

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
 Data File : BM034321.D
 Acq On : 22 Mar 2022 21:52
 Operator : CG/JU
 Sample : N1962-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C-16-15-16

Quant Time: Mar 23 05:07:25 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 16 02:38:26 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Christian Giraldo 03/23/2022
 Supervised By : Jagrut Upadhyay 03/23/2022

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.937	152	160847	20.000	ng	-0.01
21) Naphthalene-d8	10.748	136	641244	20.000	ng	-0.02
39) Acenaphthene-d10	14.577	164	386981	20.000	ng	-0.01
64) Phenanthrene-d10	17.318	188	755172	20.000	ng	-0.01
76) Chrysene-d12	21.489	240	747375	20.000	ng	-0.01
86) Perylene-d12	23.906	264	837605	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.496	112	1239245	138.216	ng	0.00
7) Phenol-d6	7.096	99	1578519	122.964	ng	-0.01
23) Nitrobenzene-d5	9.101	82	1040273	78.983	ng	-0.01
42) 2,4,6-Tribromophenol	16.060	330	607417	116.452	ng	-0.01
45) 2-Fluorobiphenyl	13.207	172	2137279	75.471	ng	-0.01
79) Terphenyl-d14	19.936	244	3041563	70.715	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	10.801	128	357266	10.694	ng	100
37) 2-Methylnaphthalene	12.407	142	109549	4.596	ng	99
38) 1-Methylnaphthalene	12.630	142	109365	4.690	ng	98
49) Acenaphthylene	14.301	152	105953	3.001	ng	98
52) Acenaphthene	14.642	154	162996	6.855	ng	98
55) Dibenzofuran	14.971	168	221865	6.261	ng	99
58) Fluorene	15.624	166	350214	12.174	ng	100
71) Phenanthrene	17.360	178	2940409	69.528	ng	100
72) Anthracene	17.448	178	619508	15.050	ng	99
73) Carbazole	17.718	167	246409	6.419	ng	100
75) Fluoranthene	19.371	202	2682608	56.584	ng	98
78) Pyrene	19.736	202	2374709	45.098	ng	100
81) Benzo(a)anthracene	21.477	228	1099442	23.307	ng	97
83) Chrysene	21.530	228	971359	20.165	ng	97
87) Indeno(1,2,3-cd)pyrene	26.412	276	494892	9.185	ng	98
88) Benzo(b)fluoranthene	23.171	252	1087517	21.713	ng	99
89) Benzo(k)fluoranthene	23.212	252	398878m	7.518	ng	
90) Benzo(a)pyrene	23.794	252	859773	20.249	ng	98
91) Dibenzo(a,h)anthracene	26.424	278	121402	2.779	ng	# 93
92) Benzo(g,h,i)perylene	27.188	276	493400	10.911	ng	99

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

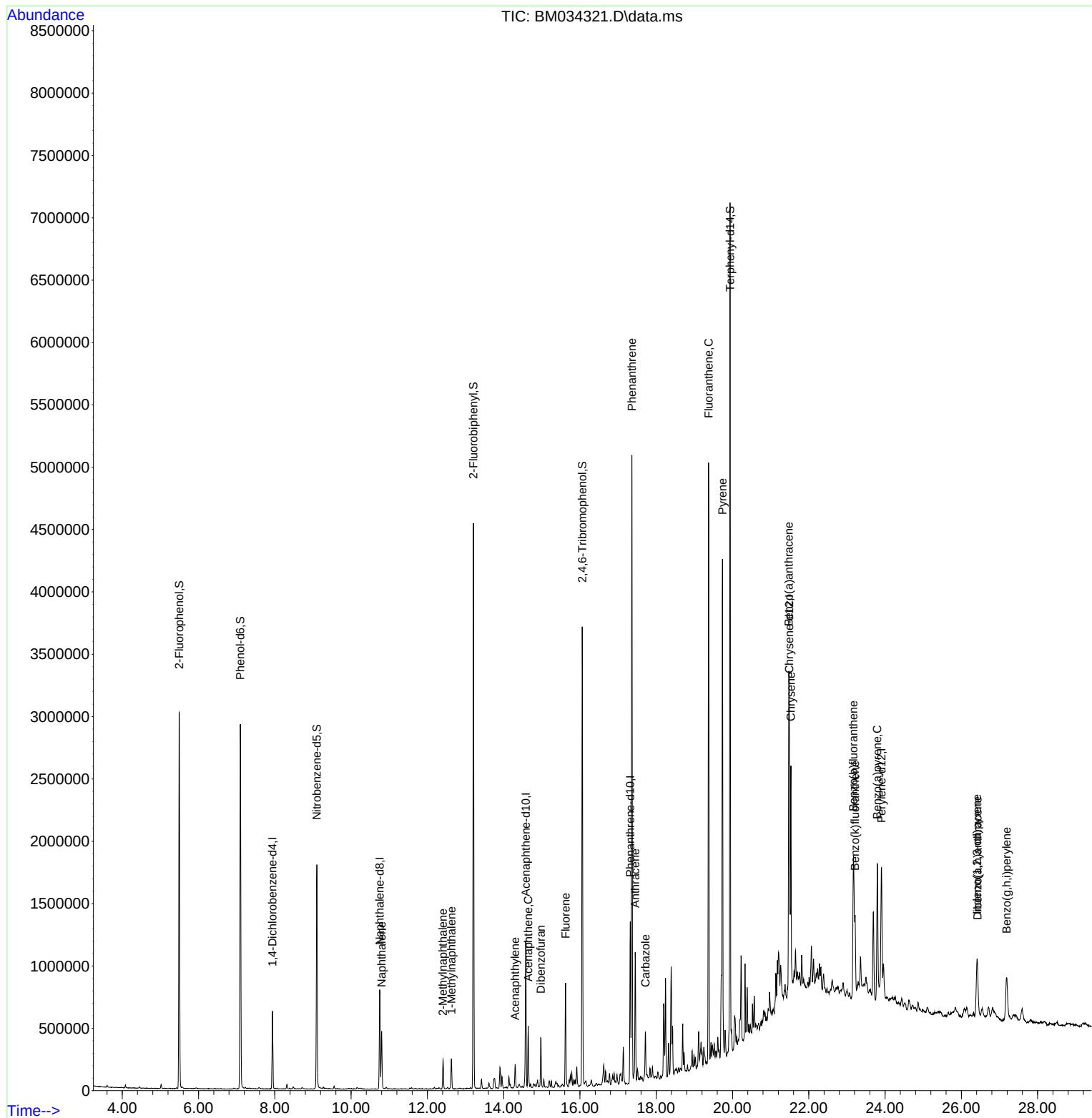
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
Data File : BM034321.D
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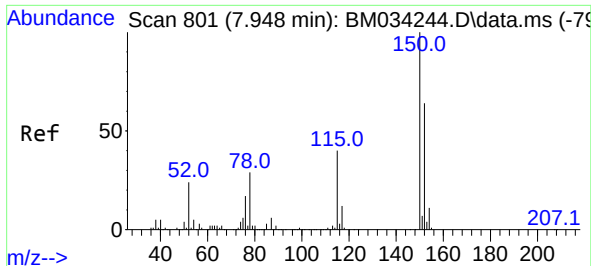
Instrument :
BNA_M
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C-16-15-16

Quant Time: Mar 23 05:07:25 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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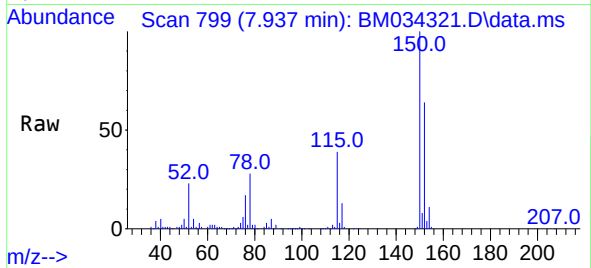
Reviewed By : Christian Giraldo 03/23/2022
Supervised By : Jagrut Upadhyay 03/23/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.937 min Scan# 799
Delta R.T. -0.011 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

