

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041825\
 Data File : BM049976.D
 Acq On : 18 Apr 2025 21:41
 Operator : RC/JU
 Sample : Q1832-31 10X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PL-714-COMP-6

Quant Time: Apr 18 23:56:02 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)

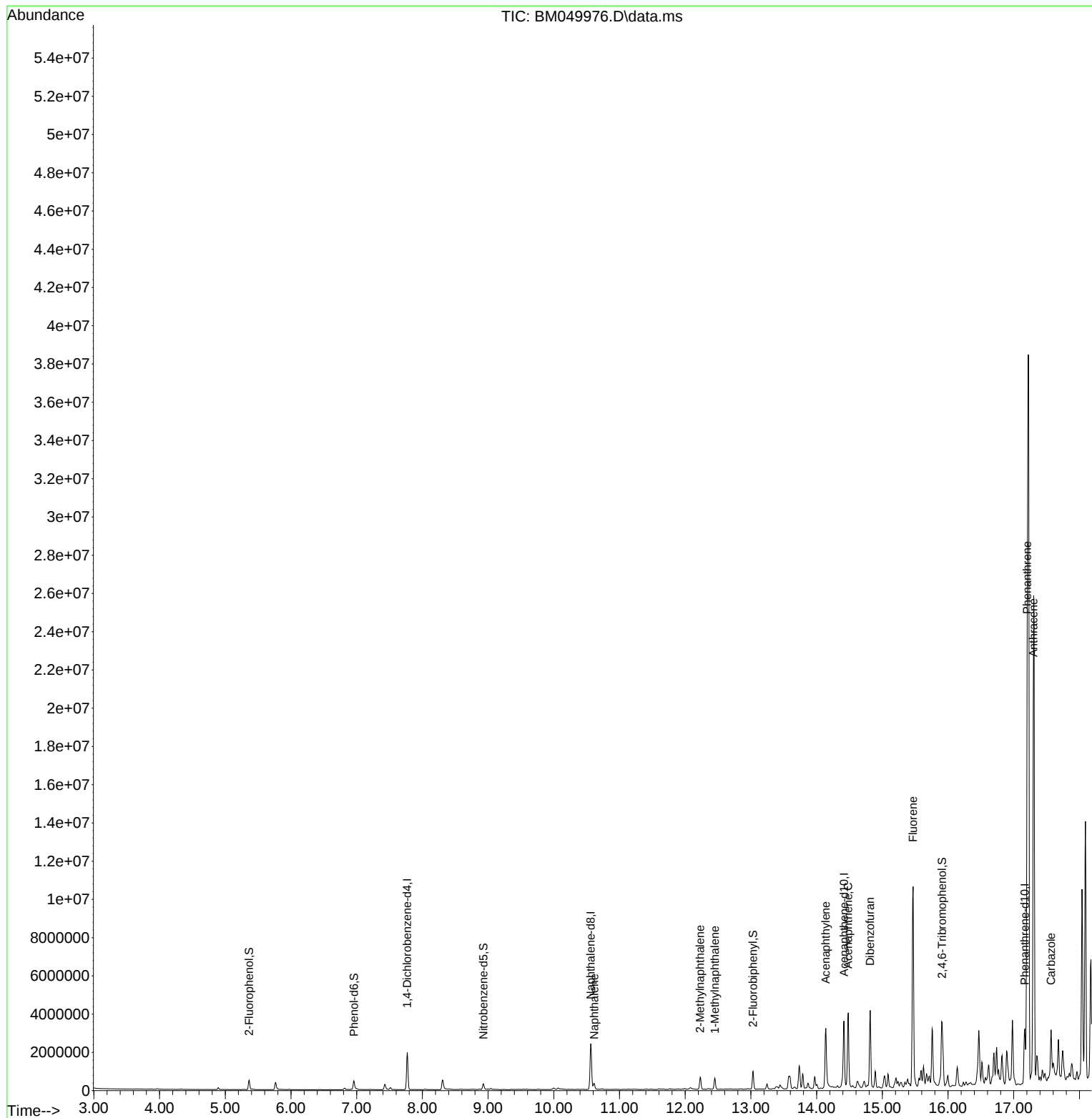
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.769	152	567332	20.000	ng	-0.01
21) Naphthalene-d8	10.563	136	2039847	20.000	ng	-0.01
39) Acenaphthene-d10	14.416	164	1276427	20.000	ng	0.00
64) Phenanthrene-d10	17.168	188	2040152	20.000	ng	0.00
76) Chrysene-d12	21.421	240	1912373	20.000	ng	# 0.02
86) Perylene-d12	24.433	264	2110485	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.363	112	241272	7.221	ng	0.00
7) Phenol-d6	6.957	99	303152	7.293	ng	0.00
23) Nitrobenzene-d5	8.928	82	178217	4.865	ng	0.00
42) 2,4,6-Tribromophenol	15.910	330	127650	6.875	ng	0.00
45) 2-Fluorobiphenyl	13.033	172	512491	5.444	ng	-0.01
79) Terphenyl-d14	19.786	244	591690	5.798	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.616	128	229190	2.187	ng	97
37) 2-Methylnaphthalene	12.227	142	327989	4.441	ng	99
38) 1-Methylnaphthalene	12.451	142	283944	3.947	ng	99
49) Acenaphthylene	14.139	152	2888896	26.593	ng	100
52) Acenaphthene	14.480	154	1415003	20.477	ng	98
55) Dibenzofuran	14.816	168	2359979	20.430	ng	98
58) Fluorene	15.468	166	4905662	53.426	ng	99
71) Phenanthrene	17.204	178	21949889m	196.245	ng	
72) Anthracene	17.298	178	14899235	135.171	ng	# 92
73) Carbazole	17.568	167	1691482	16.293	ng	99
75) Fluoranthene	19.221	202	26696217m	194.121	ng	
78) Pyrene	19.586	202	25375440m	192.534	ng	
81) Benzo(a)anthracene	21.392	228	23125829m	181.956	ng	
83) Chrysene	21.456	228	22719673m	188.029	ng	
87) Indeno(1,2,3-cd)pyrene	27.891	276	17567002	111.665	ng	# 94
88) Benzo(b)fluoranthene	23.491	252	34909589m	258.995	ng	
89) Benzo(k)fluoranthene	23.556	252	14917620m	114.206	ng	
90) Benzo(a)pyrene	24.309	252	27473766	231.957	ng	95
91) Dibenzo(a,h)anthracene	27.909	278	4952400	38.219	ng	93
92) Benzo(g,h,i)perylene	28.956	276	15224282	114.974	ng	95

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

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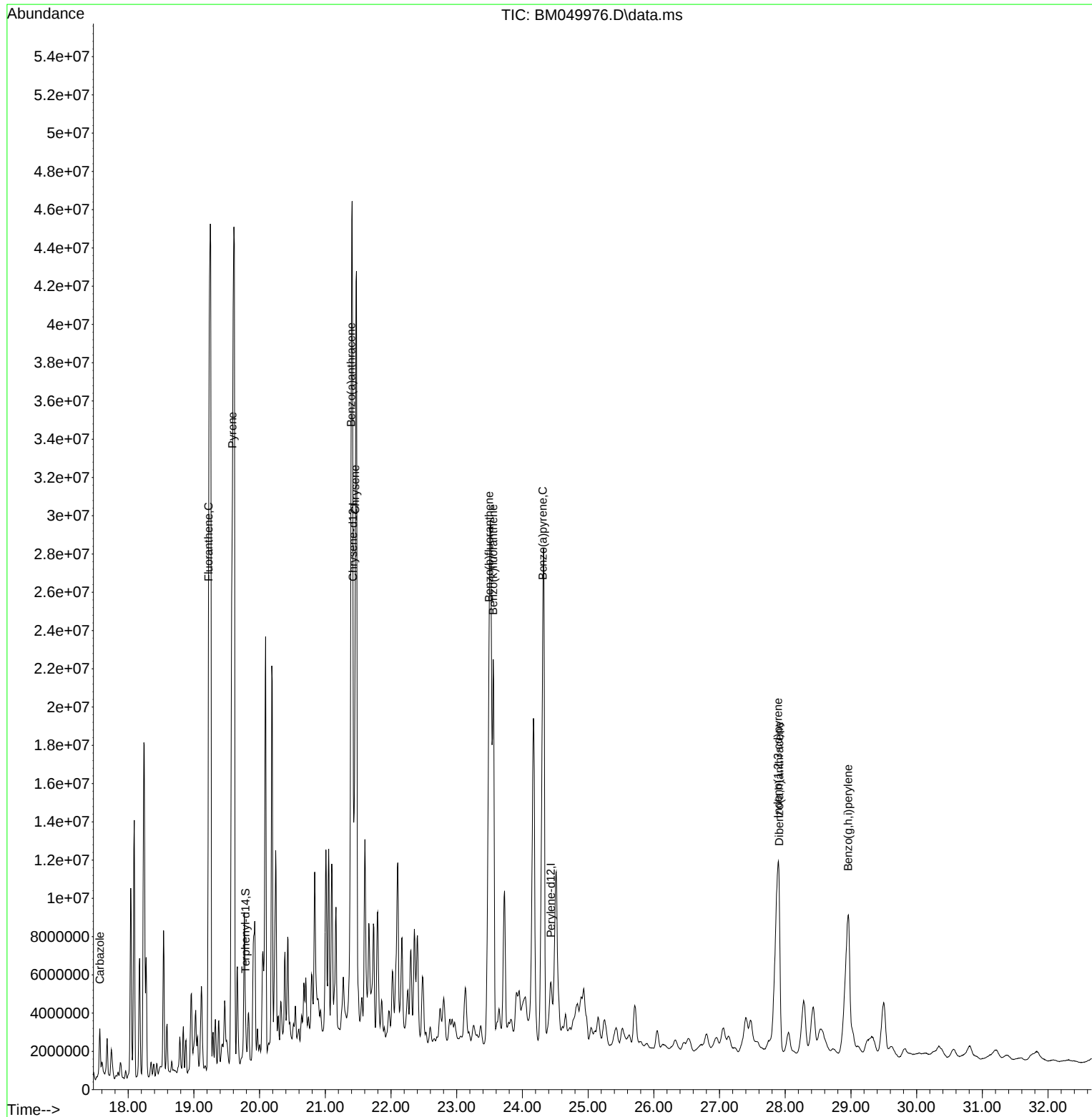
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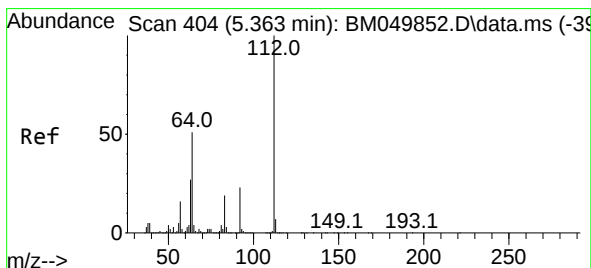
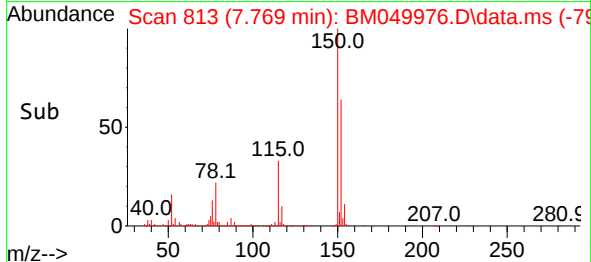
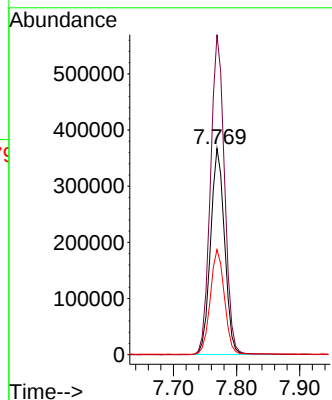
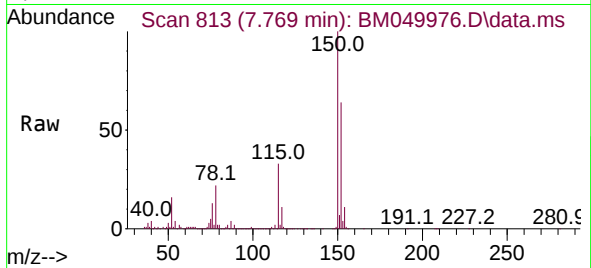




