 130.672 ng
RT: 19.204 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM050073.D
Acq: 01 May 2025 20:39

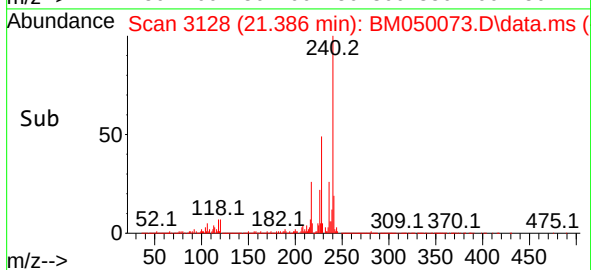
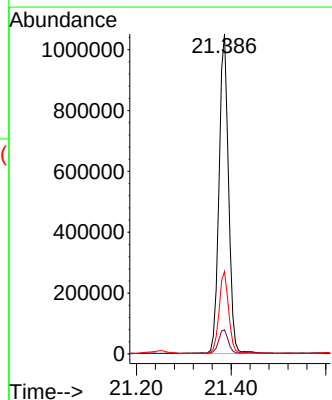
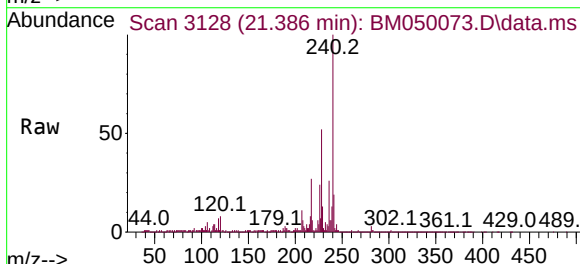
Instrument :
BNA_M
ClientSampleId :
CO-8R-WC

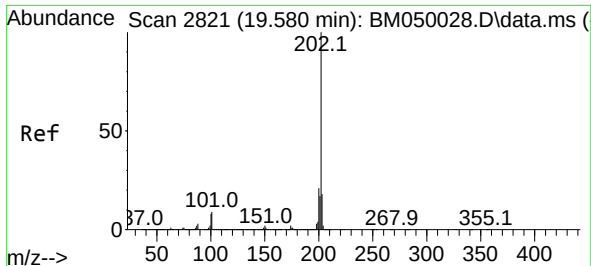
Tgt Ion:202 Resp:12031713
Ion Ratio Lower Upper
202 100
101 7.4 0.0 28.0
203 19.8 0.0 37.7



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.386 min Scan# 3128
Delta R.T. -0.011 min
Lab File: BM050073.D
Acq: 01 May 2025 20:39

Tgt Ion:240 Resp: 1453480
Ion Ratio Lower Upper
240 100
120 7.5 6.5 9.7
236 25.8 20.9 31.3

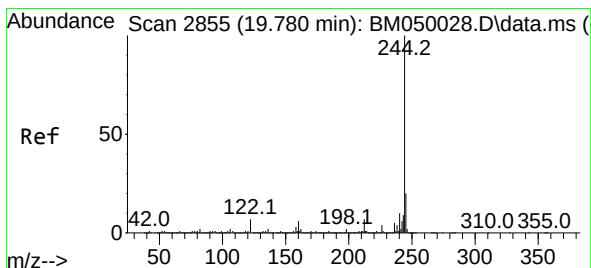
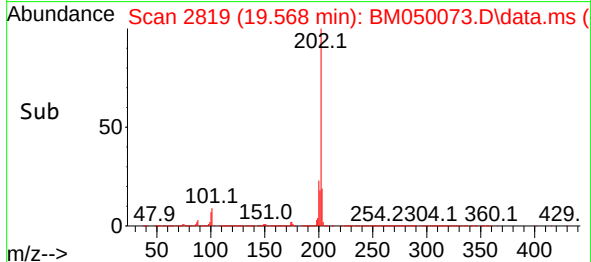
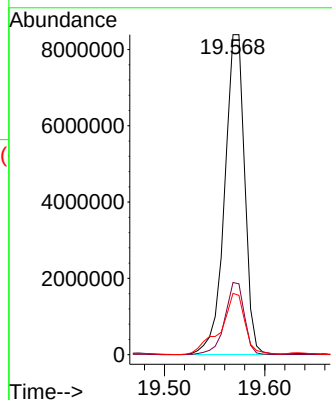
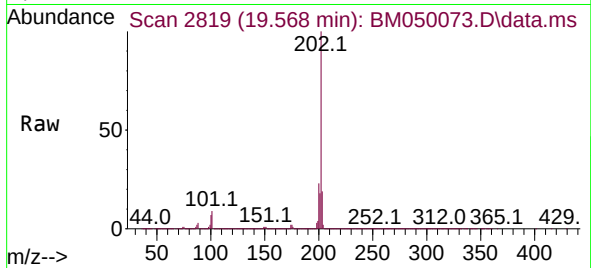




