

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041825\
 Data File : BM049975.D
 Acq On : 18 Apr 2025 21:02
 Operator : RC/JU
 Sample : Q1825-07 10X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 TP-11

Quant Time: Apr 18 23:11:56 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)

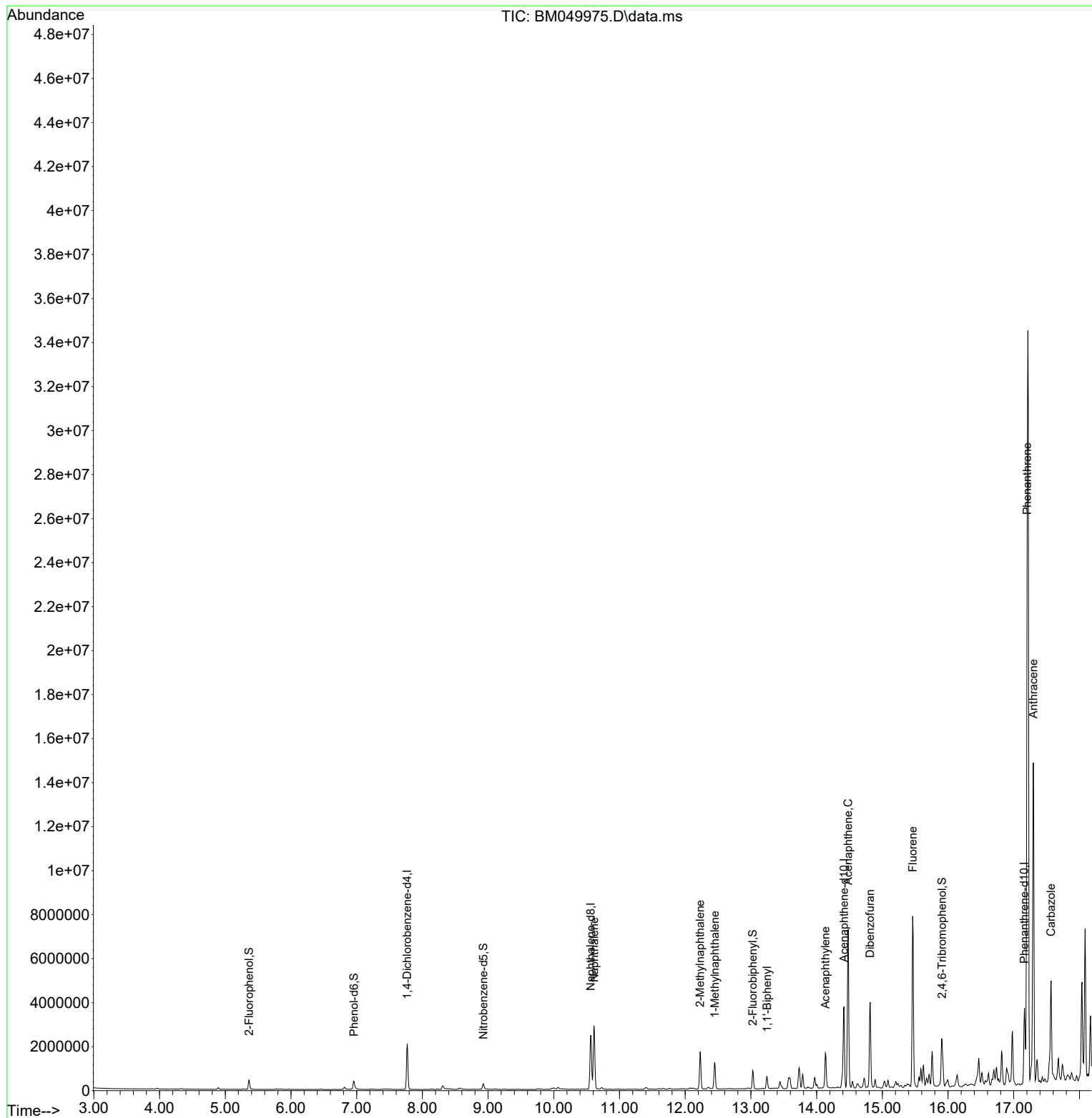
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.769	152	609672	20.000	ng	-0.01
21) Naphthalene-d8	10.563	136	2165136	20.000	ng	-0.01
39) Acenaphthene-d10	14.416	164	1357281	20.000	ng	0.00
64) Phenanthrene-d10	17.162	188	2220739	20.000	ng	0.00
76) Chrysene-d12	21.409	240	2047378	20.000	ng	# 0.00
86) Perylene-d12	24.421	264	2083284	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.363	112	212209	5.911	ng	0.00
7) Phenol-d6	6.957	99	259717	5.814	ng	0.00
23) Nitrobenzene-d5	8.928	82	152828	3.931	ng	0.00
42) 2,4,6-Tribromophenol	15.910	330	105325	5.335	ng	0.00
45) 2-Fluorobiphenyl	13.027	172	452244	4.518	ng	-0.02
79) Terphenyl-d14	19.786	244	460704	4.217	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.616	128	2428435	21.828	ng	99
37) 2-Methylnaphthalene	12.227	142	822088	10.488	ng	100
38) 1-Methylnaphthalene	12.451	142	596644	7.813	ng	98
46) 1,1'-Biphenyl	13.245	154	297017	2.944	ng	99
49) Acenaphthylene	14.133	152	1192136	10.320	ng	98
52) Acenaphthene	14.480	154	2627927	35.765	ng	99
55) Dibenzofuran	14.816	168	2540625	20.683	ng	98
58) Fluorene	15.463	166	3498292	35.829	ng	99
71) Phenanthrene	17.204	178	19240604m	158.034	ng	
72) Anthracene	17.298	178	9514073	79.296	ng	99
73) Carbazole	17.568	167	3029271	26.806	ng	99
75) Fluoranthene	19.221	202	20643780m	137.904	ng	
78) Pyrene	19.586	202	21358919m	151.373	ng	
81) Benzo(a)anthracene	21.386	228	17618349	129.482	ng	# 89
83) Chrysene	21.456	228	15872090	122.696	ng	# 80
87) Indeno(1,2,3-cd)pyrene	27.850	276	10854521	69.898	ng	# 94
88) Benzo(b)fluoranthene	23.491	252	23228763	174.585	ng	97
89) Benzo(k)fluoranthene	23.538	252	8985214m	69.687	ng	
90) Benzo(a)pyrene	24.303	252	18207628m	155.732	ng	
91) Dibenzo(a,h)anthracene	27.879	278	2796088	21.860	ng	94
92) Benzo(g,h,i)perylene	28.920	276	9278033	70.983	ng	97

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041825\
Data File : BM049975.D
Acq On : 18 Apr 2025 21:02
Operator : RC/JU
Sample : Q1825-07 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
TP-11

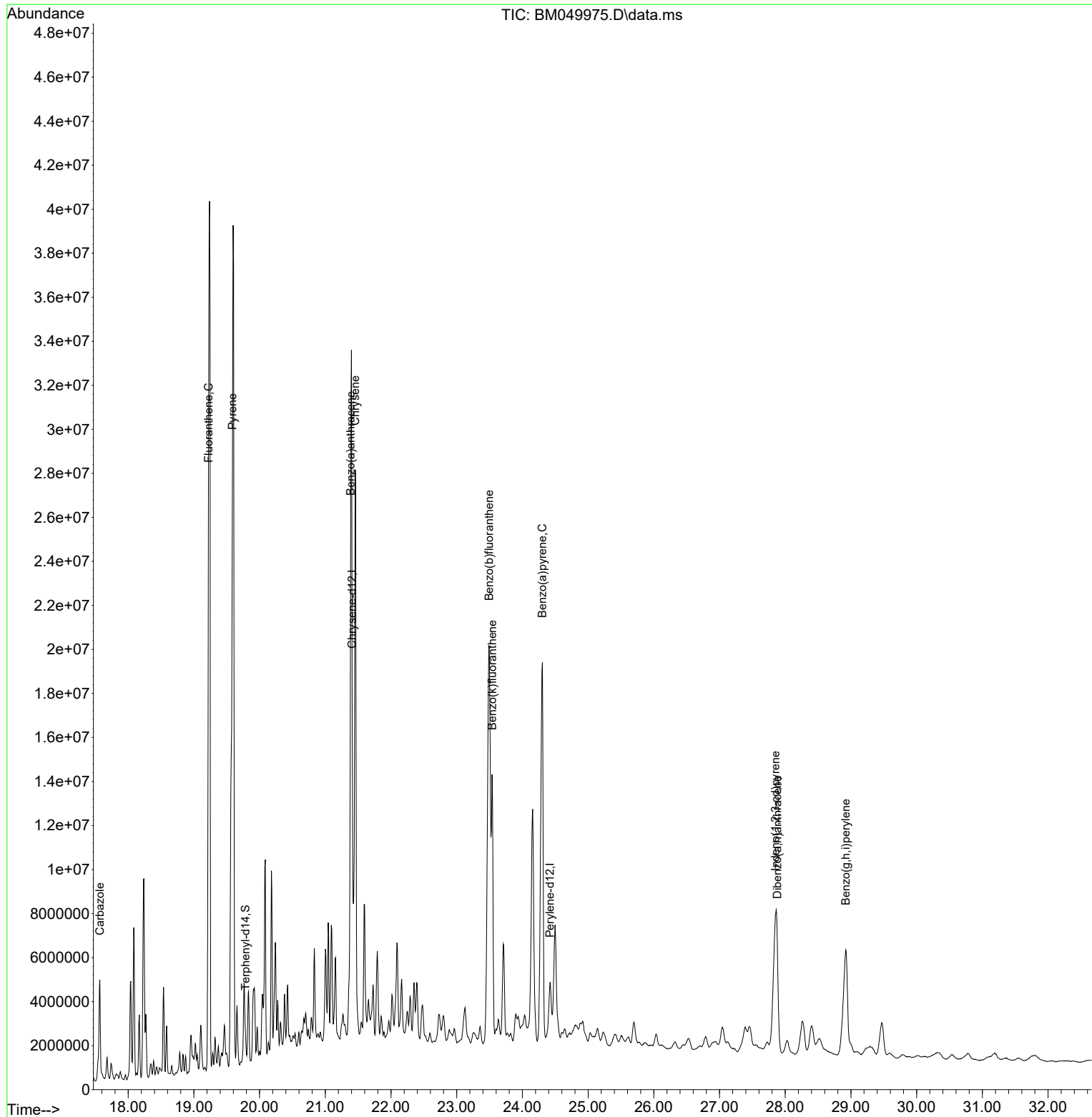
Quant Time: Apr 18 23:11:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041825\
Data File : BM049975.D
Acq On : 18 Apr 2025 21:02
Operator : RC/JU
Sample : Q1825-07 10X
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
TP-11

Quant Time: Apr 18 23:11:56 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

