

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP042525\
 Data File : BP024429.D
 Acq On : 25 Apr 2025 19:13
 Operator : RC/JU
 Sample : Q1867-01 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 RBR200059

Quant Time: Apr 25 22:52:32 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP041425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 18 12:04:48 2025
 Response via : Initial Calibration

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

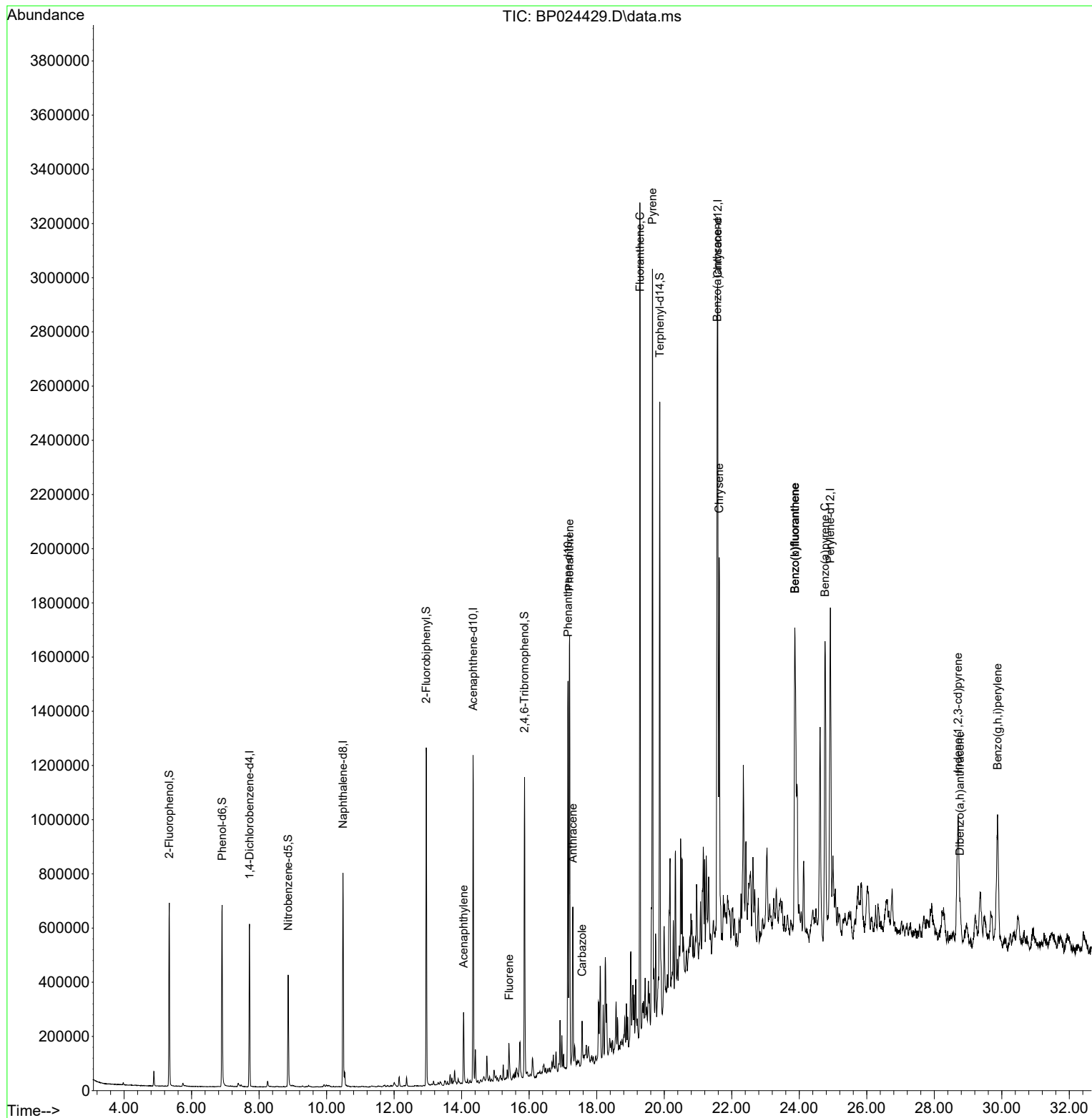
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.716	152	162758	20.000	ng	0.00
21) Naphthalene-d8	10.487	136	660640	20.000	ng	#-0.01
39) Acenaphthene-d10	14.340	164	425421	20.000	ng	-0.01
64) Phenanthrene-d10	17.151	188	878267	20.000	ng	0.00
76) Chrysene-d12	21.586	240	996657	20.000	ng	0.00
86) Perylene-d12	24.921	264	1189864	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.340	112	309207	31.412	ng	0.00
7) Phenol-d6	6.905	99	421375	31.263	ng	0.00
23) Nitrobenzene-d5	8.863	82	240600	20.767	ng	0.00
42) 2,4,6-Tribromophenol	15.863	330	234797	39.891	ng	0.00
45) 2-Fluorobiphenyl	12.951	172	625613	22.516	ng	-0.01
79) Terphenyl-d14	19.869	244	1135273	22.960	ng	0.00
Target Compounds						
						Qvalue
49) Acenaphthylene	14.057	152	215505	5.857	ng	99
58) Fluorene	15.404	166	74836	2.535	ng	98
71) Phenanthrene	17.198	178	1128470	23.553	ng	100
72) Anthracene	17.292	178	408156	8.839	ng	99
73) Carbazole	17.569	167	108899	2.414	ng	97
75) Fluoranthene	19.281	202	1745639	30.634	ng	97
78) Pyrene	19.651	202	1731939	27.344	ng	99
81) Benzo(a)anthracene	21.569	228	1103782	17.818	ng	97
83) Chrysene	21.628	228	992537	16.724	ng	97
87) Indeno(1,2,3-cd)pyrene	28.704	276	808488	9.787	ng	99
88) Benzo(b)fluoranthene	23.874	252	1404234	19.689	ng	98
89) Benzo(k)fluoranthene	23.874	252	1404234	20.383	ng	98
90) Benzo(a)pyrene	24.763	252	1173856	19.080	ng	97
91) Dibenzo(a,h)anthracene	28.762	278	214049	3.122	ng	# 91
92) Benzo(g,h,i)perylene	29.874	276	838717	12.018	ng	96

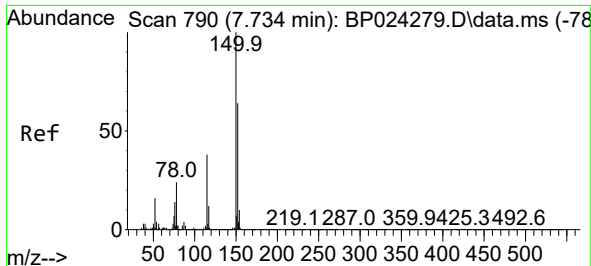
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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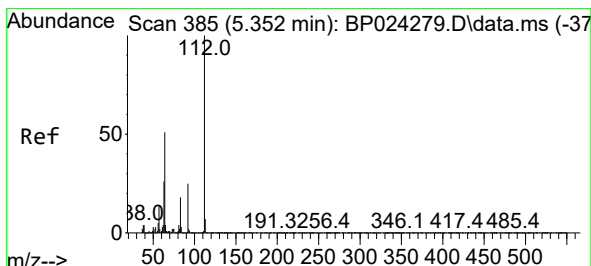
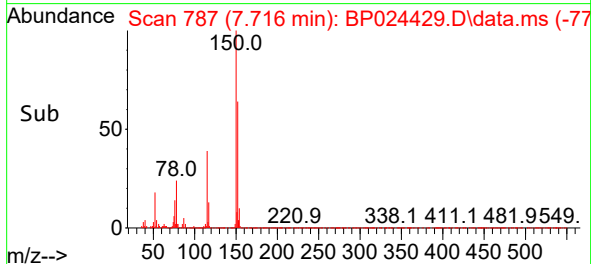
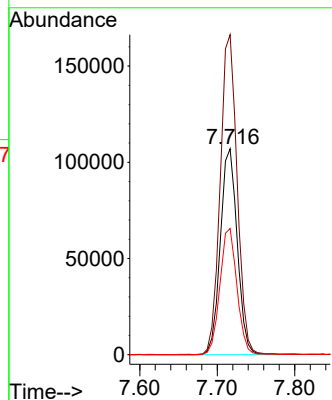
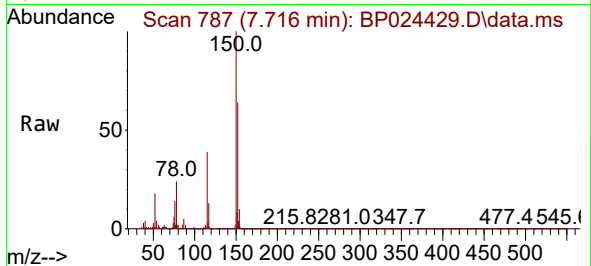