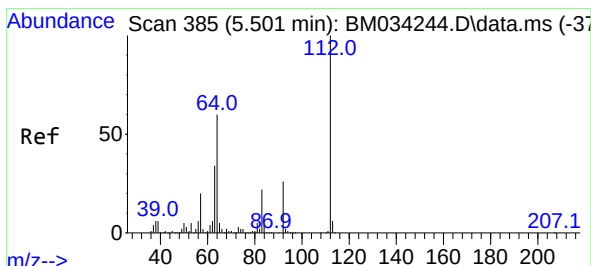
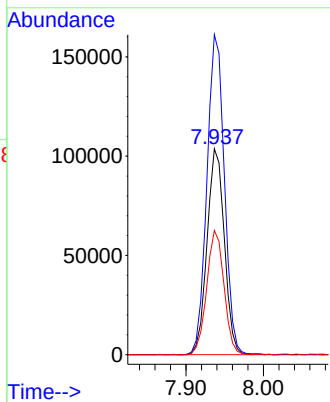
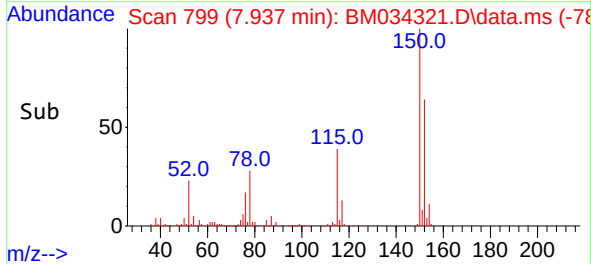
Instrument :
BNA_M
ClientSampleId :
C-16-15-16



Tgt Ion:152 Resp: 16084
Ion Ratio Lower Upper
152 100
150 155.3 125.4 188.2
115 60.3 50.1 75.1

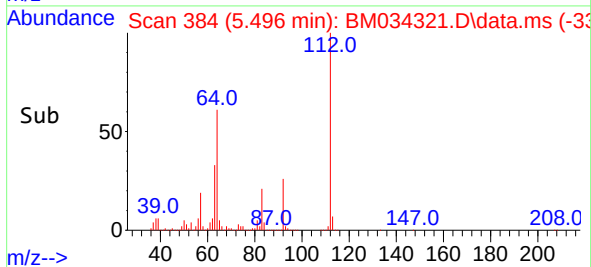
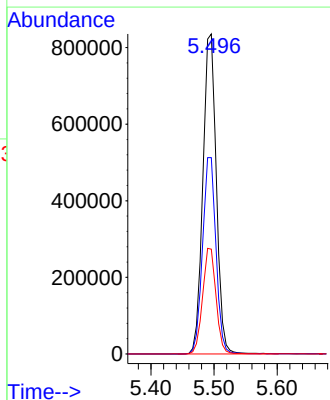
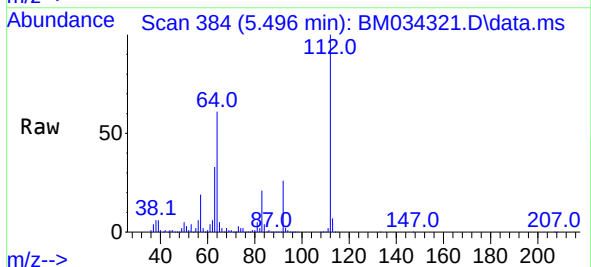
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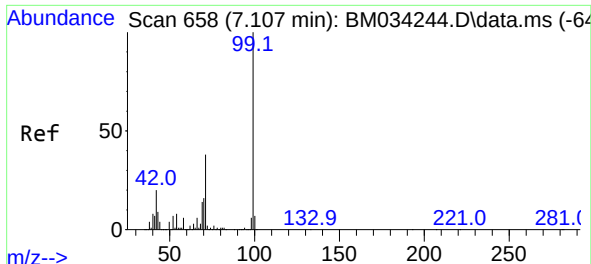
Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022



#5
2-Fluorophenol
Concen: 138.216 ng
RT: 5.496 min Scan# 384
Delta R.T. -0.006 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

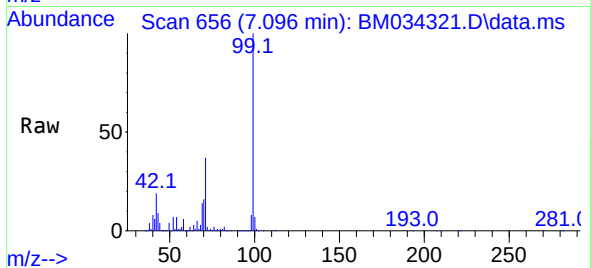
Tgt Ion:112 Resp: 1239245
Ion Ratio Lower Upper
112 100
64 61.3 47.9 71.9
63 32.7 27.1 40.7





#7
Phenol-d6
Concen: 122.964 ng
RT: 7.096 min Scan# 61
Delta R.T. -0.012 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

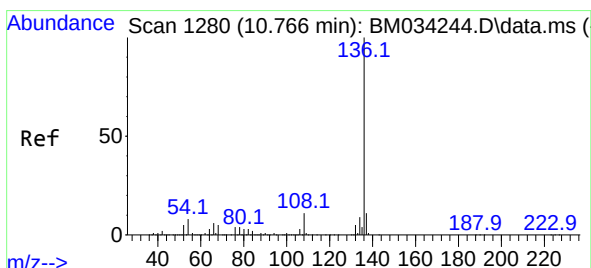
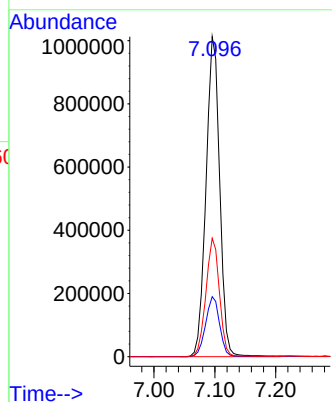
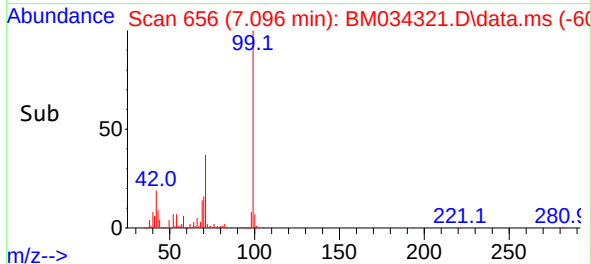
Instrument :
BNA_M
ClientSampleId :
C-16-15-16



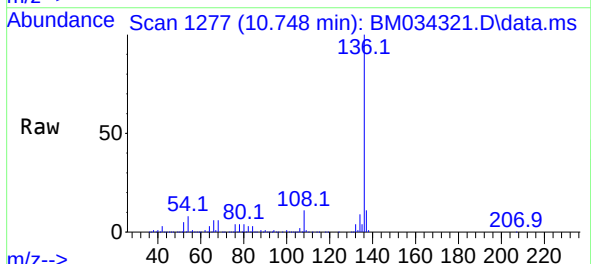
Tgt Ion: 99 Resp: 1578519
Ion Ratio Lower Upper
99 100
42 18.8 15.6 23.4
71 37.0 30.6 46.0

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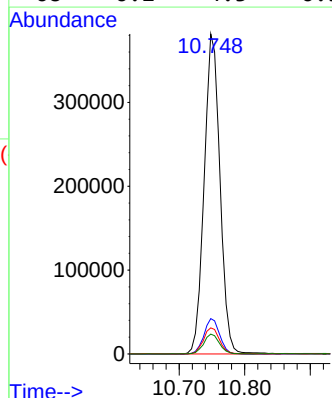
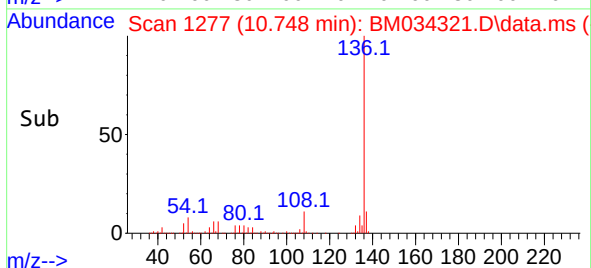
Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022