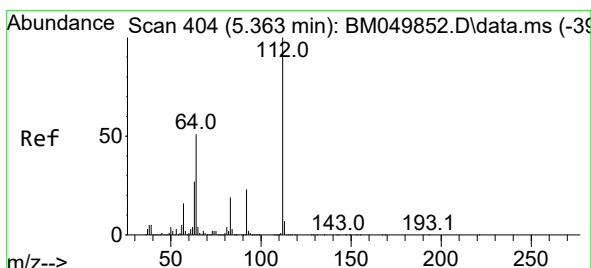
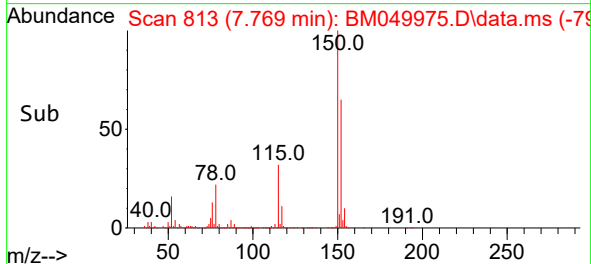
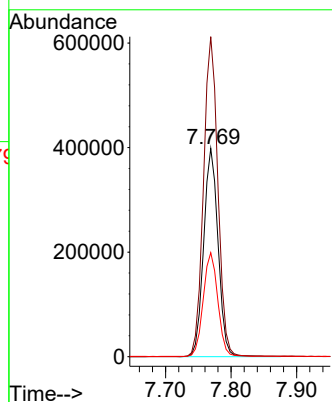
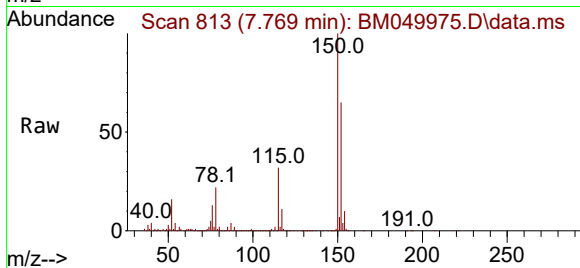




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 815
Delta R.T. -0.012 min
Lab File: BM049975.D
Acq: 18 Apr 2025 21:02

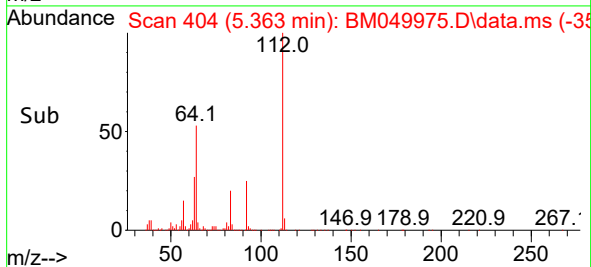
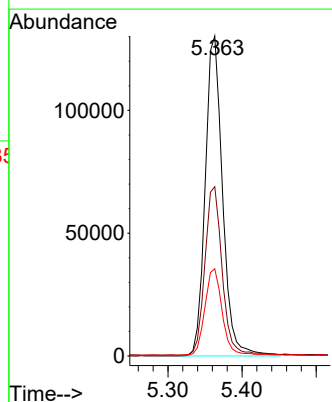
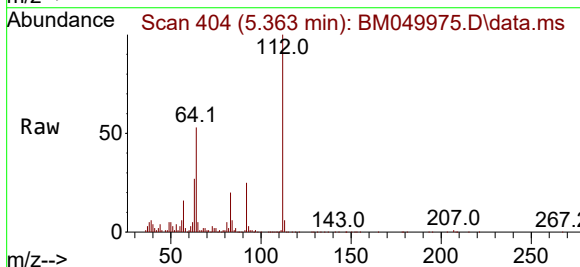
Instrument :
BNA_M
ClientSampleId :
TP-11

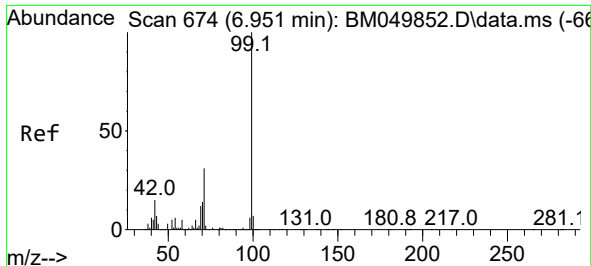
Tgt Ion:152 Resp: 609672
Ion Ratio Lower Upper
152 100
150 153.7 124.3 186.5
115 49.9 41.1 61.7



#5
2-Fluorophenol
Concen: 5.911 ng
RT: 5.363 min Scan# 404
Delta R.T. -0.000 min
Lab File: BM049975.D
Acq: 18 Apr 2025 21:02

Tgt Ion:112 Resp: 212209
Ion Ratio Lower Upper
112 100
64 52.9 41.0 61.6
63 27.2 21.5 32.3

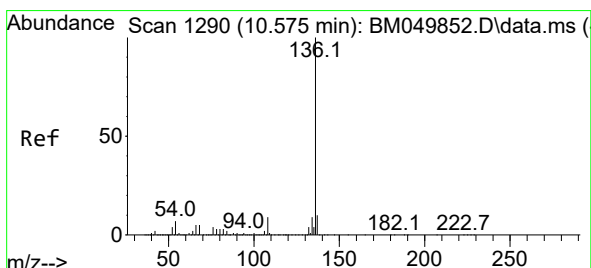
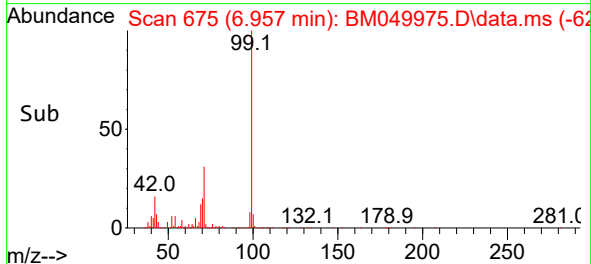
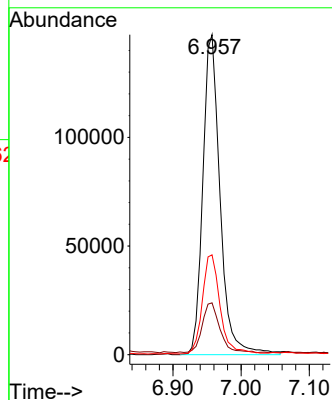
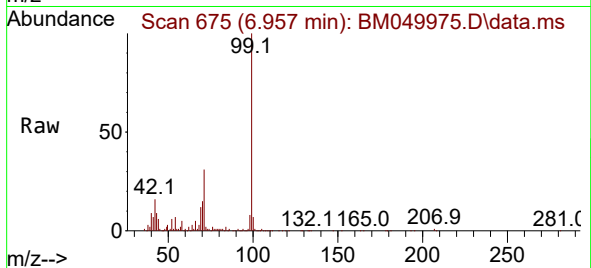




#7
Phenol-d6
Concen: 5.814 ng
RT: 6.957 min Scan# 61
Delta R.T. 0.006 min
Lab File: BM049975.D
Acq: 18 Apr 2025 21:02

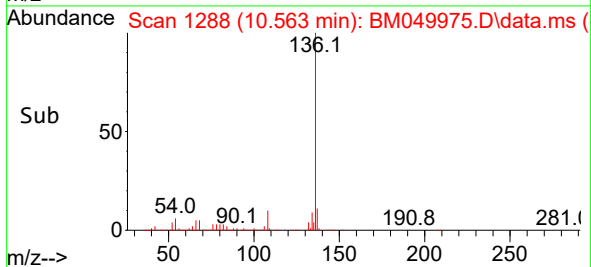
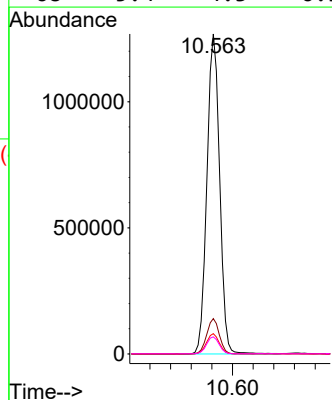
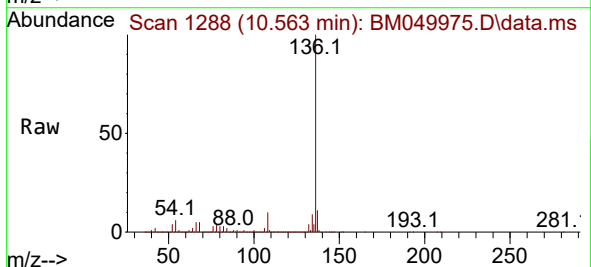
Instrument :
BNA_M
ClientSampleId :
TP-11

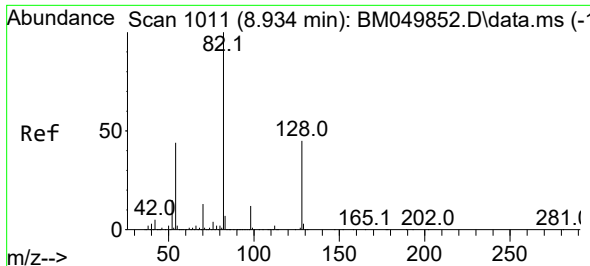
Tgt Ion: 99 Resp: 259717
Ion Ratio Lower Upper
99 100
42 16.2 12.1 18.1
71 31.2 24.9 37.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.563 min Scan# 1288
Delta R.T. -0.012 min
Lab File: BM049975.D
Acq: 18 Apr 2025 21:02

Tgt Ion: 136 Resp: 2165136
Ion Ratio Lower Upper
136 100
137 11.0 8.4 12.6
54 6.4 5.3 7.9
68 5.4 4.3 6.5

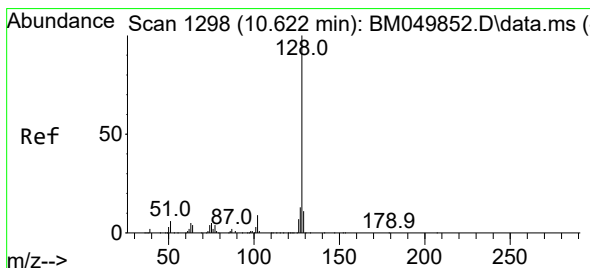
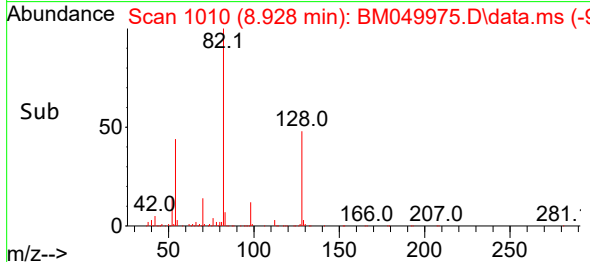
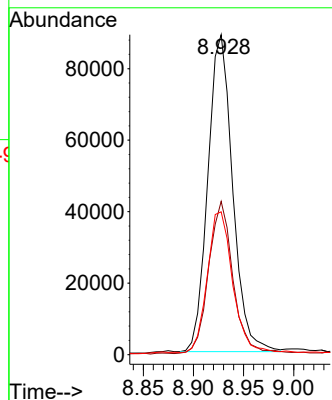
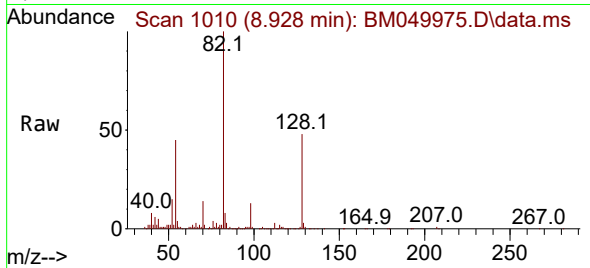




