

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041625\
 Data File : BM049954.D
 Acq On : 16 Apr 2025 16:05
 Operator : RC/JU
 Sample : Q1806-01DL 4X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 OR-03-041425DL

Quant Time: Apr 16 16:45:50 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)

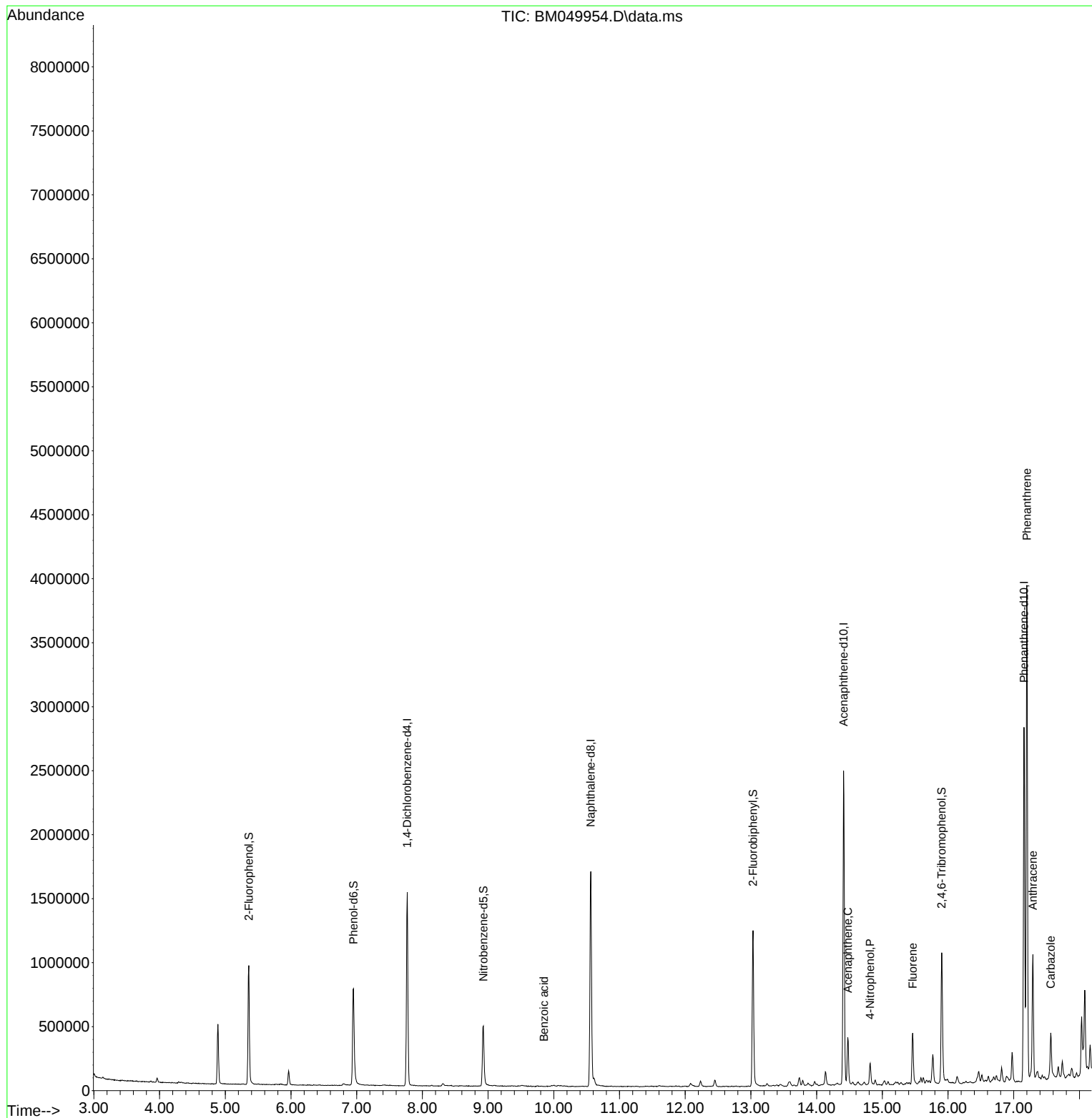
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.769	152	435300	20.000	ng	-0.01
21) Naphthalene-d8	10.563	136	1469118	20.000	ng	-0.01
39) Acenaphthene-d10	14.410	164	897287	20.000	ng	-0.01
64) Phenanthrene-d10	17.156	188	1665896	20.000	ng	0.00
76) Chrysene-d12	21.397	240	1666327	20.000	ng	0.00
86) Perylene-d12	24.403	264	1846834	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	430145	16.780	ng	0.00
7) Phenol-d6	6.951	99	531761	16.672	ng	0.00
23) Nitrobenzene-d5	8.928	82	300433	11.388	ng	0.00
42) 2,4,6-Tribromophenol	15.904	330	208473	15.973	ng	0.00
45) 2-Fluorobiphenyl	13.033	172	717686	10.846	ng	-0.01
79) Terphenyl-d14	19.780	244	831234	9.349	ng	-0.01
Target Compounds						Qvalue
32) Benzoic acid	9.851	122	62	8.541	ng	# 1
52) Acenaphthene	14.474	154	132517	2.728	ng	98
56) 4-Nitrophenol	14.815	139	37596	3.291	ng	# 14
58) Fluorene	15.462	166	197696	3.063	ng	98
71) Phenanthrene	17.198	178	2427573	26.580	ng	100
72) Anthracene	17.292	178	640940	7.121	ng	99
73) Carbazole	17.562	167	240113	2.832	ng	99
75) Fluoranthene	19.215	202	4076708	36.303	ng	100
78) Pyrene	19.580	202	3436753	29.926	ng	99
81) Benzo(a)anthracene	21.380	228	1441132	13.013	ng	99
83) Chrysene	21.439	228	1284139	12.197	ng	98
87) Indeno(1,2,3-cd)pyrene	27.785	276	790733	5.744	ng	97
88) Benzo(b)fluoranthene	23.450	252	1537648	13.036	ng	99
89) Benzo(k)fluoranthene	23.450	252	1537648	13.452	ng	99
90) Benzo(a)pyrene	24.256	252	1190865	11.490	ng	98
92) Benzo(g,h,i)perylene	28.838	276	789996	6.818	ng	100

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

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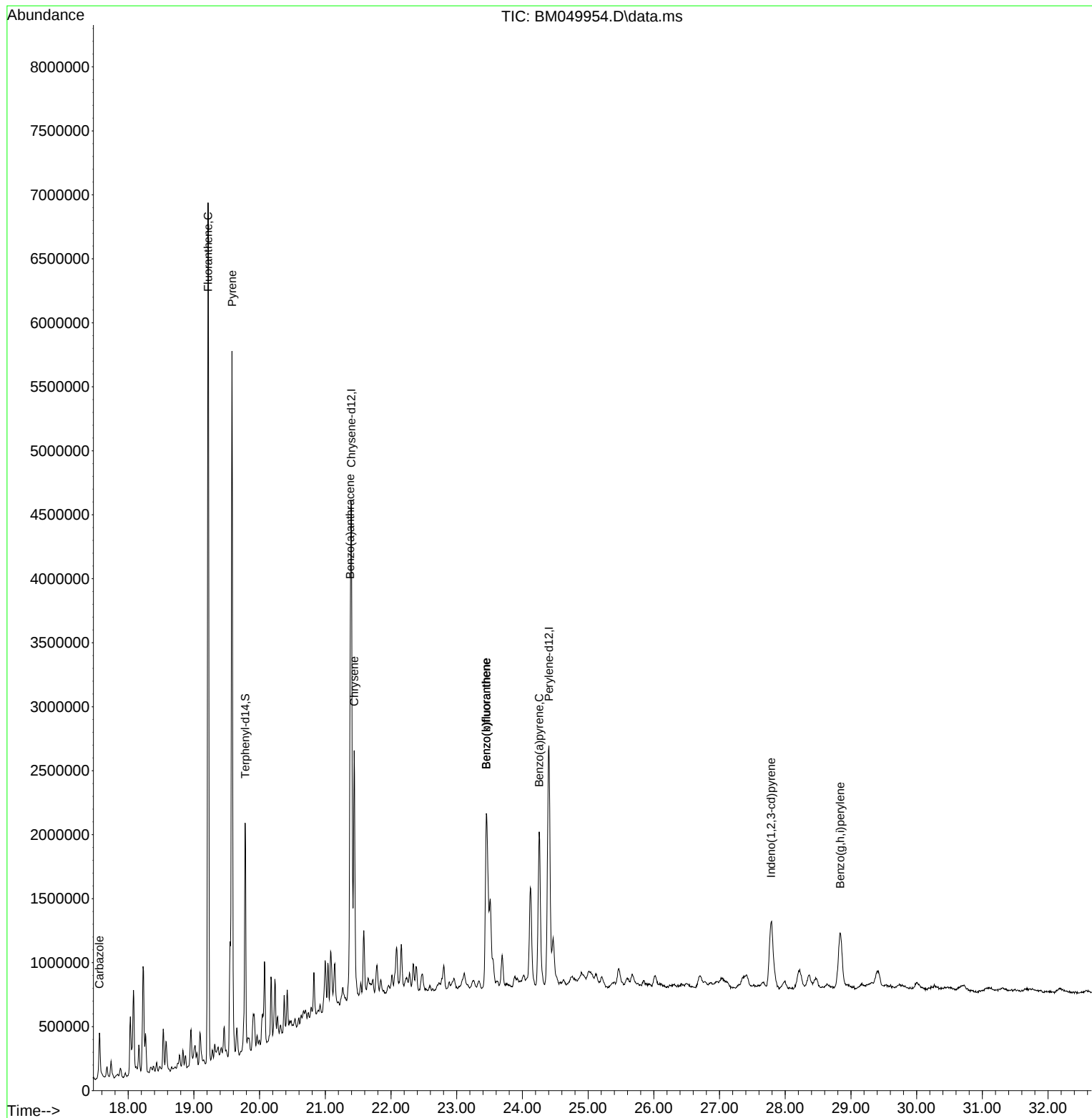
Quant Time: Apr 16 16:45:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
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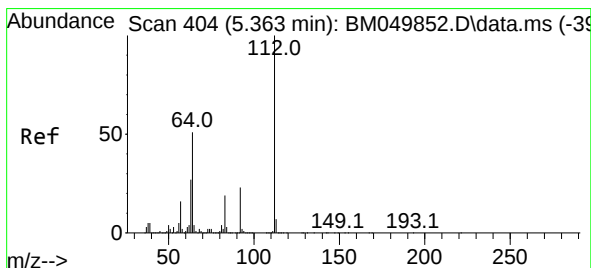
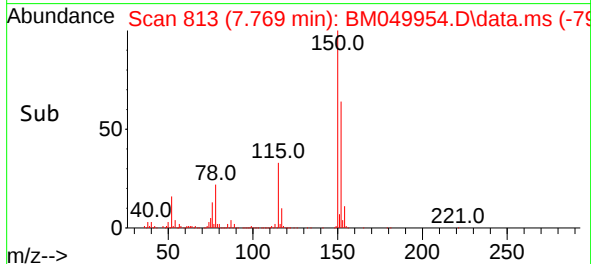
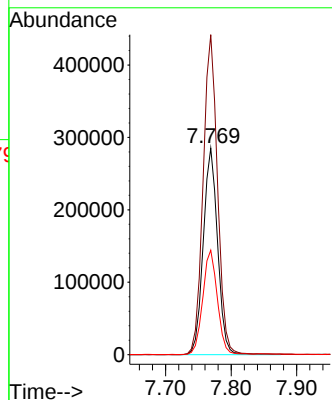
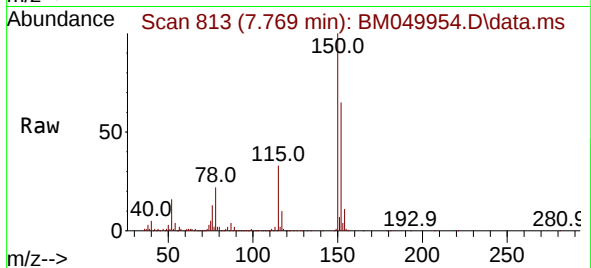