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 815
Delta R.T. -0.012 min
Lab File: BM049976.D
Acq: 18 Apr 2025 21:41

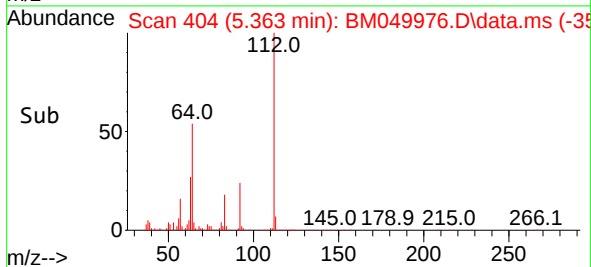
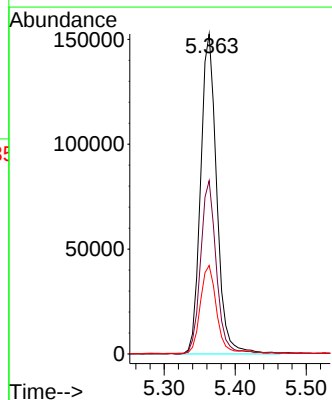
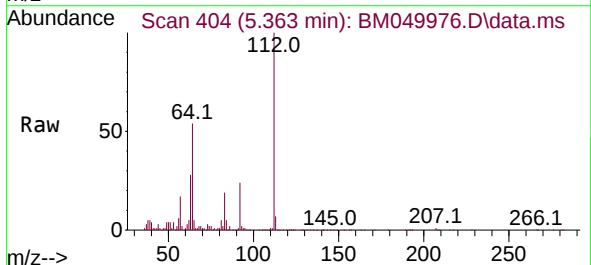
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BNA_M
ClientSampleId :
PL-714-COMP-6

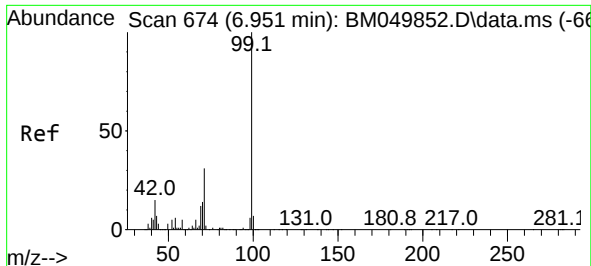
Tgt Ion:152 Resp: 567332
Ion Ratio Lower Upper
152 100
150 155.2 124.3 186.5
115 51.0 41.1 61.7



#5
2-Fluorophenol
Concen: 7.221 ng
RT: 5.363 min Scan# 404
Delta R.T. 0.000 min
Lab File: BM049976.D
Acq: 18 Apr 2025 21:41

Tgt Ion:112 Resp: 241272
Ion Ratio Lower Upper
112 100
64 54.2 41.0 61.6
63 27.6 21.5 32.3

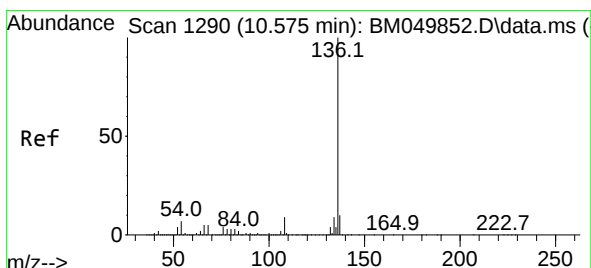
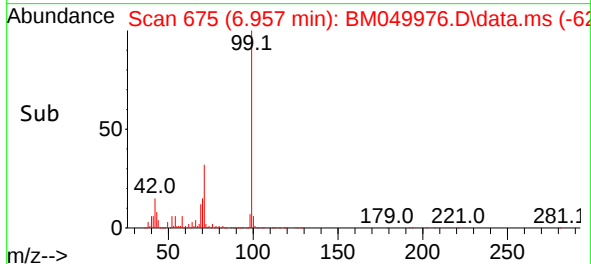
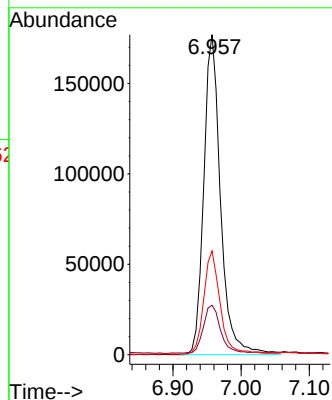
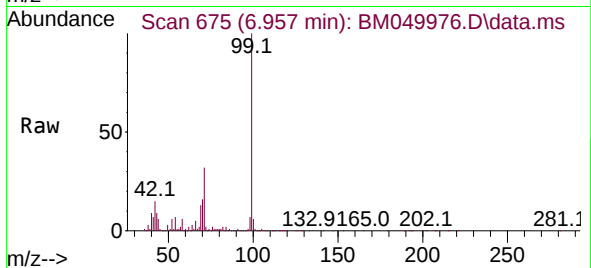




#7
Phenol-d6
Concen: 7.293 ng
RT: 6.957 min Scan# 61
Delta R.T. 0.006 min
Lab File: BM049976.D
Acq: 18 Apr 2025 21:41

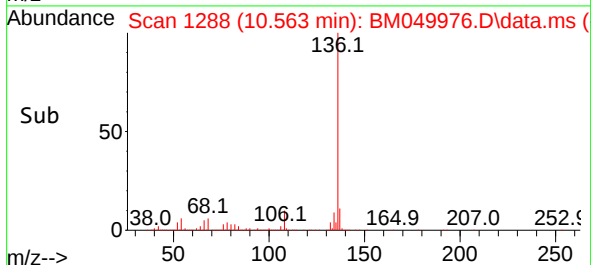
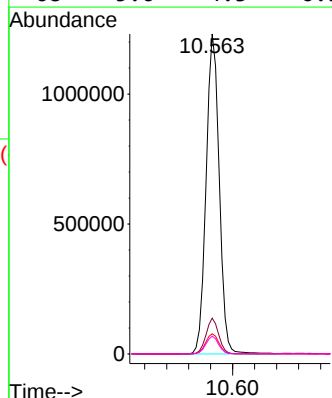
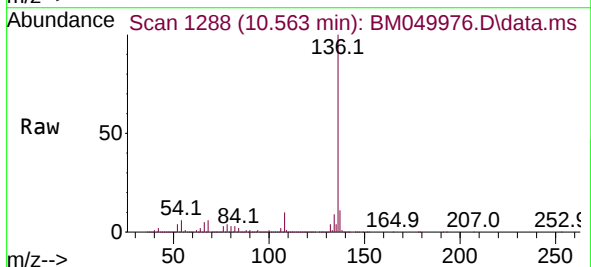
Instrument :
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ClientSampleId :
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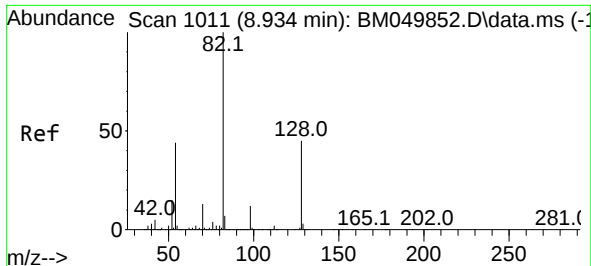
Tgt Ion: 99 Resp: 303152
Ion Ratio Lower Upper
99 100
42 15.4 12.1 18.1
71 32.4 24.9 37.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.563 min Scan# 1288
Delta R.T. -0.012 min
Lab File: BM049976.D
Acq: 18 Apr 2025 21:41

Tgt Ion: 136 Resp: 2039847
Ion Ratio Lower Upper
136 100
137 11.2 8.4 12.6
54 6.3 5.3 7.9
68 5.6 4.3 6.5

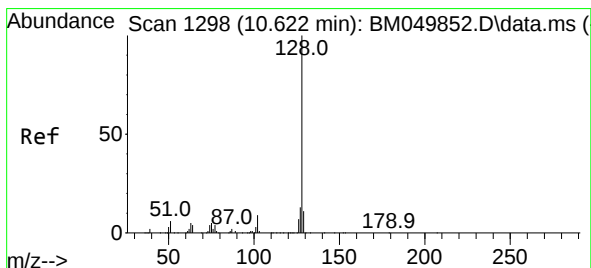
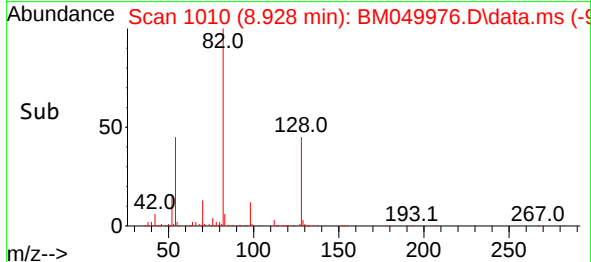
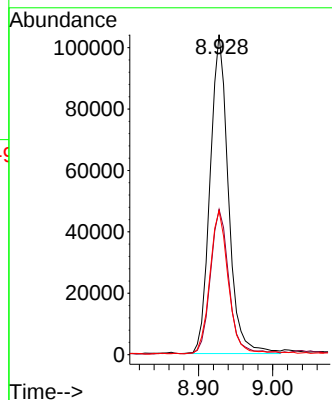
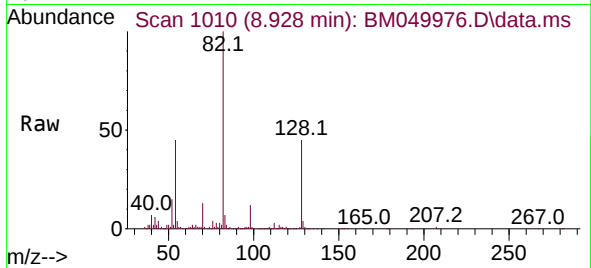