#23
Nitrobenzene-d5
Concen: 3.931 ng
RT: 8.928 min Scan# 1010
Delta R.T. -0.006 min
Lab File: BM049975.D
Acq: 18 Apr 2025 21:02

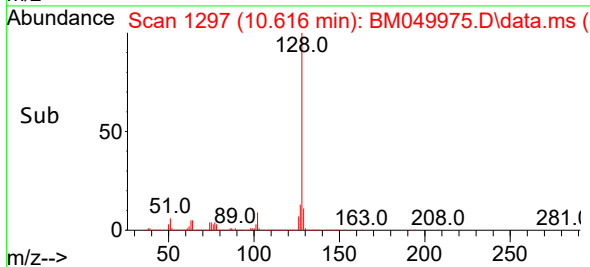
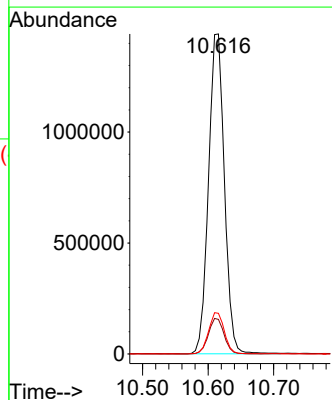
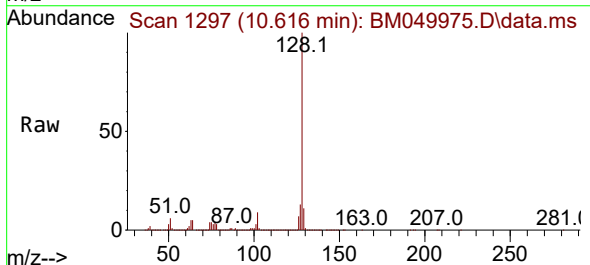
Instrument :
BNA_M
ClientSampleId :
TP-11

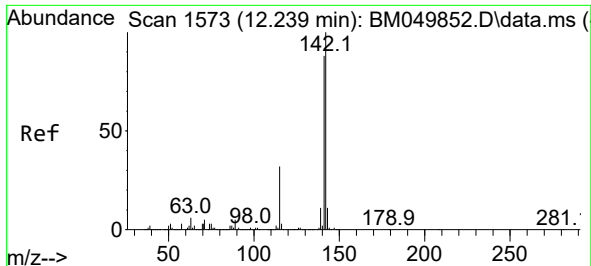
Tgt Ion: 82 Resp: 152828
Ion Ratio Lower Upper
82 100
128 47.9 36.2 54.2
54 44.7 35.0 52.6



#31
Naphthalene
Concen: 21.828 ng
RT: 10.616 min Scan# 1297
Delta R.T. -0.006 min
Lab File: BM049975.D
Acq: 18 Apr 2025 21:02

Tgt Ion: 128 Resp: 2428435
Ion Ratio Lower Upper
128 100
129 10.8 8.8 13.2
127 12.7 10.6 15.8

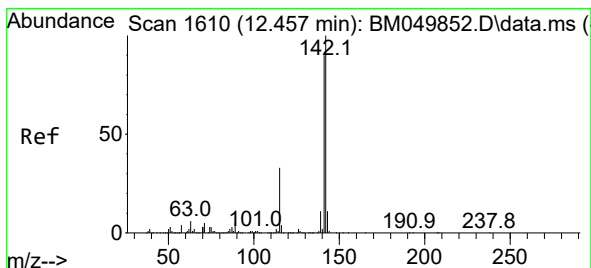
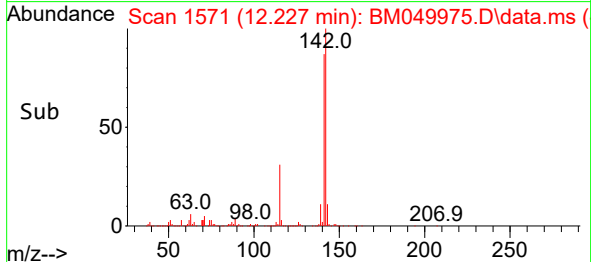
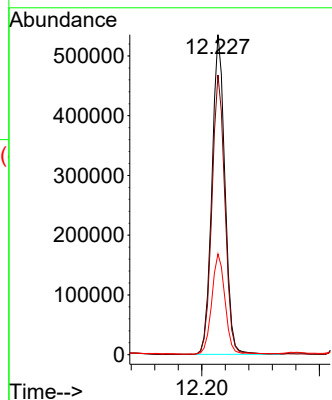
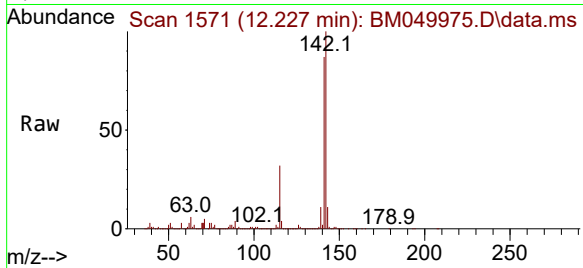




#37
2-Methylnaphthalene
Concen: 10.488 ng
RT: 12.227 min Scan# 1
Delta R.T. -0.012 min
Lab File: BM049975.D
Acq: 18 Apr 2025 21:02

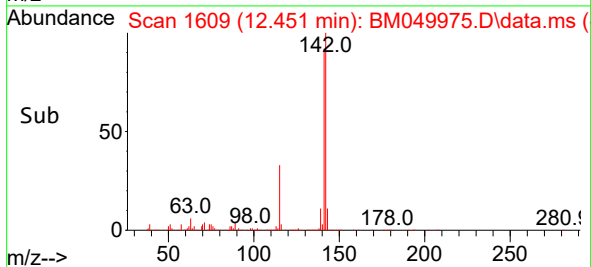
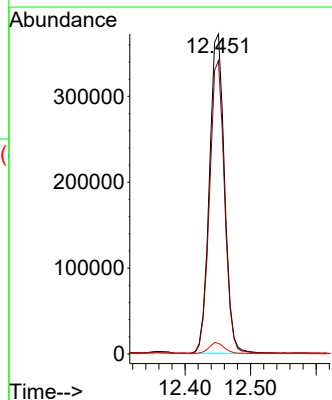
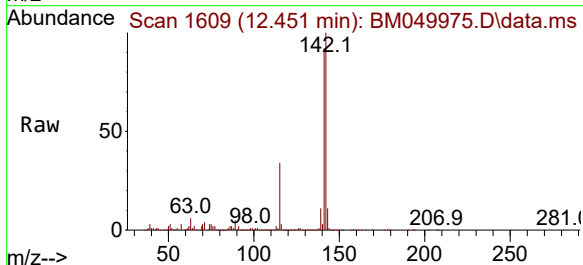
Instrument :
BNA_M
ClientSampleId :
TP-11

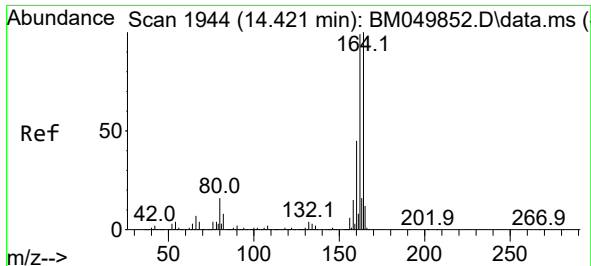
Tgt Ion:142 Resp: 822088
Ion Ratio Lower Upper
142 100
141 87.4 70.2 105.2
115 31.5 25.4 38.2



#38
1-Methylnaphthalene
Concen: 7.813 ng
RT: 12.451 min Scan# 1609
Delta R.T. -0.006 min
Lab File: BM049975.D
Acq: 18 Apr 2025 21:02

Tgt Ion:142 Resp: 596644
Ion Ratio Lower Upper
142 100
141 91.7 72.2 108.2
116 3.4 2.9 4.3

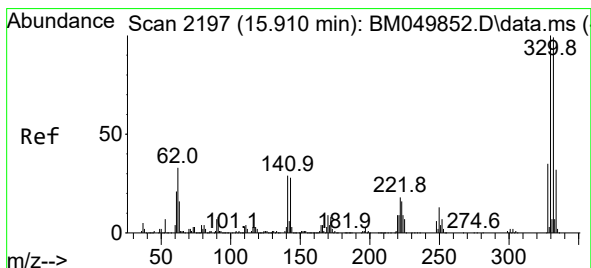
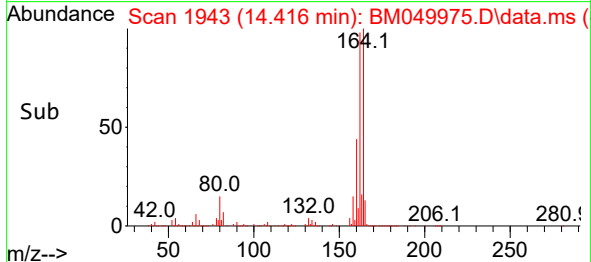
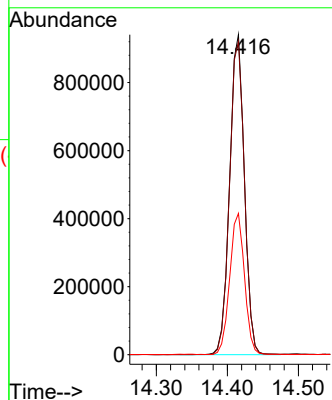
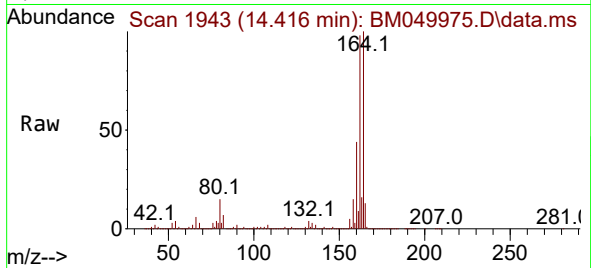




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.416 min Scan# 1943
Delta R.T. -0.006 min
Lab File: BM049975.D
Acq: 18 Apr 2025 21:02

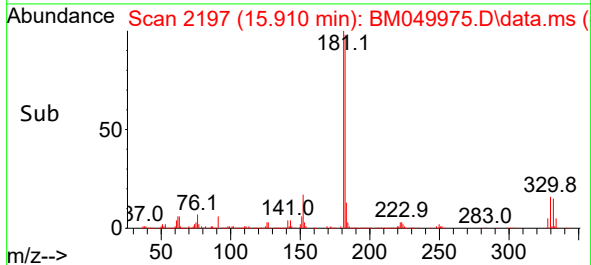
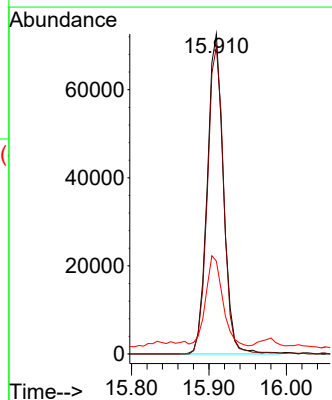
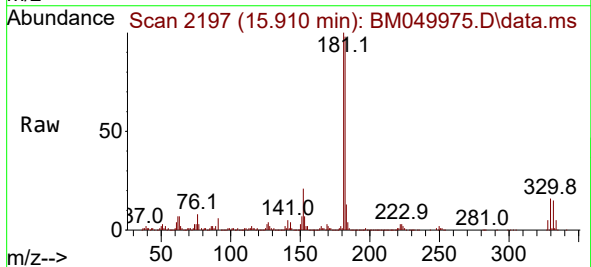
Instrument :
BNA_M
ClientSampleId :
TP-11

