

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
 Data File : BP024903.D
 Acq On : 10 Jun 2025 21:13
 Operator : RC/JU
 Sample : Q2240-05 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 TP-2

Quant Time: Jun 11 02:06:24 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP060625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 06 16:20:27 2025
 Response via : Initial Calibration

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

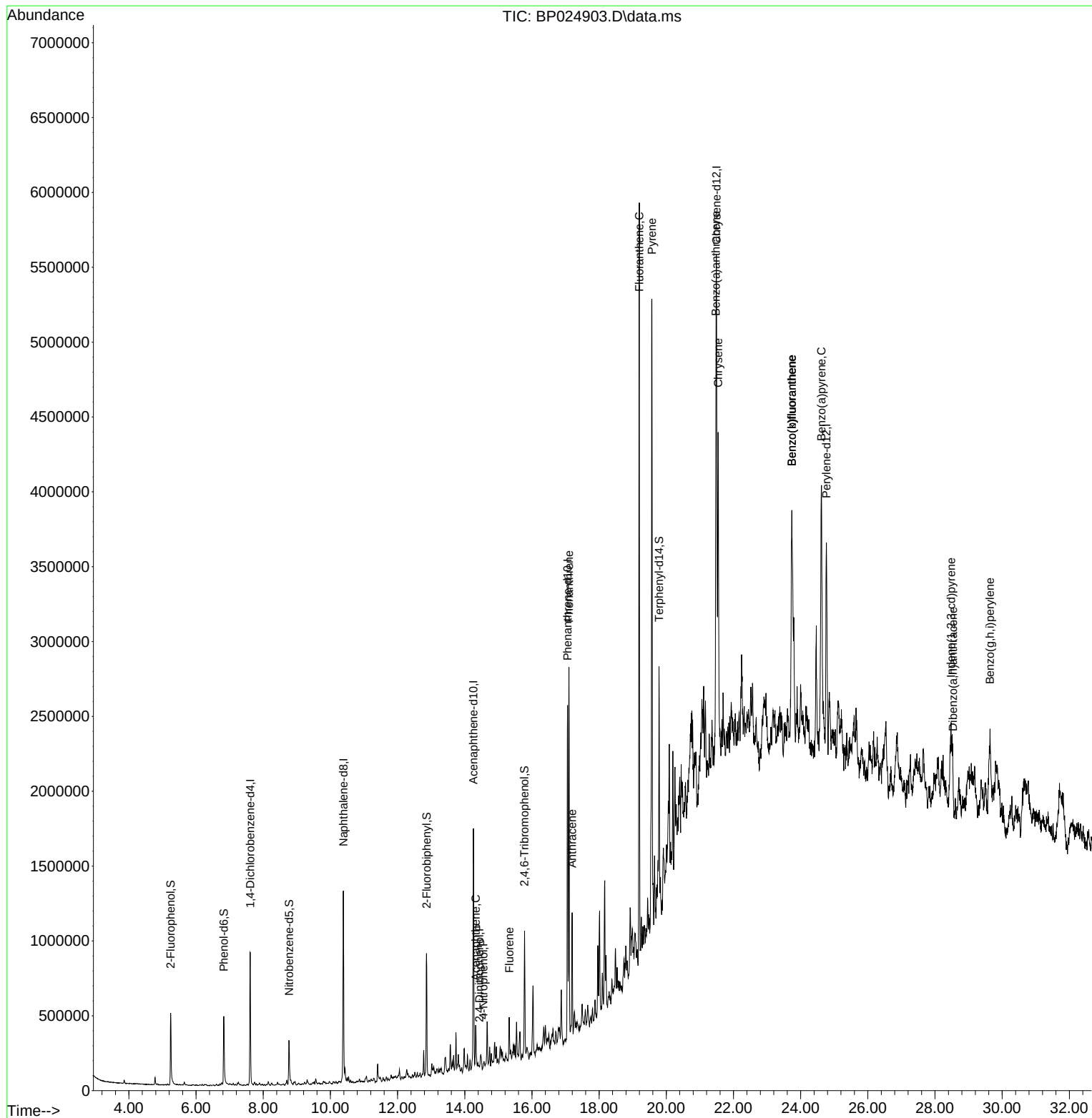
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.614	152	253210	20.000	ng	0.00
21) Naphthalene-d8	10.384	136	1025941	20.000	ng	0.00
39) Acenaphthene-d10	14.260	164	643470	20.000	ng	0.01
64) Phenanthrene-d10	17.060	188	1264809	20.000	ng	0.00
76) Chrysene-d12	21.495	240	1348451	20.000	ng	0.01
86) Perylene-d12	24.766	264	1615638	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.243	112	250519	16.515	ng	0.00
7) Phenol-d6	6.825	99	323915	16.139	ng	0.01
23) Nitrobenzene-d5	8.766	82	199790	9.463	ng	0.00
42) 2,4,6-Tribromophenol	15.778	330	161191	18.119	ng	0.00
45) 2-Fluorobiphenyl	12.860	172	469224	9.823	ng	0.00
79) Terphenyl-d14	19.783	244	727102	9.664	ng	-0.01
Target Compounds						
						Qvalue
52) Acenaphthene	14.325	154	104290	3.037	ng	98
54) 2,4-Dinitrophenol	14.437	184	186	5.589	ng	# 1
56) 4-Nitrophenol	14.554	139	1334	5.548	ng	# 43
58) Fluorene	15.325	166	121808	2.736	ng	# 99
71) Phenanthrene	17.101	178	1454428	20.809	ng	99
72) Anthracene	17.195	178	536376	7.577	ng	100
75) Fluoranthene	19.195	202	2817674	34.781	ng	99
78) Pyrene	19.572	202	2715633	32.235	ng	100
81) Benzo(a)anthracene	21.478	228	1452028	16.836	ng	98
83) Chrysene	21.542	228	1290961	15.798	ng	97
87) Indeno(1,2,3-cd)pyrene	28.477	276	1003131	8.510	ng	95
88) Benzo(b)fluoranthene	23.736	252	1837307	19.871	ng	# 93
89) Benzo(k)fluoranthene	23.736	252	1837307	19.521	ng	# 94
90) Benzo(a)pyrene	24.619	252	1443109	15.982	ng	95
91) Dibenzo(a,h)anthracene	28.536	278	261158	2.722	ng	# 77
92) Benzo(g,h,i)perylene	29.636	276	1020525	10.720	ng	97

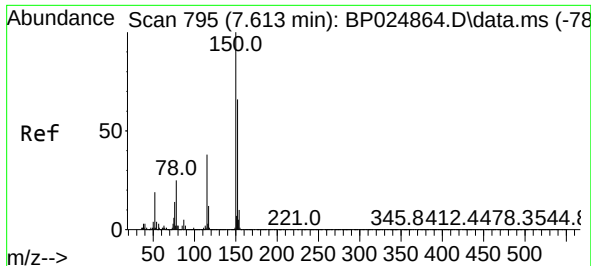
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP061025\
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 06 16:20:27 2025
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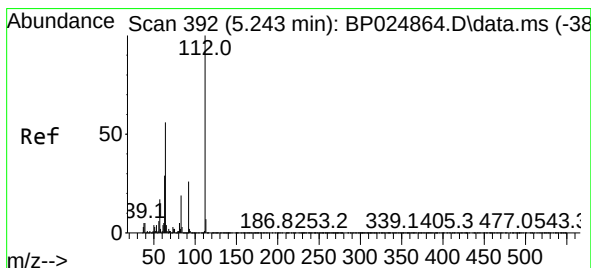
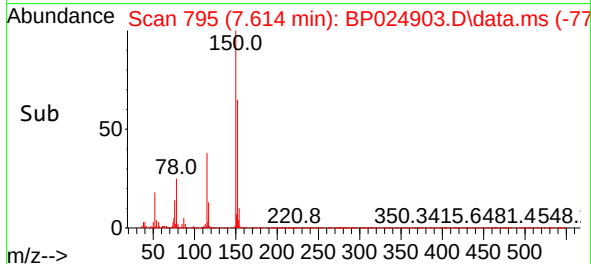
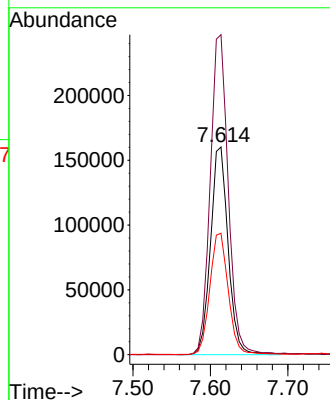
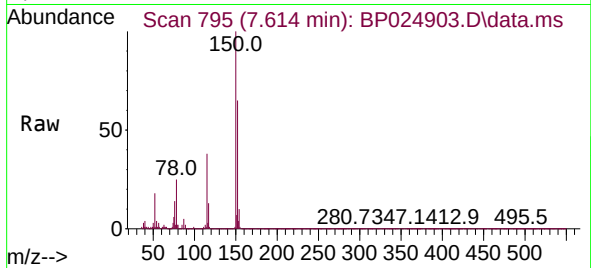




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.614 min Scan# 795
Delta R.T. 0.001 min
Lab File: BP024903.D
Acq: 10 Jun 2025 21:13