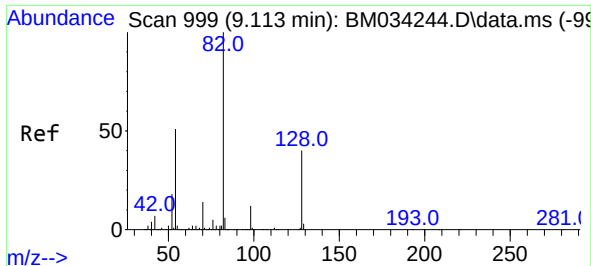


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.748 min Scan# 1277
Delta R.T. -0.018 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52



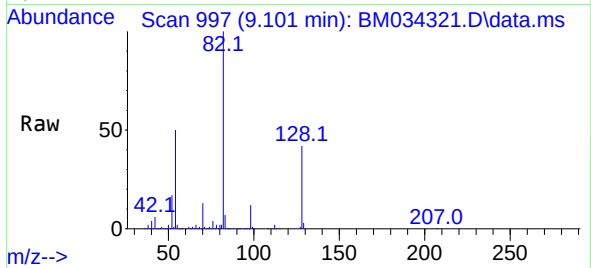
Tgt Ion:136 Resp: 641244
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 8.1 6.2 9.4
68 6.2 4.3 6.5





#23
Nitrobenzene-d5
Concen: 78.983 ng
RT: 9.101 min Scan# 91
Delta R.T. -0.012 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

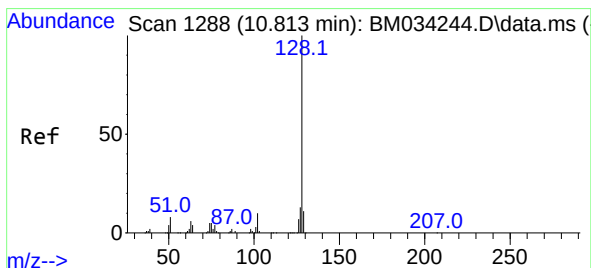
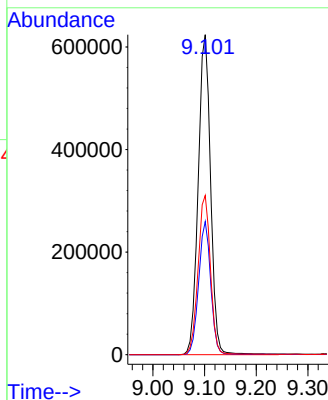
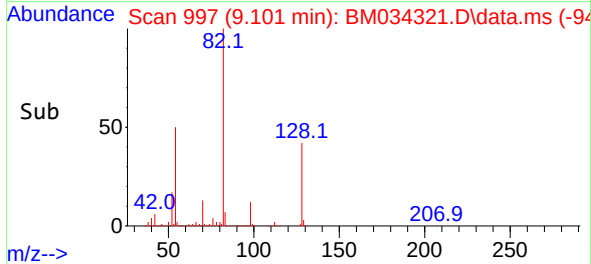
Instrument :
BNA_M
ClientSampleId :
C-16-15-16



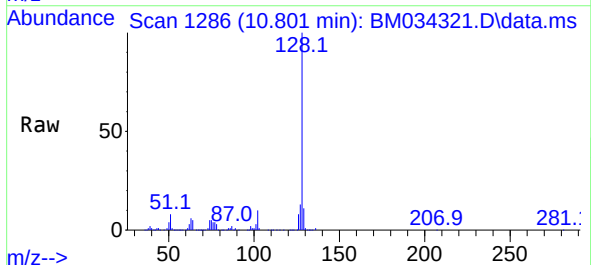
Tgt Ion: 82 Resp: 104027
Ion Ratio Lower Upper
82 100
128 41.6 31.9 47.9
54 49.8 40.6 61.0

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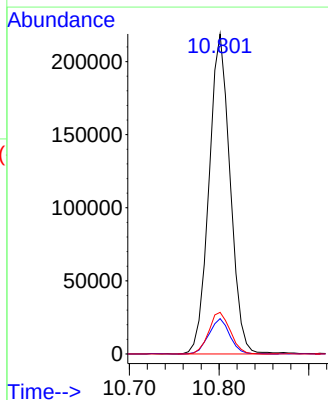
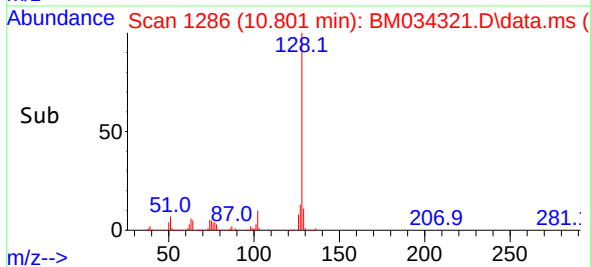
Reviewed By :Christian Giraldo 03/23/2022
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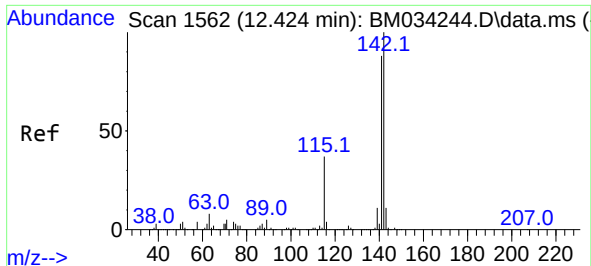


#31
Naphthalene
Concen: 10.694 ng
RT: 10.801 min Scan# 1286
Delta R.T. -0.012 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52



Tgt Ion:128 Resp: 357266
Ion Ratio Lower Upper
128 100
129 11.1 8.8 13.2
127 13.0 10.2 15.4





#37

2-Methylnaphthalene

Concen: 4.596 ng

RT: 12.407 min Scan# 1559

Delta R.T. -0.018 min

Lab File: BM034321.D

Acq: 22 Mar 2022 21:52

Instrument :

BNA_M

ClientSampleId :

C-16-15-16

Tgt Ion:142 Resp: 109549

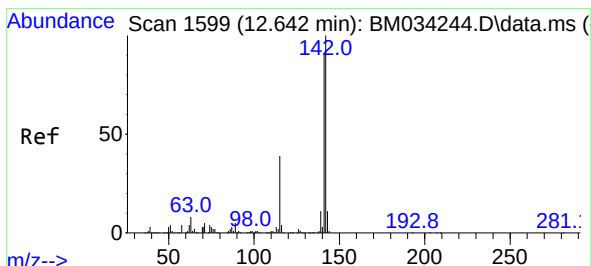
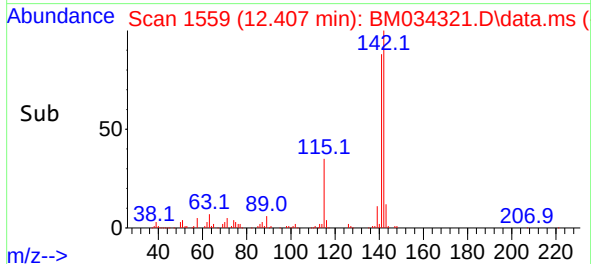
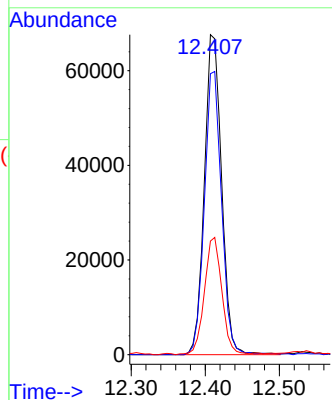
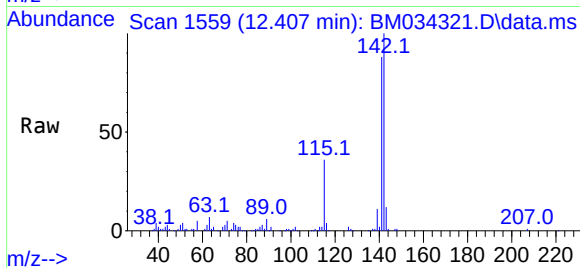
Ion	Ratio	Lower	Upper
142	100		
141	87.8	70.1	105.1
115	35.5	29.9	44.9

