

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM082724\
 Data File : BM047366.D
 Acq On : 27 Aug 2024 16:37
 Operator : RC/JU
 Sample : P3728-01DL 10X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SU-03-08232024DL

Quant Time: Aug 27 17:26:20 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM082624.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 26 18:11:40 2024
 Response via : Initial Calibration

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

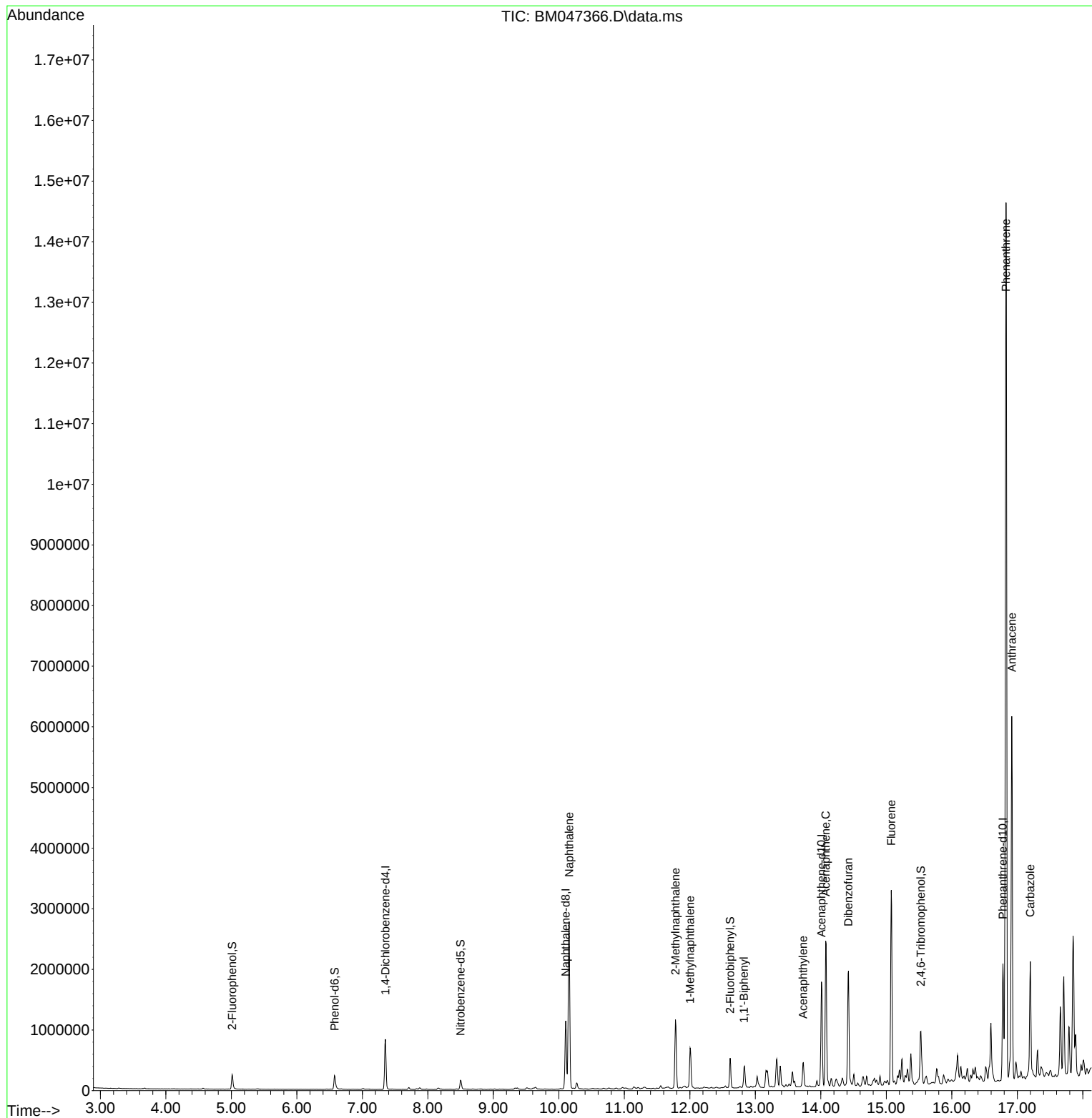
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.351	152	236843	20.000	ng	0.00
21) Naphthalene-d8	10.104	136	897265	20.000	ng	0.00
39) Acenaphthene-d10	14.010	164	599277	20.000	ng	0.00
64) Phenanthrene-d10	16.780	188	1205896	20.000	ng	0.00
76) Chrysene-d12	21.027	240	779246	20.000	ng	0.00
86) Perylene-d12	23.727	264	920063	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.010	112	116849	9.465	ng	0.00
7) Phenol-d6	6.575	99	153350	9.119	ng	0.00
23) Nitrobenzene-d5	8.498	82	93451	5.779	ng	0.00
42) 2,4,6-Tribromophenol	15.527	330	65398	9.045	ng	0.00
45) 2-Fluorobiphenyl	12.616	172	260019	6.667	ng	0.00
79) Terphenyl-d14	19.445	244	333411	7.616	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.157	128	2292125	52.303	ng	99
37) 2-Methylnaphthalene	11.781	142	556364	17.412	ng	99
38) 1-Methylnaphthalene	12.004	142	327745	10.371	ng	100
46) 1,1'-Biphenyl	12.828	154	175622	4.197	ng	99
49) Acenaphthylene	13.727	152	251153	5.270	ng	98
52) Acenaphthene	14.075	154	894182	29.555	ng	100
55) Dibenzofuran	14.422	168	1255072	25.755	ng	99
58) Fluorene	15.074	166	1456065	36.919	ng	100
71) Phenanthrene	16.827	178	9201696	157.123	ng	98
72) Anthracene	16.916	178	3680886	64.475	ng	100
73) Carbazole	17.198	167	1262296	23.041	ng	100
75) Fluoranthene	18.862	202	8148108	118.493	ng	99
78) Pyrene	19.233	202	6437954	107.720	ng	100
81) Benzo(a)anthracene	21.009	228	2675794	52.655	ng	97
83) Chrysene	21.068	228	2397879	50.163	ng	97
87) Indeno(1,2,3-cd)pyrene	26.733	276	1527228	26.516	ng	95
88) Benzo(b)fluoranthene	22.886	252	2799395	52.151	ng	98
89) Benzo(k)fluoranthene	22.939	252	988467m	19.425	ng	
90) Benzo(a)pyrene	23.603	252	2287780	49.284	ng	98
91) Dibenzo(a,h)anthracene	26.762	278	367159	7.869	ng	# 89
92) Benzo(g,h,i)perylene	27.668	276	1493641	30.792	ng	99

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

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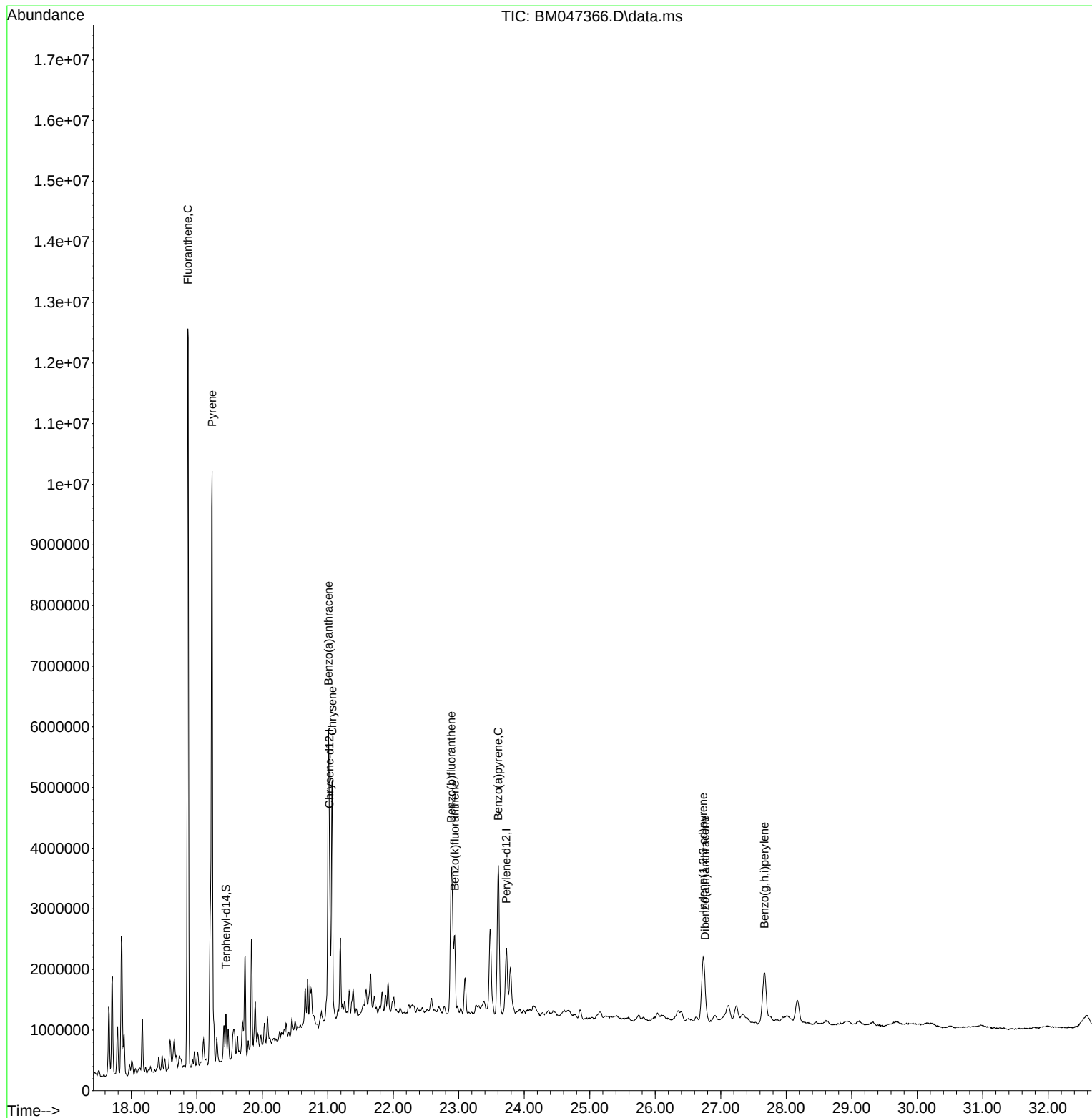
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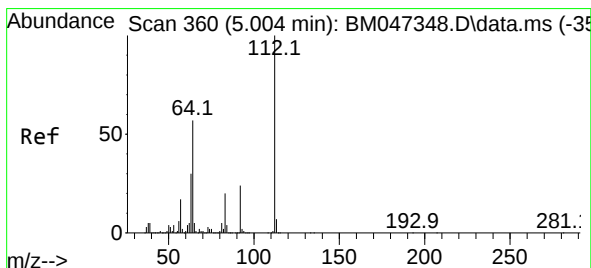
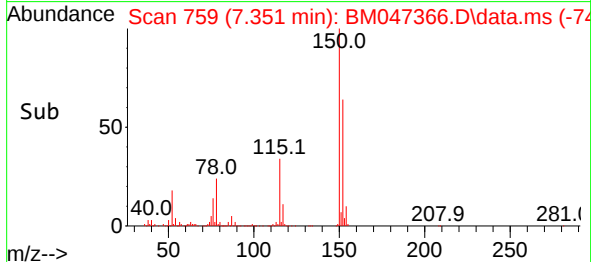
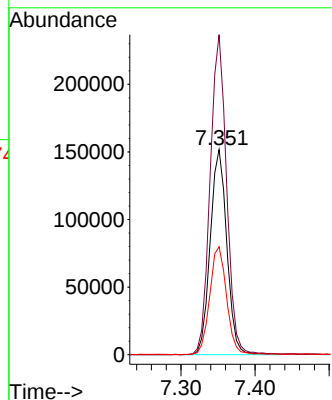
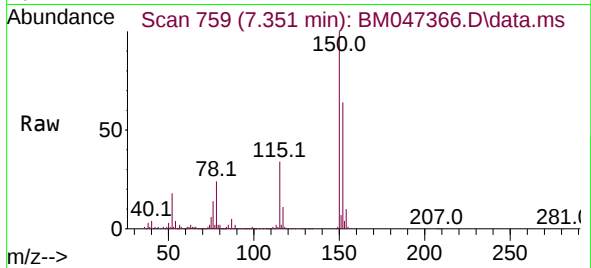




