

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071025\
 Data File : BM050394.D
 Acq On : 10 Jul 2025 17:58
 Operator : RC/JU
 Sample : Q2543-02
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 TP-49

Quant Time: Jul 11 01:25:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 08 18:32:25 2025
 Response via : Initial Calibration

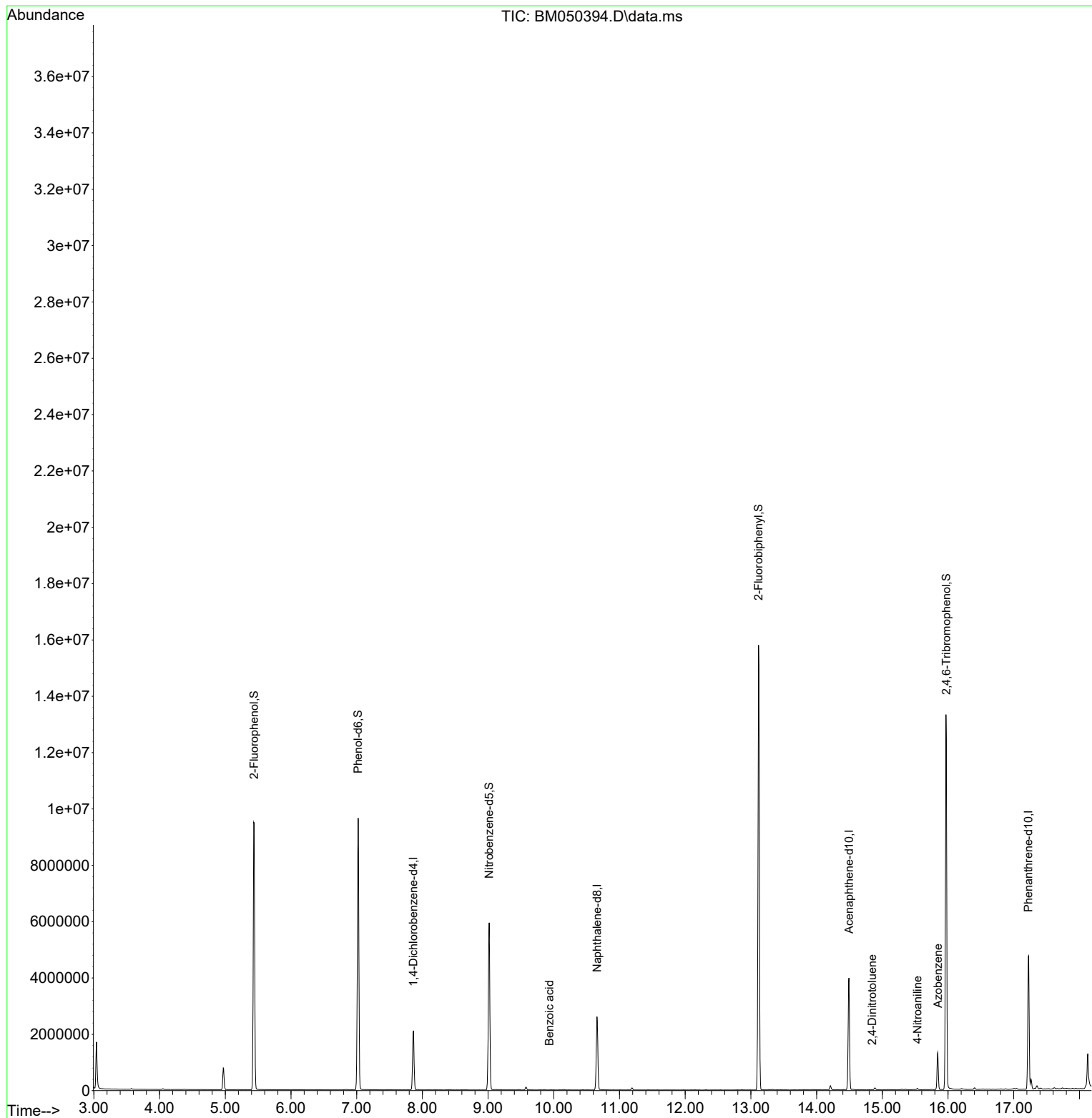
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.863	152	577892	20.000	ng	0.00
21) Naphthalene-d8	10.657	136	2139763	20.000	ng	0.00
39) Acenaphthene-d10	14.492	164	1403470	20.000	ng	0.00
64) Phenanthrene-d10	17.221	188	2861157	20.000	ng	0.00
76) Chrysene-d12	21.450	240	3176116	20.000	ng	0.00
86) Perylene-d12	24.491	264	2913679	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	4220540	125.714	ng	0.00
7) Phenol-d6	7.022	99	5401795	127.636	ng	0.00
23) Nitrobenzene-d5	9.016	82	3178574	75.786	ng	0.00
42) 2,4,6-Tribromophenol	15.974	330	2480637	145.472	ng	0.00
45) 2-Fluorobiphenyl	13.116	172	8221308	72.340	ng	0.00
79) Terphenyl-d14	19.839	244	12608869	69.849	ng	0.00
Target Compounds						
32) Benzoic acid	9.934	122	57	5.977	ng	# 1
57) 2,4-Dinitrotoluene	14.845	165	528	2.742	ng	# 22
62) 4-Nitroaniline	15.533	138	122	2.592	ng	# 20
63) Azobenzene	15.845	77	348929	4.117	ng	# 1
75) Fluoranthene	19.274	202	1223856	6.954	ng	99
78) Pyrene	19.633	202	1111277	5.463	ng	99
81) Benzo(a)anthracene	21.433	228	700934	3.387	ng	95
83) Chrysene	21.492	228	707297	3.624	ng	98
88) Benzo(b)fluoranthene	23.527	252	980799	5.473	ng	98
89) Benzo(k)fluoranthene	23.527	252	980799	5.274	ng	98
90) Benzo(a)pyrene	24.344	252	629576	3.753	ng	100
92) Benzo(g,h,i)perylene	28.985	276	351305	2.131	ng	98

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

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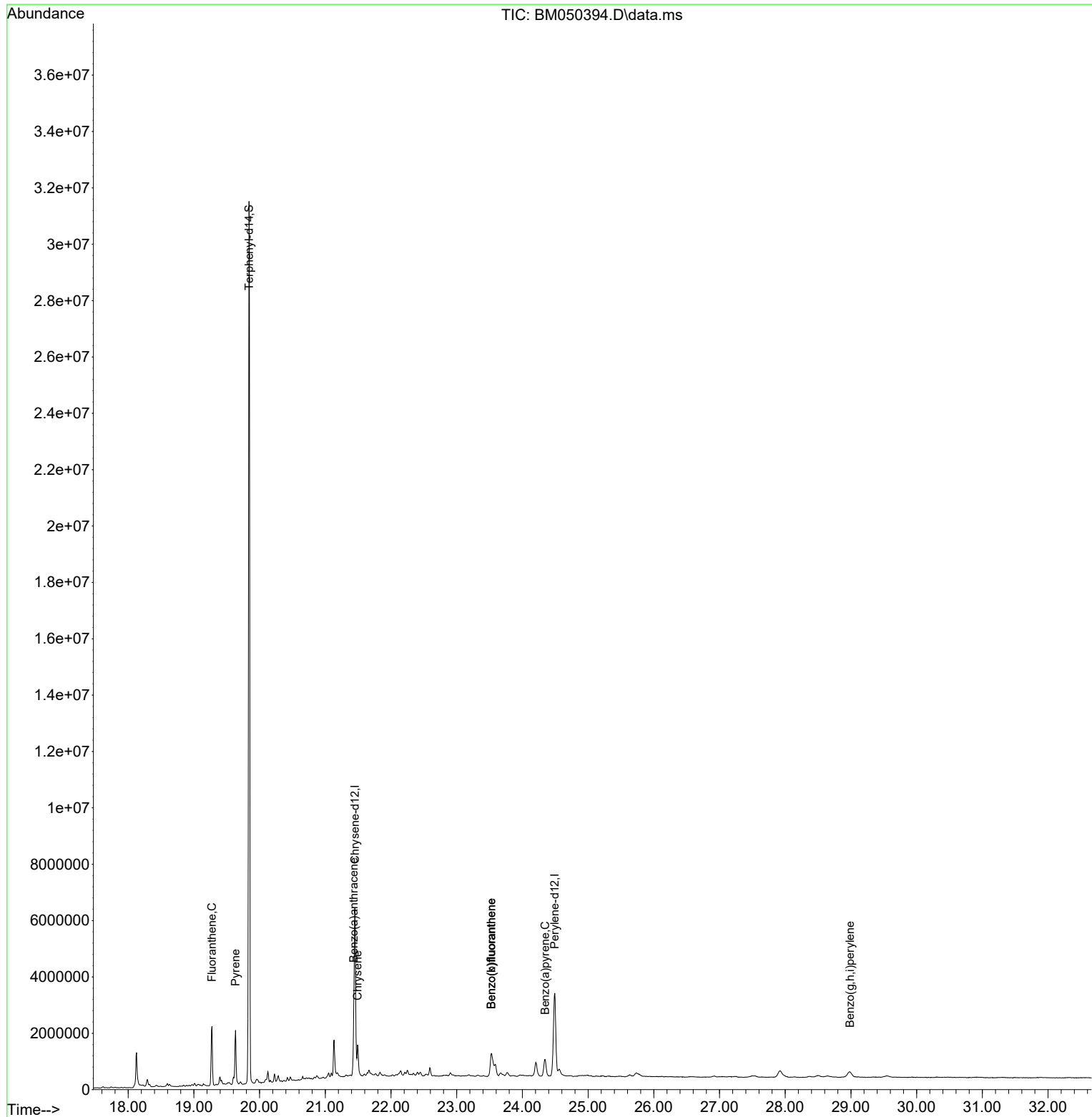
Quant Time: Jul 11 01:25:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
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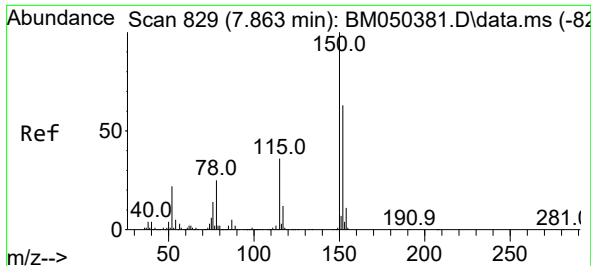