Manual Integrations

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Reviewed By :Christian Giraldo 03/23/2022

Supervised By :Jagrut Upadhyay 03/23/2022



#38

1-Methylnaphthalene

Concen: 4.690 ng

RT: 12.630 min Scan# 1597

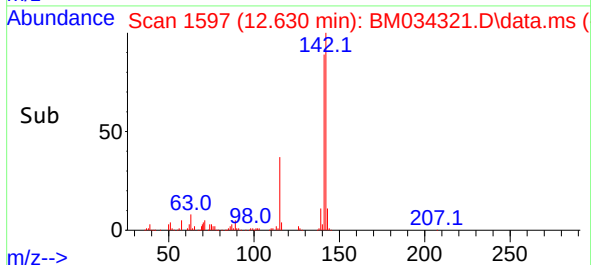
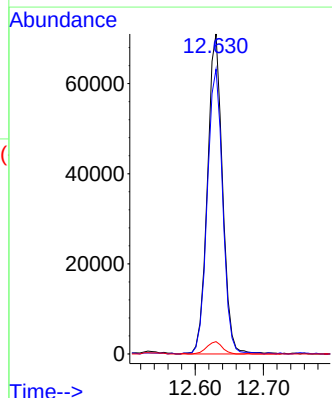
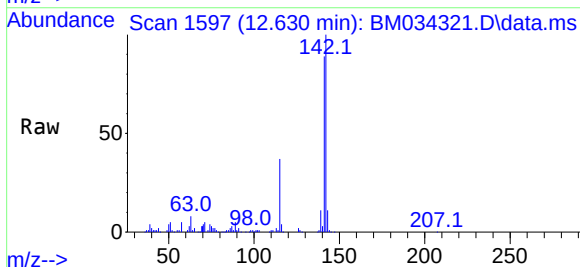
Delta R.T. -0.012 min

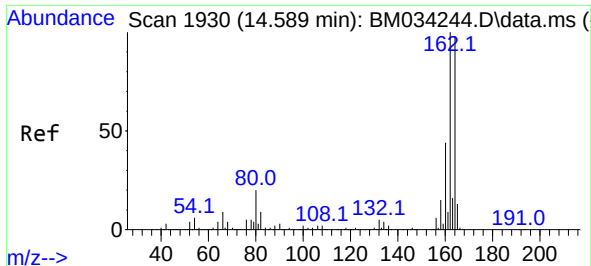
Lab File: BM034321.D

Acq: 22 Mar 2022 21:52

Tgt Ion:142 Resp: 109365

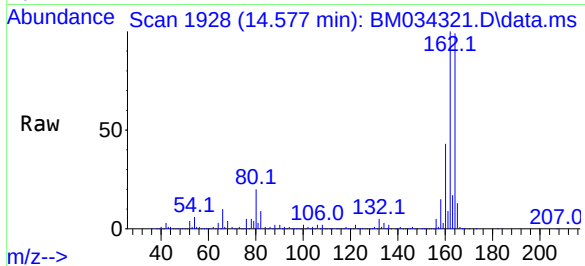
Ion	Ratio	Lower	Upper
142	100		
141	89.0	73.0	109.6
116	3.8	3.2	4.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.577 min Scan# 1930
Delta R.T. -0.012 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

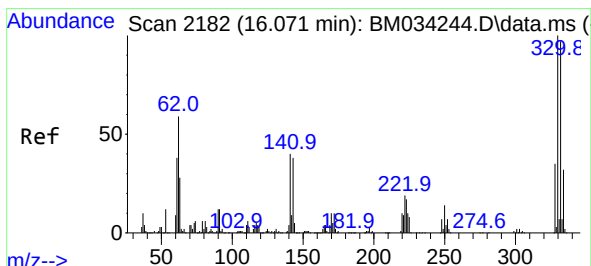
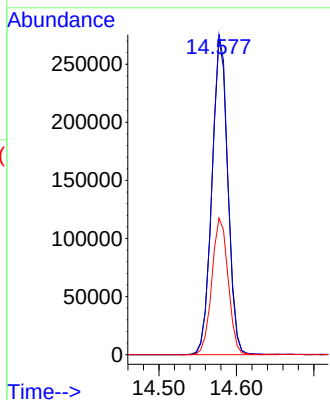
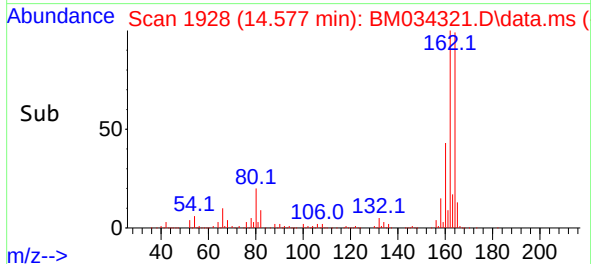
Instrument :
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ClientSampleId :
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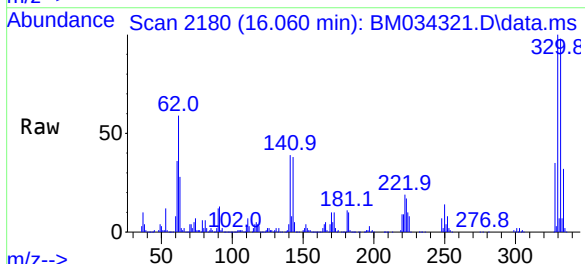
Tgt Ion:164 Resp: 38698
Ion Ratio Lower Upper
164 100
162 100.9 81.6 122.4
160 43.0 35.6 53.4

Manual Integrations
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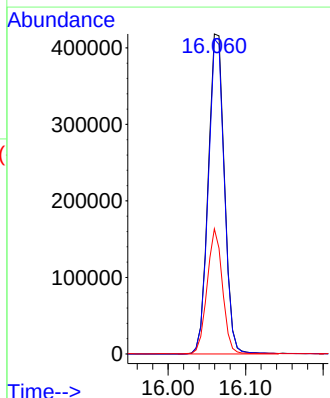
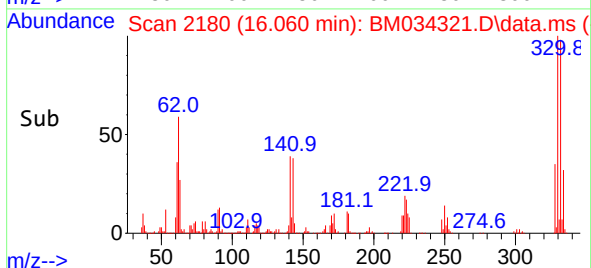
Reviewed By :Christian Giraldo 03/23/2022
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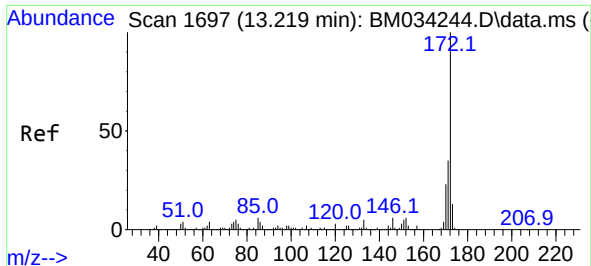


