

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060322\
 Data File : BM035404.D
 Acq On : 03 Jun 2022 20:37
 Operator : CG/JU
 Sample : N3159-01 10X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PT-1-060122

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 06/06/2022
 Supervised By : Jagrut Upadhyay 06/06/2022

Quant Time: Jun 04 00:46:43 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060222.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 02 16:16:23 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.851	152	209265	20.000	ng	0.00
21) Naphthalene-d8	10.651	136	738459	20.000	ng	# 0.00
39) Acenaphthene-d10	14.492	164	461077	20.000	ng	0.00
64) Phenanthrene-d10	17.245	188	950269	20.000	ng	0.00
76) Chrysene-d12	21.439	240	936347	20.000	ng	# 0.01
86) Perylene-d12	23.803	264	1282788	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	99694	10.011	ng	0.00
7) Phenol-d6	7.040	99	120276	8.842	ng	0.00
23) Nitrobenzene-d5	9.016	82	66112	5.685	ng	0.00
42) 2,4,6-Tribromophenol	15.986	330	58907	7.963	ng	0.00
45) 2-Fluorobiphenyl	13.110	172	213038	6.636	ng	-0.01
79) Terphenyl-d14	19.862	244	351076	7.470	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.704	128	4281632	119.664	ng	100
37) 2-Methylnaphthalene	12.316	142	786394m	29.127	ng	
38) 1-Methylnaphthalene	12.533	142	418504	15.817	ng	# 99
46) 1,1'-Biphenyl	13.328	154	273119	8.310	ng	97
52) Acenaphthene	14.563	154	3713235	157.041	ng	99
55) Dibenzofuran	14.892	168	2679256	65.973	ng	90
58) Fluorene	15.545	166	3661218	115.388	ng	99
71) Phenanthrene	17.298	178	18942618	393.829	ng	93
72) Anthracene	17.380	178	8675252	181.042	ng	97
73) Carbazole	17.651	167	4262661	94.459	ng	98
75) Fluoranthene	19.309	202	21005968	361.784	ng	94
78) Pyrene	19.674	202	19920248	350.824	ng	# 90
81) Benzo(a)anthracene	21.421	228	13766945	239.473	ng	92
83) Chrysene	21.480	228	12442304m	226.670	ng	
87) Indeno(1,2,3-cd)pyrene	26.291	276	10773765	126.606	ng	# 92
88) Benzo(b)fluoranthene	23.103	252	19152043	259.213	ng	96
89) Benzo(k)fluoranthene	23.139	252	6609586m	87.420	ng	
90) Benzo(a)pyrene	23.721	252	14844086	235.966	ng	94
91) Dibenzo(a,h)anthracene	26.285	278	2793960	39.337	ng	# 81
92) Benzo(g,h,i)perylene	27.044	276	10186161	148.685	ng	94

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

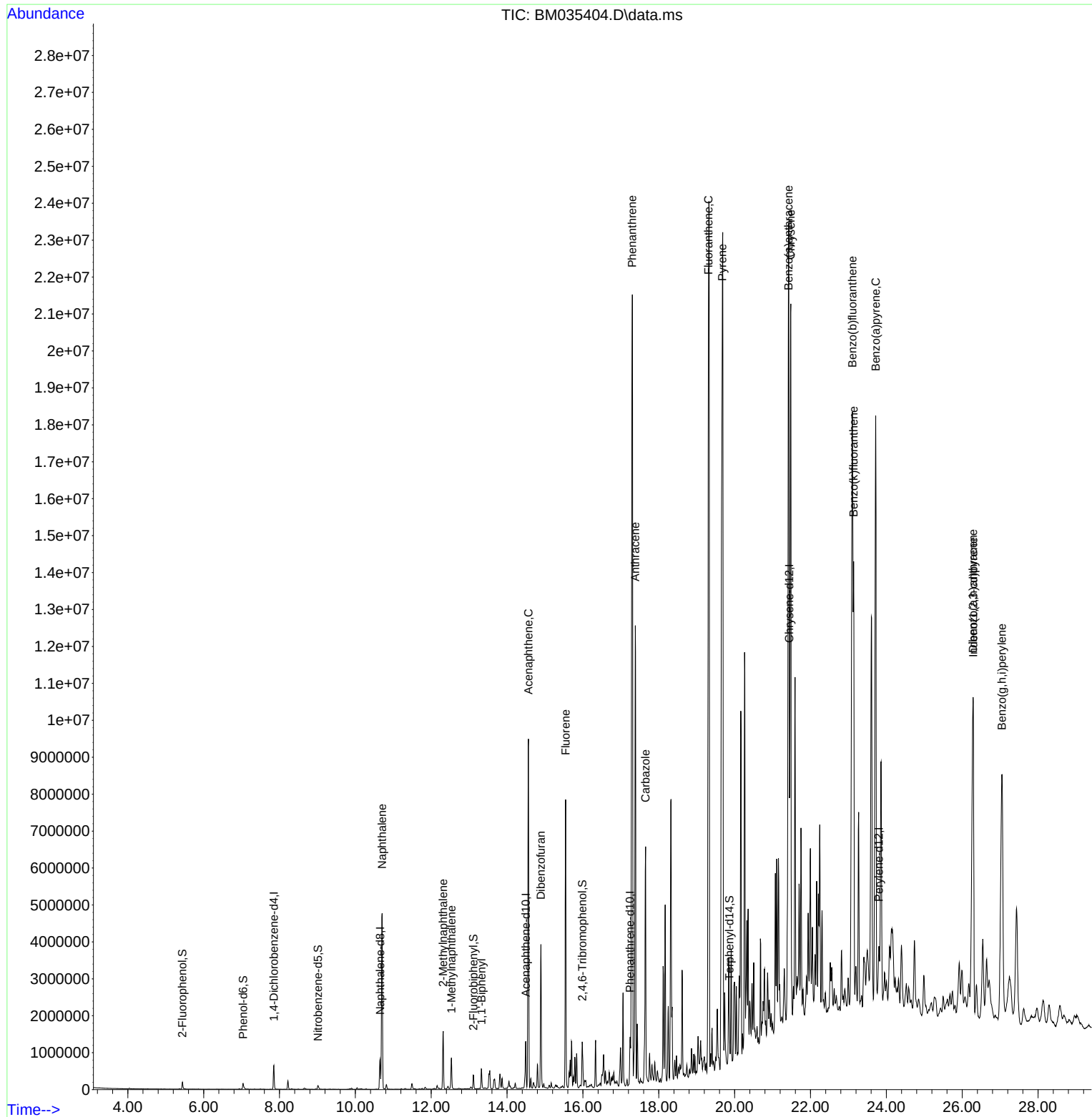
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060322\
Data File : BM035404.D
Acq On : 03 Jun 2022 20:37
Operator : CG/JU
Sample : N3159-01 10X
Misc :
ALS Vial : 19 Sample Multiplier: 1

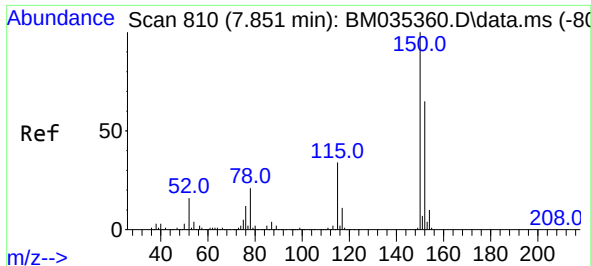
Instrument :
BNA_M
ClientSampleId :
PT-1-060122

Quant Time: Jun 04 00:46:43 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060222.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 02 16:16:23 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

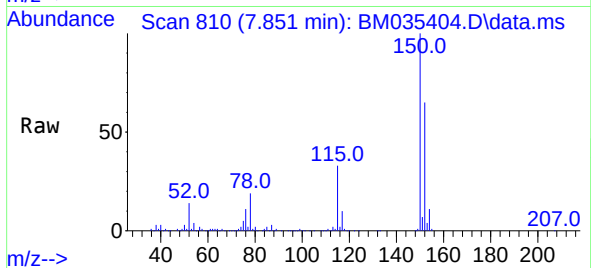
Reviewed By : Christian Giraldo 06/06/2022
Supervised By : Jagrut Upadhyay 06/06/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.851 min Scan# 810
Delta R.T. 0.000 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37

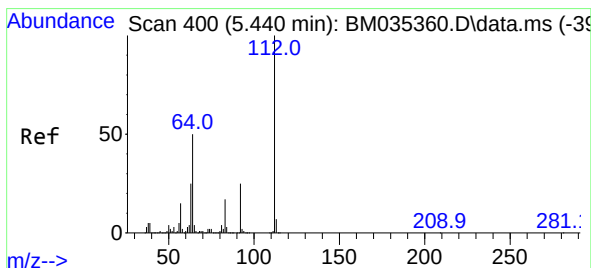
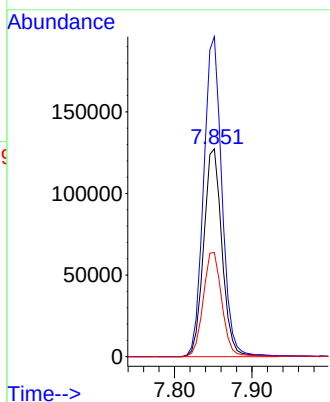
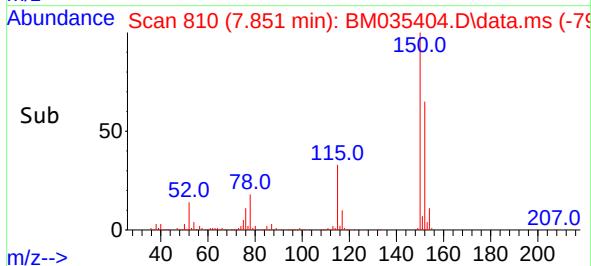
Instrument :
BNA_M
ClientSampleId :
PT-1-060122



Tgt Ion:152 Resp: 20926
Ion Ratio Lower Upper
152 100
150 154.0 124.9 187.3
115 50.1 47.9 71.9