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.351 min Scan# 759
Delta R.T. 0.000 min
Lab File: BM047366.D
Acq: 27 Aug 2024 16:37

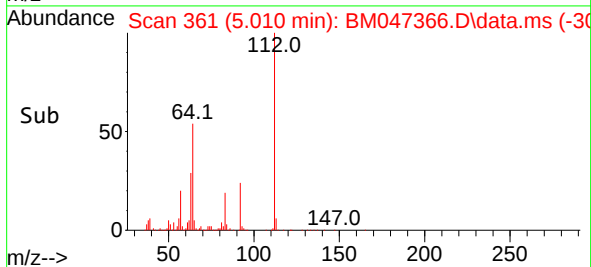
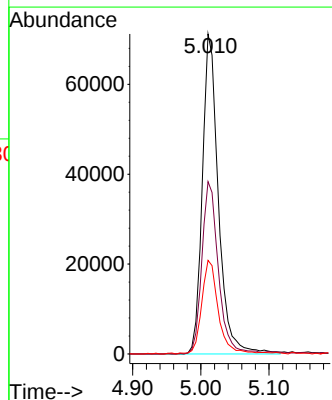
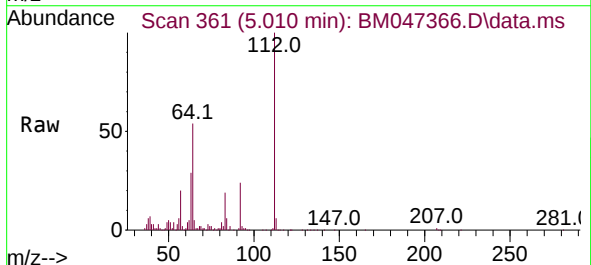
Instrument :
BNA_M
ClientSampleId :
SU-03-08232024DL

Tgt Ion:152 Resp: 236843
Ion Ratio Lower Upper
152 100
150 155.9 121.3 181.9
115 52.7 42.6 64.0



#5
2-Fluorophenol
Concen: 9.465 ng
RT: 5.010 min Scan# 361
Delta R.T. 0.006 min
Lab File: BM047366.D
Acq: 27 Aug 2024 16:37

Tgt Ion:112 Resp: 116849
Ion Ratio Lower Upper
112 100
64 53.8 45.7 68.5
63 29.3 23.8 35.8

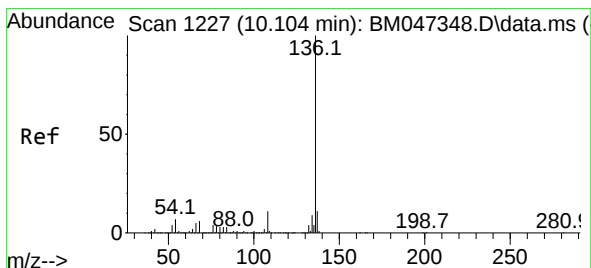
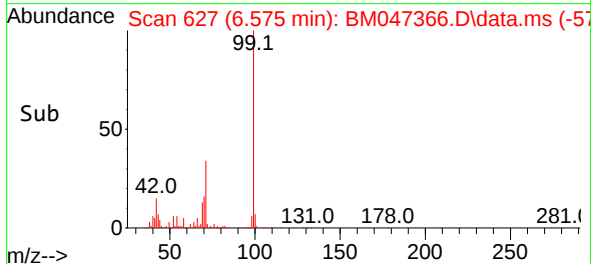
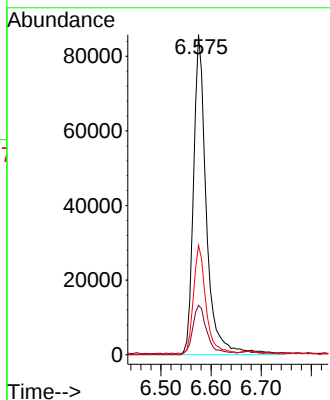
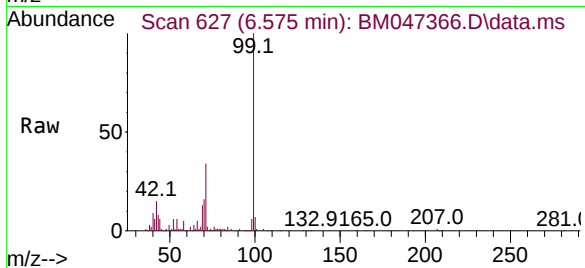




#7
Phenol-d6
Concen: 9.119 ng
RT: 6.575 min Scan# 61
Delta R.T. 0.006 min
Lab File: BM047366.D
Acq: 27 Aug 2024 16:37

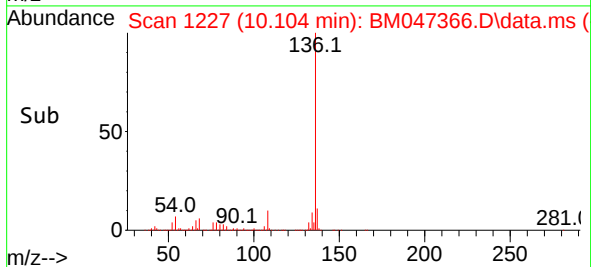
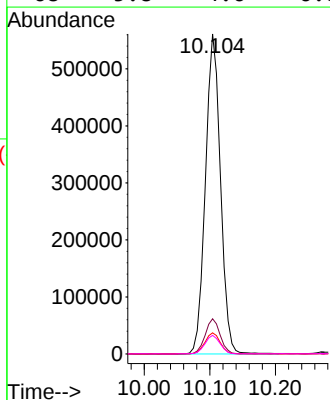
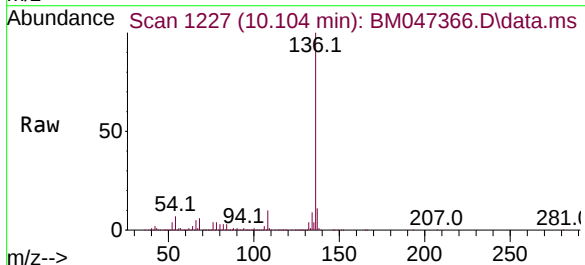
Instrument :
BNA_M
ClientSampleId :
SU-03-08232024DL

Tgt Ion: 99 Resp: 153350
Ion Ratio Lower Upper
99 100
42 15.4 13.0 19.4
71 34.3 27.5 41.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.104 min Scan# 1227
Delta R.T. 0.000 min
Lab File: BM047366.D
Acq: 27 Aug 2024 16:37

Tgt Ion: 136 Resp: 897265
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 6.6 5.2 7.8
68 5.8 4.6 6.8

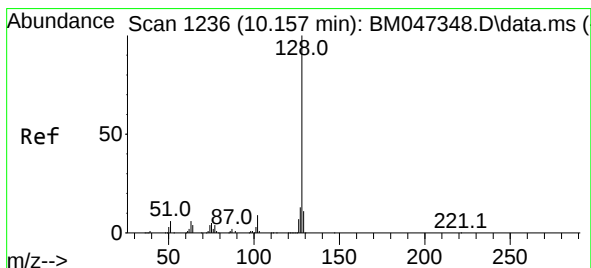
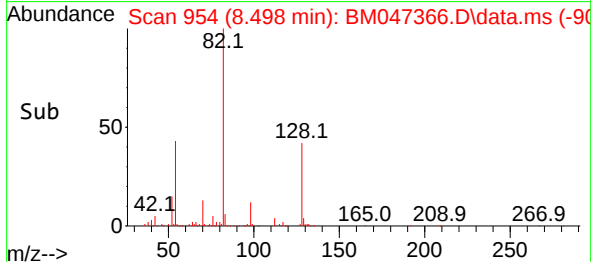
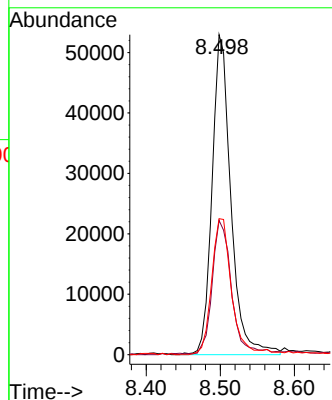
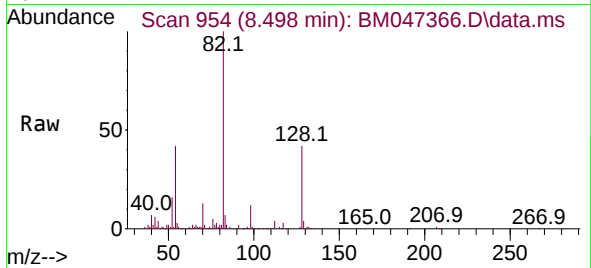




#23
Nitrobenzene-d5
Concen: 5.779 ng
RT: 8.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BM047366.D
Acq: 27 Aug 2024 16:37

