

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP081825\
 Data File : BP025464.D
 Acq On : 18 Aug 2025 16:54
 Operator : CG/JU
 Sample : Q2857-03 5X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 72-12002

Quant Time: Aug 18 17:30:33 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP081425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 14 18:14:31 2025
 Response via : Initial Calibration

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

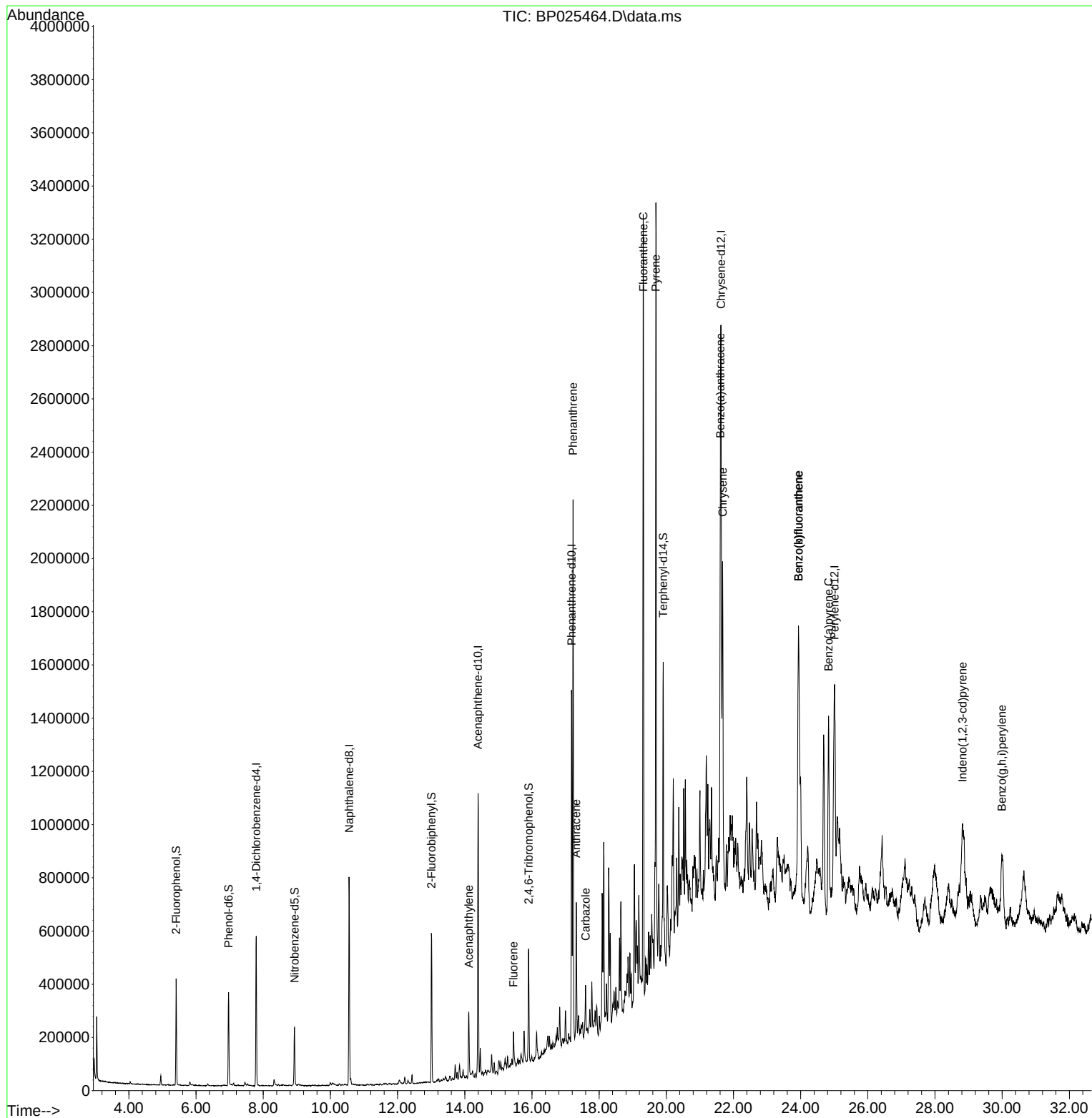
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.790	152	158453	20.000	ng	0.00
21) Naphthalene-d8	10.555	136	640173	20.000	ng	0.00
39) Acenaphthene-d10	14.395	164	406300	20.000	ng	-0.01
64) Phenanthrene-d10	17.178	188	794789	20.000	ng	-0.02
76) Chrysene-d12	21.630	240	888845	20.000	ng	-0.02
86) Perylene-d12	25.007	264	1069481	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.408	112	165716	17.368	ng	0.00
7) Phenol-d6	6.966	99	209221	17.103	ng	0.00
23) Nitrobenzene-d5	8.931	82	131917	10.424	ng	0.00
42) 2,4,6-Tribromophenol	15.901	330	86314	15.783	ng	-0.01
45) 2-Fluorobiphenyl	13.007	172	303594	10.212	ng	-0.01
79) Terphenyl-d14	19.907	244	494189	10.172	ng	-0.01
Target Compounds						
						Qvalue
49) Acenaphthylene	14.119	152	216344	5.692	ng	99
58) Fluorene	15.448	166	65217	2.343	ng	97
71) Phenanthrene	17.225	178	1250979	28.653	ng	99
72) Anthracene	17.319	178	386152	8.661	ng	99
73) Carbazole	17.595	167	131365	3.128	ng	98
75) Fluoranthene	19.313	202	1939709	37.245	ng	98
78) Pyrene	19.689	202	1887848	32.677	ng	99
81) Benzo(a)anthracene	21.607	228	816719	13.933	ng	96
83) Chrysene	21.677	228	967861	17.630	ng	97
87) Indeno(1,2,3-cd)pyrene	28.818	276	550610	7.020	ng	# 89
88) Benzo(b)fluoranthene	23.936	252	1113168	17.651	ng	98
89) Benzo(k)fluoranthene	23.936	252	1113168	17.639	ng	97
90) Benzo(a)pyrene	24.830	252	754766	12.295	ng	99
92) Benzo(g,h,i)perylene	29.995	276	541041	8.587	ng	98

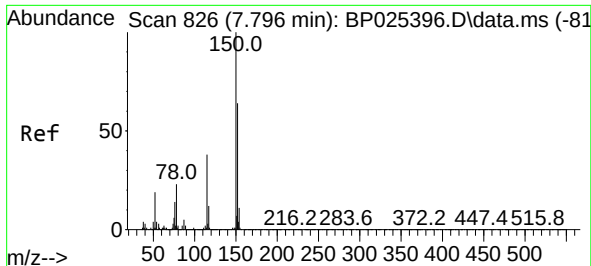
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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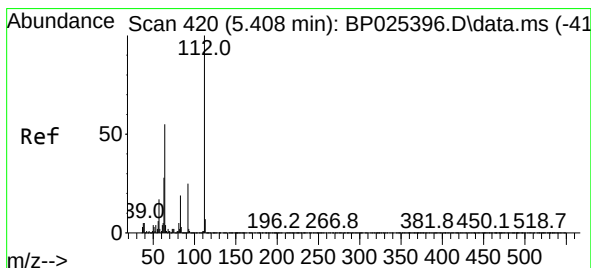
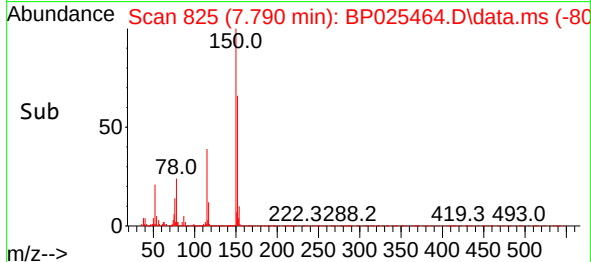
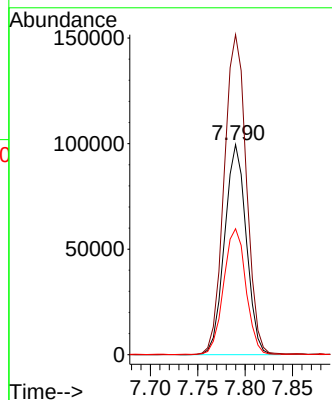
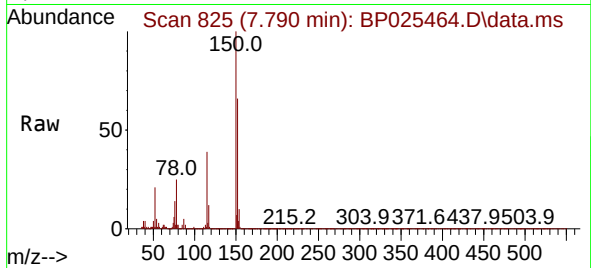