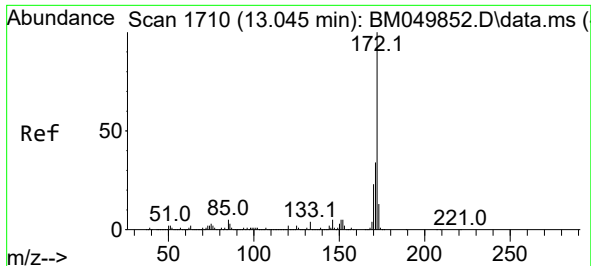
Tgt Ion:164 Resp: 1357281
Ion Ratio Lower Upper
164 100
162 97.9 79.4 119.0
160 44.1 36.2 54.2



#42
2,4,6-Tribromophenol
Concen: 5.335 ng
RT: 15.910 min Scan# 2197
Delta R.T. 0.000 min
Lab File: BM049975.D
Acq: 18 Apr 2025 21:02

Tgt Ion:330 Resp: 105325
Ion Ratio Lower Upper
330 100
332 96.2 78.0 117.0
141 30.2 23.5 35.3

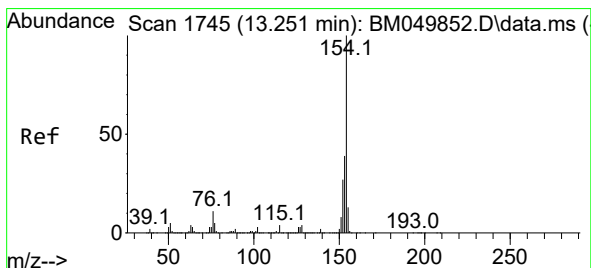
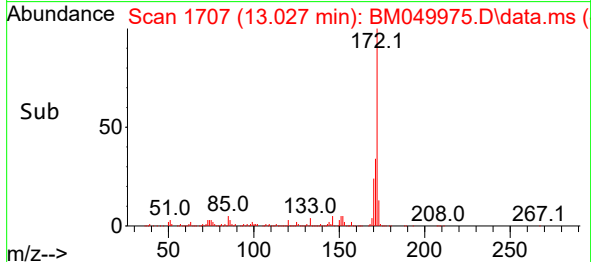
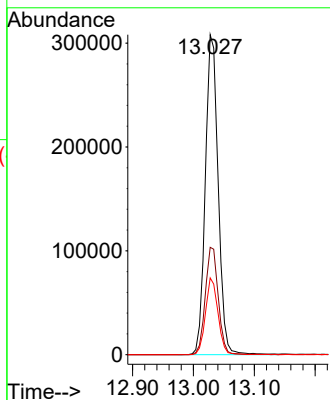
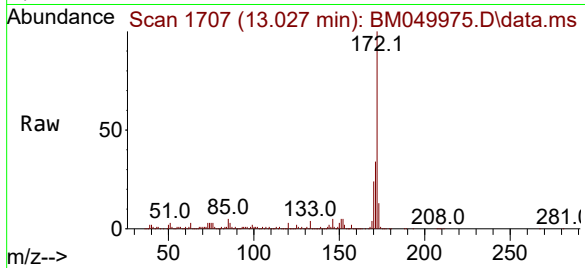




#45
2-Fluorobiphenyl
Concen: 4.518 ng
RT: 13.027 min Scan# 1710
Delta R.T. -0.018 min
Lab File: BM049975.D
Acq: 18 Apr 2025 21:02

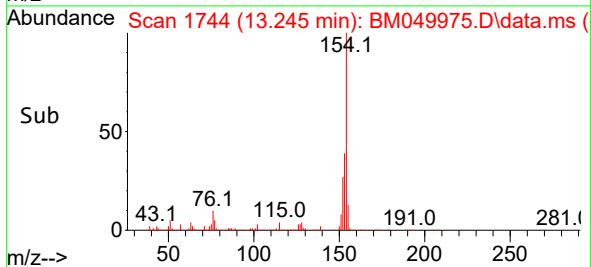
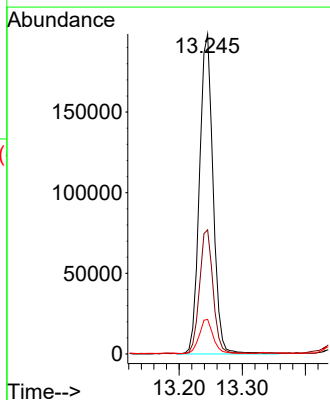
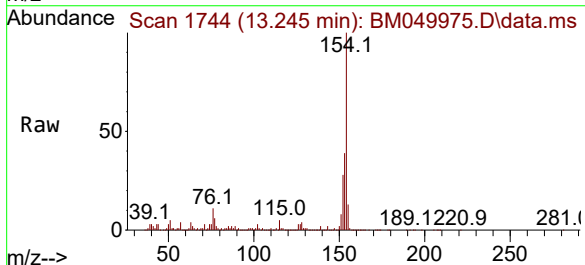
Instrument :
BNA_M
ClientSampleId :
TP-11

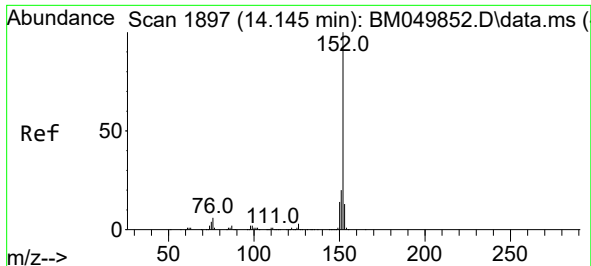
Tgt Ion:172 Resp: 452244
Ion Ratio Lower Upper
172 100
171 33.6 27.4 41.2
170 24.0 18.6 28.0



#46
1,1'-Biphenyl
Concen: 2.944 ng
RT: 13.245 min Scan# 1744
Delta R.T. -0.006 min
Lab File: BM049975.D
Acq: 18 Apr 2025 21:02

Tgt Ion:154 Resp: 297017
Ion Ratio Lower Upper
154 100
153 38.8 19.3 59.3
76 10.8 0.0 30.7

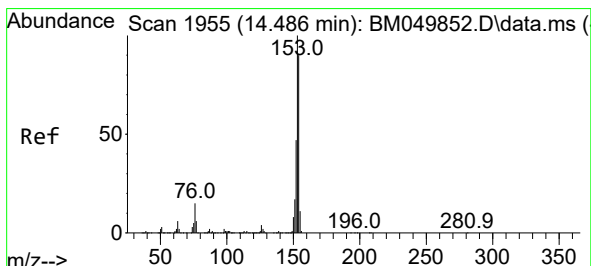
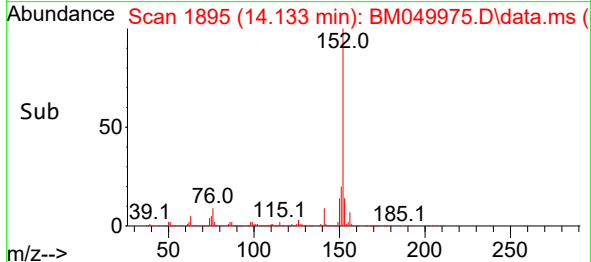
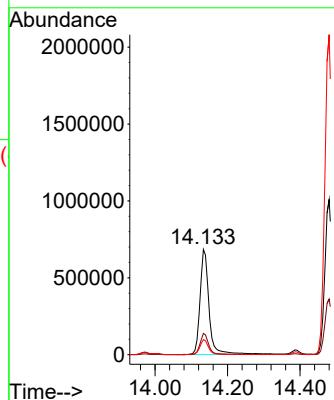
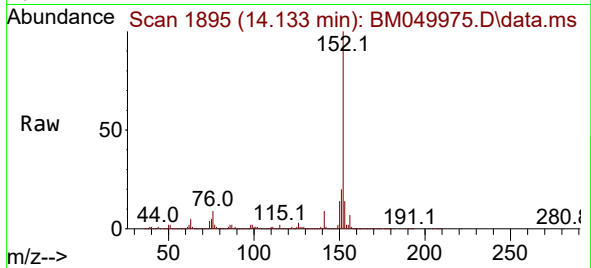




#49
Acenaphthylene
Concen: 10.320 ng
RT: 14.133 min Scan# 1895
Delta R.T. -0.012 min
Lab File: BM049975.D
Acq: 18 Apr 2025 21:02

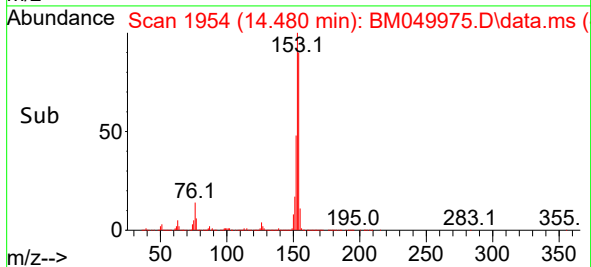
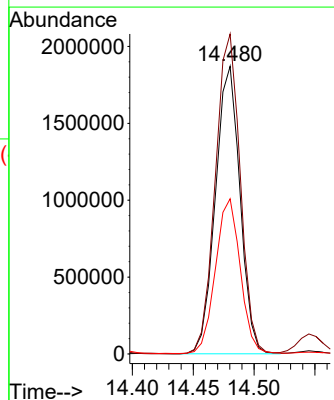
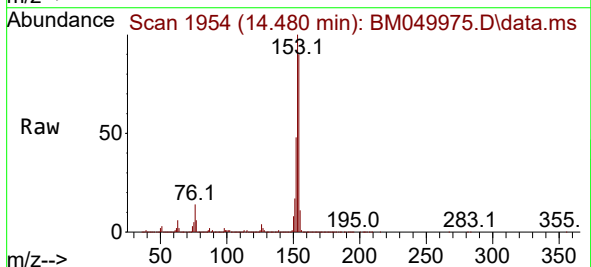
Instrument :
BNA_M
ClientSampleId :
TP-11

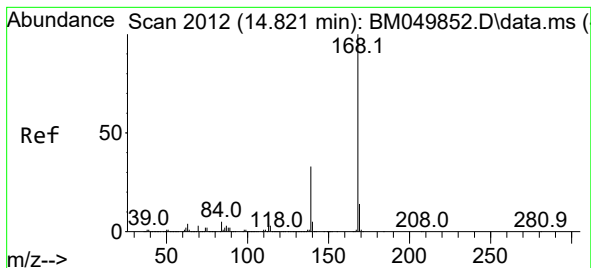
Tgt Ion:152 Resp: 1192136
Ion Ratio Lower Upper
152 100
151 20.2 15.7 23.5
153 14.3 10.4 15.6



#52
Acenaphthene
Concen: 35.765 ng
RT: 14.480 min Scan# 1954
Delta R.T. -0.006 min
Lab File: BM049975.D
Acq: 18 Apr 2025 21:02

Tgt Ion:154 Resp: 2627927
Ion Ratio Lower Upper
154 100
153 111.2 89.3 133.9
152 53.9 42.2 63.2