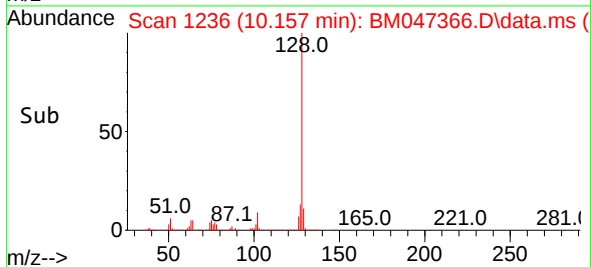
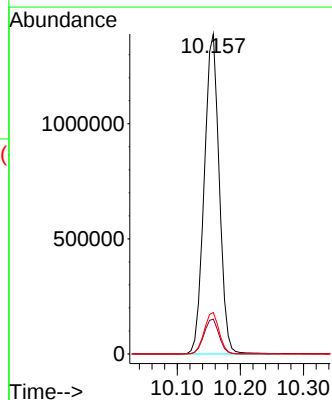
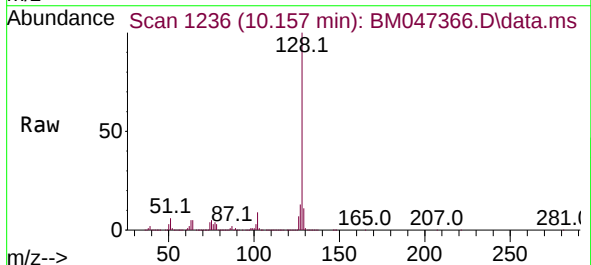
Instrument :
BNA_M
ClientSampleId :
SU-03-08232024DL

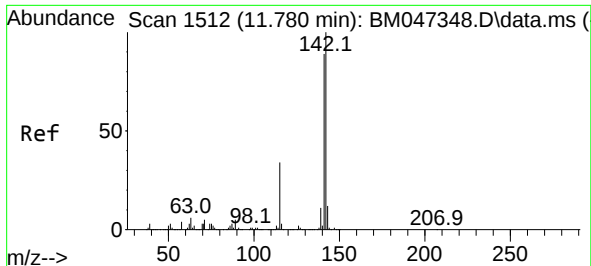
Tgt Ion: 82 Resp: 93451
Ion Ratio Lower Upper
82 100
128 41.9 34.6 51.8
54 42.5 35.5 53.3



#31
Naphthalene
Concen: 52.303 ng
RT: 10.157 min Scan# 1236
Delta R.T. 0.000 min
Lab File: BM047366.D
Acq: 27 Aug 2024 16:37

Tgt Ion: 128 Resp: 2292125
Ion Ratio Lower Upper
128 100
129 10.9 9.0 13.6
127 13.0 10.4 15.6

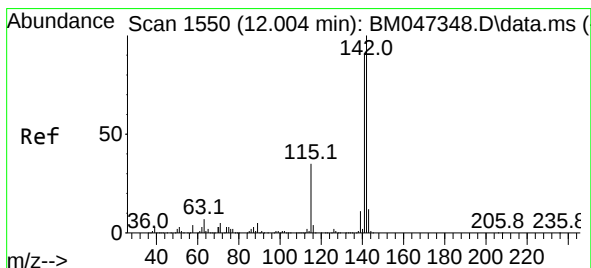
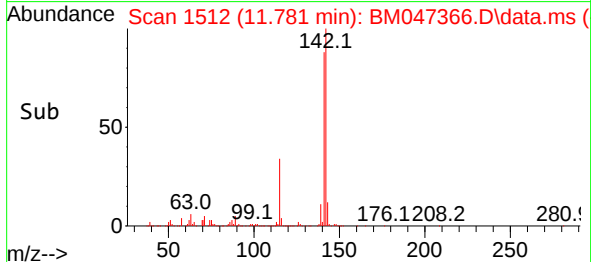
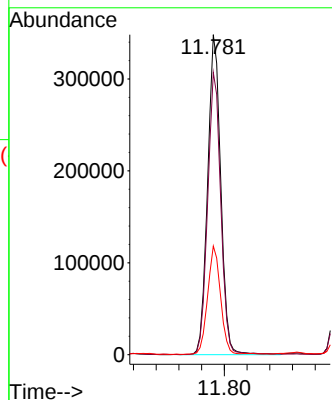
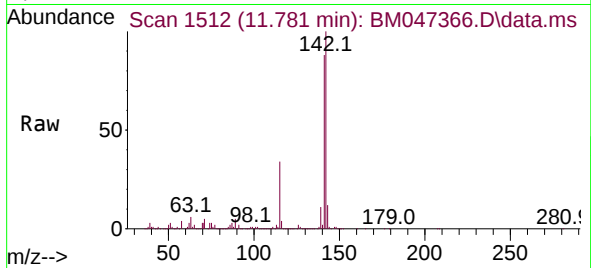




#37
2-Methylnaphthalene
Concen: 17.412 ng
RT: 11.781 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM047366.D
Acq: 27 Aug 2024 16:37

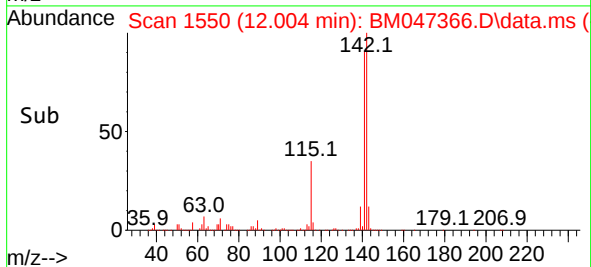
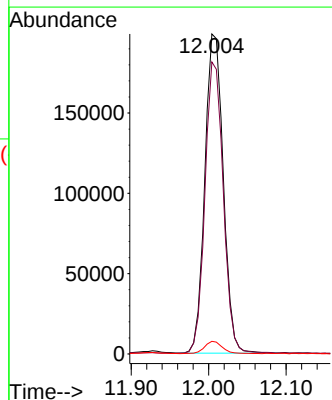
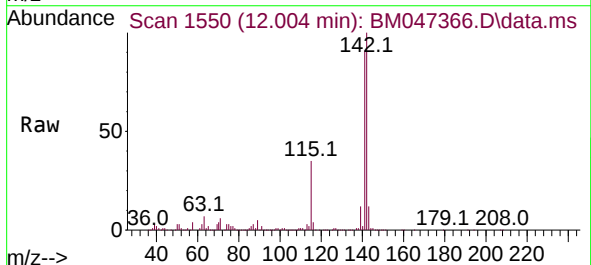
Instrument :
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ClientSampleId :
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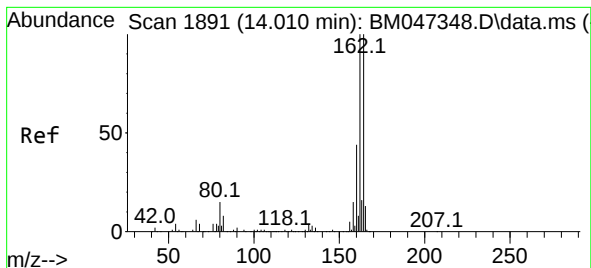
Tgt Ion:142 Resp: 556364
Ion Ratio Lower Upper
142 100
141 88.1 70.8 106.2
115 33.9 27.5 41.3



#38
1-Methylnaphthalene
Concen: 10.371 ng
RT: 12.004 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BM047366.D
Acq: 27 Aug 2024 16:37

Tgt Ion:142 Resp: 327745
Ion Ratio Lower Upper
142 100
141 91.2 72.9 109.3
116 4.0 3.0 4.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.010 min Scan# 11

Delta R.T. -0.000 min

Lab File: BM047366.D

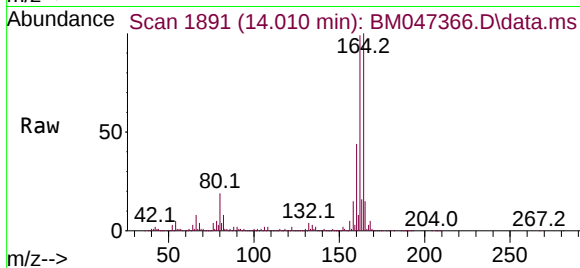
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BNA_M

ClientSampleId :

SU-03-08232024DL



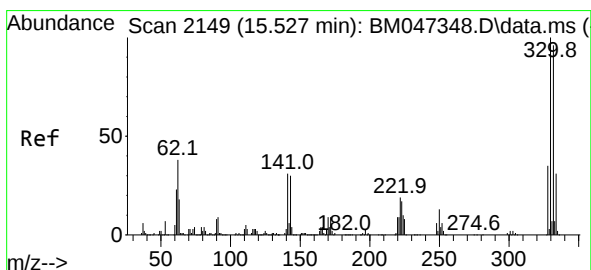
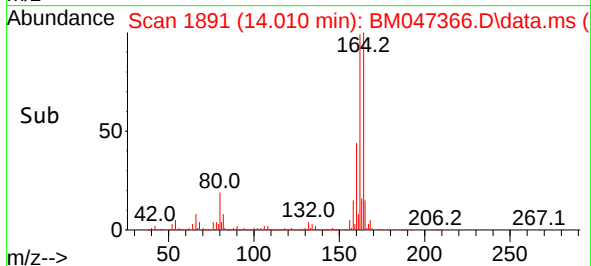
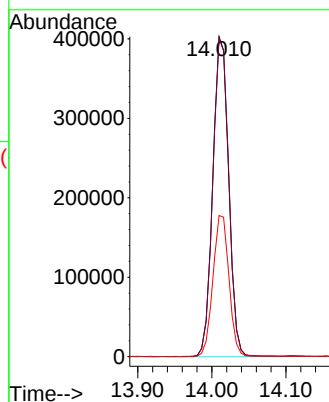
Tgt Ion:164 Resp: 599277

Ion Ratio Lower Upper

164 100

162 99.4 79.7 119.5

160 44.1 34.9 52.3



#42

2,4,6-Tribromophenol

Concen: 9.045 ng

RT: 15.527 min Scan# 2149

Delta R.T. 0.000 min

Lab File: BM047366.D

Acq: 27 Aug 2024 16:37

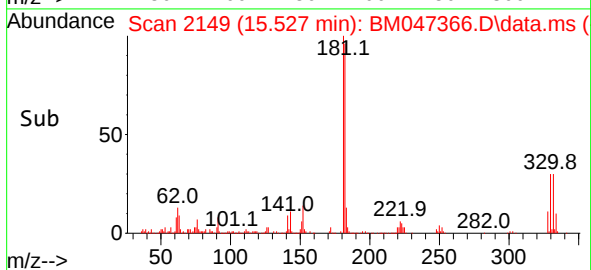
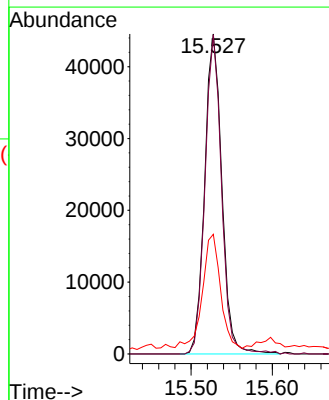
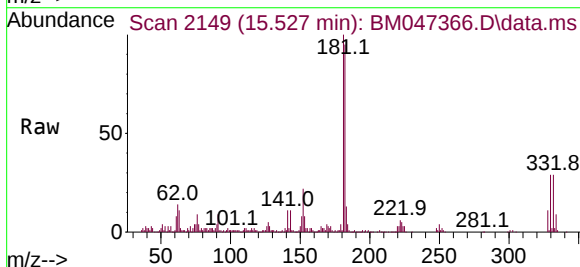
Tgt Ion:330 Resp: 65398