#78
 Pyrene
 Concen: 113.837 ng
 RT: 19.568 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BM050073.D
 Acq: 01 May 2025 20:39

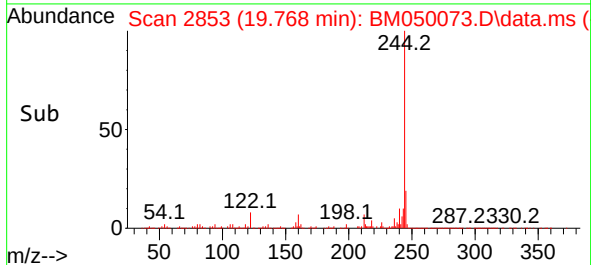
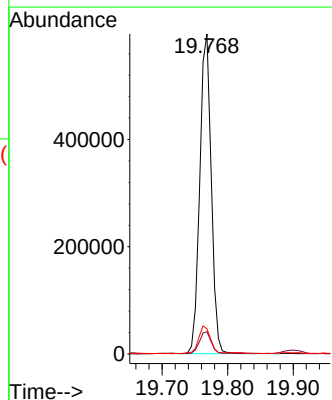
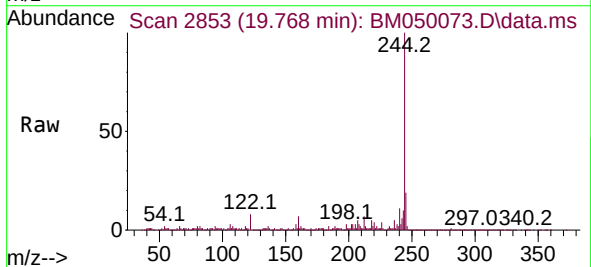
Instrument :
 BNA_M
 ClientSampleId :
 CO-8R-WC

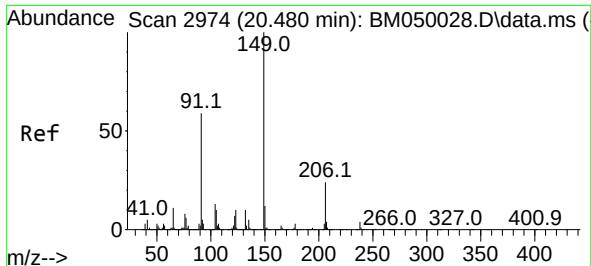
Tgt Ion:202 Resp:11619150
 Ion Ratio Lower Upper
 202 100
 200 22.6 16.7 25.1
 203 19.1 14.1 21.1



#79
 Terphenyl-d14
 Concen: 7.401 ng
 RT: 19.768 min Scan# 2853
 Delta R.T. -0.012 min
 Lab File: BM050073.D
 Acq: 01 May 2025 20:39

Tgt Ion:244 Resp: 726960
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.6 8.4
 122 7.8 5.6 8.4

