

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041825\
 Data File : BM049974.D
 Acq On : 18 Apr 2025 20:22
 Operator : RC/JU
 Sample : Q1832-37 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PL-714-COMP-07

Quant Time: Apr 18 23:11:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 09 04:00:55 2025
 Response via : Initial Calibration

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

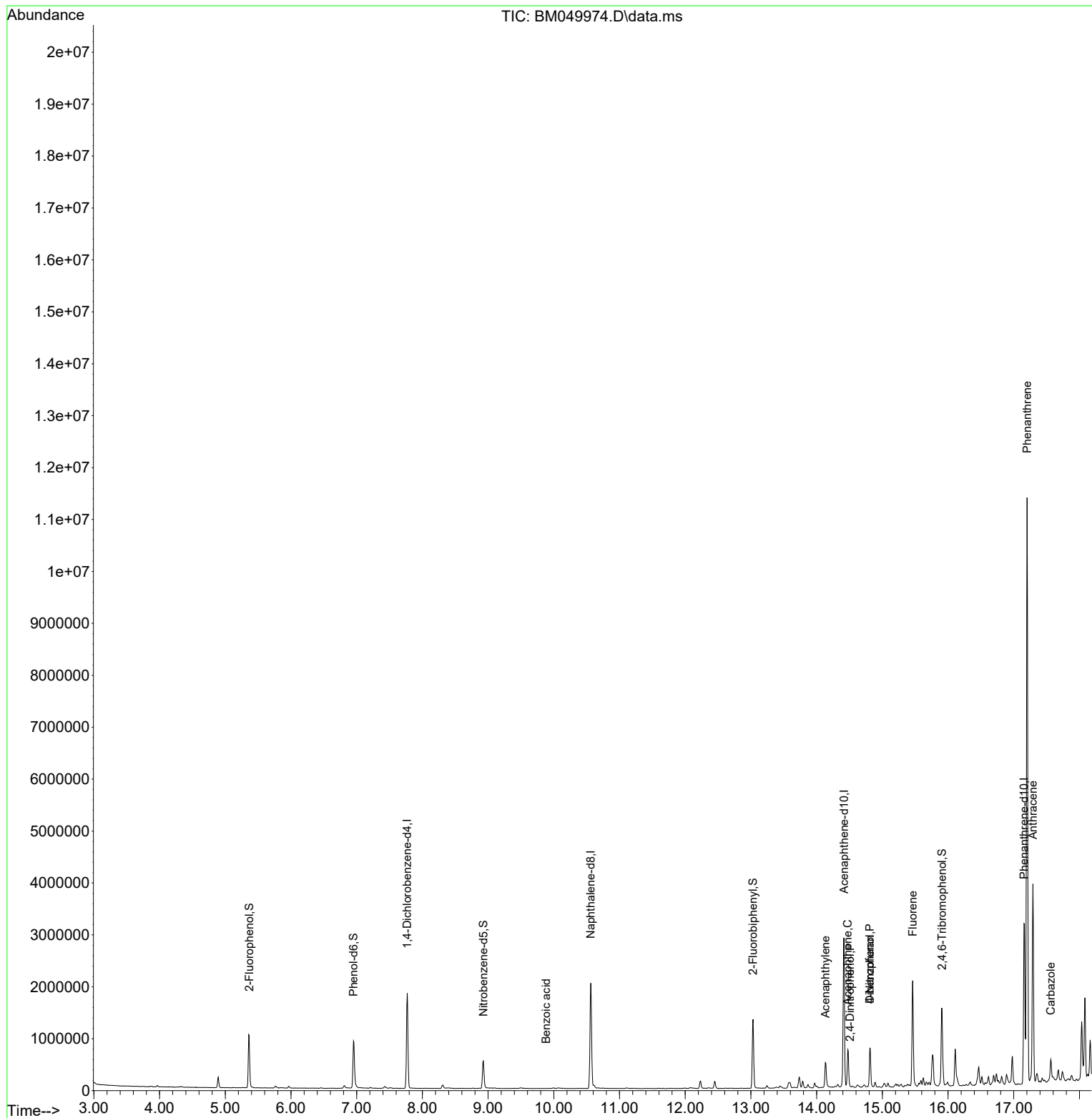
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.769	152	545345	20.000	ng	-0.01
21) Naphthalene-d8	10.563	136	1771085	20.000	ng	-0.01
39) Acenaphthene-d10	14.416	164	1056809	20.000	ng	0.00
64) Phenanthrene-d10	17.157	188	1982779	20.000	ng	0.00
76) Chrysene-d12	21.403	240	1918056	20.000	ng	0.00
86) Perylene-d12	24.409	264	1904503	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.363	112	485669	15.123	ng	0.00
7) Phenol-d6	6.951	99	591964	14.815	ng	0.00
23) Nitrobenzene-d5	8.928	82	330165	10.381	ng	0.00
42) 2,4,6-Tribromophenol	15.910	330	235153	15.298	ng	0.00
45) 2-Fluorobiphenyl	13.033	172	764751	9.813	ng	-0.01
79) Terphenyl-d14	19.780	244	971133	9.489	ng	-0.01
Target Compounds						Qvalue
32) Benzoic acid	9.881	122	802	8.567	ng	# 6
49) Acenaphthylene	14.133	152	429243	4.772	ng	99
52) Acenaphthene	14.474	154	267496	4.676	ng	99
54) 2,4-Dinitrophenol	14.510	184	53	7.229	ng	# 1
55) Dibenzofuran	14.810	168	513818	5.372	ng	99
56) 4-Nitrophenol	14.810	139	167564	12.455	ng	# 13
58) Fluorene	15.463	166	920336	12.106	ng	99
71) Phenanthrene	17.204	178	6951994	63.954	ng	100
72) Anthracene	17.292	178	2448032	22.852	ng	100
73) Carbazole	17.562	167	296212	2.936	ng	99
75) Fluoranthene	19.221	202	10196518	76.289	ng	98
78) Pyrene	19.586	202	7882174	59.628	ng	99
81) Benzo(a)anthracene	21.386	228	4255779	33.386	ng	96
83) Chrysene	21.444	228	3308130	27.297	ng	97
87) Indeno(1,2,3-cd)pyrene	27.797	276	1734817	12.220	ng	96
88) Benzo(b)fluoranthene	23.462	252	3946658	32.447	ng	98
89) Benzo(k)fluoranthene	23.462	252	3946658	33.483	ng	98
90) Benzo(a)pyrene	24.268	252	2952619	27.625	ng	99
91) Dibenzo(a,h)anthracene	27.832	278	475734	4.068	ng	# 92
92) Benzo(g,h,i)perylene	28.850	276	1572216	13.158	ng	98

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

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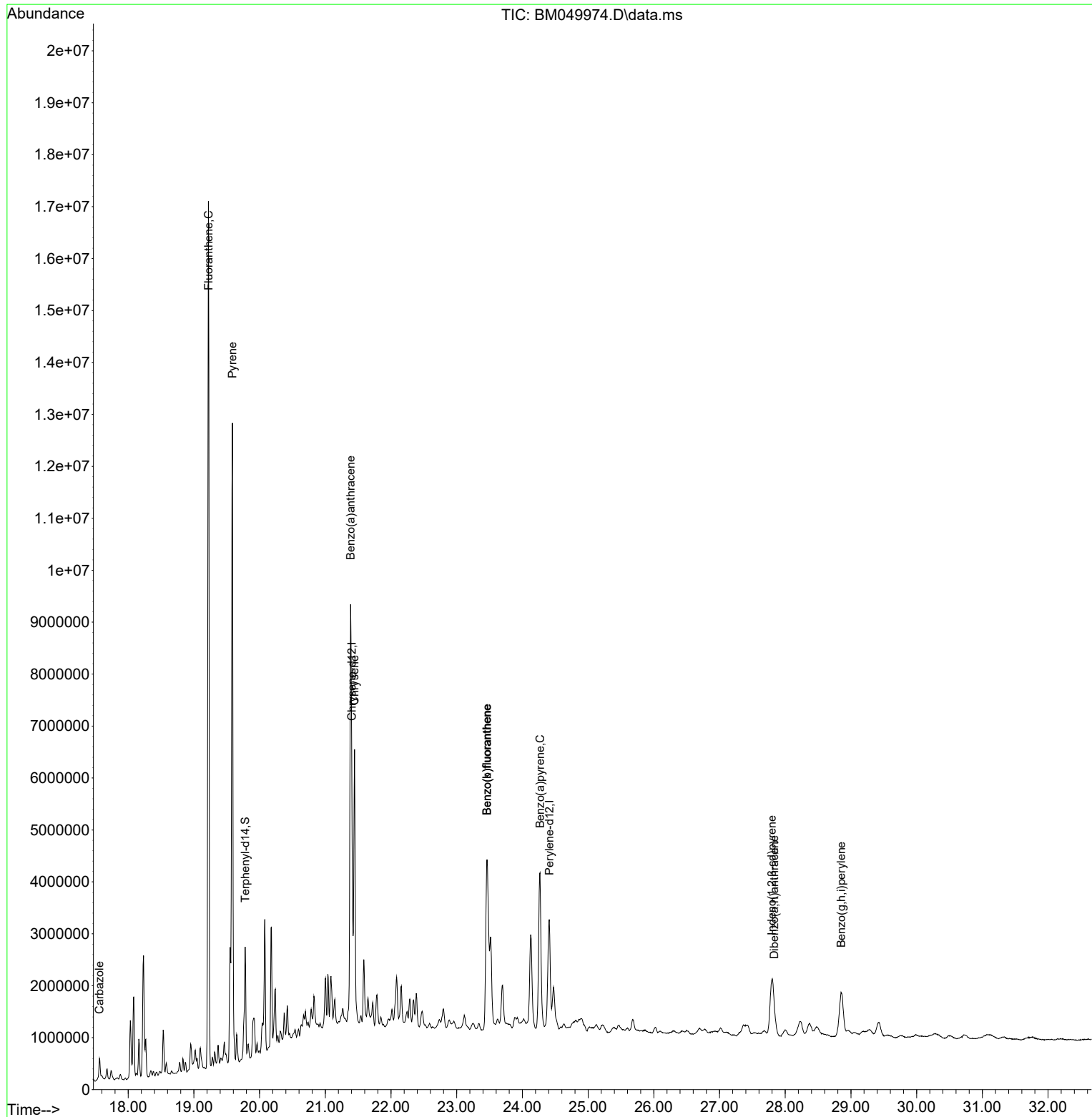
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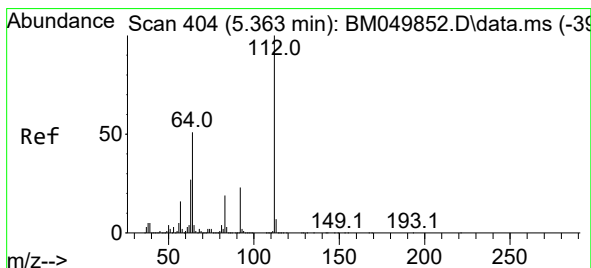
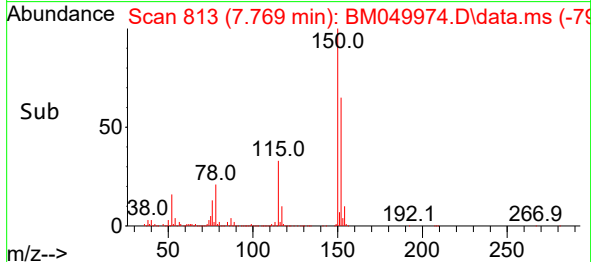
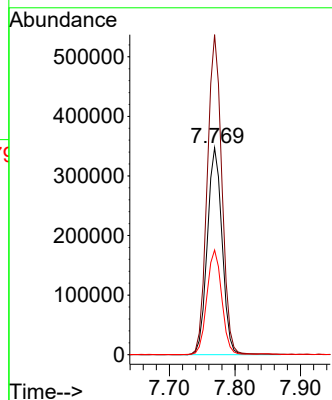
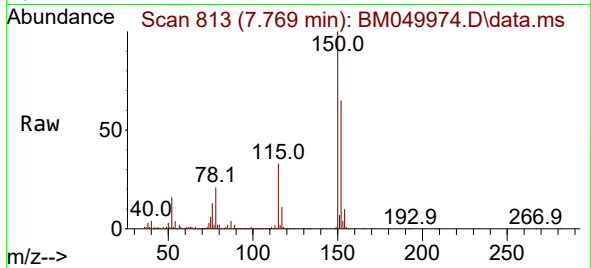