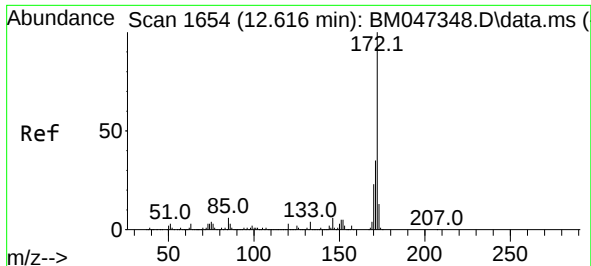
Ion Ratio Lower Upper

330 100

332 95.4 77.2 115.8

141 37.4 27.6 41.4

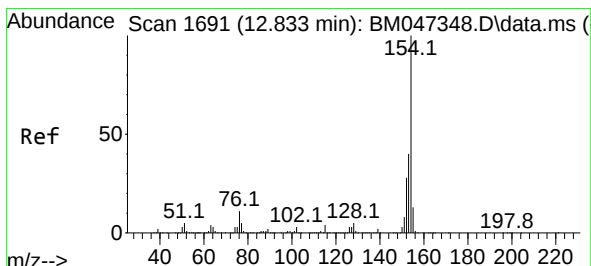
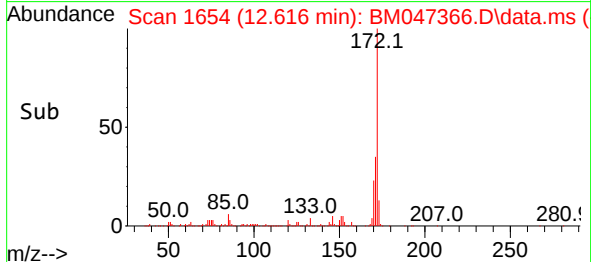
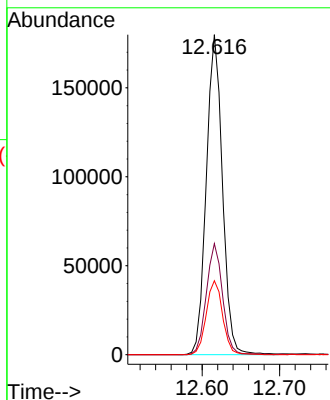
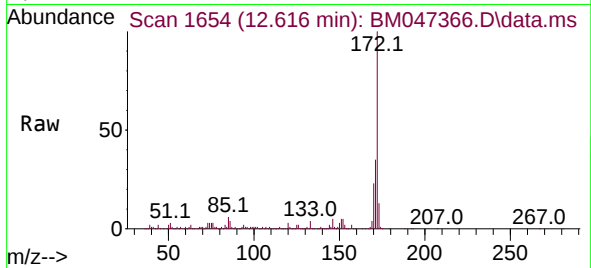




#45
2-Fluorobiphenyl
Concen: 6.667 ng
RT: 12.616 min Scan# 1654
Delta R.T. 0.000 min
Lab File: BM047366.D
Acq: 27 Aug 2024 16:37

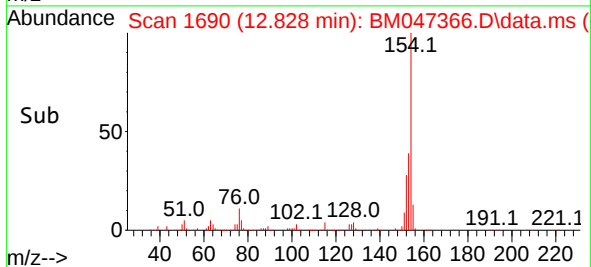
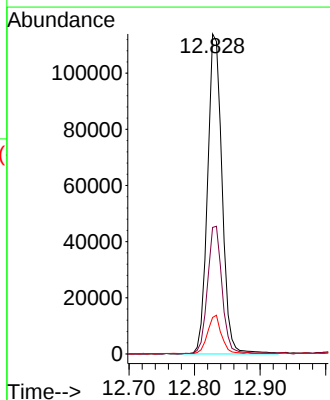
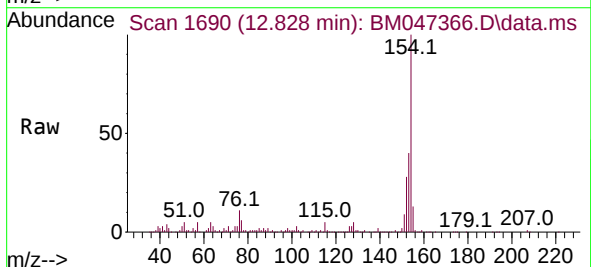
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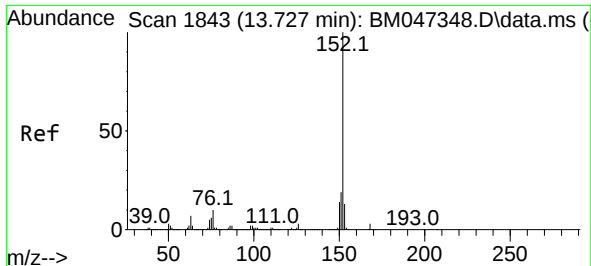
Tgt Ion:	172	Resp:	260019
Ion	Ratio	Lower	Upper
172	100		
171	34.7	27.8	41.6
170	23.1	18.5	27.7



#46
1,1'-Biphenyl
Concen: 4.197 ng
RT: 12.828 min Scan# 1690
Delta R.T. -0.006 min
Lab File: BM047366.D
Acq: 27 Aug 2024 16:37

Tgt Ion:	154	Resp:	175622
Ion	Ratio	Lower	Upper
154	100		
153	39.6	20.1	60.1
76	11.4	0.0	31.2

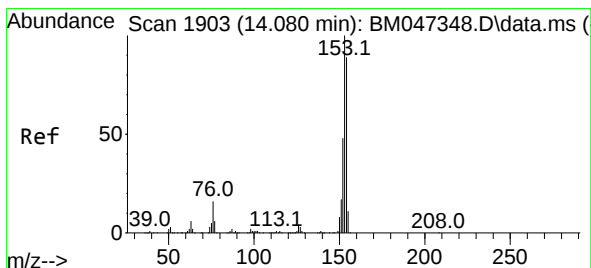
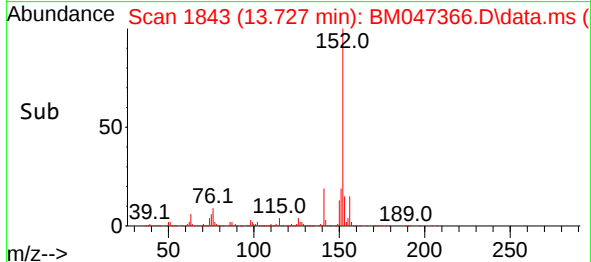
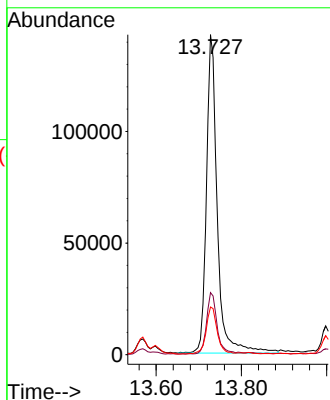
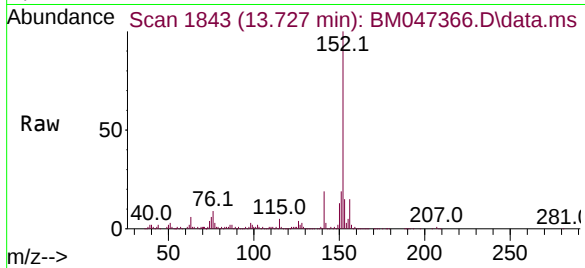




#49
Acenaphthylene
Concen: 5.270 ng
RT: 13.727 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM047366.D
Acq: 27 Aug 2024 16:37

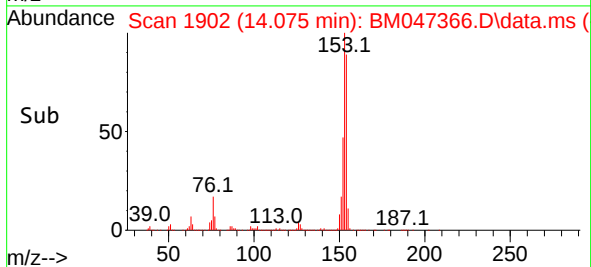
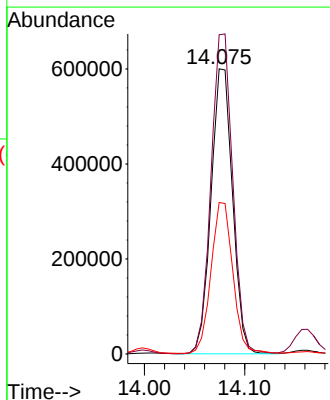
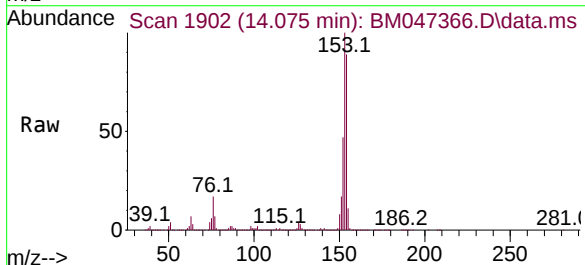
Instrument :
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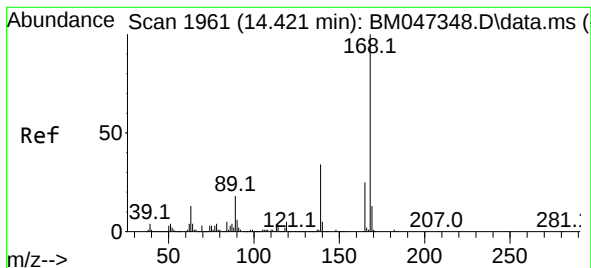
Tgt Ion:152 Resp: 251153
Ion Ratio Lower Upper
152 100
151 19.4 15.4 23.0
153 14.9 10.6 15.8



#52
Acenaphthene
Concen: 29.555 ng
RT: 14.075 min Scan# 1902
Delta R.T. -0.006 min
Lab File: BM047366.D
Acq: 27 Aug 2024 16:37

Tgt Ion:154 Resp: 894182
Ion Ratio Lower Upper
154 100
153 111.9 89.5 134.3
152 53.1 43.0 64.4