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.790 min Scan# 81
 Delta R.T. -0.006 min
 Lab File: BP025464.D
 Acq: 18 Aug 2025 16:54

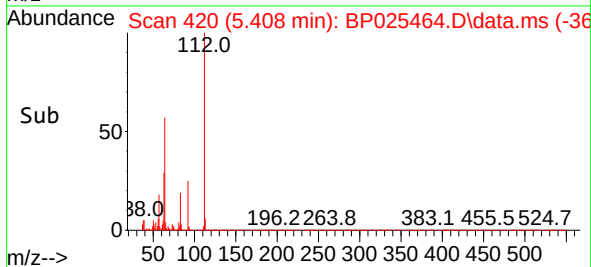
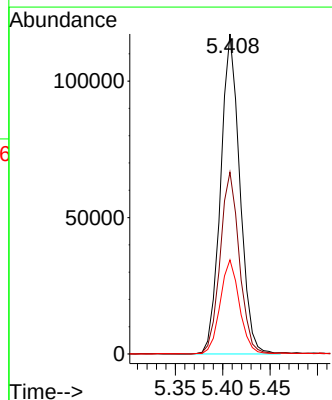
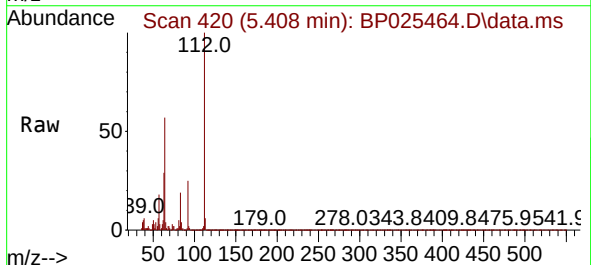
Instrument :
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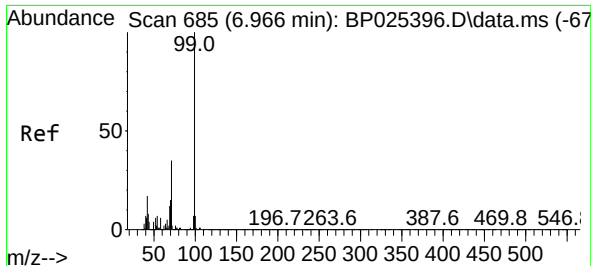
Tgt Ion:152 Resp: 158453
 Ion Ratio Lower Upper
 152 100
 150 152.3 125.9 188.9
 115 59.9 48.5 72.7



#5
 2-Fluorophenol
 Concen: 17.368 ng
 RT: 5.408 min Scan# 420
 Delta R.T. 0.000 min
 Lab File: BP025464.D
 Acq: 18 Aug 2025 16:54

Tgt Ion:112 Resp: 165716
 Ion Ratio Lower Upper
 112 100
 64 56.8 43.8 65.8
 63 29.4 22.7 34.1

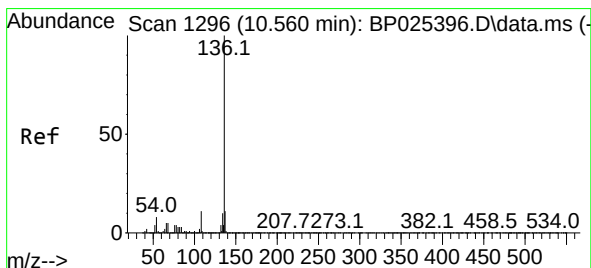
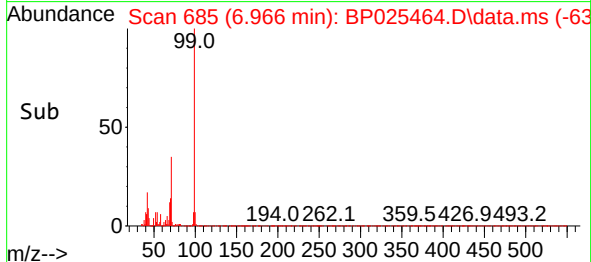
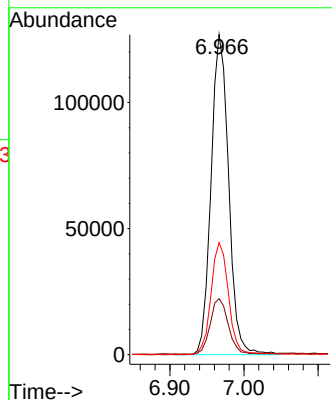
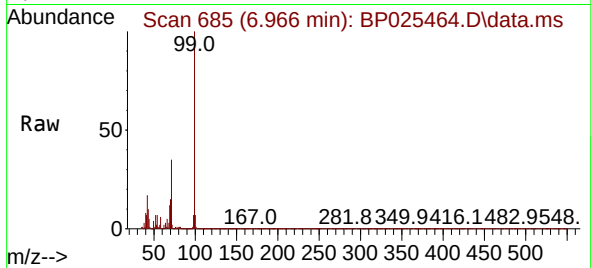




#7
Phenol-d6
Concen: 17.103 ng
RT: 6.966 min Scan# 685
Delta R.T. 0.000 min
Lab File: BP025464.D
Acq: 18 Aug 2025 16:54

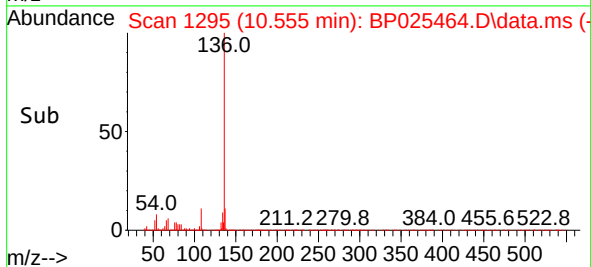
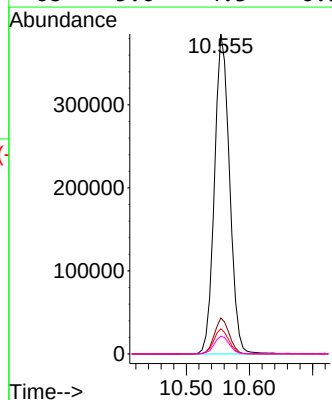
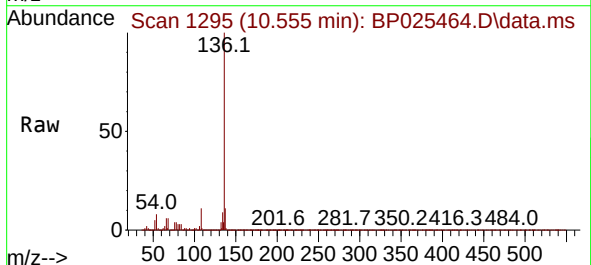
Instrument :
BNA_P
ClientSampleId :
72-12002

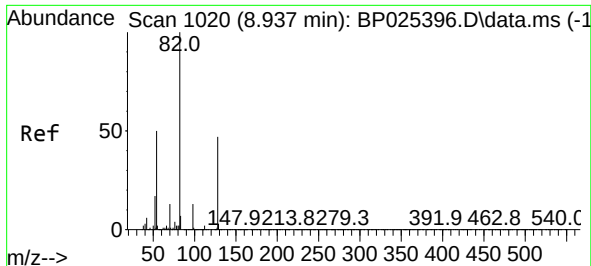
Tgt Ion: 99 Resp: 209221
Ion Ratio Lower Upper
99 100
42 17.5 13.7 20.5
71 35.0 28.2 42.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.555 min Scan# 1295
Delta R.T. -0.006 min
Lab File: BP025464.D
Acq: 18 Aug 2025 16:54

Tgt Ion: 136 Resp: 640173
Ion Ratio Lower Upper
136 100
137 11.3 9.2 13.8
54 7.9 6.0 9.0
68 5.6 4.3 6.5