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.716 min Scan# 71
Delta R.T. -0.006 min
Lab File: BP024429.D
Acq: 25 Apr 2025 19:13

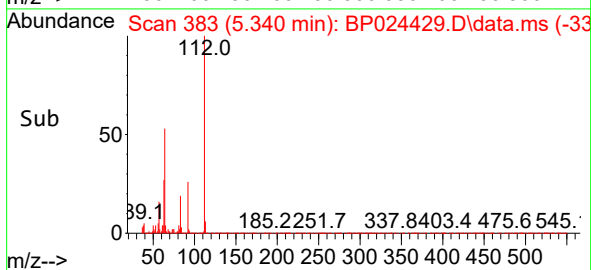
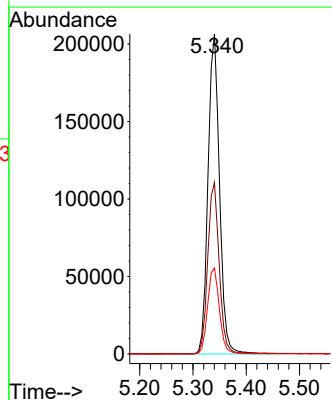
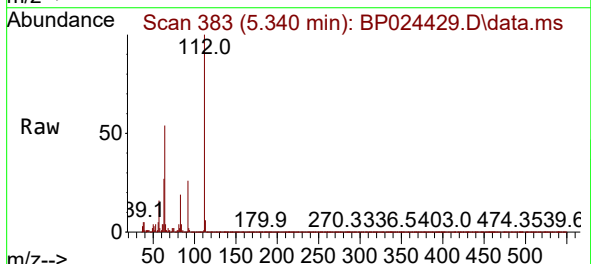
Instrument :
BNA_P
ClientSampleId :
RBR200059

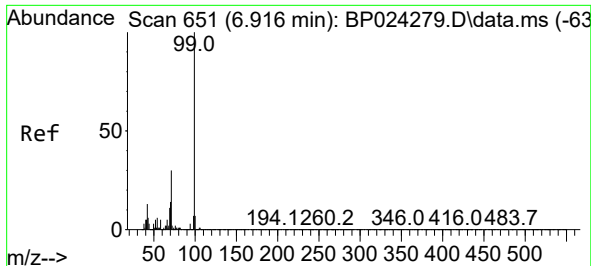
Tgt Ion:152 Resp: 162758
Ion Ratio Lower Upper
152 100
150 155.3 124.9 187.3
115 61.3 47.7 71.5



#5
2-Fluorophenol
Concen: 31.412 ng
RT: 5.340 min Scan# 383
Delta R.T. -0.006 min
Lab File: BP024429.D
Acq: 25 Apr 2025 19:13

Tgt Ion:112 Resp: 309207
Ion Ratio Lower Upper
112 100
64 53.5 41.1 61.7
63 26.9 20.6 30.8

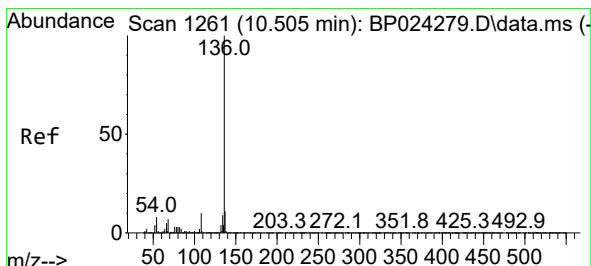
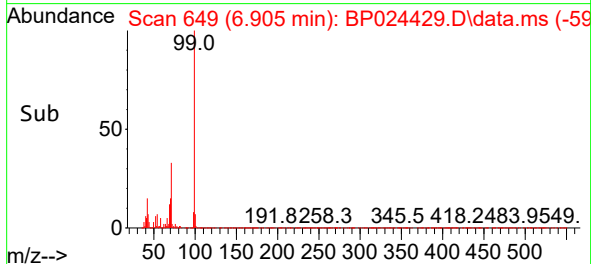
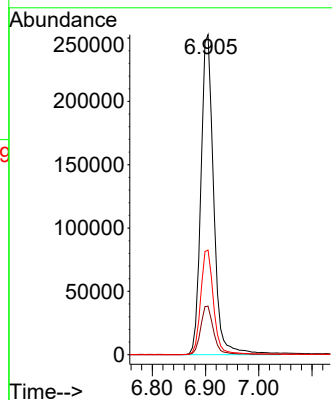
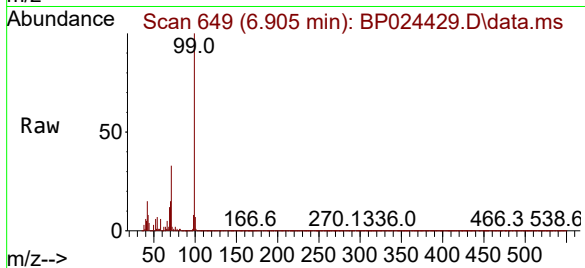




#7
Phenol-d6
Concen: 31.263 ng
RT: 6.905 min Scan# 649
Delta R.T. -0.006 min
Lab File: BP024429.D
Acq: 25 Apr 2025 19:13

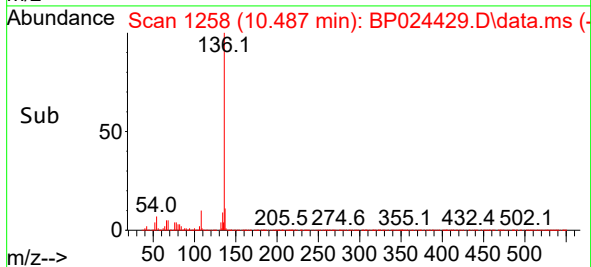
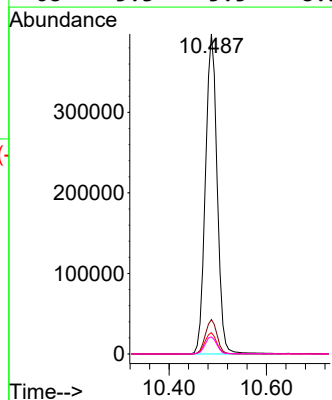
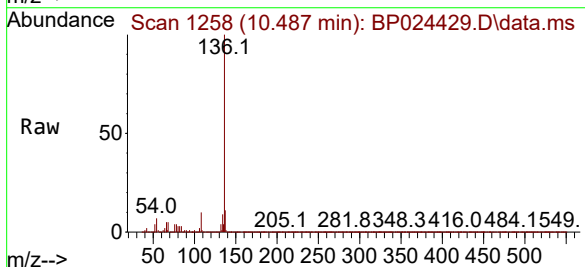
Instrument :
BNA_P
ClientSampleId :
RBR200059

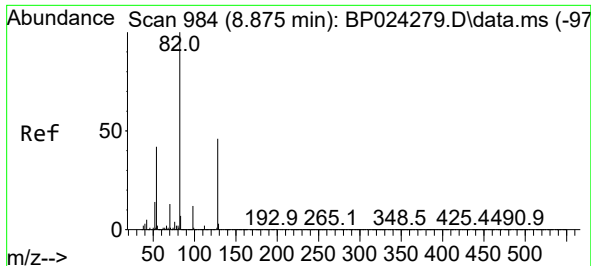
Tgt Ion: 99 Resp: 421375
Ion Ratio Lower Upper
99 100
42 15.2 10.6 16.0
71 32.7 23.7 35.5



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.487 min Scan# 1258
Delta R.T. -0.012 min
Lab File: BP024429.D
Acq: 25 Apr 2025 19:13

Tgt Ion: 136 Resp: 660640
Ion Ratio Lower Upper
136 100
137 10.8 9.2 13.8
54 6.7 6.0 9.0
68 5.3 5.5 8.3

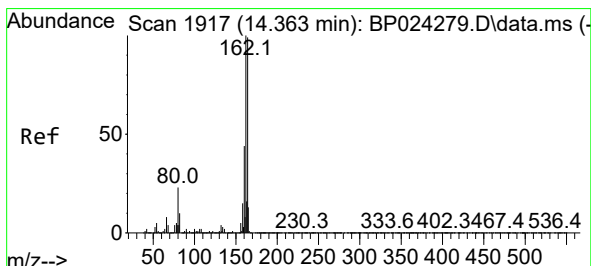
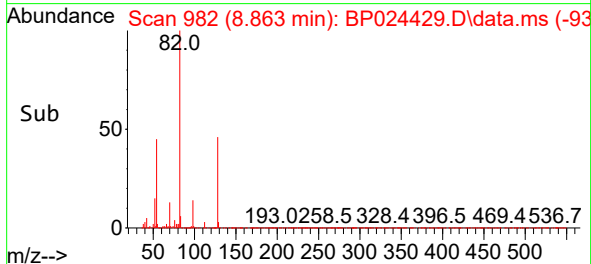
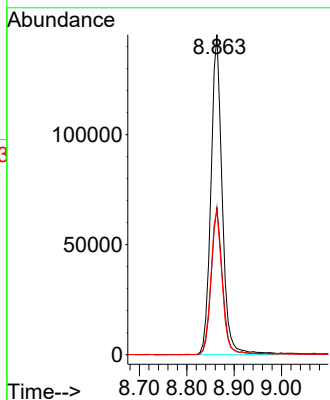
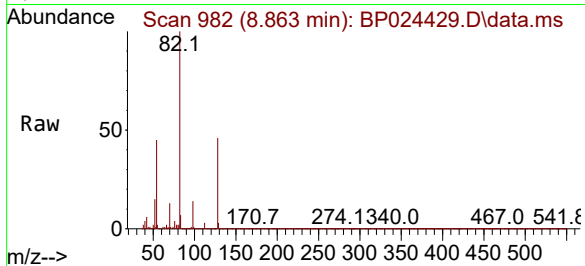