#55

Dibenzenofuran

Concen: 25.755 ng

RT: 14.422 min Scan# 1961

Delta R.T. 0.000 min

Lab File: BM047366.D

Acq: 27 Aug 2024 16:37

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024DL

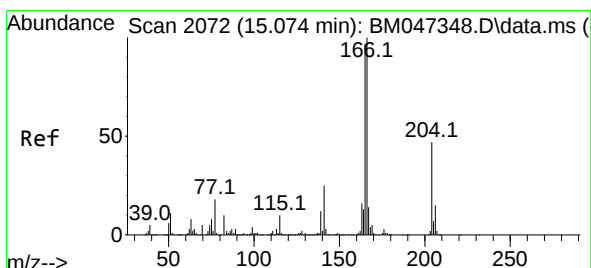
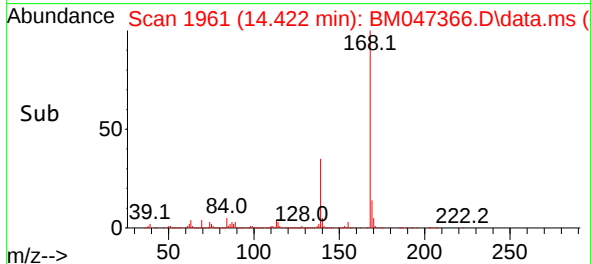
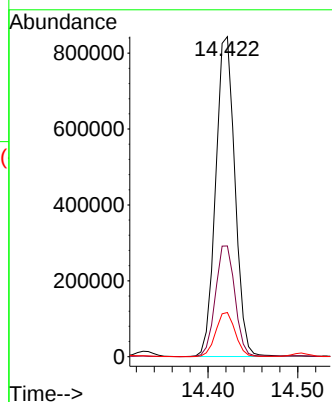
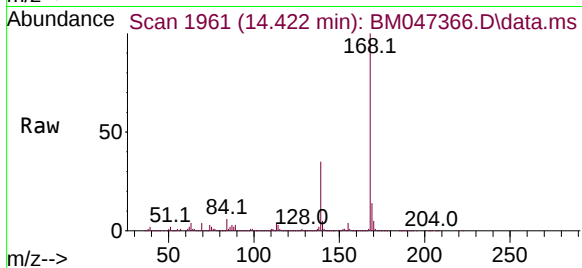
Tgt Ion:168 Resp: 1255072

Ion Ratio Lower Upper

168 100

139 34.6 27.5 41.3

169 13.8 10.5 15.7



#58

Fluorene

Concen: 36.919 ng

RT: 15.074 min Scan# 2072

Delta R.T. 0.000 min

Lab File: BM047366.D

Acq: 27 Aug 2024 16:37

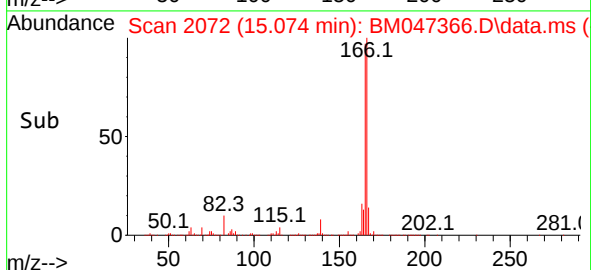
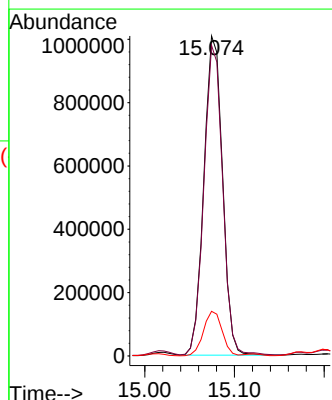
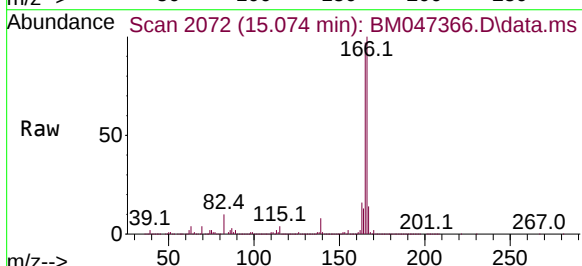
Tgt Ion:166 Resp: 1456065

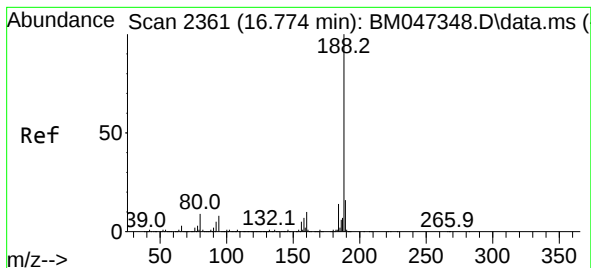
Ion Ratio Lower Upper

166 100

165 97.1 77.8 116.6

167 14.0 11.1 16.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.780 min Scan# 21

Delta R.T. 0.006 min

Lab File: BM047366.D

Acq: 27 Aug 2024 16:37

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024DL

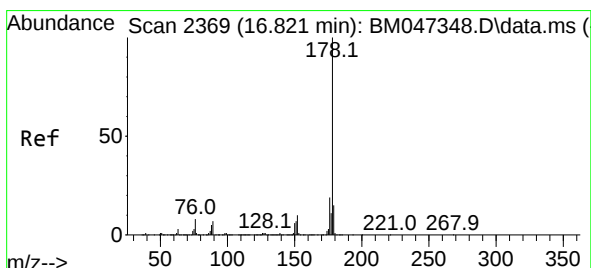
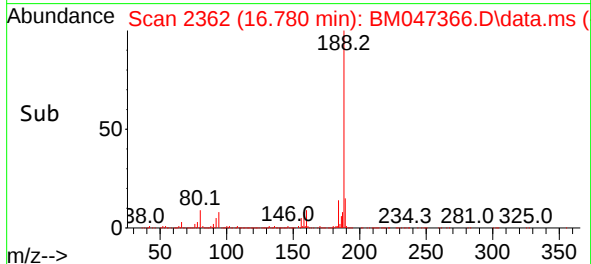
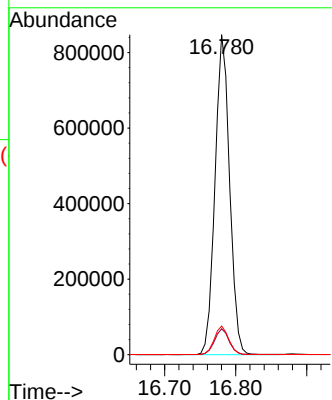
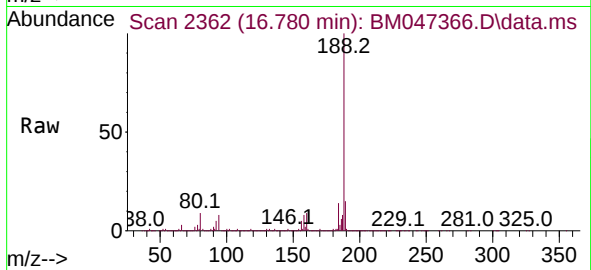
Tgt Ion:188 Resp: 1205896

Ion Ratio Lower Upper

188 100

94 8.1 6.4 9.6

80 9.0 7.4 11.2



#71

Phenanthrene

Concen: 157.123 ng

RT: 16.827 min Scan# 2370

Delta R.T. 0.006 min

Lab File: BM047366.D

Acq: 27 Aug 2024 16:37

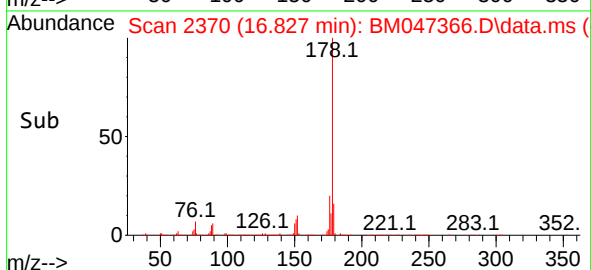
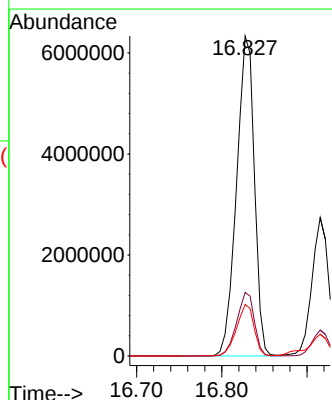
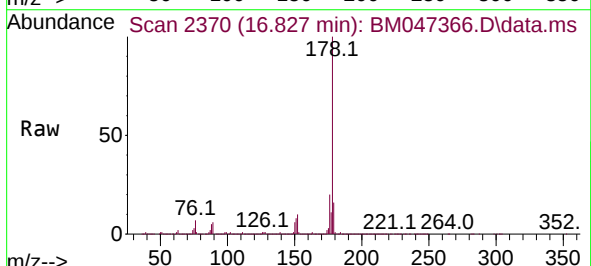
Tgt Ion:178 Resp: 9201696

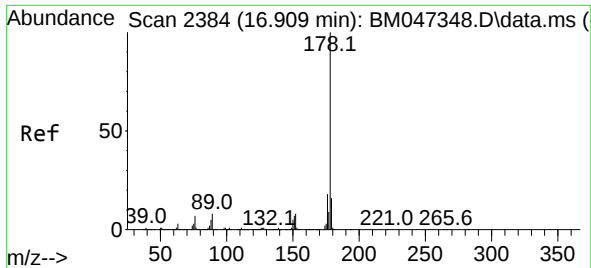
Ion Ratio Lower Upper

178 100

176 19.8 15.2 22.8

179 16.1 12.2 18.4

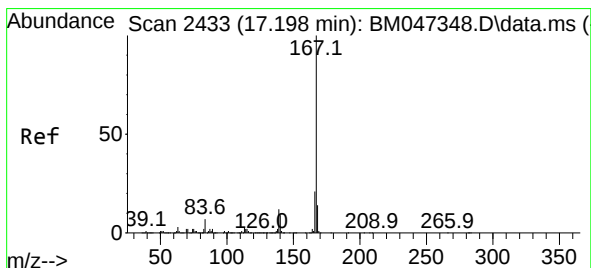
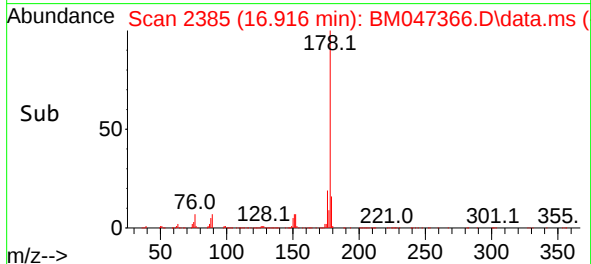
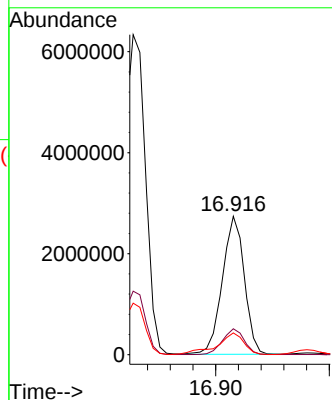
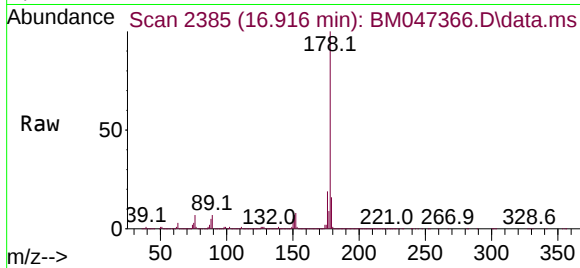