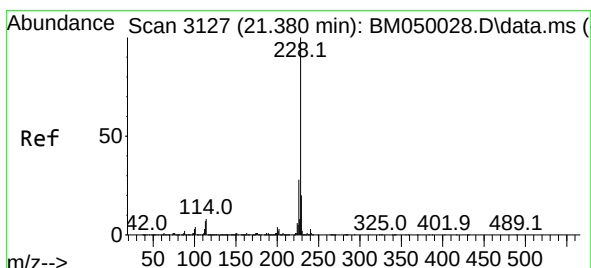
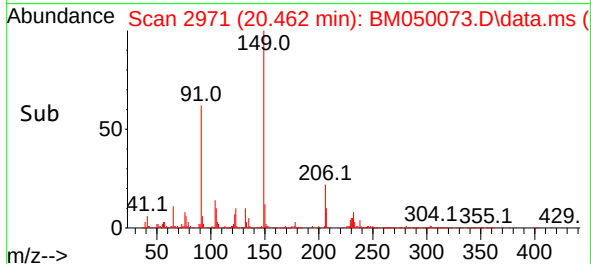
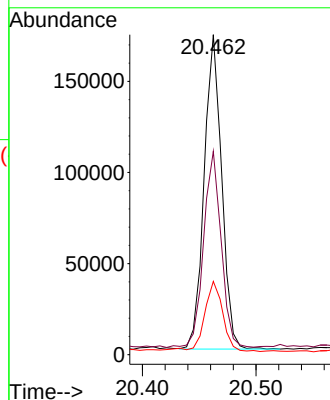
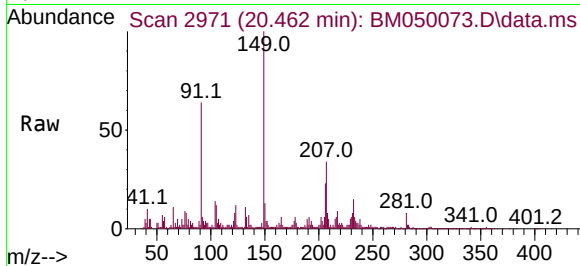




#80
Butylbenzylphthalate
Concen: 4.826 ng
RT: 20.462 min Scan# 2974
Delta R.T. -0.018 min
Lab File: BM050073.D
Acq: 01 May 2025 20:39

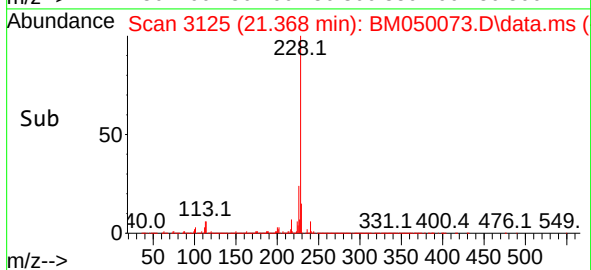
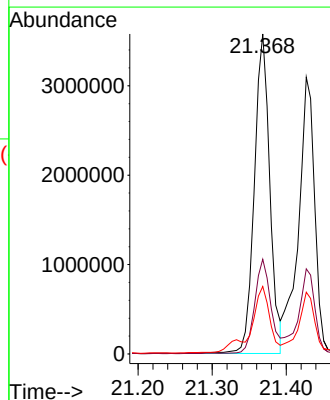
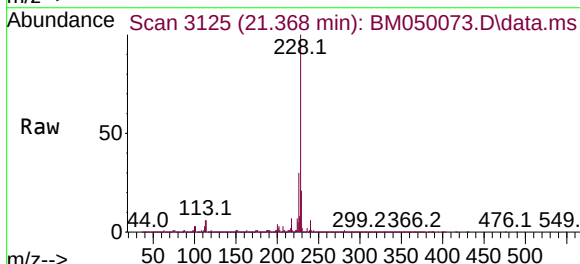
Instrument :
BNA_M
ClientSampleId :
CO-8R-WC