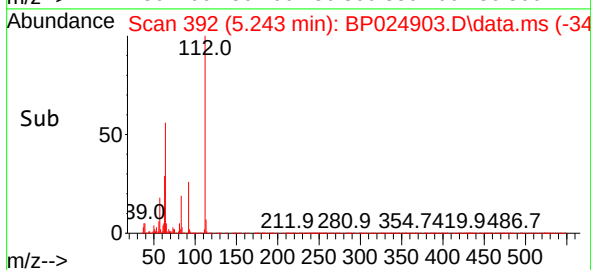
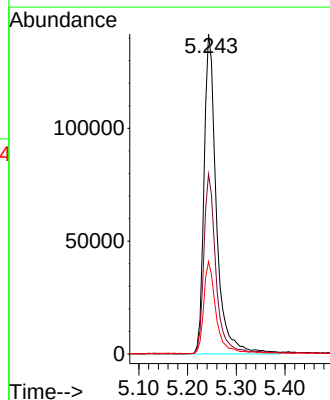
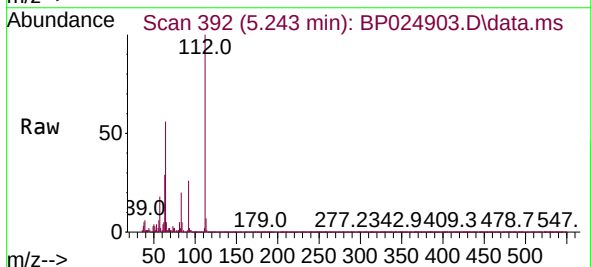
Instrument :
BNA_P
ClientSampleId :
TP-2

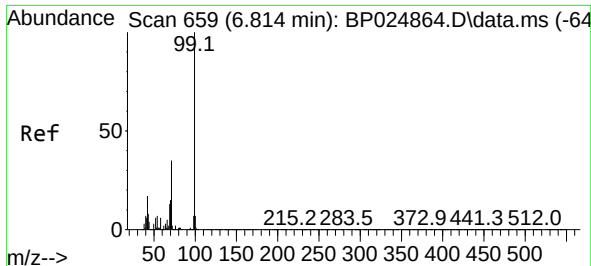
Tgt Ion:152 Resp: 253210
Ion Ratio Lower Upper
152 100
150 154.1 122.1 183.1
115 58.5 46.4 69.6



#5
2-Fluorophenol
Concen: 16.515 ng
RT: 5.243 min Scan# 392
Delta R.T. 0.000 min
Lab File: BP024903.D
Acq: 10 Jun 2025 21:13

Tgt Ion:112 Resp: 250519
Ion Ratio Lower Upper
112 100
64 56.2 44.7 67.1
63 28.8 23.5 35.3

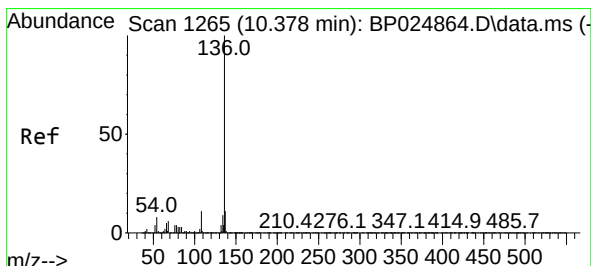
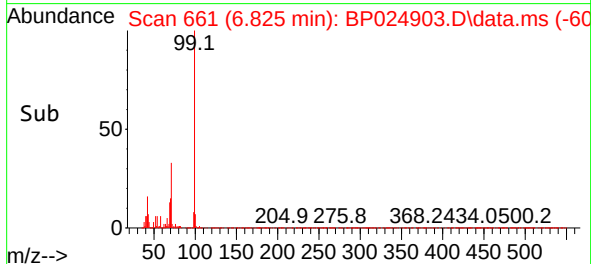
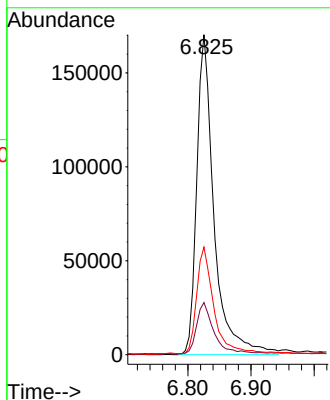
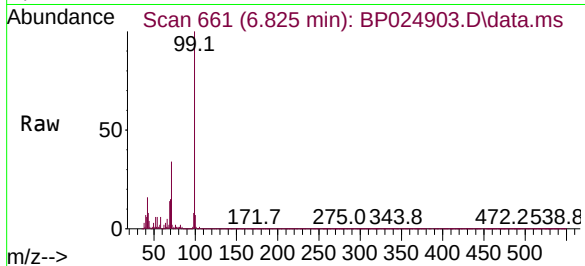




#7
Phenol-d6
Concen: 16.139 ng
RT: 6.825 min Scan# 60
Delta R.T. 0.012 min
Lab File: BP024903.D
Acq: 10 Jun 2025 21:13

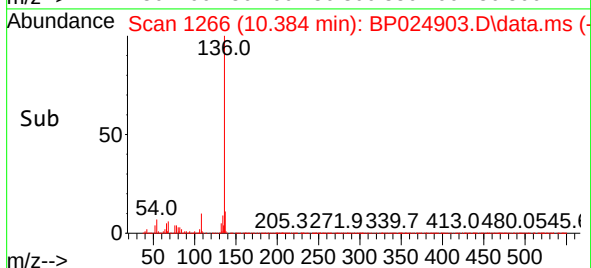
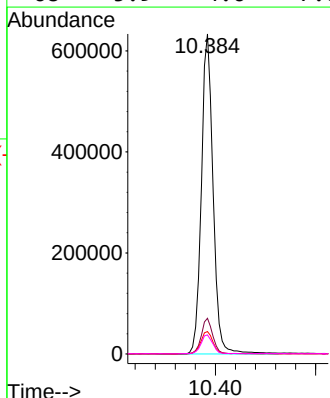
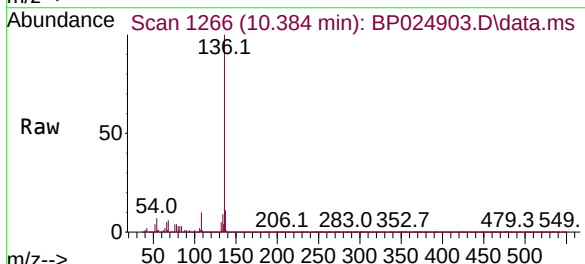
Instrument :
BNA_P
ClientSampleId :
TP-2

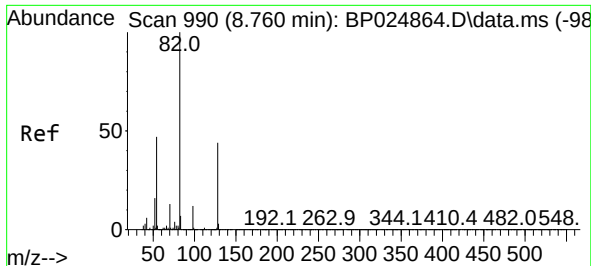
Tgt Ion: 99 Resp: 323915
Ion Ratio Lower Upper
99 100
42 16.3 13.4 20.2
71 33.6 27.6 41.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.384 min Scan# 1266
Delta R.T. 0.006 min
Lab File: BP024903.D
Acq: 10 Jun 2025 21:13

Tgt Ion: 136 Resp: 1025941
Ion Ratio Lower Upper
136 100
137 11.2 8.9 13.3
54 7.0 6.1 9.1
68 5.9 4.6 7.0

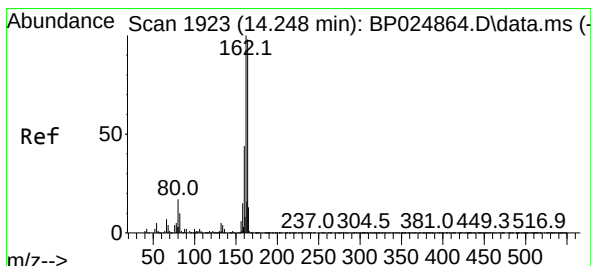
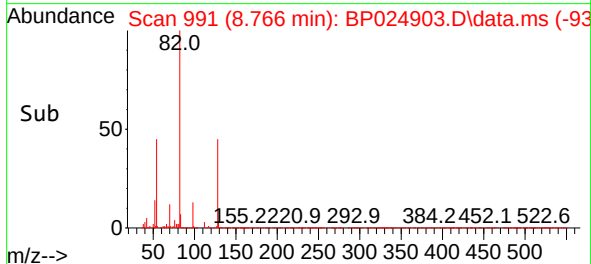
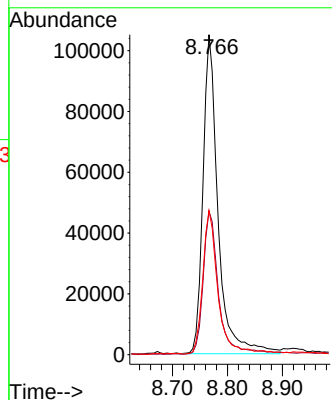
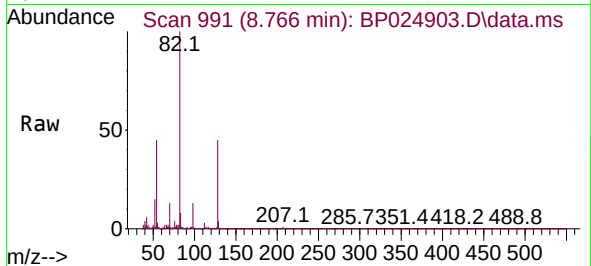