#55

Dibenzenofuran

Concen: 20.683 ng

RT: 14.816 min Scan# 20

Delta R.T. -0.006 min

Lab File: BM049975.D

Acq: 18 Apr 2025 21:02

Instrument :

BNA_M

ClientSampleId :

TP-11

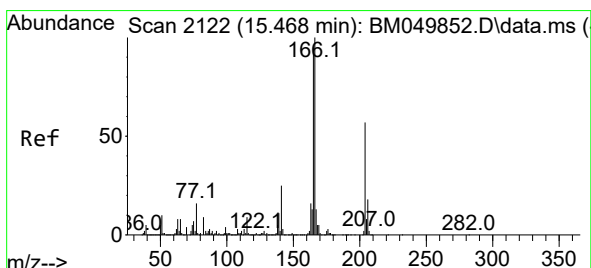
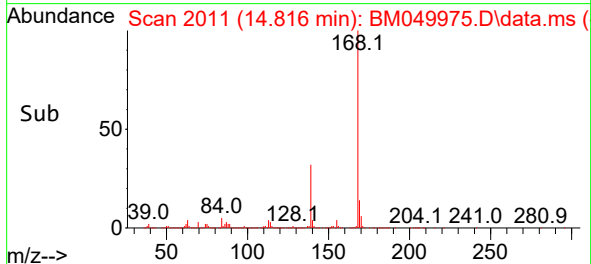
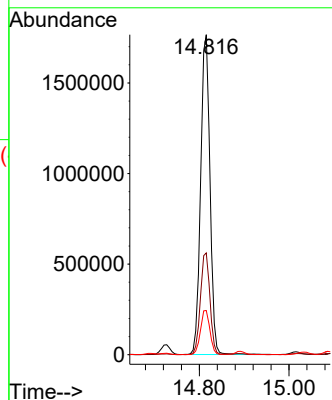
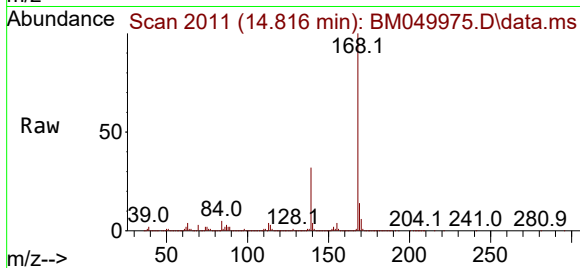
Tgt Ion:168 Resp: 2540625

Ion Ratio Lower Upper

168 100

139 31.8 26.6 39.8

169 13.8 11.0 16.4



#58

Fluorene

Concen: 35.829 ng

RT: 15.463 min Scan# 2121

Delta R.T. -0.006 min

Lab File: BM049975.D

Acq: 18 Apr 2025 21:02

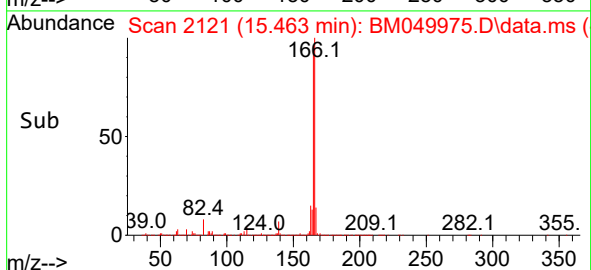
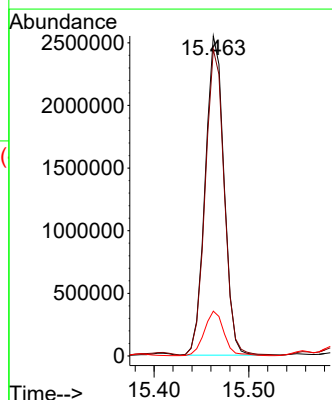
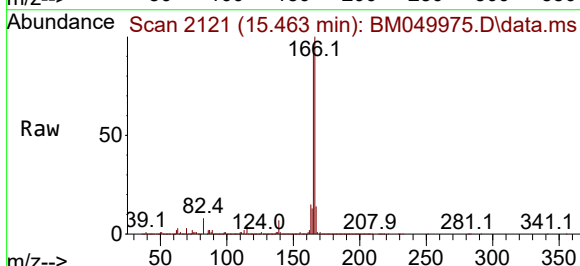
Tgt Ion:166 Resp: 3498292

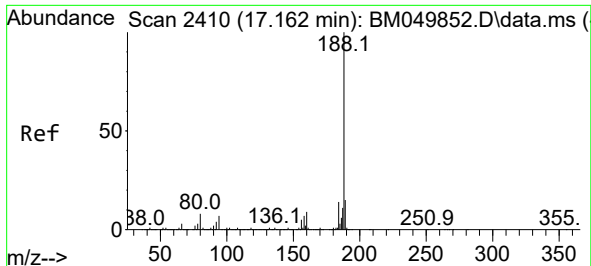
Ion Ratio Lower Upper

166 100

165 95.8 76.3 114.5

167 14.0 10.7 16.1

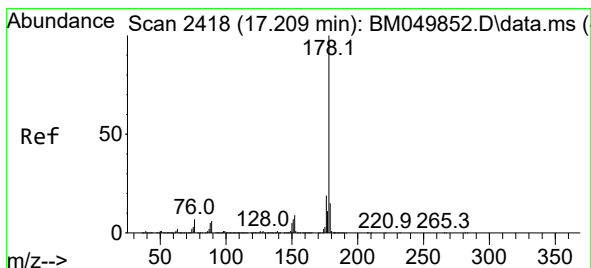
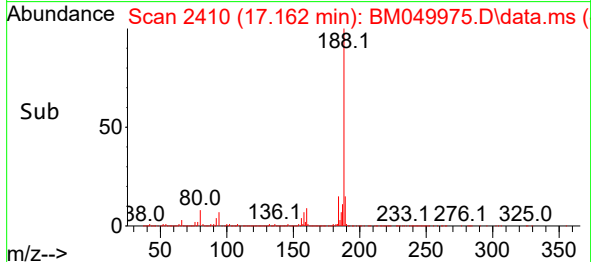
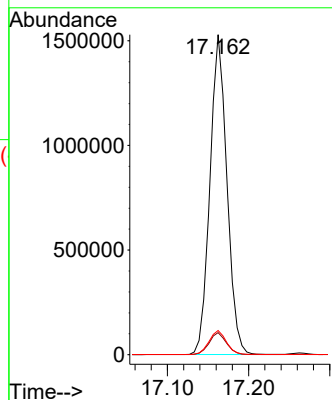
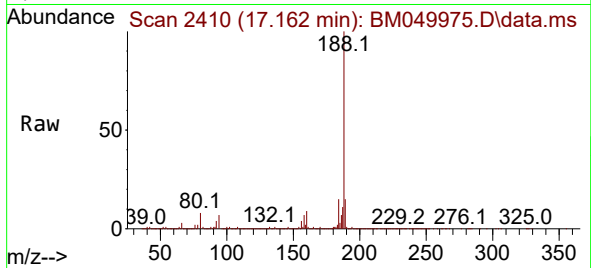




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.162 min Scan# 2410
Delta R.T. -0.000 min
Lab File: BM049975.D
Acq: 18 Apr 2025 21:02

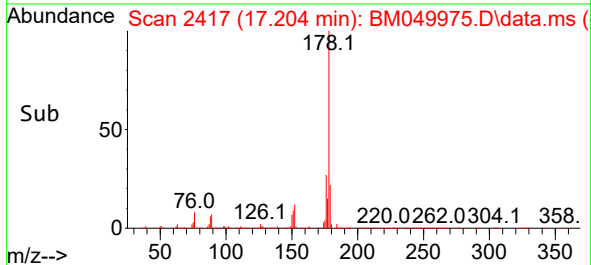
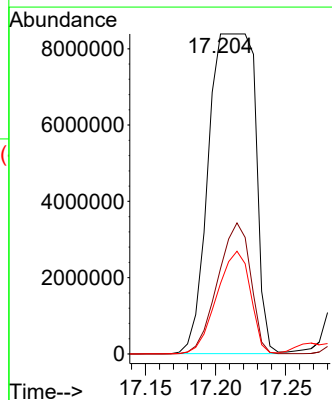
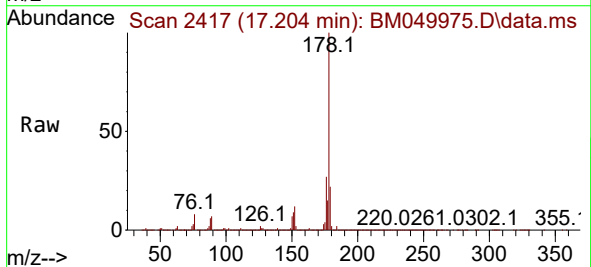
Instrument :
BNA_M
ClientSampleId :
TP-11

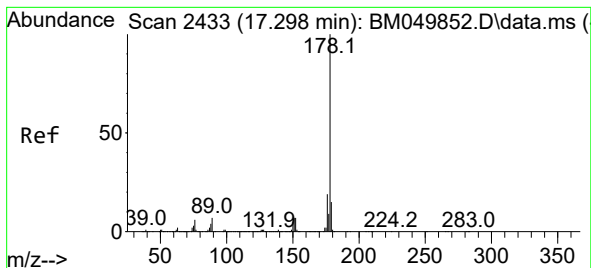
Tgt Ion:188 Resp: 2220739
Ion Ratio Lower Upper
188 100
94 6.9 5.8 8.6
80 7.6 6.4 9.6



#71
Phenanthrene
Concen: 158.034 ng m
RT: 17.204 min Scan# 2417
Delta R.T. -0.006 min
Lab File: BM049975.D
Acq: 18 Apr 2025 21:02

Tgt Ion:178 Resp:19240604
Ion Ratio Lower Upper
178 100
176 26.7 15.4 23.2#
179 22.0 12.3 18.5#





#72

Anthracene

Concen: 79.296 ng

RT: 17.298 min Scan# 2433

Delta R.T. 0.000 min

Lab File: BM049975.D

Acq: 18 Apr 2025 21:02

Instrument :

BNA_M

ClientSampleId :

TP-11

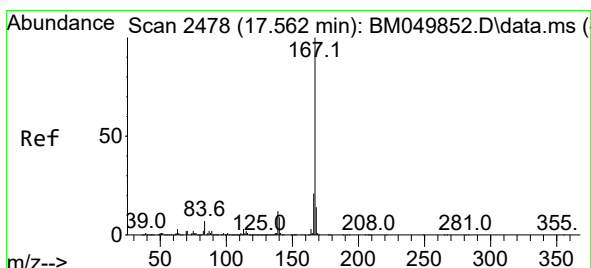
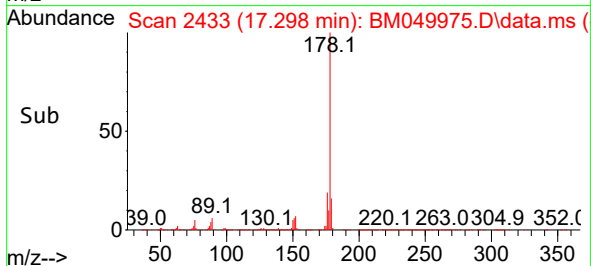
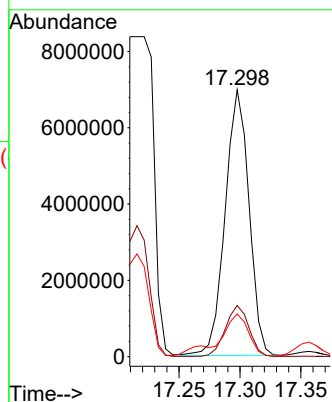
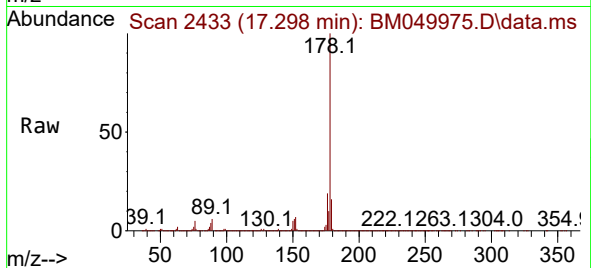
Tgt Ion:178 Resp: 9514073