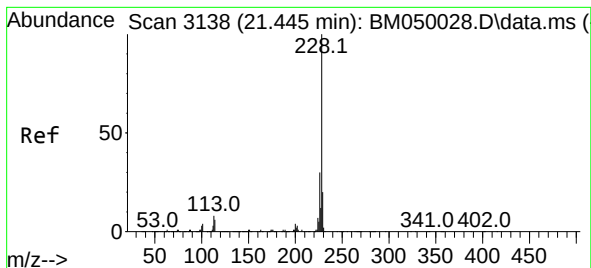
Tgt Ion:149 Resp: 184478
Ion Ratio Lower Upper
149 100
91 63.6 47.4 71.2
206 22.9 19.4 29.0



#81
Benzo(a)anthracene
Concen: 51.919 ng
RT: 21.368 min Scan# 3125
Delta R.T. -0.012 min
Lab File: BM050073.D
Acq: 01 May 2025 20:39

Tgt Ion:228 Resp: 5196628
Ion Ratio Lower Upper
228 100
226 29.6 22.1 33.1
229 21.1 15.7 23.5





#83

Chrysene

Concen: 50.939 ng

RT: 21.427 min Scan# 31

Delta R.T. -0.018 min

Lab File: BM050073.D

Acq: 01 May 2025 20:39

Instrument :

BNA_M

ClientSampleId :

CO-8R-WC

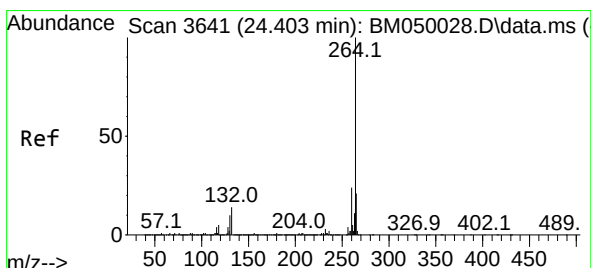
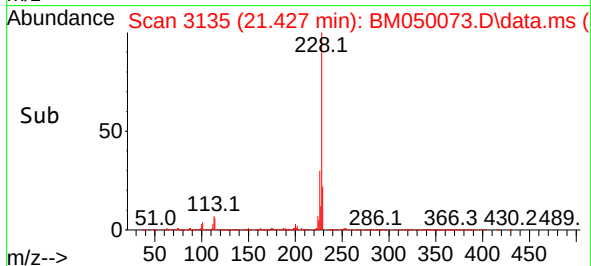
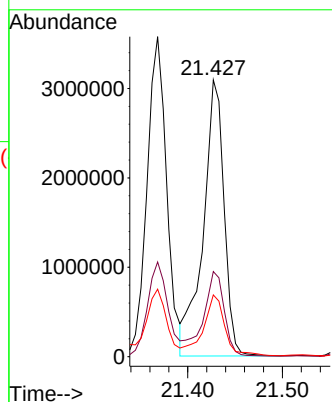
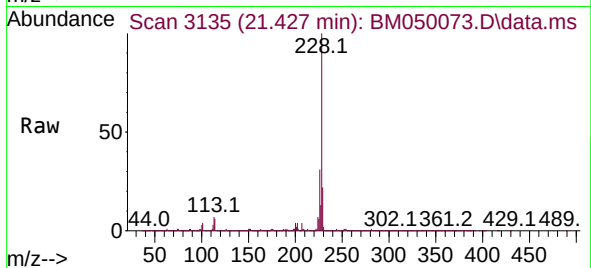
Tgt Ion:228 Resp: 4718791

Ion Ratio Lower Upper

228 100

226 30.8 24.2 36.2

229 22.3 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.380 min Scan# 3637