#42
2,4,6-Tribromophenol
Concen: 116.452 ng
RT: 16.060 min Scan# 2180
Delta R.T. -0.012 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52



Tgt Ion:330 Resp: 607417
Ion Ratio Lower Upper
330 100
332 97.5 78.2 117.4
141 36.8 30.6 45.8





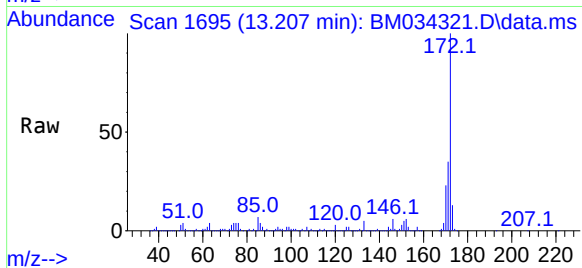
#45
2-Fluorobiphenyl
Concen: 75.471 ng
RT: 13.207 min Scan# 1
Delta R.T. -0.012 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

Instrument :

BNA_M

ClientSampleId :

C-16-15-16

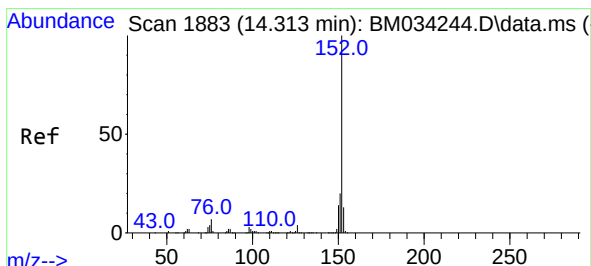
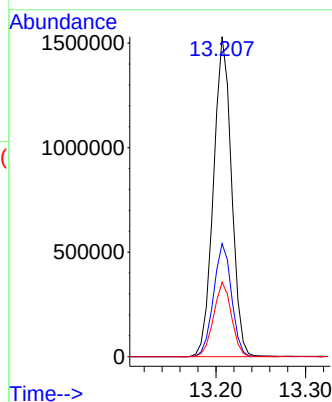
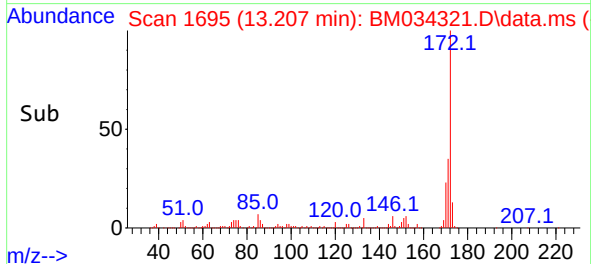


Tgt Ion:172 Resp: 2137279
Ion Ratio Lower Upper
172 100
171 35.4 28.0 42.0
170 23.3 18.6 28.0

Manual Integrations

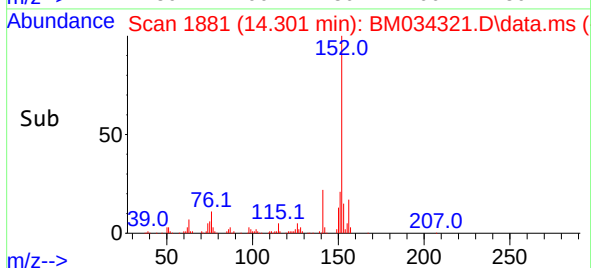
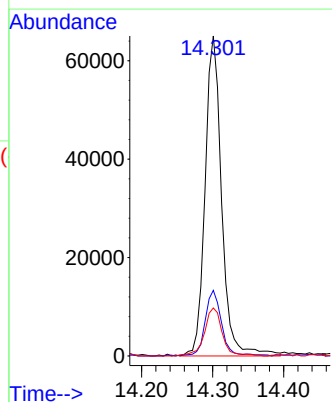
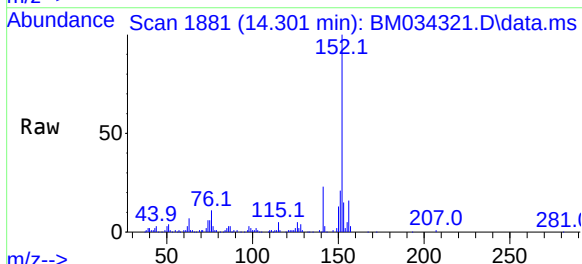
APPROVED

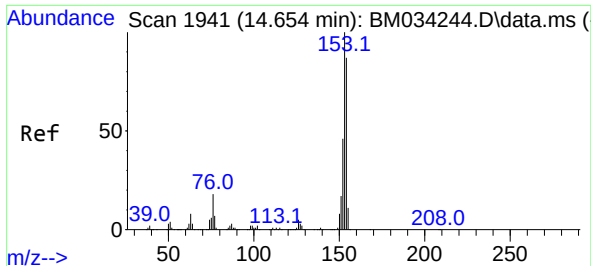
Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022



#49
Acenaphthylene
Concen: 3.001 ng
RT: 14.301 min Scan# 1881
Delta R.T. -0.012 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

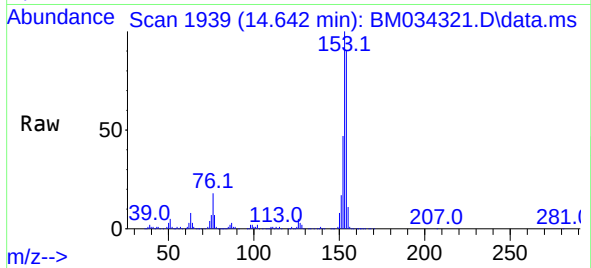
Tgt Ion:152 Resp: 105953
Ion Ratio Lower Upper
152 100
151 20.5 15.9 23.9
153 15.0 10.6 16.0





#52
Acenaphthene
Concen: 6.855 ng
RT: 14.642 min Scan# 1941
Delta R.T. -0.012 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

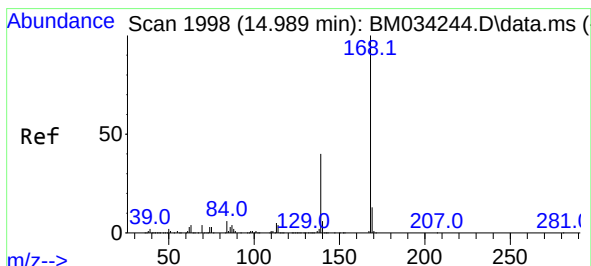
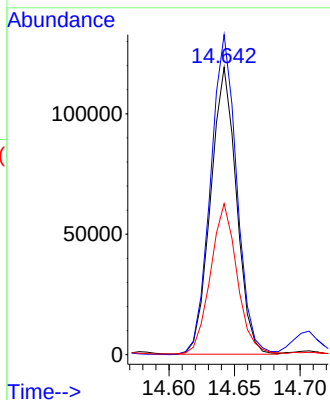
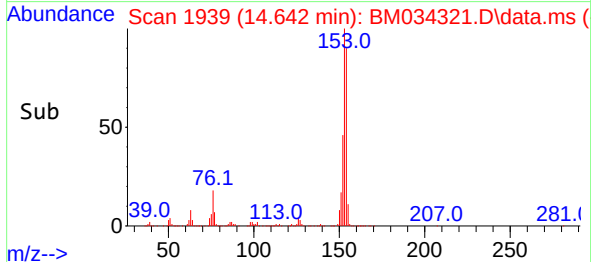
Instrument :
BNA_M
ClientSampleId :
C-16-15-16