#23
Nitrobenzene-d5
Concen: 4.865 ng
RT: 8.928 min Scan# 1010
Delta R.T. -0.006 min
Lab File: BM049976.D
Acq: 18 Apr 2025 21:41

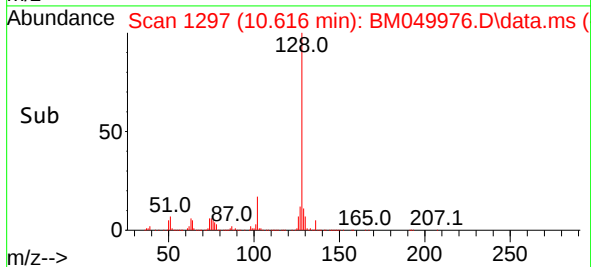
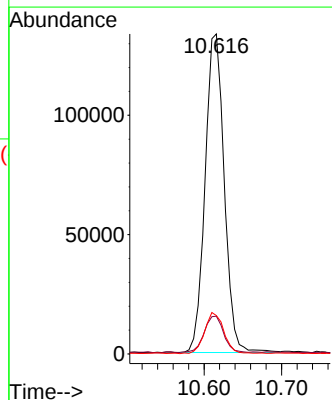
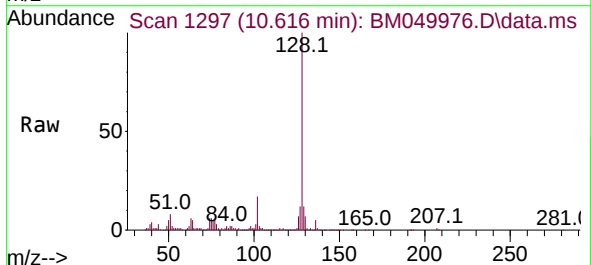
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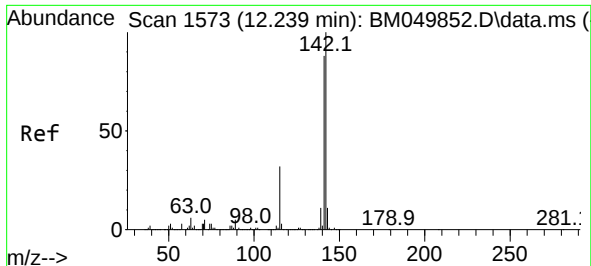
Tgt Ion: 82 Resp: 178217
Ion Ratio Lower Upper
82 100
128 45.4 36.2 54.2
54 44.9 35.0 52.6



#31
Naphthalene
Concen: 2.187 ng
RT: 10.616 min Scan# 1297
Delta R.T. -0.006 min
Lab File: BM049976.D
Acq: 18 Apr 2025 21:41

Tgt Ion:128 Resp: 229190
Ion Ratio Lower Upper
128 100
129 11.8 8.8 13.2
127 12.0 10.6 15.8

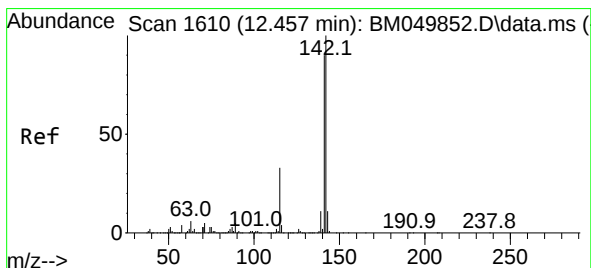
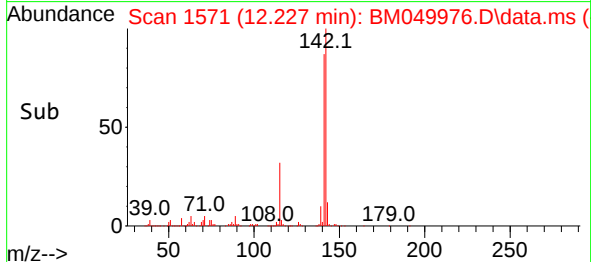
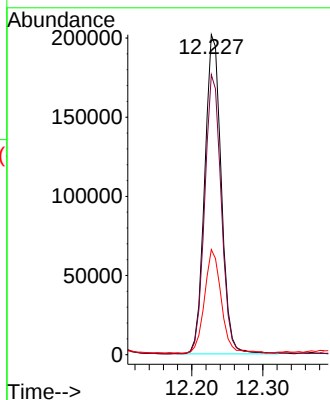
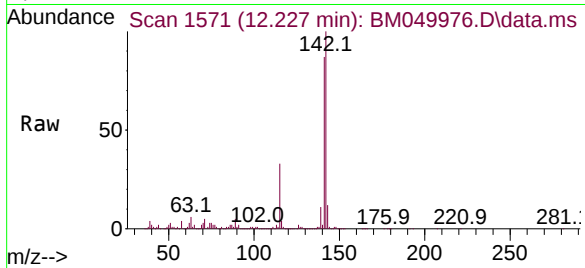




#37
2-Methylnaphthalene
Concen: 4.441 ng
RT: 12.227 min Scan# 1
Delta R.T. -0.012 min
Lab File: BM049976.D
Acq: 18 Apr 2025 21:41

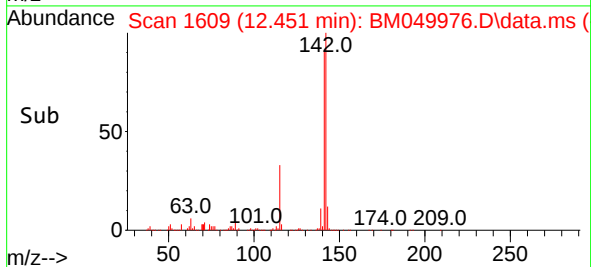
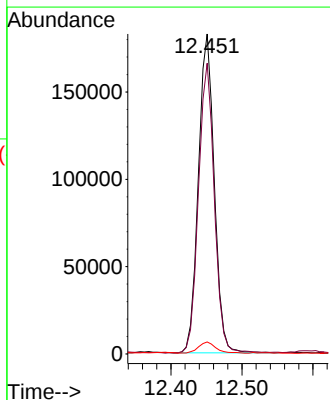
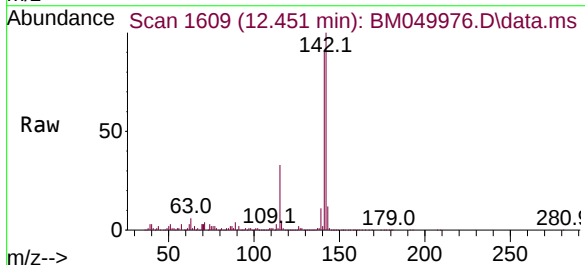
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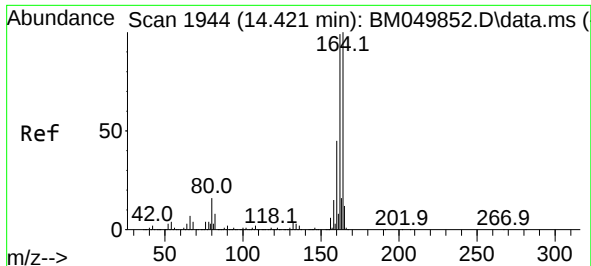
Tgt Ion:142 Resp: 327989
Ion Ratio Lower Upper
142 100
141 87.5 70.2 105.2
115 32.9 25.4 38.2



#38
1-Methylnaphthalene
Concen: 3.947 ng
RT: 12.451 min Scan# 1609
Delta R.T. -0.006 min
Lab File: BM049976.D
Acq: 18 Apr 2025 21:41

Tgt Ion:142 Resp: 283944
Ion Ratio Lower Upper
142 100
141 90.8 72.2 108.2
116 3.7 2.9 4.3

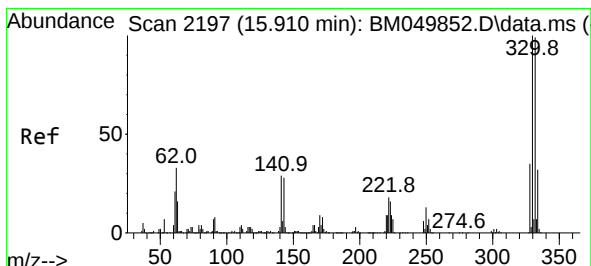
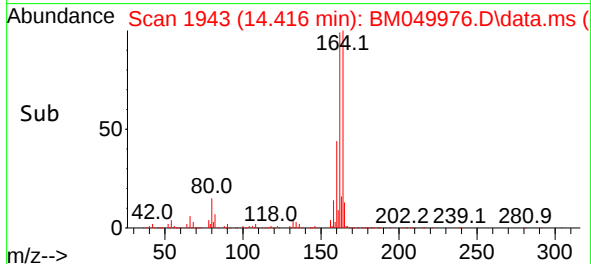
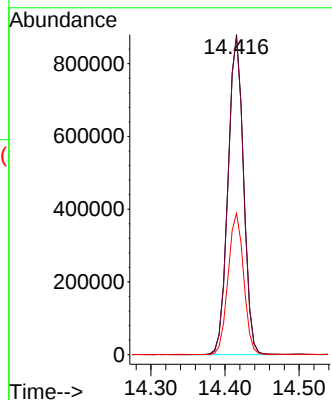
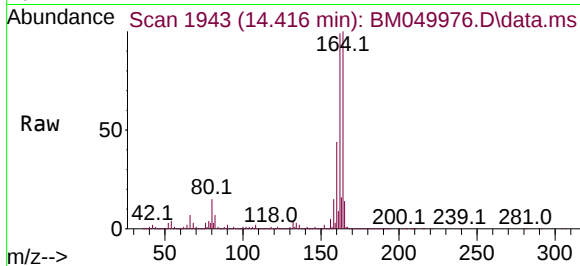




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.416 min Scan# 1943
Delta R.T. -0.006 min
Lab File: BM049976.D
Acq: 18 Apr 2025 21:41