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 815
Delta R.T. -0.012 min
Lab File: BM049974.D
Acq: 18 Apr 2025 20:22

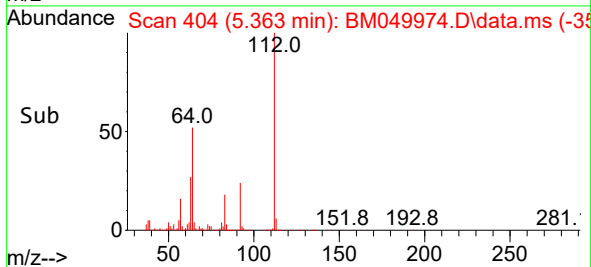
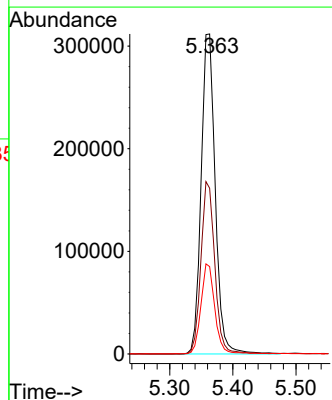
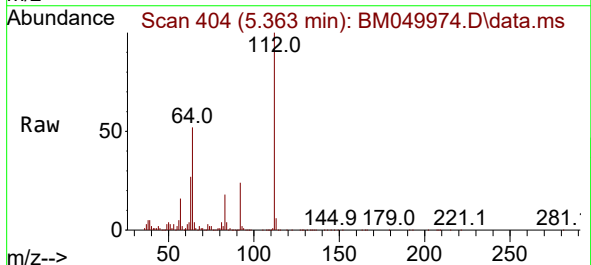
Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-07

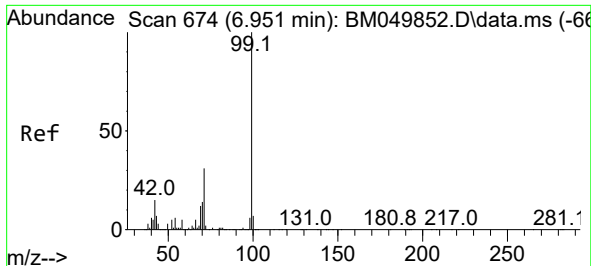
Tgt Ion:152 Resp: 545345
Ion Ratio Lower Upper
152 100
150 154.7 124.3 186.5
115 50.6 41.1 61.7



#5
2-Fluorophenol
Concen: 15.123 ng
RT: 5.363 min Scan# 404
Delta R.T. -0.000 min
Lab File: BM049974.D
Acq: 18 Apr 2025 20:22

Tgt Ion:112 Resp: 485669
Ion Ratio Lower Upper
112 100
64 51.8 41.0 61.6
63 27.3 21.5 32.3

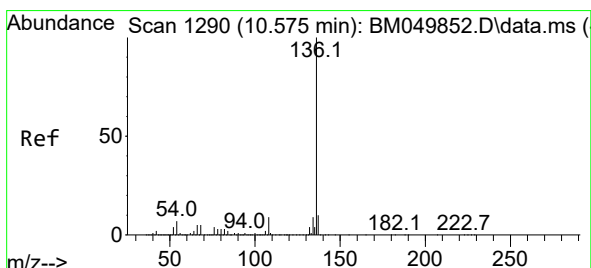
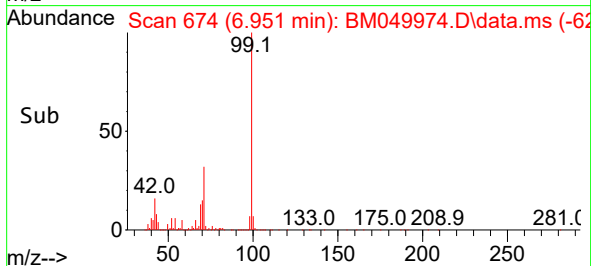
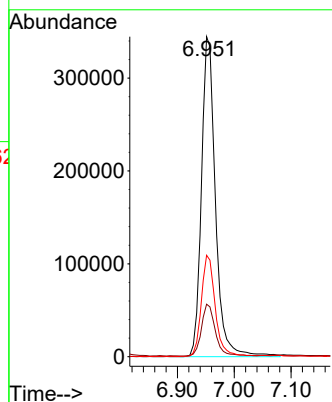
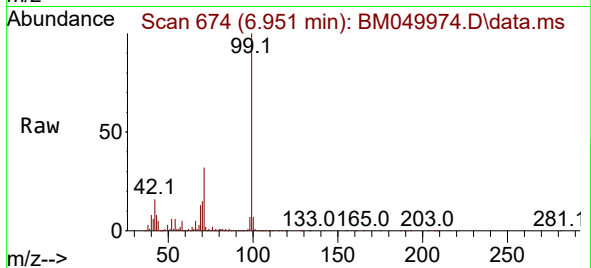




#7
Phenol-d6
Concen: 14.815 ng
RT: 6.951 min Scan# 61
Delta R.T. -0.000 min
Lab File: BM049974.D
Acq: 18 Apr 2025 20:22

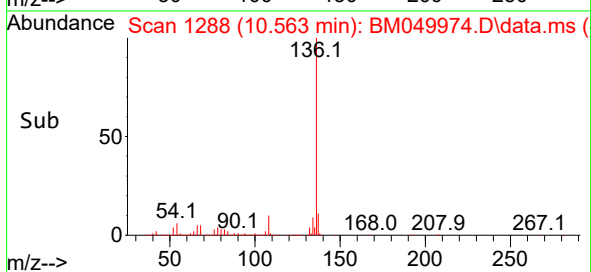
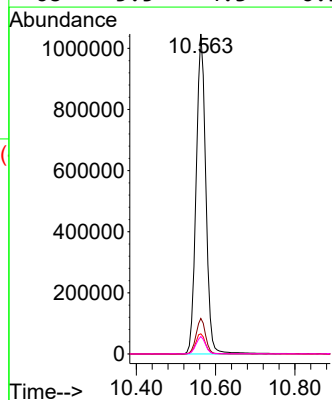
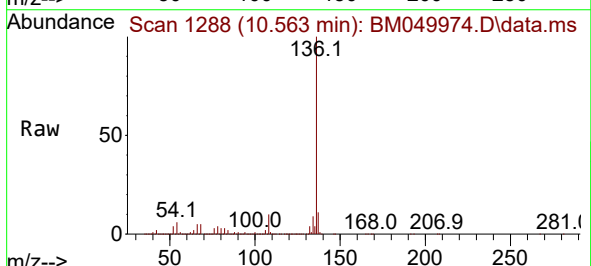
Instrument :
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ClientSampleId :
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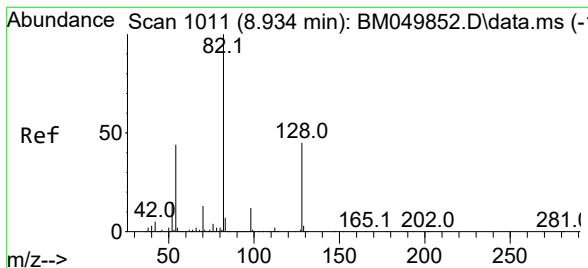
Tgt Ion: 99 Resp: 591964
Ion Ratio Lower Upper
99 100
42 16.4 12.1 18.1
71 31.7 24.9 37.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.563 min Scan# 1288
Delta R.T. -0.012 min
Lab File: BM049974.D
Acq: 18 Apr 2025 20:22

Tgt Ion: 136 Resp: 1771085
Ion Ratio Lower Upper
136 100
137 11.1 8.4 12.6
54 6.3 5.3 7.9
68 5.5 4.3 6.5

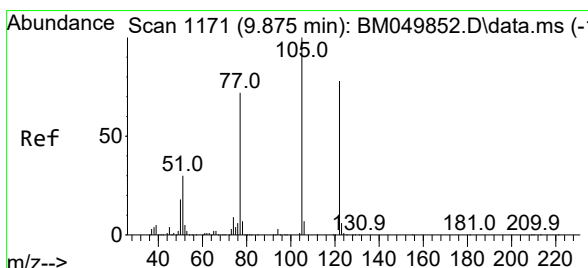
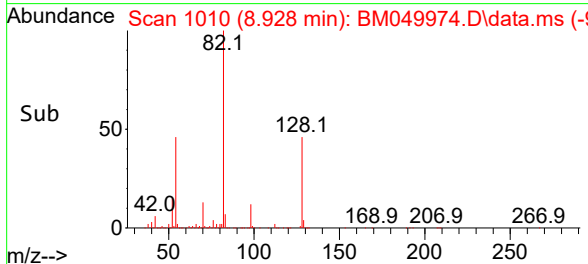
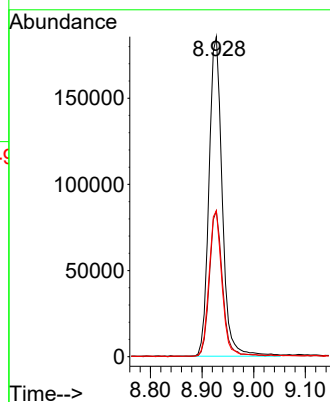
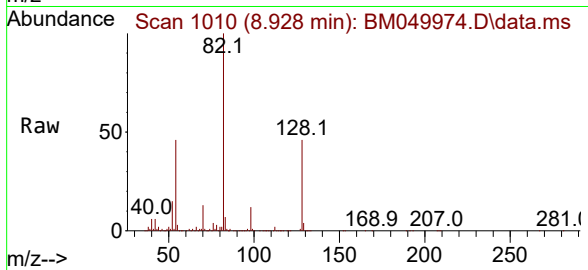