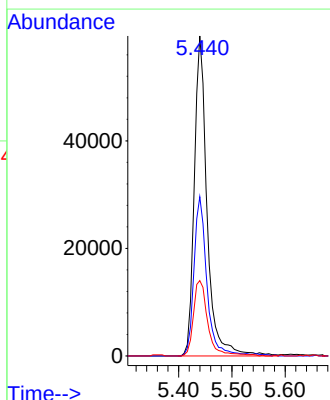
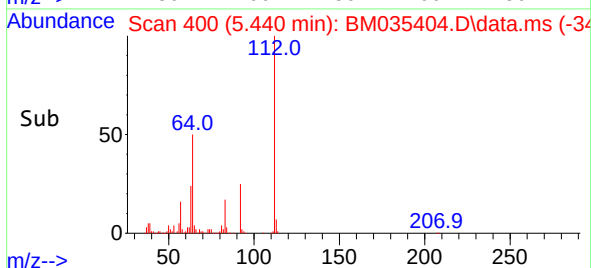
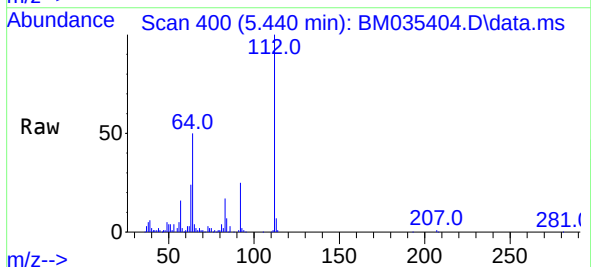
Manual Integrations
APPROVED

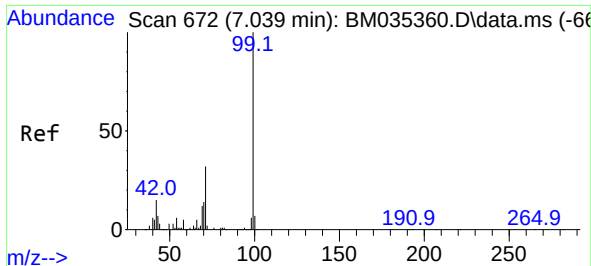
Reviewed By :Christian Giraldo 06/06/2022
Supervised By :Jagrut Upadhyay 06/06/2022



#5
2-Fluorophenol
Concen: 10.011 ng
RT: 5.440 min Scan# 400
Delta R.T. 0.000 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37

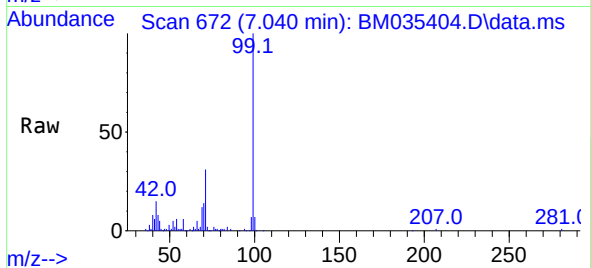
Tgt Ion:112 Resp: 99694
Ion Ratio Lower Upper
112 100
64 49.8 47.8 71.6
63 23.6 26.6 40.0#





#7
Phenol-d6
Concen: 8.842 ng
RT: 7.040 min Scan# 61
Delta R.T. 0.000 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37

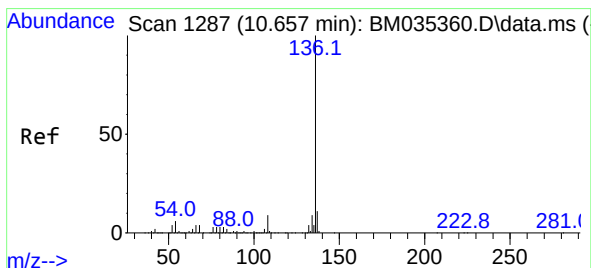
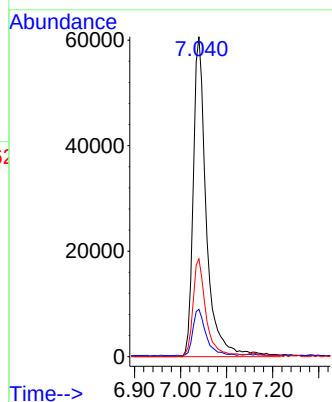
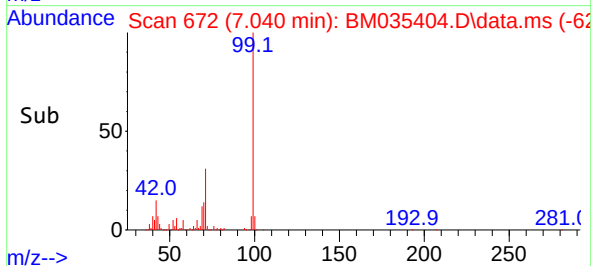
Instrument :
BNA_M
ClientSampleId :
PT-1-060122



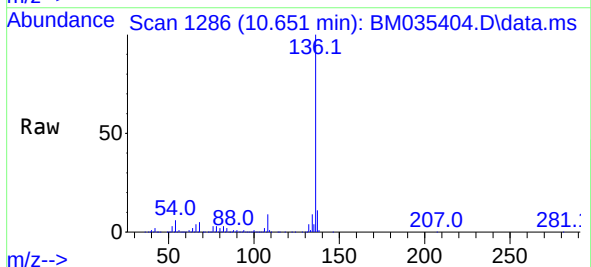
Tgt Ion: 99 Resp: 120270
Ion Ratio Lower Upper
99 100
42 14.8 18.8 28.2
71 30.5 30.2 45.2

Manual Integrations
APPROVED

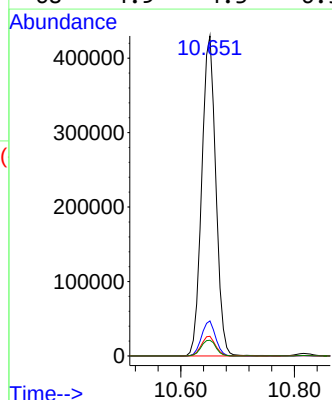
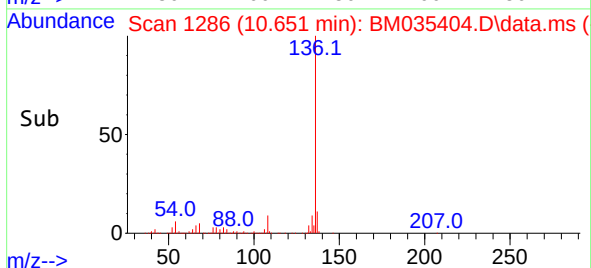
Reviewed By :Christian Giraldo 06/06/2022
Supervised By :Jagrut Upadhyay 06/06/2022

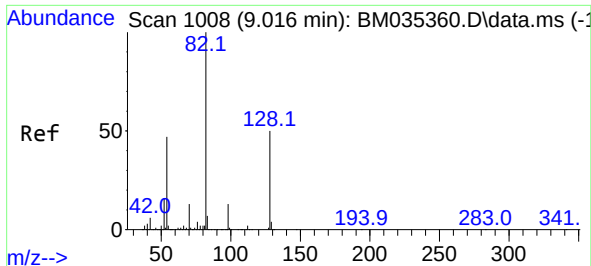


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.651 min Scan# 1286
Delta R.T. -0.006 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37



Tgt Ion:136 Resp: 738459
Ion Ratio Lower Upper
136 100
137 10.9 8.9 13.3
54 6.1 7.0 10.4
68 4.9 4.3 6.5





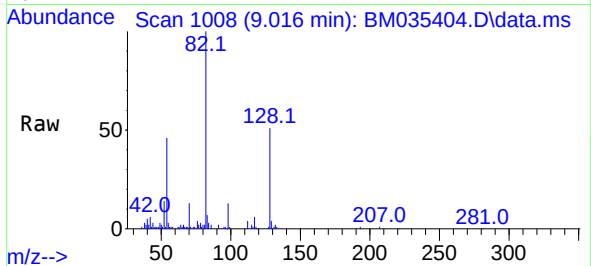
#23
Nitrobenzene-d5
Concen: 5.685 ng
RT: 9.016 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37

Instrument :

BNA_M

ClientSampleId :

PT-1-060122

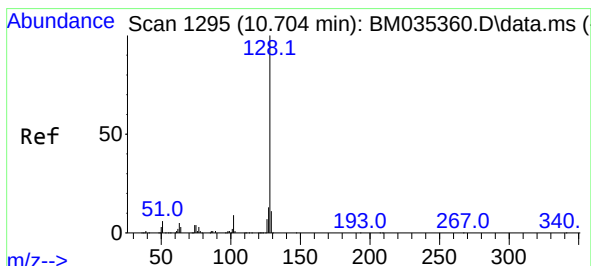
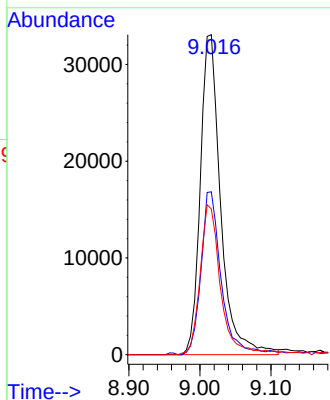
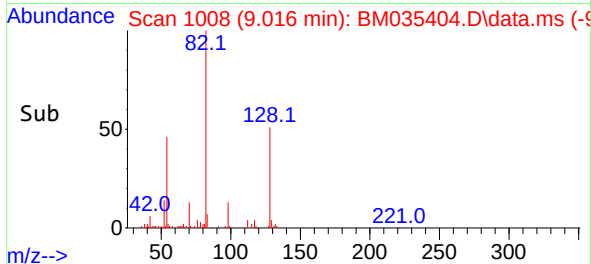


Tgt Ion: 82 Resp: 66112
Ion Ratio Lower Upper
82 100
128 50.9 33.7 50.5
54 45.6 43.2 64.8

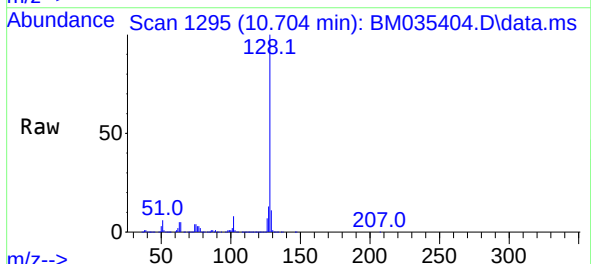
Manual Integrations

APPROVED

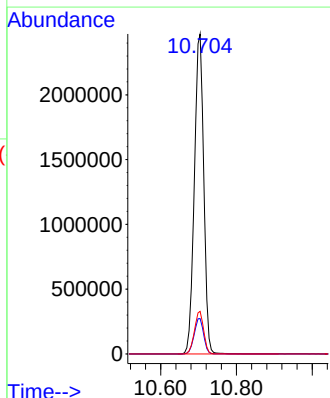
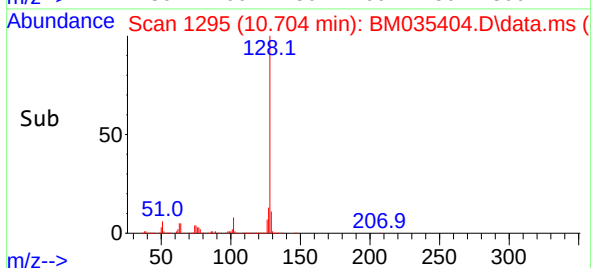
Reviewed By :Christian Giraldo 06/06/2022
Supervised By :Jagrut Upadhyay 06/06/2022