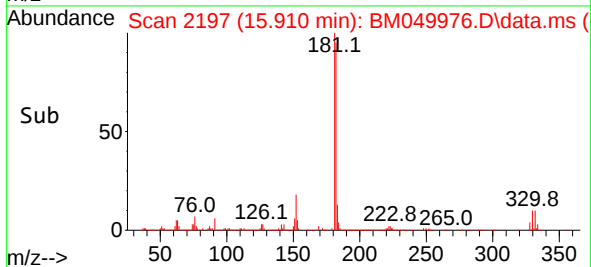
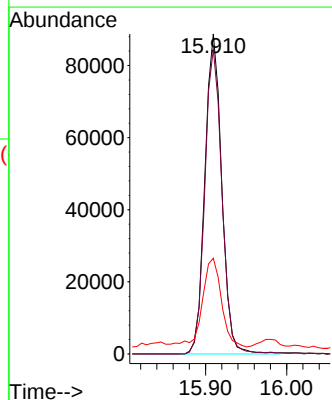
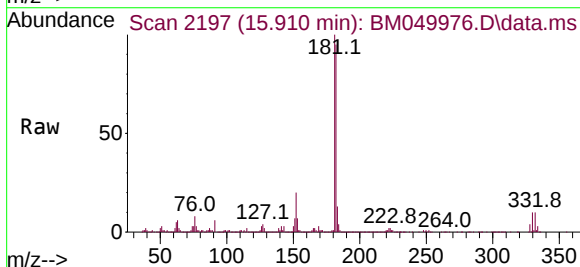
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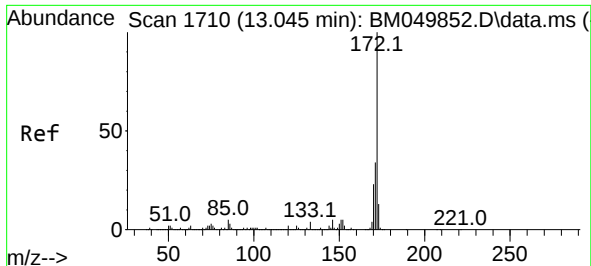
Tgt Ion:164 Resp: 1276427
Ion Ratio Lower Upper
164 100
162 99.4 79.4 119.0
160 44.2 36.2 54.2



#42
2,4,6-Tribromophenol
Concen: 6.875 ng
RT: 15.910 min Scan# 2197
Delta R.T. 0.000 min
Lab File: BM049976.D
Acq: 18 Apr 2025 21:41

Tgt Ion:330 Resp: 127650
Ion Ratio Lower Upper
330 100
332 97.1 78.0 117.0
141 31.4 23.5 35.3

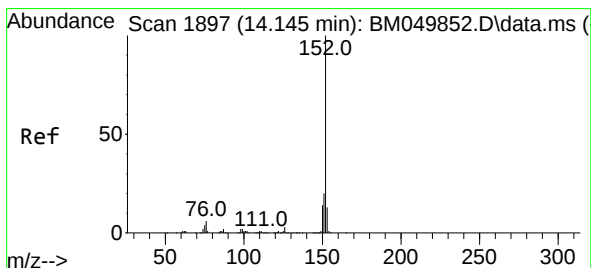
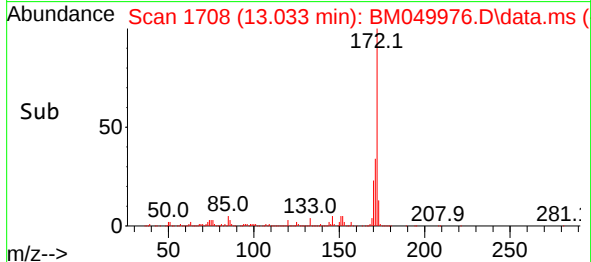
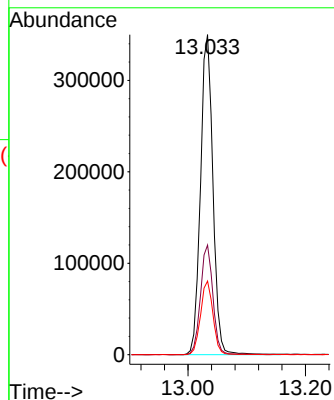
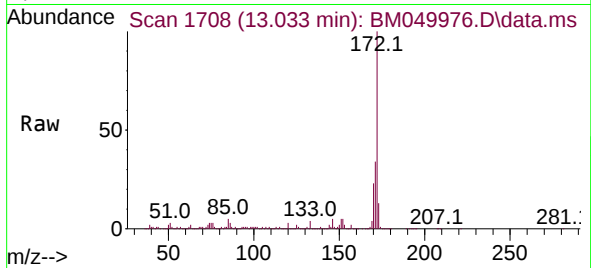




#45
2-Fluorobiphenyl
Concen: 5.444 ng
RT: 13.033 min Scan# 1708
Delta R.T. -0.012 min
Lab File: BM049976.D
Acq: 18 Apr 2025 21:41

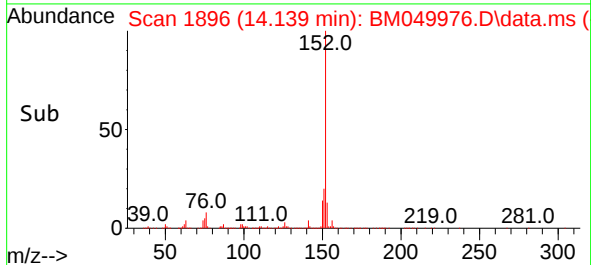
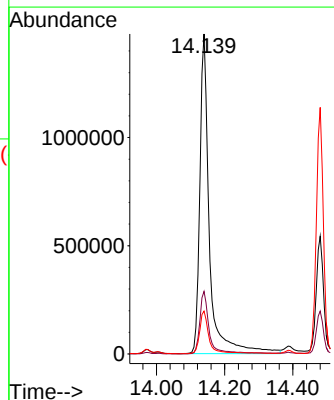
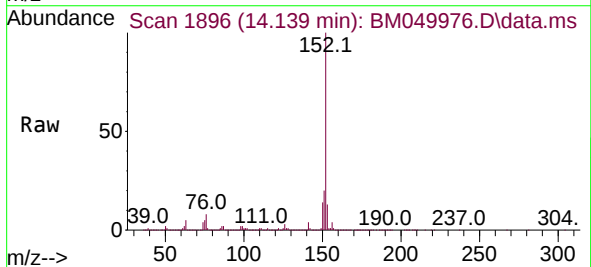
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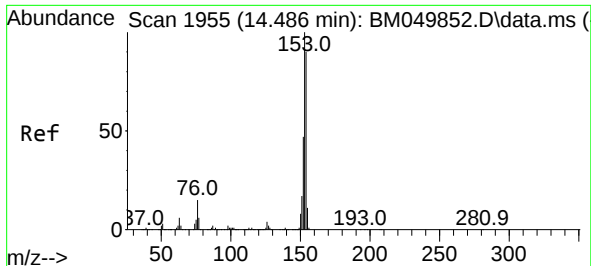
Tgt Ion:172 Resp: 512491
Ion Ratio Lower Upper
172 100
171 34.2 27.4 41.2
170 23.0 18.6 28.0



#49
Acenaphthylene
Concen: 26.593 ng
RT: 14.139 min Scan# 1896
Delta R.T. -0.006 min
Lab File: BM049976.D
Acq: 18 Apr 2025 21:41

Tgt Ion:152 Resp: 2888896
Ion Ratio Lower Upper
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151 19.6 15.7 23.5
153 13.4 10.4 15.6

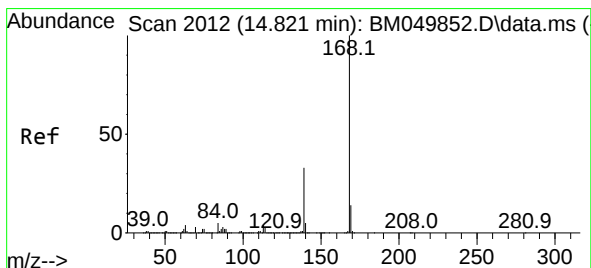
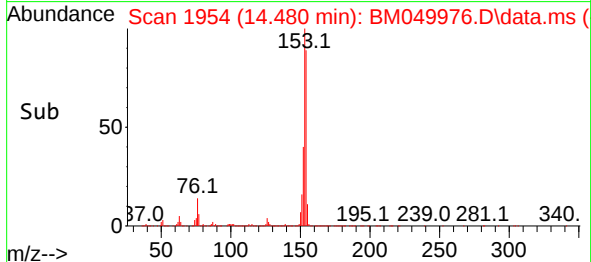
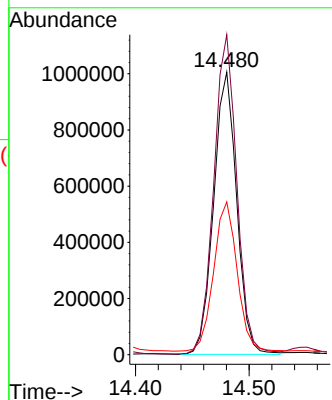
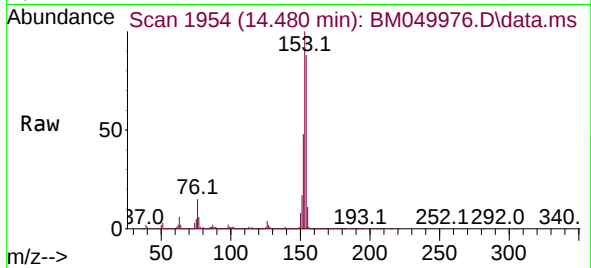




#52
Acenaphthene
Concen: 20.477 ng
RT: 14.480 min Scan# 1955
Delta R.T. -0.006 min
Lab File: BM049976.D
Acq: 18 Apr 2025 21:41

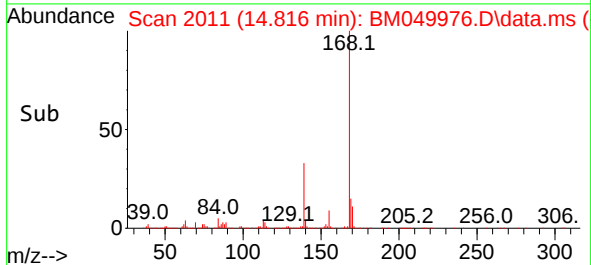
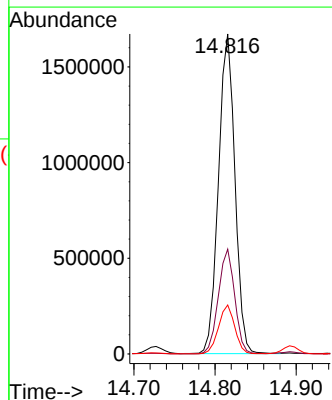
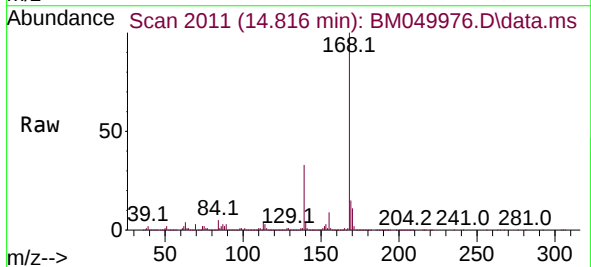
Instrument :
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ClientSampleId :
PL-714-COMP-6