#23
Nitrobenzene-d5
Concen: 10.381 ng
RT: 8.928 min Scan# 1010
Delta R.T. -0.006 min
Lab File: BM049974.D
Acq: 18 Apr 2025 20:22

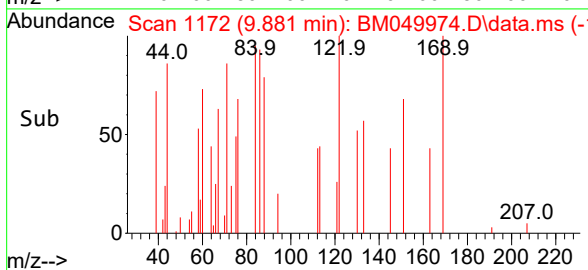
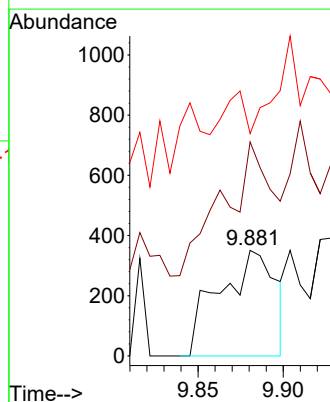
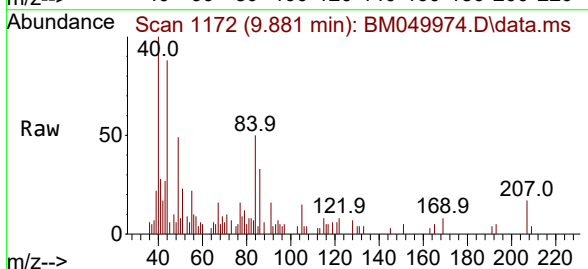
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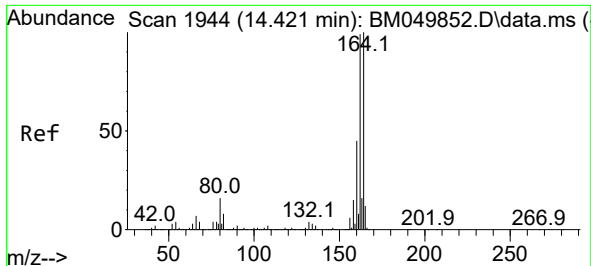
Tgt Ion: 82 Resp: 330165
Ion Ratio Lower Upper
82 100
128 45.6 36.2 54.2
54 45.7 35.0 52.6



#32
Benzoic acid
Concen: 8.567 ng
RT: 9.881 min Scan# 1172
Delta R.T. 0.006 min
Lab File: BM049974.D
Acq: 18 Apr 2025 20:22

Tgt Ion: 122 Resp: 802
Ion Ratio Lower Upper
122 100
105 202.6 103.8 143.8#
77 210.5 70.7 110.7#

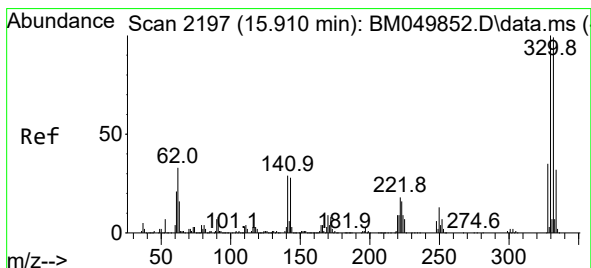
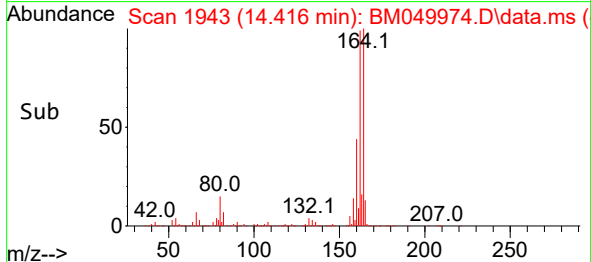
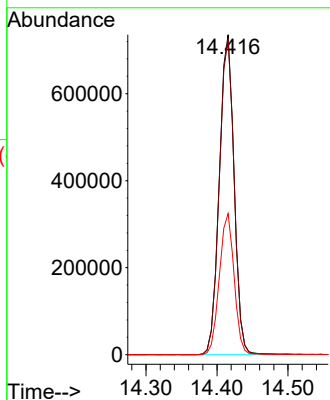
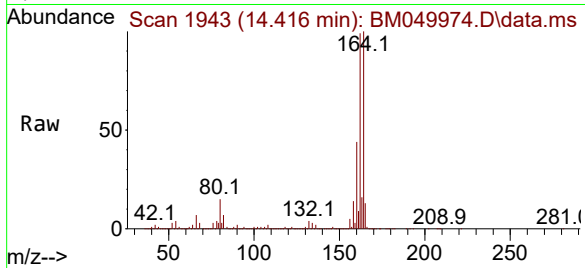




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.416 min Scan# 1943
Delta R.T. -0.006 min
Lab File: BM049974.D
Acq: 18 Apr 2025 20:22

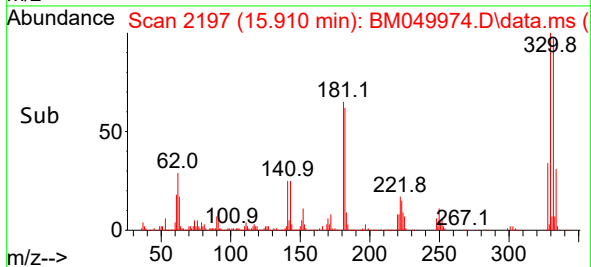
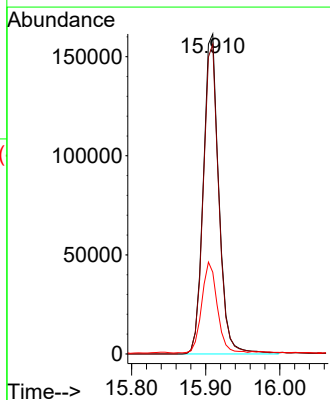
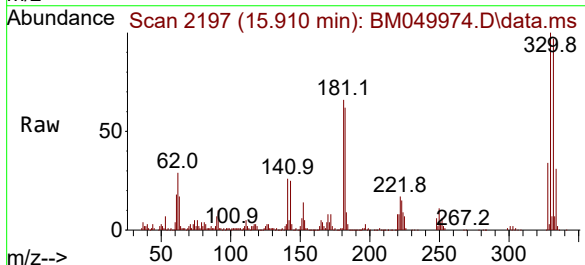
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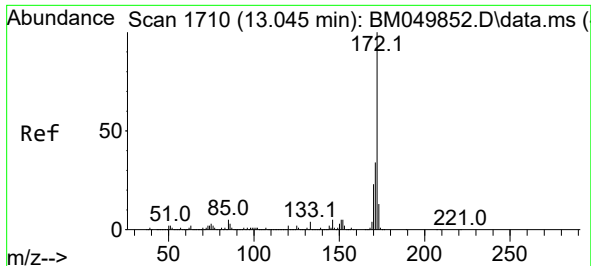
Tgt Ion:164 Resp: 1056809
Ion Ratio Lower Upper
164 100
162 98.6 79.4 119.0
160 44.1 36.2 54.2



#42
2,4,6-Tribromophenol
Concen: 15.298 ng
RT: 15.910 min Scan# 2197
Delta R.T. -0.000 min
Lab File: BM049974.D
Acq: 18 Apr 2025 20:22

Tgt Ion:330 Resp: 235153
Ion Ratio Lower Upper
330 100
332 96.6 78.0 117.0
141 28.3 23.5 35.3

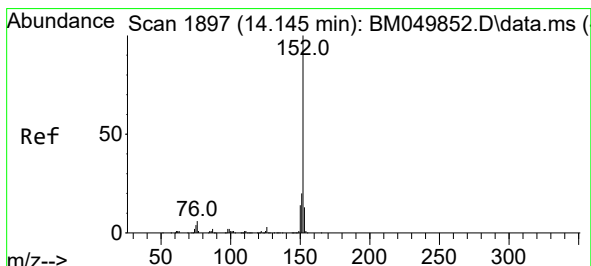
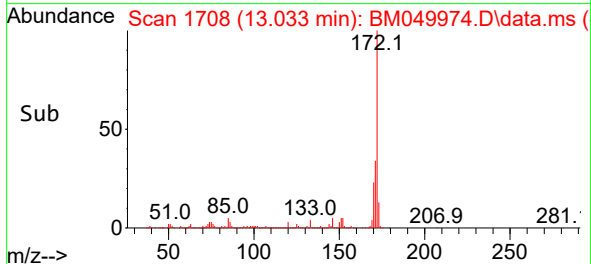
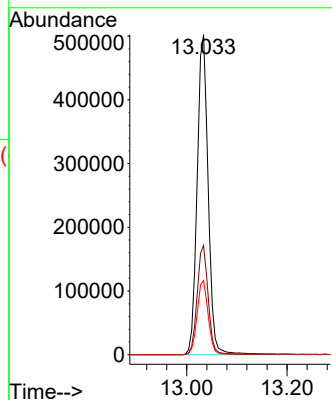
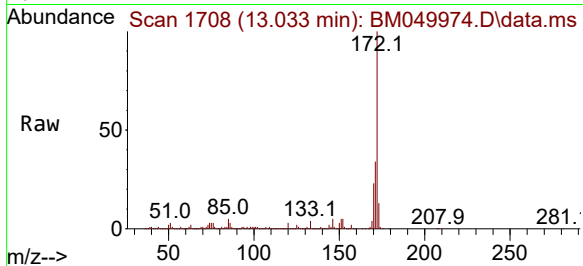