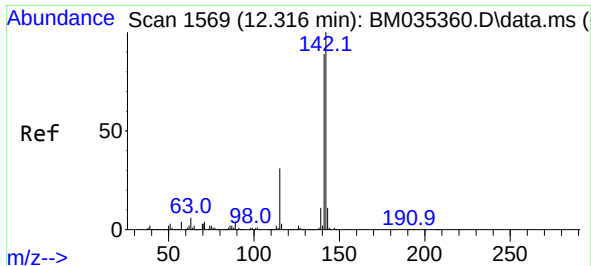


#31
Naphthalene
Concen: 119.664 ng
RT: 10.704 min Scan# 1295
Delta R.T. 0.000 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37



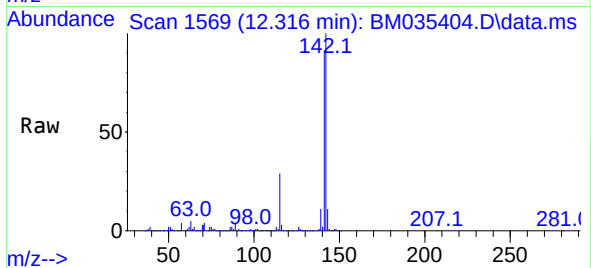
Tgt Ion:128 Resp: 4281632
Ion Ratio Lower Upper
128 100
129 11.1 8.7 13.1
127 13.3 10.6 16.0





#37
2-Methylnaphthalene
Concen: 29.127 ng m
RT: 12.316 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37

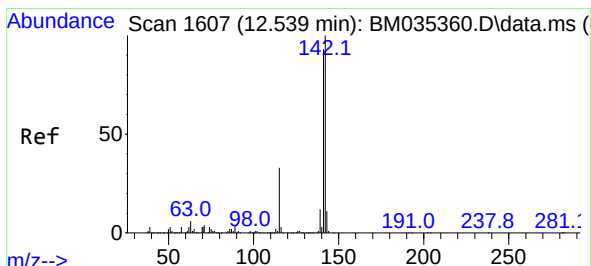
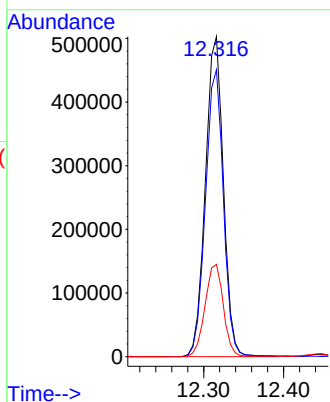
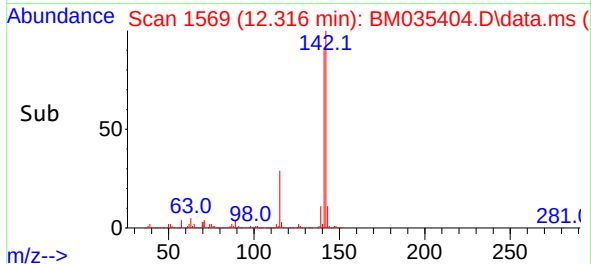
Instrument :
BNA_M
ClientSampleId :
PT-1-060122



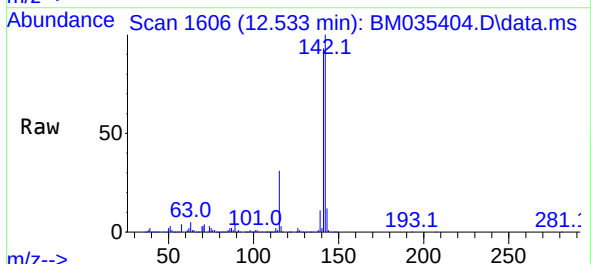
Tgt Ion:142 Resp: 786394
Ion Ratio Lower Upper
142 100
141 89.7 72.4 108.6
115 28.8 29.6 44.4

Manual Integrations
APPROVED

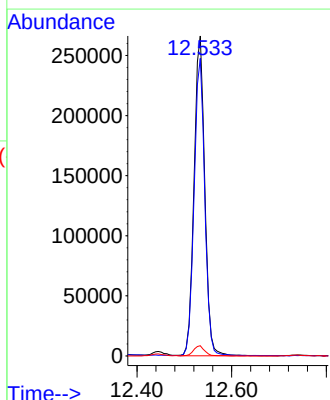
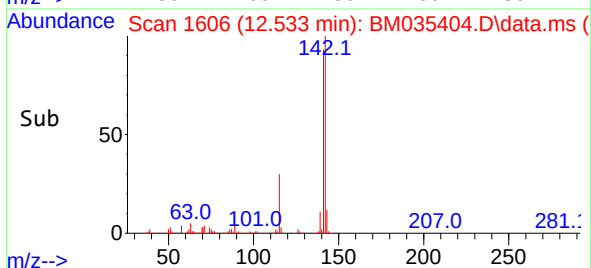
Reviewed By :Christian Giraldo 06/06/2022
Supervised By :Jagrut Upadhyay 06/06/2022

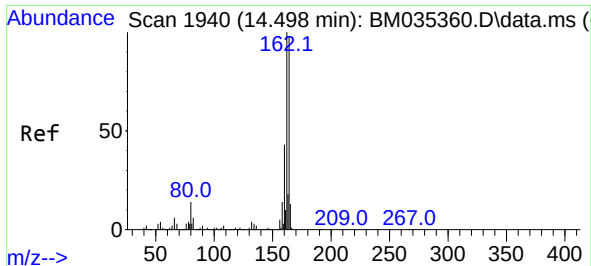


#38
1-Methylnaphthalene
Concen: 15.817 ng
RT: 12.533 min Scan# 1606
Delta R.T. -0.006 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37



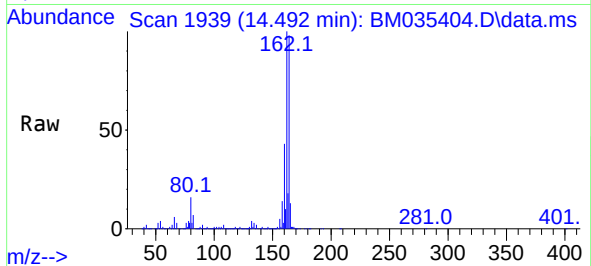
Tgt Ion:142 Resp: 418504
Ion Ratio Lower Upper
142 100
141 93.0 75.0 112.4
116 3.2 3.4 5.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.492 min Scan# 1940
Delta R.T. -0.006 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37

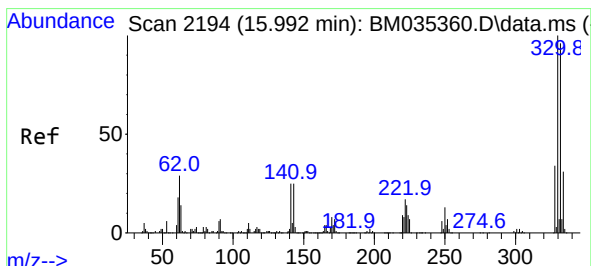
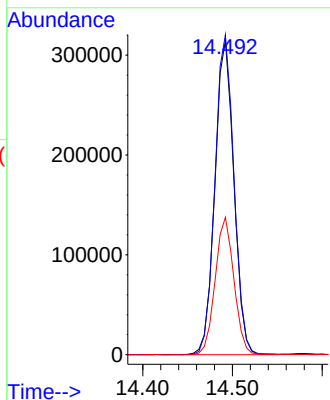
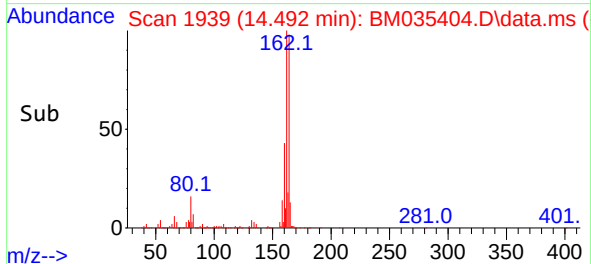
Instrument :
BNA_M
ClientSampleId :
PT-1-060122



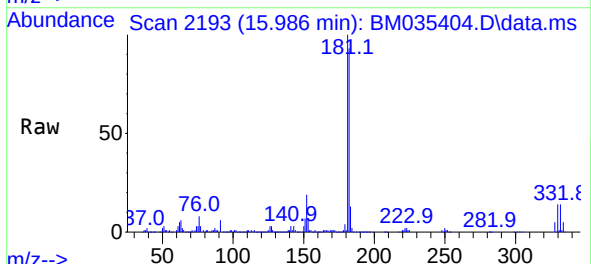
Tgt Ion:164 Resp: 461077
Ion Ratio Lower Upper
164 100
162 101.8 83.0 124.6
160 43.7 37.0 55.4

Manual Integrations
APPROVED

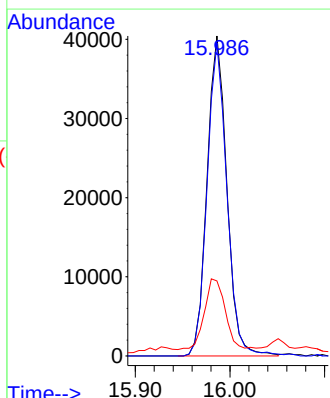
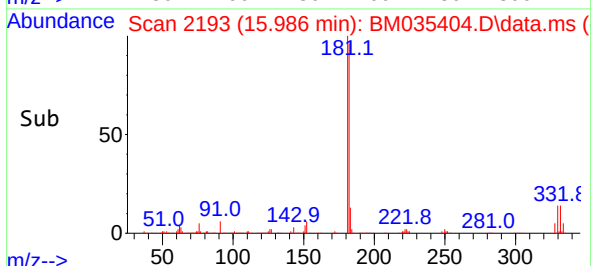
Reviewed By :Christian Giraldo 06/06/2022
Supervised By :Jagrut Upadhyay 06/06/2022

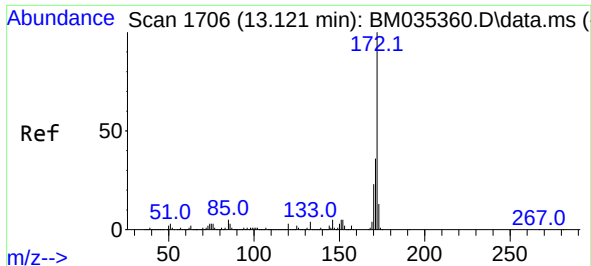


#42
2,4,6-Tribromophenol
Concen: 7.963 ng
RT: 15.986 min Scan# 2193
Delta R.T. -0.006 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37