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 815
Delta R.T. -0.012 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

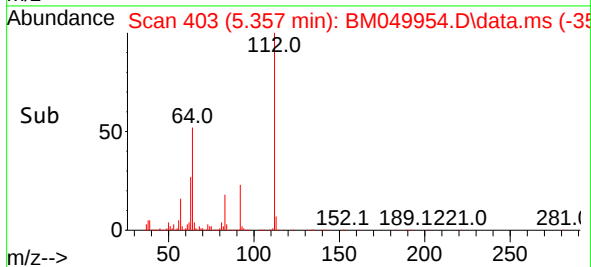
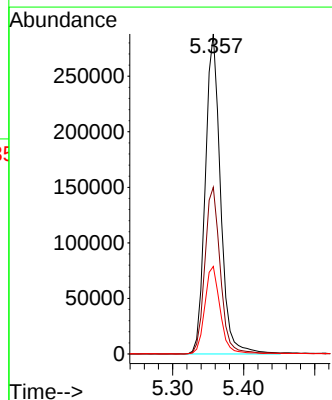
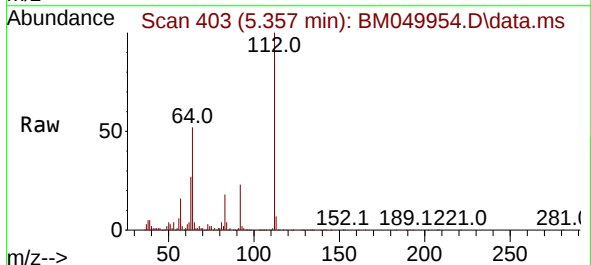
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BNA_M
ClientSampleId :
OR-03-041425DL

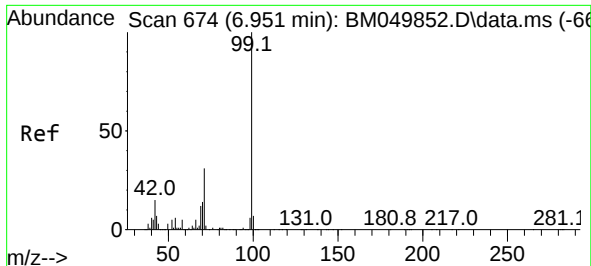
Tgt Ion:152 Resp: 435300
Ion Ratio Lower Upper
152 100
150 154.9 124.3 186.5
115 50.5 41.1 61.7



#5
2-Fluorophenol
Concen: 16.780 ng
RT: 5.357 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

Tgt Ion:112 Resp: 430145
Ion Ratio Lower Upper
112 100
64 52.1 41.0 61.6
63 27.3 21.5 32.3

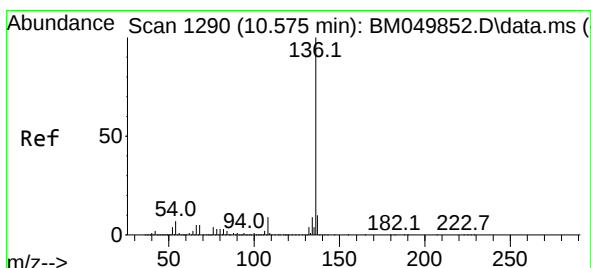
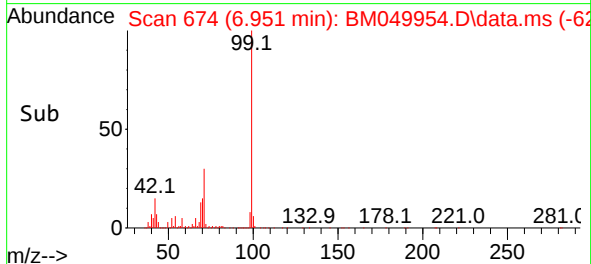
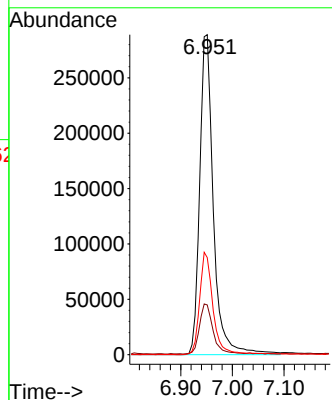
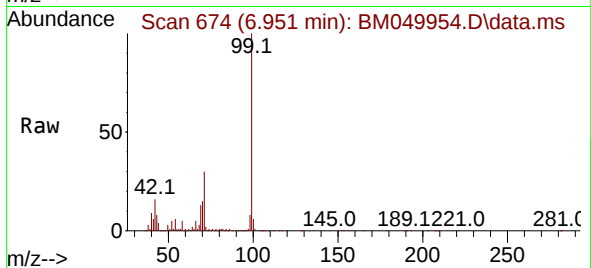




#7
Phenol-d6
Concen: 16.672 ng
RT: 6.951 min Scan# 61
Delta R.T. -0.000 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

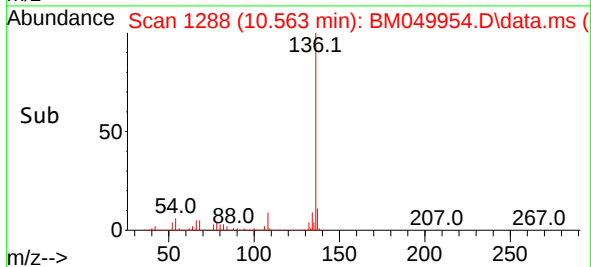
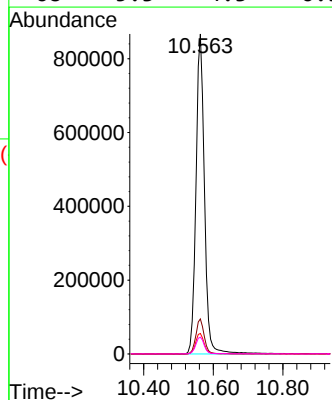
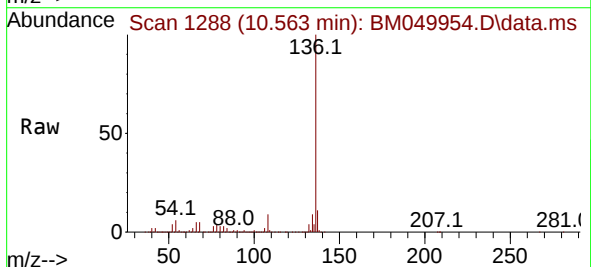
Instrument :
BNA_M
ClientSampleId :
OR-03-041425DL