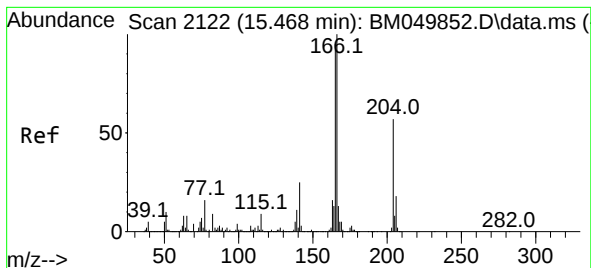
Tgt Ion:154 Resp: 1415003
Ion Ratio Lower Upper
154 100
153 113.3 89.3 133.9
152 54.1 42.2 63.2



#55
Dibenzofuran
Concen: 20.430 ng
RT: 14.816 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BM049976.D
Acq: 18 Apr 2025 21:41

Tgt Ion:168 Resp: 2359979
Ion Ratio Lower Upper
168 100
139 32.8 26.6 39.8
169 15.3 11.0 16.4





#58

Fluorene

Concen: 53.426 ng

RT: 15.468 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM049976.D

Acq: 18 Apr 2025 21:41

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-6

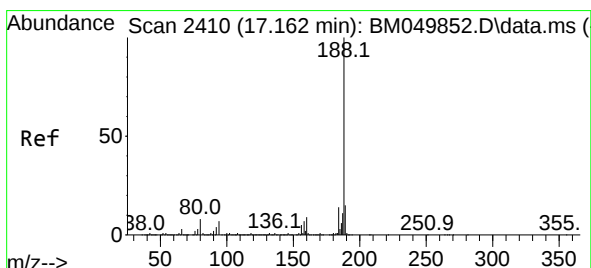
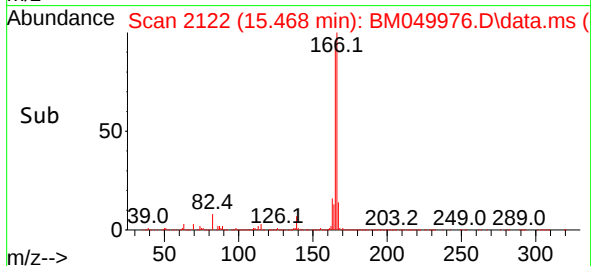
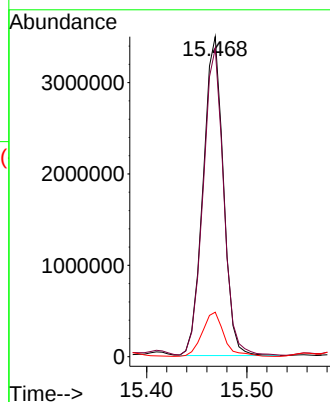
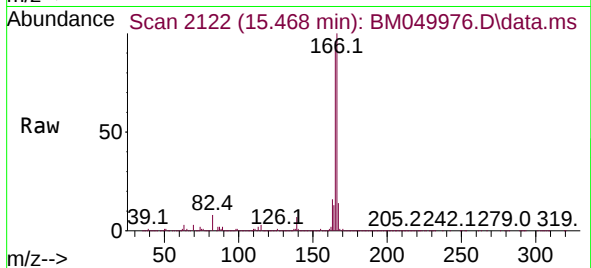
Tgt Ion:166 Resp: 4905662

Ion Ratio Lower Upper

166 100

165 96.3 76.3 114.5

167 13.9 10.7 16.1



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.168 min Scan# 2411

Delta R.T. 0.006 min

Lab File: BM049976.D

Acq: 18 Apr 2025 21:41

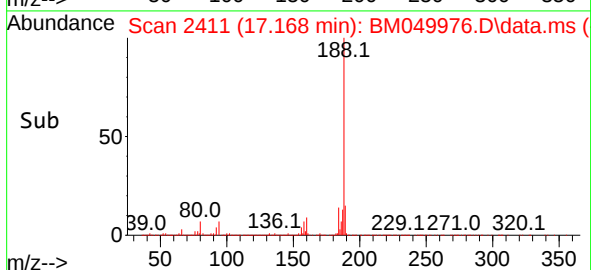
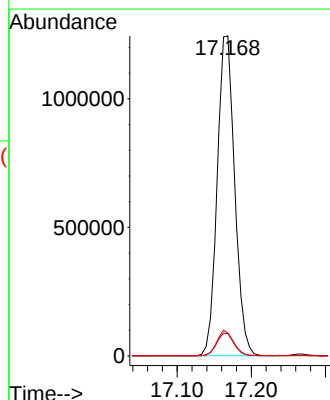
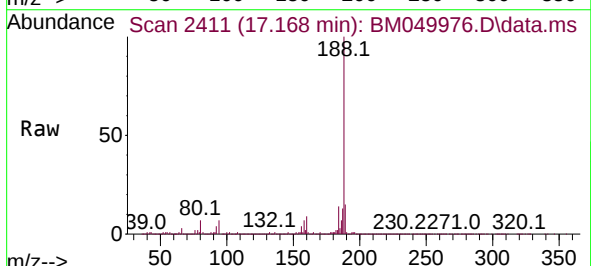
Tgt Ion:188 Resp: 2040152

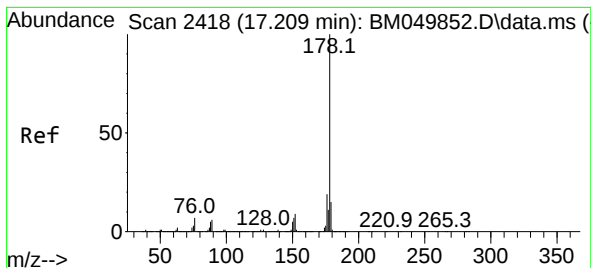
Ion Ratio Lower Upper

188 100

94 7.0 5.8 8.6

80 7.1 6.4 9.6





#71

Phenanthrene

Concen: 196.245 ng m

RT: 17.204 min Scan# 2418

Delta R.T. -0.006 min

Lab File: BM049976.D

Acq: 18 Apr 2025 21:41

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-6

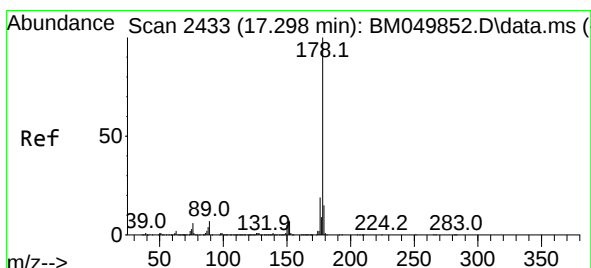
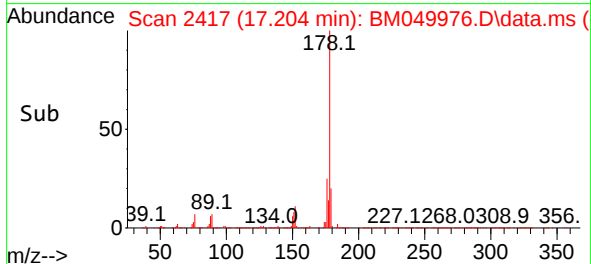
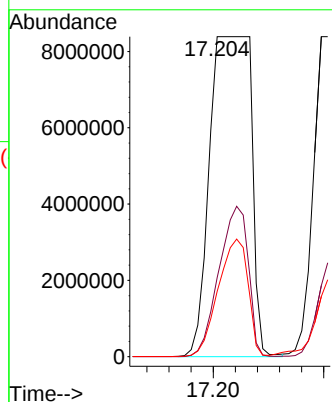
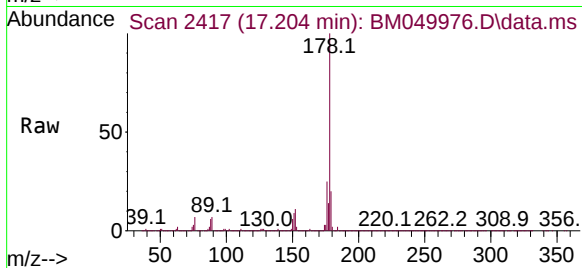
Tgt Ion:178 Resp:21949889

Ion Ratio Lower Upper

178 100

176 24.7 15.4 23.2#

179 20.4 12.3 18.5#



#72

Anthracene

Concen: 135.171 ng

RT: 17.298 min Scan# 2433

Delta R.T. 0.000 min

Lab File: BM049976.D

Acq: 18 Apr 2025 21:41

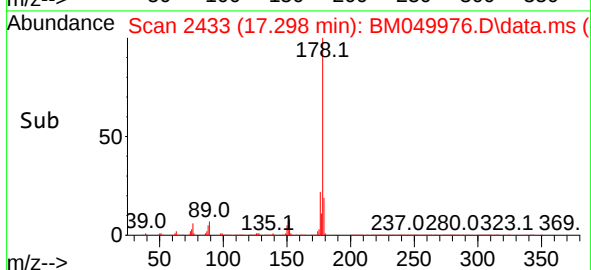
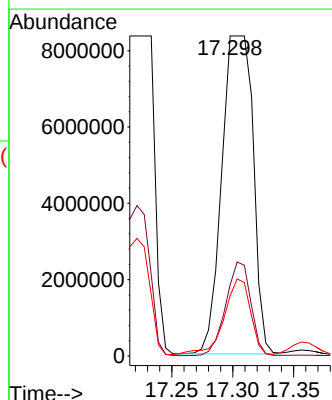
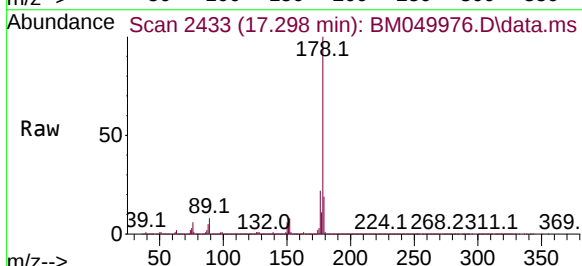
Tgt Ion:178 Resp:14899235