#23
Nitrobenzene-d5
Concen: 20.767 ng
RT: 8.863 min Scan# 91
Delta R.T. -0.006 min
Lab File: BP024429.D
Acq: 25 Apr 2025 19:13

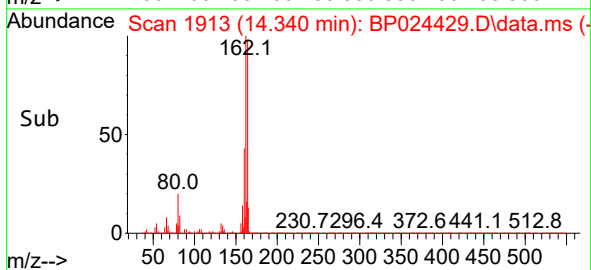
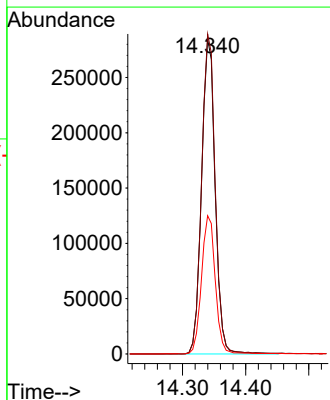
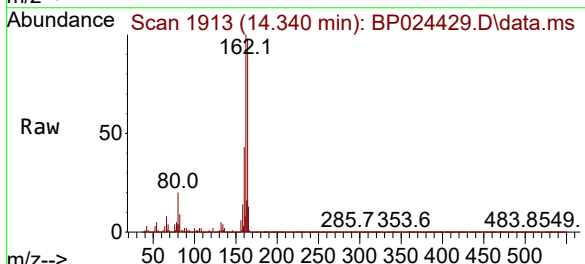
Instrument :
BNA_P
ClientSampleId :
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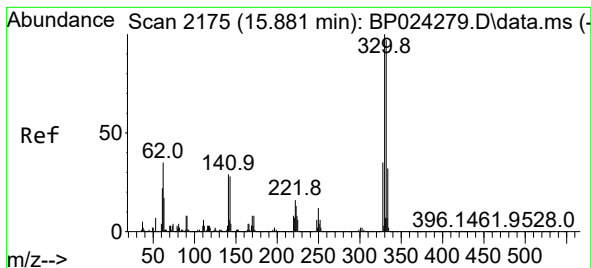
Tgt Ion: 82 Resp: 240600
Ion Ratio Lower Upper
82 100
128 46.0 36.5 54.7
54 45.0 33.4 50.2



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.340 min Scan# 1913
Delta R.T. -0.012 min
Lab File: BP024429.D
Acq: 25 Apr 2025 19:13

Tgt Ion: 164 Resp: 425421
Ion Ratio Lower Upper
164 100
162 101.6 80.6 120.8
160 43.9 35.3 52.9





#42

2,4,6-Tribromophenol

Concen: 39.891 ng

RT: 15.863 min Scan# 2175

Delta R.T. 0.000 min

Lab File: BP024429.D

Acq: 25 Apr 2025 19:13

Instrument :

BNA_P

ClientSampleId :

RBR200059

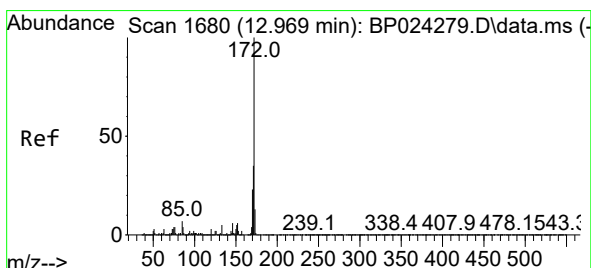
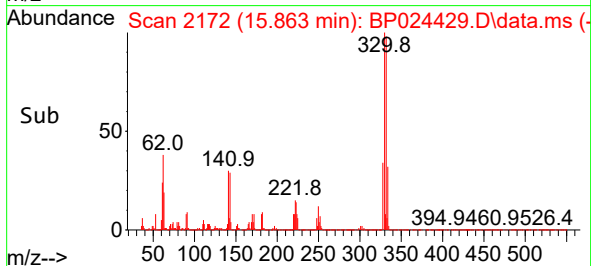
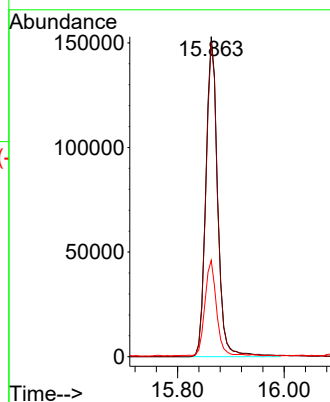
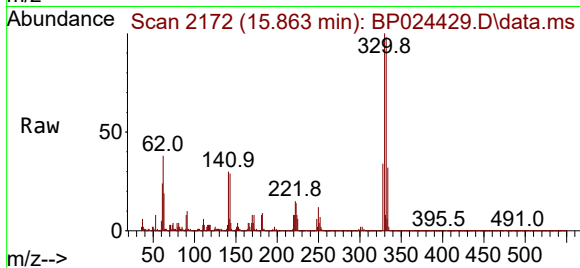
Tgt Ion:330 Resp: 234797

Ion Ratio Lower Upper

330 100

332 97.7 77.1 115.7

141 29.5 24.7 37.1



#45

2-Fluorobiphenyl

Concen: 22.516 ng

RT: 12.951 min Scan# 1677

Delta R.T. -0.012 min

Lab File: BP024429.D

Acq: 25 Apr 2025 19:13

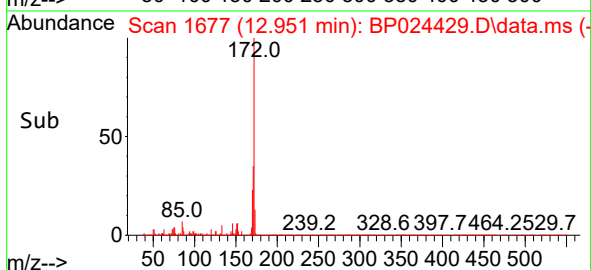
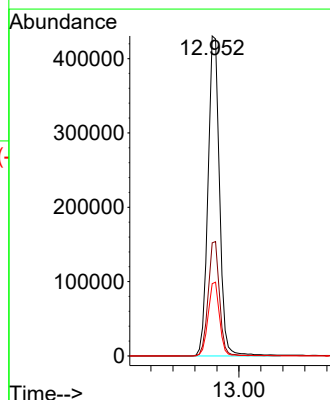
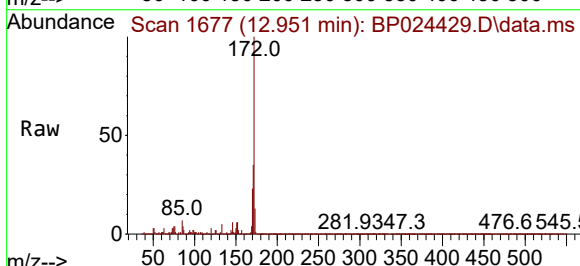
Tgt Ion:172 Resp: 625613