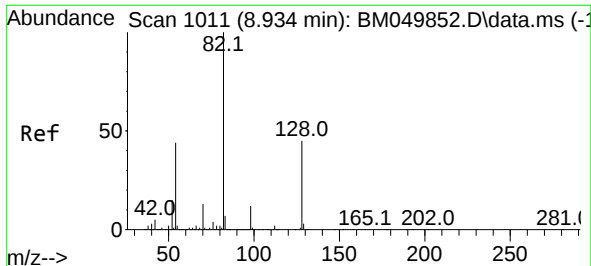
Tgt Ion: 99 Resp: 531761
Ion Ratio Lower Upper
99 100
42 15.5 12.1 18.1
71 30.4 24.9 37.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.563 min Scan# 1288
Delta R.T. -0.012 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

Tgt Ion:136 Resp: 1469118
Ion Ratio Lower Upper
136 100
137 10.9 8.4 12.6
54 6.4 5.3 7.9
68 5.3 4.3 6.5

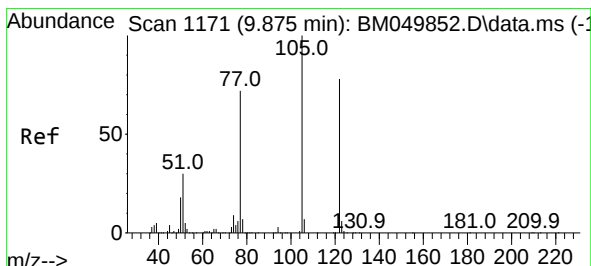
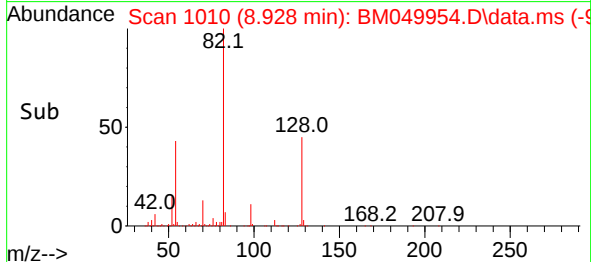
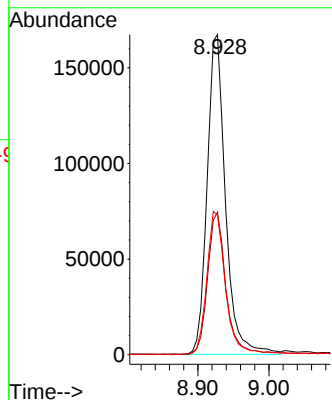
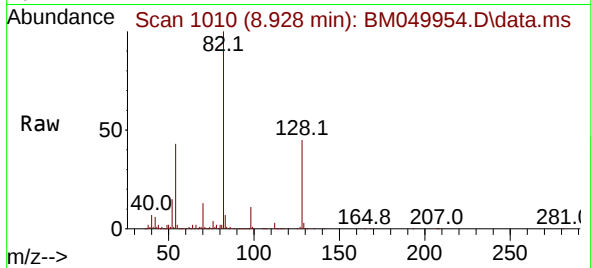




#23
Nitrobenzene-d5
Concen: 11.388 ng
RT: 8.928 min Scan# 110
Delta R.T. -0.006 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

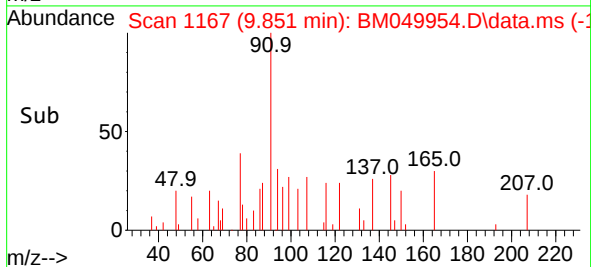
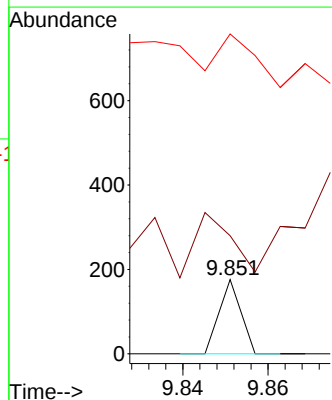
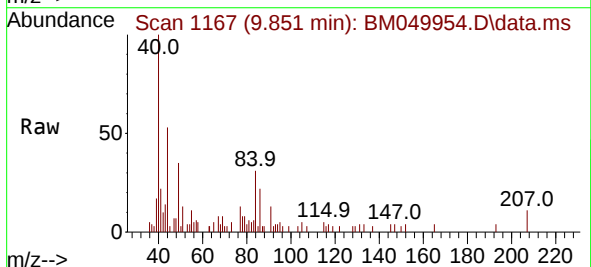
Instrument :
BNA_M
ClientSampleId :
OR-03-041425DL

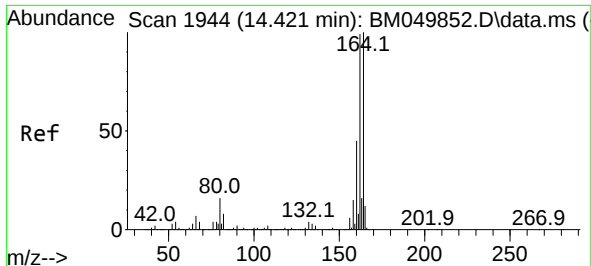
Tgt Ion: 82 Resp: 300433
Ion Ratio Lower Upper
82 100
128 44.6 36.2 54.2
54 43.5 35.0 52.6



#32
Benzoic acid
Concen: 8.541 ng
RT: 9.851 min Scan# 1167
Delta R.T. -0.024 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

Tgt Ion:122 Resp: 62
Ion Ratio Lower Upper
122 100
105 159.1 103.8 143.8#
77 430.7 70.7 110.7#

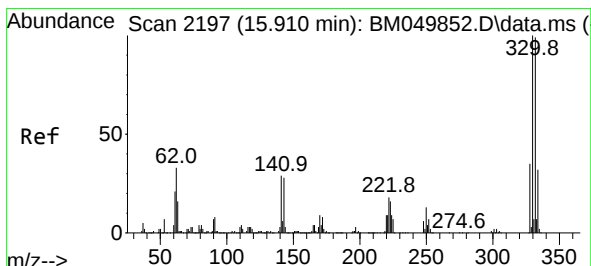
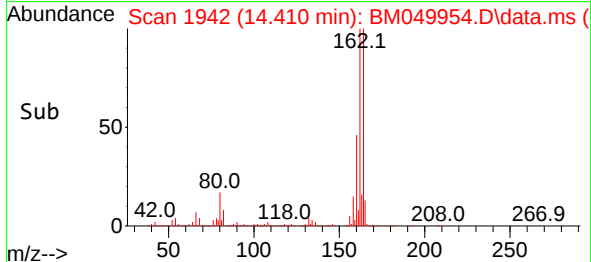
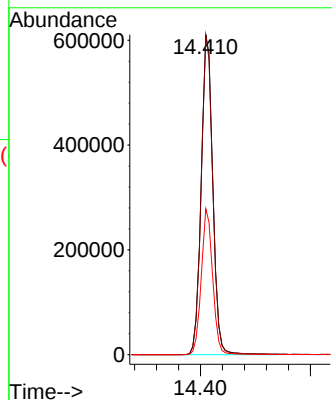
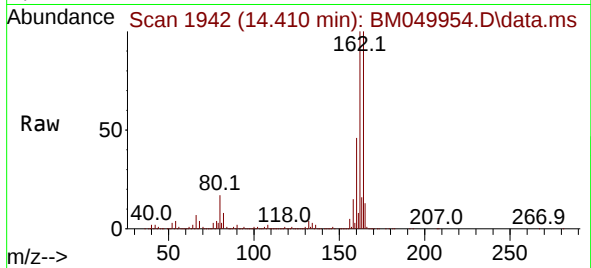




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.012 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

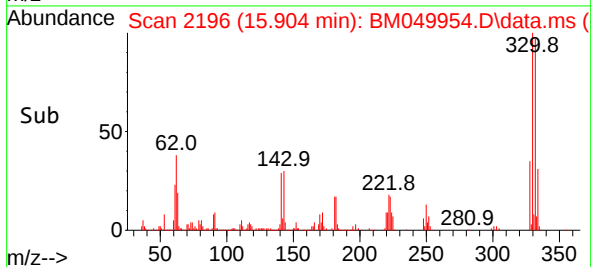
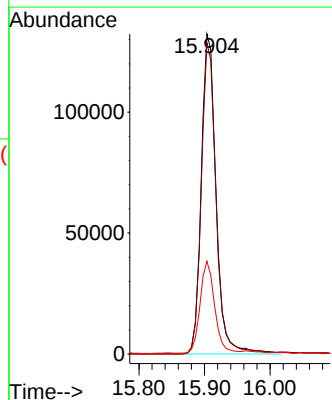
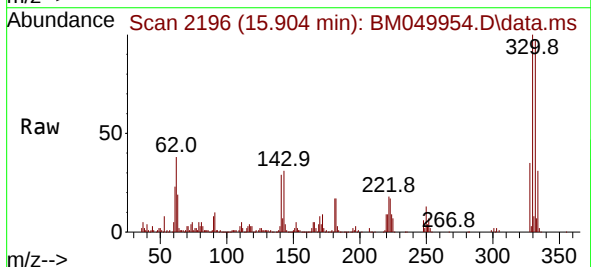
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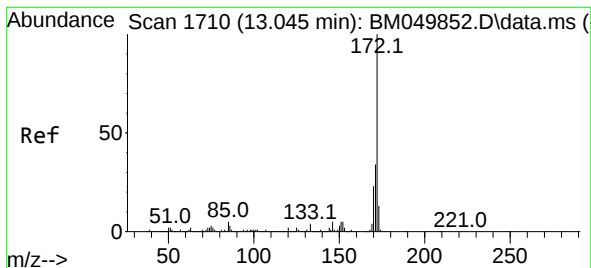
Tgt Ion:164 Resp: 897287
Ion Ratio Lower Upper
164 100
162 100.1 79.4 119.0
160 45.6 36.2 54.2