Ion Ratio Lower Upper

178 100

176 19.2 15.1 22.7

179 16.0 12.4 18.6



#73

Carbazole

Concen: 26.806 ng

RT: 17.568 min Scan# 2479

Delta R.T. 0.006 min

Lab File: BM049975.D

Acq: 18 Apr 2025 21:02

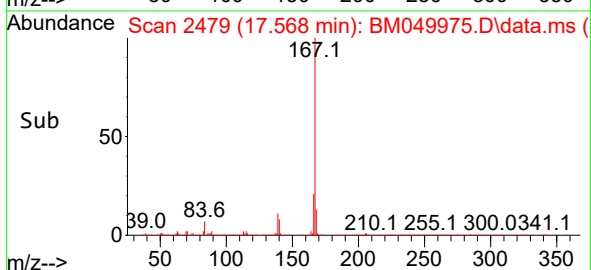
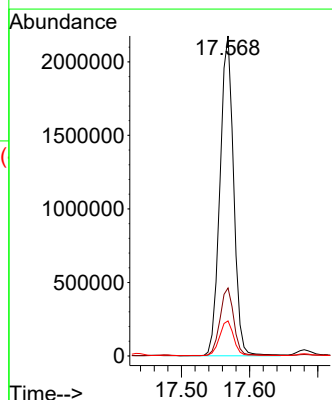
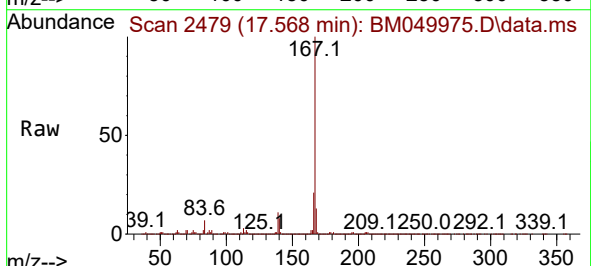
Tgt Ion:167 Resp: 3029271

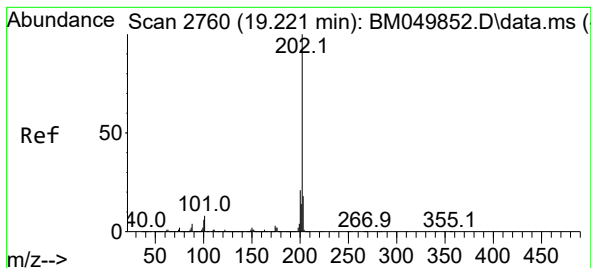
Ion Ratio Lower Upper

167 100

166 21.3 16.9 25.3

139 11.0 9.3 13.9





#75

Fluoranthene

Concen: 137.904 ng m

RT: 19.221 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM049975.D

Acq: 18 Apr 2025 21:02

Instrument :

BNA_M

ClientSampleId :

TP-11

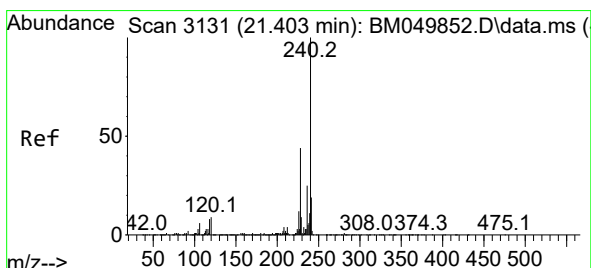
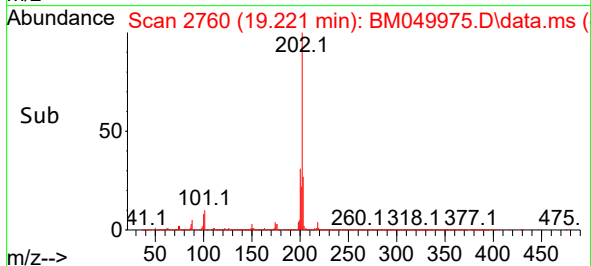
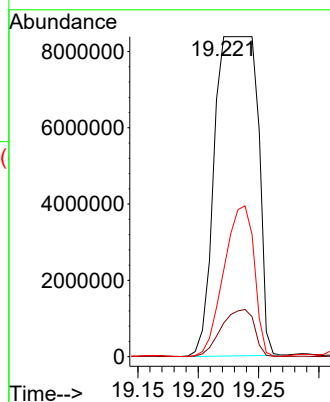
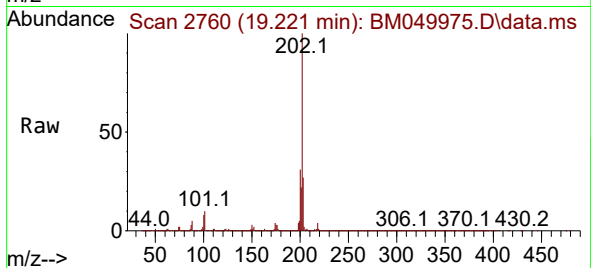
Tgt Ion:202 Resp:20643780

Ion Ratio Lower Upper

202 100

101 10.5 0.0 28.4

203 27.0 0.0 37.8



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.409 min Scan# 3132

Delta R.T. 0.006 min

Lab File: BM049975.D

Acq: 18 Apr 2025 21:02

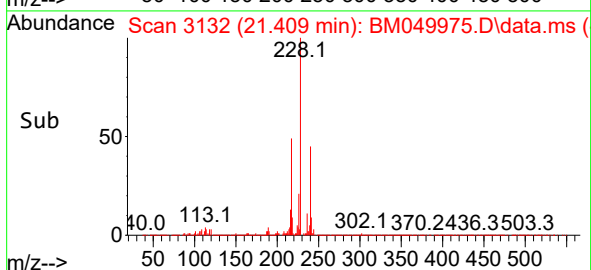
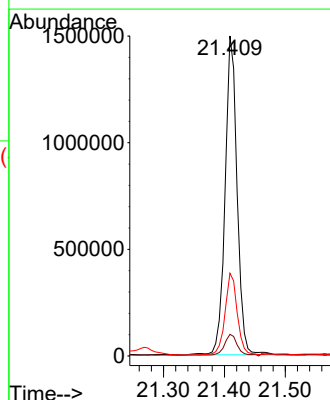
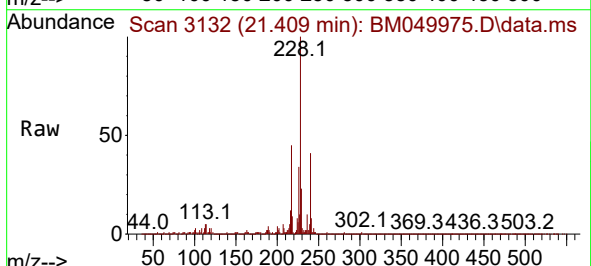
Tgt Ion:240 Resp: 2047378

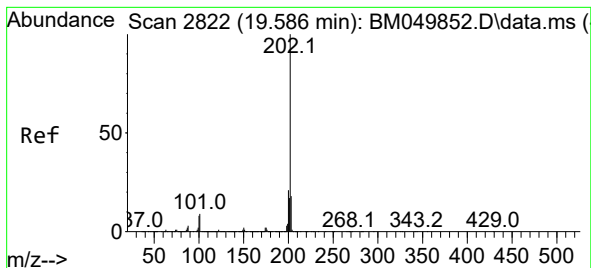
Ion Ratio Lower Upper

240 100

120 6.7 6.9 10.3#

236 25.8 20.4 30.6





#78

Pyrene

Concen: 151.373 ng m

RT: 19.586 min Scan# 2

Delta R.T. 0.000 min

Lab File: BM049975.D

Acq: 18 Apr 2025 21:02

Instrument :

BNA_M

ClientSampleId :

TP-11

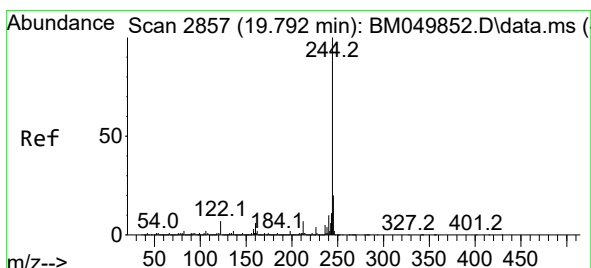
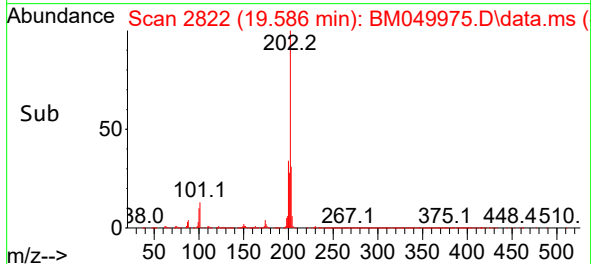
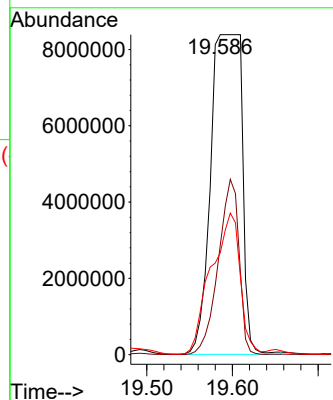
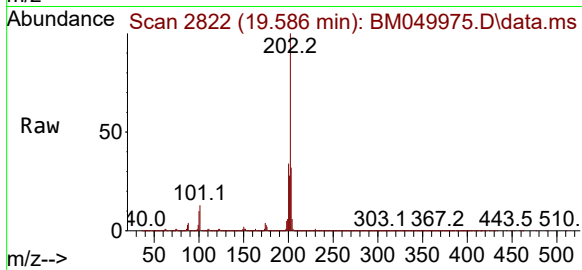
Tgt Ion:202 Resp:21358919