#45
2-Fluorobiphenyl
Concen: 9.813 ng
RT: 13.033 min Scan# 1708
Delta R.T. -0.012 min
Lab File: BM049974.D
Acq: 18 Apr 2025 20:22

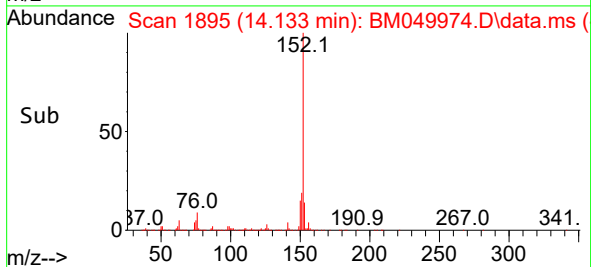
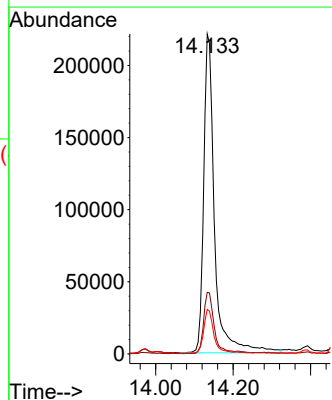
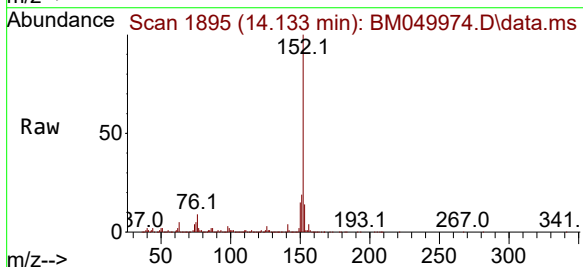
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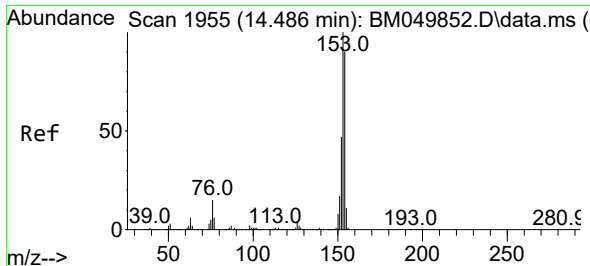
Tgt Ion:172 Resp: 764751
Ion Ratio Lower Upper
172 100
171 34.2 27.4 41.2
170 23.2 18.6 28.0



#49
Acenaphthylene
Concen: 4.772 ng
RT: 14.133 min Scan# 1895
Delta R.T. -0.012 min
Lab File: BM049974.D
Acq: 18 Apr 2025 20:22

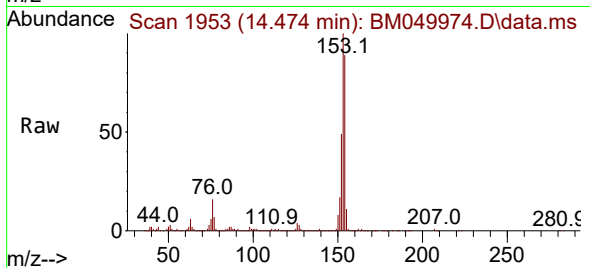
Tgt Ion:152 Resp: 429243
Ion Ratio Lower Upper
152 100
151 19.3 15.7 23.5
153 13.9 10.4 15.6



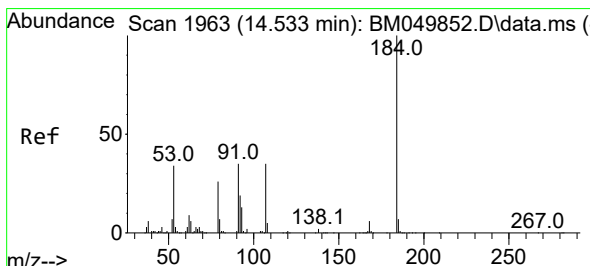
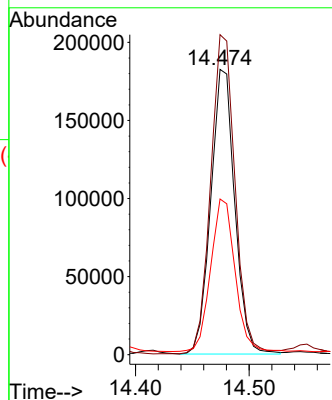
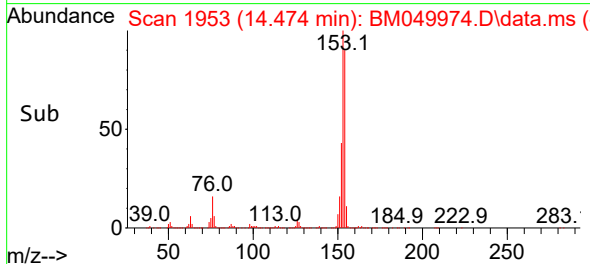


#52
Acenaphthene
Concen: 4.676 ng
RT: 14.474 min Scan# 1953
Delta R.T. -0.012 min
Lab File: BM049974.D
Acq: 18 Apr 2025 20:22

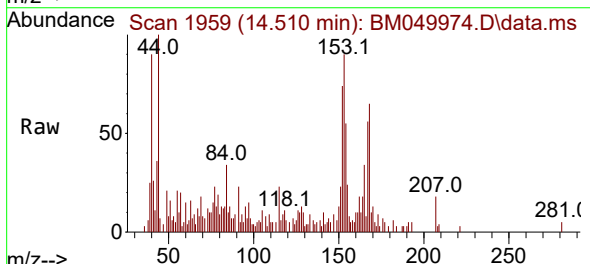
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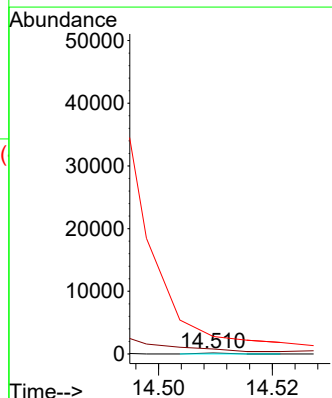
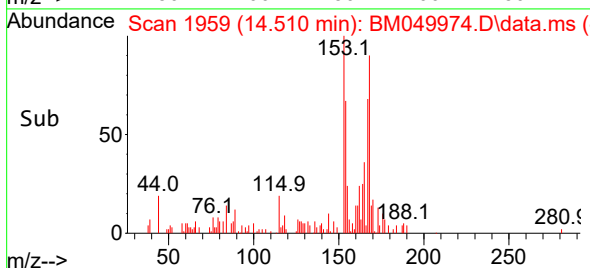
Tgt Ion:154 Resp: 267496
Ion Ratio Lower Upper
154 100
153 112.2 89.3 133.9
152 54.6 42.2 63.2

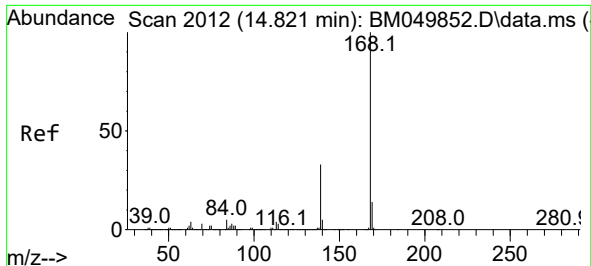


#54
2,4-Dinitrophenol
Concen: 7.229 ng
RT: 14.510 min Scan# 1959
Delta R.T. -0.023 min
Lab File: BM049974.D
Acq: 18 Apr 2025 20:22



Tgt Ion:184 Resp: 53
Ion Ratio Lower Upper
184 100
63 529.8 38.4 57.6#
154 1839.7 48.1 72.1#

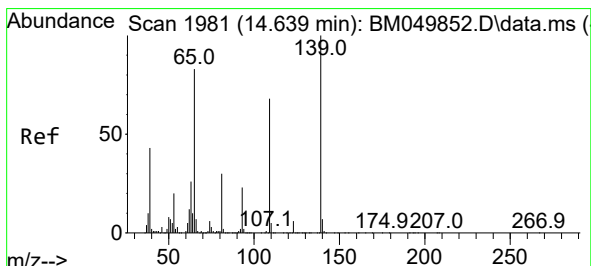
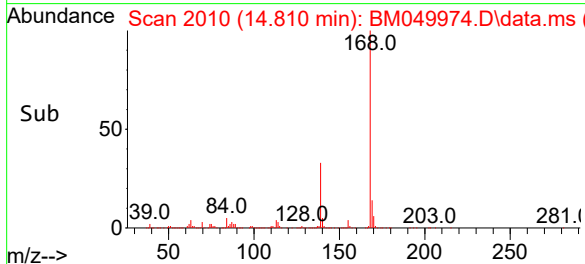
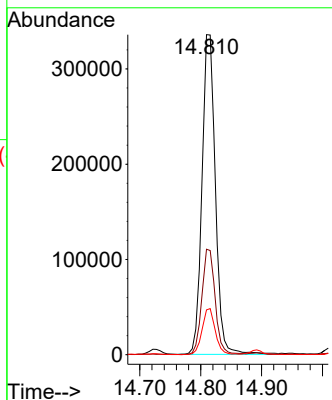
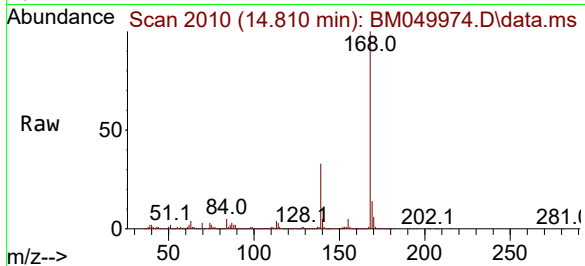




#55
Dibenzenofuran
Concen: 5.372 ng
RT: 14.810 min Scan# 2012
Delta R.T. -0.012 min
Lab File: BM049974.D
Acq: 18 Apr 2025 20:22