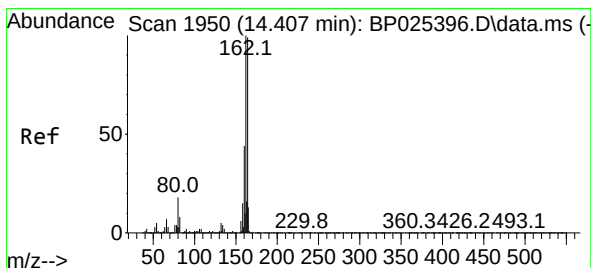
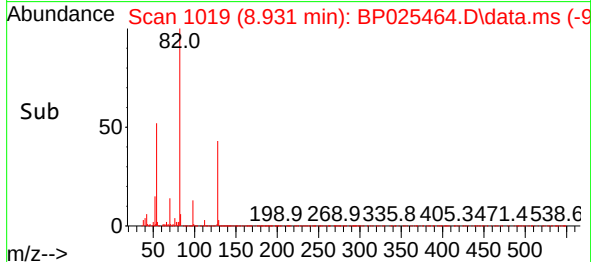
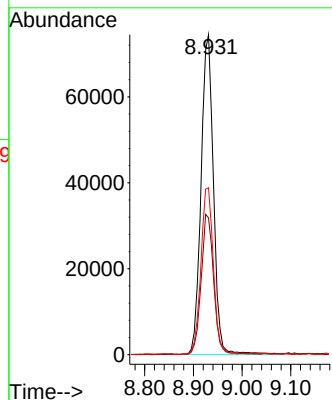
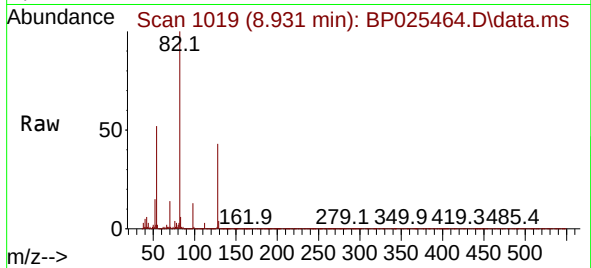
#23
Nitrobenzene-d5
Concen: 10.424 ng
RT: 8.931 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BP025464.D
Acq: 18 Aug 2025 16:54

Instrument :

BNA_P

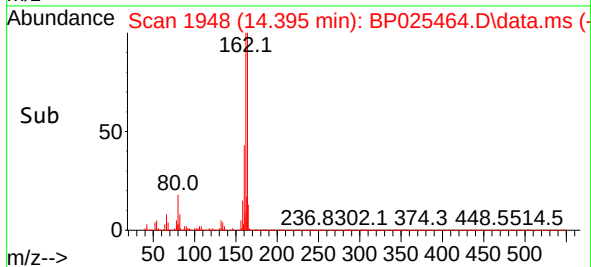
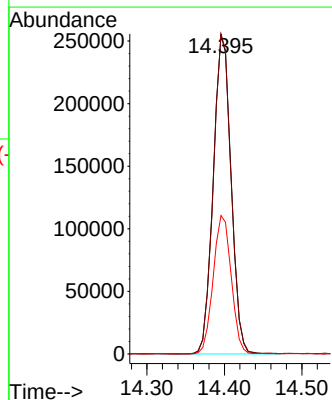
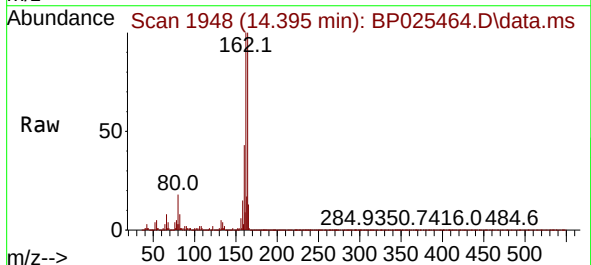
ClientSampleId :
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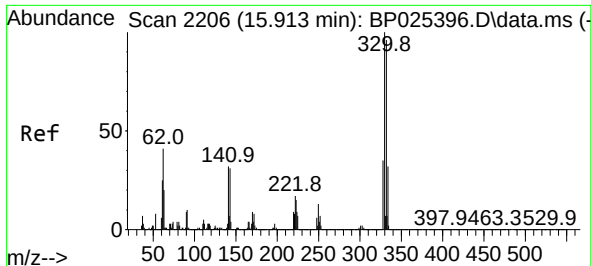
Tgt Ion: 82 Resp: 131917
Ion Ratio Lower Upper
82 100
128 42.8 37.7 56.5
54 52.1 39.8 59.6



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.395 min Scan# 1948
Delta R.T. -0.012 min
Lab File: BP025464.D
Acq: 18 Aug 2025 16:54

Tgt Ion:164 Resp: 406300
Ion Ratio Lower Upper
164 100
162 100.3 81.0 121.6
160 43.4 35.4 53.2

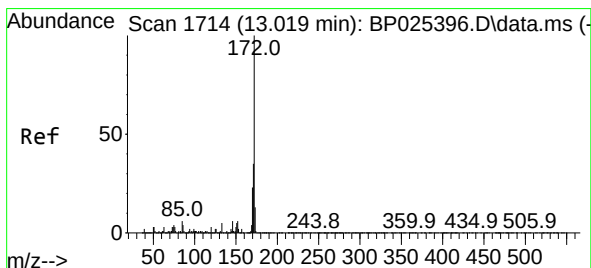
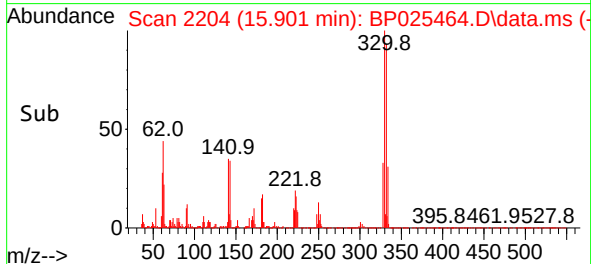
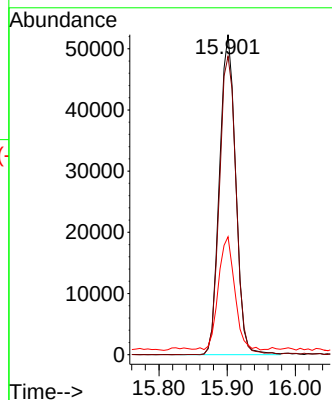
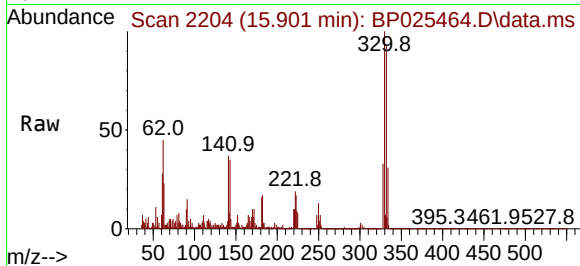




#42
2,4,6-Tribromophenol
Concen: 15.783 ng
RT: 15.901 min Scan# 21
Delta R.T. -0.012 min
Lab File: BP025464.D
Acq: 18 Aug 2025 16:54

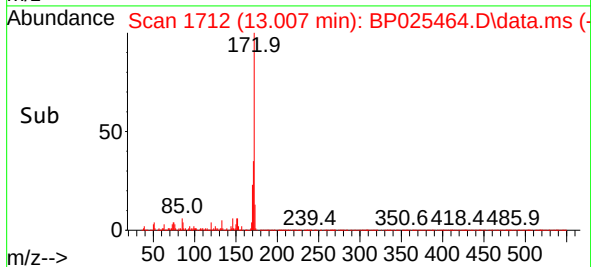
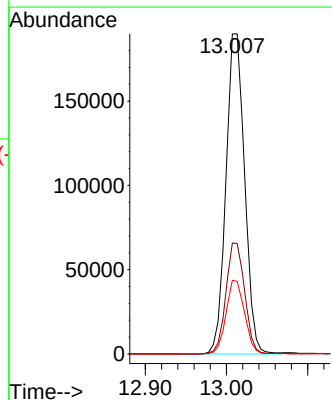
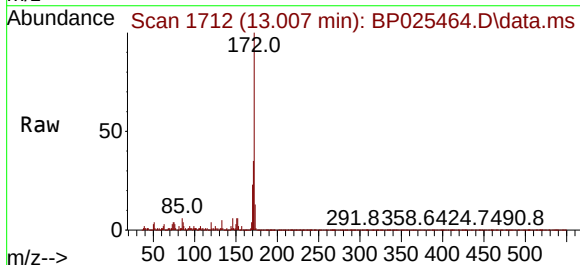
Instrument :
BNA_P
ClientSampleId :
72-12002

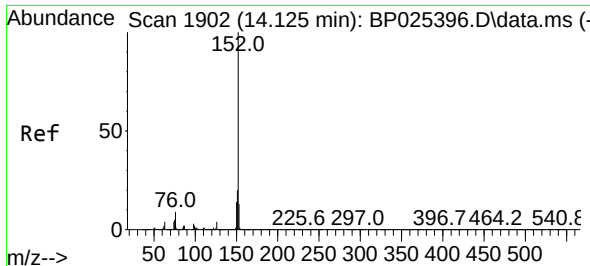
Tgt Ion:330 Resp: 86314
Ion Ratio Lower Upper
330 100
332 96.0 77.3 115.9
141 35.6 26.6 39.8