#42
2,4,6-Tribromophenol
Concen: 15.973 ng
RT: 15.904 min Scan# 2196
Delta R.T. -0.006 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

Tgt Ion:330 Resp: 208473
Ion Ratio Lower Upper
330 100
332 96.6 78.0 117.0
141 28.2 23.5 35.3





#45

2-Fluorobiphenyl

Concen: 10.846 ng

RT: 13.033 min Scan# 1

Delta R.T. -0.012 min

Lab File: BM049954.D

Acq: 16 Apr 2025 16:05

Instrument :

BNA_M

ClientSampleId :

OR-03-041425DL

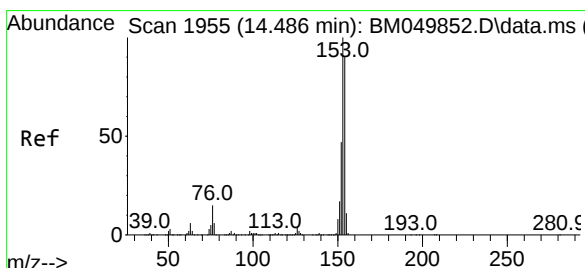
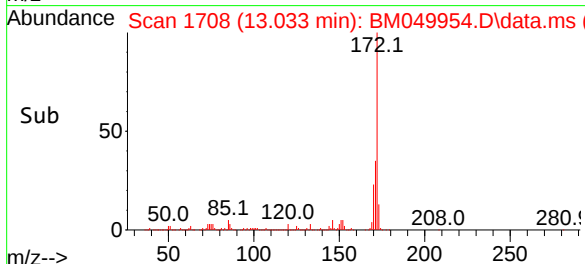
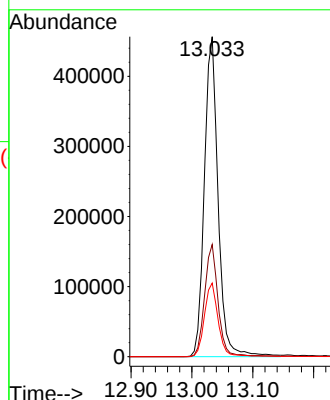
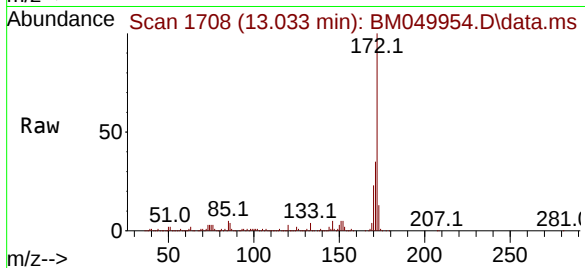
Tgt Ion:172 Resp: 717686

Ion Ratio Lower Upper

172 100

171 35.1 27.4 41.2

170 23.0 18.6 28.0



#52

Acenaphthene

Concen: 2.728 ng

RT: 14.474 min Scan# 1953

Delta R.T. -0.012 min

Lab File: BM049954.D

Acq: 16 Apr 2025 16:05

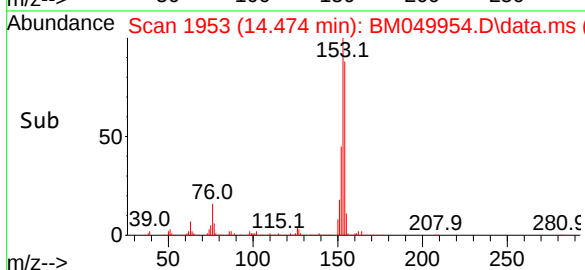
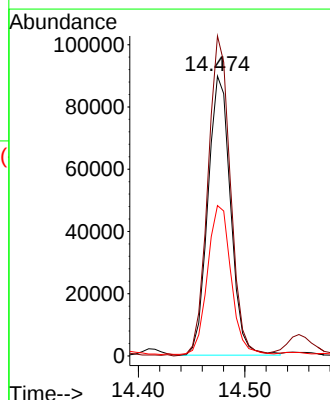
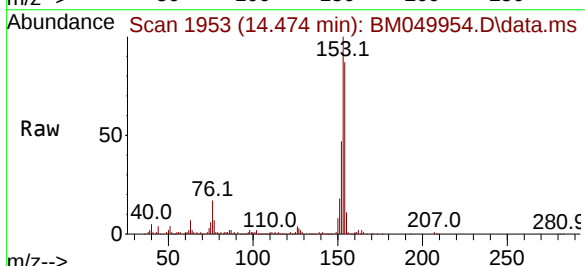
Tgt Ion:154 Resp: 132517

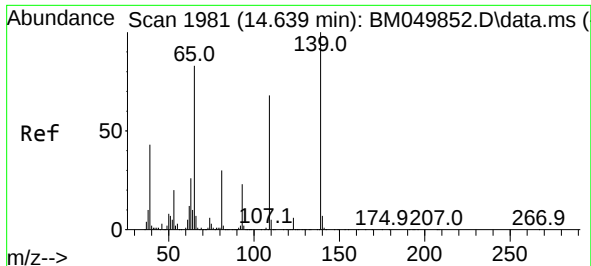
Ion Ratio Lower Upper

154 100

153 114.4 89.3 133.9

152 53.8 42.2 63.2

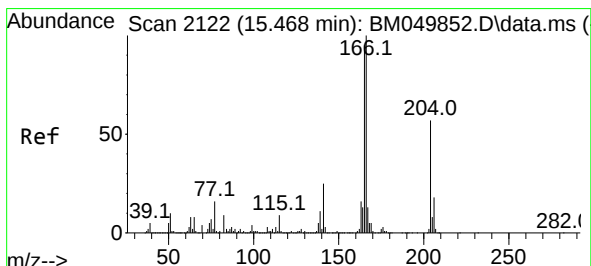
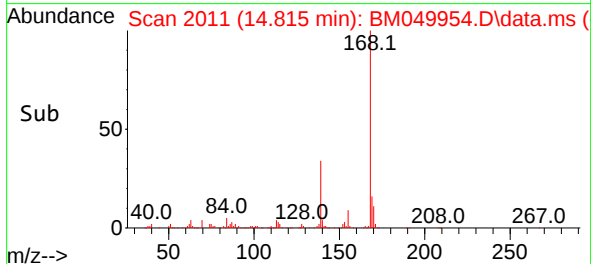
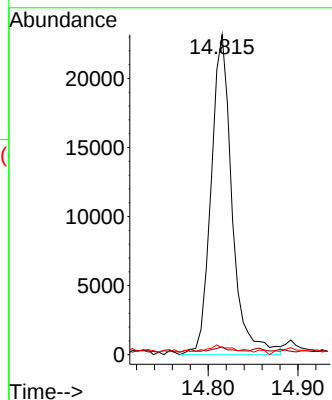
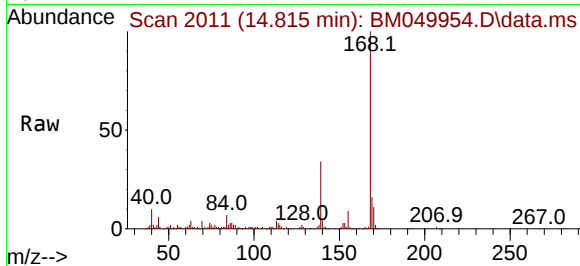




#56
4-Nitrophenol
Concen: 3.291 ng
RT: 14.815 min Scan# 20
Delta R.T. 0.176 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

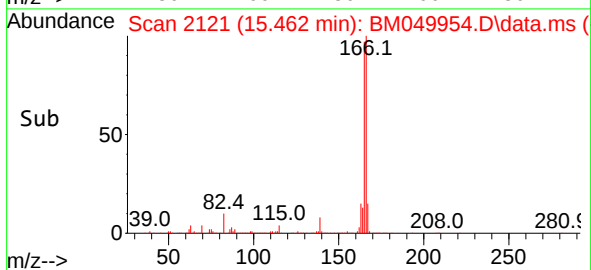
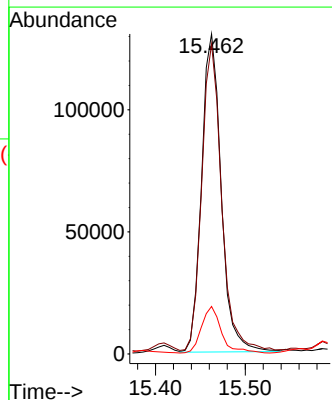
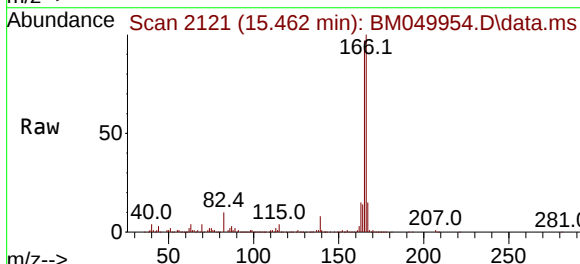
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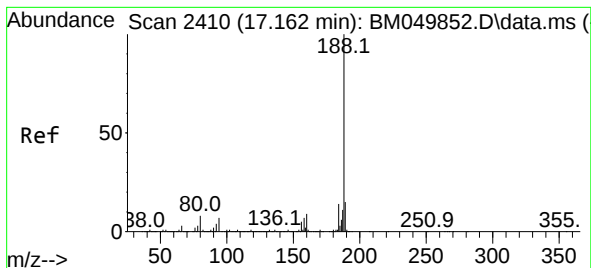
Tgt Ion:139 Resp: 37596
Ion Ratio Lower Upper
139 100
109 2.5 47.9 87.9#
65 2.2 62.7 102.7#