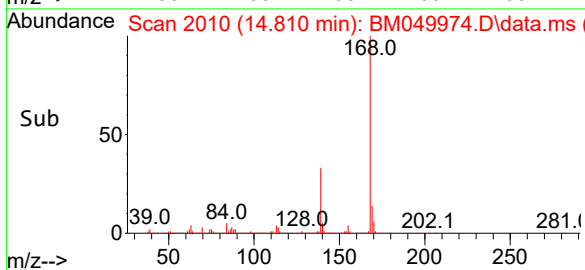
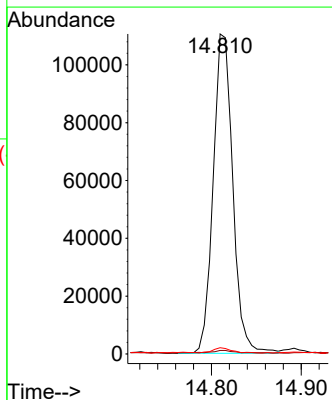
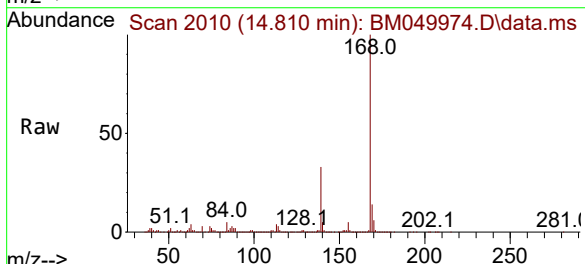
Instrument :
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ClientSampleId :
PL-714-COMP-07

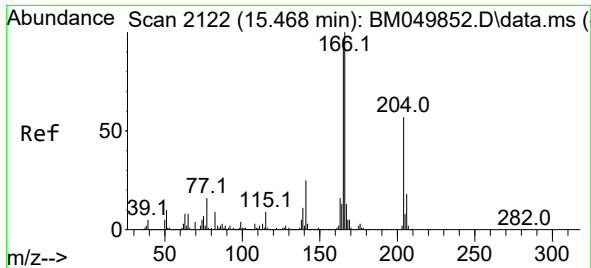
Tgt Ion:168 Resp: 513818
Ion Ratio Lower Upper
168 100
139 32.9 26.6 39.8
169 14.0 11.0 16.4



#56
4-Nitrophenol
Concen: 12.455 ng
RT: 14.810 min Scan# 2010
Delta R.T. 0.171 min
Lab File: BM049974.D
Acq: 18 Apr 2025 20:22

Tgt Ion:139 Resp: 167564
Ion Ratio Lower Upper
139 100
109 1.1 47.9 87.9#
65 1.9 62.7 102.7#

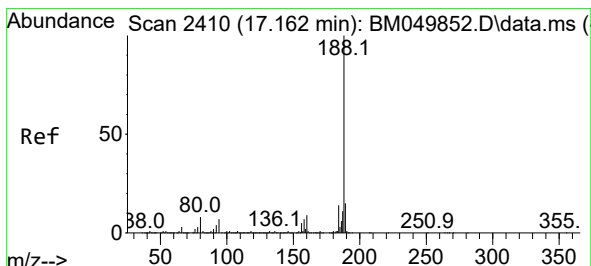
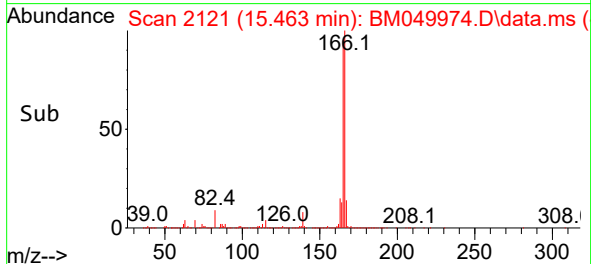
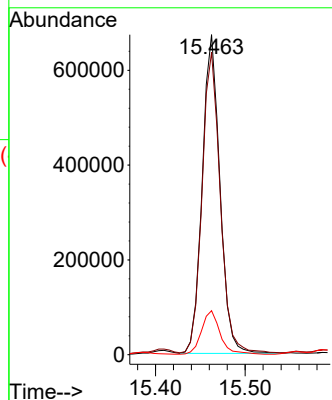
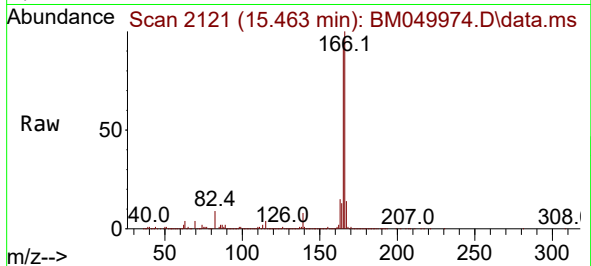




#58
Fluorene
Concen: 12.106 ng
RT: 15.463 min Scan# 2122
Delta R.T. -0.006 min
Lab File: BM049974.D
Acq: 18 Apr 2025 20:22

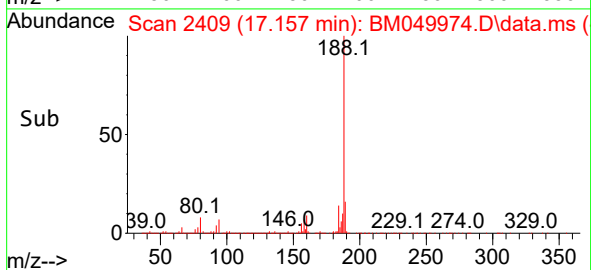
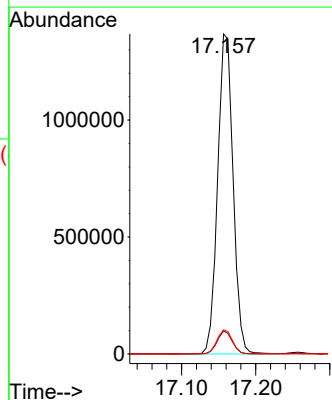
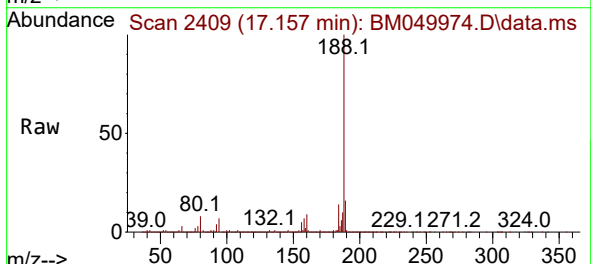
Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-07

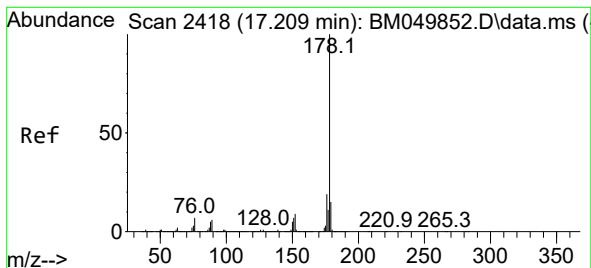
Tgt Ion:166 Resp: 920336
Ion Ratio Lower Upper
166 100
165 94.5 76.3 114.5
167 13.7 10.7 16.1



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.157 min Scan# 2409
Delta R.T. -0.006 min
Lab File: BM049974.D
Acq: 18 Apr 2025 20:22

Tgt Ion:188 Resp: 1982779
Ion Ratio Lower Upper
188 100
94 7.2 5.8 8.6
80 7.6 6.4 9.6





#71

Phenanthrene

Concen: 63.954 ng

RT: 17.204 min Scan# 2418

Delta R.T. -0.006 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-07

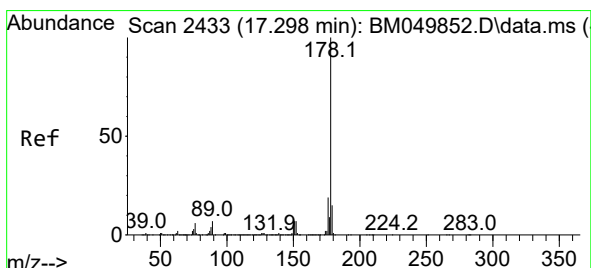
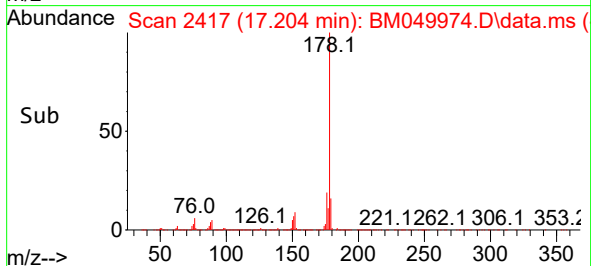
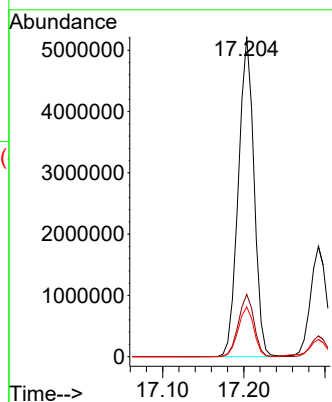
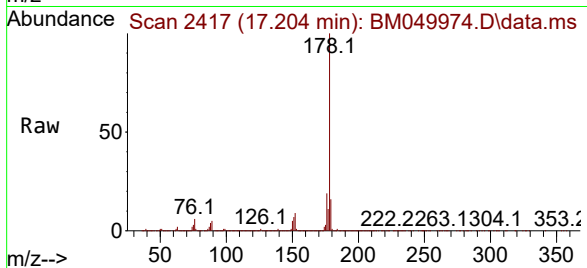
Tgt Ion:178 Resp: 6951994

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

179 15.5 12.3 18.5



#72

Anthracene

Concen: 22.852 ng

RT: 17.292 min Scan# 2432

Delta R.T. -0.006 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

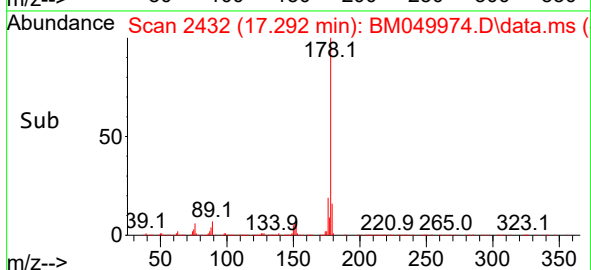
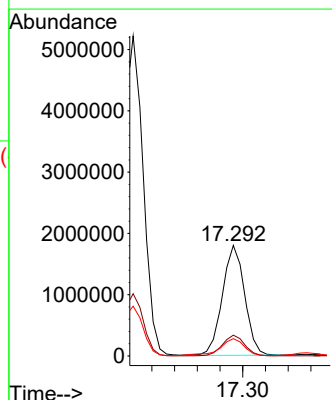
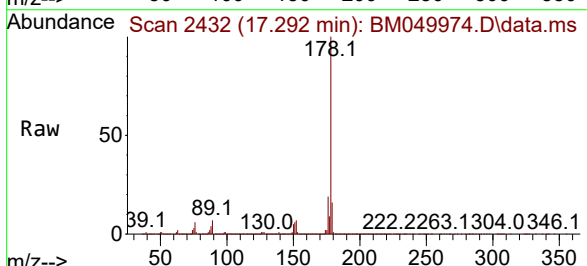
Tgt Ion:178 Resp: 2448032