#45
2-Fluorobiphenyl
Concen: 10.212 ng
RT: 13.007 min Scan# 1712
Delta R.T. -0.012 min
Lab File: BP025464.D
Acq: 18 Aug 2025 16:54

Tgt Ion:172 Resp: 303594
Ion Ratio Lower Upper
172 100
171 34.7 28.1 42.1
170 23.0 18.6 28.0

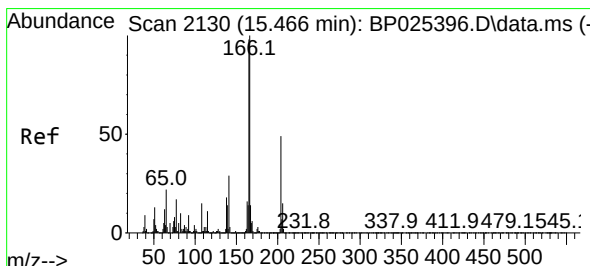
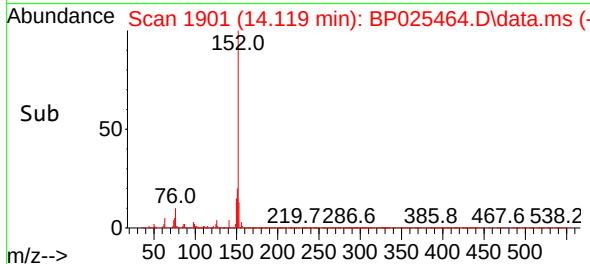
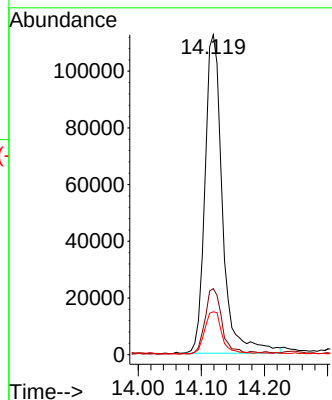
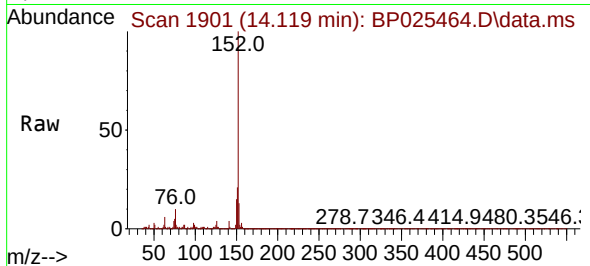




#49
Acenaphthylene
Concen: 5.692 ng
RT: 14.119 min Scan# 1901
Delta R.T. -0.006 min
Lab File: BP025464.D
Acq: 18 Aug 2025 16:54

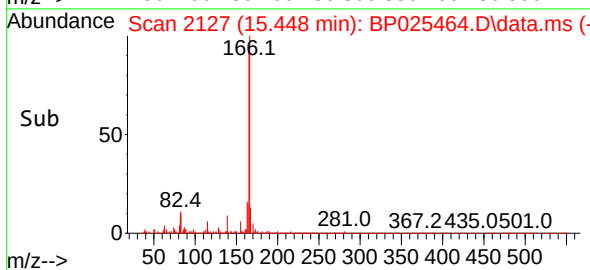
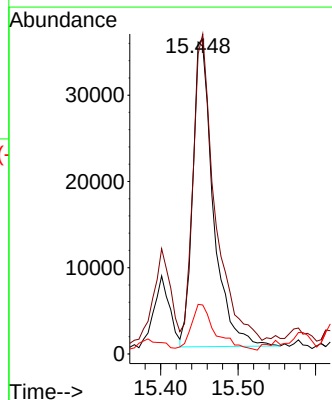
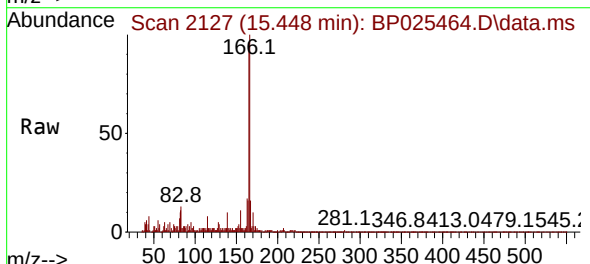
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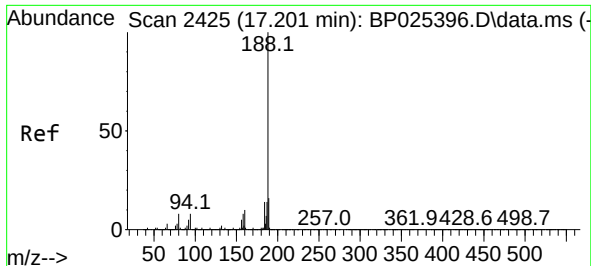
Tgt Ion:152 Resp: 216344
Ion Ratio Lower Upper
152 100
151 20.6 16.0 24.0
153 13.4 10.6 15.8



#58
Fluorene
Concen: 2.343 ng
RT: 15.448 min Scan# 2127
Delta R.T. -0.018 min
Lab File: BP025464.D
Acq: 18 Aug 2025 16:54

Tgt Ion:166 Resp: 65217
Ion Ratio Lower Upper
166 100
165 96.1 78.8 118.2
167 15.9 11.0 16.4

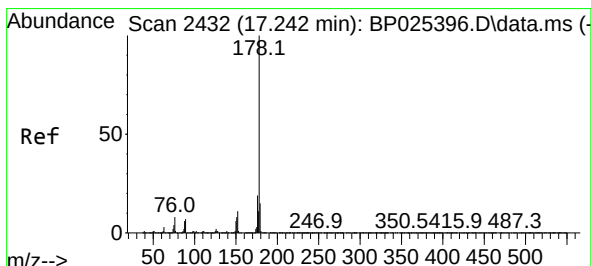
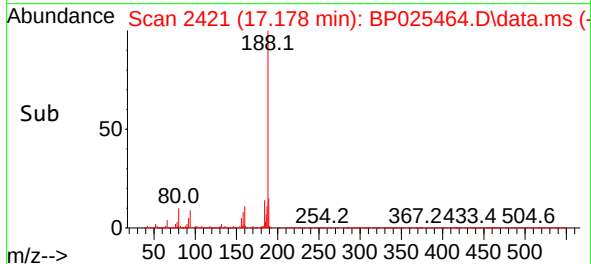
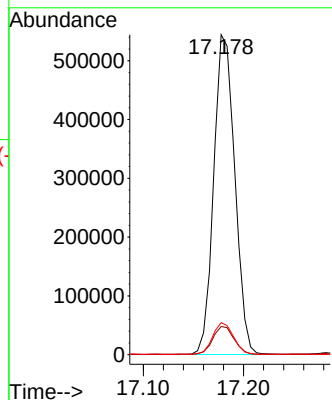
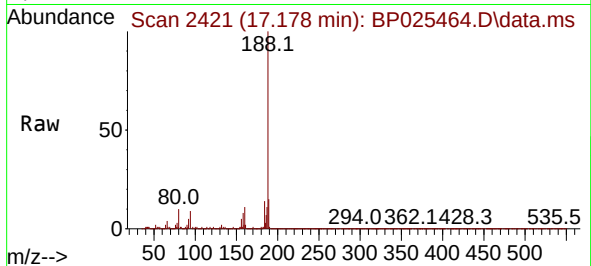




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.178 min Scan# 2421
Delta R.T. -0.023 min
Lab File: BP025464.D
Acq: 18 Aug 2025 16:54