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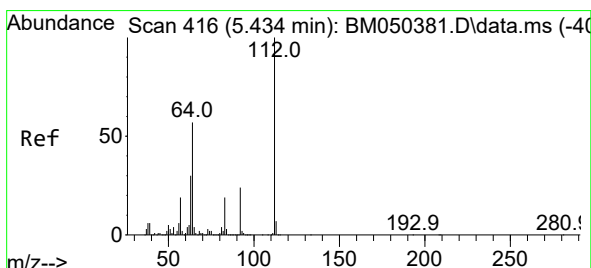
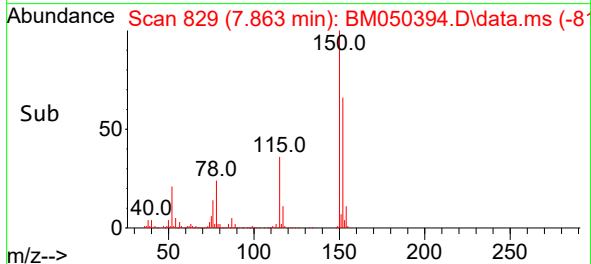
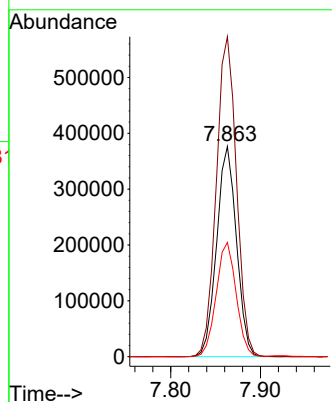
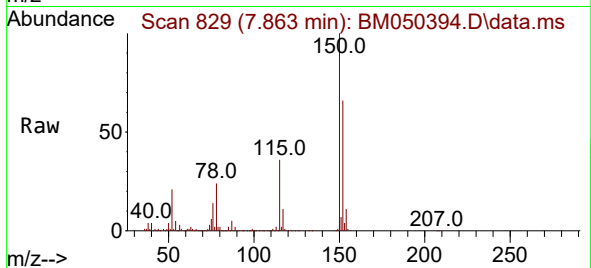




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.863 min Scan# 81
Delta R.T. 0.000 min
Lab File: BM050394.D
Acq: 10 Jul 2025 17:58

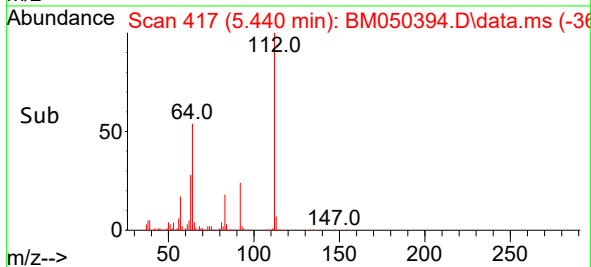
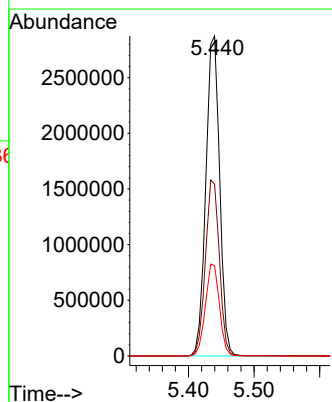
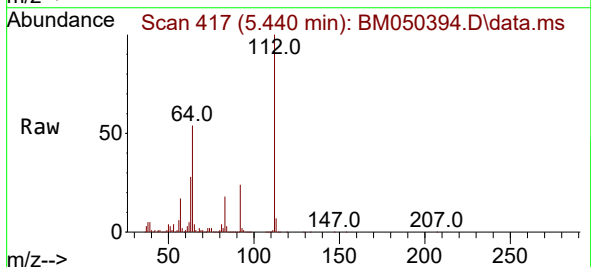
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BNA_M
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TP-49

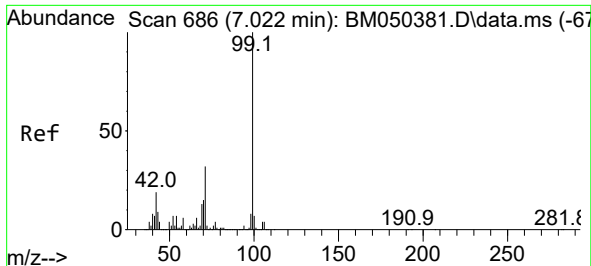
Tgt Ion:152 Resp: 577892
Ion Ratio Lower Upper
152 100
150 152.2 126.2 189.4
115 54.3 45.8 68.8



#5
2-Fluorophenol
Concen: 125.714 ng
RT: 5.440 min Scan# 417
Delta R.T. 0.006 min
Lab File: BM050394.D
Acq: 10 Jul 2025 17:58

Tgt Ion:112 Resp: 4220540
Ion Ratio Lower Upper
112 100
64 53.6 45.5 68.3
63 28.2 24.2 36.4

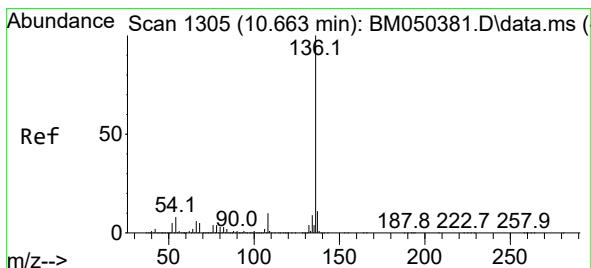
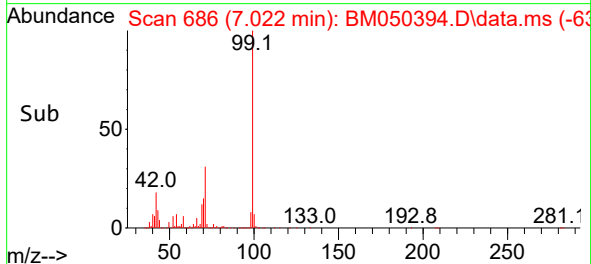
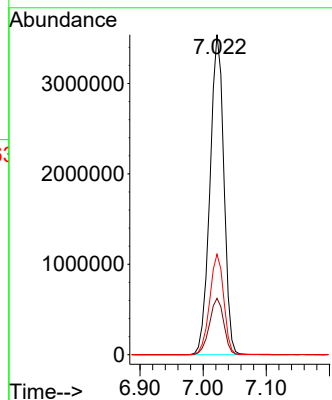
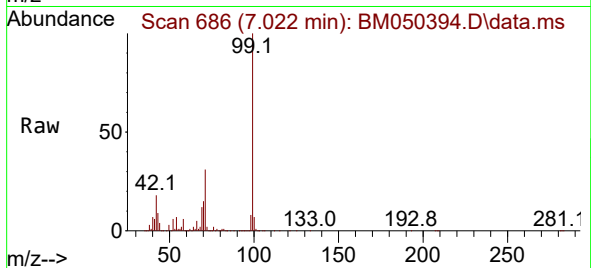