#58
Fluorene
Concen: 3.063 ng
RT: 15.462 min Scan# 2121
Delta R.T. -0.006 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

Tgt Ion:166 Resp: 197696
Ion Ratio Lower Upper
166 100
165 96.9 76.3 114.5
167 14.8 10.7 16.1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.156 min Scan# 2410

Delta R.T. -0.006 min

Lab File: BM049954.D

Acq: 16 Apr 2025 16:05

Instrument :

BNA_M

ClientSampleId :

OR-03-041425DL

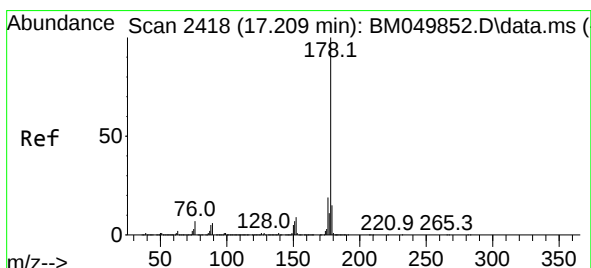
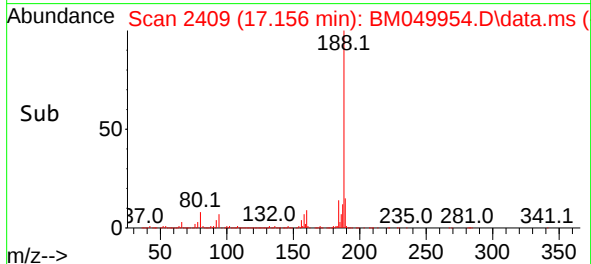
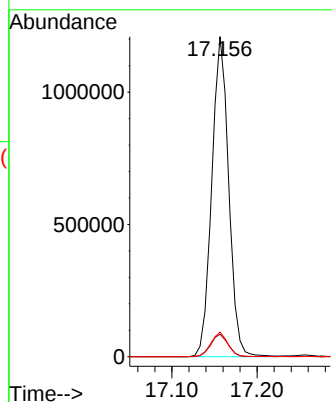
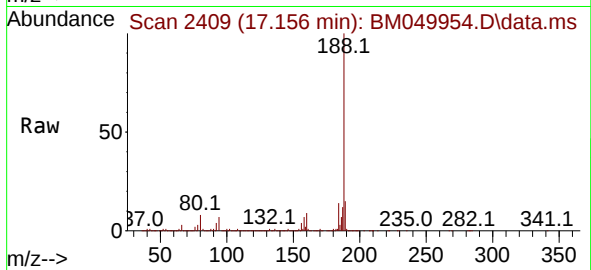
Tgt Ion:188 Resp: 1665896

Ion Ratio Lower Upper

188 100

94 7.0 5.8 8.6

80 7.7 6.4 9.6



#71

Phenanthrene

Concen: 26.580 ng

RT: 17.198 min Scan# 2416

Delta R.T. -0.012 min

Lab File: BM049954.D

Acq: 16 Apr 2025 16:05

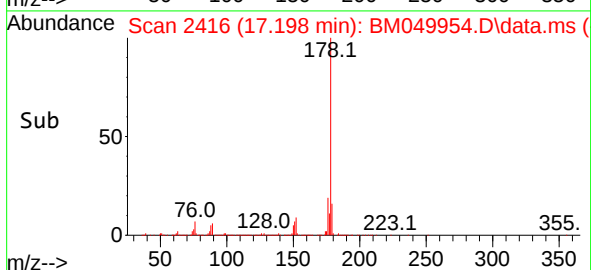
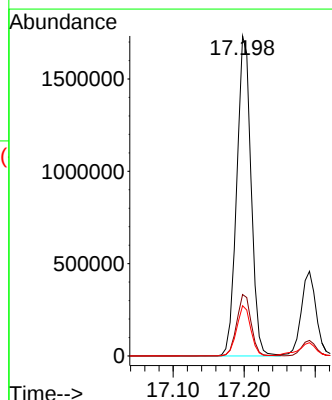
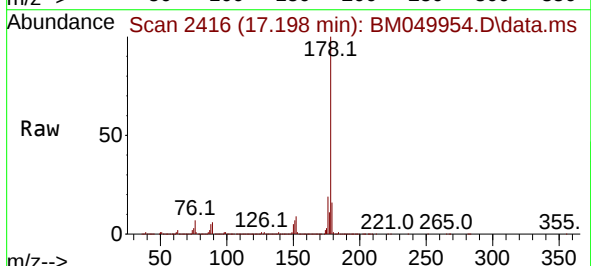
Tgt Ion:178 Resp: 2427573

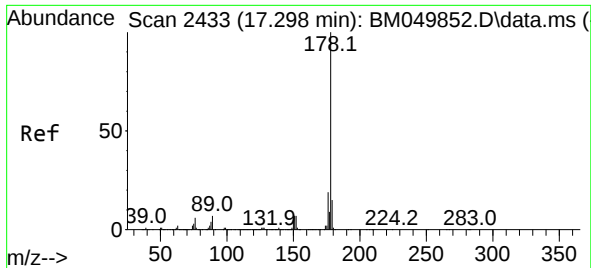
Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

179 15.7 12.3 18.5

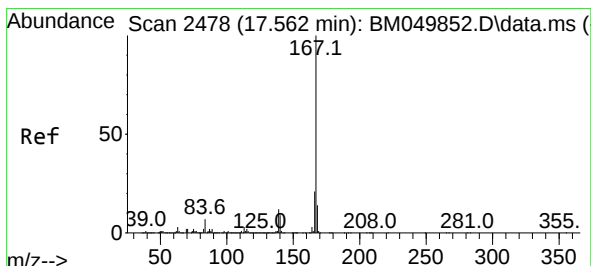
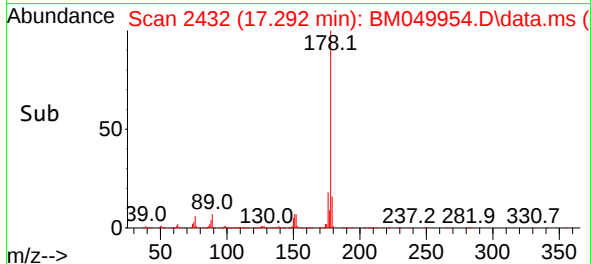
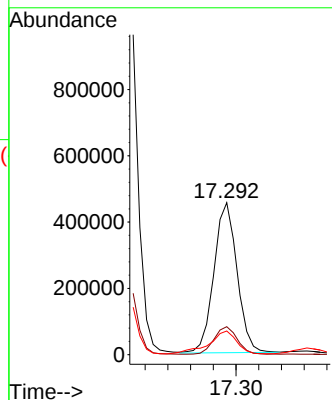
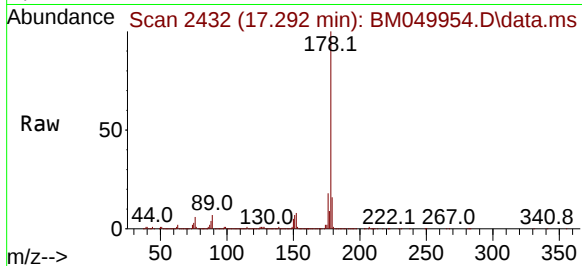




#72
 Anthracene
 Concen: 7.121 ng
 RT: 17.292 min Scan# 2433
 Delta R.T. -0.006 min
 Lab File: BM049954.D
 Acq: 16 Apr 2025 16:05

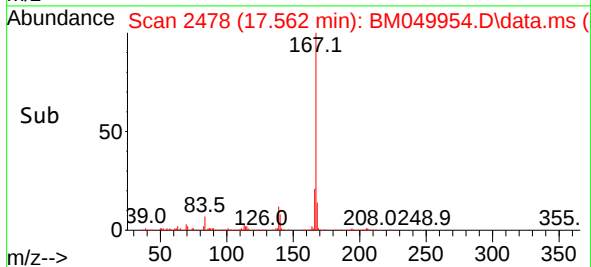
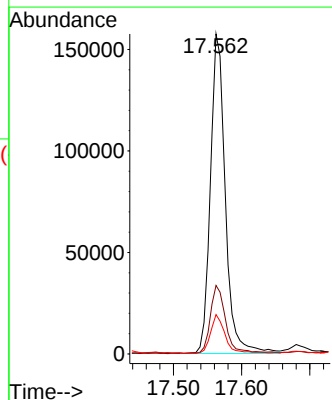
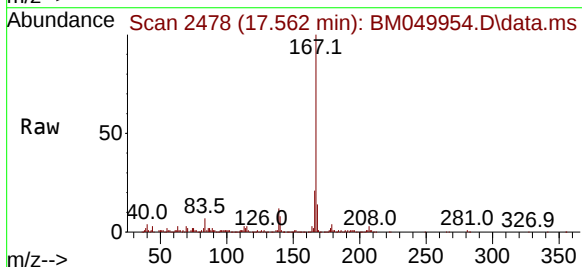
Instrument :
 BNA_M
 ClientSampleId :
 OR-03-041425DL