Tgt Ion:330 Resp: 58907
Ion Ratio Lower Upper
330 100
332 97.7 77.0 115.4
141 23.2 35.3 52.9#





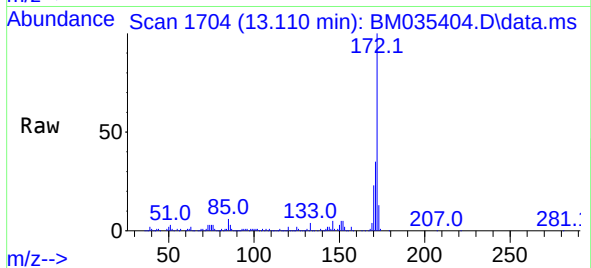
#45
2-Fluorobiphenyl
Concen: 6.636 ng
RT: 13.110 min Scan# 1704
Delta R.T. -0.012 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37

Instrument :

BNA_M

ClientSampleId :

PT-1-060122

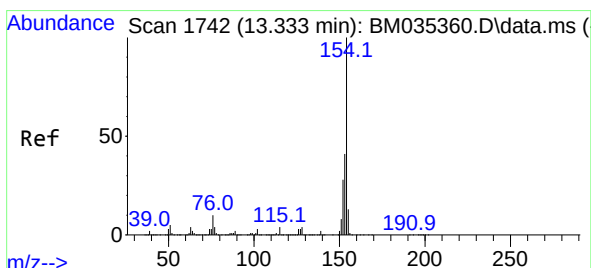
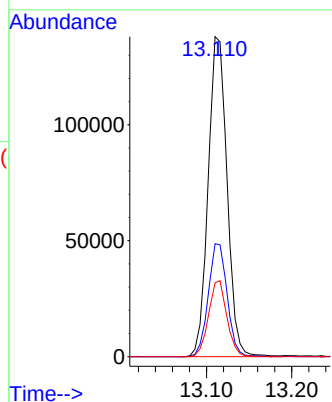
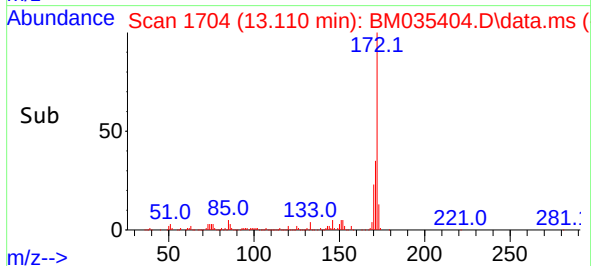


Tgt Ion:172 Resp: 213038
Ion Ratio Lower Upper
172 100
171 35.3 28.5 42.7
170 23.1 18.7 28.1

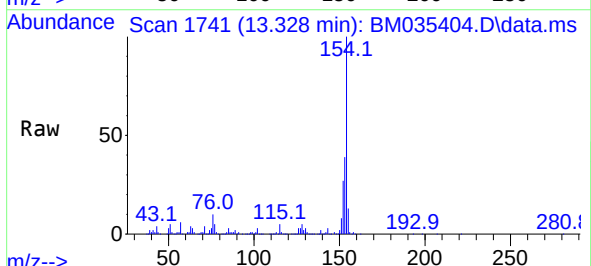
Manual Integrations

APPROVED

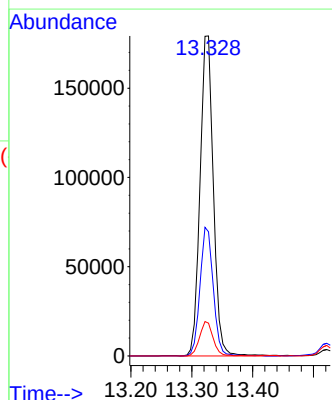
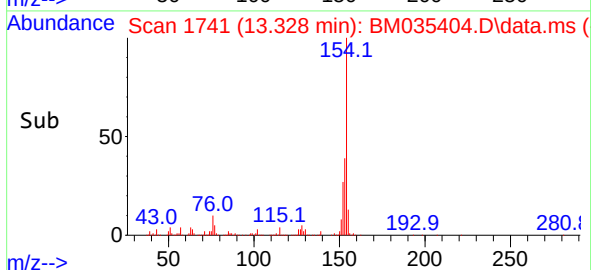
Reviewed By :Christian Giraldo 06/06/2022
Supervised By :Jagrut Upadhyay 06/06/2022

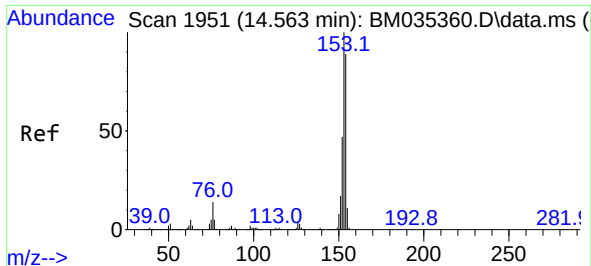


#46
1,1'-Biphenyl
Concen: 8.310 ng
RT: 13.328 min Scan# 1741
Delta R.T. -0.006 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37



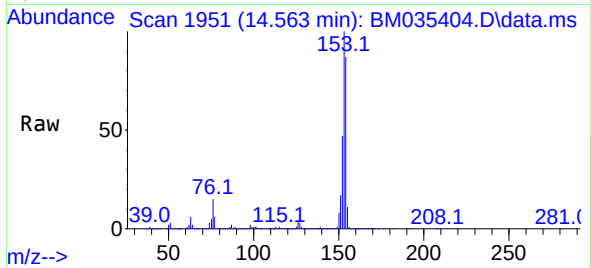
Tgt Ion:154 Resp: 273119
Ion Ratio Lower Upper
154 100
153 38.8 20.5 60.5
76 10.2 0.0 31.8





#52
Acenaphthene
Concen: 157.041 ng
RT: 14.563 min Scan# 1951
Delta R.T. 0.000 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37

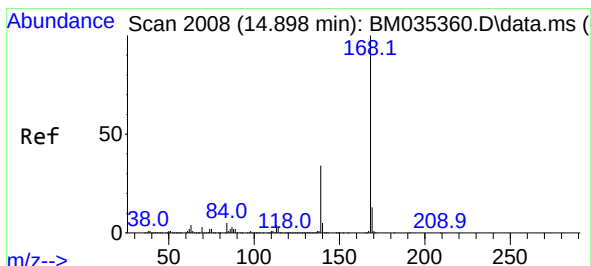
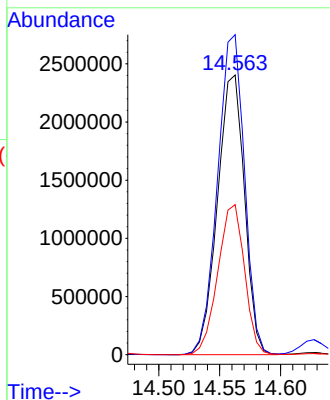
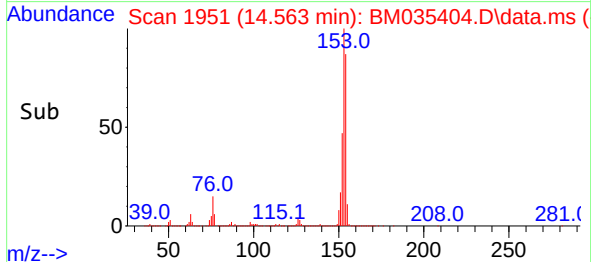
Instrument :
BNA_M
ClientSampleId :
PT-1-060122



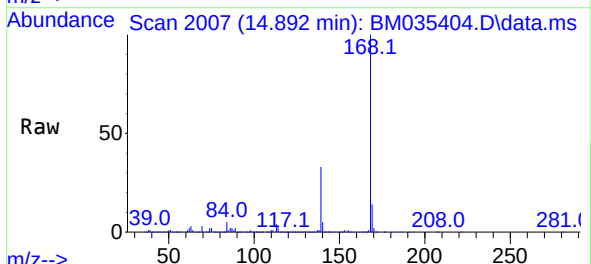
Tgt Ion:154 Resp: 3713235
Ion Ratio Lower Upper
154 100
153 114.4 91.0 136.6
152 53.7 43.4 65.2

Manual Integrations
APPROVED

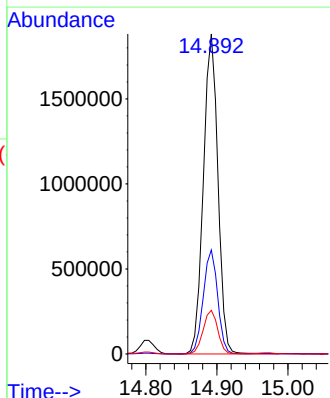
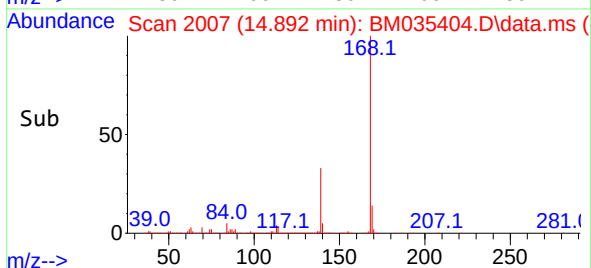
Reviewed By :Christian Giraldo 06/06/2022
Supervised By :Jagrut Upadhyay 06/06/2022

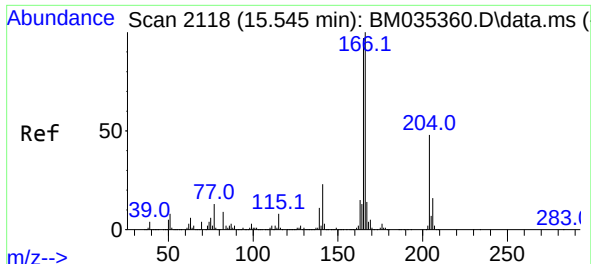


#55
Dibenzofuran
Concen: 65.973 ng
RT: 14.892 min Scan# 2007
Delta R.T. -0.006 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37



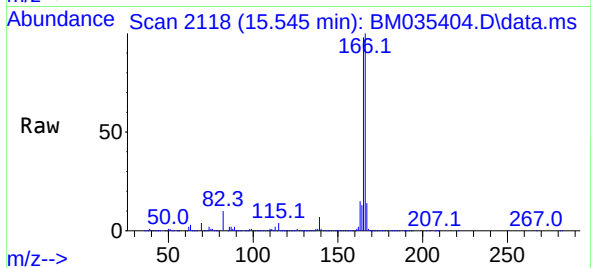
Tgt Ion:168 Resp: 2679256
Ion Ratio Lower Upper
168 100
139 32.5 32.2 48.2
169 13.7 10.6 16.0