#7
Phenol-d6
Concen: 127.636 ng
RT: 7.022 min Scan# 686
Delta R.T. 0.000 min
Lab File: BM050394.D
Acq: 10 Jul 2025 17:58

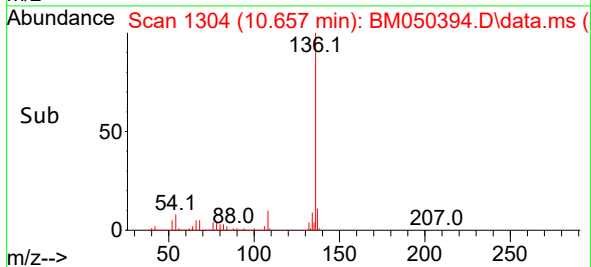
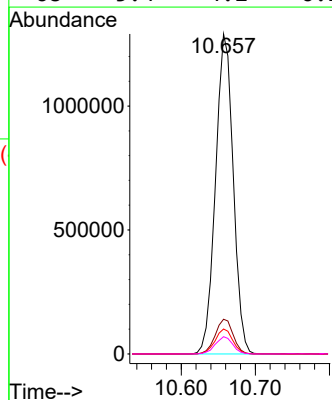
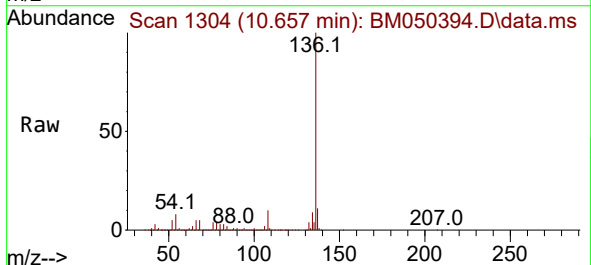
Instrument :
BNA_M
ClientSampleId :
TP-49

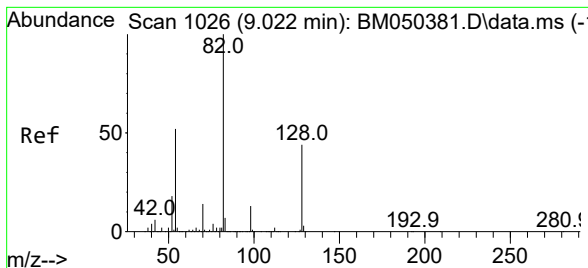
Tgt Ion: 99 Resp: 5401795
Ion Ratio Lower Upper
99 100
42 17.6 15.0 22.6
71 31.4 25.9 38.9



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.657 min Scan# 1304
Delta R.T. -0.006 min
Lab File: BM050394.D
Acq: 10 Jul 2025 17:58

Tgt Ion:136 Resp: 2139763
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 7.8 6.3 9.5
68 5.4 4.2 6.2





#23

Nitrobenzene-d5

Concen: 75.786 ng

RT: 9.016 min Scan# 1025

Delta R.T. -0.006 min

Lab File: BM050394.D

Acq: 10 Jul 2025 17:58

Instrument :

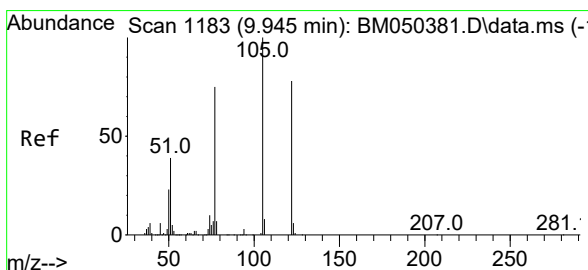
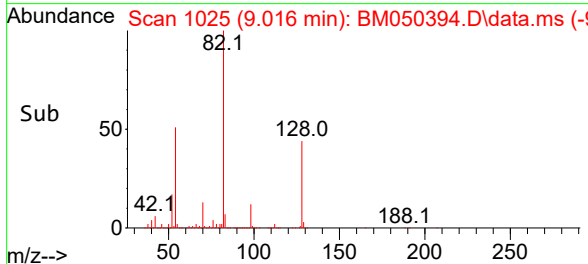
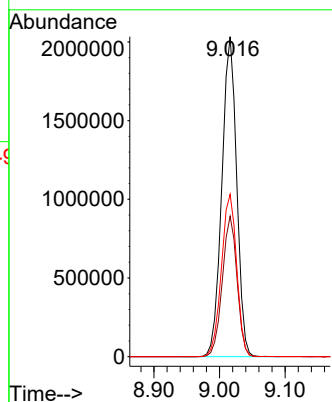
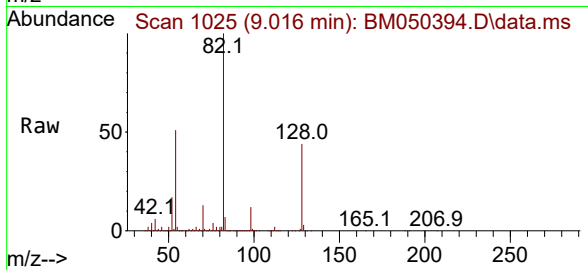
BNA_M

ClientSampleId :

TP-49

Tgt Ion: 82 Resp: 3178574

Ion	Ratio	Lower	Upper
82	100		
128	43.9	35.2	52.8
54	50.8	41.5	62.3



#32

Benzoic acid

Concen: 5.977 ng

RT: 9.934 min Scan# 1181

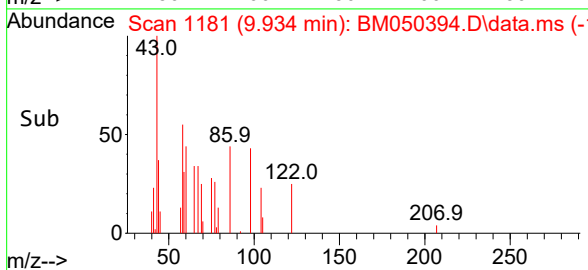
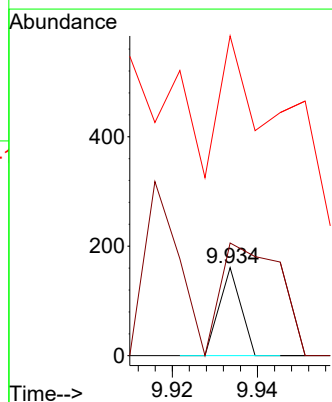
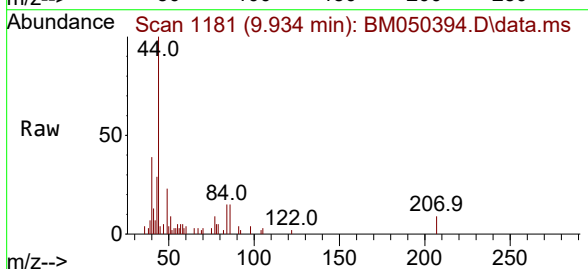
Delta R.T. -0.011 min