#23
Nitrobenzene-d5
Concen: 9.463 ng
RT: 8.766 min Scan# 991
Delta R.T. 0.006 min
Lab File: BP024903.D
Acq: 10 Jun 2025 21:13

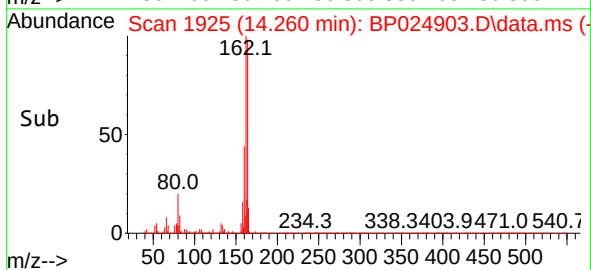
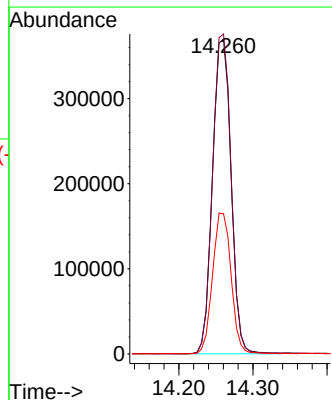
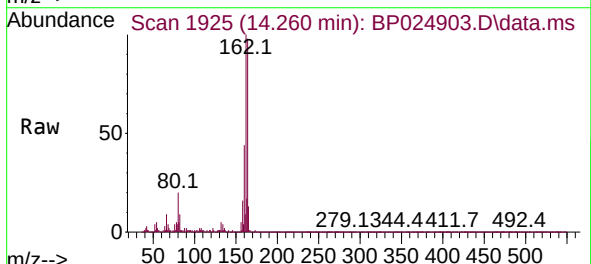
Instrument :
BNA_P
ClientSampleId :
TP-2

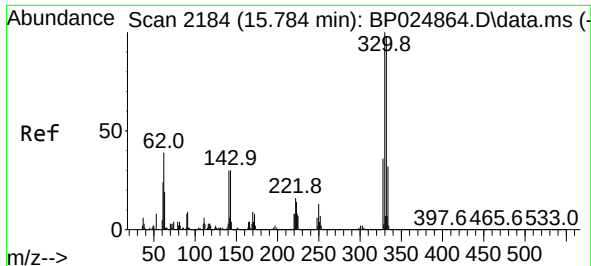
Tgt Ion: 82 Resp: 199790
Ion Ratio Lower Upper
82 100
128 44.9 35.3 52.9
54 45.0 37.4 56.0



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.260 min Scan# 1925
Delta R.T. 0.012 min
Lab File: BP024903.D
Acq: 10 Jun 2025 21:13

Tgt Ion:164 Resp: 643470
Ion Ratio Lower Upper
164 100
162 101.9 81.6 122.4
160 44.6 36.2 54.2

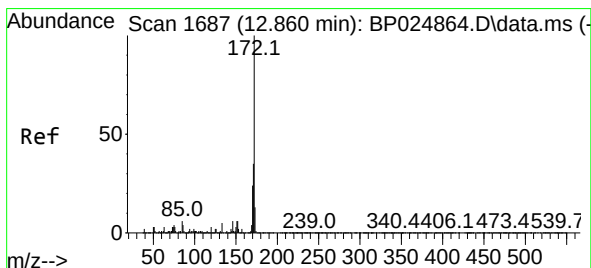
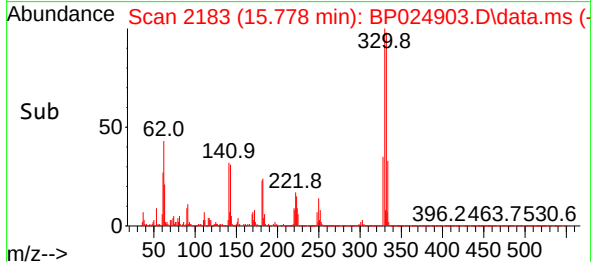
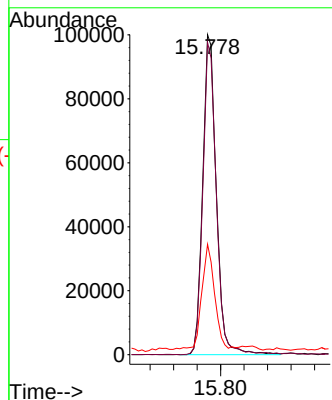
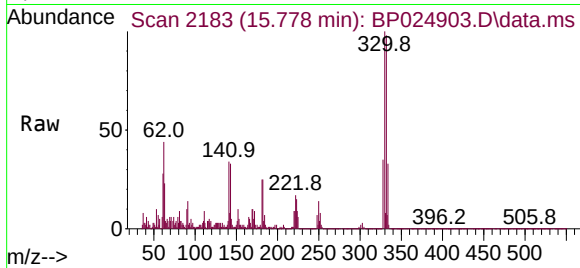




#42
2,4,6-Tribromophenol
Concen: 18.119 ng
RT: 15.778 min Scan# 2184
Delta R.T. -0.006 min
Lab File: BP024903.D
Acq: 10 Jun 2025 21:13

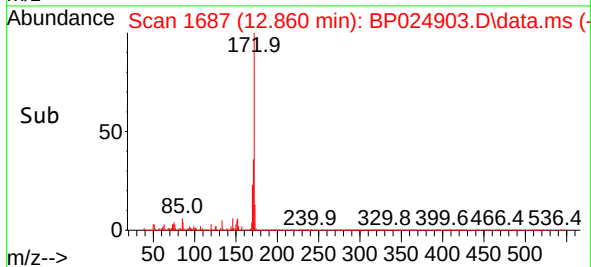
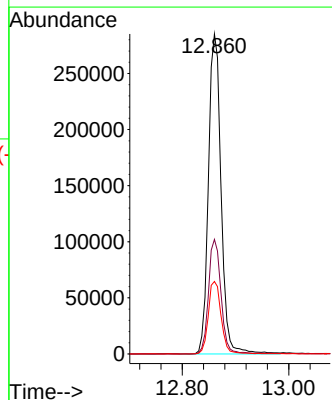
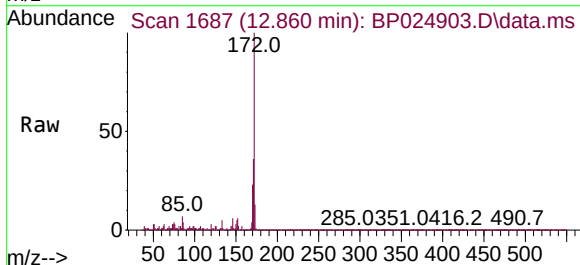
Instrument :
BNA_P
ClientSampleId :
TP-2

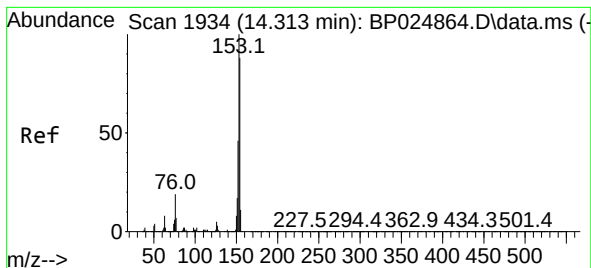
Tgt Ion:330 Resp: 161191
Ion Ratio Lower Upper
330 100
332 96.2 77.7 116.5
141 31.8 26.4 39.6



#45
2-Fluorobiphenyl
Concen: 9.823 ng
RT: 12.860 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BP024903.D
Acq: 10 Jun 2025 21:13

Tgt Ion:172 Resp: 469224
Ion Ratio Lower Upper
172 100
171 35.8 28.3 42.5
170 22.6 19.0 28.4





#52

Acenaphthene

Concen: 3.037 ng

RT: 14.325 min Scan# 1936

Delta R.T. 0.012 min

Lab File: BP024903.D

Acq: 10 Jun 2025 21:13

Instrument :

BNA_P

ClientSampleId :