Ion Ratio Lower Upper

202 100

200 34.1 16.5 24.7#

203 31.8 14.0 21.0#



#79

Terphenyl-d14

Concen: 4.217 ng

RT: 19.786 min Scan# 2856

Delta R.T. -0.006 min

Lab File: BM049975.D

Acq: 18 Apr 2025 21:02

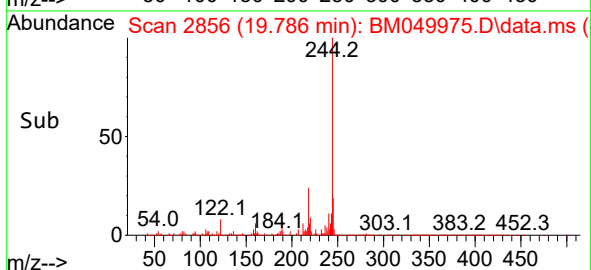
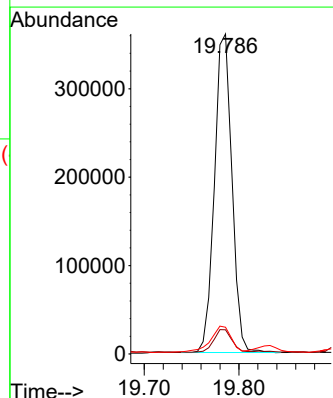
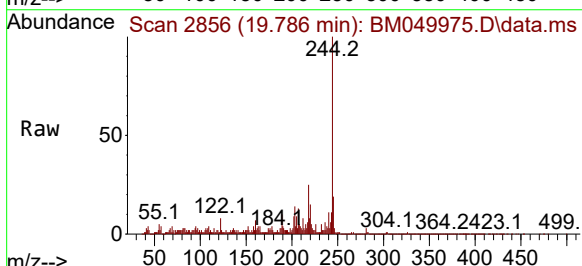
Tgt Ion:244 Resp: 460704

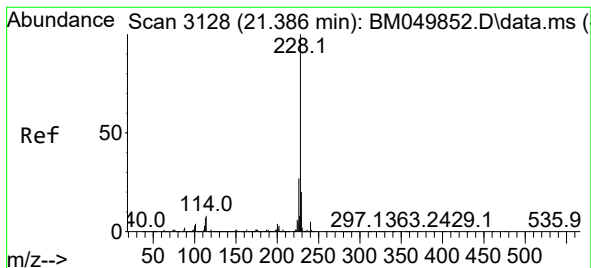
Ion Ratio Lower Upper

244 100

212 7.5 5.5 8.3

122 8.4 5.4 8.0#





#81

Benzo(a)anthracene

Concen: 129.482 ng

RT: 21.386 min Scan# 3128

Delta R.T. 0.000 min

Lab File: BM049975.D

Acq: 18 Apr 2025 21:02

Instrument :

BNA_M

ClientSampleId :

TP-11

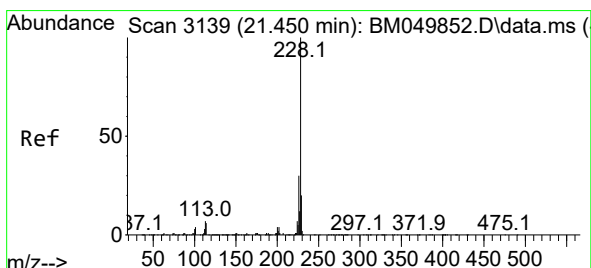
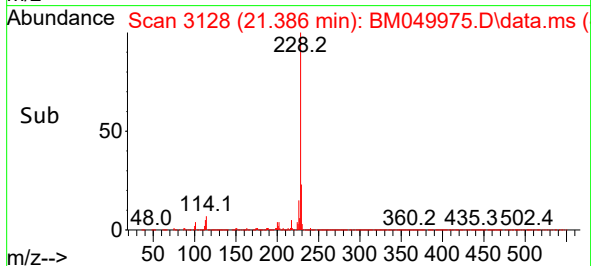
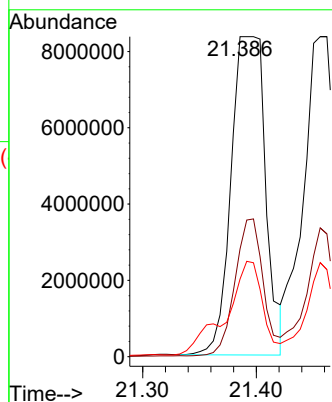
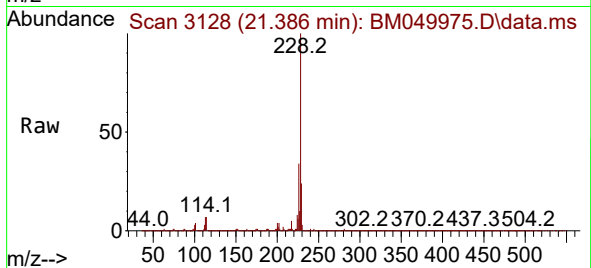
Tgt Ion:228 Resp:17618349

Ion Ratio Lower Upper

228 100

226 33.6 21.8 32.8#

229 24.3 15.8 23.8#



#83

Chrysene

Concen: 122.696 ng

RT: 21.456 min Scan# 3140

Delta R.T. 0.006 min

Lab File: BM049975.D

Acq: 18 Apr 2025 21:02

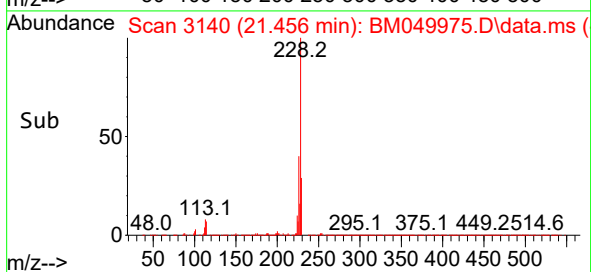
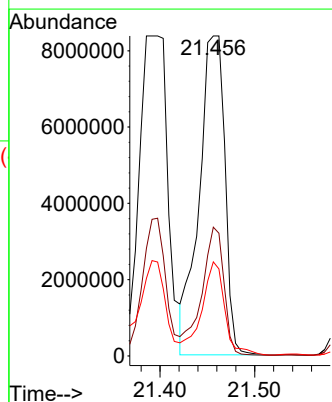
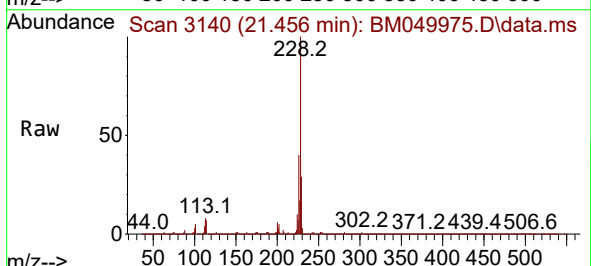
Tgt Ion:228 Resp:15872090

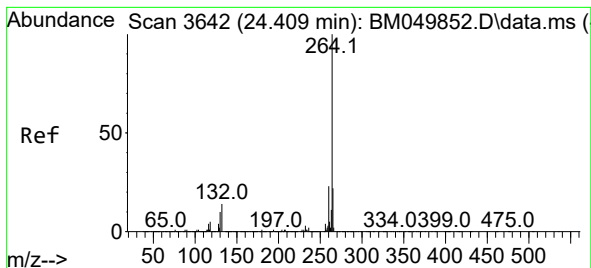
Ion Ratio Lower Upper

228 100

226 40.2 24.1 36.1#

229 29.4 15.8 23.6#





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.421 min Scan# 3

Delta R.T. 0.012 min

Lab File: BM049975.D

Acq: 18 Apr 2025 21:02

Instrument :

BNA_M

ClientSampleId :

TP-11

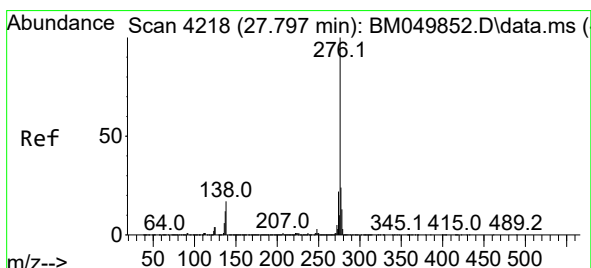
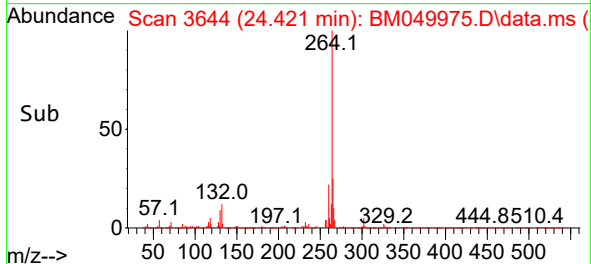
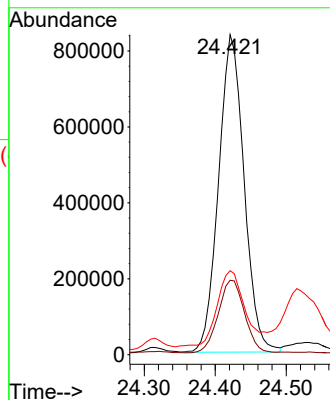
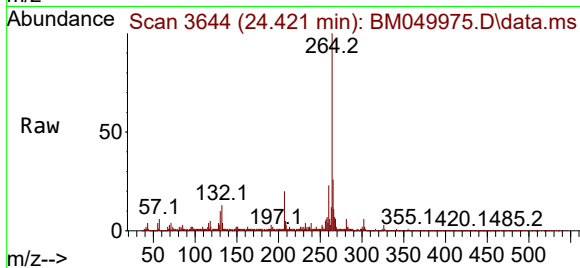
Tgt Ion:264 Resp: 2083284

Ion Ratio Lower Upper

264 100

260 23.3 18.6 28.0

265 26.3 17.8 26.8



#87

Indeno(1,2,3-cd)pyrene

Concen: 69.898 ng

RT: 27.850 min Scan# 4227

Delta R.T. 0.053 min

Lab File: BM049975.D

Acq: 18 Apr 2025 21:02

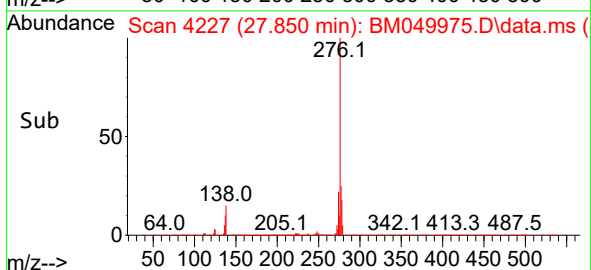
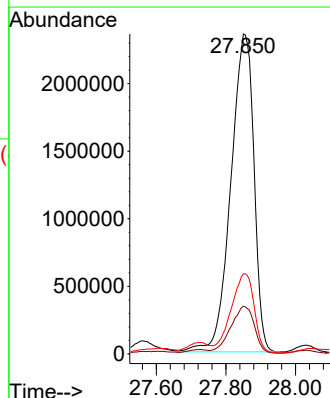
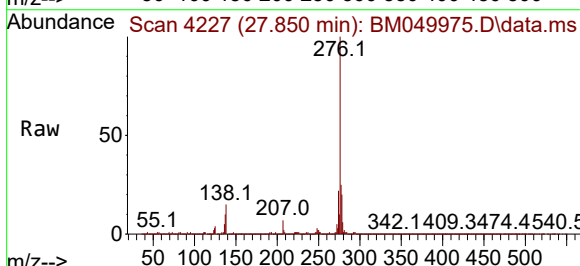
Tgt Ion:276 Resp:10854521