#72
 Anthracene
 Concen: 64.475 ng
 RT: 16.916 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: BM047366.D
 Acq: 27 Aug 2024 16:37

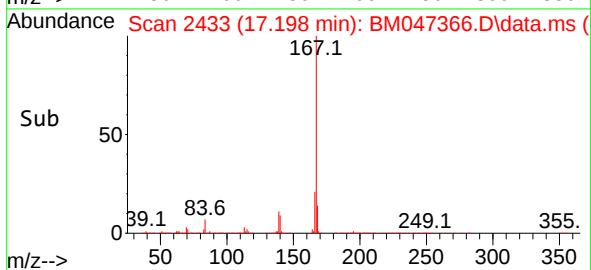
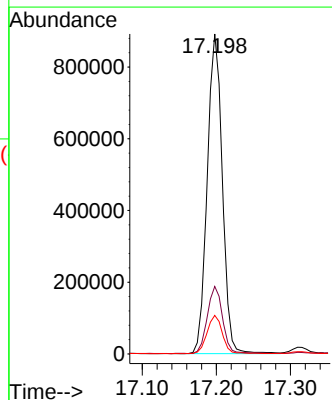
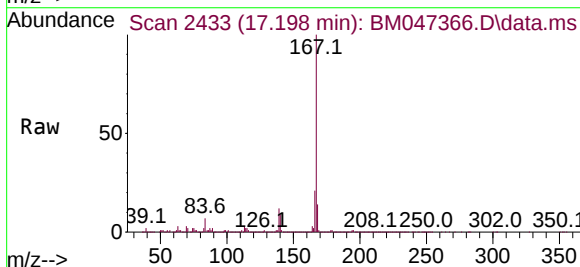
Instrument :
 BNA_M
 ClientSampleId :
 SU-03-08232024DL

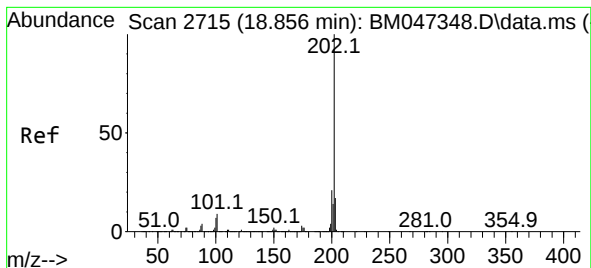
Tgt Ion:178 Resp: 3680886
 Ion Ratio Lower Upper
 178 100
 176 18.8 14.7 22.1
 179 15.7 12.6 18.8



#73
 Carbazole
 Concen: 23.041 ng
 RT: 17.198 min Scan# 2433
 Delta R.T. 0.000 min
 Lab File: BM047366.D
 Acq: 27 Aug 2024 16:37

Tgt Ion:167 Resp: 1262296
 Ion Ratio Lower Upper
 167 100
 166 21.1 16.9 25.3
 139 12.0 9.5 14.3





#75

Fluoranthene

Concen: 118.493 ng

RT: 18.862 min Scan# 21

Delta R.T. 0.006 min

Lab File: BM047366.D

Acq: 27 Aug 2024 16:37

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024DL

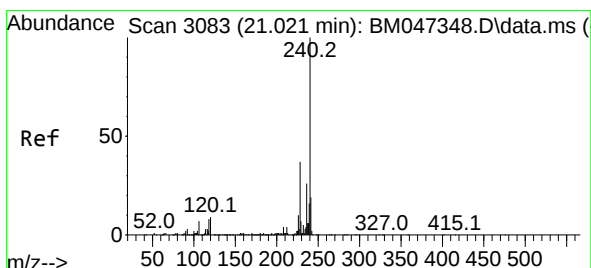
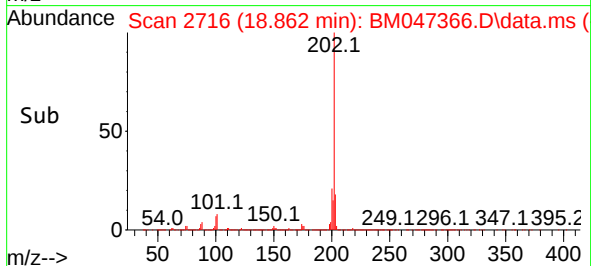
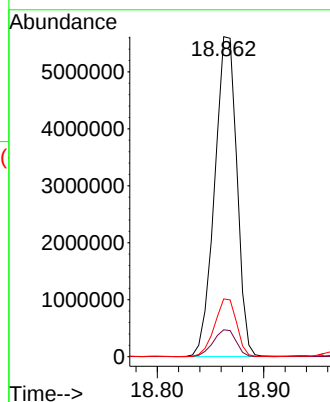
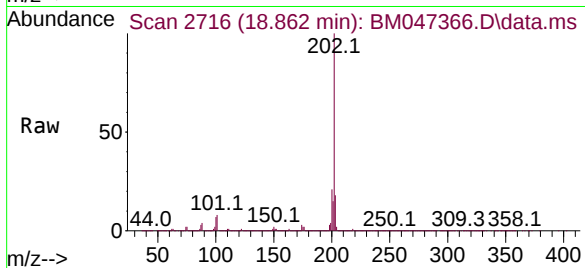
Tgt Ion:202 Resp: 8148108

Ion Ratio Lower Upper

202 100

101 8.4 0.0 29.0

203 18.1 0.0 37.5



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.027 min Scan# 3084

Delta R.T. 0.006 min

Lab File: BM047366.D

Acq: 27 Aug 2024 16:37

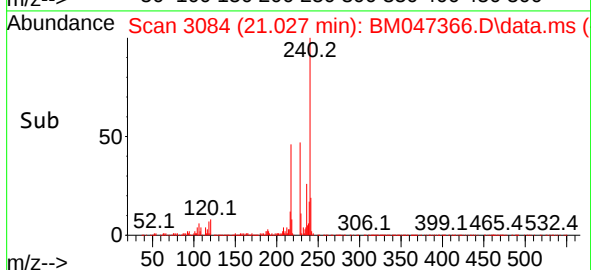
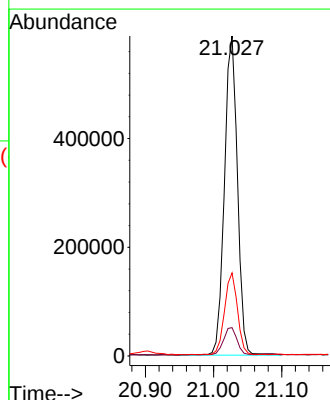
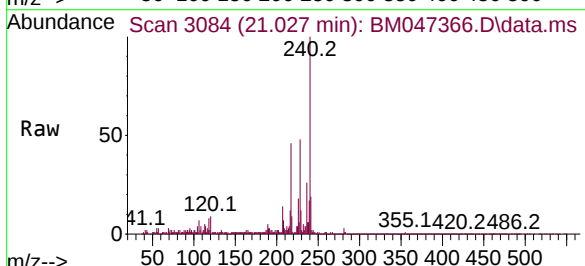
Tgt Ion:240 Resp: 779246

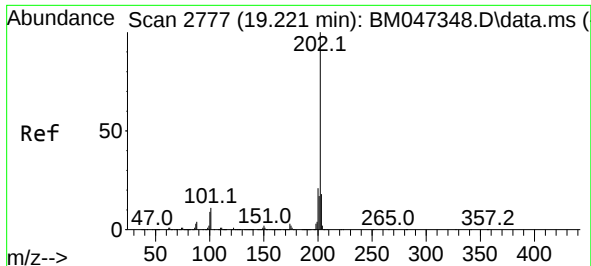
Ion Ratio Lower Upper

240 100

120 8.9 7.4 11.0

236 26.0 20.8 31.2

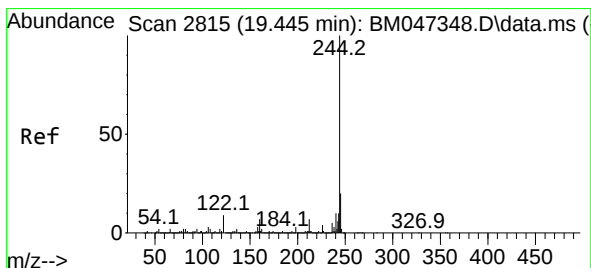
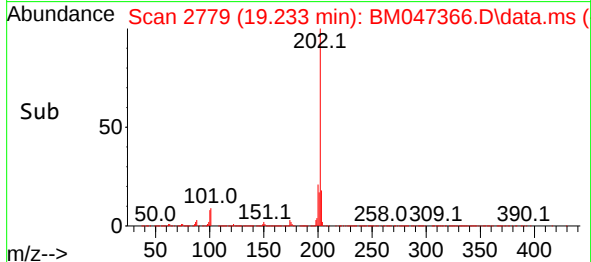
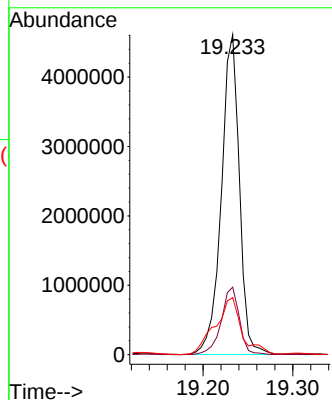
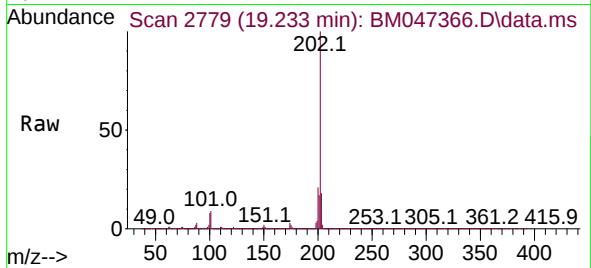




#78
Pyrene
Concen: 107.720 ng
RT: 19.233 min Scan# 21
Delta R.T. 0.012 min
Lab File: BM047366.D
Acq: 27 Aug 2024 16:37

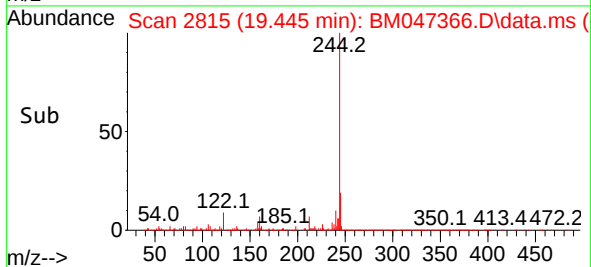
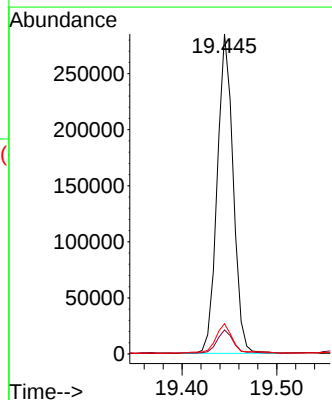
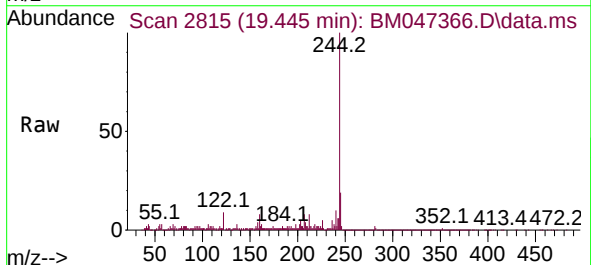
Instrument :
BNA_M
ClientSampleId :
SU-03-08232024DL