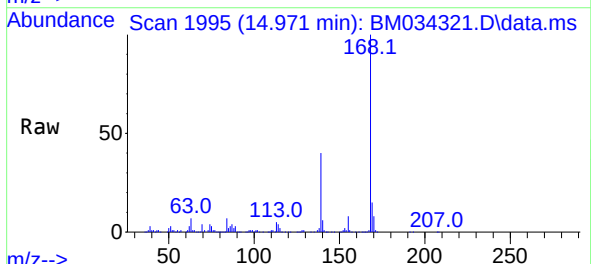
Tgt Ion:154 Resp: 162990
Ion Ratio Lower Upper
154 100
153 111.4 91.8 137.8
152 52.6 42.6 64.0

Manual Integrations
APPROVED

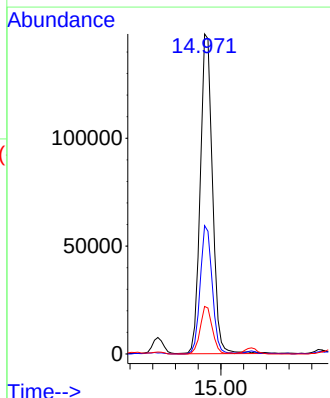
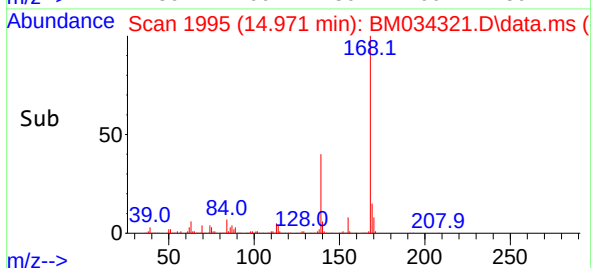
Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022

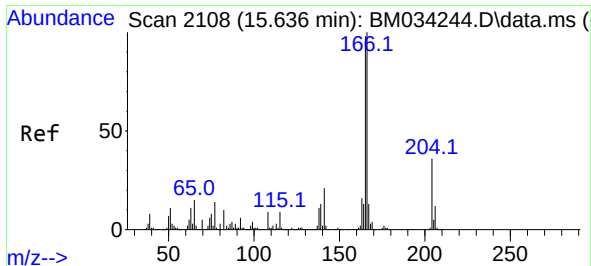


#55
Dibenzofuran
Concen: 6.261 ng
RT: 14.971 min Scan# 1995
Delta R.T. -0.018 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52



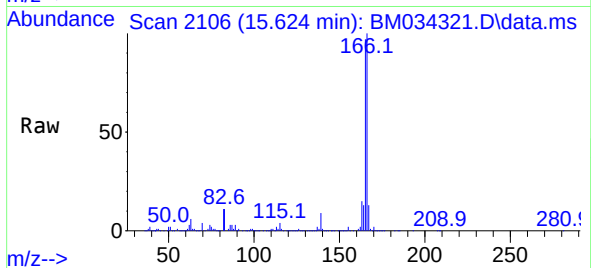
Tgt Ion:168 Resp: 221865
Ion Ratio Lower Upper
168 100
139 40.1 32.4 48.6
169 14.8 10.8 16.2





#58
Fluorene
Concen: 12.174 ng
RT: 15.624 min Scan# 2106
Delta R.T. -0.012 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

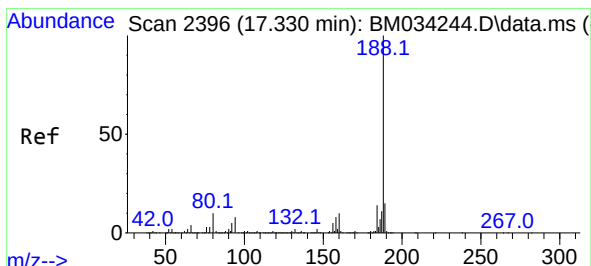
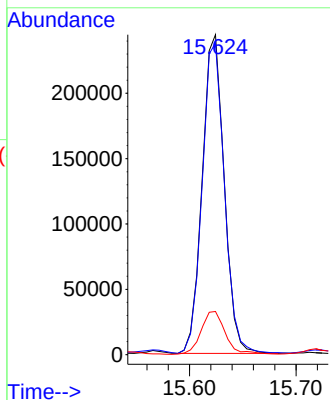
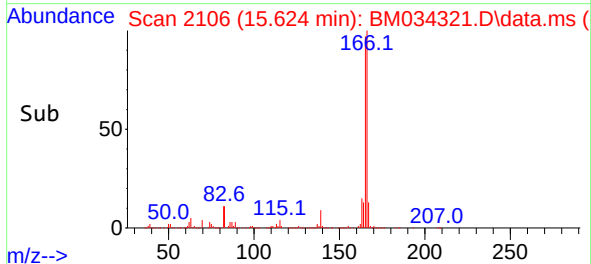
Instrument :
BNA_M
ClientSampleId :
C-16-15-16



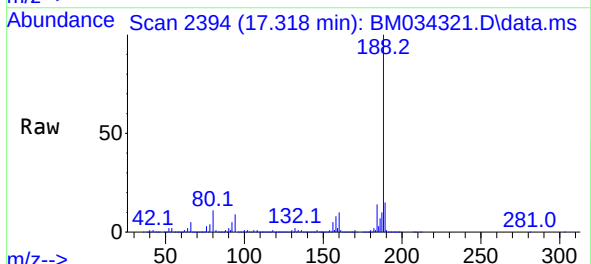
Tgt Ion:166 Resp: 350214
Ion Ratio Lower Upper
166 100
165 97.4 78.0 117.0
167 13.5 10.5 15.7

Manual Integrations
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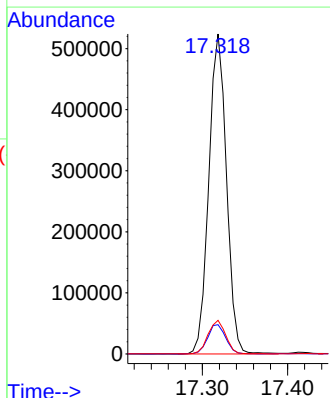
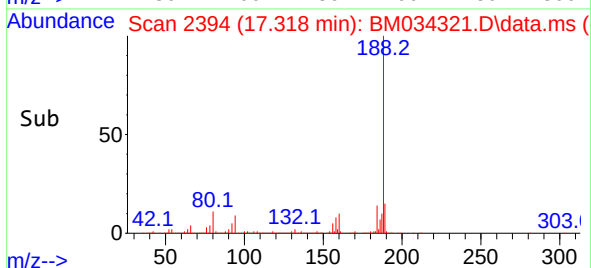
Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022

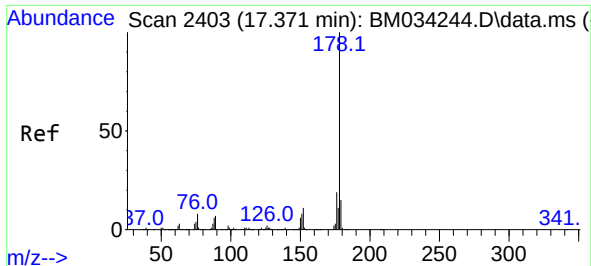


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.318 min Scan# 2394
Delta R.T. -0.012 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52



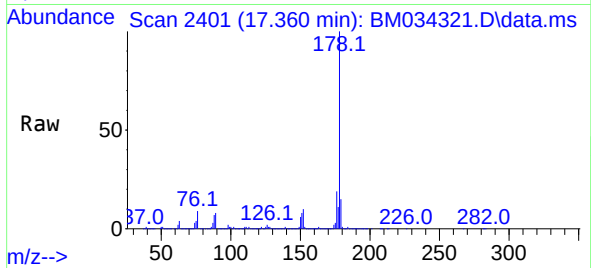
Tgt Ion:188 Resp: 755172
Ion Ratio Lower Upper
188 100
94 9.1 6.6 9.8
80 10.5 7.8 11.8





#71
Phenanthrene
Concen: 69.528 ng
RT: 17.360 min Scan# 2403
Delta R.T. -0.012 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