Delta R.T. -0.023 min

Lab File: BM050073.D

Acq: 01 May 2025 20:39

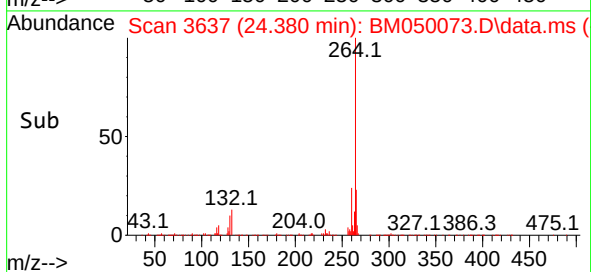
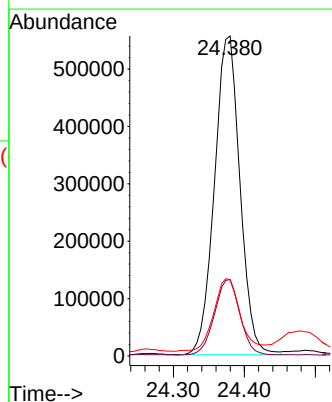
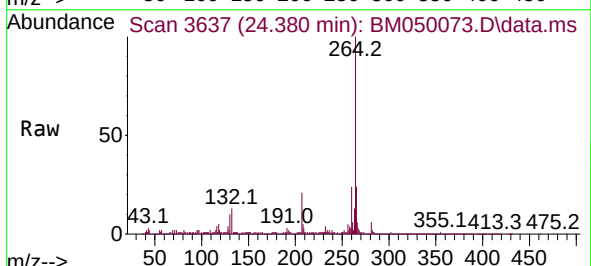
Tgt Ion:264 Resp: 1382749

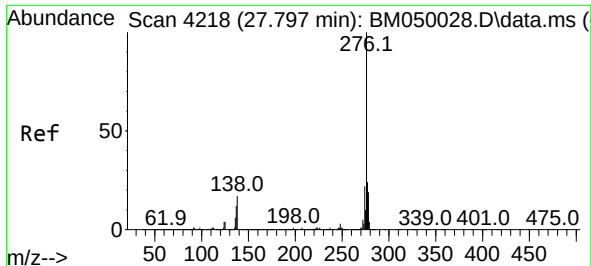
Ion Ratio Lower Upper

264 100

260 23.9 18.8 28.2

265 23.8 17.0 25.4

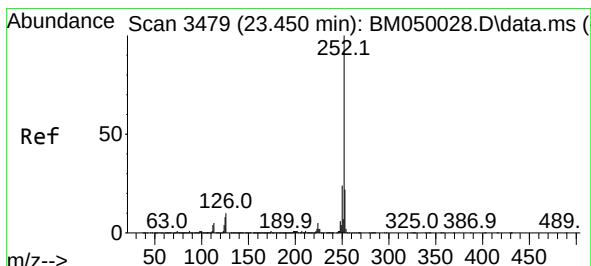
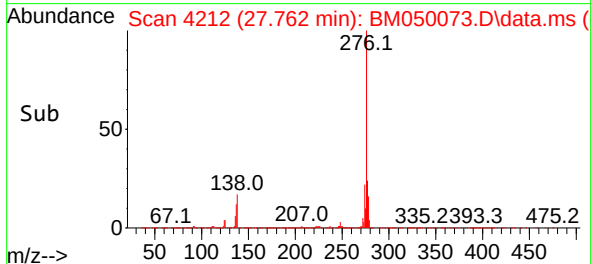
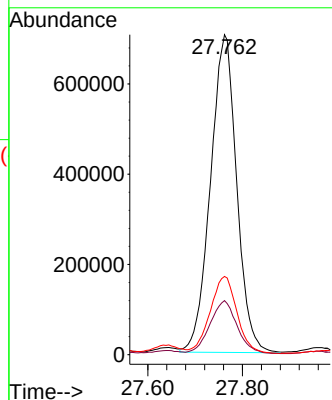
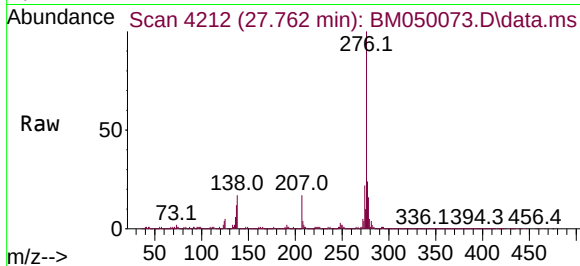