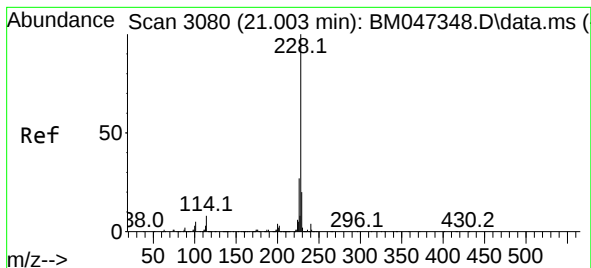
Tgt Ion:202 Resp: 6437954
Ion Ratio Lower Upper
202 100
200 21.1 16.7 25.1
203 17.9 14.2 21.4



#79
Terphenyl-d14
Concen: 7.616 ng
RT: 19.445 min Scan# 2815
Delta R.T. 0.000 min
Lab File: BM047366.D
Acq: 27 Aug 2024 16:37

Tgt Ion:244 Resp: 333411
Ion Ratio Lower Upper
244 100
212 7.5 6.0 9.0
122 9.4 7.0 10.4





#81

Benzo(a)anthracene

Concen: 52.655 ng

RT: 21.009 min Scan# 3081

Delta R.T. 0.006 min

Lab File: BM047366.D

Acq: 27 Aug 2024 16:37

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024DL

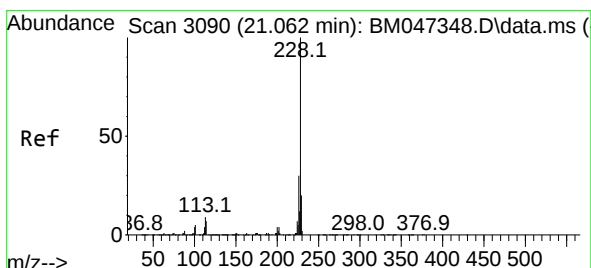
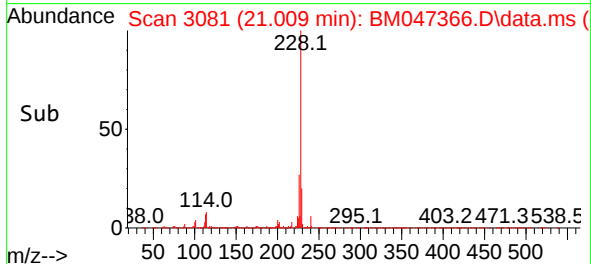
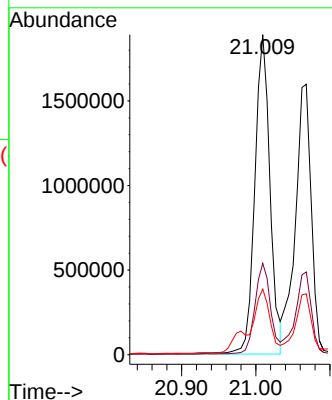
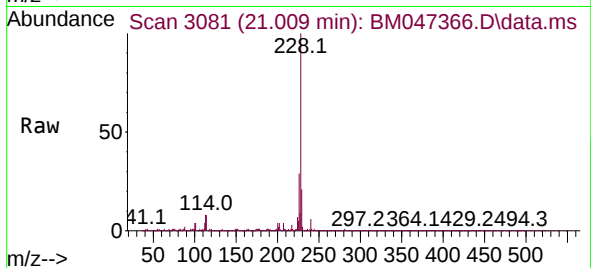
Tgt Ion:228 Resp: 2675794

Ion Ratio Lower Upper

228 100

226 28.5 21.4 32.0

229 20.5 15.8 23.8



#83

Chrysene

Concen: 50.163 ng

RT: 21.068 min Scan# 3091

Delta R.T. 0.006 min

Lab File: BM047366.D

Acq: 27 Aug 2024 16:37

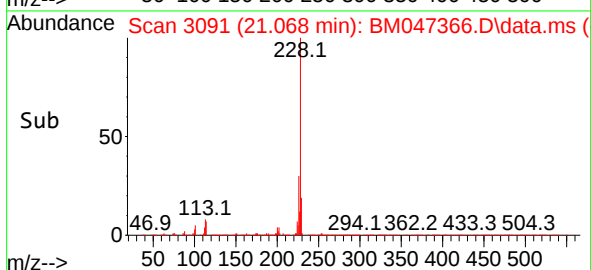
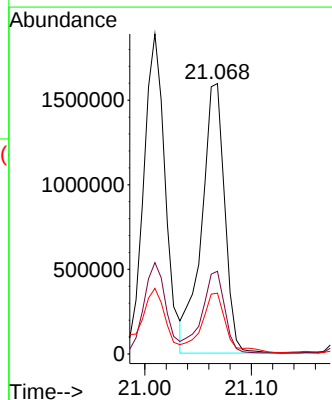
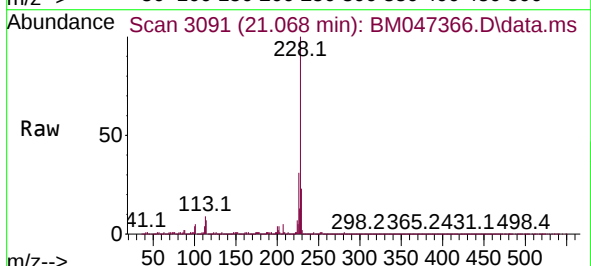
Tgt Ion:228 Resp: 2397879

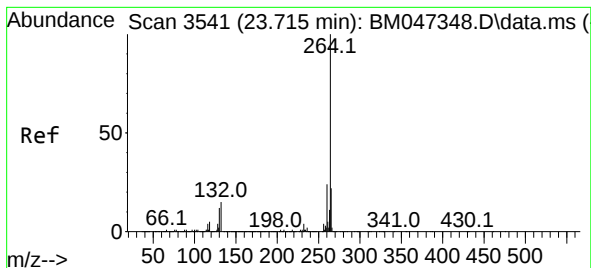
Ion Ratio Lower Upper

228 100

226 30.6 24.0 36.0

229 22.5 15.9 23.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.727 min Scan# 3

Delta R.T. 0.012 min

Lab File: BM047366.D

Acq: 27 Aug 2024 16:37

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024DL

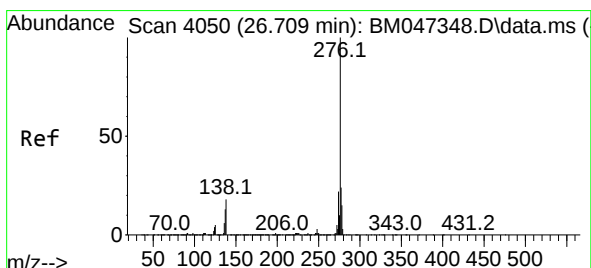
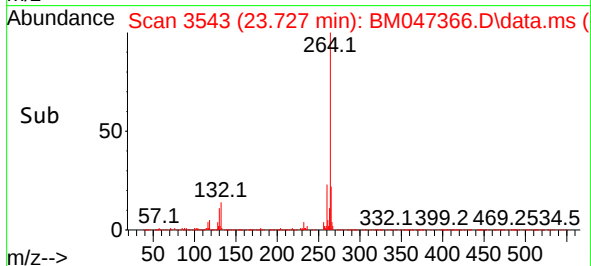
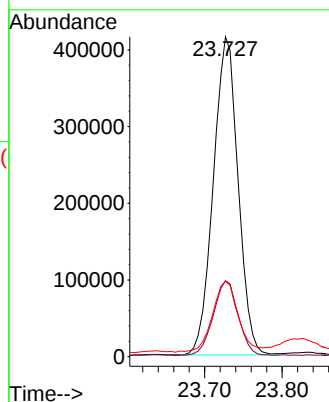
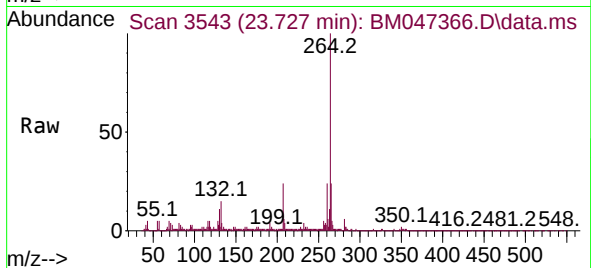
Tgt Ion:264 Resp: 920063

Ion Ratio Lower Upper

264 100

260 23.7 19.0 28.4

265 23.6 17.8 26.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 26.516 ng

RT: 26.733 min Scan# 4054

Delta R.T. 0.024 min

Lab File: BM047366.D

Acq: 27 Aug 2024 16:37

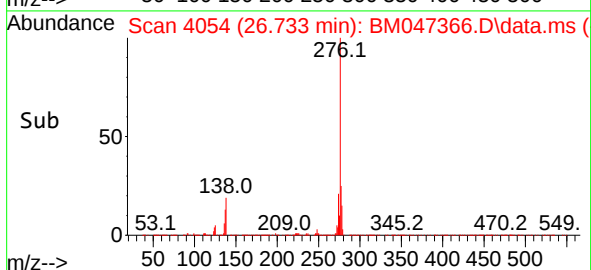
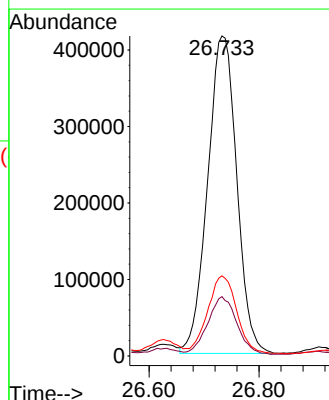
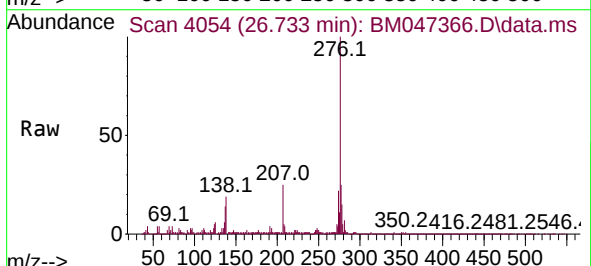
Tgt Ion:276 Resp: 1527228