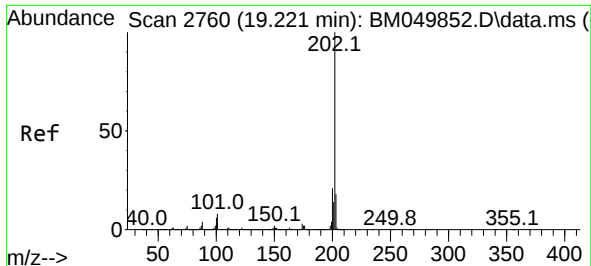
Tgt Ion:178 Resp: 640940
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.1 22.7
 179 15.6 12.4 18.6



#73
 Carbazole
 Concen: 2.832 ng
 RT: 17.562 min Scan# 2478
 Delta R.T. -0.000 min
 Lab File: BM049954.D
 Acq: 16 Apr 2025 16:05

Tgt Ion:167 Resp: 240113
 Ion Ratio Lower Upper
 167 100
 166 21.4 16.9 25.3
 139 12.3 9.3 13.9

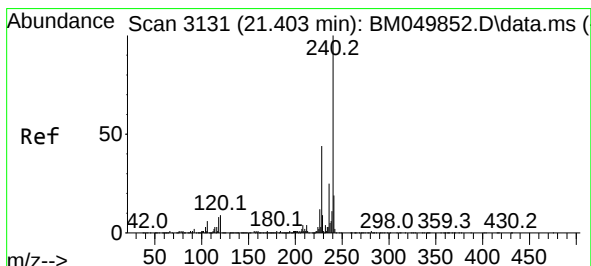
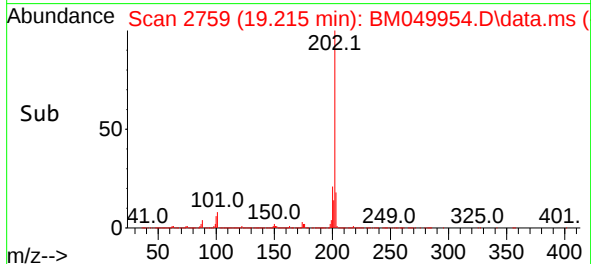
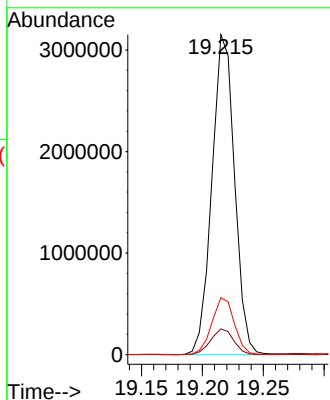
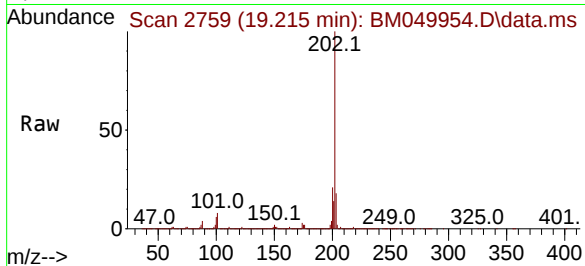




#75
Fluoranthene
Concen: 36.303 ng
RT: 19.215 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

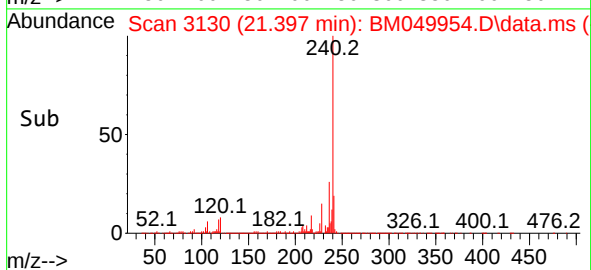
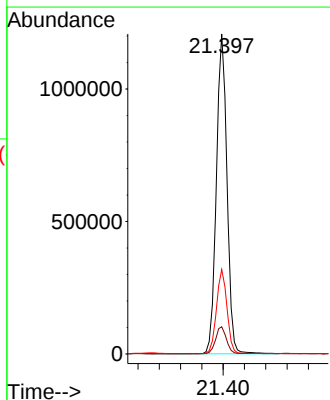
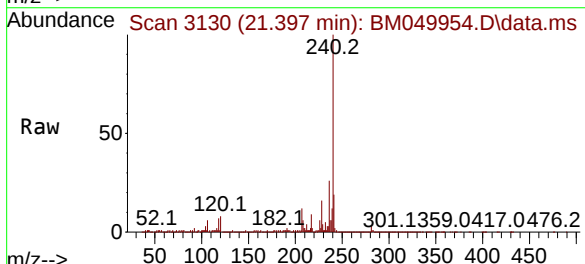
Instrument :
BNA_M
ClientSampleId :
OR-03-041425DL

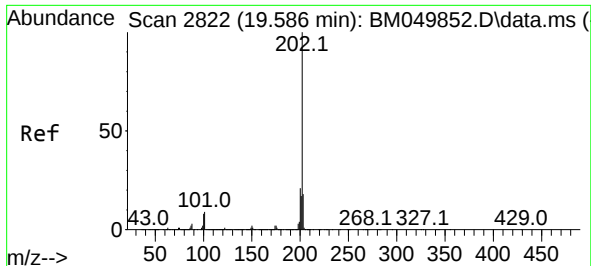
Tgt Ion:202 Resp: 4076708
Ion Ratio Lower Upper
202 100
101 8.1 0.0 28.4
203 17.8 0.0 37.8



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.397 min Scan# 3130
Delta R.T. -0.006 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

Tgt Ion:240 Resp: 1666327
Ion Ratio Lower Upper
240 100
120 8.5 6.9 10.3
236 26.4 20.4 30.6

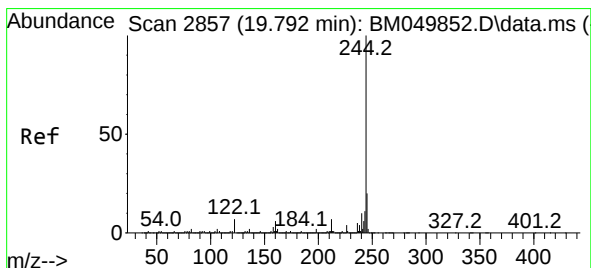
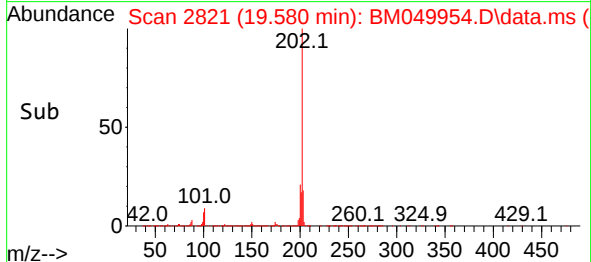
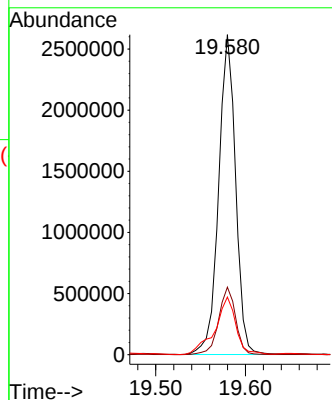
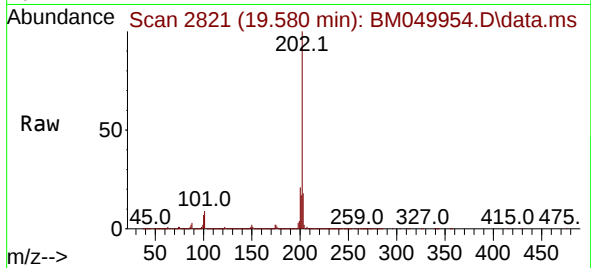




#78
 Pyrene
 Concen: 29.926 ng
 RT: 19.580 min Scan# 2822
 Delta R.T. -0.006 min
 Lab File: BM049954.D
 Acq: 16 Apr 2025 16:05

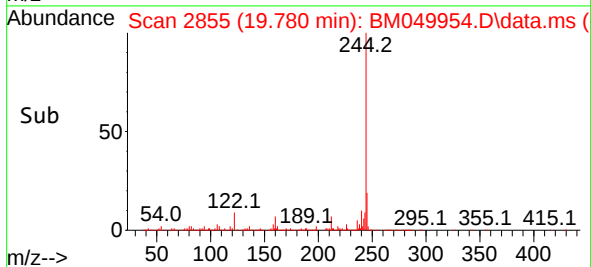
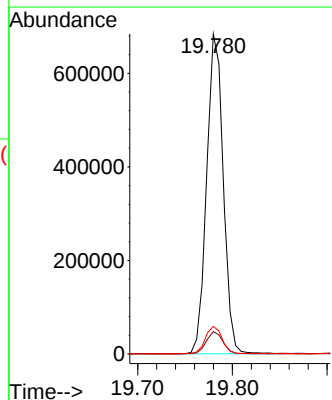
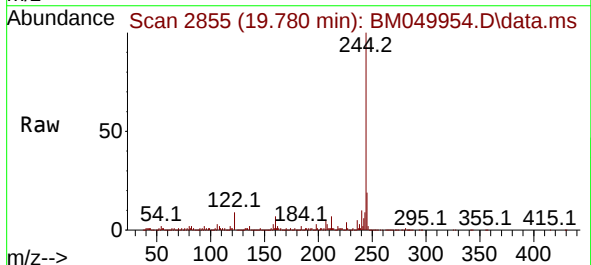
Instrument :
 BNA_M
 ClientSampleId :
 OR-03-041425DL