#87
Indeno(1,2,3-cd)pyrene
Concen: 26.267 ng
RT: 27.762 min Scan# 41
Delta R.T. -0.035 min
Lab File: BM050073.D
Acq: 01 May 2025 20:39

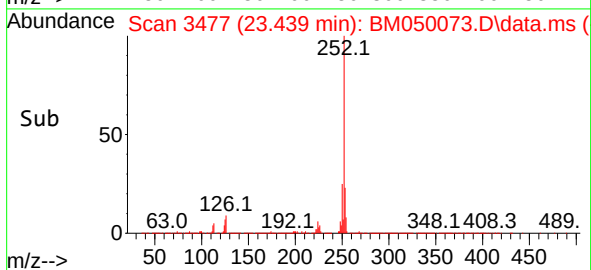
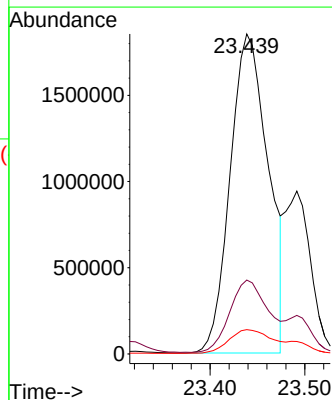
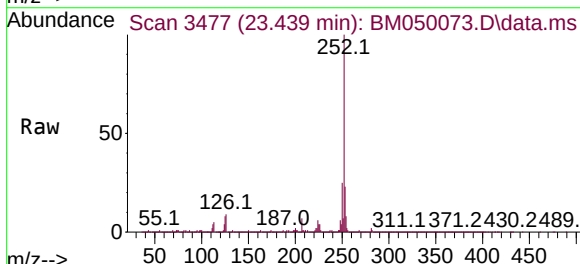
Instrument :
BNA_M
ClientSampleId :
CO-8R-WC

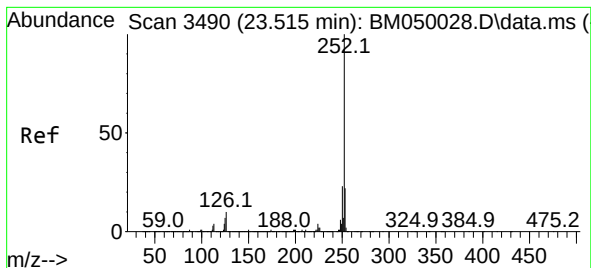
Tgt Ion:276 Resp: 2706389
Ion Ratio Lower Upper
276 100
138 17.3 16.4 24.6
277 24.7 19.8 29.8



#88
Benzo(b)fluoranthene
Concen: 57.584 ng
RT: 23.439 min Scan# 3477
Delta R.T. -0.012 min
Lab File: BM050073.D
Acq: 01 May 2025 20:39

Tgt Ion:252 Resp: 5178205
Ion Ratio Lower Upper
252 100
253 23.1 17.7 26.5
125 7.6 6.1 9.1





#89

Benzo(k)fluoranthene

Concen: 56.928 ng

RT: 23.439 min Scan# 34

Delta R.T. -0.076 min

Lab File: BM050073.D

Acq: 01 May 2025 20:39

Instrument :

BNA_M

ClientSampleId :