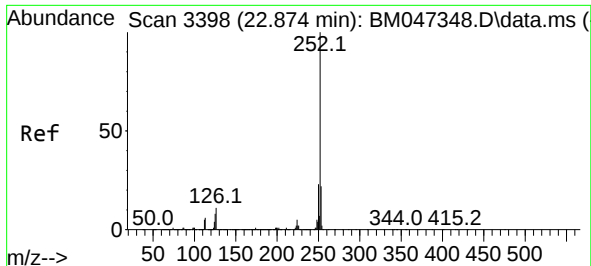
Ion Ratio Lower Upper

276 100

138 18.1 17.7 26.5

277 24.5 20.0 30.0

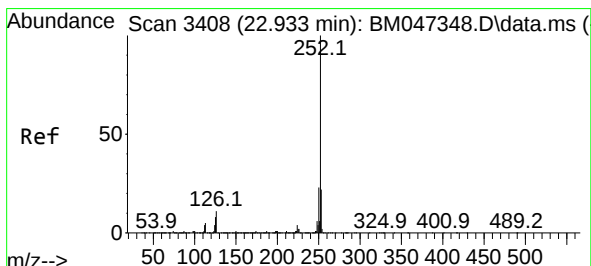
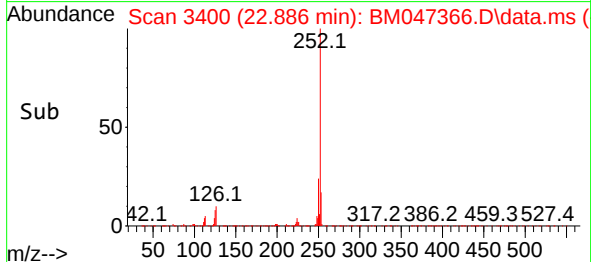
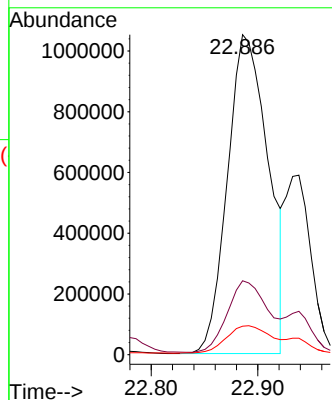
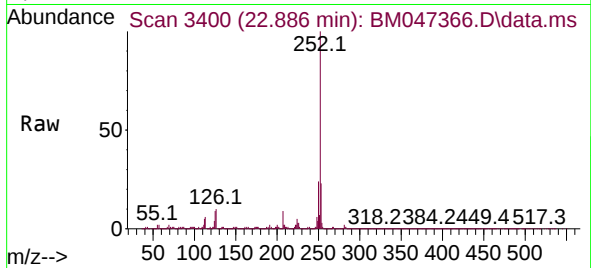




#88
Benzo(b)fluoranthene
Concen: 52.151 ng
RT: 22.886 min Scan# 3400
Delta R.T. 0.012 min
Lab File: BM047366.D
Acq: 27 Aug 2024 16:37

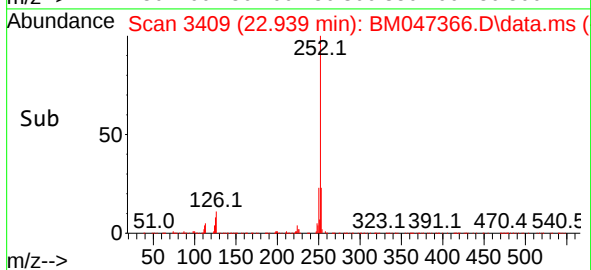
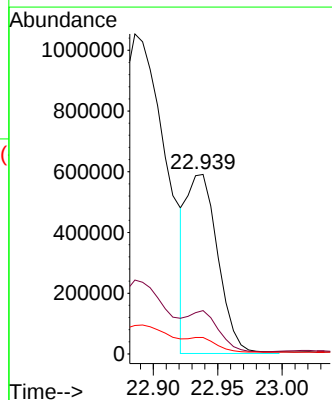
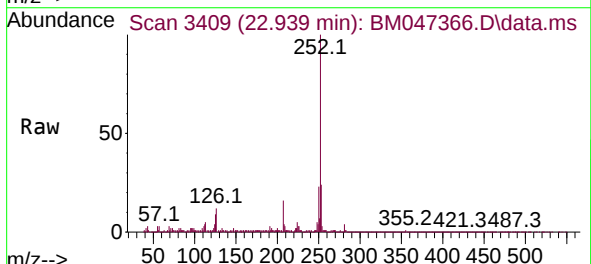
Instrument :
BNA_M
ClientSampleId :
SU-03-08232024DL

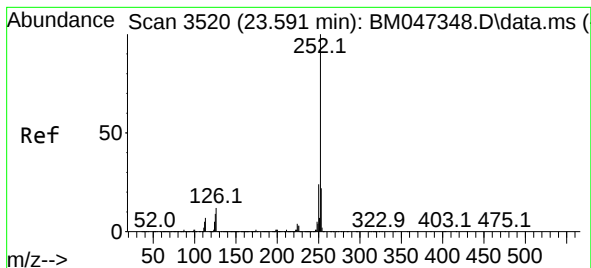
Tgt Ion:252 Resp: 2799395
Ion Ratio Lower Upper
252 100
253 23.1 17.8 26.6
125 8.9 6.6 10.0



#89
Benzo(k)fluoranthene
Concen: 19.425 ng m
RT: 22.939 min Scan# 3409
Delta R.T. 0.006 min
Lab File: BM047366.D
Acq: 27 Aug 2024 16:37

Tgt Ion:252 Resp: 988467
Ion Ratio Lower Upper
252 100
253 24.2 17.5 26.3
125 9.1 6.6 9.8





#90

Benzo(a)pyrene

Concen: 49.284 ng

RT: 23.603 min Scan# 3

Delta R.T. 0.012 min

Lab File: BM047366.D

Acq: 27 Aug 2024 16:37

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024DL

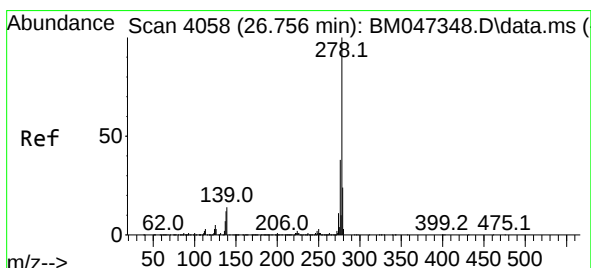
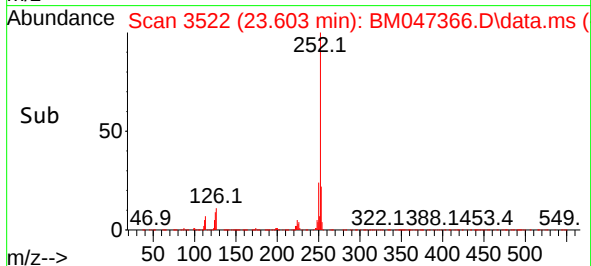
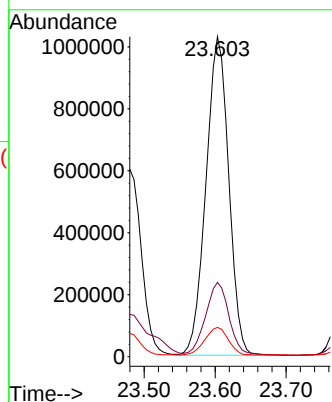
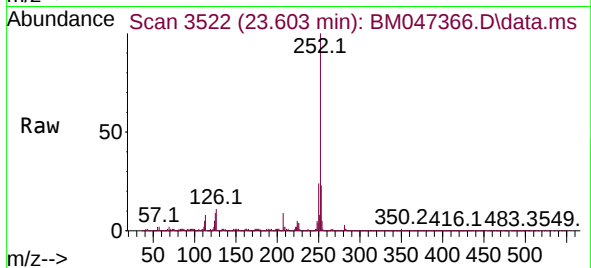
Tgt Ion:252 Resp: 2287780

Ion Ratio Lower Upper

252 100

253 23.2 17.7 26.5

125 9.2 7.4 11.2



#91

Dibenzo(a,h)anthracene

Concen: 7.869 ng

RT: 26.762 min Scan# 4059

Delta R.T. 0.006 min

Lab File: BM047366.D

Acq: 27 Aug 2024 16:37

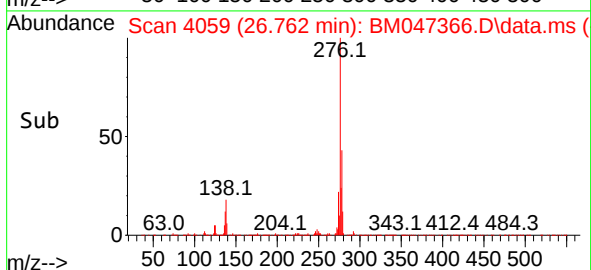
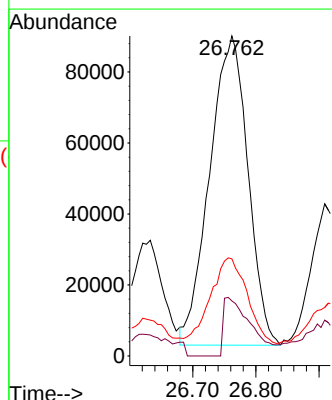
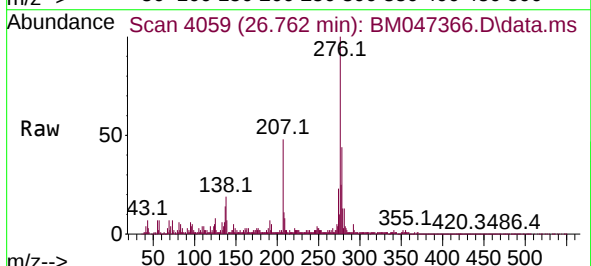
Tgt Ion:278 Resp: 367159

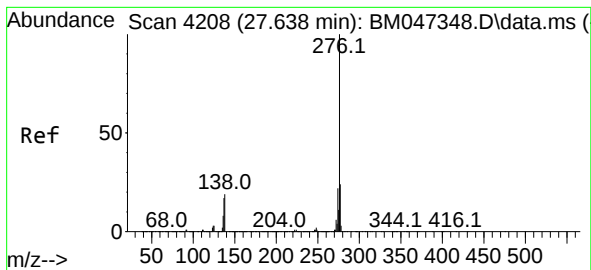
Ion Ratio Lower Upper

278 100

139 17.2 11.1 16.7#

279 30.4 19.2 28.8#





#92
 Benzo(g,h,i)perylene
 Concen: 30.792 ng
 RT: 27.668 min Scan# 41
 Delta R.T. 0.030 min
 Lab File: BM047366.D
 Acq: 27 Aug 2024 16:37

Instrument :
 BNA_M
 ClientSampleId :
 SU-03-08232024DL

Tgt Ion:276 Resp: 1493641

Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.4	29.0
138	19.5	15.0	22.6