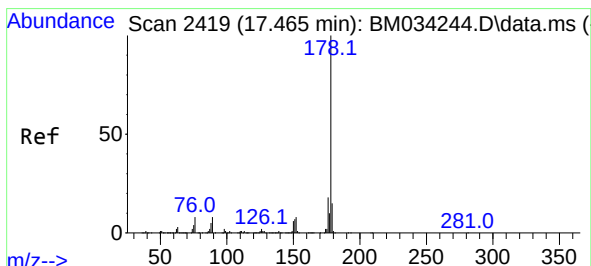
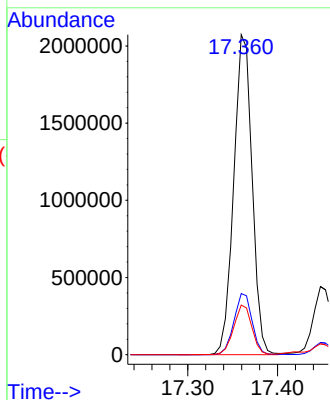
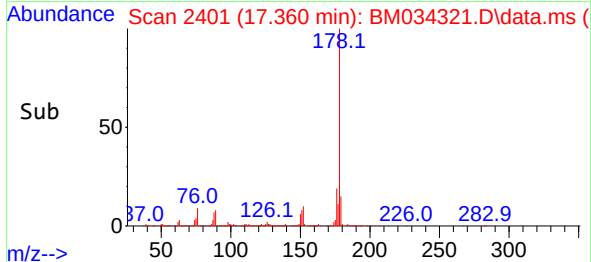
Instrument :
BNA_M
ClientSampleId :
C-16-15-16



Tgt Ion:178 Resp: 2940409
Ion Ratio Lower Upper
178 100
176 19.1 15.1 22.7
179 15.5 12.2 18.4

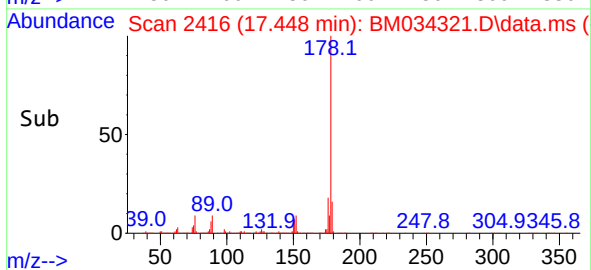
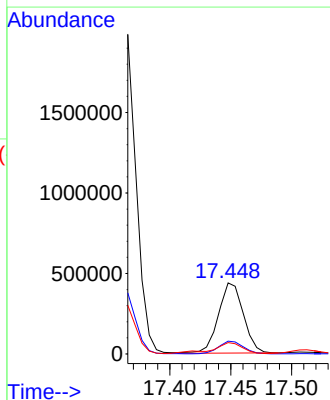
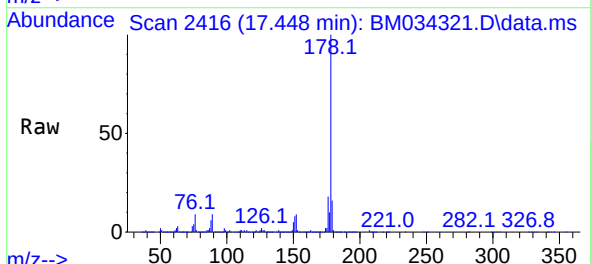
Manual Integrations
APPROVED

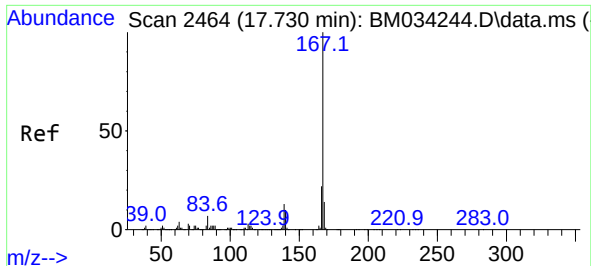
Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022



#72
Anthracene
Concen: 15.050 ng
RT: 17.448 min Scan# 2416
Delta R.T. -0.018 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

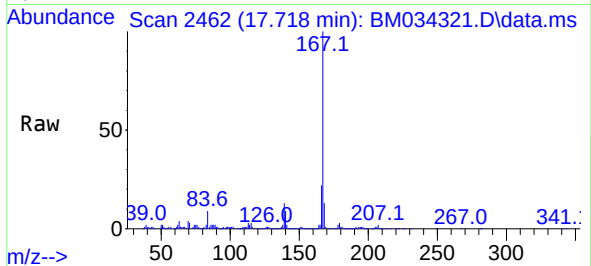
Tgt Ion:178 Resp: 619508
Ion Ratio Lower Upper
178 100
176 17.9 14.6 22.0
179 16.0 12.2 18.2





#73
 Carbazole
 Concen: 6.419 ng
 RT: 17.718 min Scan# 2464
 Delta R.T. -0.012 min
 Lab File: BM034321.D
 Acq: 22 Mar 2022 21:52

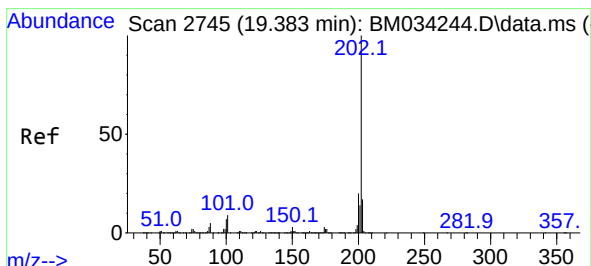
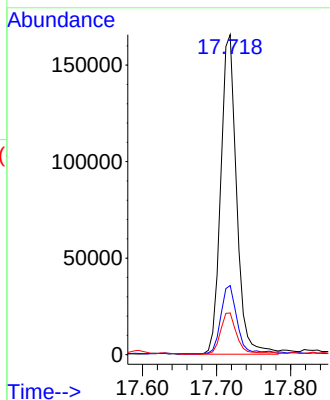
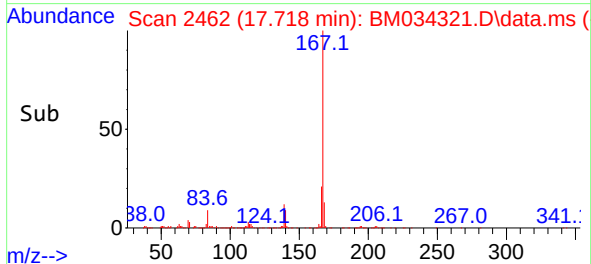
Instrument :
 BNA_M
 ClientSampleId :
 C-16-15-16



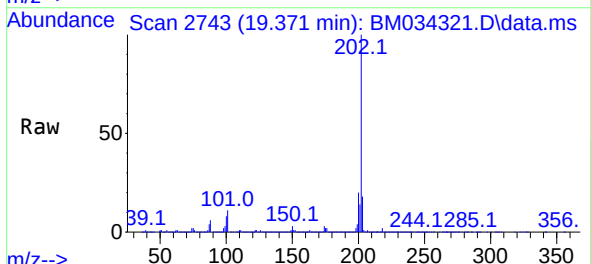
Tgt Ion:167 Resp: 246409
 Ion Ratio Lower Upper
 167 100
 166 21.6 17.4 26.2
 139 13.1 10.4 15.6

Manual Integrations
 APPROVED

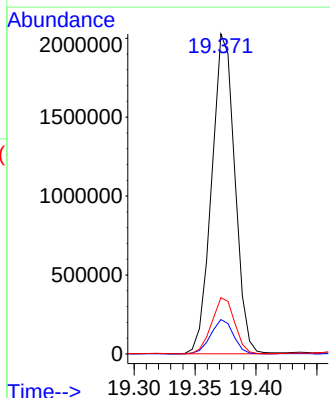
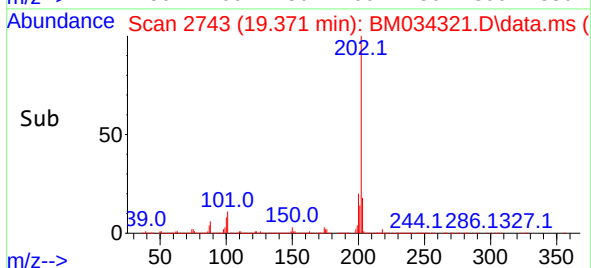
Reviewed By :Christian Giraldo 03/23/2022
 Supervised By :Jagrut Upadhyay 03/23/2022