CO-8R-WC

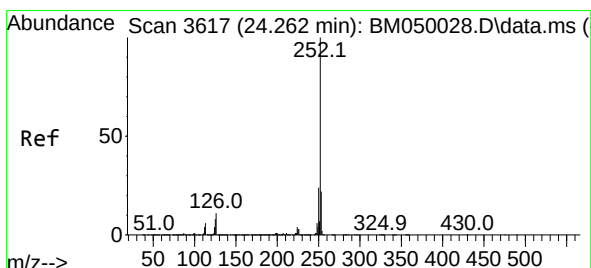
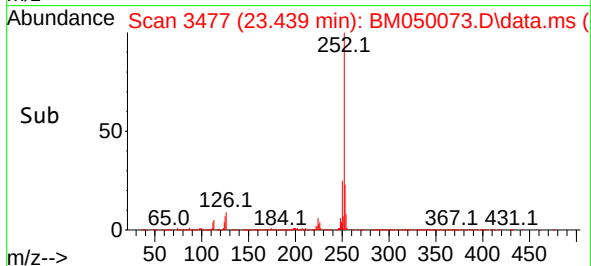
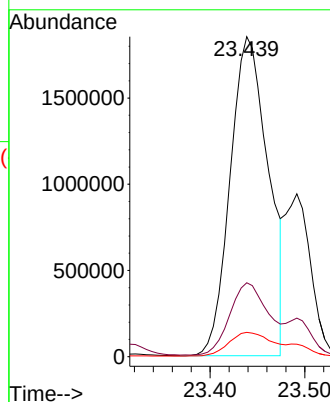
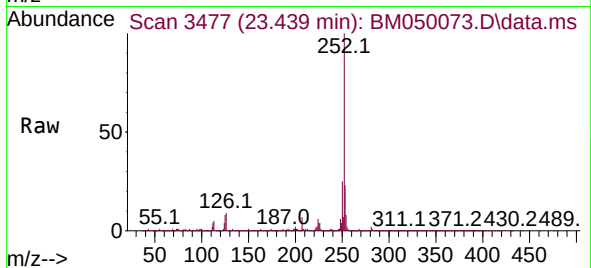
Tgt Ion:252 Resp: 5178205

Ion Ratio Lower Upper

252 100

253 23.1 17.4 26.2

125 7.6 5.8 8.8



#90

Benzo(a)pyrene

Concen: 49.830 ng

RT: 24.239 min Scan# 3613

Delta R.T. -0.023 min

Lab File: BM050073.D

Acq: 01 May 2025 20:39

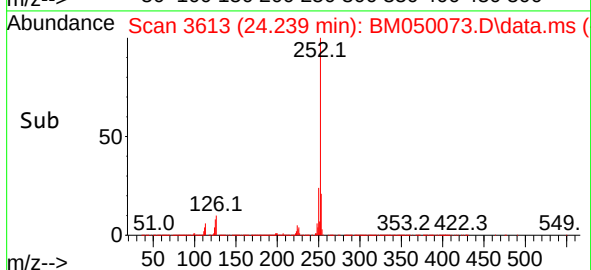
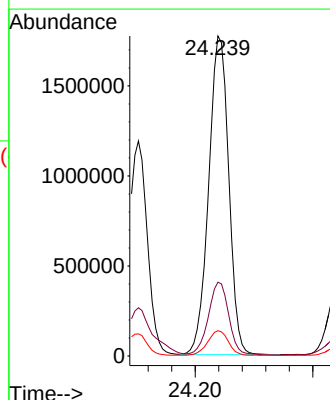
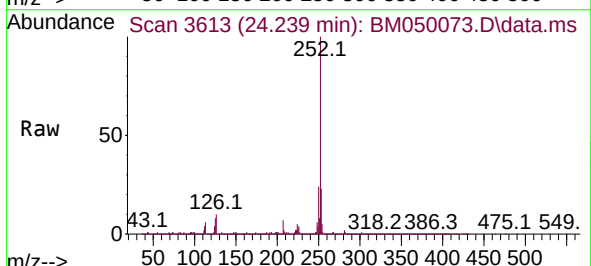
Tgt Ion:252 Resp: 4196882