TP-2

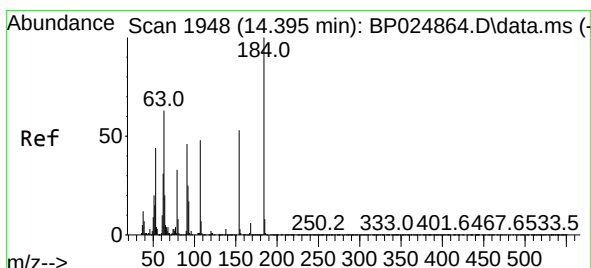
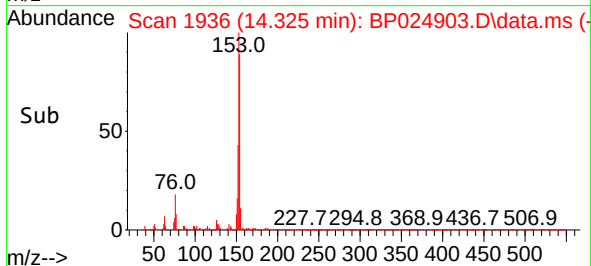
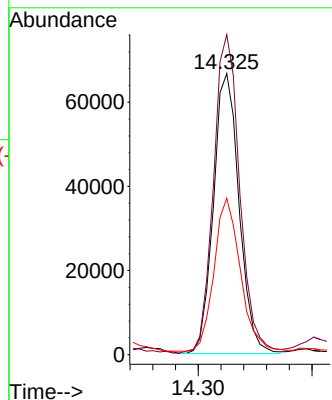
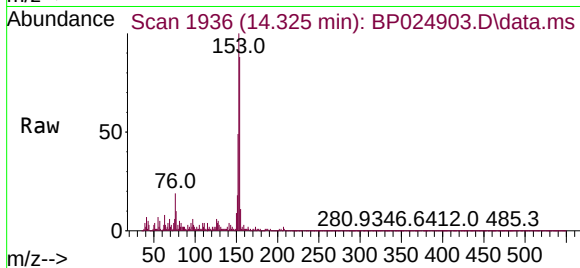
Tgt Ion:154 Resp: 104290

Ion Ratio Lower Upper

154 100

153 113.8 90.5 135.7

152 55.6 42.1 63.1



#54

2,4-Dinitrophenol

Concen: 5.589 ng

RT: 14.437 min Scan# 1955

Delta R.T. 0.042 min

Lab File: BP024903.D

Acq: 10 Jun 2025 21:13

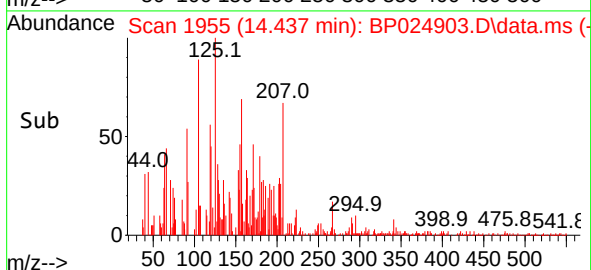
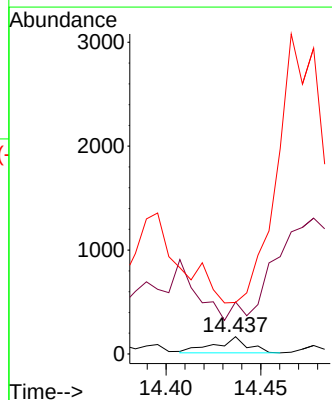
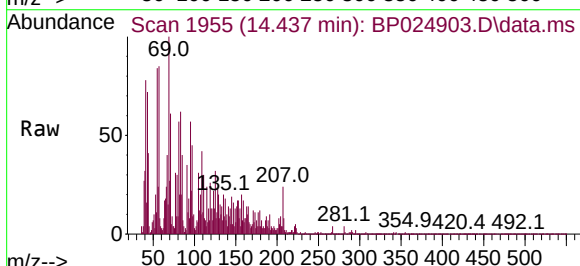
Tgt Ion:184 Resp: 186

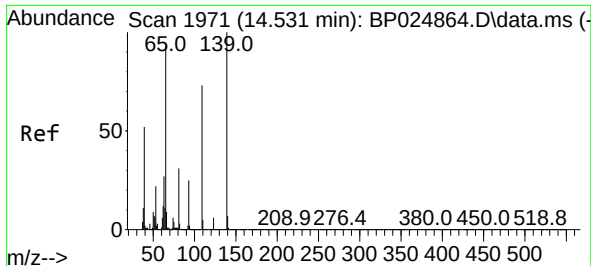
Ion Ratio Lower Upper

184 100

63 301.8 51.0 76.4#

154 299.4 51.7 77.5#

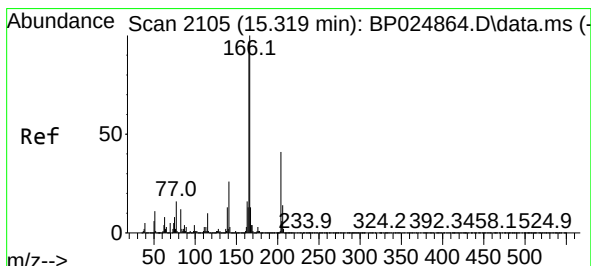
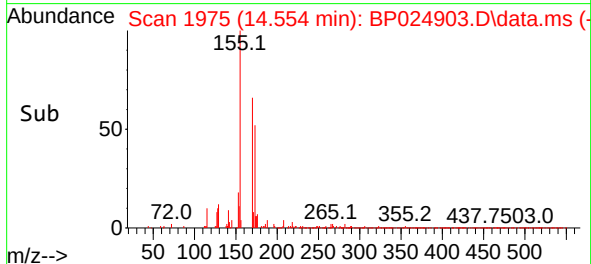
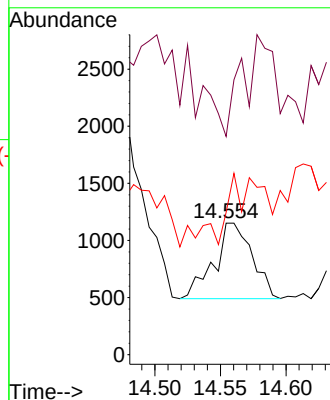
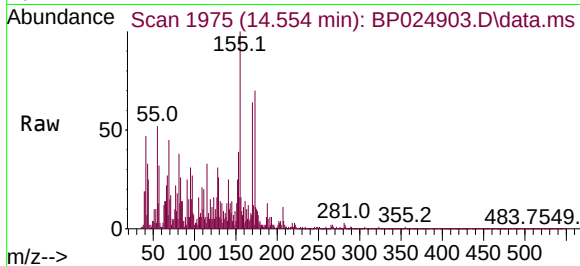




#56
4-Nitrophenol
Concen: 5.548 ng
RT: 14.554 min Scan# 1975
Delta R.T. 0.023 min
Lab File: BP024903.D
Acq: 10 Jun 2025 21:13

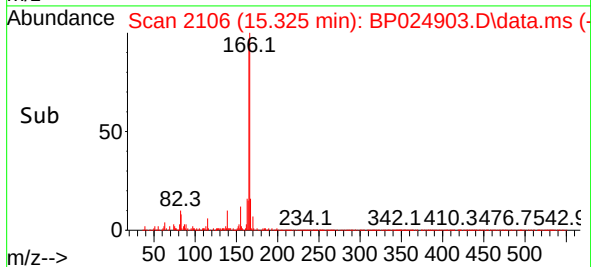
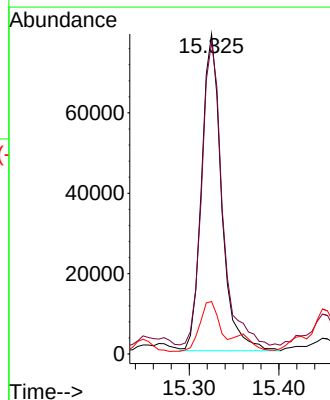
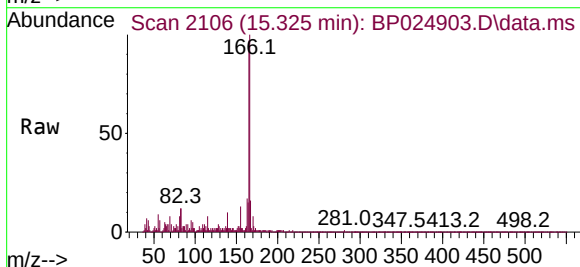
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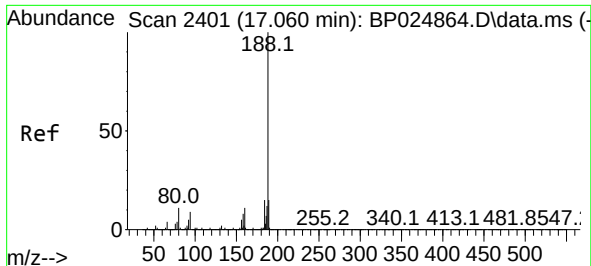
Tgt Ion:139 Resp: 1334
Ion Ratio Lower Upper
139 100
109 165.9 53.1 93.1#
65 108.1 73.0 113.0



#58
Fluorene
Concen: 2.736 ng
RT: 15.325 min Scan# 2106
Delta R.T. 0.006 min
Lab File: BP024903.D
Acq: 10 Jun 2025 21:13

Tgt Ion:166 Resp: 121808
Ion Ratio Lower Upper
166 100
165 97.5 77.7 116.5
167 16.4 10.6 16.0#