#58
Fluorene
Concen: 115.388 ng
RT: 15.545 min Scan# 2118
Delta R.T. 0.000 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37

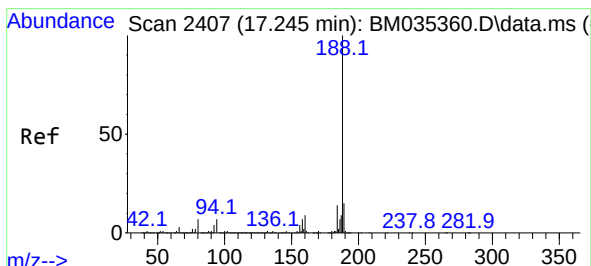
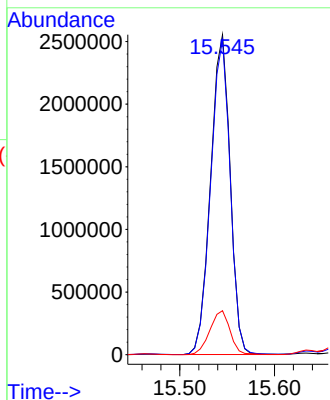
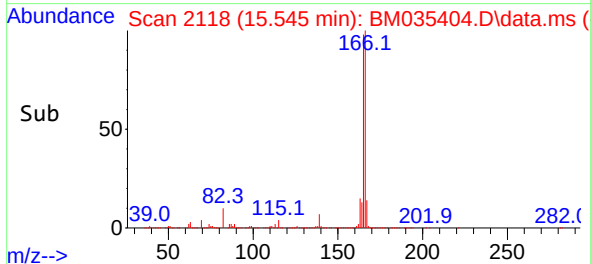
Instrument :
BNA_M
ClientSampleId :
PT-1-060122



Tgt Ion:166 Resp: 3661218
Ion Ratio Lower Upper
166 100
165 98.5 79.4 119.2
167 13.7 10.6 16.0

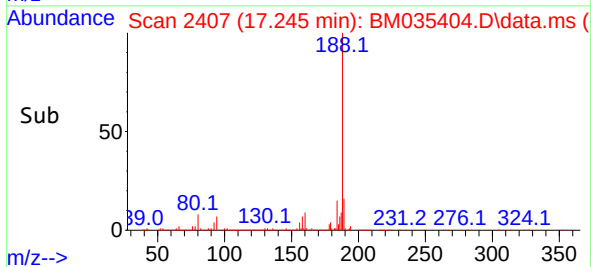
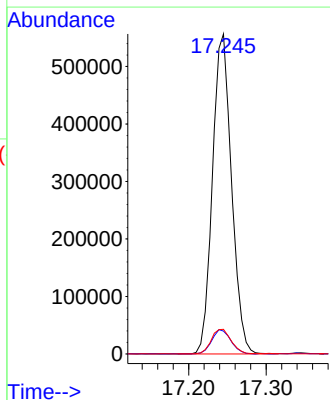
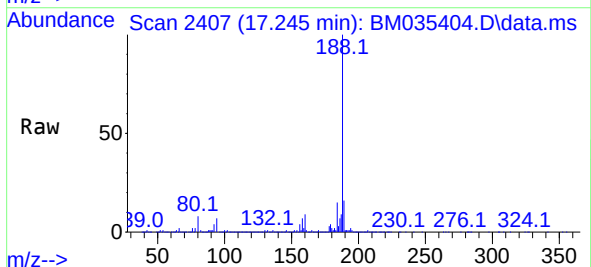
Manual Integrations
APPROVED

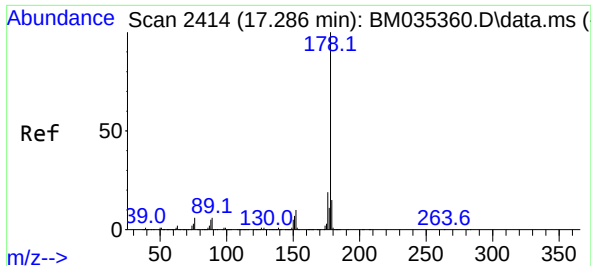
Reviewed By :Christian Giraldo 06/06/2022
Supervised By :Jagrut Upadhyay 06/06/2022



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.245 min Scan# 2407
Delta R.T. 0.000 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37

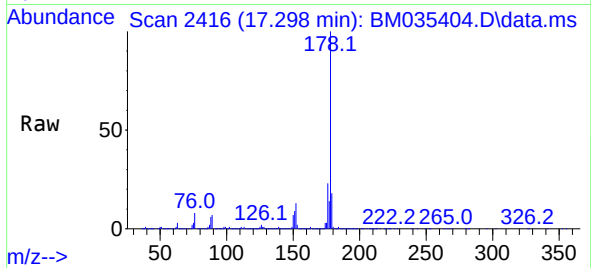
Tgt Ion:188 Resp: 950269
Ion Ratio Lower Upper
188 100
94 7.1 7.0 10.4
80 7.7 7.6 11.4





#71
Phenanthrene
Concen: 393.829 ng
RT: 17.298 min Scan# 2414
Delta R.T. 0.012 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37

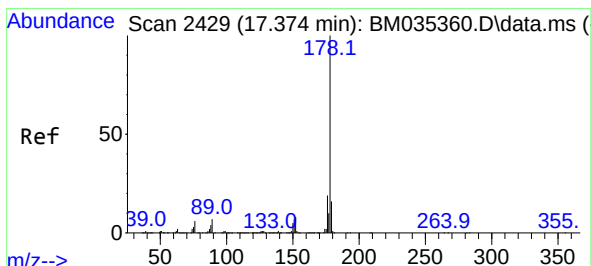
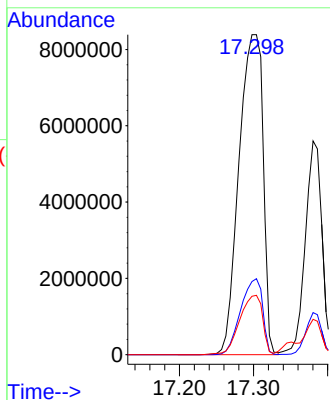
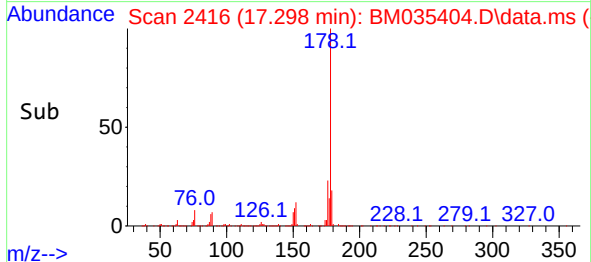
Instrument :
BNA_M
ClientSampleId :
PT-1-060122



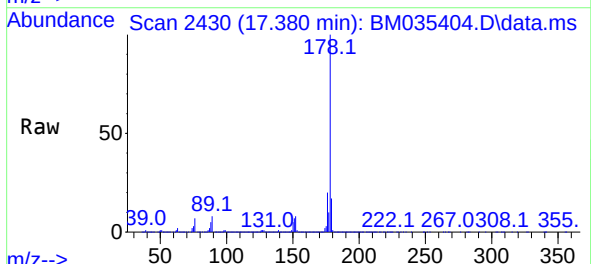
Tgt Ion:178 Resp:18942618
Ion Ratio Lower Upper
178 100
176 22.9 15.4 23.0
179 18.3 12.4 18.6

Manual Integrations
APPROVED

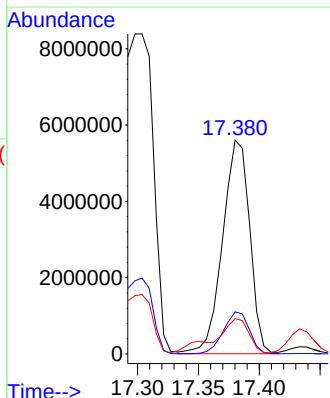
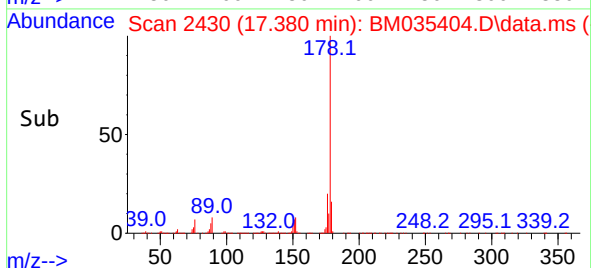
Reviewed By :Christian Giraldo 06/06/2022
Supervised By :Jagrut Upadhyay 06/06/2022

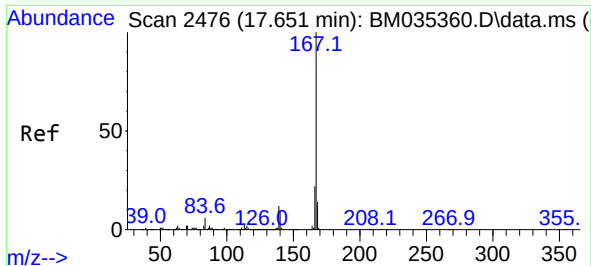


#72
Anthracene
Concen: 181.042 ng
RT: 17.380 min Scan# 2430
Delta R.T. 0.006 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37



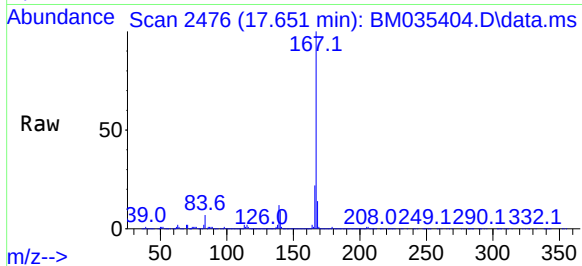
Tgt Ion:178 Resp: 8675252
Ion Ratio Lower Upper
178 100
176 19.7 15.0 22.4
179 16.5 12.2 18.2





#73
 Carbazole
 Concen: 94.459 ng
 RT: 17.651 min Scan# 2476
 Delta R.T. 0.000 min
 Lab File: BM035404.D
 Acq: 03 Jun 2022 20:37