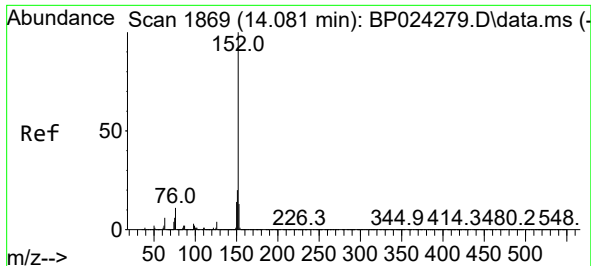
Ion Ratio Lower Upper

172 100

171 35.3 28.2 42.2

170 22.6 18.6 27.8

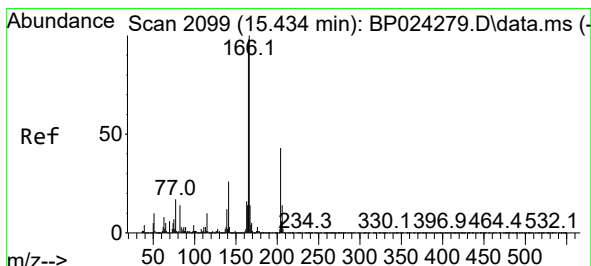
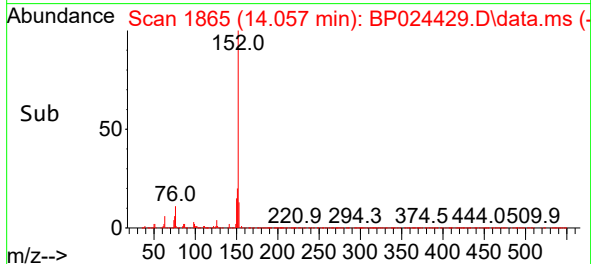
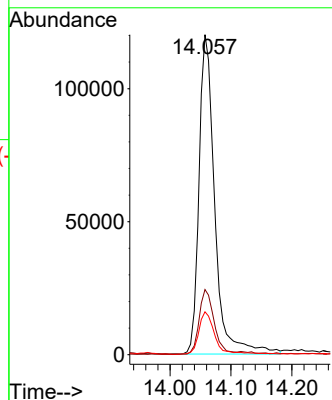
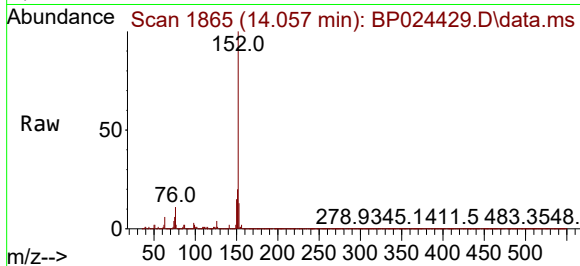




#49
Acenaphthylene
Concen: 5.857 ng
RT: 14.057 min Scan# 1865
Delta R.T. -0.012 min
Lab File: BP024429.D
Acq: 25 Apr 2025 19:13

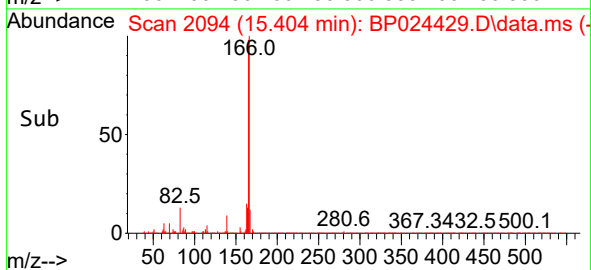
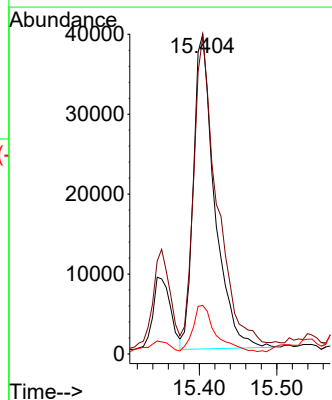
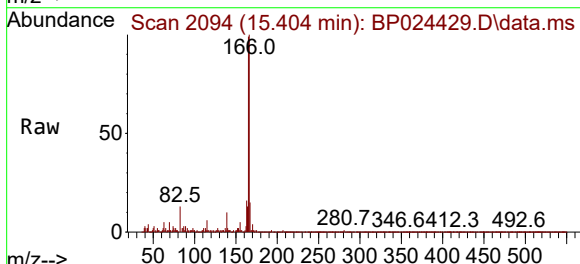
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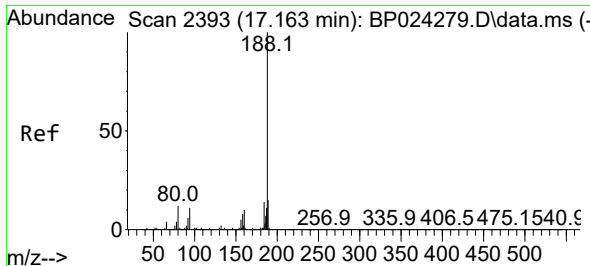
Tgt Ion:152 Resp: 215505
Ion Ratio Lower Upper
152 100
151 20.3 15.9 23.9
153 13.4 10.6 15.8



#58
Fluorene
Concen: 2.535 ng
RT: 15.404 min Scan# 2094
Delta R.T. -0.012 min
Lab File: BP024429.D
Acq: 25 Apr 2025 19:13

Tgt Ion:166 Resp: 74836
Ion Ratio Lower Upper
166 100
165 99.3 78.1 117.1
167 15.1 10.9 16.3

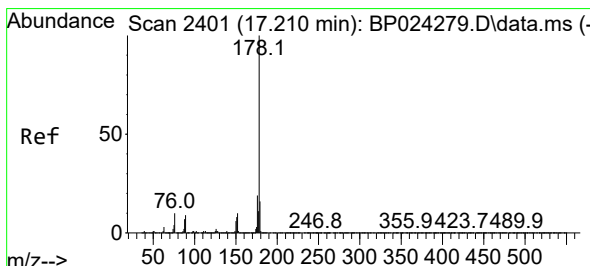
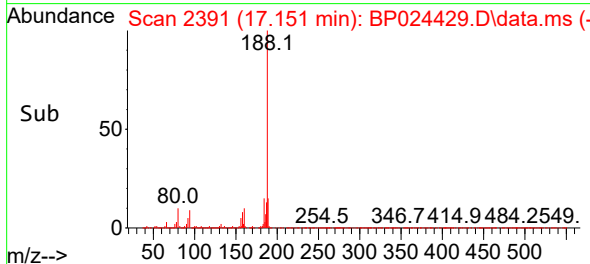
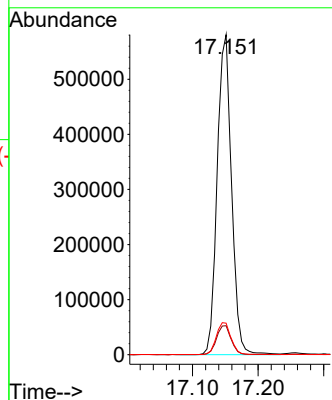
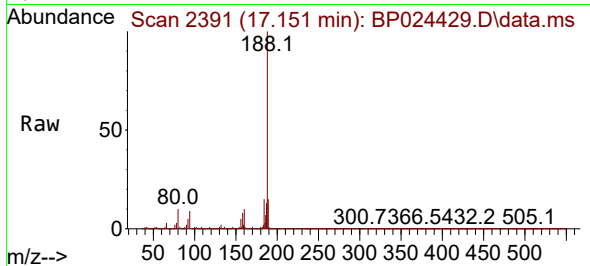




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.151 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024429.D
Acq: 25 Apr 2025 19:13

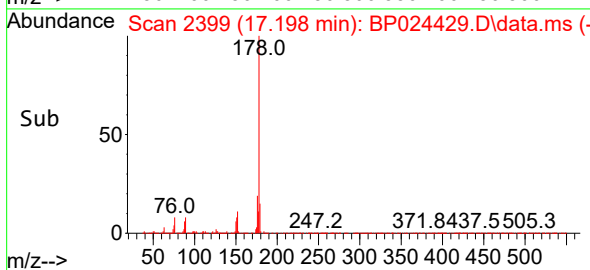
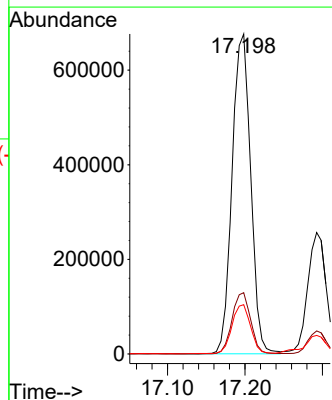
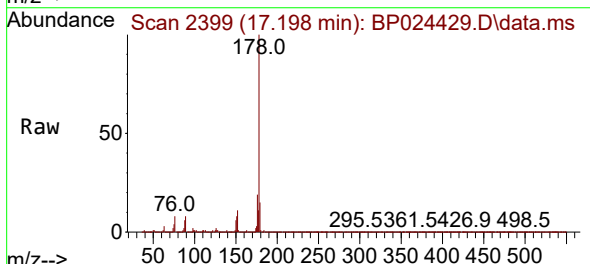
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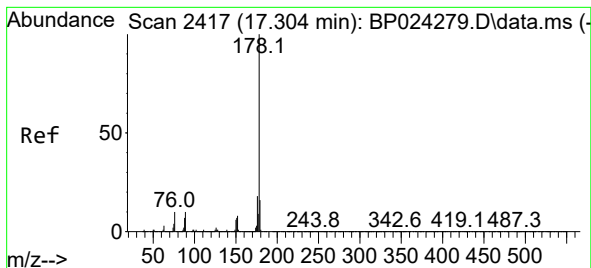
Tgt Ion:188 Resp: 878267
Ion Ratio Lower Upper
188 100
94 9.0 8.6 13.0
80 9.9 9.8 14.6