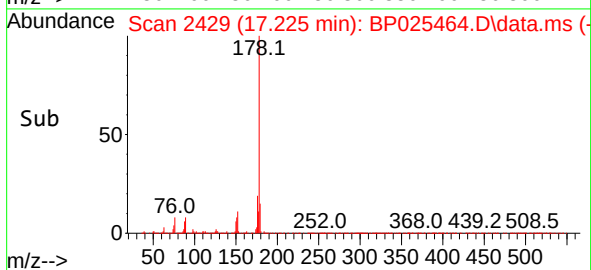
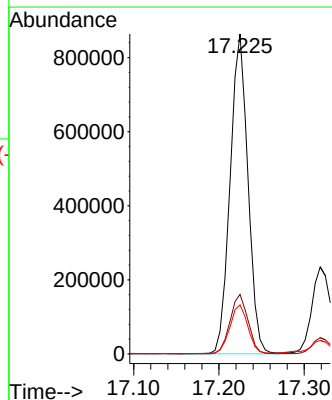
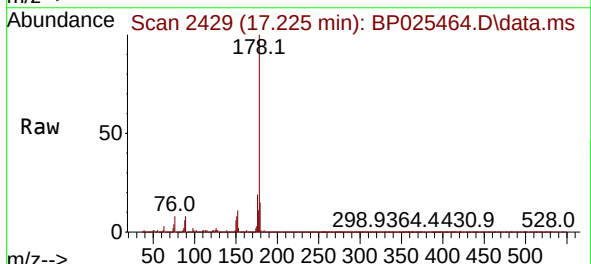
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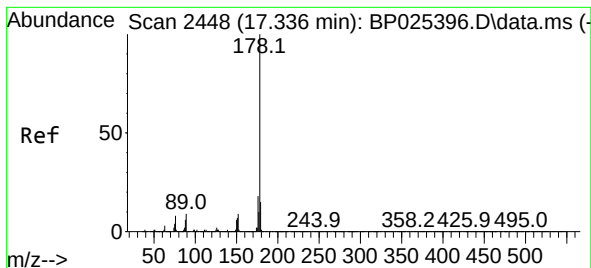
Tgt Ion:188 Resp: 794789
Ion Ratio Lower Upper
188 100
94 8.8 6.6 10.0
80 10.0 6.7 10.1



#71
Phenanthrene
Concen: 28.653 ng
RT: 17.225 min Scan# 2429
Delta R.T. -0.018 min
Lab File: BP025464.D
Acq: 18 Aug 2025 16:54

Tgt Ion:178 Resp: 1250979
Ion Ratio Lower Upper
178 100
176 18.6 15.5 23.3
179 15.3 12.2 18.4





#72

Anthracene

Concen: 8.661 ng

RT: 17.319 min Scan# 2445

Delta R.T. -0.017 min

Lab File: BP025464.D

Acq: 18 Aug 2025 16:54

Instrument :

BNA_P

ClientSampleId :

72-12002

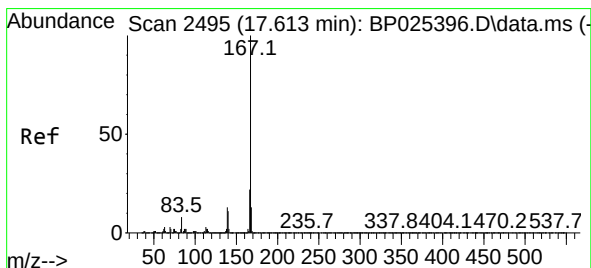
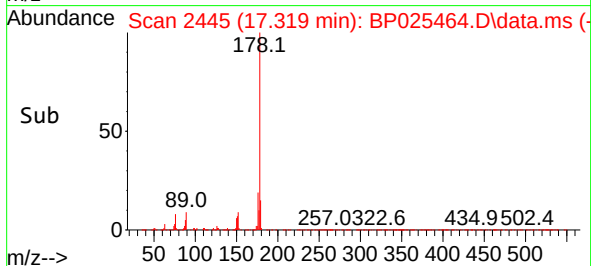
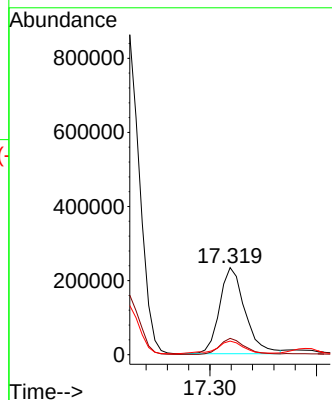
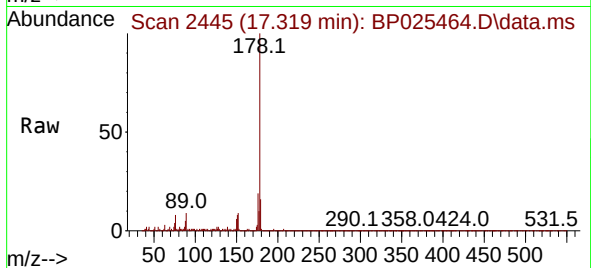
Tgt Ion:178 Resp: 386152

Ion Ratio Lower Upper

178 100

176 18.7 14.7 22.1

179 15.7 12.2 18.2



#73

Carbazole

Concen: 3.128 ng

RT: 17.595 min Scan# 2492

Delta R.T. -0.017 min

Lab File: BP025464.D

Acq: 18 Aug 2025 16:54

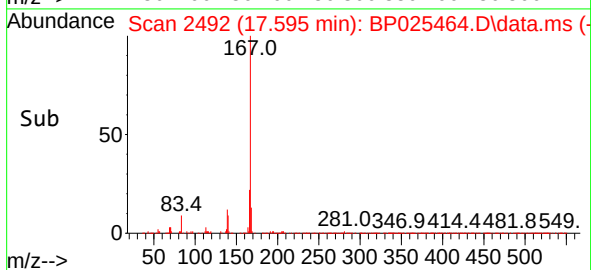
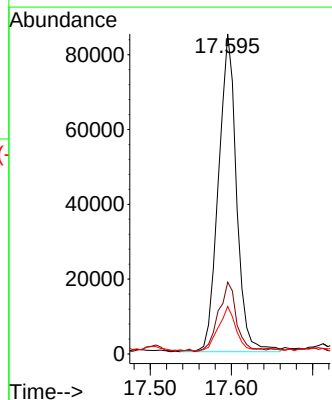
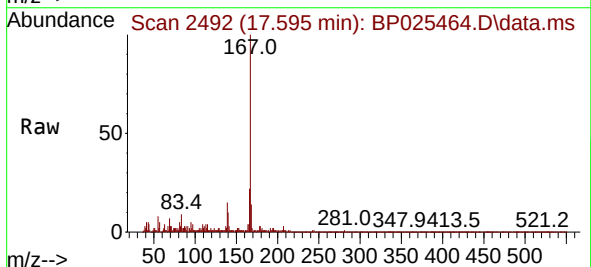
Tgt Ion:167 Resp: 131365

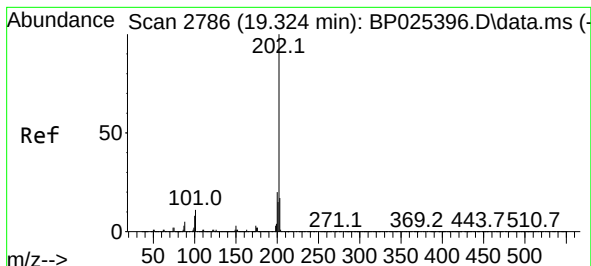
Ion Ratio Lower Upper

167 100

166 22.5 17.5 26.3

139 14.9 10.6 16.0





#75

Fluoranthene

Concen: 37.245 ng

RT: 19.313 min Scan# 21

Delta R.T. -0.012 min

Lab File: BP025464.D

Acq: 18 Aug 2025 16:54

Instrument :

BNA_P

ClientSampleId :

72-12002

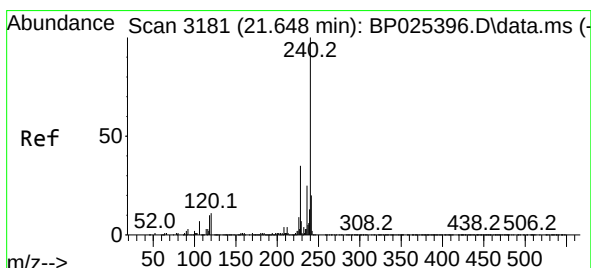
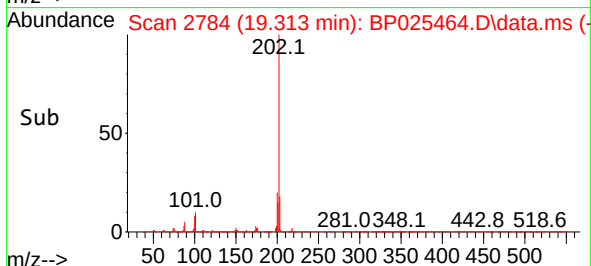
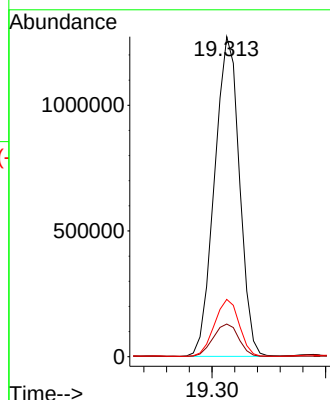
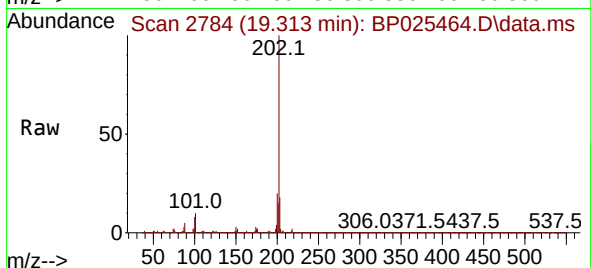
Tgt Ion:202 Resp: 1939709