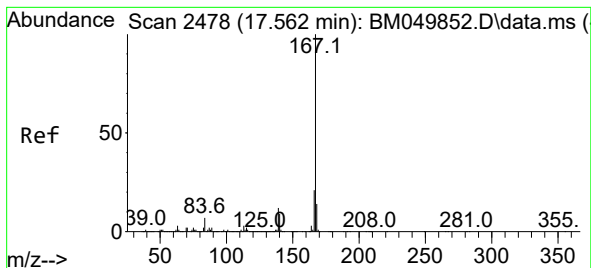
Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

179 15.7 12.4 18.6





#73

Carbazole

Concen: 2.936 ng

RT: 17.562 min Scan# 24

Delta R.T. -0.000 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-07

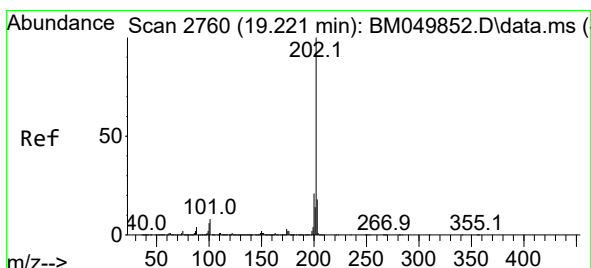
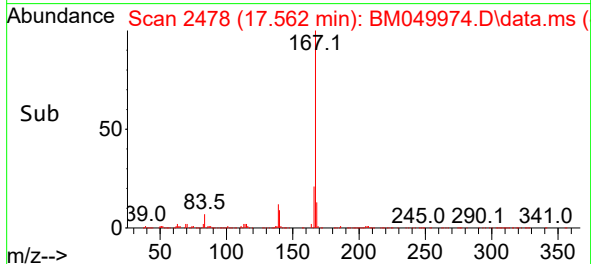
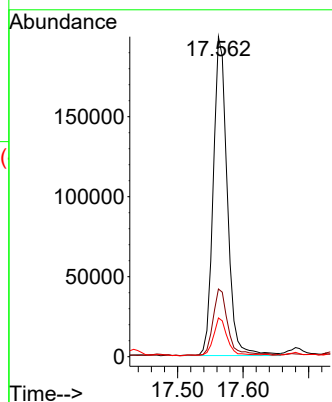
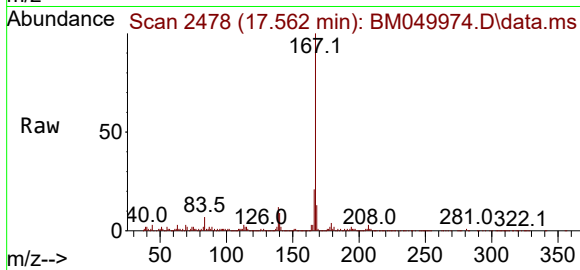
Tgt Ion:167 Resp: 296212

Ion Ratio Lower Upper

167 100

166 21.1 16.9 25.3

139 12.1 9.3 13.9



#75

Fluoranthene

Concen: 76.289 ng

RT: 19.221 min Scan# 2760

Delta R.T. -0.000 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

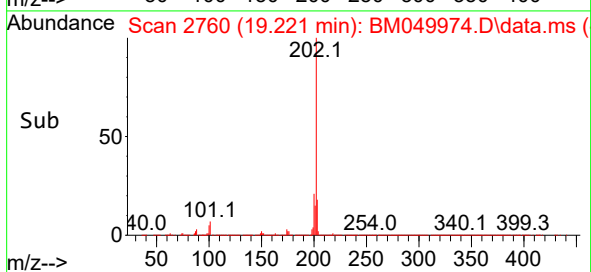
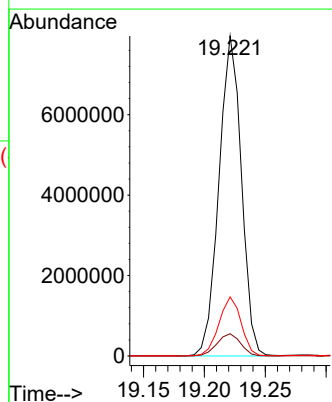
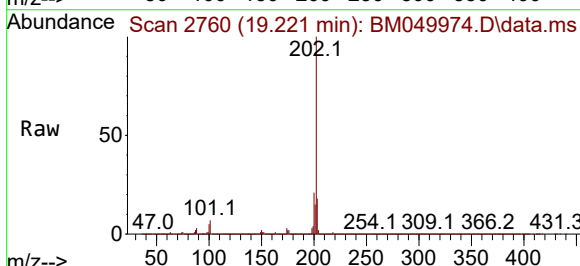
Tgt Ion:202 Resp:10196518

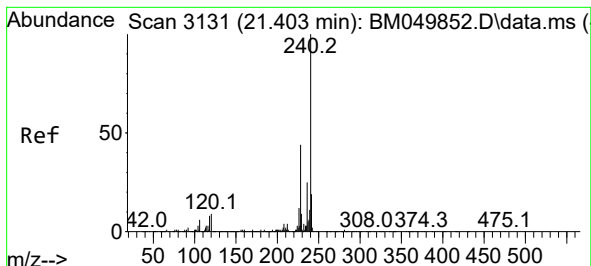
Ion Ratio Lower Upper

202 100

101 7.0 0.0 28.4

203 18.5 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.403 min Scan# 3131

Delta R.T. -0.000 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-07

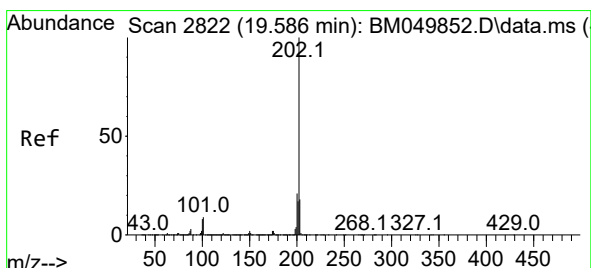
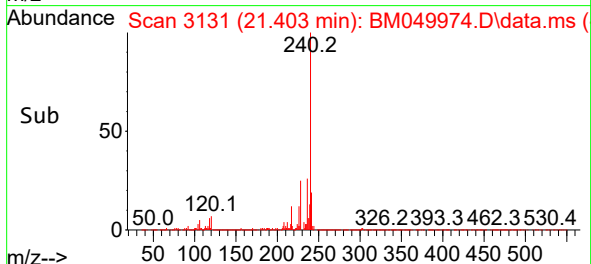
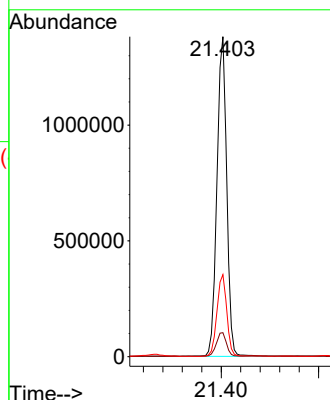
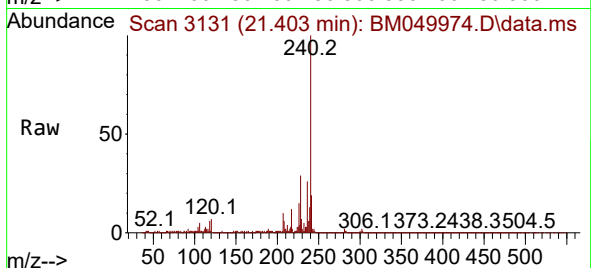
Tgt Ion:240 Resp: 1918056

Ion Ratio Lower Upper

240 100

120 7.5 6.9 10.3

236 25.7 20.4 30.6



#78

Pyrene

Concen: 59.628 ng

RT: 19.586 min Scan# 2822

Delta R.T. -0.000 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

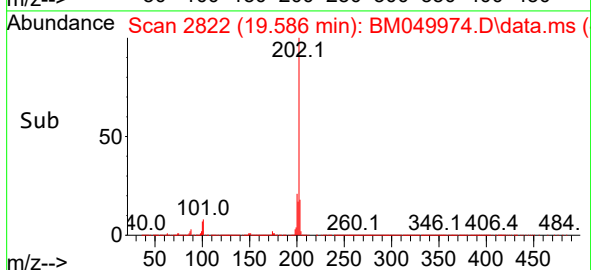
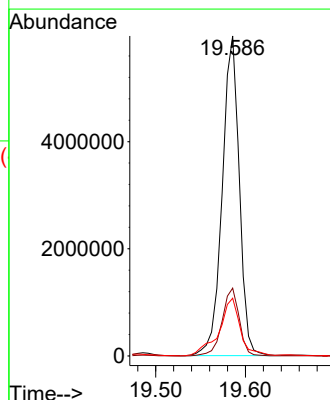
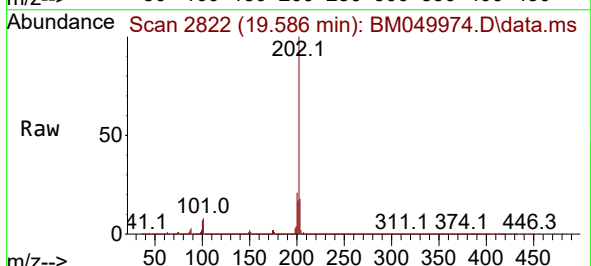
Tgt Ion:202 Resp: 7882174