#71
Phenanthrene
Concen: 23.553 ng
RT: 17.198 min Scan# 2399
Delta R.T. 0.006 min
Lab File: BP024429.D
Acq: 25 Apr 2025 19:13

Tgt Ion:178 Resp: 1128470
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 15.4 12.5 18.7





#72

Anthracene

Concen: 8.839 ng

RT: 17.292 min Scan# 2415

Delta R.T. 0.006 min

Lab File: BP024429.D

Acq: 25 Apr 2025 19:13

Instrument :

BNA_P

ClientSampleId :

RBR200059

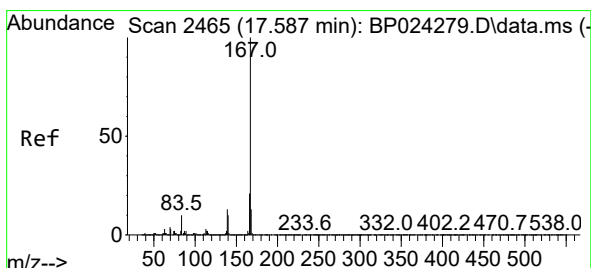
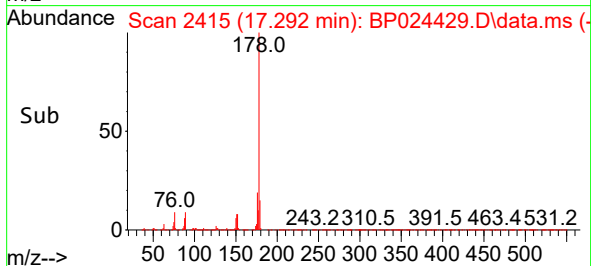
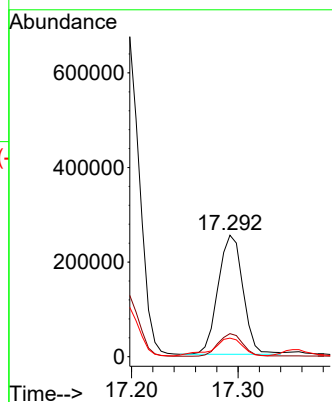
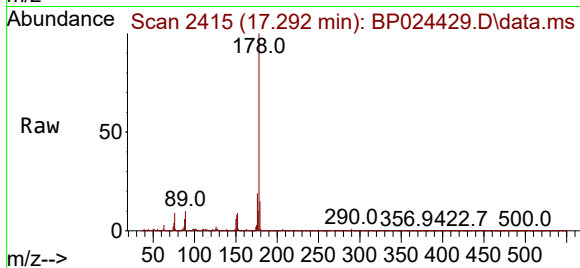
Tgt Ion:178 Resp: 408156

Ion Ratio Lower Upper

178 100

176 18.9 14.7 22.1

179 15.3 12.4 18.6



#73

Carbazole

Concen: 2.414 ng

RT: 17.569 min Scan# 2462

Delta R.T. 0.000 min

Lab File: BP024429.D

Acq: 25 Apr 2025 19:13

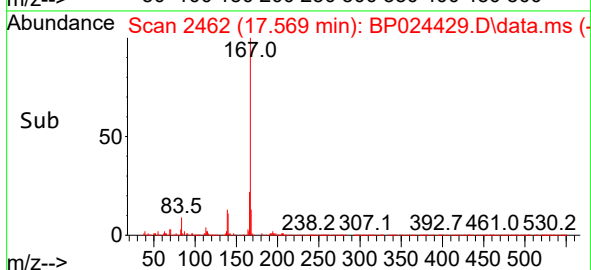
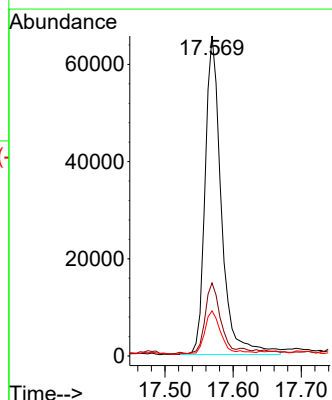
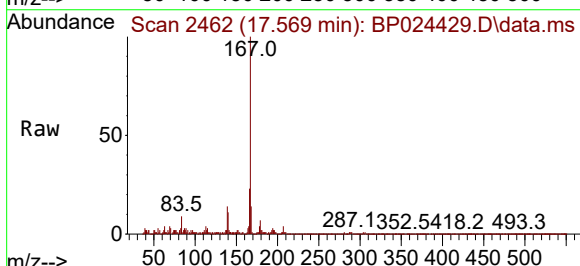
Tgt Ion:167 Resp: 108899

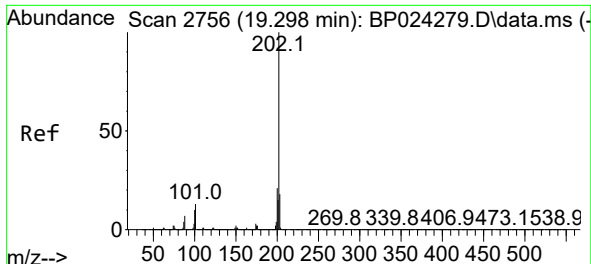
Ion Ratio Lower Upper

167 100

166 22.8 17.1 25.7

139 14.1 10.6 16.0

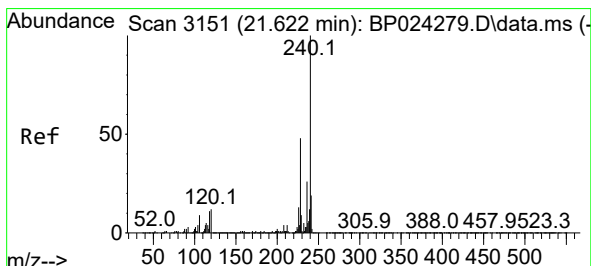
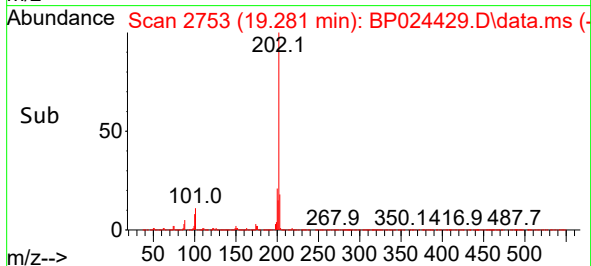
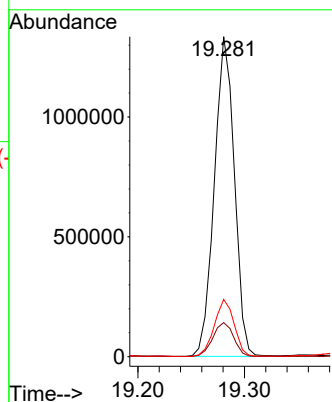
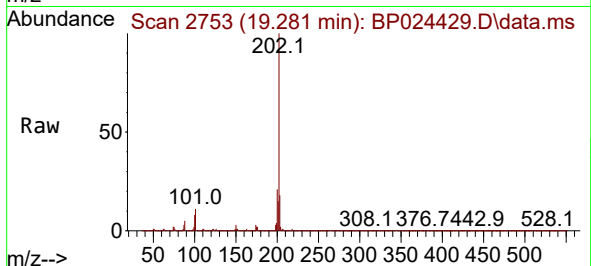




#75
Fluoranthene
Concen: 30.634 ng
RT: 19.281 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP024429.D
Acq: 25 Apr 2025 19:13

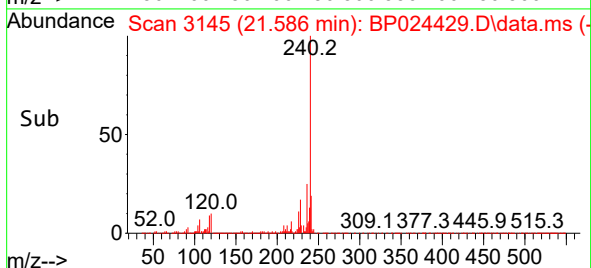
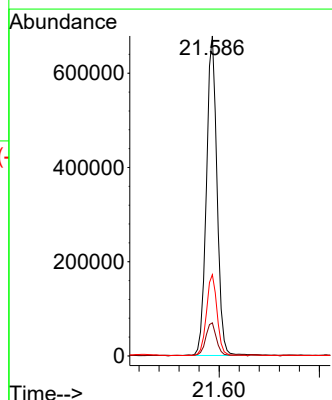
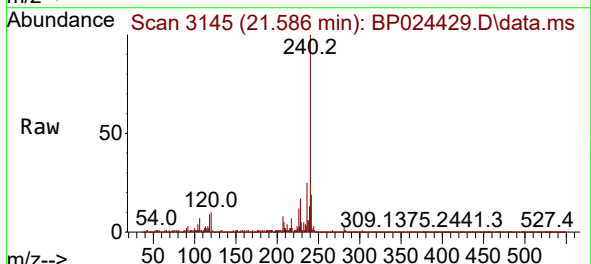
Instrument :
BNA_P
ClientSampleId :
RBR200059