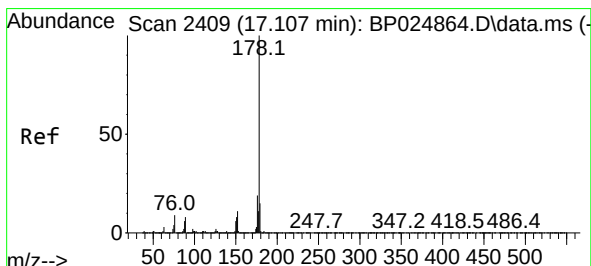
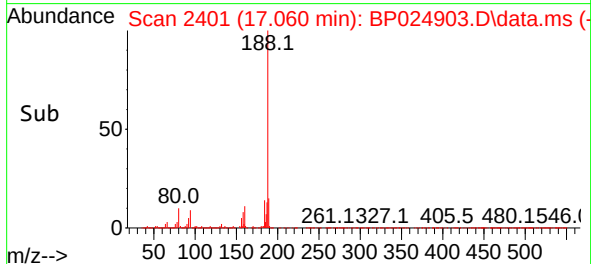
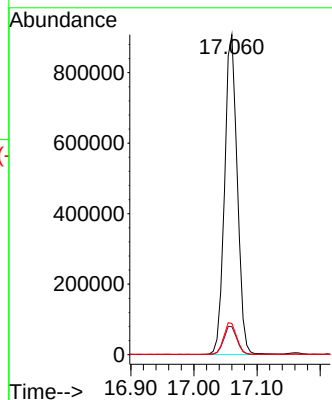
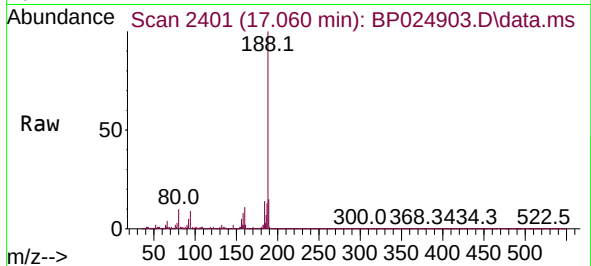




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.060 min Scan# 2401
Delta R.T. 0.000 min
Lab File: BP024903.D
Acq: 10 Jun 2025 21:13

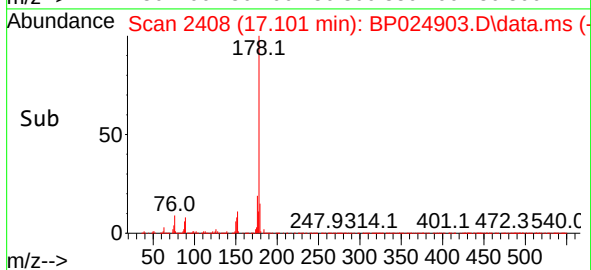
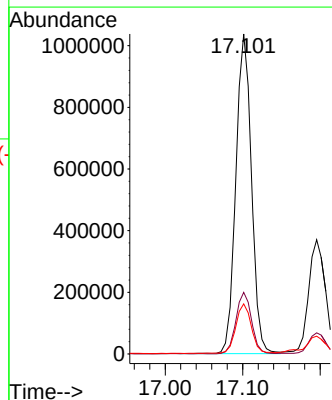
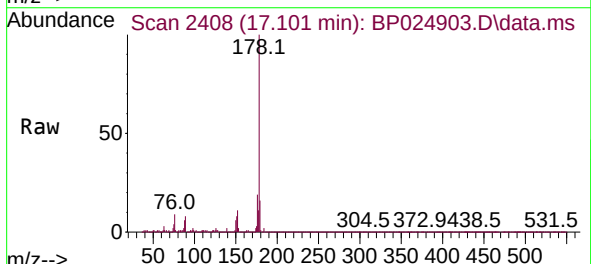
Instrument :
BNA_P
ClientSampleId :
TP-2

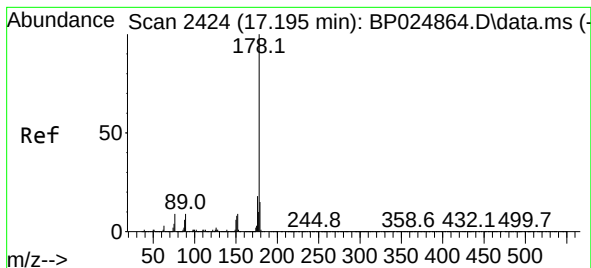
Tgt Ion:188 Resp: 1264809
Ion Ratio Lower Upper
188 100
94 8.8 7.3 10.9
80 9.8 8.5 12.7



#71
Phenanthrene
Concen: 20.809 ng
RT: 17.101 min Scan# 2408
Delta R.T. -0.006 min
Lab File: BP024903.D
Acq: 10 Jun 2025 21:13

Tgt Ion:178 Resp: 1454428
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.6 12.1 18.1





#72

Anthracene

Concen: 7.577 ng

RT: 17.195 min Scan# 2424

Delta R.T. 0.000 min

Lab File: BP024903.D

Acq: 10 Jun 2025 21:13

Instrument :

BNA_P

ClientSampleId :

TP-2

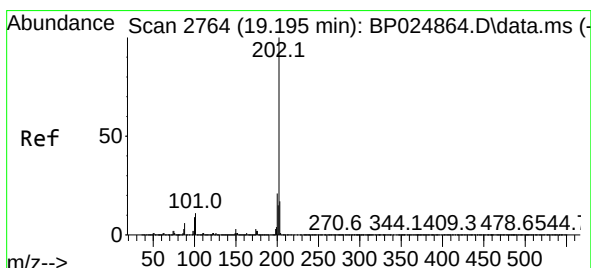
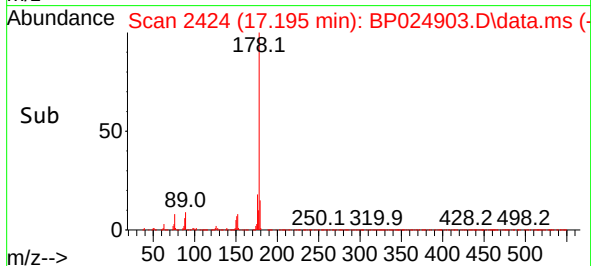
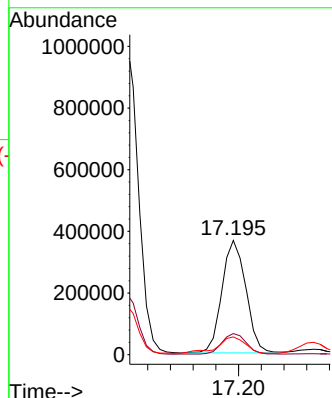
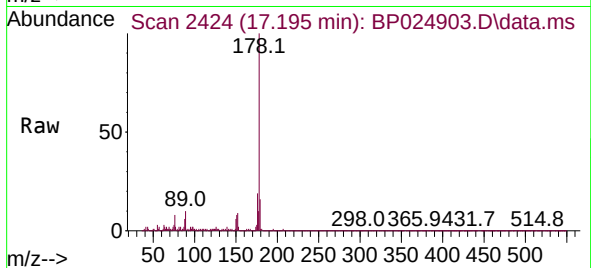
Tgt Ion:178 Resp: 536376

Ion Ratio Lower Upper

178 100

176 18.5 14.7 22.1

179 15.6 12.3 18.5



#75

Fluoranthene

Concen: 34.781 ng

RT: 19.195 min Scan# 2764

Delta R.T. 0.000 min

Lab File: BP024903.D

Acq: 10 Jun 2025 21:13

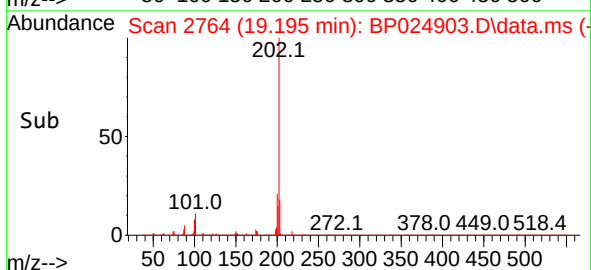
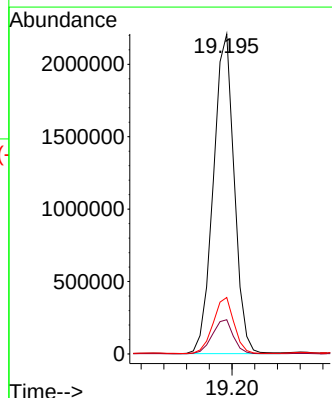
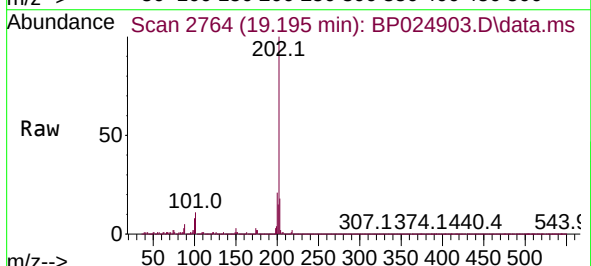
Tgt Ion:202 Resp: 2817674

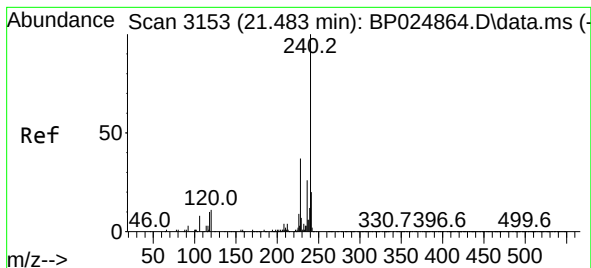
Ion Ratio Lower Upper

202 100

101 10.7 0.0 31.4

203 17.7 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.495 min Scan# 3155