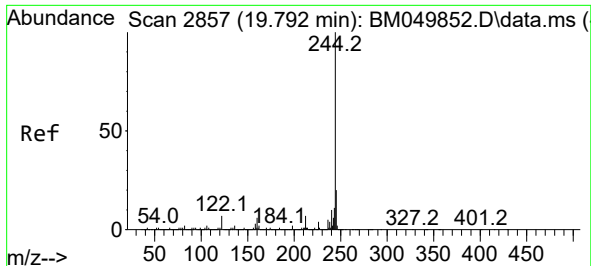
Ion Ratio Lower Upper

202 100

200 21.2 16.5 24.7

203 18.1 14.0 21.0

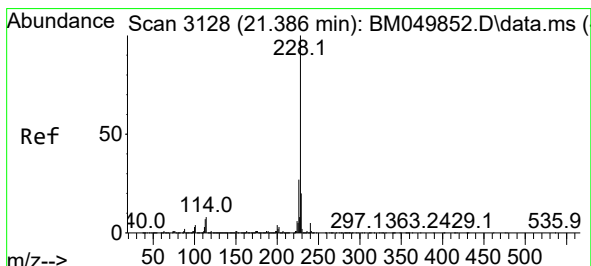
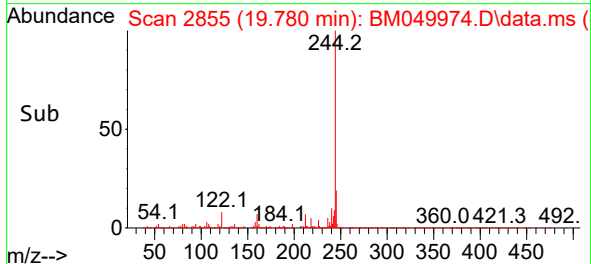
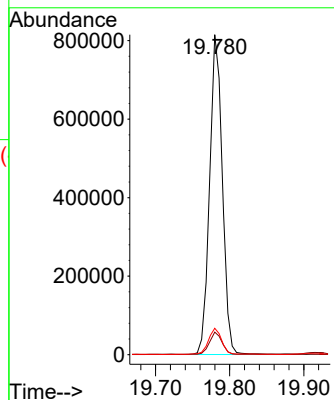
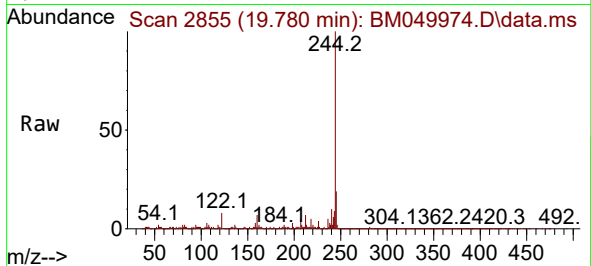




#79
 Terphenyl-d14
 Concen: 9.489 ng
 RT: 19.780 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BM049974.D
 Acq: 18 Apr 2025 20:22

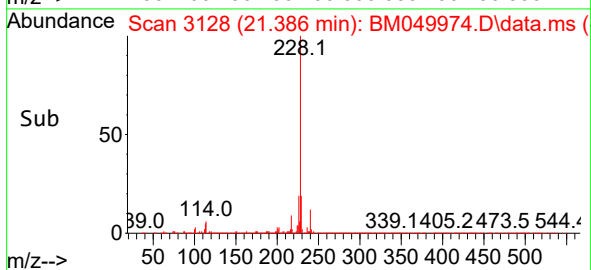
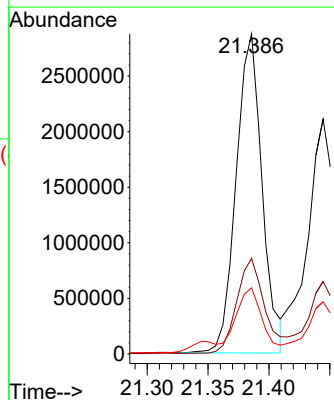
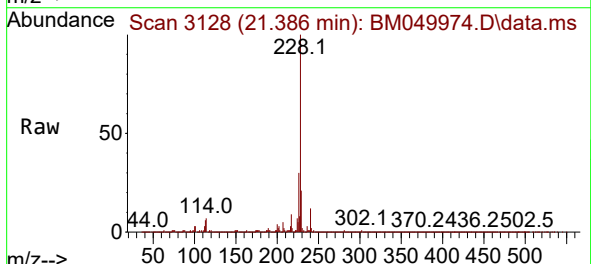
Instrument :
 BNA_M
 ClientSampleId :
 PL-714-COMP-07

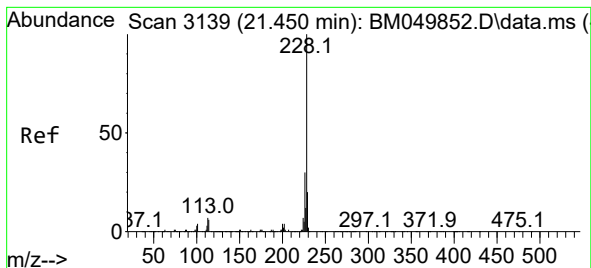
Tgt Ion:244 Resp: 971133
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.5 8.3
 122 8.2 5.4 8.0#



#81
 Benzo(a)anthracene
 Concen: 33.386 ng
 RT: 21.386 min Scan# 3128
 Delta R.T. -0.000 min
 Lab File: BM049974.D
 Acq: 18 Apr 2025 20:22

Tgt Ion:228 Resp: 4255779
 Ion Ratio Lower Upper
 228 100
 226 29.9 21.8 32.8
 229 20.6 15.8 23.8





#83

Chrysene

Concen: 27.297 ng

RT: 21.444 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-07

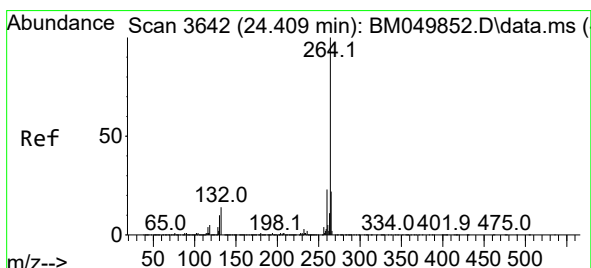
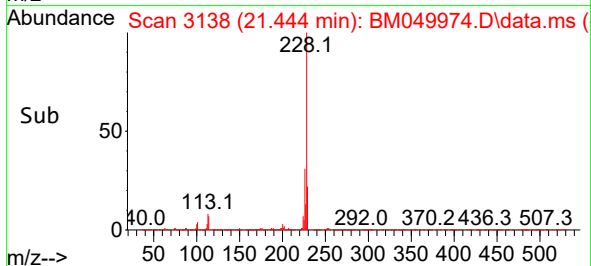
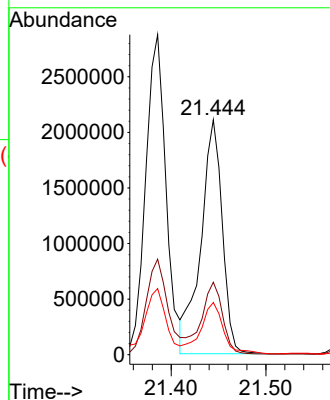
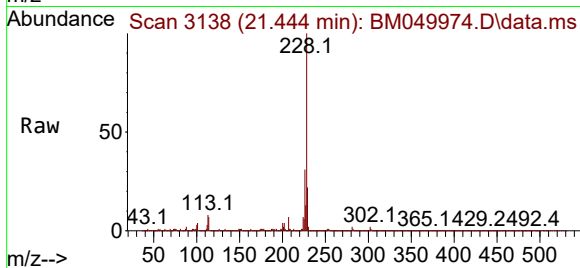
Tgt Ion:228 Resp: 3308130

Ion Ratio Lower Upper

228 100

226 30.9 24.1 36.1

229 22.2 15.8 23.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.409 min Scan# 3642

Delta R.T. -0.000 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

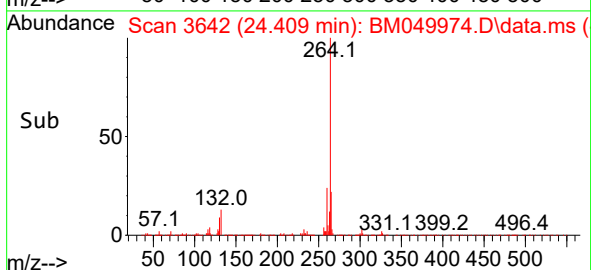
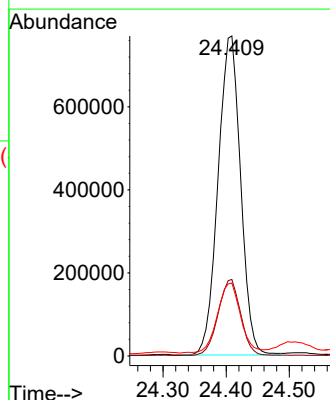
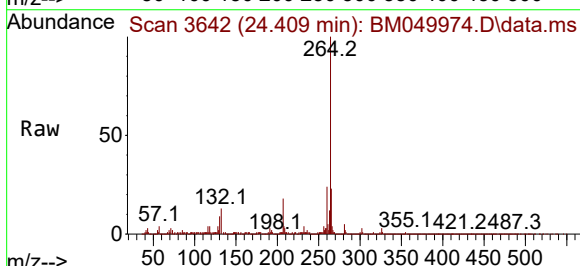
Tgt Ion:264 Resp: 1904503

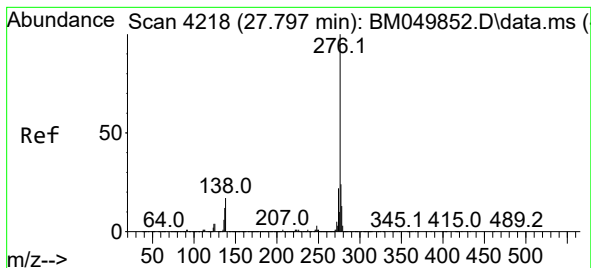
Ion Ratio Lower Upper

264 100

260 23.9 18.6 28.0

265 22.8 17.8 26.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 12.220 ng

RT: 27.797 min Scan# 41

Delta R.T. -0.000 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-07

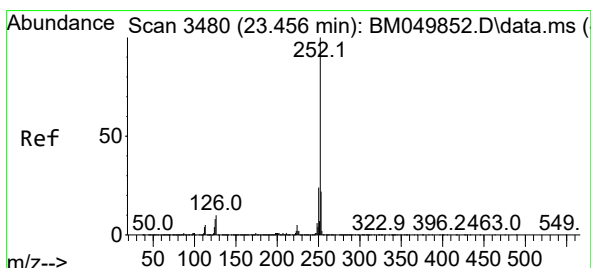
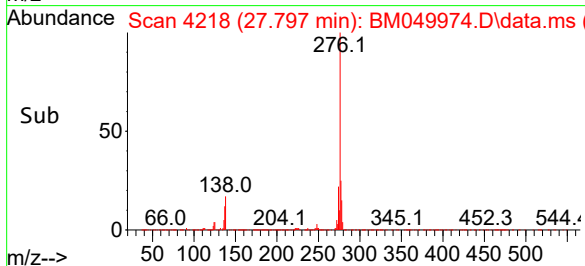
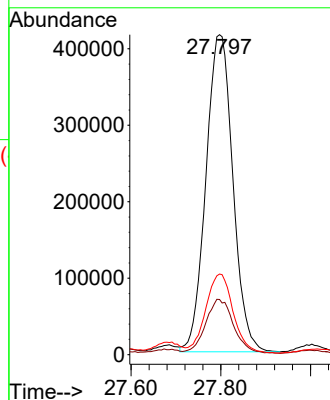
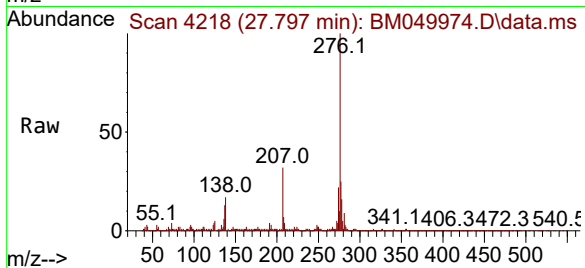
Tgt Ion:276 Resp: 1734817