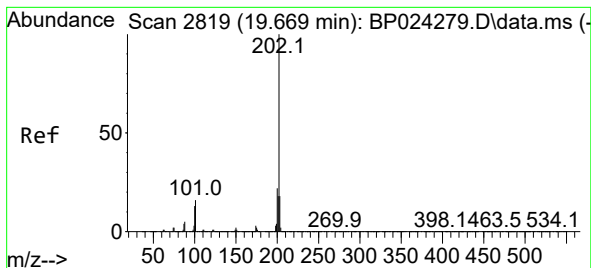
Tgt Ion:202 Resp: 1745639
Ion Ratio Lower Upper
202 100
101 10.7 0.0 33.2
203 17.9 0.0 37.7



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.586 min Scan# 3145
Delta R.T. -0.006 min
Lab File: BP024429.D
Acq: 25 Apr 2025 19:13

Tgt Ion:240 Resp: 996657
Ion Ratio Lower Upper
240 100
120 10.3 9.8 14.8
236 25.4 20.9 31.3





#78

Pyrene

Concen: 27.344 ng

RT: 19.651 min Scan# 2816

Delta R.T. 0.000 min

Lab File: BP024429.D

Acq: 25 Apr 2025 19:13

Instrument :

BNA_P

ClientSampleId :

RBR200059

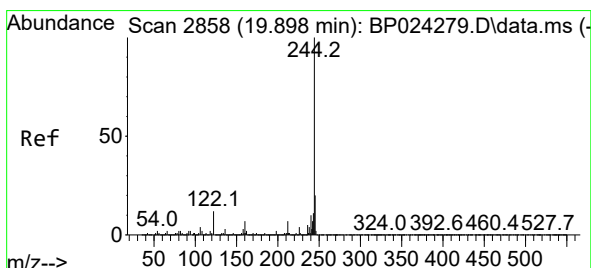
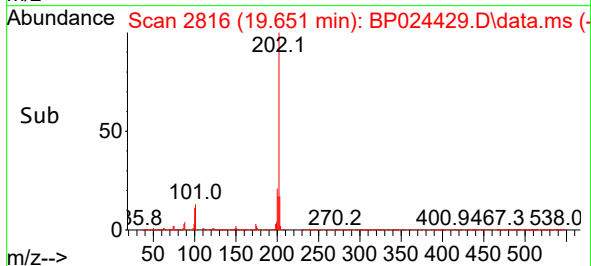
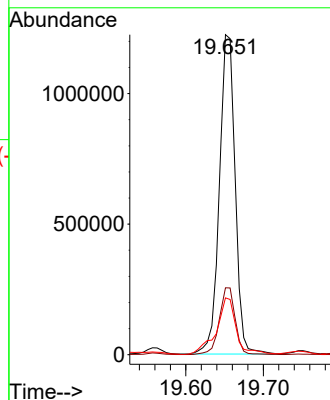
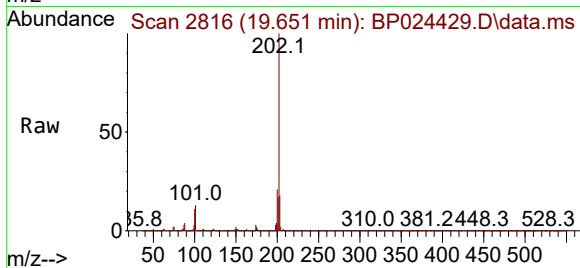
Tgt Ion:202 Resp: 1731939

Ion Ratio Lower Upper

202 100

200 20.9 17.2 25.8

203 17.8 14.4 21.6



#79

Terphenyl-d14

Concen: 22.960 ng

RT: 19.869 min Scan# 2853

Delta R.T. -0.006 min

Lab File: BP024429.D

Acq: 25 Apr 2025 19:13

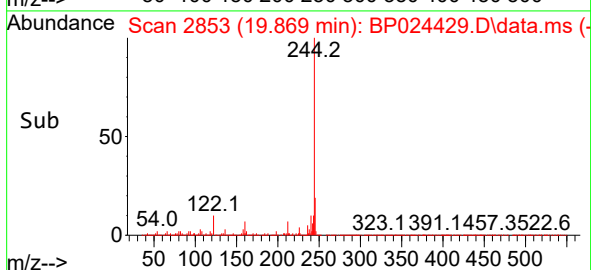
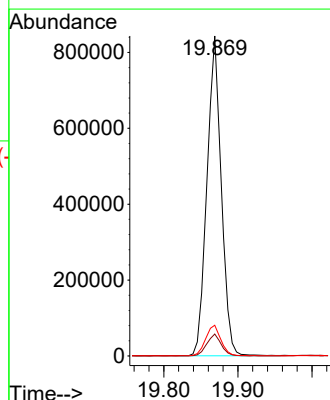
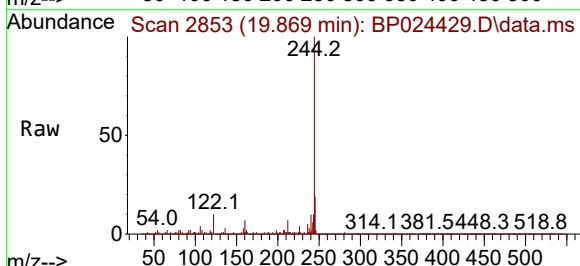
Tgt Ion:244 Resp: 1135273

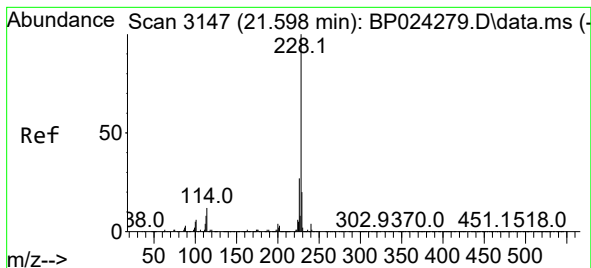
Ion Ratio Lower Upper

244 100

212 6.8 5.6 8.4

122 9.6 9.4 14.0





#81

Benzo(a)anthracene

Concen: 17.818 ng

RT: 21.569 min Scan# 3142

Delta R.T. 0.000 min

Lab File: BP024429.D

Acq: 25 Apr 2025 19:13

Instrument :

BNA_P

ClientSampleId :

RBR200059

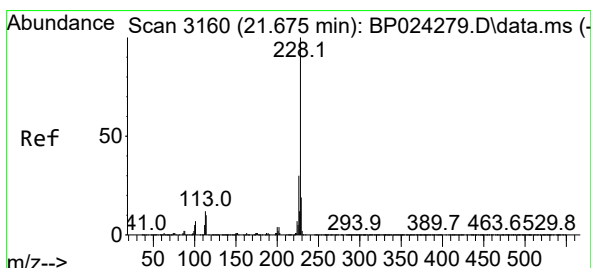
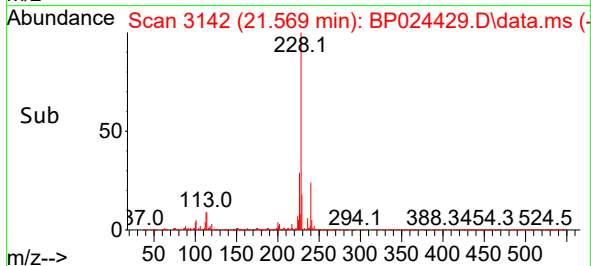
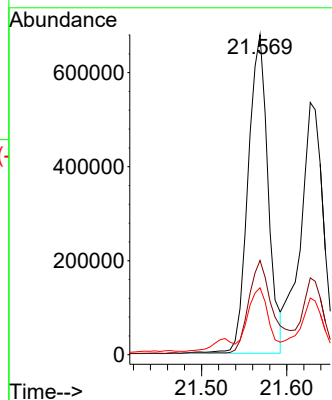
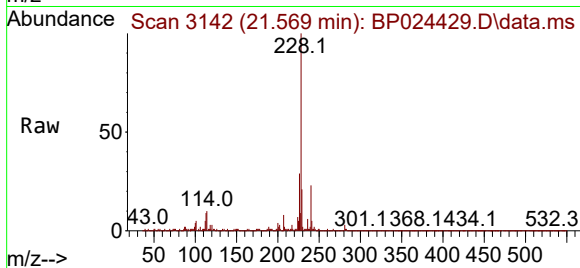
Tgt Ion:228 Resp: 1103782