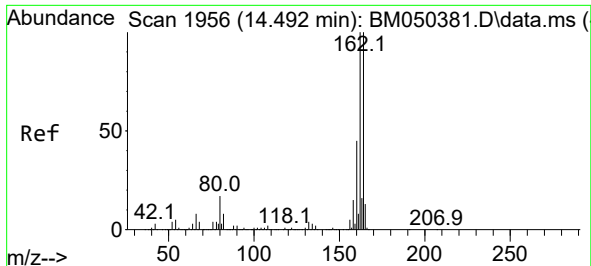
Lab File: BM050394.D

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Tgt Ion: 122 Resp: 57

Ion	Ratio	Lower	Upper
122	100		
105	128.0	104.0	144.0
77	362.7	73.8	113.8

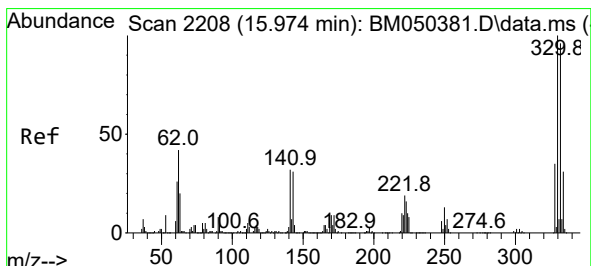
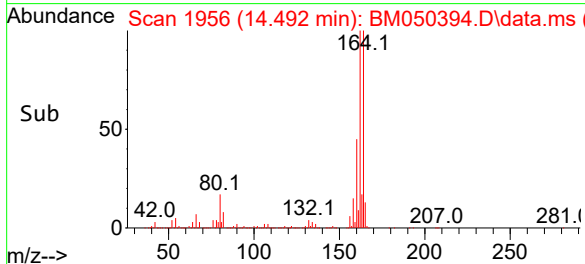
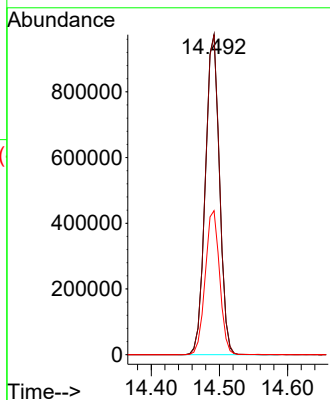
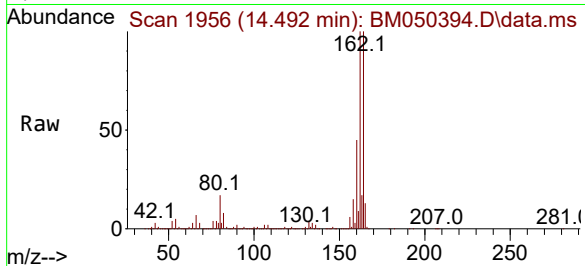




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.492 min Scan# 1956
Delta R.T. 0.000 min
Lab File: BM050394.D
Acq: 10 Jul 2025 17:58

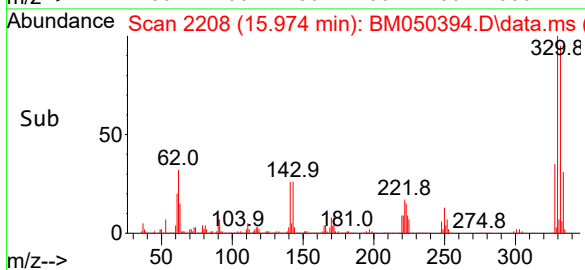
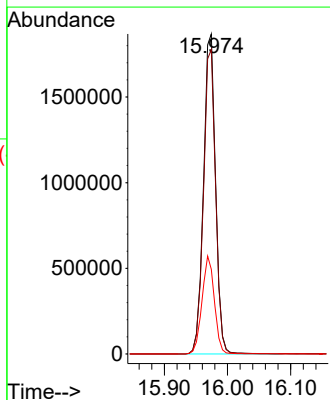
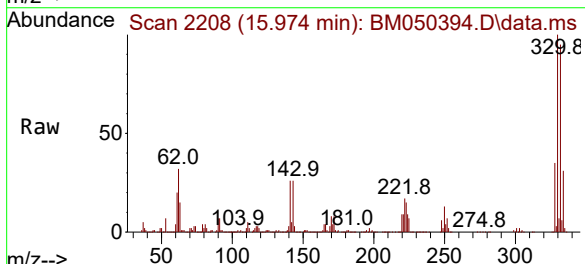
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ClientSampleId :
TP-49

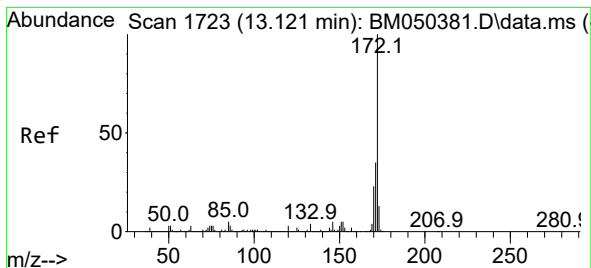
Tgt Ion:164 Resp: 1403470
Ion Ratio Lower Upper
164 100
162 99.8 79.9 119.9
160 45.0 36.2 54.4



#42
2,4,6-Tribromophenol
Concen: 145.472 ng
RT: 15.974 min Scan# 2208
Delta R.T. 0.000 min
Lab File: BM050394.D
Acq: 10 Jul 2025 17:58

Tgt Ion:330 Resp: 2480637
Ion Ratio Lower Upper
330 100
332 95.8 76.9 115.3
141 31.5 27.4 41.0





#45

2-Fluorobiphenyl

Concen: 72.340 ng

RT: 13.116 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM050394.D

Acq: 10 Jul 2025 17:58

Instrument :

BNA_M

ClientSampleId :

TP-49

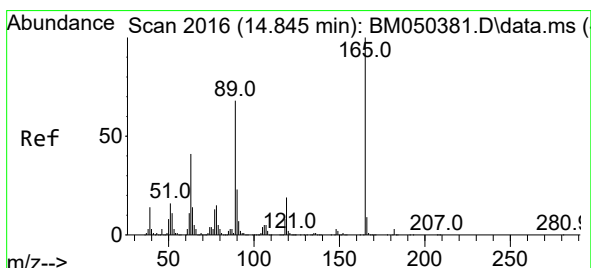
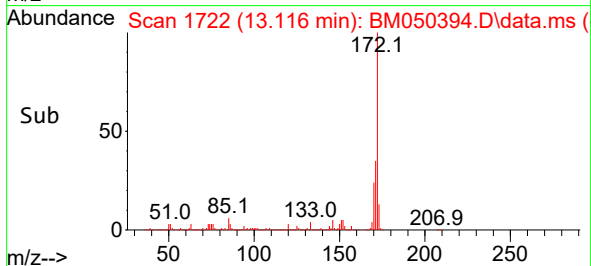
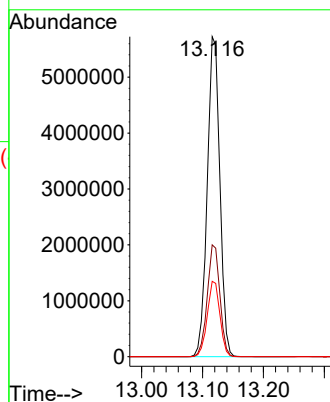
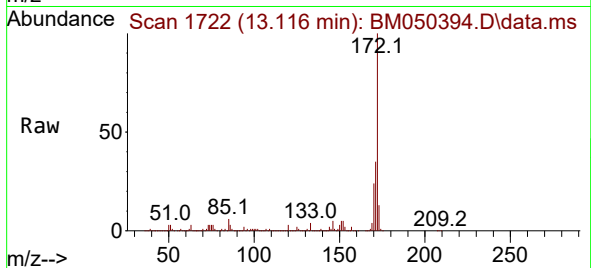
Tgt Ion:172 Resp: 8221308

Ion Ratio Lower Upper

172 100

171 35.0 27.7 41.5

170 23.5 18.8 28.2



#57

2,4-Dinitrotoluene

Concen: 2.742 ng

RT: 14.845 min Scan# 2016

Delta R.T. 0.000 min

Lab File: BM050394.D

Acq: 10 Jul 2025 17:58

Tgt Ion:165 Resp: 528

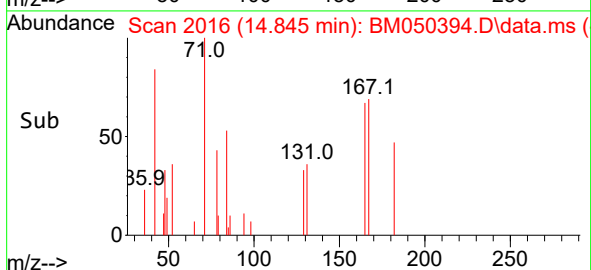
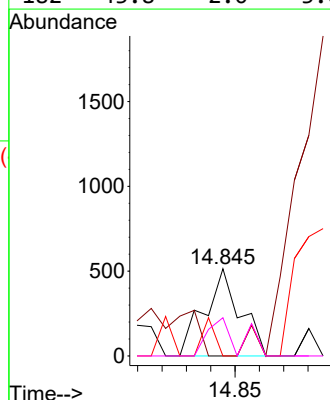
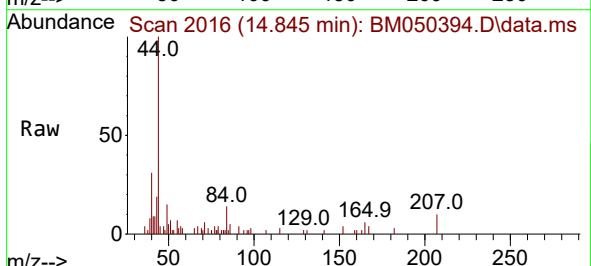
Ion Ratio Lower Upper