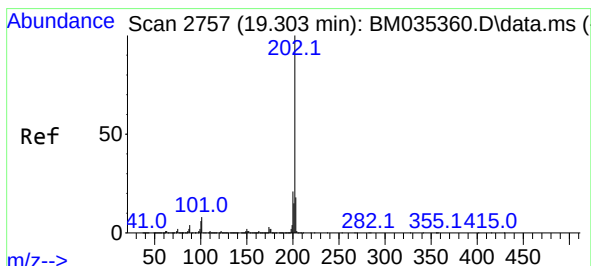
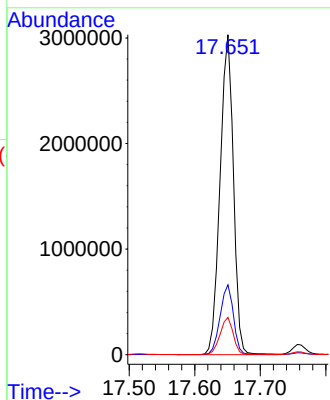
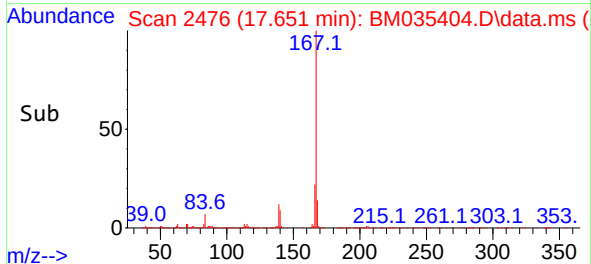
Instrument :
 BNA_M
 ClientSampleId :
 PT-1-060122



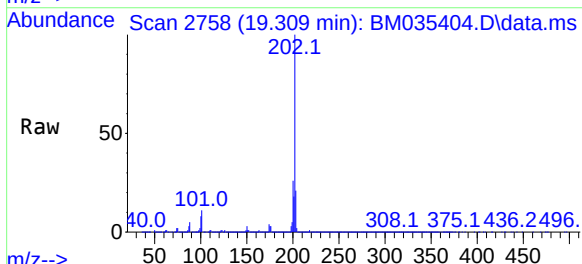
Tgt Ion:167 Resp: 426266
 Ion Ratio Lower Upper
 167 100
 166 21.9 17.8 26.8
 139 11.7 10.9 16.3

Manual Integrations
 APPROVED

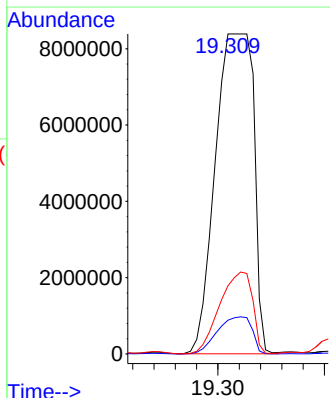
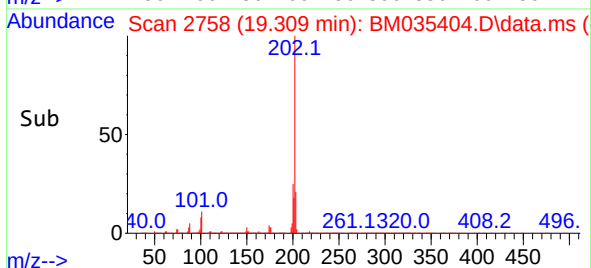
Reviewed By :Christian Giraldo 06/06/2022
 Supervised By :Jagrut Upadhyay 06/06/2022

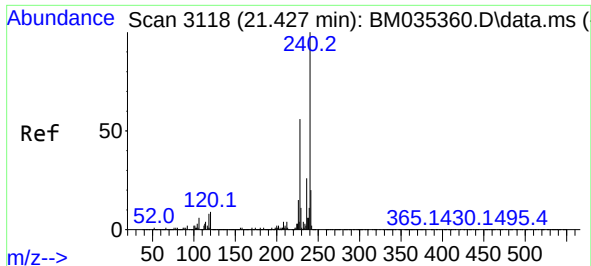


#75
 Fluoranthene
 Concen: 361.784 ng
 RT: 19.309 min Scan# 2758
 Delta R.T. 0.006 min
 Lab File: BM035404.D
 Acq: 03 Jun 2022 20:37



Tgt Ion:202 Resp:21005968
 Ion Ratio Lower Upper
 202 100
 101 10.6 0.0 30.6
 203 21.3 0.0 37.4





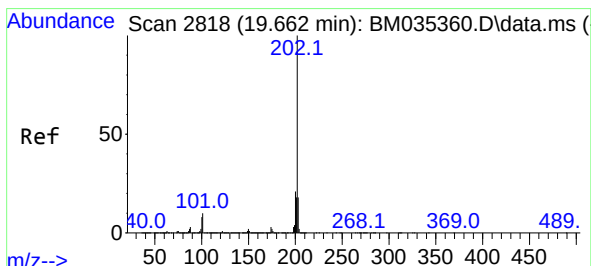
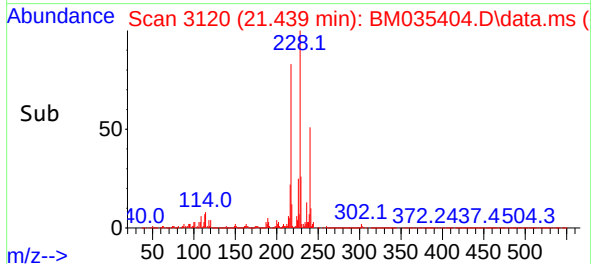
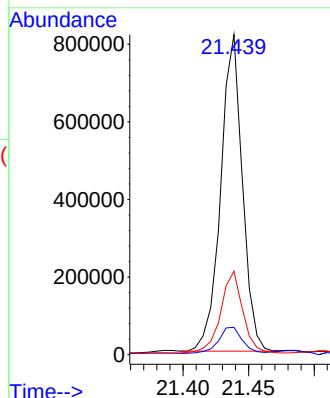
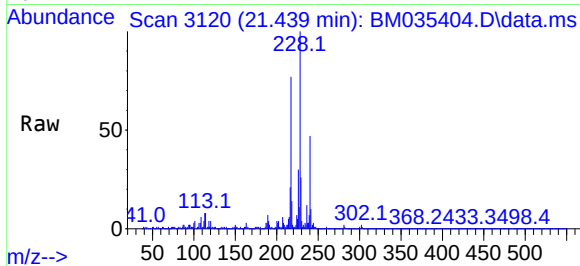
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.439 min Scan# 3118
Delta R.T. 0.012 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37

Instrument :
BNA_M
ClientSampleId :
PT-1-060122

Tgt Ion:240 Resp: 93634
Ion Ratio Lower Upper
240 100
120 8.6 9.4 14.0
236 26.0 20.6 30.8

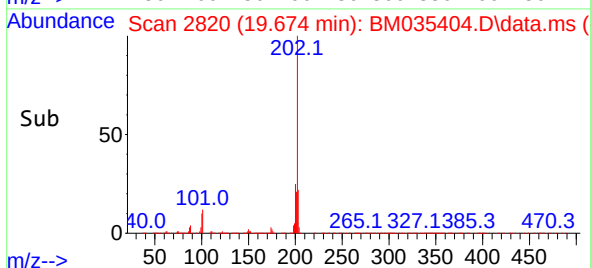
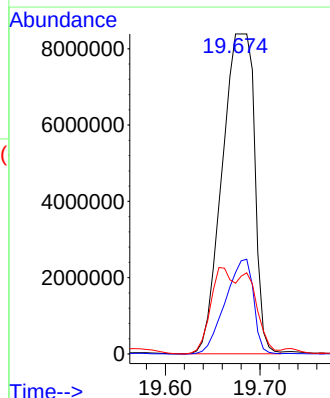
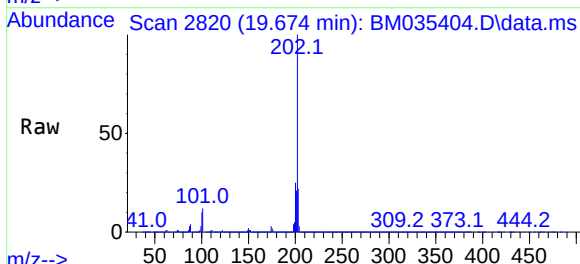
Manual Integrations
APPROVED

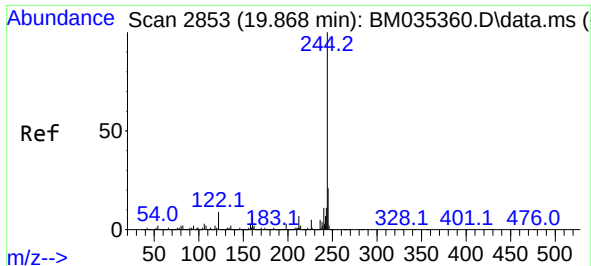
Reviewed By :Christian Giraldo 06/06/2022
Supervised By :Jagrut Upadhyay 06/06/2022



#78
Pyrene
Concen: 350.824 ng
RT: 19.674 min Scan# 2820
Delta R.T. 0.012 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37

Tgt Ion:202 Resp:19920248
Ion Ratio Lower Upper
202 100
200 25.4 16.7 25.1#
203 22.1 13.9 20.9#





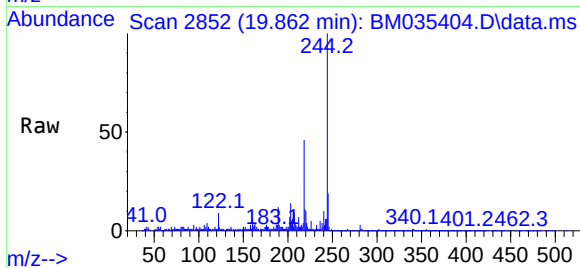
#79
 Terphenyl-d14
 Concen: 7.470 ng
 RT: 19.862 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BM035404.D
 Acq: 03 Jun 2022 20:37

Instrument :

BNA_M

ClientSampleId :

PT-1-060122

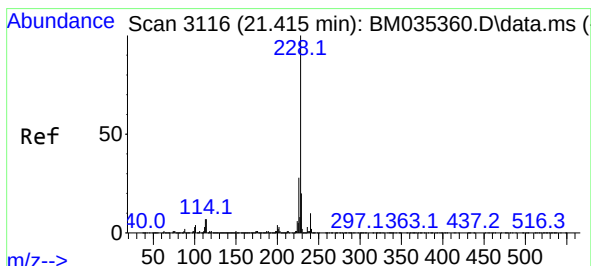
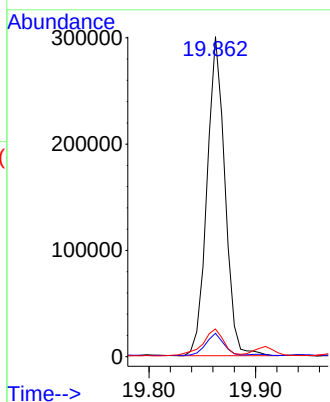
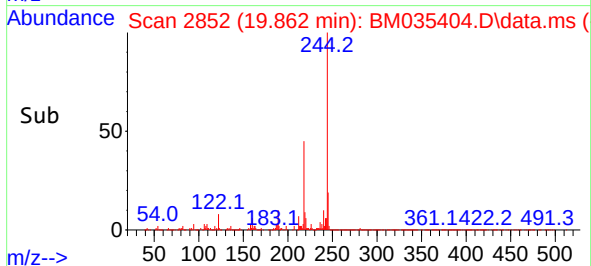