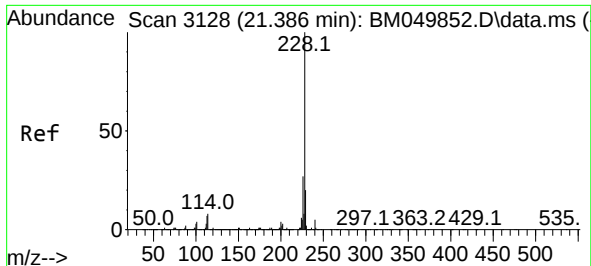
Tgt Ion:202 Resp: 3436753
 Ion Ratio Lower Upper
 202 100
 200 21.1 16.5 24.7
 203 18.0 14.0 21.0



#79
 Terphenyl-d14
 Concen: 9.349 ng
 RT: 19.780 min Scan# 2855
 Delta R.T. -0.012 min
 Lab File: BM049954.D
 Acq: 16 Apr 2025 16:05

Tgt Ion:244 Resp: 831234
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.5 8.3
 122 8.6 5.4 8.0#

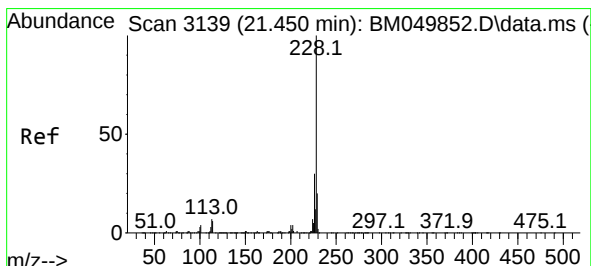
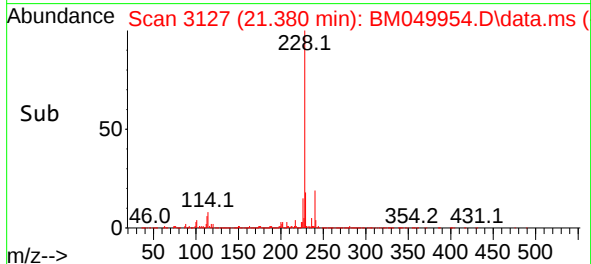
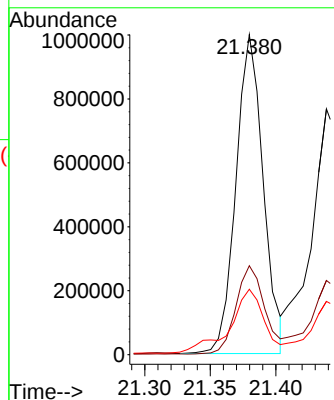
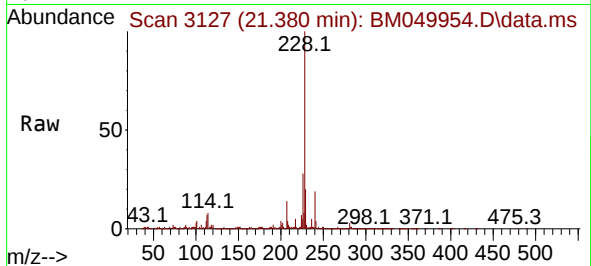




#81
Benzo(a)anthracene
Concen: 13.013 ng
RT: 21.380 min Scan# 31
Delta R.T. -0.006 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

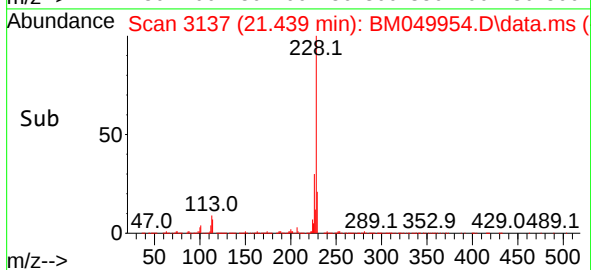
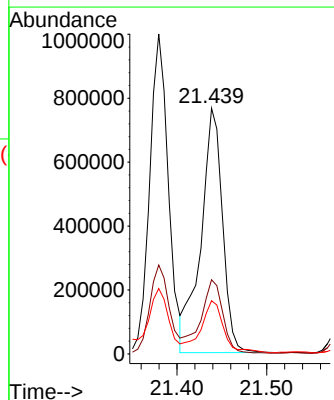
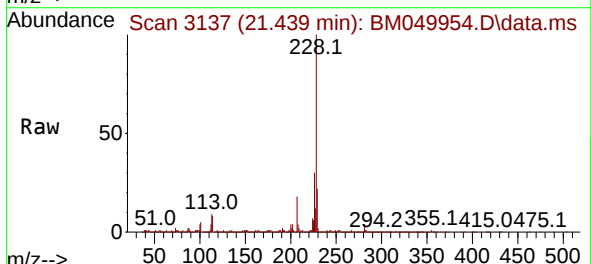
Instrument :
BNA_M
ClientSampleId :
OR-03-041425DL

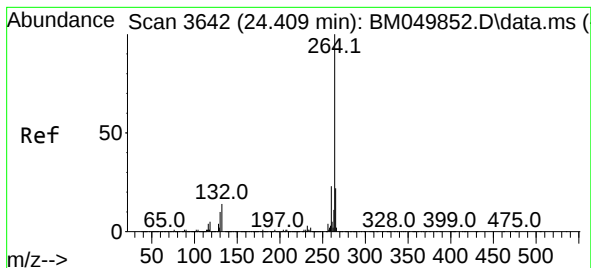
Tgt Ion:228 Resp: 1441132
Ion Ratio Lower Upper
228 100
226 27.8 21.8 32.8
229 20.5 15.8 23.8



#83
Chrysene
Concen: 12.197 ng
RT: 21.439 min Scan# 3137
Delta R.T. -0.012 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

Tgt Ion:228 Resp: 1284139
Ion Ratio Lower Upper
228 100
226 30.2 24.1 36.1
229 21.7 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.403 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM049954.D

Acq: 16 Apr 2025 16:05

Instrument :

BNA_M

ClientSampleId :

OR-03-041425DL

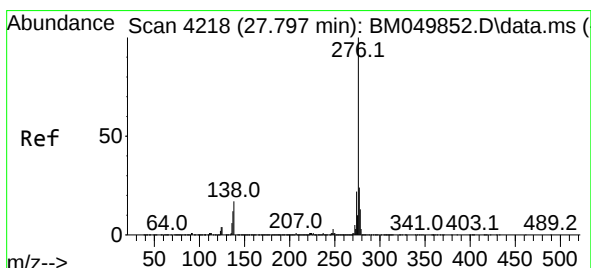
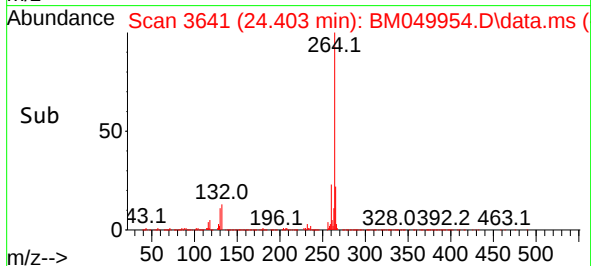
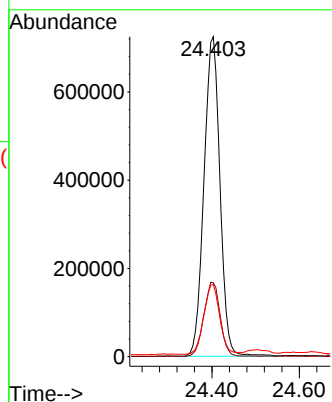
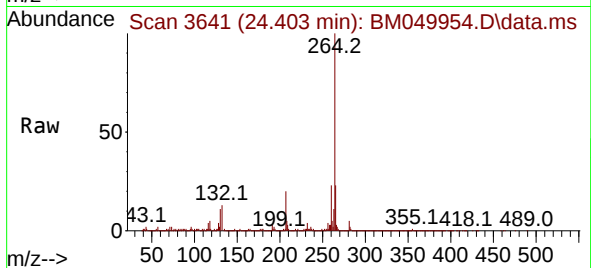
Tgt Ion:264 Resp: 1846834

Ion Ratio Lower Upper

264 100

260 23.1 18.6 28.0

265 22.6 17.8 26.8



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.744 ng

RT: 27.785 min Scan# 4216

Delta R.T. -0.012 min

Lab File: BM049954.D

Acq: 16 Apr 2025 16:05

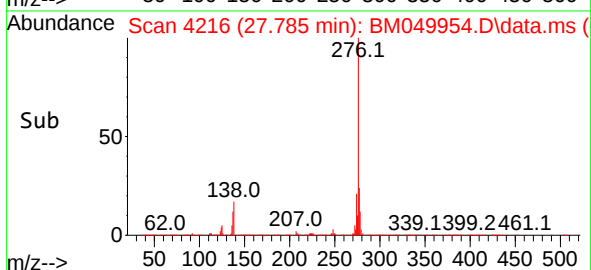
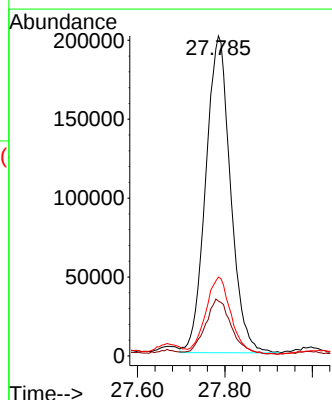
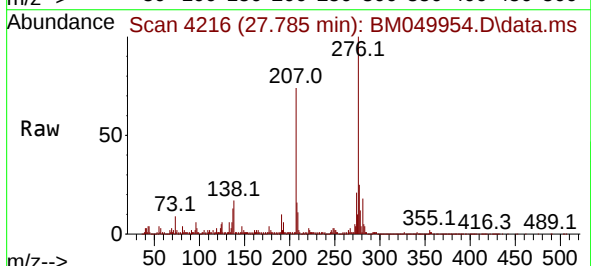
Tgt Ion:276 Resp: 790733