Ion Ratio Lower Upper

202 100

101 10.2 0.0 31.1

203 17.9 0.0 37.3



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.630 min Scan# 3178

Delta R.T. -0.017 min

Lab File: BP025464.D

Acq: 18 Aug 2025 16:54

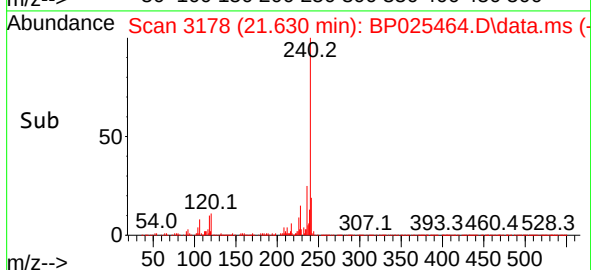
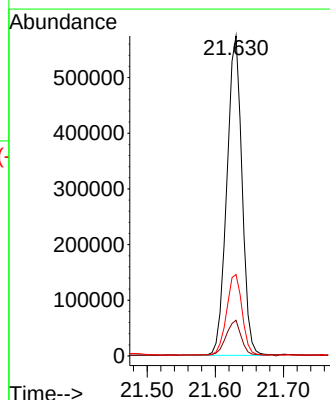
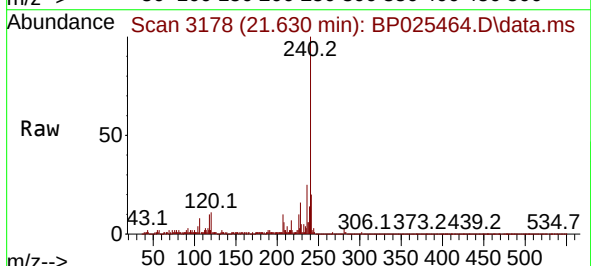
Tgt Ion:240 Resp: 888845

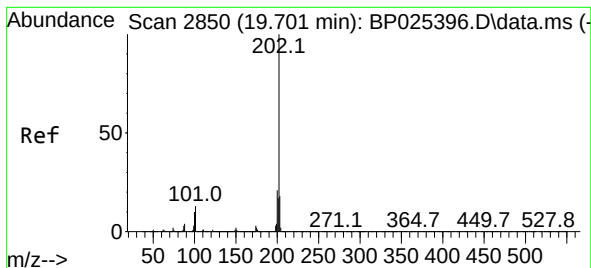
Ion Ratio Lower Upper

240 100

120 11.2 8.9 13.3

236 25.5 19.8 29.8





#78

Pyrene

Concen: 32.677 ng

RT: 19.689 min Scan# 2848

Delta R.T. -0.012 min

Lab File: BP025464.D

Acq: 18 Aug 2025 16:54

Instrument :

BNA_P

ClientSampleId :

72-12002

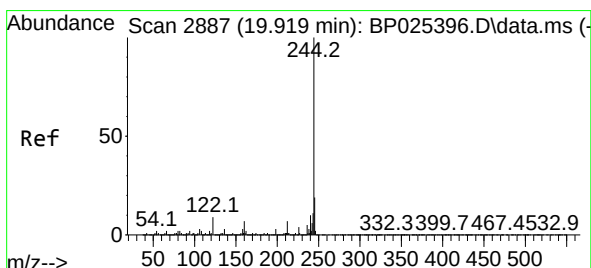
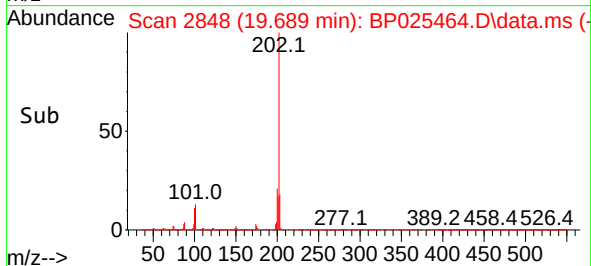
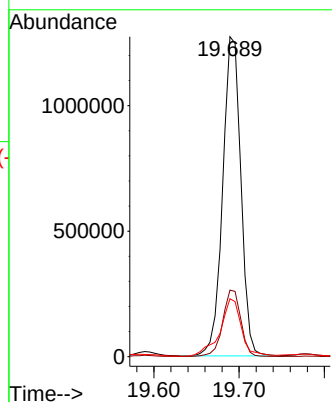
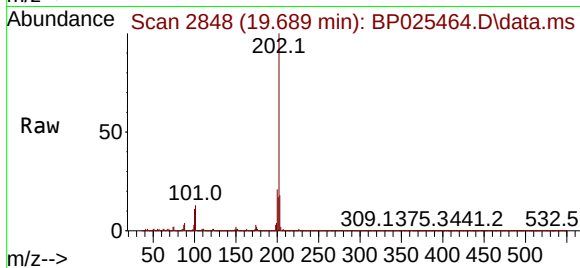
Tgt Ion:202 Resp: 1887848

Ion Ratio Lower Upper

202 100

200 20.8 16.9 25.3

203 18.1 14.2 21.2



#79

Terphenyl-d14

Concen: 10.172 ng

RT: 19.907 min Scan# 2885

Delta R.T. -0.012 min

Lab File: BP025464.D

Acq: 18 Aug 2025 16:54

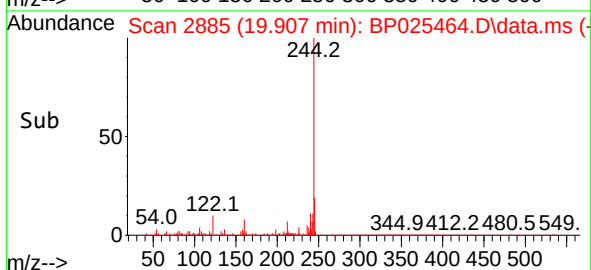
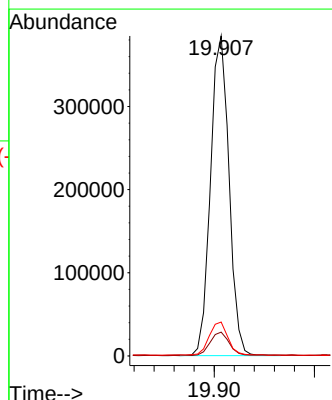
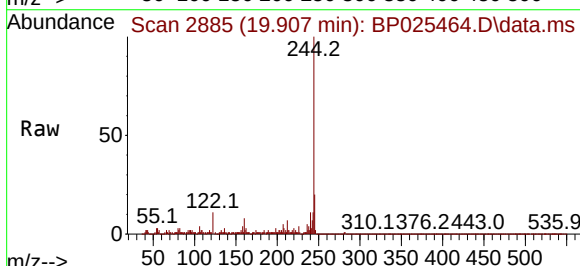
Tgt Ion:244 Resp: 494189

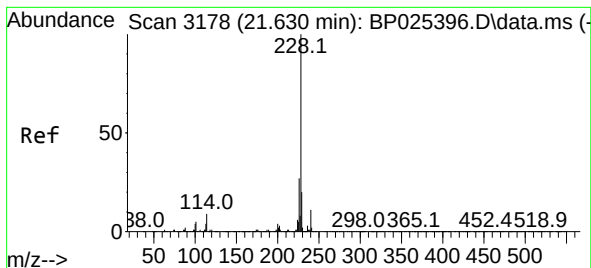
Ion Ratio Lower Upper

244 100

212 7.4 5.8 8.6

122 10.6 7.4 11.2





#81

Benzo(a)anthracene

Concen: 13.933 ng

RT: 21.607 min Scan# 3174

Delta R.T. -0.023 min

Lab File: BP025464.D

Acq: 18 Aug 2025 16:54

Instrument :

BNA_P

ClientSampleId :