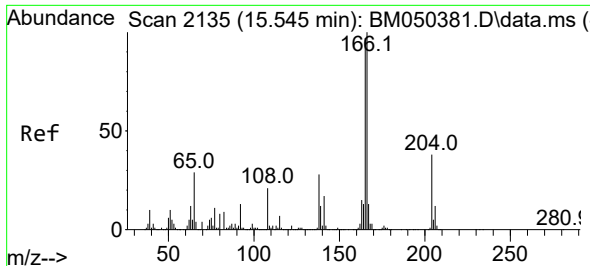
165 100

63 0.0 32.5 48.7#

89 0.0 54.0 81.0#

182 43.8 2.0 3.0#

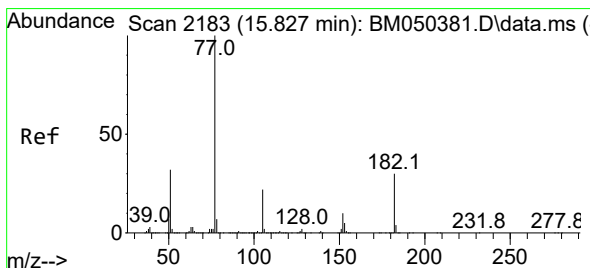
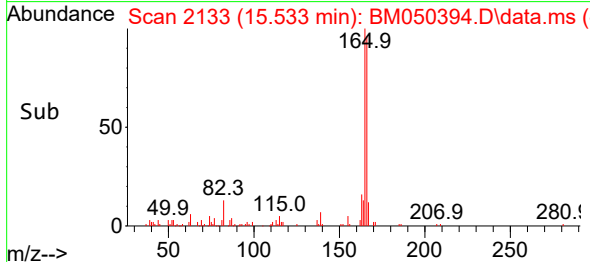
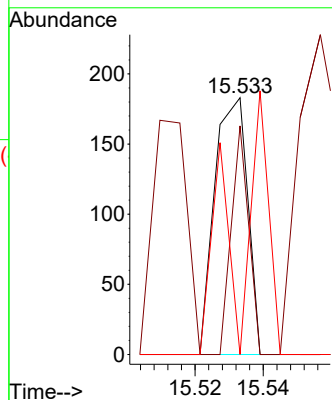
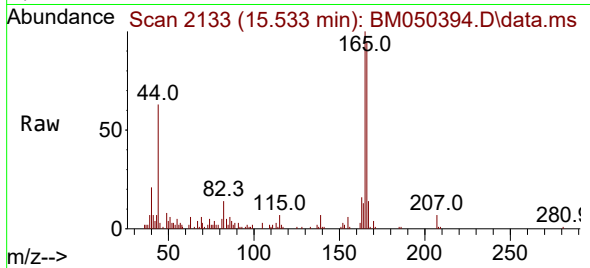




#62
4-Nitroaniline
Concen: 2.592 ng
RT: 15.533 min Scan# 2133
Delta R.T. -0.012 min
Lab File: BM050394.D
Acq: 10 Jul 2025 17:58

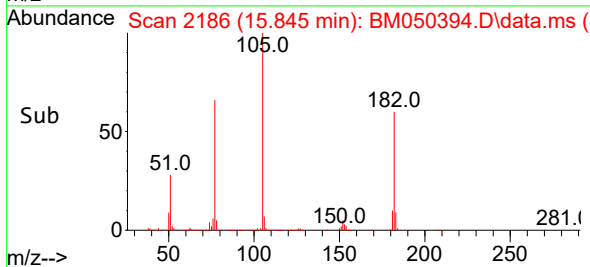
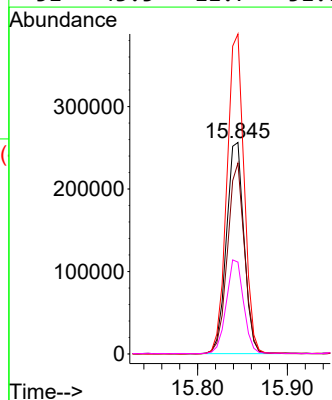
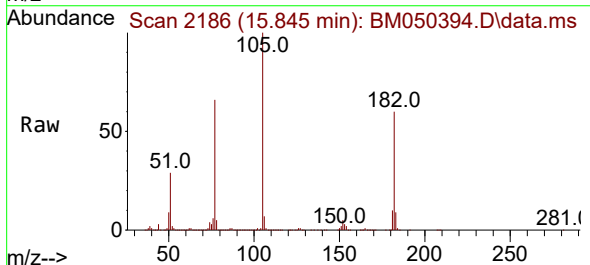
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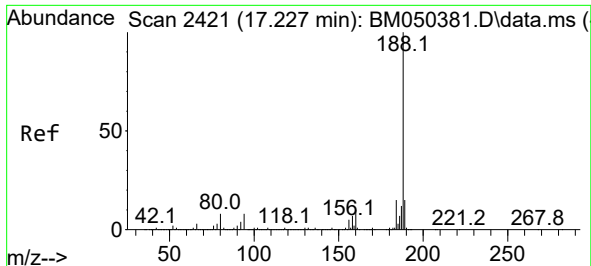
Tgt Ion:138 Resp: 122
Ion Ratio Lower Upper
138 100
92 89.1 24.5 64.5#
108 0.0 52.5 92.5#



#63
Azobenzene
Concen: 4.117 ng
RT: 15.845 min Scan# 2186
Delta R.T. 0.018 min
Lab File: BM050394.D
Acq: 10 Jul 2025 17:58

Tgt Ion: 77 Resp: 348929
Ion Ratio Lower Upper
77 100
182 90.2 10.0 50.0#
105 151.3 2.0 42.0#
51 43.5 11.7 51.7

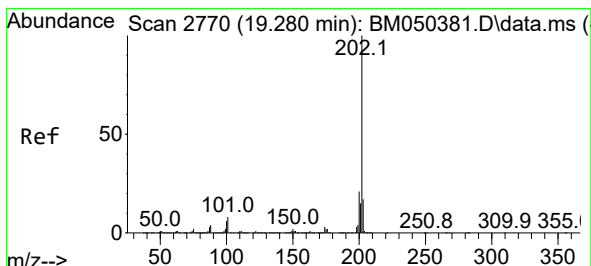
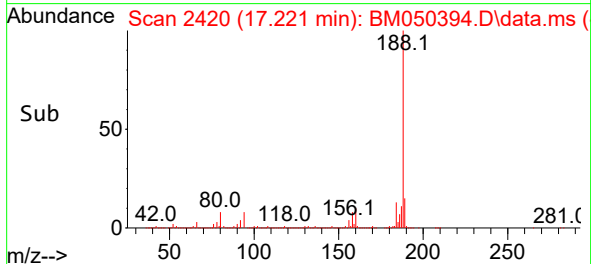
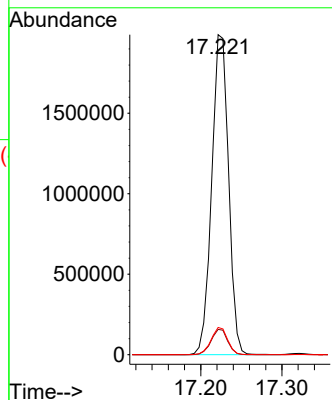
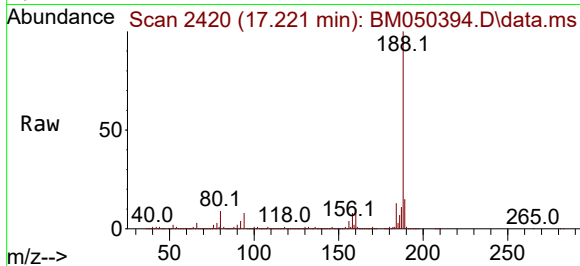