Ion Ratio Lower Upper

228 100

226 29.5 21.8 32.8

229 20.9 15.9 23.9



#83

Chrysene

Concen: 16.724 ng

RT: 21.628 min Scan# 3152

Delta R.T. -0.012 min

Lab File: BP024429.D

Acq: 25 Apr 2025 19:13

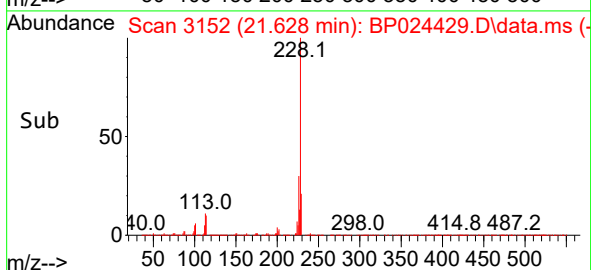
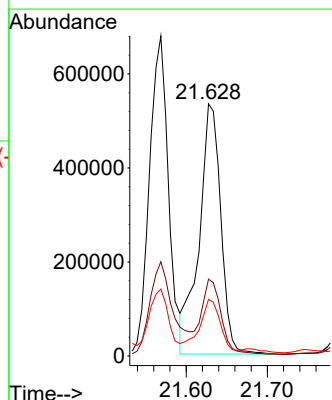
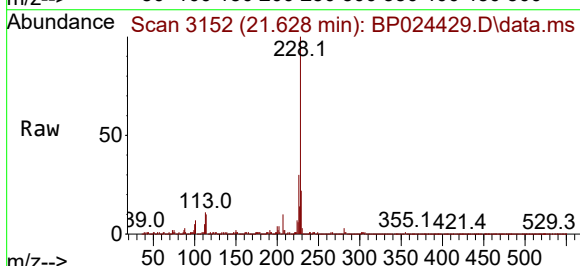
Tgt Ion:228 Resp: 992537

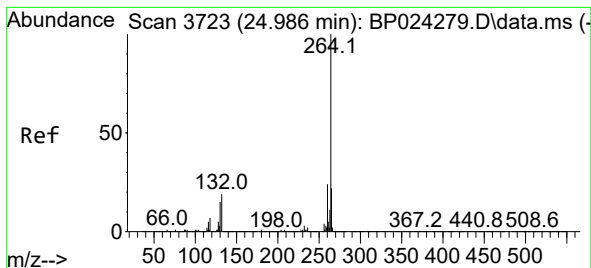
Ion Ratio Lower Upper

228 100

226 30.5 24.2 36.2

229 22.4 15.6 23.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.921 min Scan# 31

Delta R.T. -0.012 min

Lab File: BP024429.D

Acq: 25 Apr 2025 19:13

Instrument :

BNA_P

ClientSampleId :

RBR200059

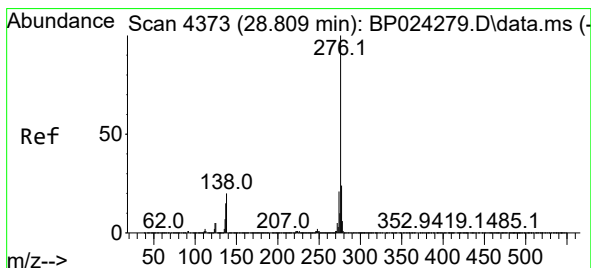
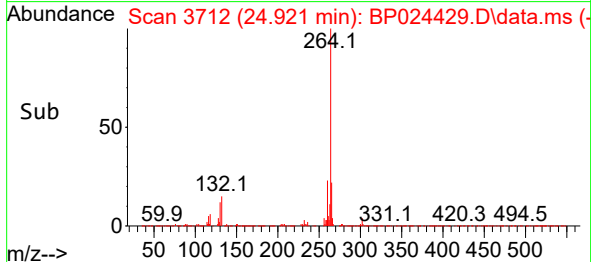
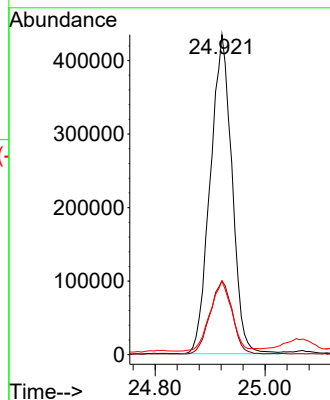
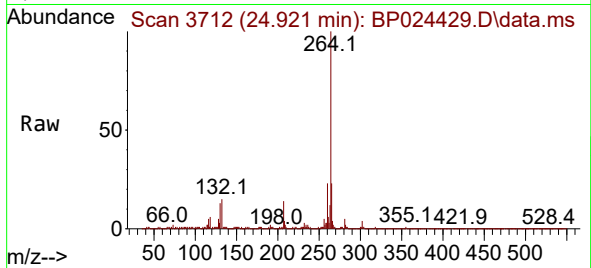
Tgt Ion:264 Resp: 1189864

Ion Ratio Lower Upper

264 100

260 23.1 18.9 28.3

265 23.0 17.8 26.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 9.787 ng

RT: 28.704 min Scan# 4355

Delta R.T. -0.035 min

Lab File: BP024429.D

Acq: 25 Apr 2025 19:13

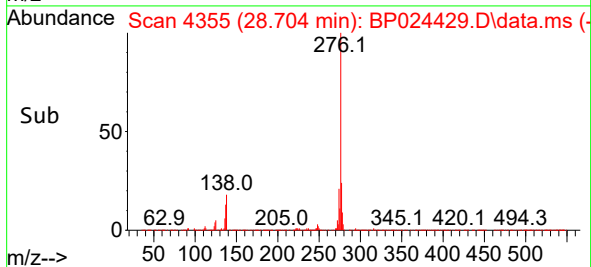
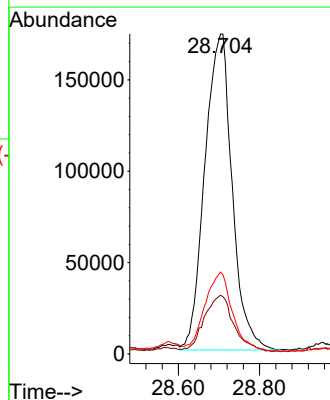
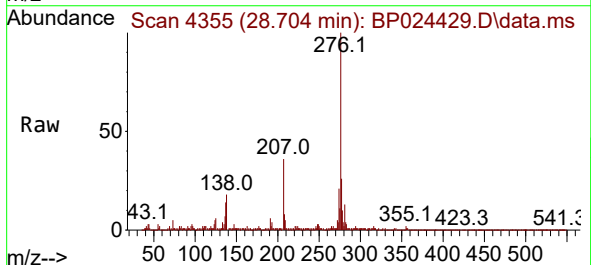
Tgt Ion:276 Resp: 808488

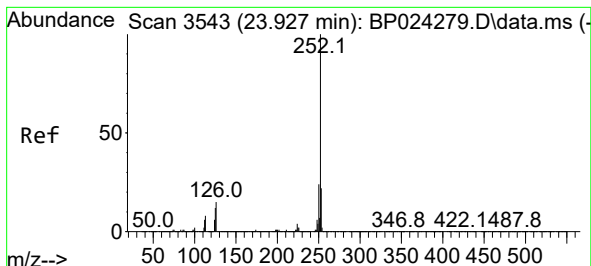
Ion Ratio Lower Upper

276 100

138 19.1 14.5 21.7

277 25.4 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 19.689 ng

RT: 23.874 min Scan# 3534

Delta R.T. -0.012 min

Lab File: BP024429.D

Acq: 25 Apr 2025 19:13

Instrument :

BNA_P

ClientSampleId :

RBR200059

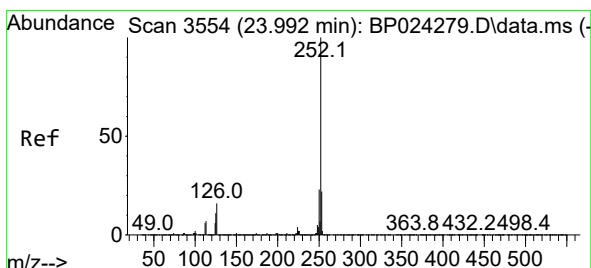
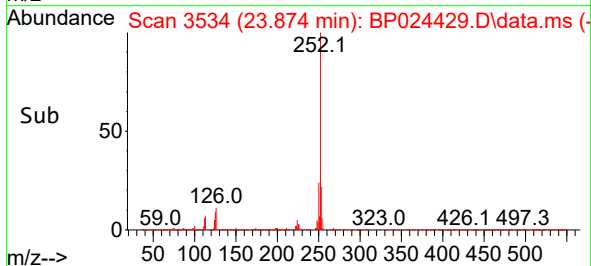
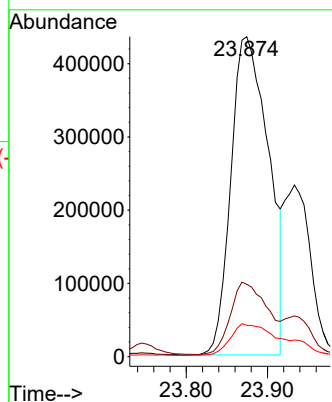
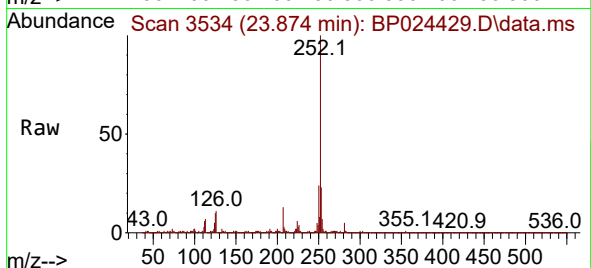
Tgt Ion:252 Resp: 1404234