Ion Ratio Lower Upper

276 100

138 17.7 16.8 25.2

277 25.4 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 32.447 ng

RT: 23.462 min Scan# 3481

Delta R.T. 0.006 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

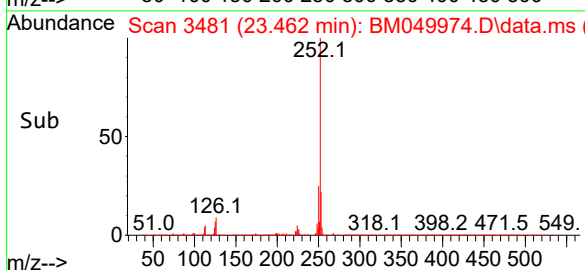
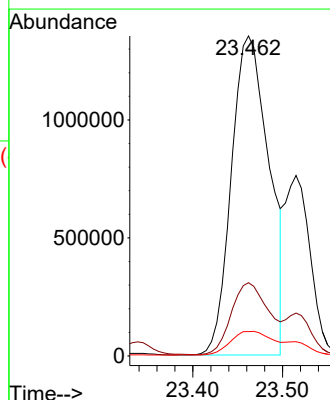
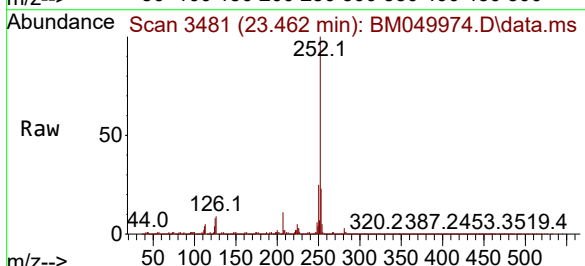
Tgt Ion:252 Resp: 3946658

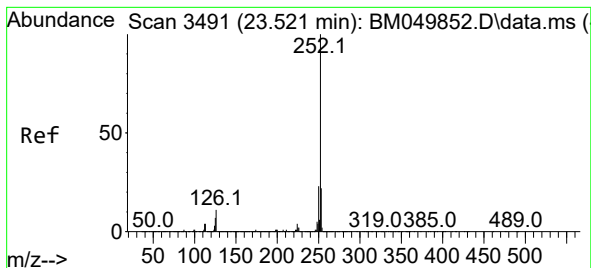
Ion Ratio Lower Upper

252 100

253 22.9 17.5 26.3

125 7.6 6.2 9.4





#89

Benzo(k)fluoranthene

Concen: 33.483 ng

RT: 23.462 min Scan# 34

Delta R.T. -0.059 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-07

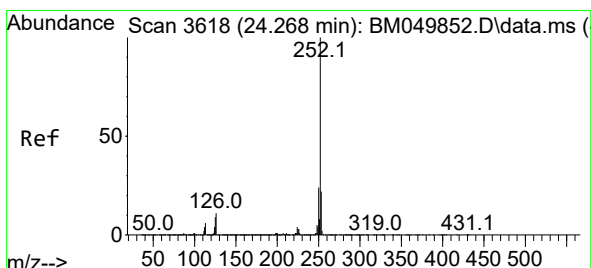
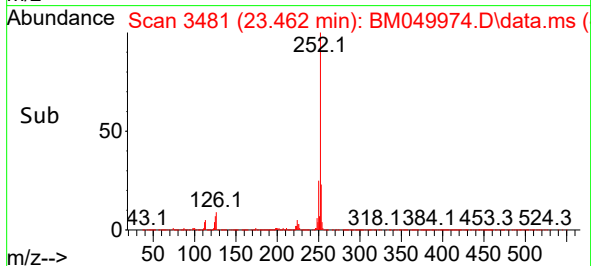
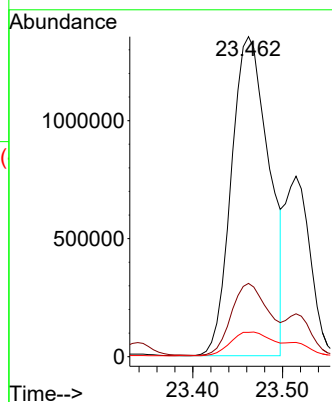
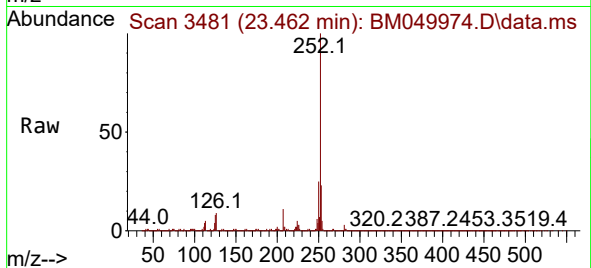
Tgt Ion:252 Resp: 3946658

Ion Ratio Lower Upper

252 100

253 22.9 17.4 26.2

125 7.6 5.8 8.8



#90

Benzo(a)pyrene

Concen: 27.625 ng

RT: 24.268 min Scan# 3618

Delta R.T. -0.000 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

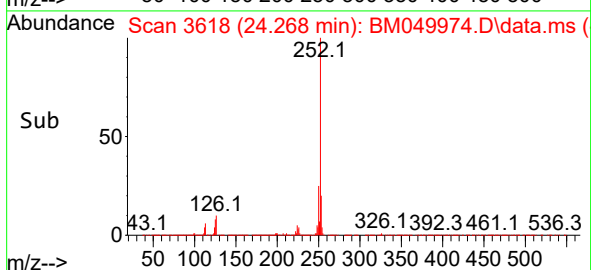
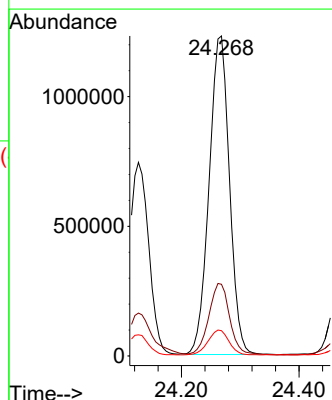
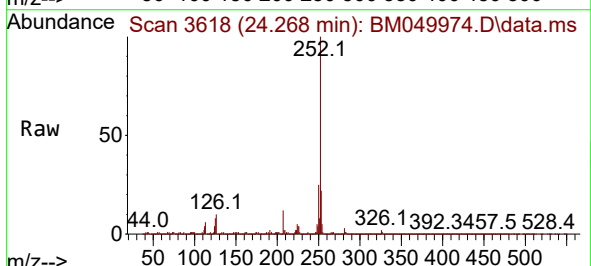
Tgt Ion:252 Resp: 2952619

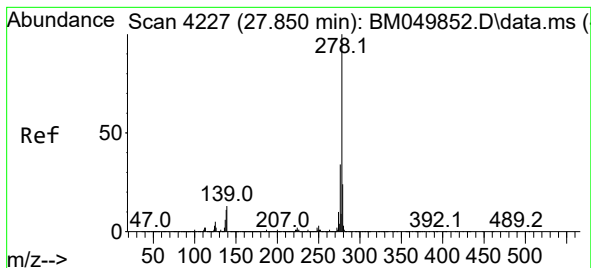
Ion Ratio Lower Upper

252 100

253 22.4 17.8 26.8

125 7.9 7.0 10.4





#91

Dibenzo(a,h)anthracene

Concen: 4.068 ng

RT: 27.832 min Scan# 41

Delta R.T. -0.018 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-07

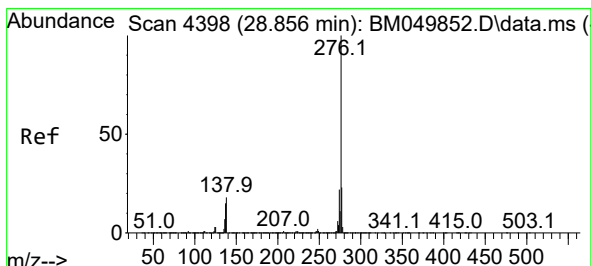
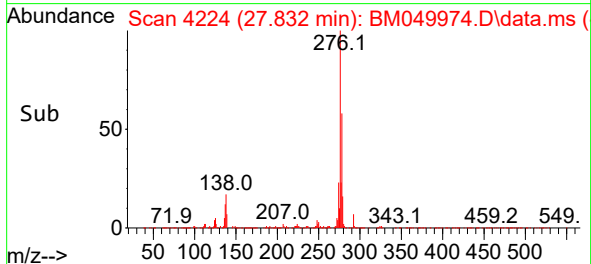
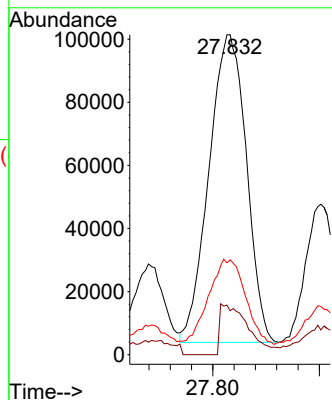
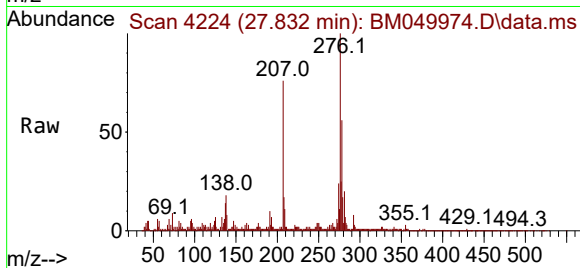
Tgt Ion:278 Resp: 475734

Ion Ratio Lower Upper

278 100

139 13.7 10.6 15.8

279 29.7 19.1 28.7#



#92

Benzo(g,h,i)perylene

Concen: 13.158 ng

RT: 28.850 min Scan# 4397

Delta R.T. -0.006 min

Lab File: BM049974.D

Acq: 18 Apr 2025 20:22

Tgt Ion:276 Resp: 1572216

Ion Ratio Lower Upper

276 100

277 24.5 18.7 28.1

138 17.6 14.6 21.8