Delta R.T. 0.012 min

Lab File: BP024903.D

Acq: 10 Jun 2025 21:13

Instrument :

BNA_P

ClientSampleId :

TP-2

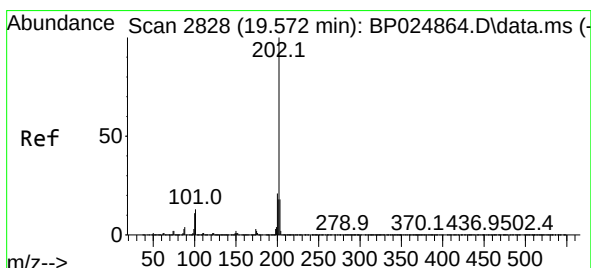
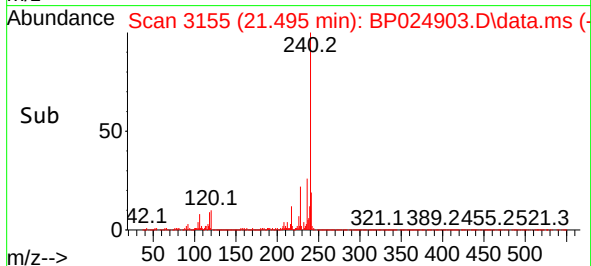
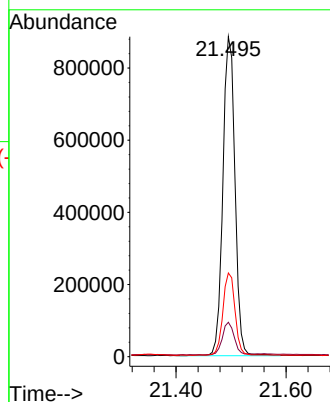
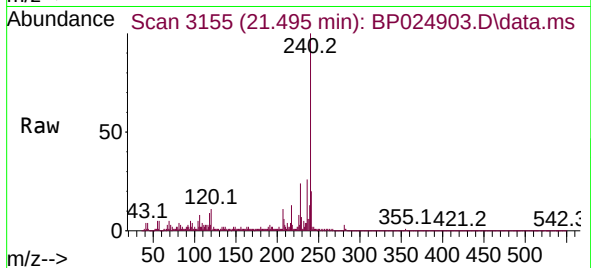
Tgt Ion:240 Resp: 1348451

Ion Ratio Lower Upper

240 100

120 10.7 8.9 13.3

236 26.2 20.9 31.3



#78

Pyrene

Concen: 32.235 ng

RT: 19.572 min Scan# 2828

Delta R.T. 0.000 min

Lab File: BP024903.D

Acq: 10 Jun 2025 21:13

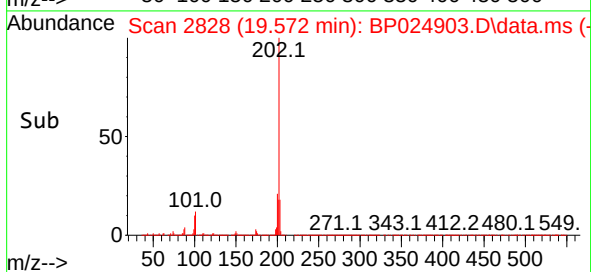
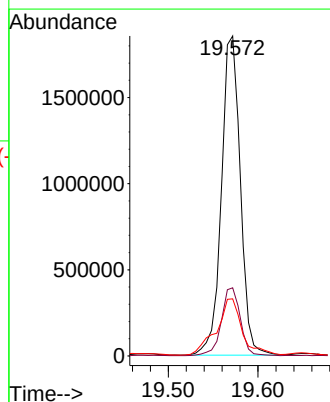
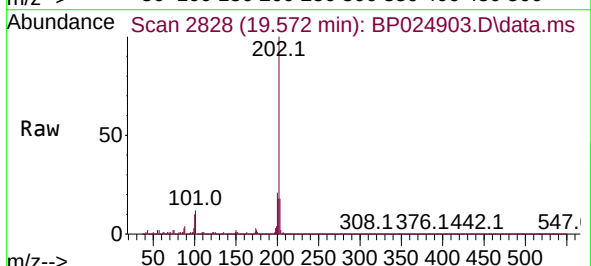
Tgt Ion:202 Resp: 2715633

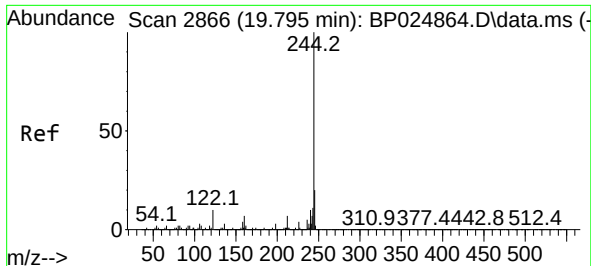
Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

203 17.9 14.0 21.0

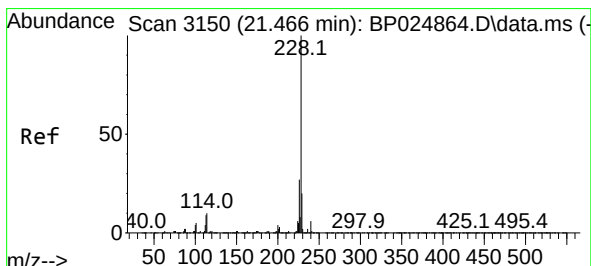
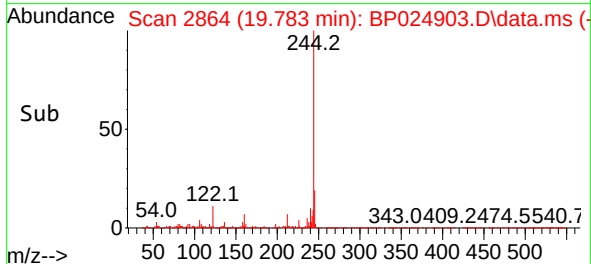
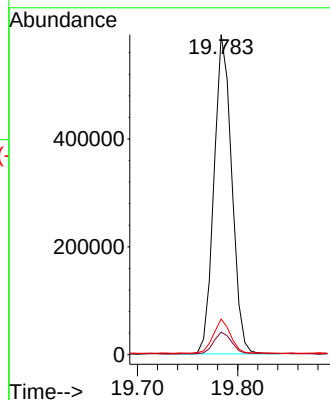
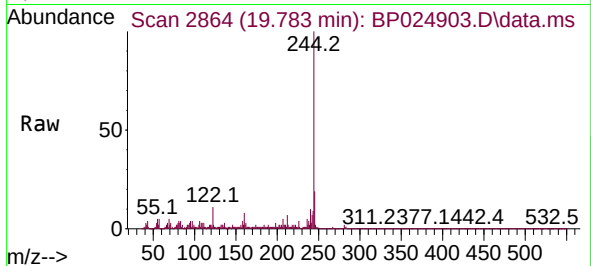




#79
 Terphenyl-d14
 Concen: 9.664 ng
 RT: 19.783 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BP024903.D
 Acq: 10 Jun 2025 21:13

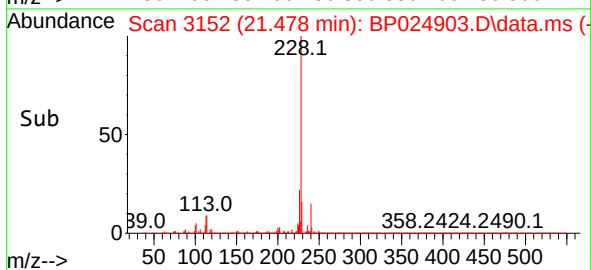
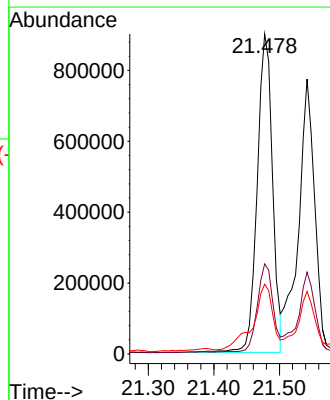
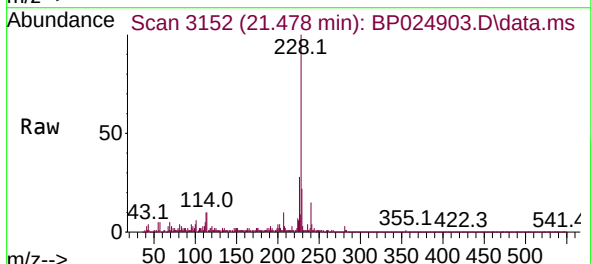
Instrument :
 BNA_P
 ClientSampleId :
 TP-2

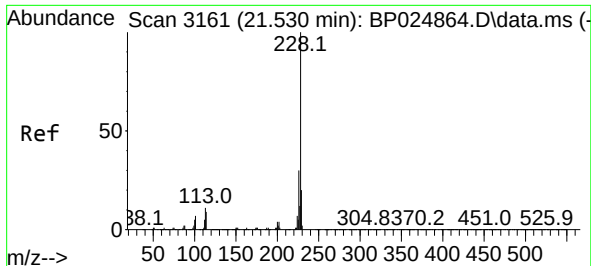
Tgt Ion:244 Resp: 727102
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.6 8.4
 122 11.2 7.7 11.5