72-12002

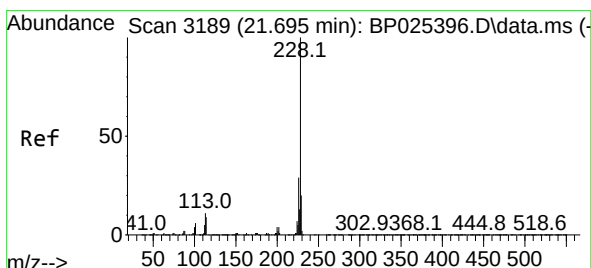
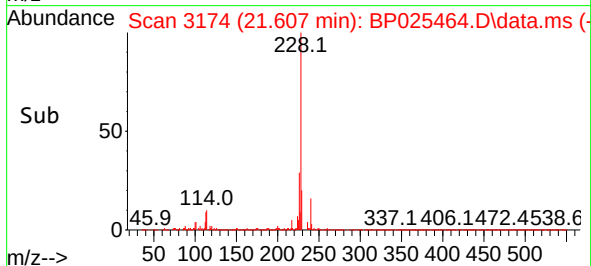
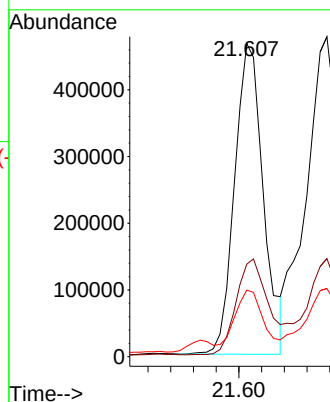
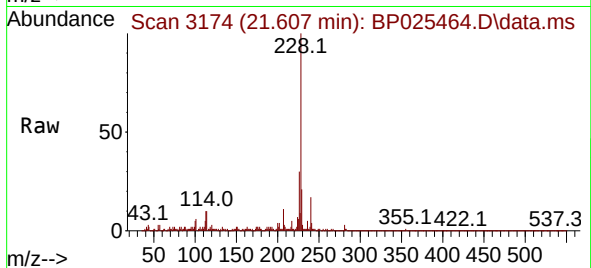
Tgt Ion:228 Resp: 816719

Ion Ratio Lower Upper

228 100

226 29.6 21.7 32.5

229 21.3 15.6 23.4



#83

Chrysene

Concen: 17.630 ng

RT: 21.677 min Scan# 3186

Delta R.T. -0.018 min

Lab File: BP025464.D

Acq: 18 Aug 2025 16:54

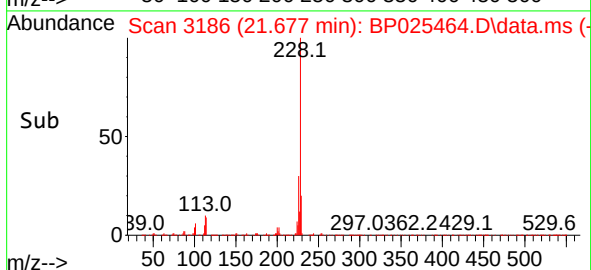
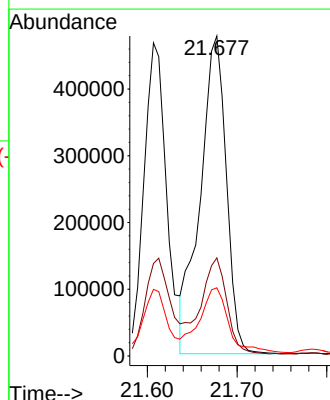
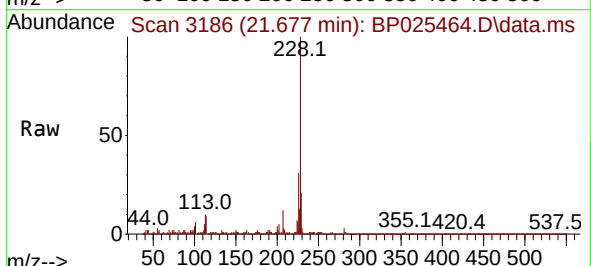
Tgt Ion:228 Resp: 967861

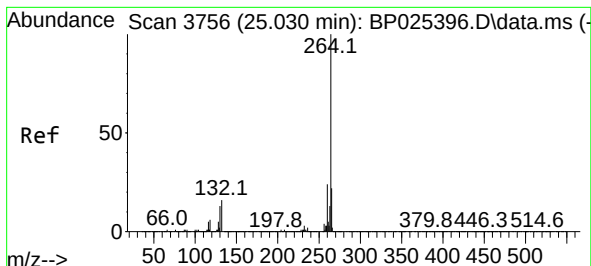
Ion Ratio Lower Upper

228 100

226 30.7 23.2 34.8

229 21.3 15.6 23.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.007 min Scan# 31

Delta R.T. -0.023 min

Lab File: BP025464.D

Acq: 18 Aug 2025 16:54

Instrument :

BNA_P

ClientSampleId :

72-12002

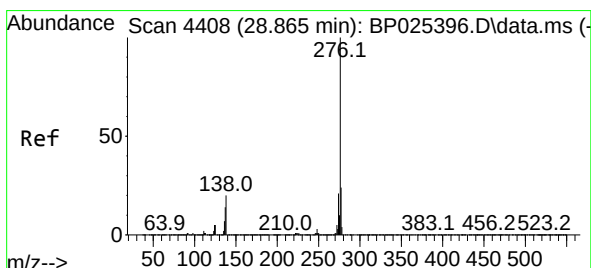
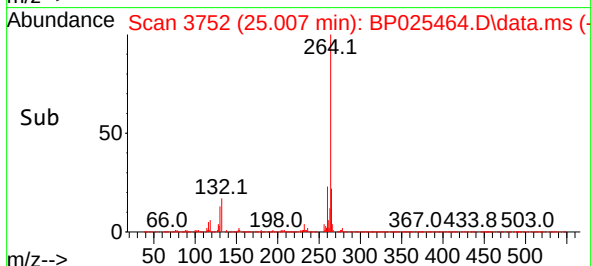
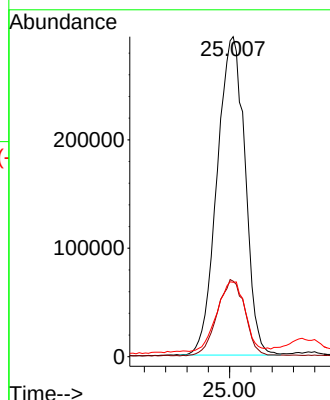
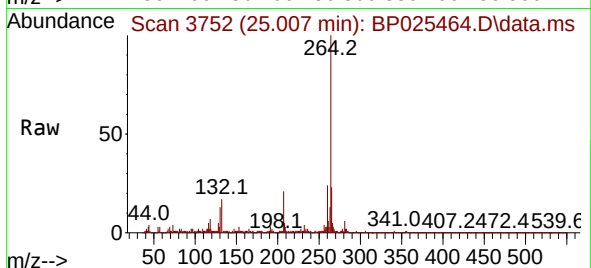
Tgt Ion:264 Resp: 1069481

Ion Ratio Lower Upper

264 100

260 23.6 19.3 28.9

265 23.2 17.4 26.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.020 ng

RT: 28.818 min Scan# 4400

Delta R.T. -0.047 min

Lab File: BP025464.D

Acq: 18 Aug 2025 16:54

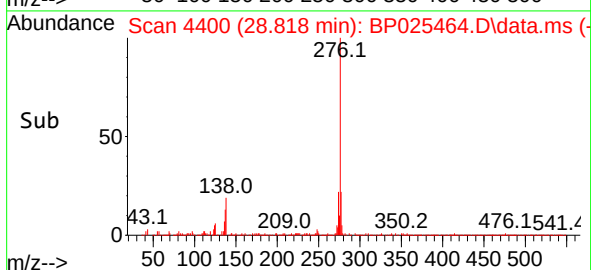
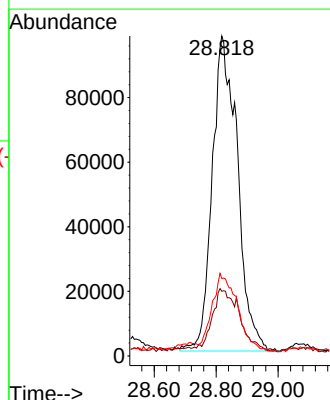
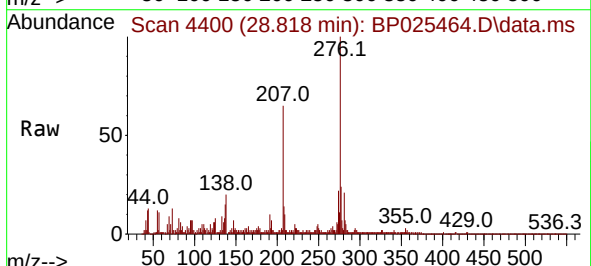
Tgt Ion:276 Resp: 550610