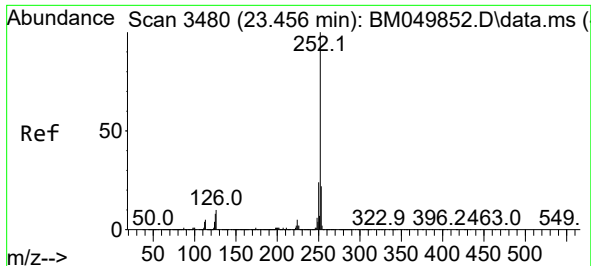
Ion Ratio Lower Upper

276 100

138 15.1 16.8 25.2#

277 24.9 20.1 30.1

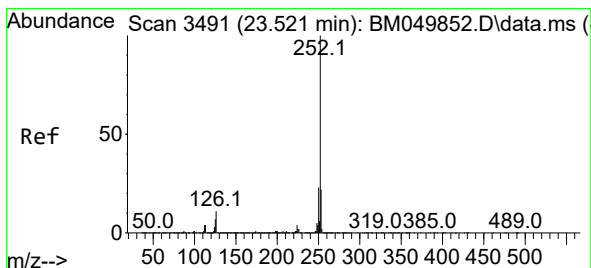
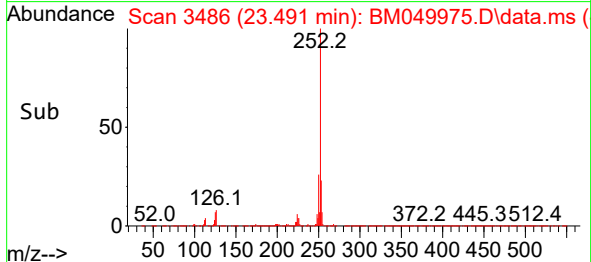
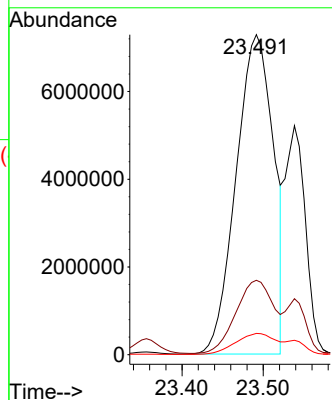
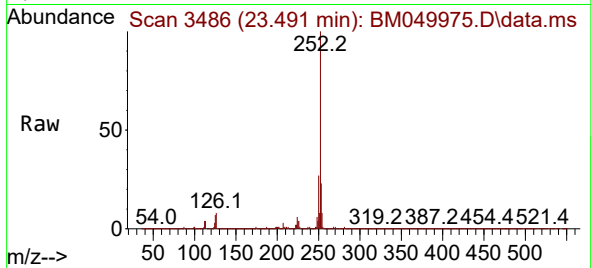




#88
Benzo(b)fluoranthene
Concen: 174.585 ng
RT: 23.491 min Scan# 3486
Delta R.T. 0.035 min
Lab File: BM049975.D
Acq: 18 Apr 2025 21:02

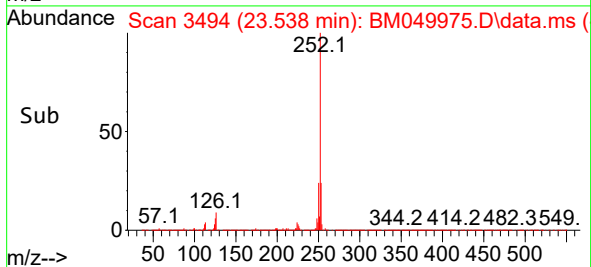
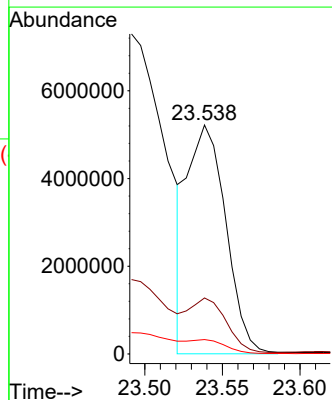
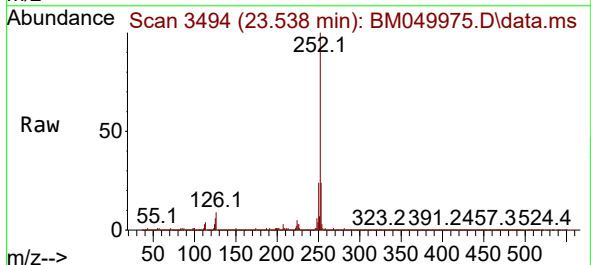
Instrument :
BNA_M
ClientSampleId :
TP-11

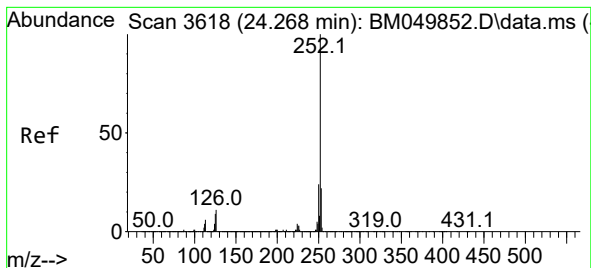
Tgt Ion:252 Resp:23228763
Ion Ratio Lower Upper
252 100
253 23.3 17.5 26.3
125 6.7 6.2 9.4



#89
Benzo(k)fluoranthene
Concen: 69.687 ng m
RT: 23.538 min Scan# 3494
Delta R.T. 0.018 min
Lab File: BM049975.D
Acq: 18 Apr 2025 21:02

Tgt Ion:252 Resp: 8985214
Ion Ratio Lower Upper
252 100
253 24.5 17.4 26.2
125 6.3 5.8 8.8





#90

Benzo(a)pyrene

Concen: 155.732 ng m

RT: 24.303 min Scan# 3

Delta R.T. 0.035 min

Lab File: BM049975.D

Acq: 18 Apr 2025 21:02

Instrument :

BNA_M

ClientSampleId :

TP-11

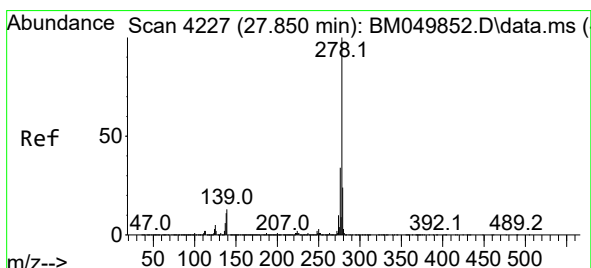
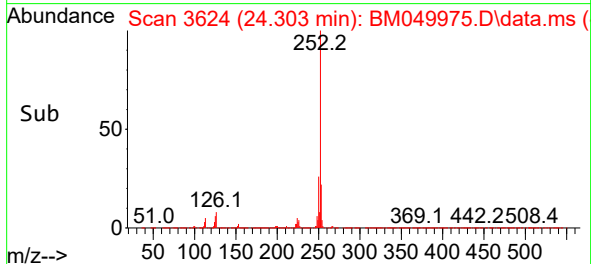
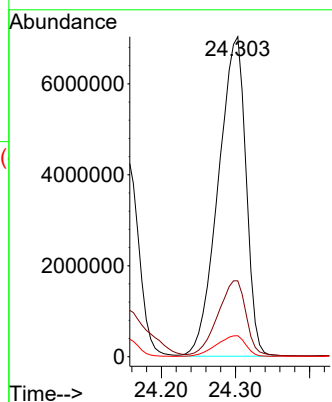
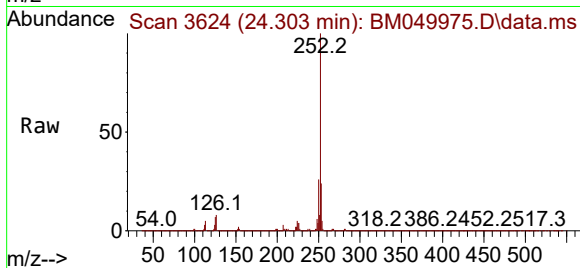
Tgt Ion:252 Resp:18207628

Ion Ratio Lower Upper

252 100

253 23.7 17.8 26.8

125 6.5 7.0 10.4#



#91

Dibenzo(a,h)anthracene

Concen: 21.860 ng

RT: 27.879 min Scan# 4232

Delta R.T. 0.029 min

Lab File: BM049975.D

Acq: 18 Apr 2025 21:02

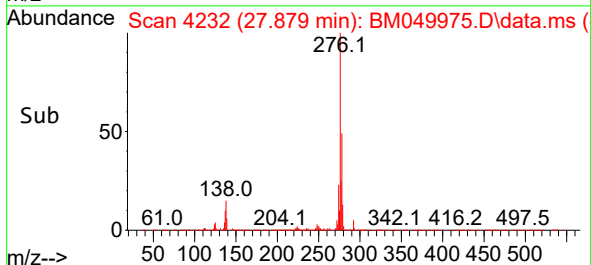
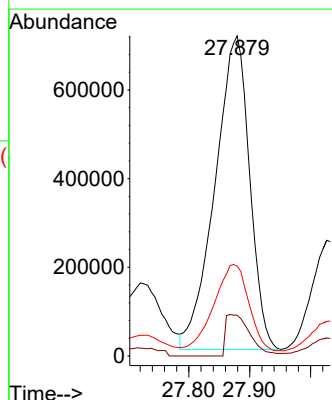
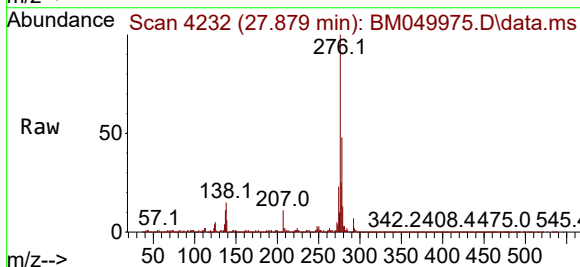
Tgt Ion:278 Resp: 2796088

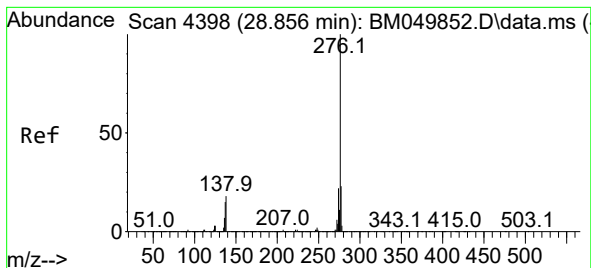
Ion Ratio Lower Upper

278 100

139 12.7 10.6 15.8

279 28.1 19.1 28.7





#92

Benzo(g,h,i)perylene

Concen: 70.983 ng

RT: 28.920 min Scan# 44

Delta R.T. 0.065 min

Lab File: BM049975.D

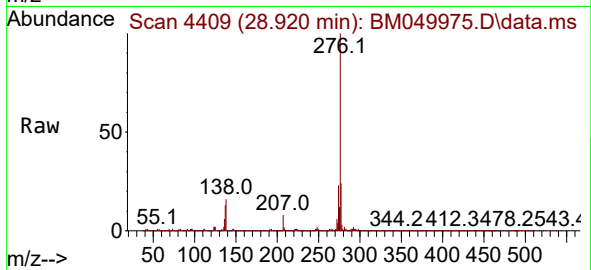
Acq: 18 Apr 2025 21:02

Instrument :

BNA_M

ClientSampleId :

TP-11



Tgt Ion:276 Resp: 9278033

Ion Ratio Lower Upper

276 100

277 24.1 18.7 28.1

138 15.6 14.6 21.8