#81
 Benzo(a)anthracene
 Concen: 16.836 ng
 RT: 21.478 min Scan# 3152
 Delta R.T. 0.012 min
 Lab File: BP024903.D
 Acq: 10 Jun 2025 21:13

Tgt Ion:228 Resp: 1452028
 Ion Ratio Lower Upper
 228 100
 226 28.2 22.1 33.1
 229 21.8 15.9 23.9

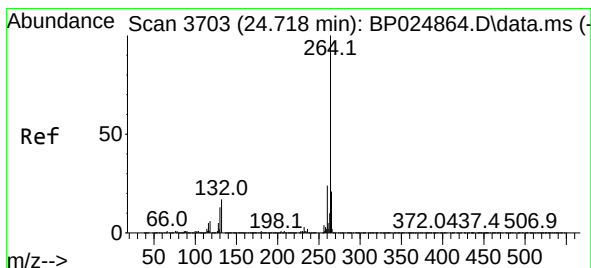
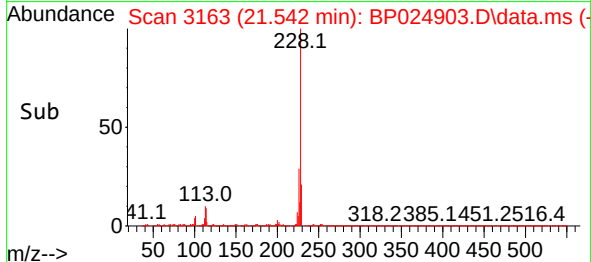
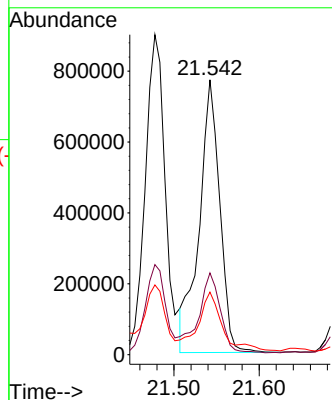
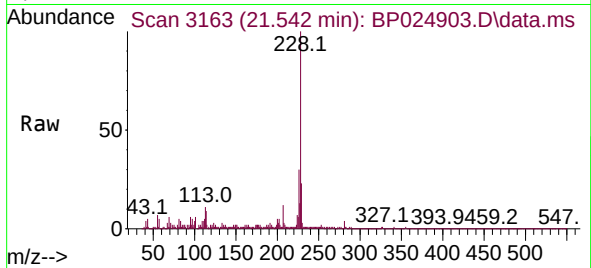




#83
Chrysene
Concen: 15.798 ng
RT: 21.542 min Scan# 3163
Delta R.T. 0.012 min
Lab File: BP024903.D
Acq: 10 Jun 2025 21:13

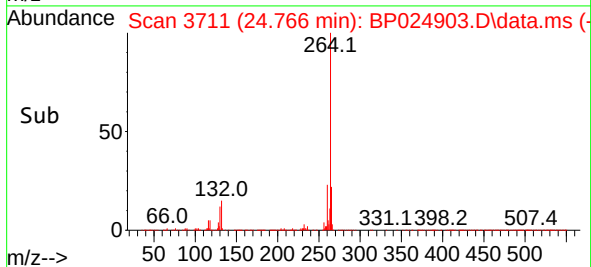
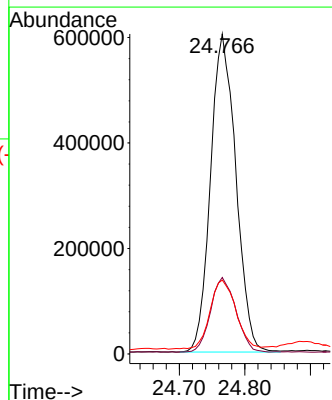
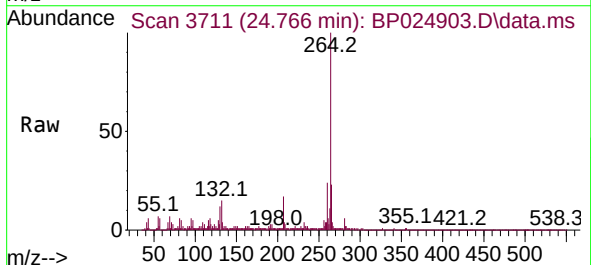
Instrument :
BNA_P
ClientSampleId :
TP-2

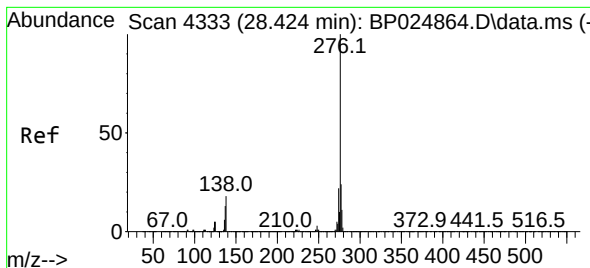
Tgt Ion:228 Resp: 1290961
Ion Ratio Lower Upper
228 100
226 29.7 23.8 35.6
229 22.7 15.6 23.4



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.766 min Scan# 3711
Delta R.T. 0.047 min
Lab File: BP024903.D
Acq: 10 Jun 2025 21:13

Tgt Ion:264 Resp: 1615638
Ion Ratio Lower Upper
264 100
260 23.9 19.0 28.4
265 23.1 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 8.510 ng

RT: 28.477 min Scan# 4333

Delta R.T. 0.053 min

Lab File: BP024903.D

Acq: 10 Jun 2025 21:13

Instrument :

BNA_P

ClientSampleId :

TP-2

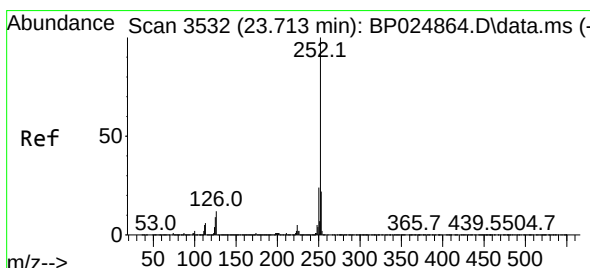
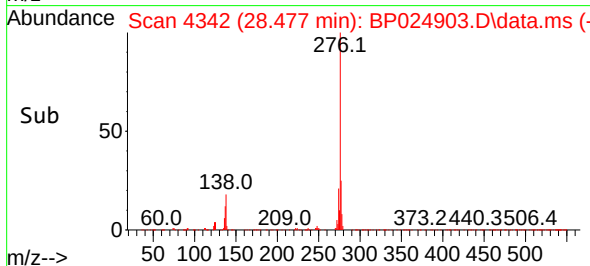
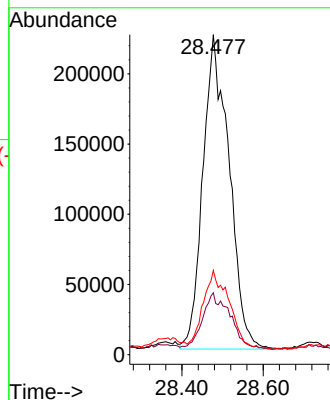
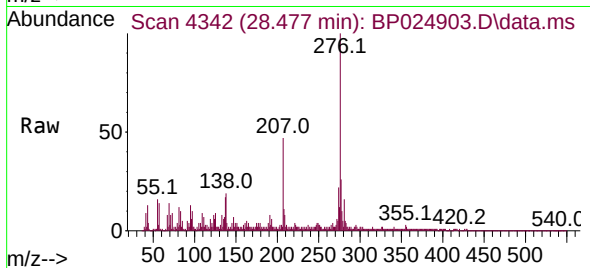
Tgt Ion:276 Resp: 1003131

Ion Ratio Lower Upper

276 100

138 18.6 18.6 27.8

277 25.8 20.2 30.4



#88

Benzo(b)fluoranthene

Concen: 19.871 ng

RT: 23.736 min Scan# 3536

Delta R.T. 0.024 min

Lab File: BP024903.D

Acq: 10 Jun 2025 21:13

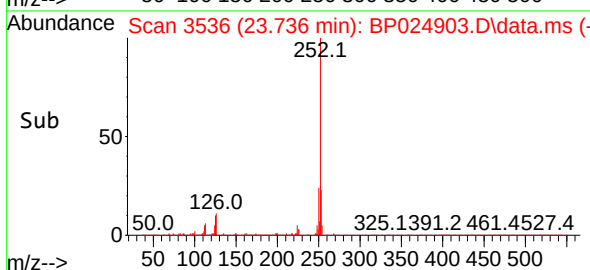
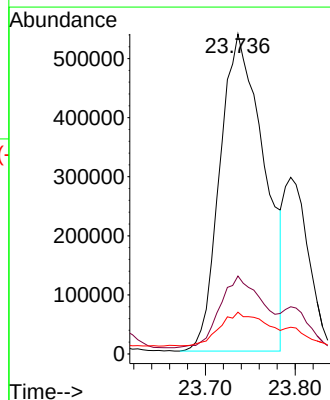
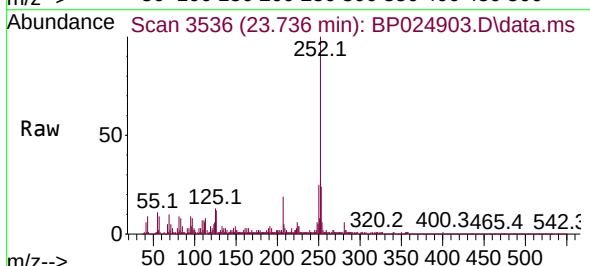
Tgt Ion:252 Resp: 1837307