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.221 min Scan# 2421
Delta R.T. -0.006 min
Lab File: BM050394.D
Acq: 10 Jul 2025 17:58

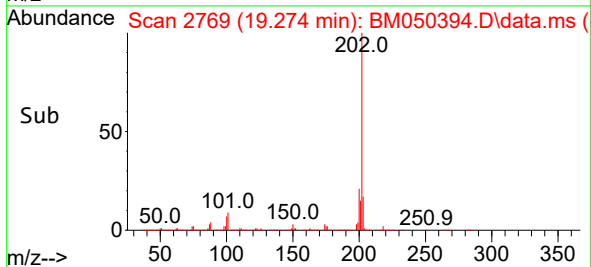
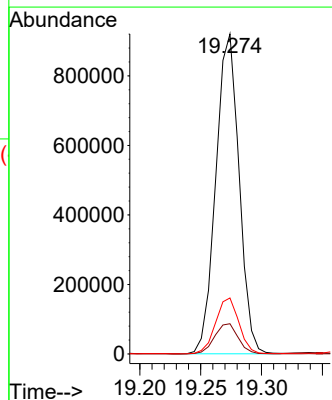
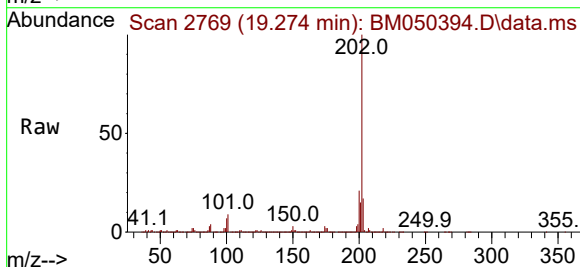
Instrument :
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TP-49

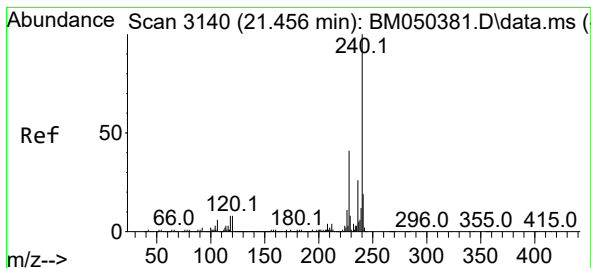
Tgt Ion:188 Resp: 2861157
Ion Ratio Lower Upper
188 100
94 7.9 6.0 9.0
80 8.5 6.5 9.7



#75
Fluoranthene
Concen: 6.954 ng
RT: 19.274 min Scan# 2769
Delta R.T. -0.006 min
Lab File: BM050394.D
Acq: 10 Jul 2025 17:58

Tgt Ion:202 Resp: 1223856
Ion Ratio Lower Upper
202 100
101 9.4 0.0 28.3
203 17.5 0.0 37.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.450 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM050394.D

Acq: 10 Jul 2025 17:58

Instrument :

BNA_M

ClientSampleId :

TP-49

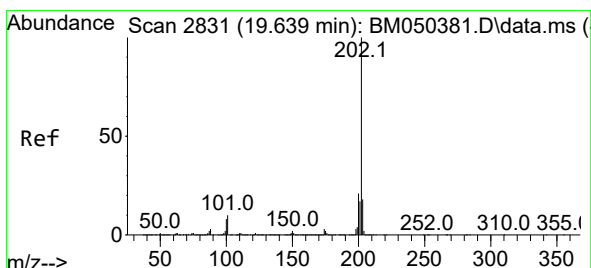
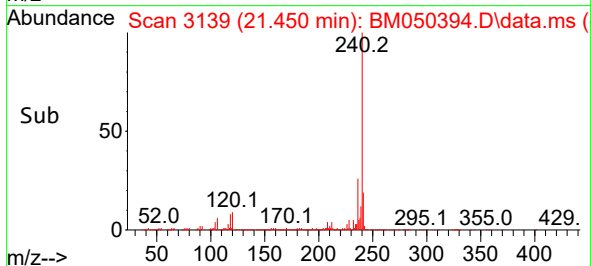
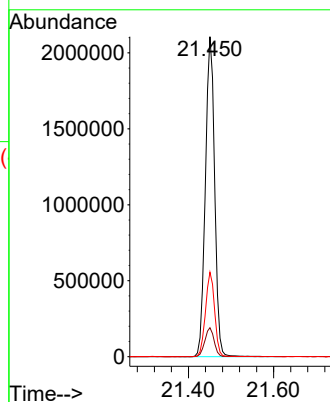
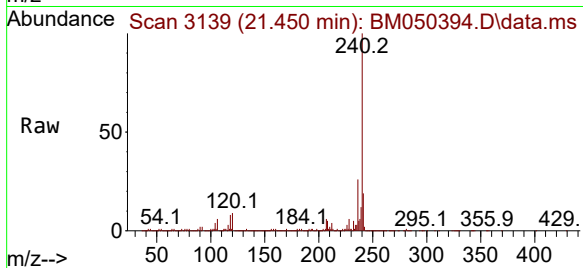
Tgt Ion:240 Resp: 3176116

Ion Ratio Lower Upper

240 100

120 9.1 6.7 10.1

236 26.4 20.7 31.1



#78

Pyrene

Concen: 5.463 ng

RT: 19.633 min Scan# 2830

Delta R.T. -0.006 min

Lab File: BM050394.D

Acq: 10 Jul 2025 17:58

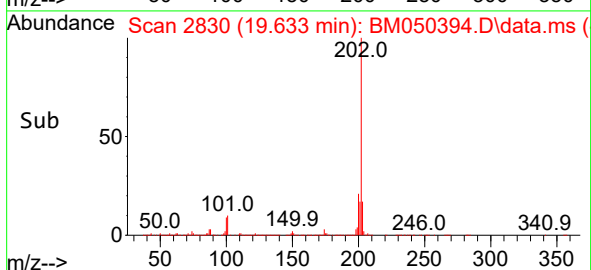
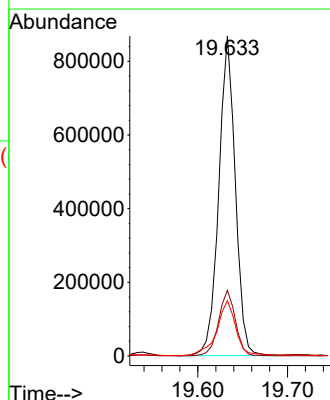
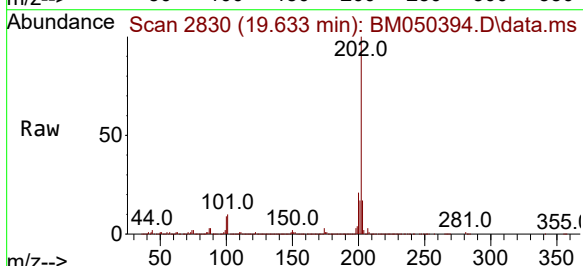
Tgt Ion:202 Resp: 1111277

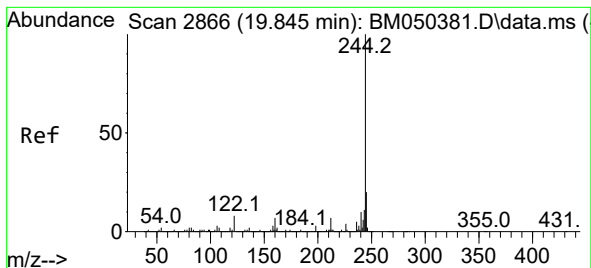
Ion Ratio Lower Upper

202 100

200 20.5 16.9 25.3

203 17.3 14.1 21.1





#79

Terphenyl-d14

Concen: 69.849 ng

RT: 19.839 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM050394.D

Acq: 10 Jul 2025 17:58

Instrument :

BNA_M

ClientSampleId :