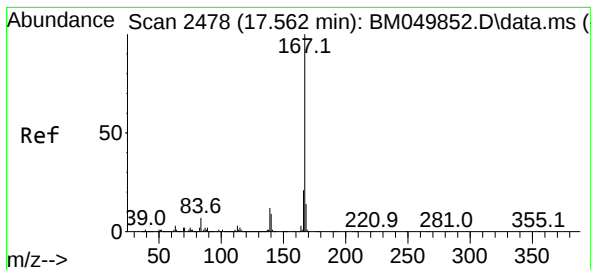
Ion Ratio Lower Upper

178 100

176 22.2 15.1 22.7

179 18.8 12.4 18.6#





#73

Carbazole

Concen: 16.293 ng

RT: 17.568 min Scan# 24

Delta R.T. 0.006 min

Lab File: BM049976.D

Acq: 18 Apr 2025 21:41

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-6

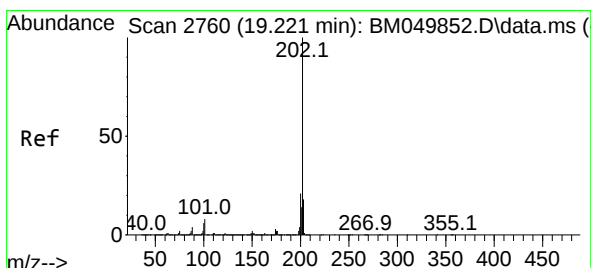
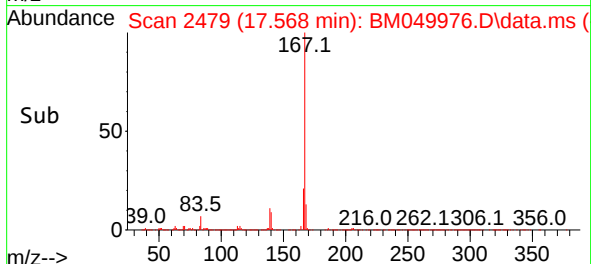
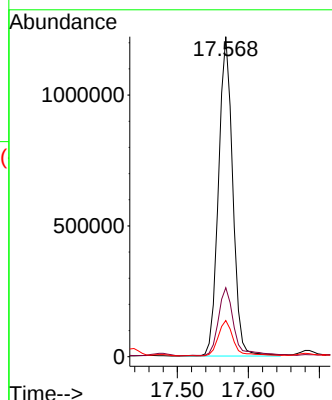
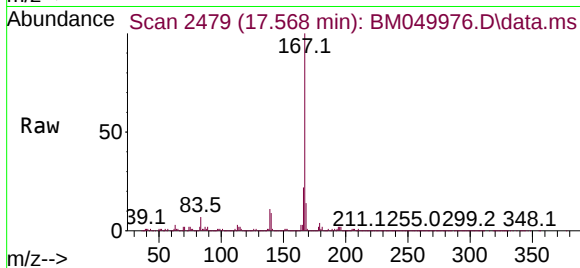
Tgt Ion:167 Resp: 1691482

Ion Ratio Lower Upper

167 100

166 21.6 16.9 25.3

139 11.3 9.3 13.9



#75

Fluoranthene

Concen: 194.121 ng m

RT: 19.221 min Scan# 2760

Delta R.T. 0.000 min

Lab File: BM049976.D

Acq: 18 Apr 2025 21:41

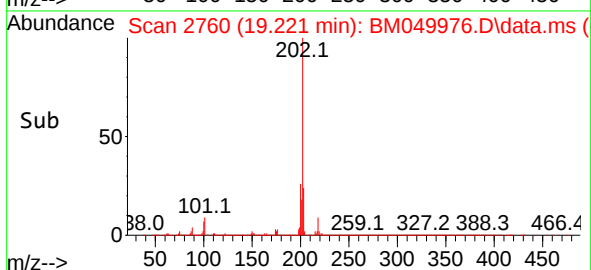
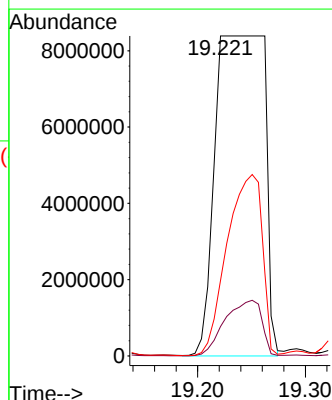
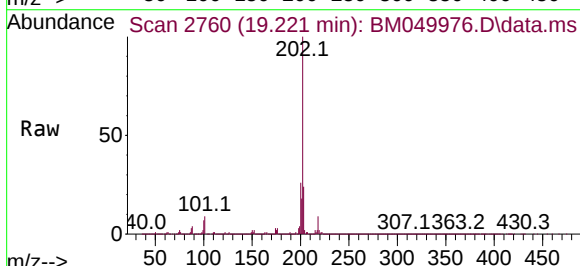
Tgt Ion:202 Resp:26696217

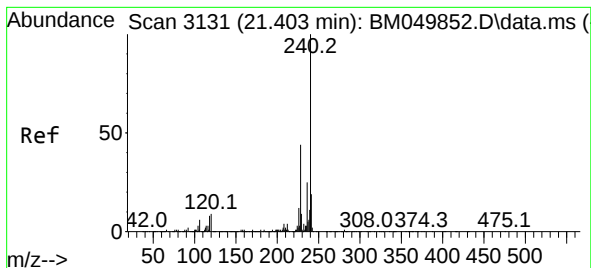
Ion Ratio Lower Upper

202 100

101 9.2 0.0 28.4

203 23.6 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.421 min Scan# 31

Delta R.T. 0.018 min

Lab File: BM049976.D

Acq: 18 Apr 2025 21:41

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-6

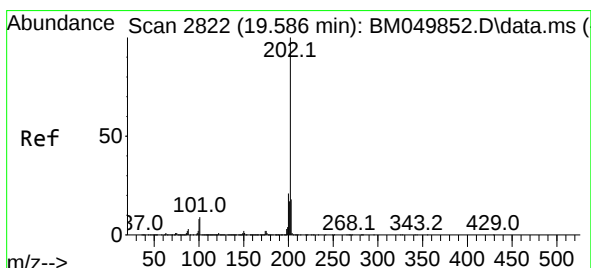
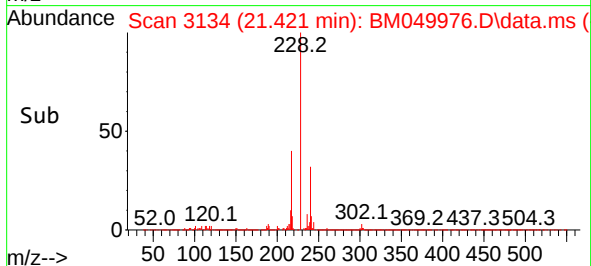
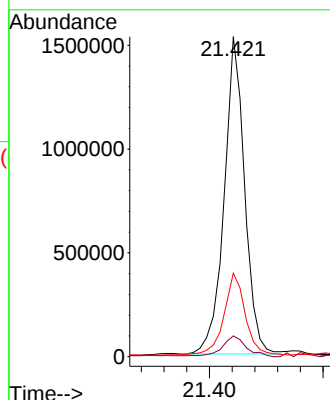
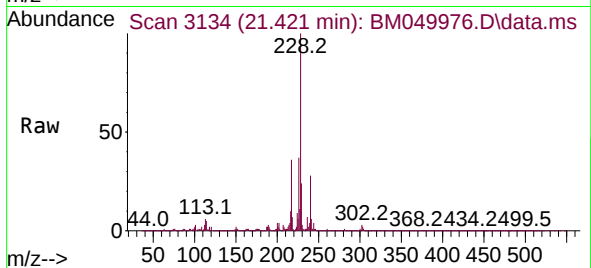
Tgt Ion:240 Resp: 1912373

Ion Ratio Lower Upper

240 100

120 6.5 6.9 10.3#

236 26.1 20.4 30.6



#78

Pyrene

Concen: 192.534 ng m

RT: 19.586 min Scan# 2822

Delta R.T. 0.000 min

Lab File: BM049976.D

Acq: 18 Apr 2025 21:41

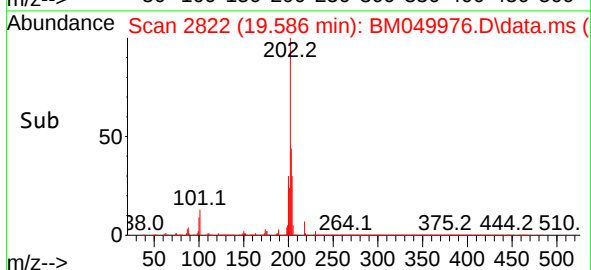
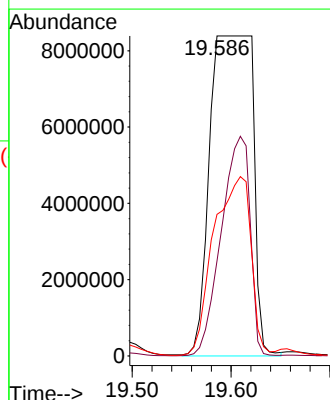
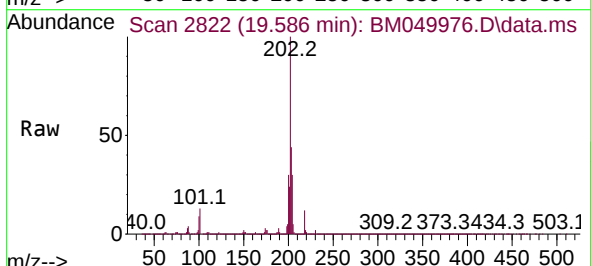
Tgt Ion:202 Resp:25375440

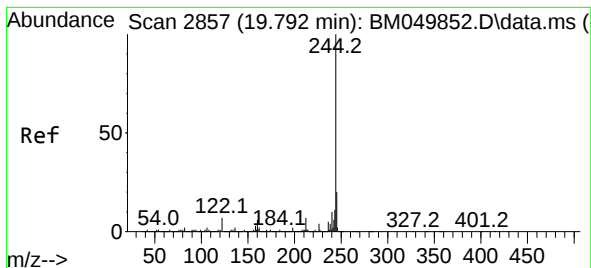
Ion Ratio Lower Upper

202 100

200 29.7 16.5 24.7#

203 44.2 14.0 21.0#





#79

Terphenyl-d14

Concen: 5.798 ng

RT: 19.786 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM049976.D

Acq: 18 Apr 2025 21:41

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-6

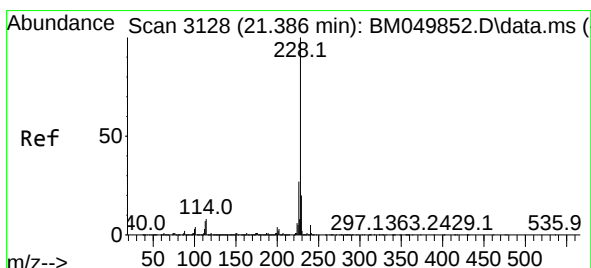
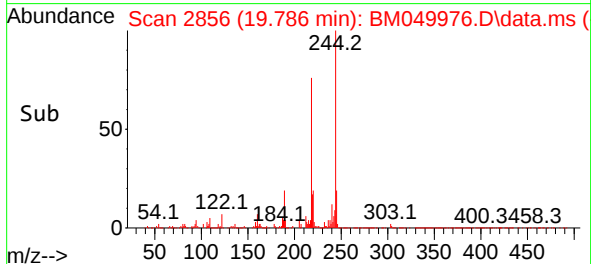
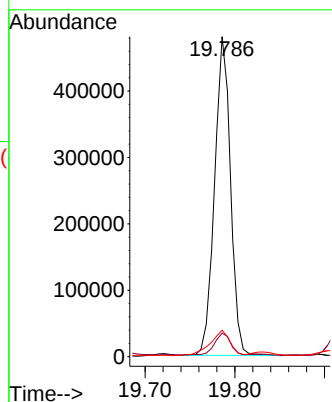
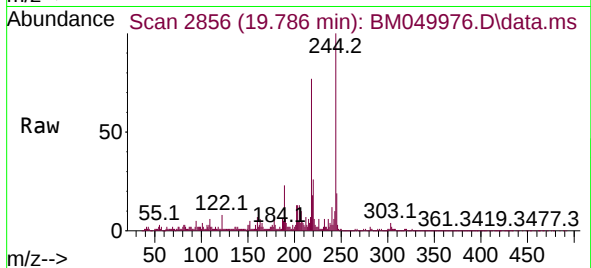
Tgt Ion:244 Resp: 591690