Ion Ratio Lower Upper

252 100

253 22.6 17.7 26.5

125 9.8 9.4 14.0



#89

Benzo(k)fluoranthene

Concen: 20.383 ng

RT: 23.874 min Scan# 3534

Delta R.T. -0.082 min

Lab File: BP024429.D

Acq: 25 Apr 2025 19:13

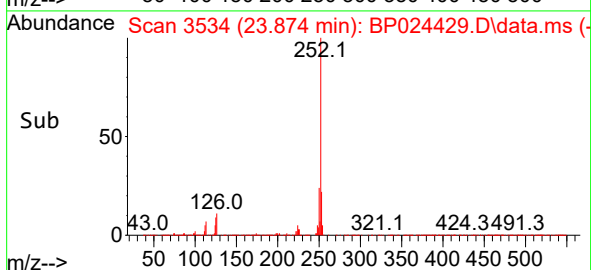
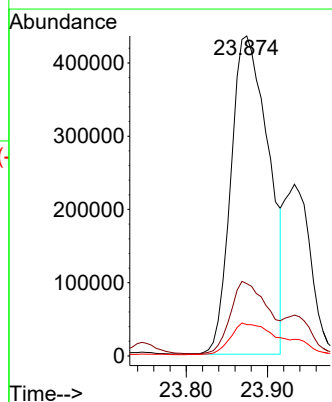
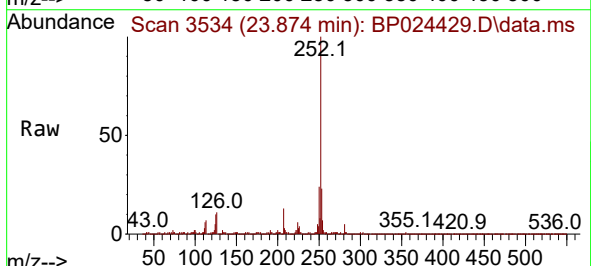
Tgt Ion:252 Resp: 1404234

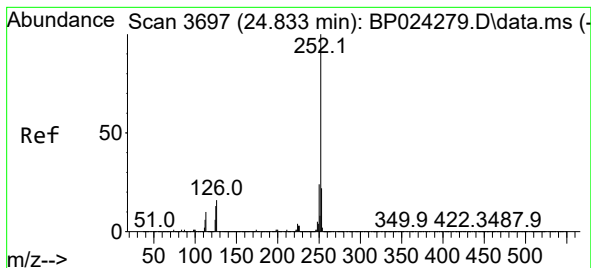
Ion Ratio Lower Upper

252 100

253 22.6 17.7 26.5

125 9.8 9.1 13.7





#90

Benzo(a)pyrene

Concen: 19.080 ng

RT: 24.763 min Scan# 3

Delta R.T. -0.017 min

Lab File: BP024429.D

Acq: 25 Apr 2025 19:13

Instrument :

BNA_P

ClientSampleId :

RBR200059

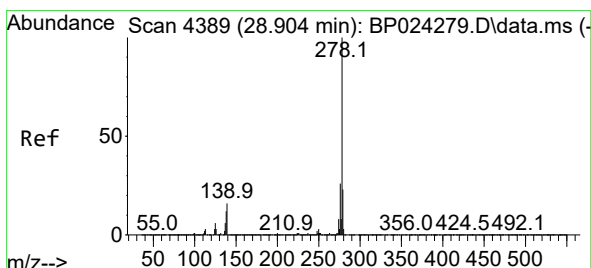
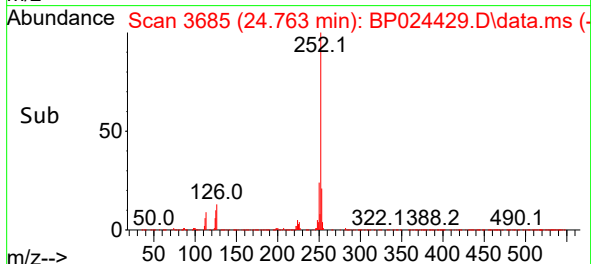
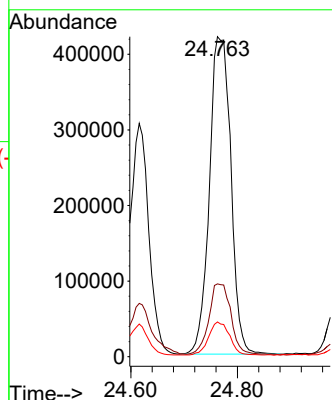
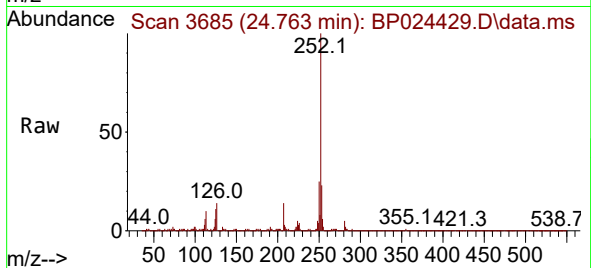
Tgt Ion:252 Resp: 1173856

Ion Ratio Lower Upper

252 100

253 22.7 17.6 26.4

125 10.9 10.1 15.1



#91

Dibenzo(a,h)anthracene

Concen: 3.122 ng

RT: 28.762 min Scan# 4365

Delta R.T. -0.041 min

Lab File: BP024429.D

Acq: 25 Apr 2025 19:13

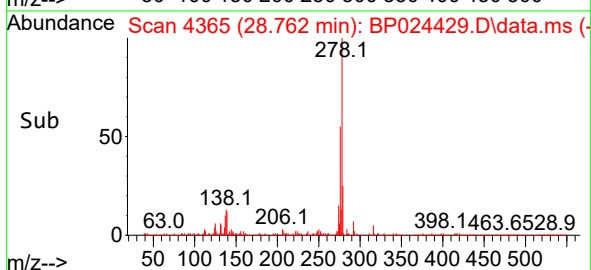
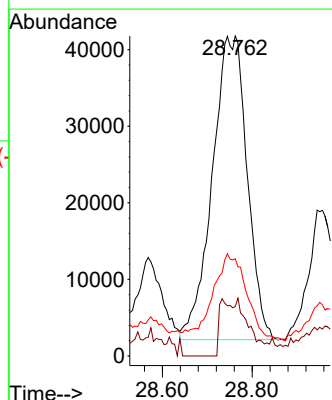
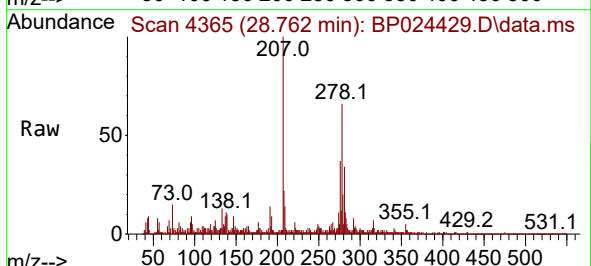
Tgt Ion:278 Resp: 214049

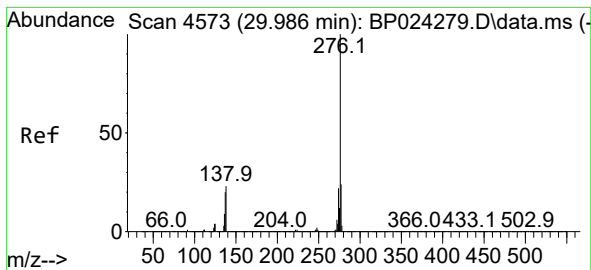
Ion Ratio Lower Upper

278 100

139 15.4 12.6 19.0

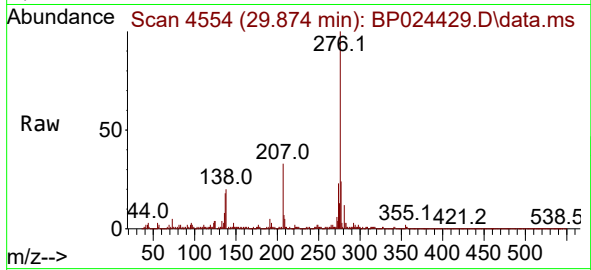
279 30.4 18.5 27.7#





#92
 Benzo(g,h,i)perylene
 Concen: 12.018 ng
 RT: 29.874 min Scan# 4
 Delta R.T. -0.023 min
 Lab File: BP024429.D
 Acq: 25 Apr 2025 19:13

Instrument :
 BNA_P
 ClientSampleId :
 RBR200059



Tgt Ion:276 Resp: 838717
 Ion Ratio Lower Upper
 276 100
 277 24.2 18.9 28.3
 138 20.3 18.7 28.1