TP-49

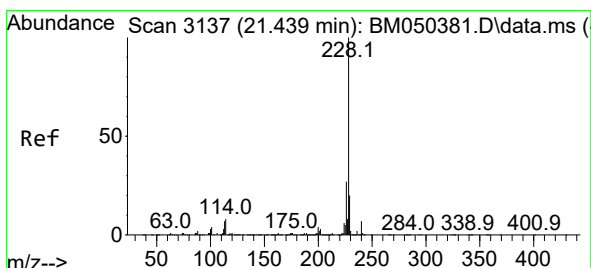
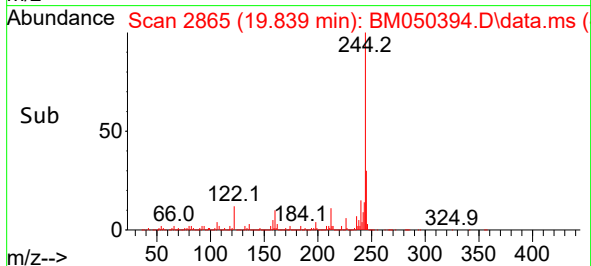
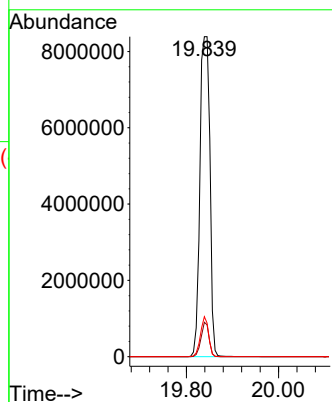
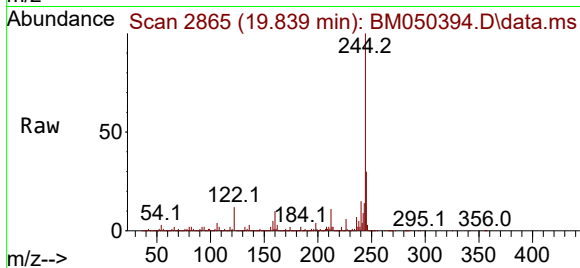
Tgt Ion:244 Resp:12608869

Ion Ratio Lower Upper

244 100

212 10.7 5.7 8.5#

122 12.5 6.2 9.2#



#81

Benzo(a)anthracene

Concen: 3.387 ng

RT: 21.433 min Scan# 3136

Delta R.T. -0.006 min

Lab File: BM050394.D

Acq: 10 Jul 2025 17:58

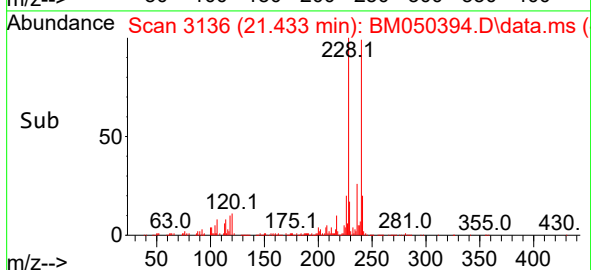
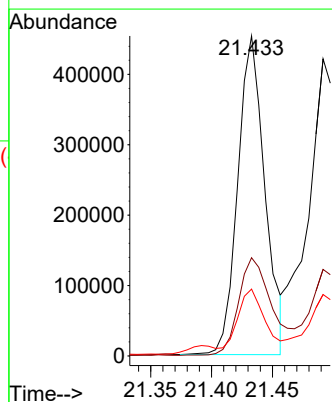
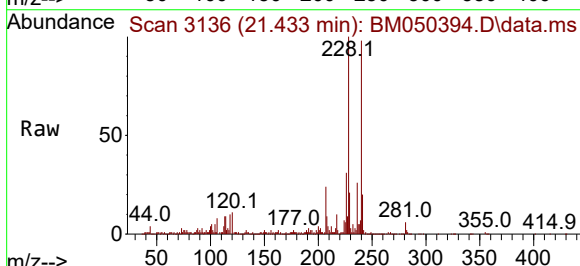
Tgt Ion:228 Resp: 700934

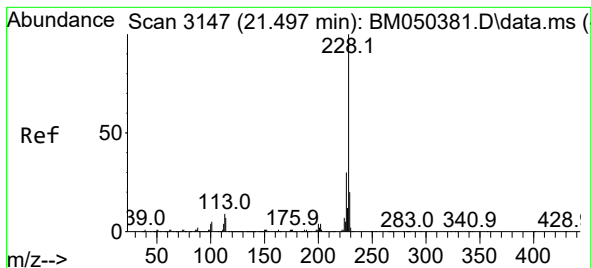
Ion Ratio Lower Upper

228 100

226 30.7 21.8 32.8

229 20.9 16.0 24.0





#83

Chrysene

Concen: 3.624 ng

RT: 21.492 min Scan# 3146

Delta R.T. -0.006 min

Lab File: BM050394.D

Acq: 10 Jul 2025 17:58

Instrument :

BNA_M

ClientSampleId :

TP-49

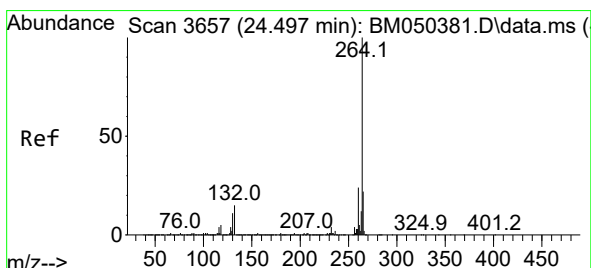
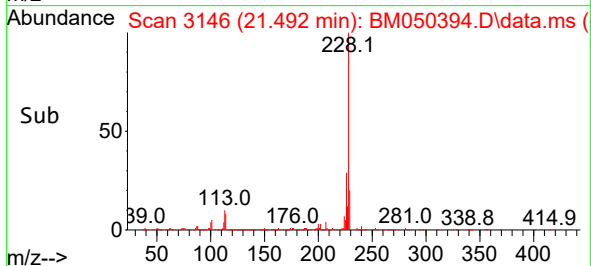
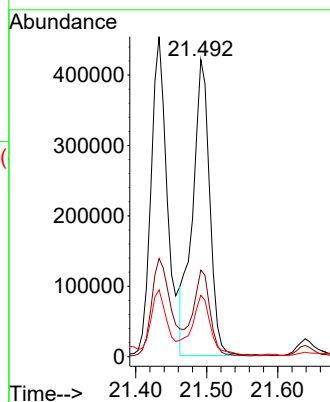
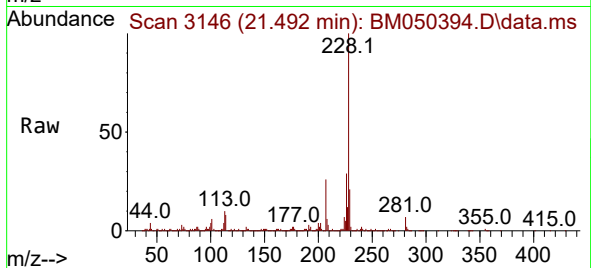
Tgt Ion:228 Resp: 707297

Ion Ratio Lower Upper

228 100

226 29.1 24.2 36.4

229 20.7 15.8 23.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.491 min Scan# 3656

Delta R.T. -0.006 min

Lab File: BM050394.D

Acq: 10 Jul 2025 17:58

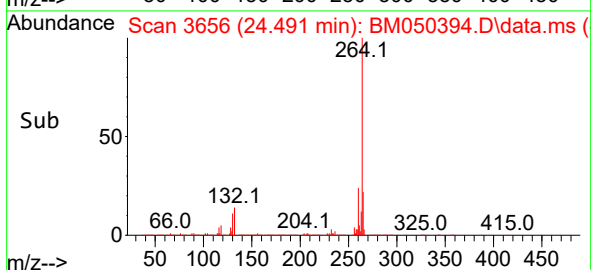
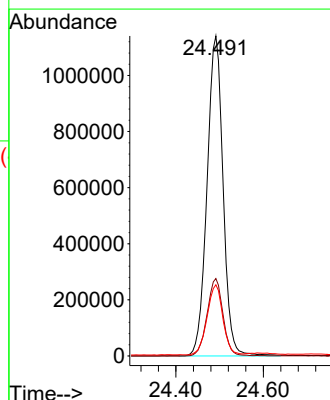
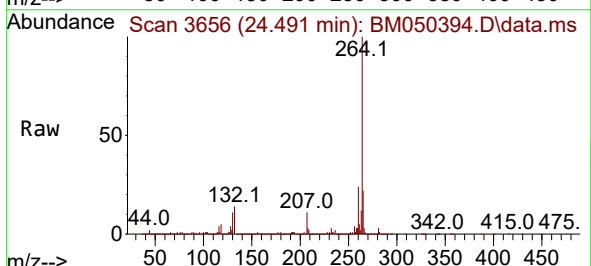
Tgt Ion:264 Resp: 2913679