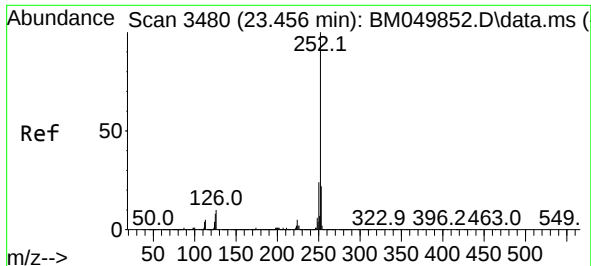
Ion Ratio Lower Upper

276 100

138 18.0 16.8 25.2

277 24.9 20.1 30.1

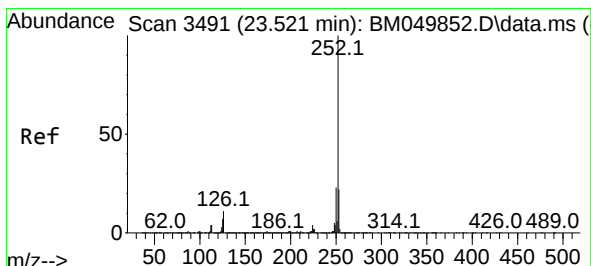
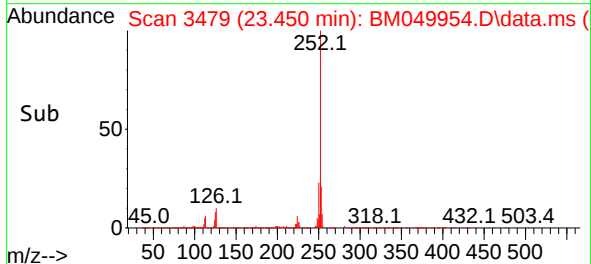
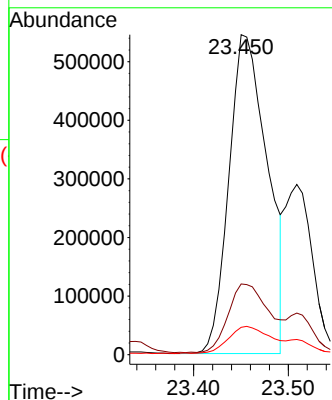
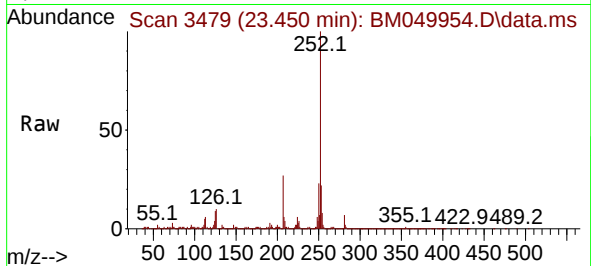




#88
Benzo(b)fluoranthene
Concen: 13.036 ng
RT: 23.450 min Scan# 3480
Delta R.T. -0.006 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

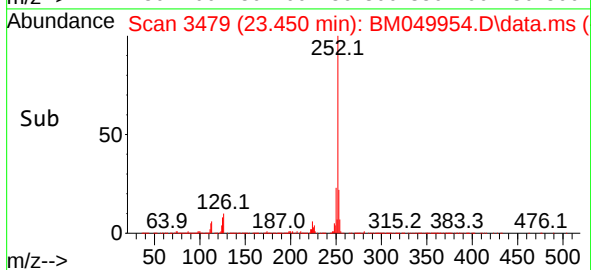
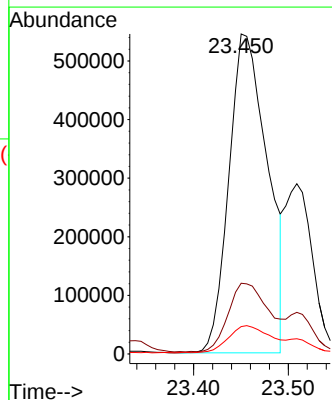
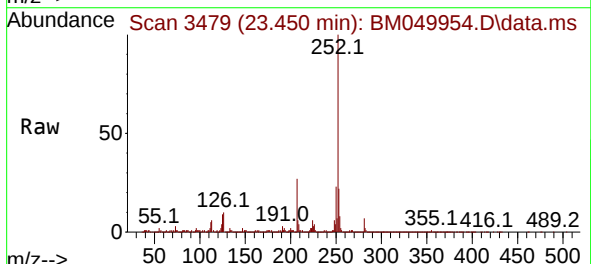
Instrument :
BNA_M
ClientSampleId :
OR-03-041425DL

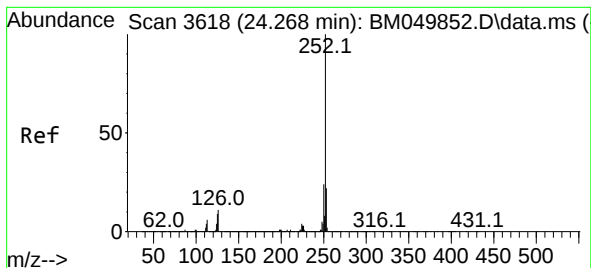
Tgt Ion:252 Resp: 1537648
Ion Ratio Lower Upper
252 100
253 22.1 17.5 26.3
125 8.6 6.2 9.4



#89
Benzo(k)fluoranthene
Concen: 13.452 ng
RT: 23.450 min Scan# 3479
Delta R.T. -0.071 min
Lab File: BM049954.D
Acq: 16 Apr 2025 16:05

Tgt Ion:252 Resp: 1537648
Ion Ratio Lower Upper
252 100
253 22.1 17.4 26.2
125 8.6 5.8 8.8





#90

Benzo(a)pyrene

Concen: 11.490 ng

RT: 24.256 min Scan# 3

Delta R.T. -0.012 min

Lab File: BM049954.D

Acq: 16 Apr 2025 16:05

Instrument :

BNA_M

ClientSampleId :

OR-03-041425DL

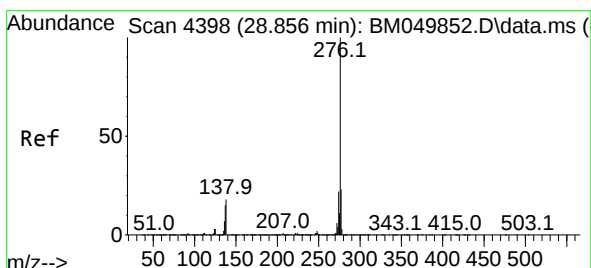
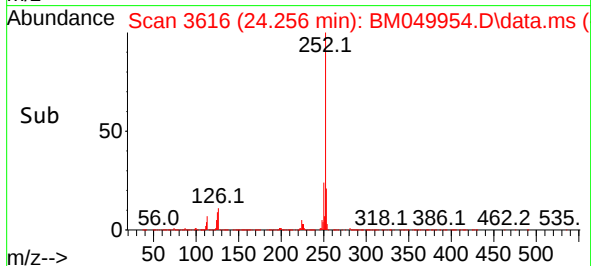
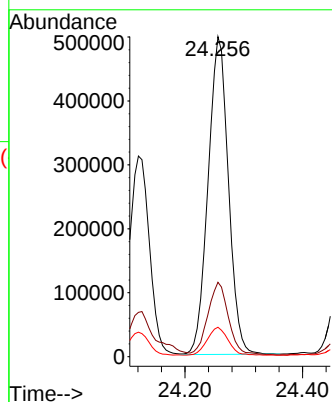
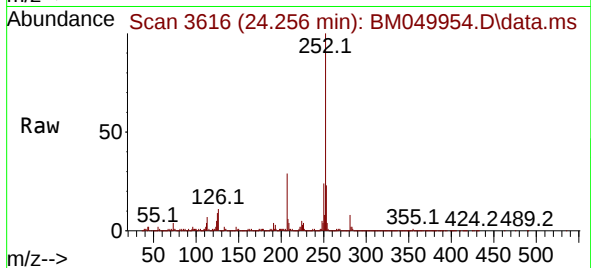
Tgt Ion:252 Resp: 1190865

Ion Ratio Lower Upper

252 100

253 23.2 17.8 26.8

125 9.2 7.0 10.4



#92

Benzo(g,h,i)perylene

Concen: 6.818 ng

RT: 28.838 min Scan# 4395

Delta R.T. -0.018 min

Lab File: BM049954.D

Acq: 16 Apr 2025 16:05

Tgt Ion:276 Resp: 789996

Ion Ratio Lower Upper

276 100

277 23.3 18.7 28.1

138 18.2 14.6 21.8