Ion Ratio Lower Upper

244 100

212 7.4 5.5 8.3

122 8.2 5.4 8.0#



#81

Benzo(a)anthracene

Concen: 181.956 ng m

RT: 21.392 min Scan# 3129

Delta R.T. 0.006 min

Lab File: BM049976.D

Acq: 18 Apr 2025 21:41

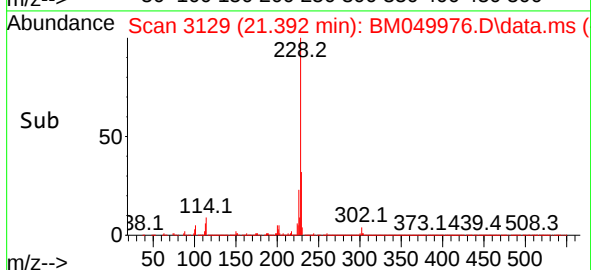
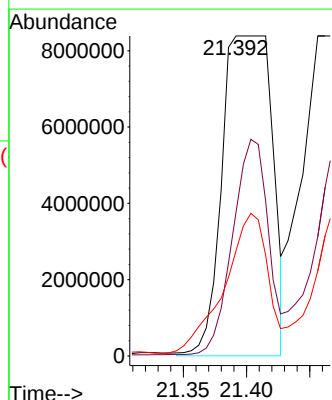
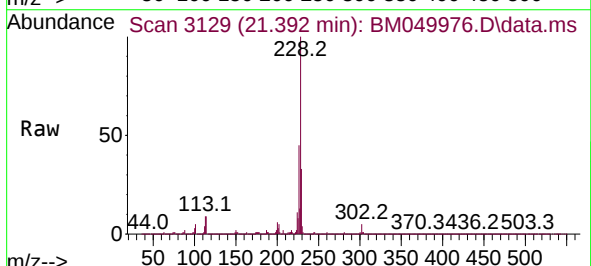
Tgt Ion:228 Resp:23125829

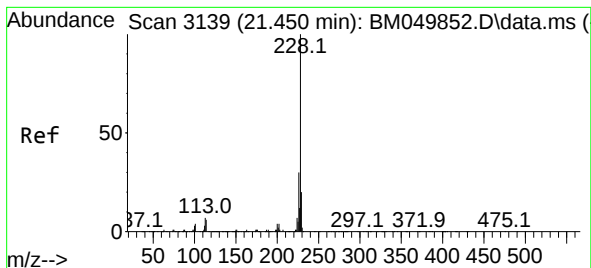
Ion Ratio Lower Upper

228 100

226 45.0 21.8 32.8#

229 32.9 15.8 23.8#





#83

Chrysene

Concen: 188.029 ng m

RT: 21.456 min Scan# 31

Delta R.T. 0.006 min

Lab File: BM049976.D

Acq: 18 Apr 2025 21:41

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-6

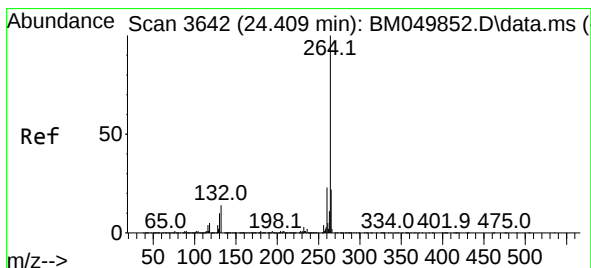
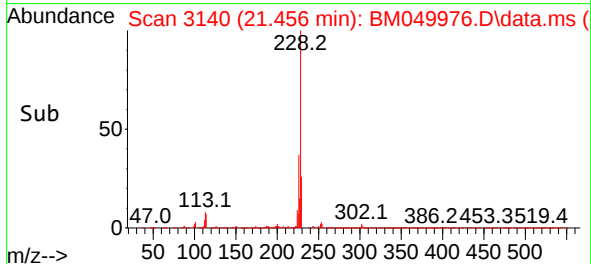
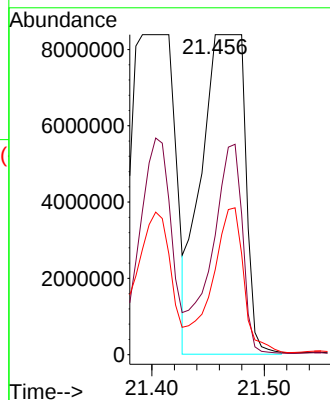
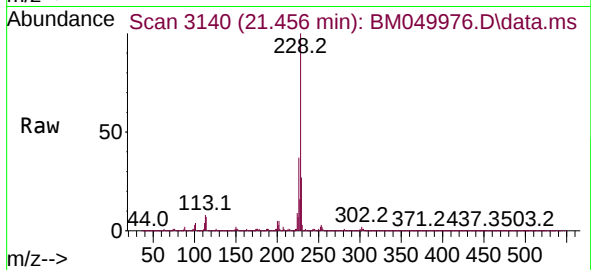
Tgt Ion:228 Resp:22719673

Ion Ratio Lower Upper

228 100

226 37.3 24.1 36.1#

229 26.6 15.8 23.6#



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.433 min Scan# 3646

Delta R.T. 0.024 min

Lab File: BM049976.D

Acq: 18 Apr 2025 21:41

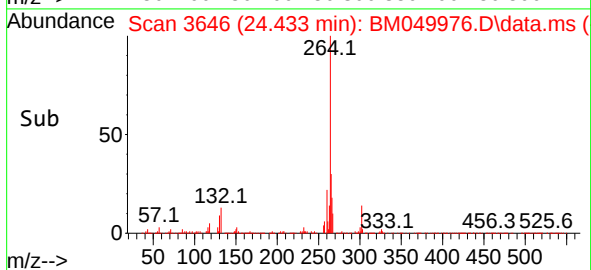
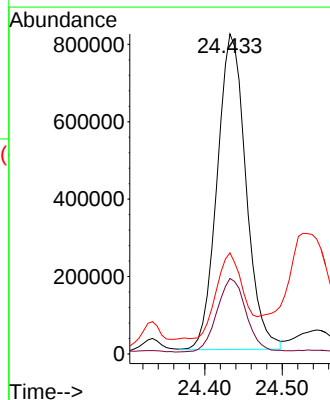
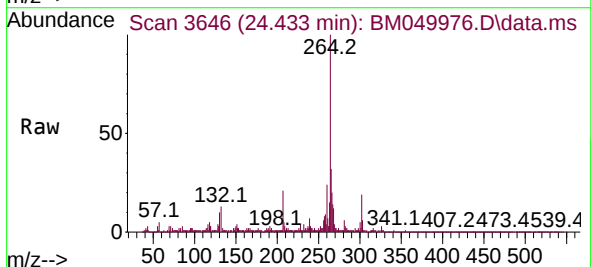
Tgt Ion:264 Resp: 2110485

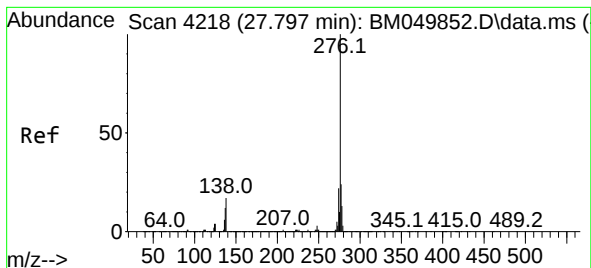
Ion Ratio Lower Upper

264 100

260 23.6 18.6 28.0

265 31.6 17.8 26.8#





#87

Indeno(1,2,3-cd)pyrene

Concen: 111.665 ng

RT: 27.891 min Scan# 41

Delta R.T. 0.094 min

Lab File: BM049976.D

Acq: 18 Apr 2025 21:41

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-6

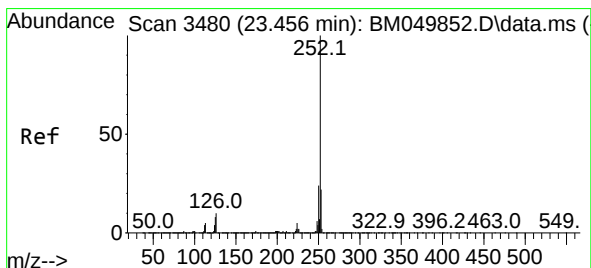
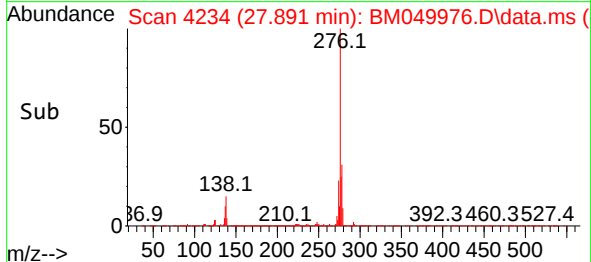
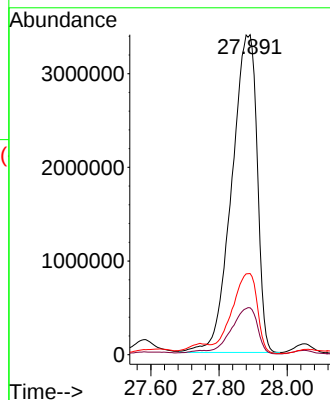
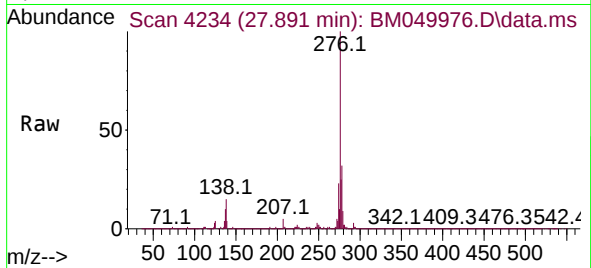
Tgt Ion:276 Resp:17567002