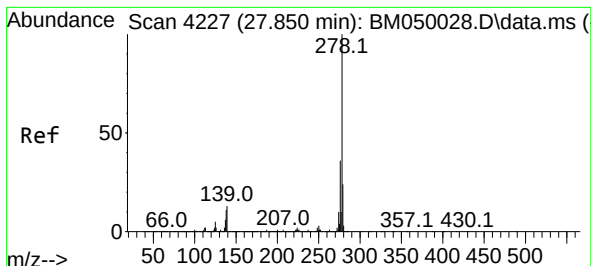
Ion Ratio Lower Upper

252 100

253 23.1 17.4 26.0

125 7.9 6.6 9.8





#91

Dibenzo(a,h)anthracene

Concen: 8.172 ng

RT: 27.785 min Scan# 41

Delta R.T. -0.065 min

Lab File: BM050073.D

Acq: 01 May 2025 20:39

Instrument :

BNA_M

ClientSampleId :

CO-8R-WC

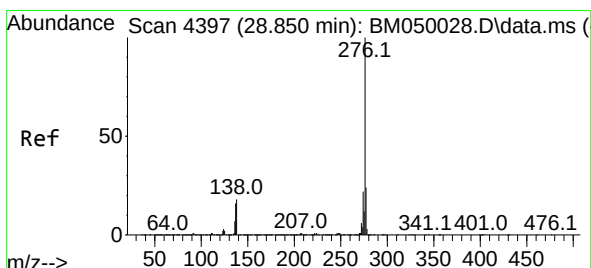
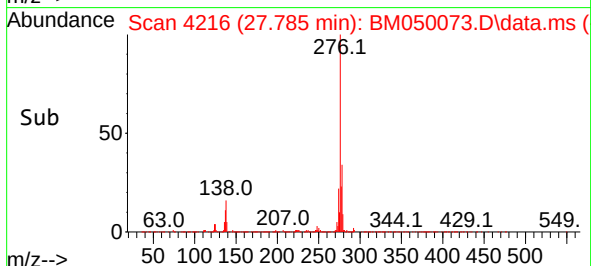
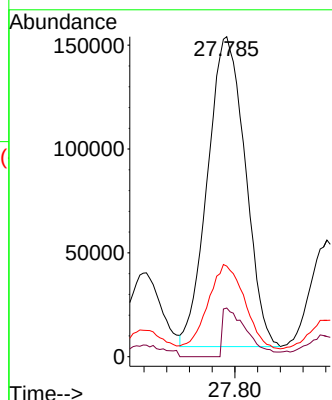
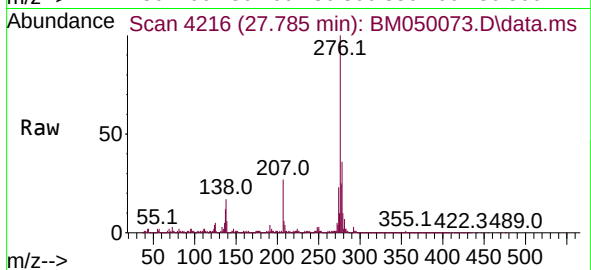
Tgt Ion:278 Resp: 686323

Ion Ratio Lower Upper

278 100

139 15.2 10.5 15.7

279 28.3 19.4 29.0



#92

Benzo(g,h,i)perylene

Concen: 33.055 ng

RT: 28.815 min Scan# 4391

Delta R.T. -0.035 min

Lab File: BM050073.D

Acq: 01 May 2025 20:39

Tgt Ion:276 Resp: 2657877

Ion Ratio Lower Upper

276 100

277 23.7 19.1 28.7

138 17.8 14.3 21.5