Tgt Ion:244 Resp: 351070
 Ion Ratio Lower Upper
 244 100
 212 7.3 6.2 9.4
 122 8.7 8.3 12.5

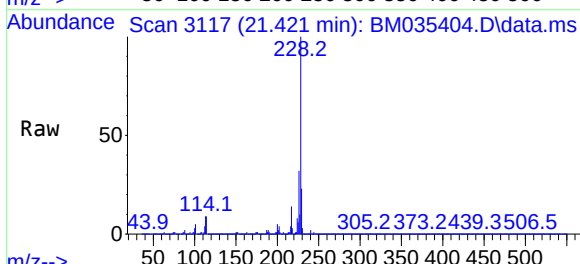
Manual Integrations

APPROVED

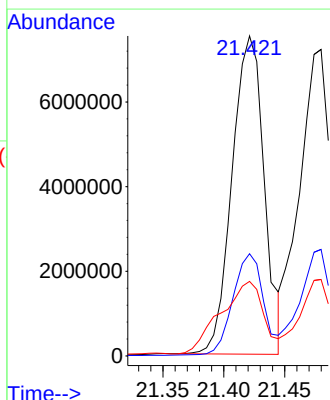
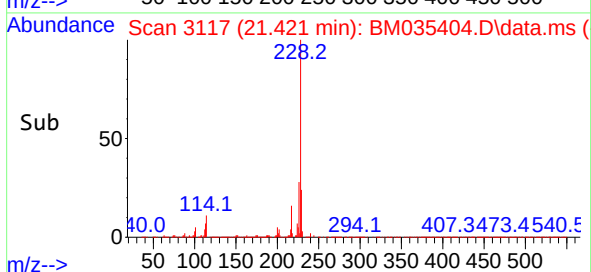
Reviewed By :Christian Giraldo 06/06/2022
 Supervised By :Jagrut Upadhyay 06/06/2022

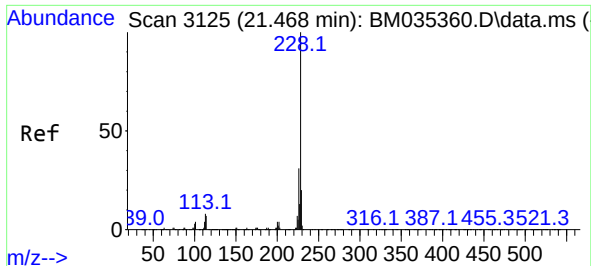


#81
 Benzo(a)anthracene
 Concen: 239.473 ng
 RT: 21.421 min Scan# 3117
 Delta R.T. 0.006 min
 Lab File: BM035404.D
 Acq: 03 Jun 2022 20:37



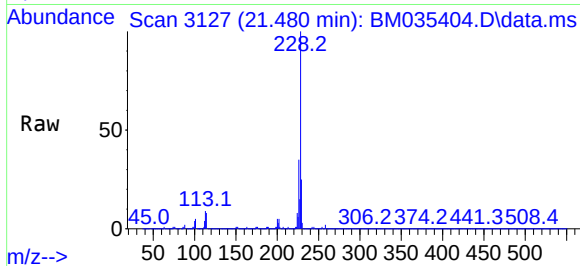
Tgt Ion:228 Resp:13766945
 Ion Ratio Lower Upper
 228 100
 226 31.9 22.3 33.5
 229 23.3 15.8 23.6





#83
Chrysene
Concen: 226.670 ng m
RT: 21.480 min Scan# 31
Delta R.T. 0.012 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37

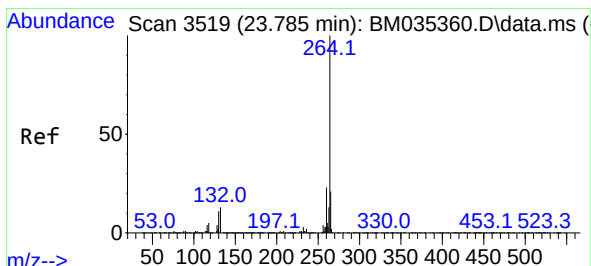
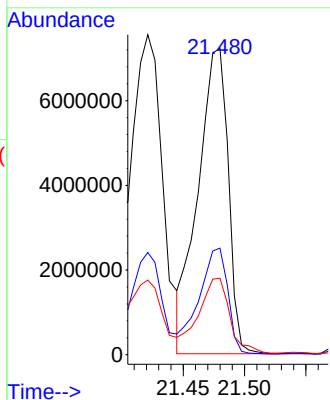
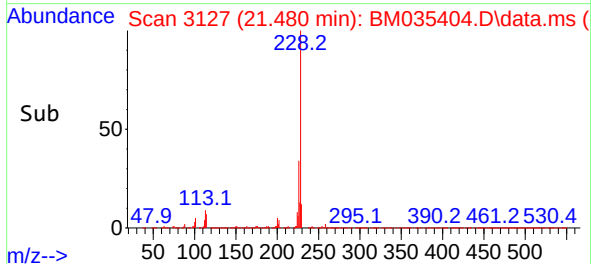
Instrument :
BNA_M
ClientSampleId :
PT-1-060122



Tgt Ion:228 Resp:12442304
Ion Ratio Lower Upper
228 100
226 34.8 24.4 36.6
229 24.9 15.8 23.8

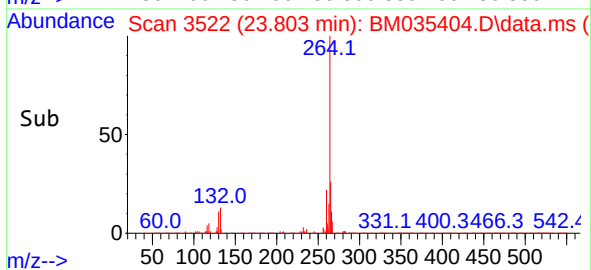
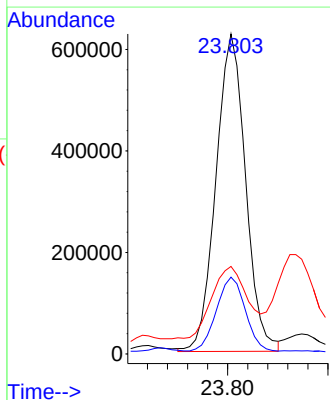
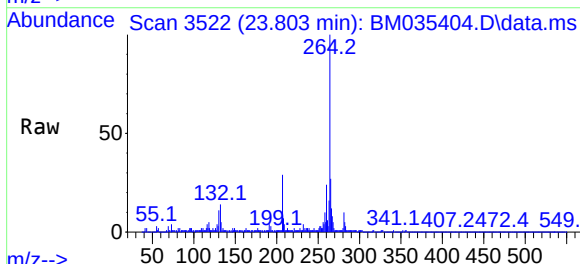
Manual Integrations
APPROVED

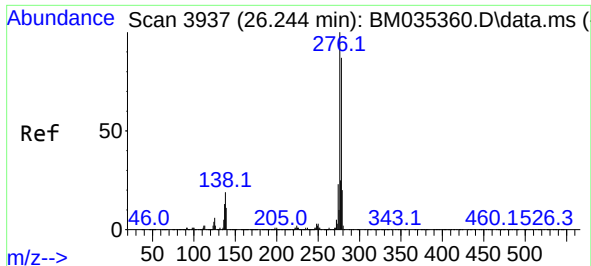
Reviewed By :Christian Giraldo 06/06/2022
Supervised By :Jagrut Upadhyay 06/06/2022



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.803 min Scan# 3522
Delta R.T. 0.018 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37

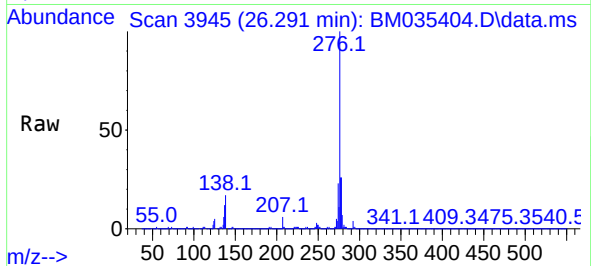
Tgt Ion:264 Resp: 1282788
Ion Ratio Lower Upper
264 100
260 24.0 18.9 28.3
265 27.4 17.5 26.3





#87
Indeno(1,2,3-cd)pyrene
Concen: 126.606 ng
RT: 26.291 min Scan# 3403
Delta R.T. 0.047 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37

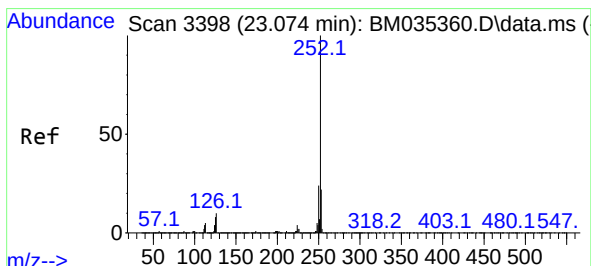
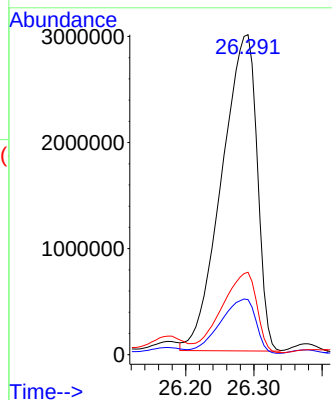
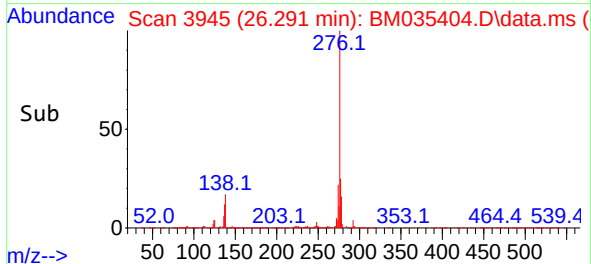
Instrument :
BNA_M
ClientSampleId :
PT-1-060122



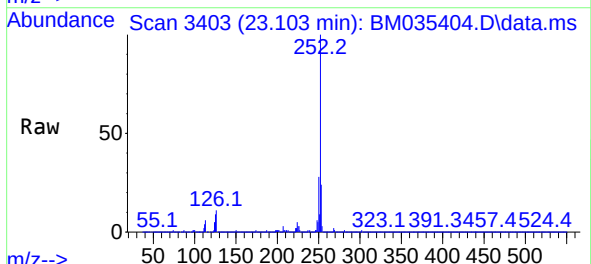
Tgt Ion:276 Resp:1077376
Ion Ratio Lower Upper
276 100
138 17.4 20.2 30.4
277 25.2 20.2 30.2