Ion Ratio Lower Upper

276 100

138 14.8 16.8 25.2#

277 24.9 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 258.995 ng m

RT: 23.491 min Scan# 3486

Delta R.T. 0.035 min

Lab File: BM049976.D

Acq: 18 Apr 2025 21:41

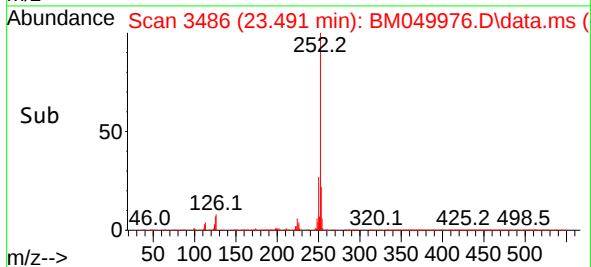
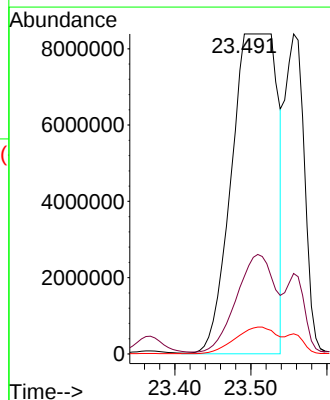
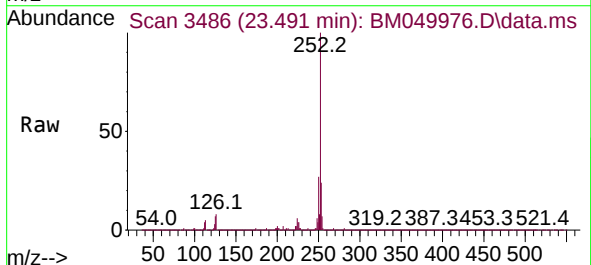
Tgt Ion:252 Resp:34909589

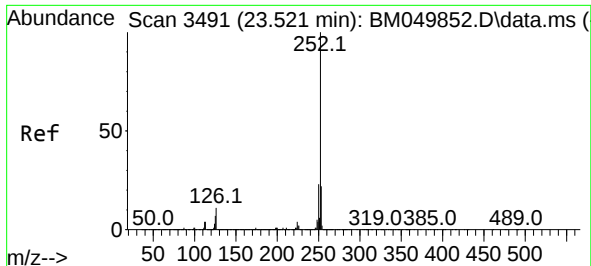
Ion Ratio Lower Upper

252 100

253 24.3 17.5 26.3

125 6.7 6.2 9.4

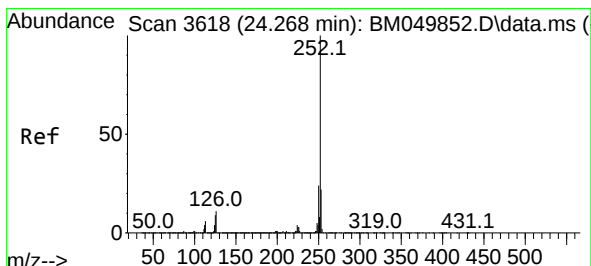
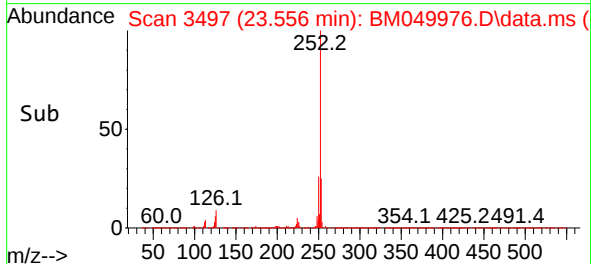
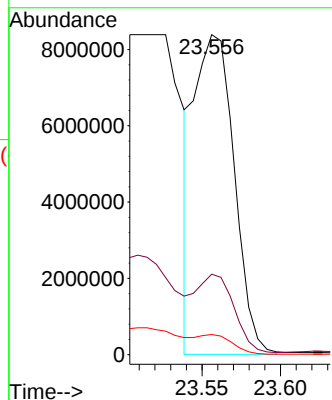
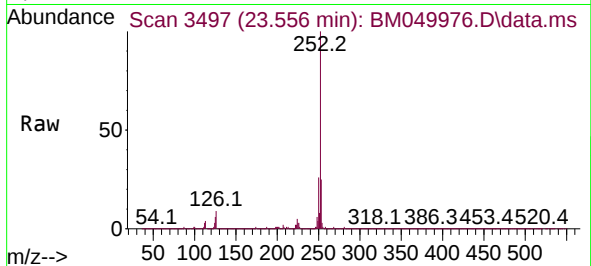




#89
Benzo(k)fluoranthene
Concen: 114.206 ng m
RT: 23.556 min Scan# 3497
Delta R.T. 0.035 min
Lab File: BM049976.D
Acq: 18 Apr 2025 21:41

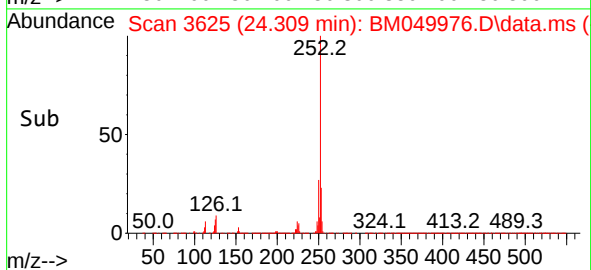
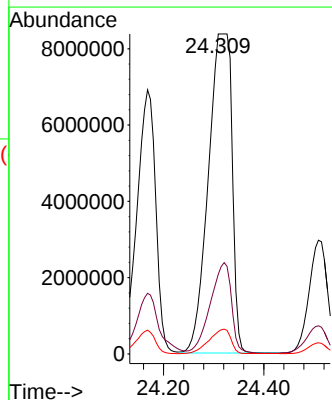
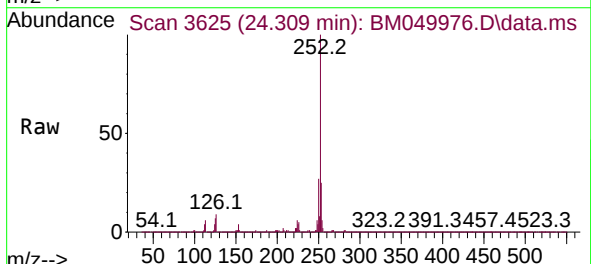
Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-6

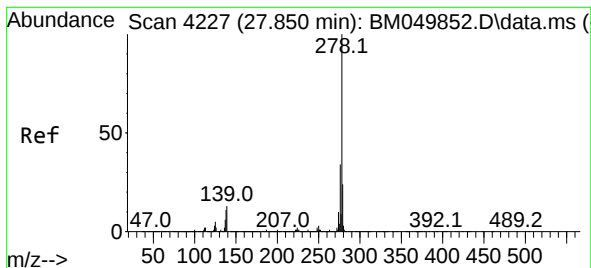
Tgt Ion:252 Resp:14917620
Ion Ratio Lower Upper
252 100
253 25.1 17.4 26.2
125 6.3 5.8 8.8



#90
Benzo(a)pyrene
Concen: 231.957 ng
RT: 24.309 min Scan# 3625
Delta R.T. 0.041 min
Lab File: BM049976.D
Acq: 18 Apr 2025 21:41

Tgt Ion:252 Resp:27473766
Ion Ratio Lower Upper
252 100
253 24.9 17.8 26.8
125 7.0 7.0 10.4





#91

Dibenzo(a,h)anthracene

Concen: 38.219 ng

RT: 27.909 min Scan# 4415

Delta R.T. 0.059 min

Lab File: BM049976.D

Acq: 18 Apr 2025 21:41

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-6

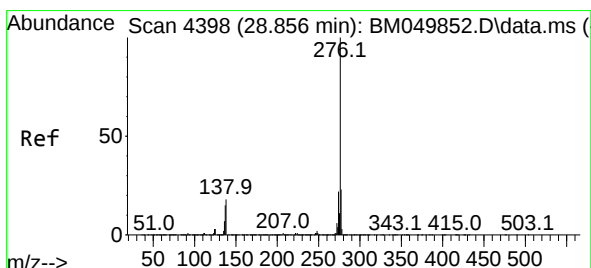
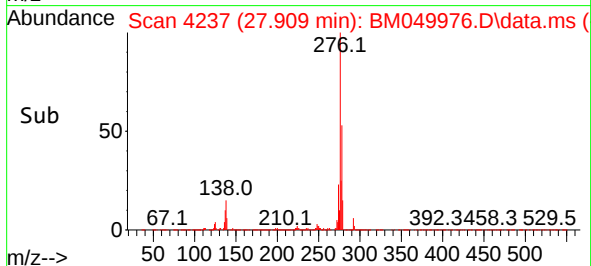
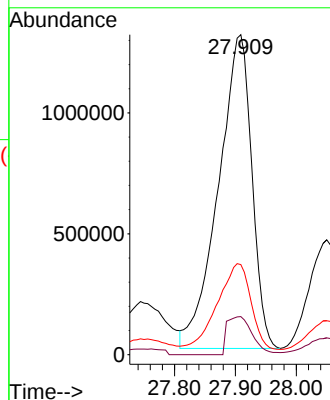
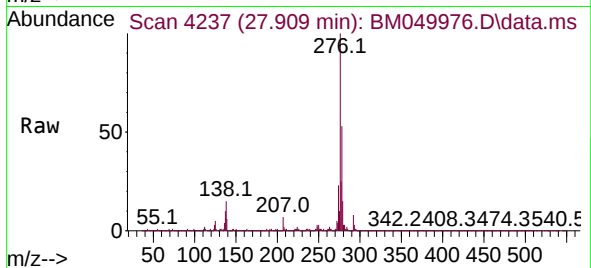
Tgt Ion:278 Resp: 4952400

Ion Ratio Lower Upper

278 100

139 11.9 10.6 15.8

279 28.2 19.1 28.7



#92

Benzo(g,h,i)perylene

Concen: 114.974 ng

RT: 28.956 min Scan# 4415

Delta R.T. 0.100 min

Lab File: BM049976.D

Acq: 18 Apr 2025 21:41

Tgt Ion:276 Resp:15224282

Ion Ratio Lower Upper

276 100

277 24.3 18.7 28.1

138 14.6 14.6 21.8