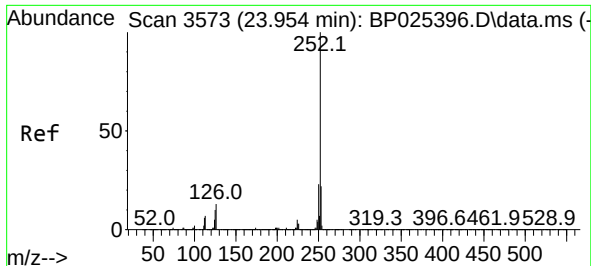
Ion Ratio Lower Upper

276 100

138 22.0 12.9 19.3#

277 25.6 17.0 25.6#

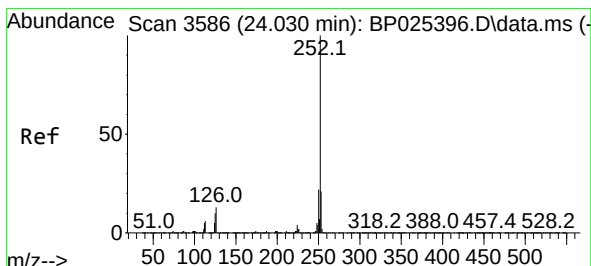
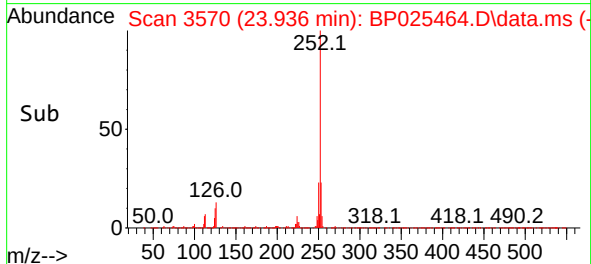
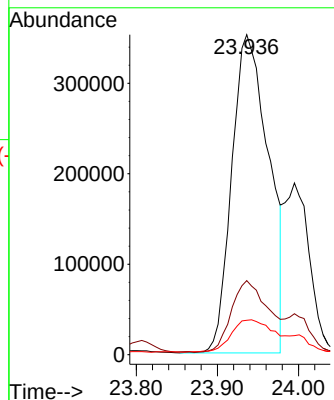
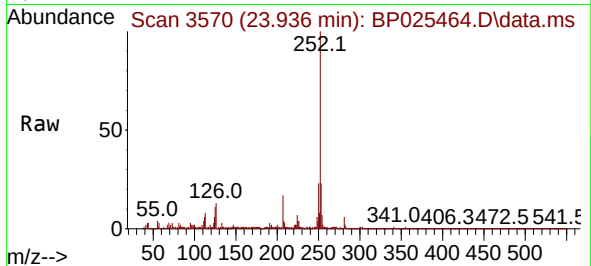




#88
Benzo(b)fluoranthene
Concen: 17.651 ng
RT: 23.936 min Scan# 3570
Delta R.T. -0.017 min
Lab File: BP025464.D
Acq: 18 Aug 2025 16:54

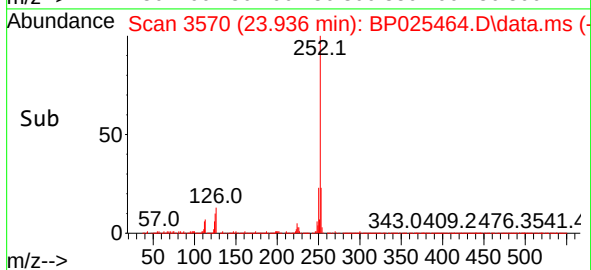
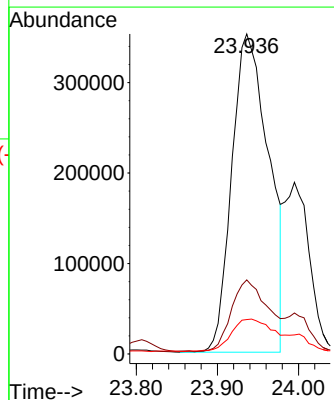
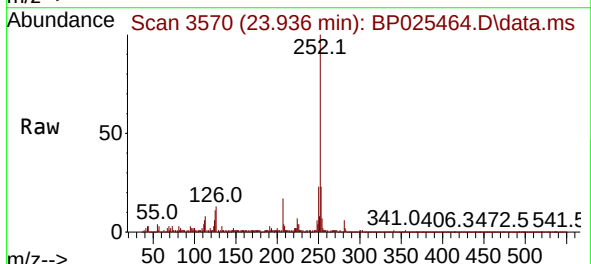
Instrument :
BNA_P
ClientSampleId :
72-12002

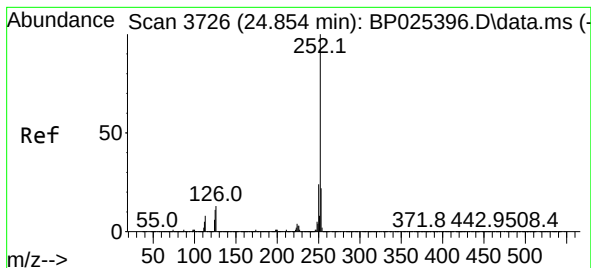
Tgt Ion:252 Resp: 1113168
Ion Ratio Lower Upper
252 100
253 23.1 17.7 26.5
125 10.8 7.9 11.9



#89
Benzo(k)fluoranthene
Concen: 17.639 ng
RT: 23.936 min Scan# 3570
Delta R.T. -0.094 min
Lab File: BP025464.D
Acq: 18 Aug 2025 16:54

Tgt Ion:252 Resp: 1113168
Ion Ratio Lower Upper
252 100
253 23.1 17.1 25.7
125 10.8 7.8 11.6





#90

Benzo(a)pyrene

Concen: 12.295 ng

RT: 24.830 min Scan# 31

Delta R.T. -0.023 min

Lab File: BP025464.D

Acq: 18 Aug 2025 16:54

Instrument :

BNA_P

ClientSampleId :

72-12002

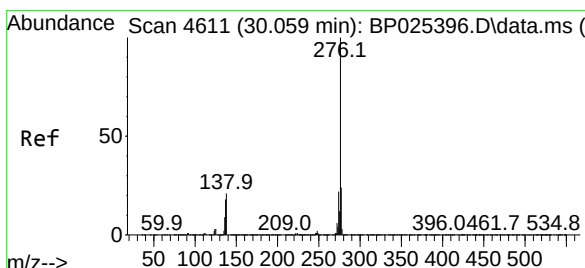
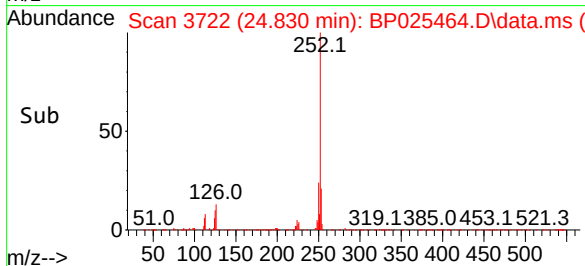
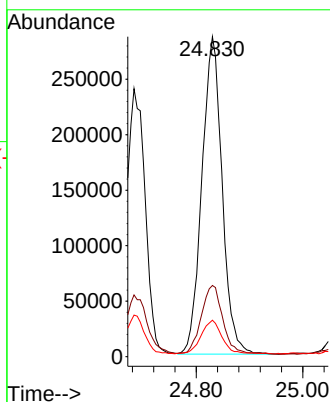
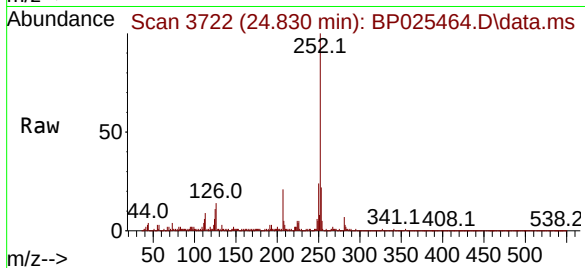
Tgt Ion:252 Resp: 754766

Ion Ratio Lower Upper

252 100

253 22.2 17.5 26.3

125 11.4 8.7 13.1



#92

Benzo(g,h,i)perylene

Concen: 8.587 ng

RT: 29.995 min Scan# 4600

Delta R.T. -0.065 min

Lab File: BP025464.D

Acq: 18 Aug 2025 16:54

Tgt Ion:276 Resp: 541041

Ion Ratio Lower Upper

276 100

277 22.6 19.4 29.0

138 21.4 16.7 25.1