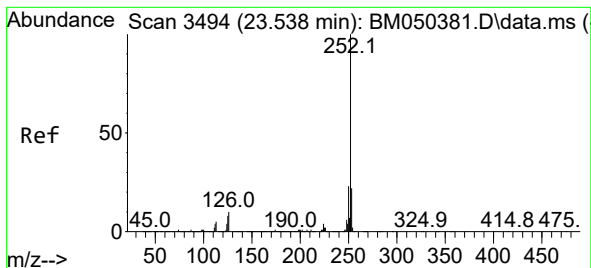
Ion Ratio Lower Upper

264 100

260 24.2 19.2 28.8

265 22.3 17.8 26.6





#88

Benzo(b)fluoranthene

Concen: 5.473 ng

RT: 23.527 min Scan# 3492

Delta R.T. -0.012 min

Lab File: BM050394.D

Acq: 10 Jul 2025 17:58

Instrument :

BNA_M

ClientSampleId :

TP-49

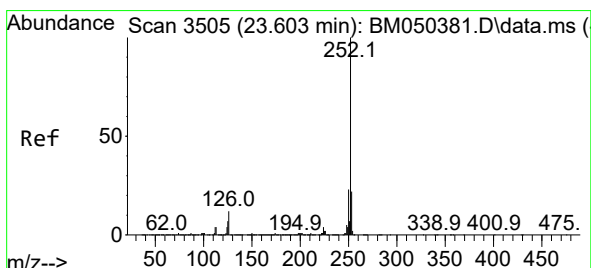
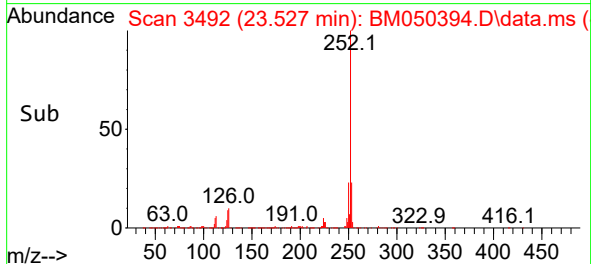
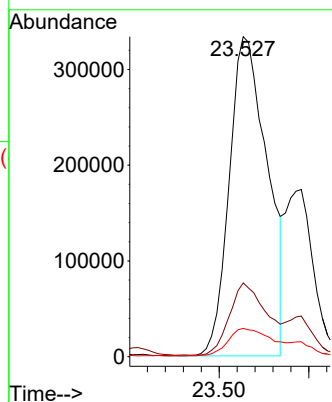
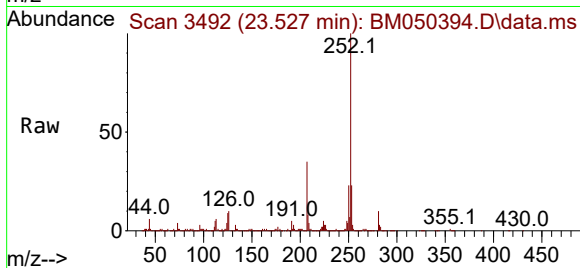
Tgt Ion:252 Resp: 980799

Ion Ratio Lower Upper

252 100

253 23.1 17.8 26.6

125 8.8 6.3 9.5



#89

Benzo(k)fluoranthene

Concen: 5.274 ng

RT: 23.527 min Scan# 3492

Delta R.T. -0.076 min

Lab File: BM050394.D

Acq: 10 Jul 2025 17:58

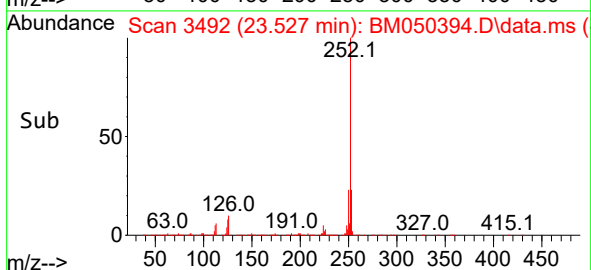
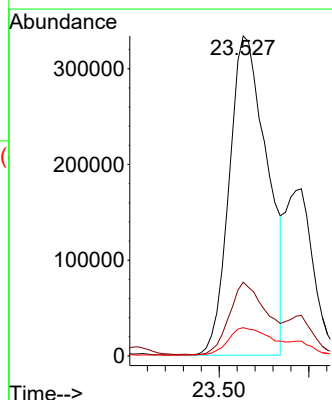
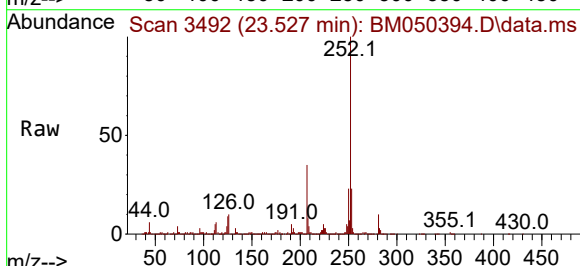
Tgt Ion:252 Resp: 980799

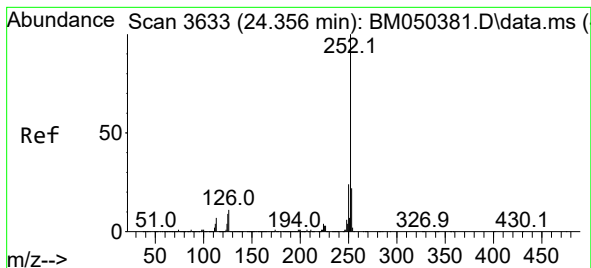
Ion Ratio Lower Upper

252 100

253 23.1 17.6 26.4

125 8.8 6.2 9.2





#90

Benzo(a)pyrene

Concen: 3.753 ng

RT: 24.344 min Scan# 3

Delta R.T. -0.012 min

Lab File: BM050394.D

Acq: 10 Jul 2025 17:58

Instrument :

BNA_M

ClientSampleId :

TP-49

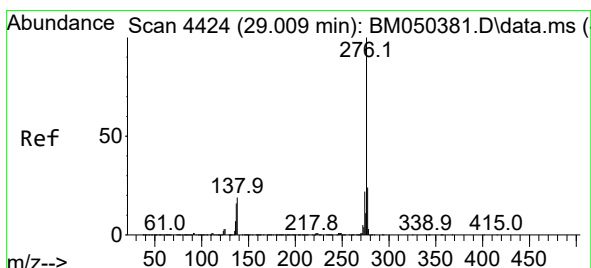
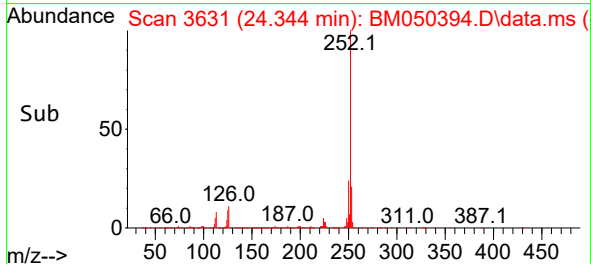
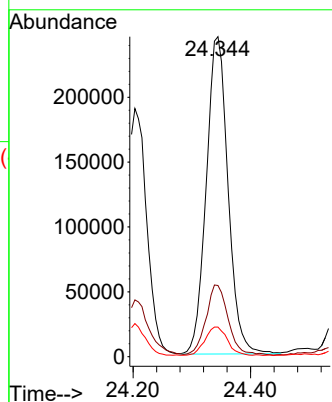
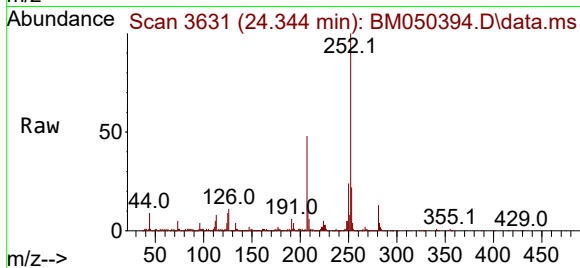
Tgt Ion:252 Resp: 629576

Ion Ratio Lower Upper

252 100

253 22.2 17.8 26.6

125 9.3 7.0 10.4



#92

Benzo(g,h,i)perylene

Concen: 2.131 ng

RT: 28.985 min Scan# 4420

Delta R.T. -0.023 min

Lab File: BM050394.D

Acq: 10 Jul 2025 17:58

Tgt Ion:276 Resp: 351305

Ion Ratio Lower Upper

276 100

277 24.4 19.1 28.7

138 19.9 14.9 22.3