Manual Integrations
APPROVED

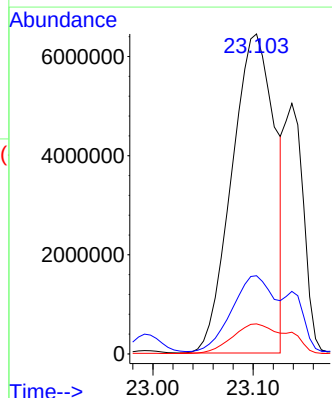
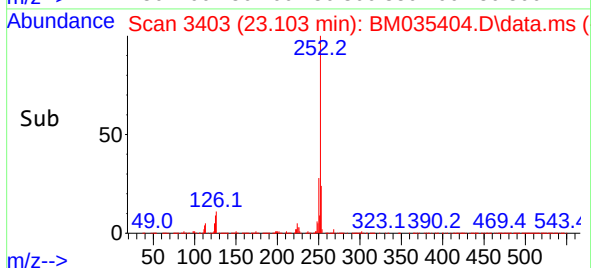
Reviewed By :Christian Giraldo 06/06/2022
Supervised By :Jagrut Upadhyay 06/06/2022

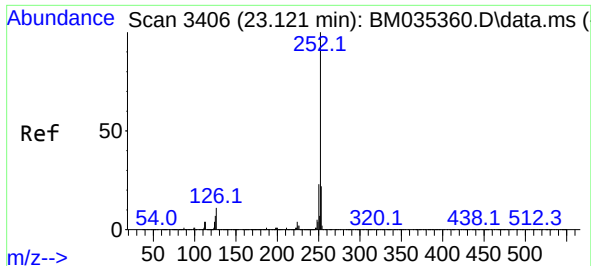


#88
Benzo(b)fluoranthene
Concen: 259.213 ng
RT: 23.103 min Scan# 3403
Delta R.T. 0.030 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37



Tgt Ion:252 Resp:19152043
Ion Ratio Lower Upper
252 100
253 24.4 17.6 26.4
125 9.4 7.6 11.4





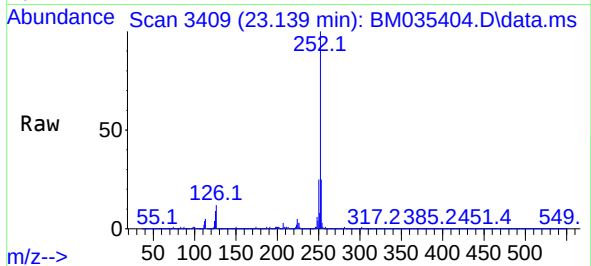
#89
Benzo(k)fluoranthene
Concen: 87.420 ng m
RT: 23.139 min Scan# 3406
Delta R.T. 0.018 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37

Instrument :

BNA_M

ClientSampleId :

PT-1-060122

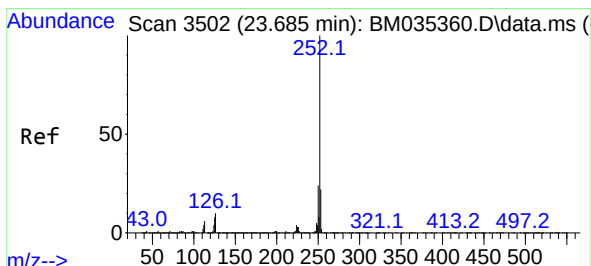
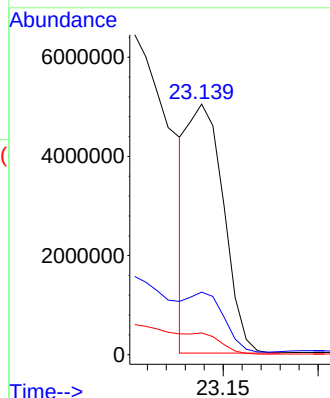
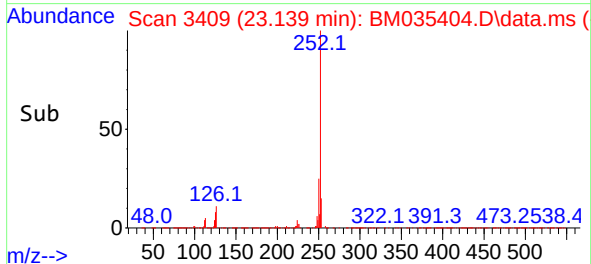


Tgt Ion:252 Resp: 6609586
Ion Ratio Lower Upper
252 100
253 25.0 17.5 26.3
125 8.7 7.6 11.4

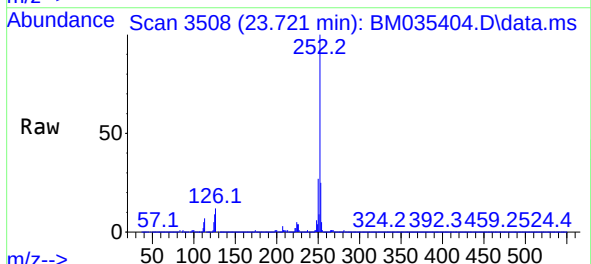
Manual Integrations

APPROVED

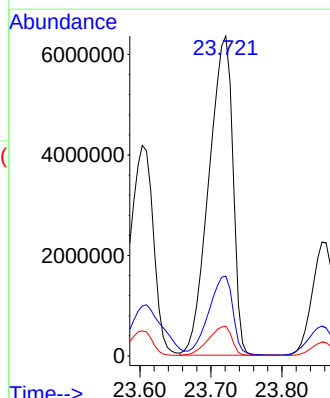
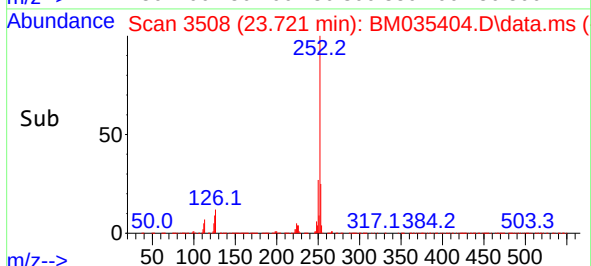
Reviewed By :Christian Giraldo 06/06/2022
Supervised By :Jagrut Upadhyay 06/06/2022

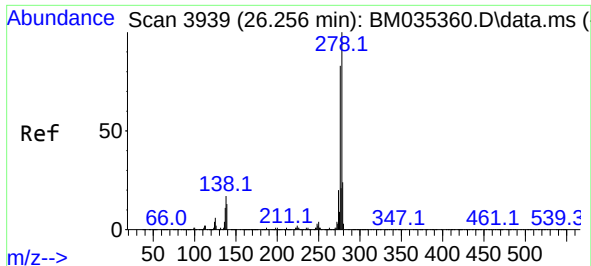


#90
Benzo(a)pyrene
Concen: 235.966 ng
RT: 23.721 min Scan# 3508
Delta R.T. 0.035 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37



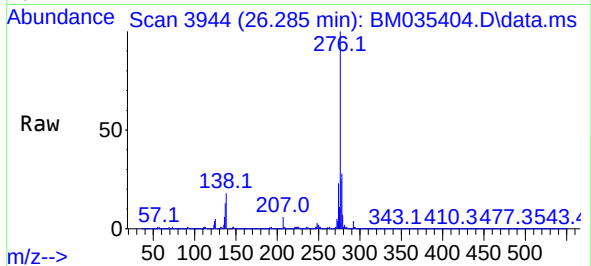
Tgt Ion:252 Resp:14844086
Ion Ratio Lower Upper
252 100
253 24.9 17.2 25.8
125 9.3 8.7 13.1





#91
Dibenzo(a,h)anthracene
Concen: 39.337 ng
RT: 26.285 min Scan# 3939
Delta R.T. 0.030 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37

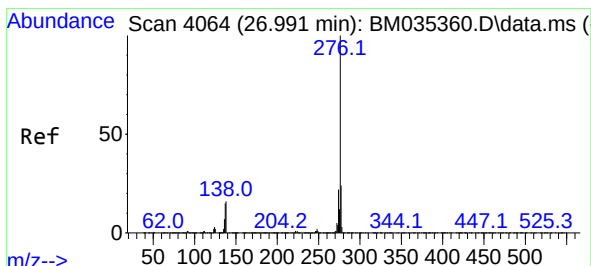
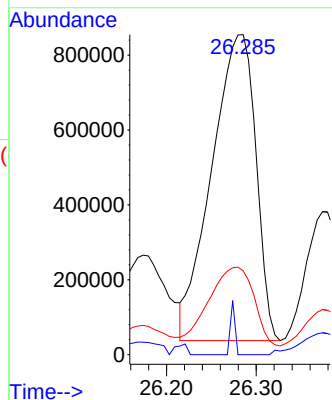
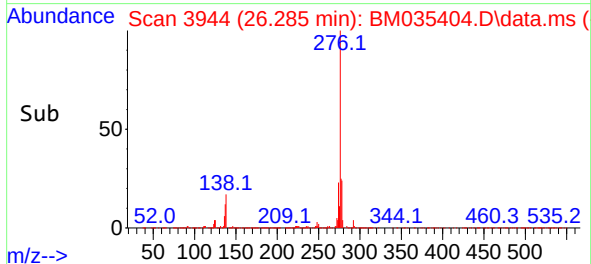
Instrument :
BNA_M
ClientSampleId :
PT-1-060122



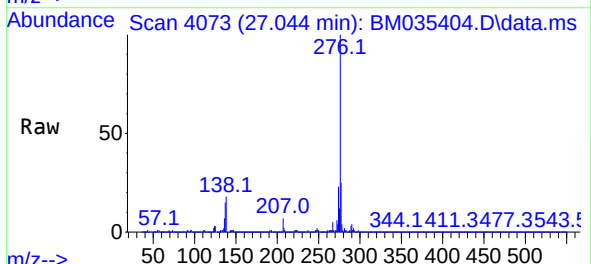
Tgt Ion:278 Resp: 2793960
Ion Ratio Lower Upper
278 100
139 0.0 12.9 19.3
279 26.2 18.7 28.1

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 06/06/2022
Supervised By :Jagrut Upadhyay 06/06/2022



#92
Benzo(g,h,i)perylene
Concen: 148.685 ng
RT: 27.044 min Scan# 4073
Delta R.T. 0.053 min
Lab File: BM035404.D
Acq: 03 Jun 2022 20:37



Tgt Ion:276 Resp:10186161
Ion Ratio Lower Upper
276 100
277 24.9 18.7 28.1
138 17.7 17.6 26.4