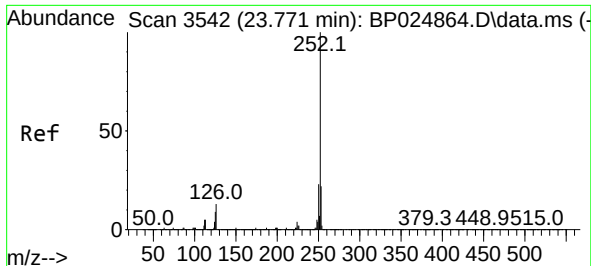
Ion Ratio Lower Upper

252 100

253 24.3 17.6 26.4

125 13.0 7.1 10.7#

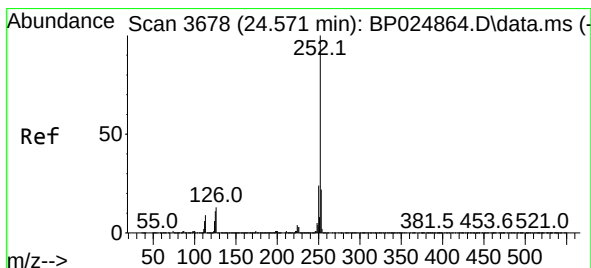
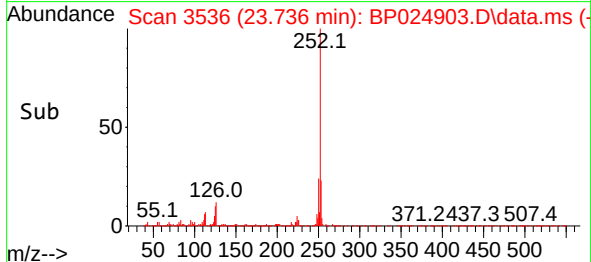
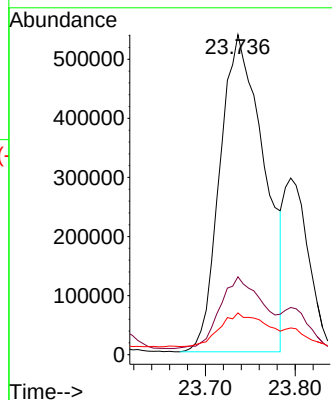
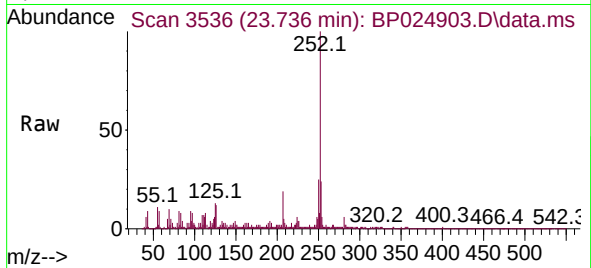




#89
Benzo(k)fluoranthene
Concen: 19.521 ng
RT: 23.736 min Scan# 31
Delta R.T. -0.035 min
Lab File: BP024903.D
Acq: 10 Jun 2025 21:13

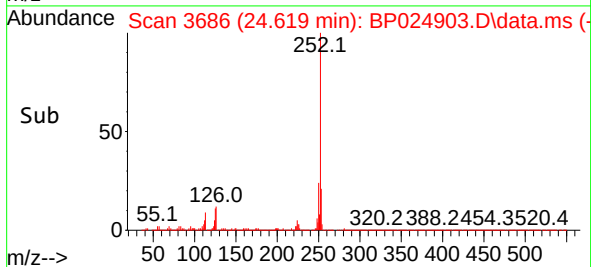
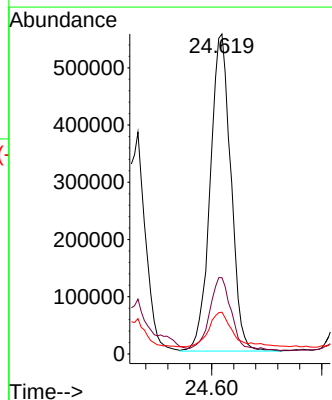
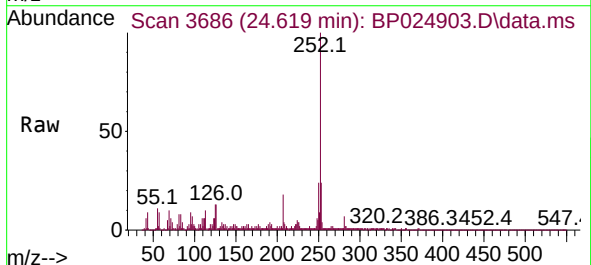
Instrument :
BNA_P
ClientSampleId :
TP-2

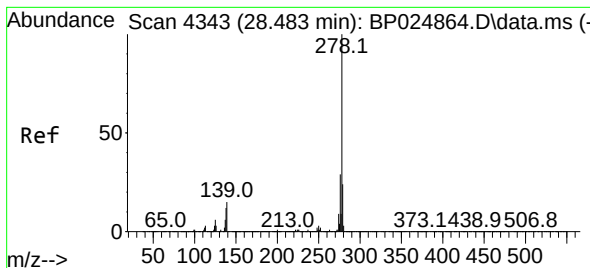
Tgt Ion:252 Resp: 1837307
Ion Ratio Lower Upper
252 100
253 24.3 17.7 26.5
125 13.0 7.4 11.0#



#90
Benzo(a)pyrene
Concen: 15.982 ng
RT: 24.619 min Scan# 3686
Delta R.T. 0.047 min
Lab File: BP024903.D
Acq: 10 Jun 2025 21:13

Tgt Ion:252 Resp: 1443109
Ion Ratio Lower Upper
252 100
253 23.9 17.5 26.3
125 13.1 8.8 13.2





#91

Dibenzo(a,h)anthracene

Concen: 2.722 ng

RT: 28.536 min Scan# 41

Delta R.T. 0.053 min

Lab File: BP024903.D

Acq: 10 Jun 2025 21:13

Instrument :

BNA_P

ClientSampleId :

TP-2

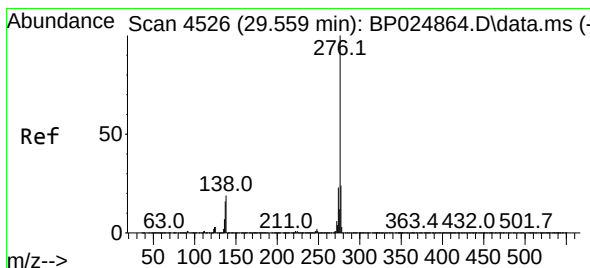
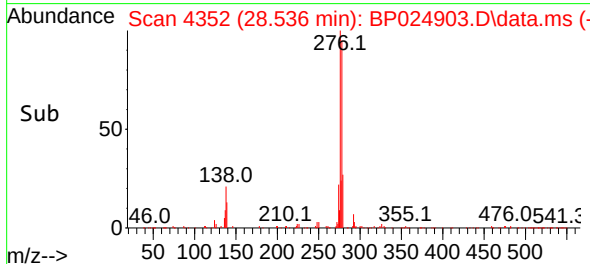
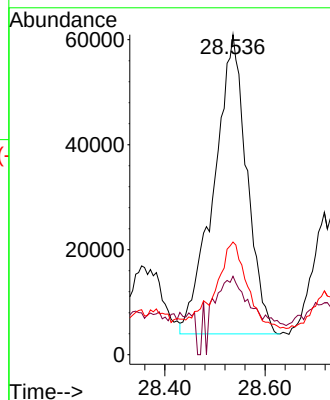
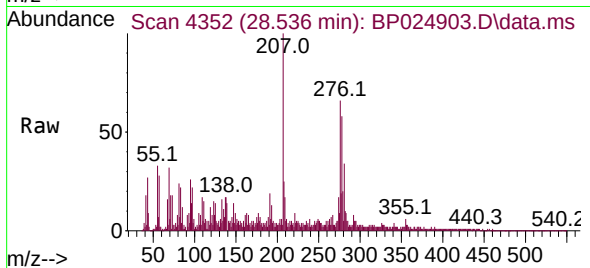
Tgt Ion:278 Resp: 261158

Ion Ratio Lower Upper

278 100

139 24.5 12.0 18.0#

279 35.2 19.1 28.7#



#92

Benzo(g,h,i)perylene

Concen: 10.720 ng

RT: 29.636 min Scan# 4539

Delta R.T. 0.077 min

Lab File: BP024903.D

Acq: 10 Jun 2025 21:13

Tgt Ion:276 Resp: 1020525

Ion Ratio Lower Upper

276 100

277 25.7 19.1 28.7

138 18.8 15.4 23.2