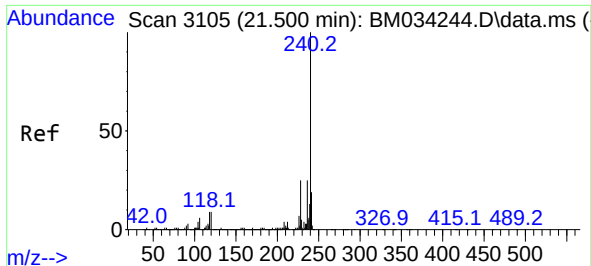


#75
 Fluoranthene
 Concen: 56.584 ng
 RT: 19.371 min Scan# 2743
 Delta R.T. -0.012 min
 Lab File: BM034321.D
 Acq: 22 Mar 2022 21:52



Tgt Ion:202 Resp: 2682608
 Ion Ratio Lower Upper
 202 100
 101 10.8 0.0 29.4
 203 17.6 0.0 37.1





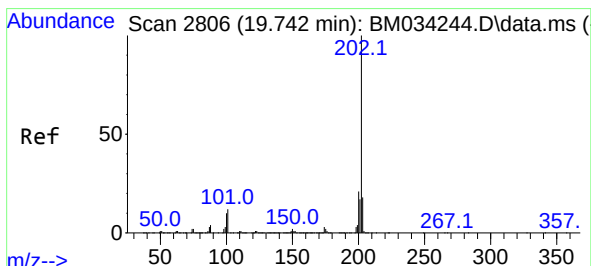
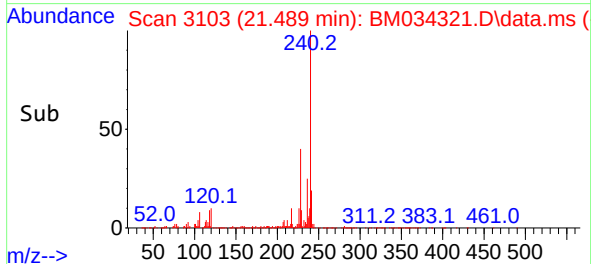
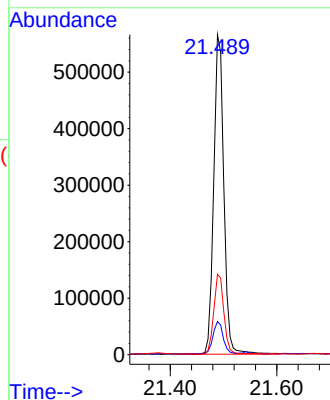
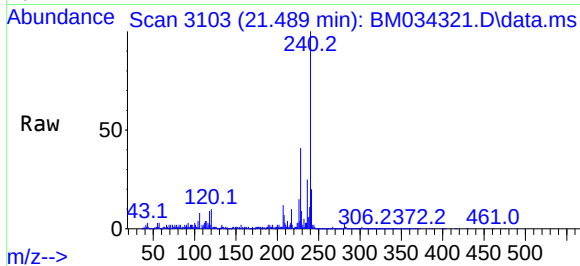
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.489 min Scan# 3105
Delta R.T. -0.012 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

Instrument :
BNA_M
ClientSampleId :
C-16-15-16

Tgt Ion:240 Resp: 747375
Ion Ratio Lower Upper
240 100
120 10.4 7.3 10.9
236 25.1 20.2 30.2

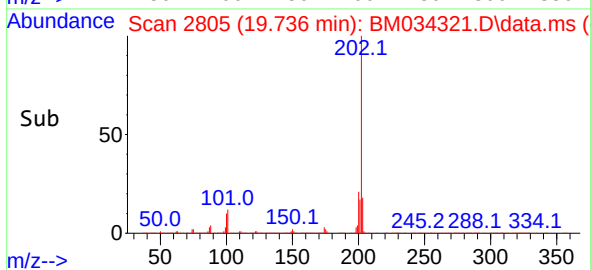
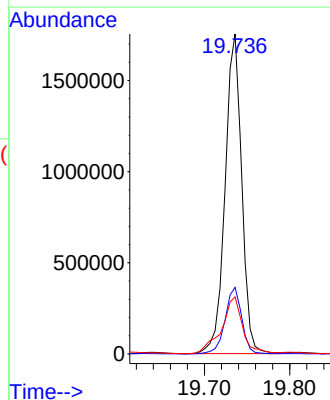
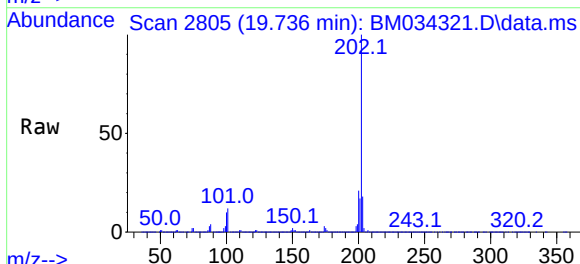
Manual Integrations
APPROVED

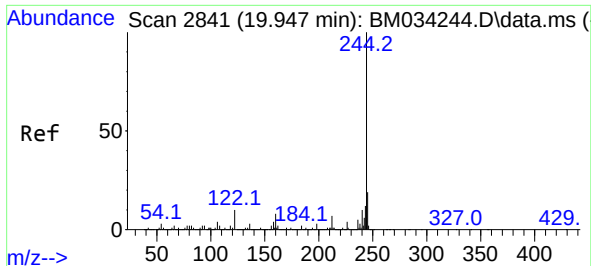
Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022



#78
Pyrene
Concen: 45.098 ng
RT: 19.736 min Scan# 2805
Delta R.T. -0.006 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

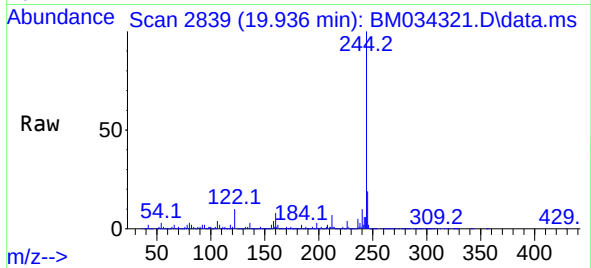
Tgt Ion:202 Resp: 2374709
Ion Ratio Lower Upper
202 100
200 20.8 16.6 24.8
203 17.9 14.1 21.1





#79
Terphenyl-d14
Concen: 70.715 ng
RT: 19.936 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

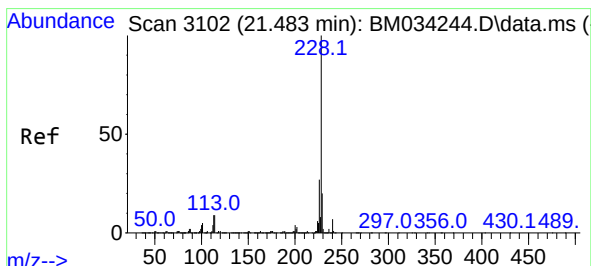
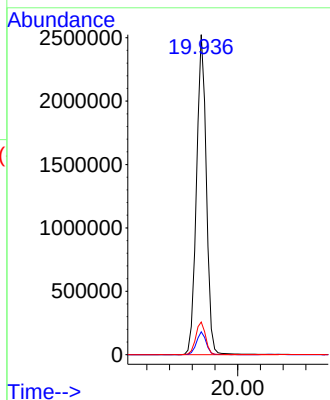
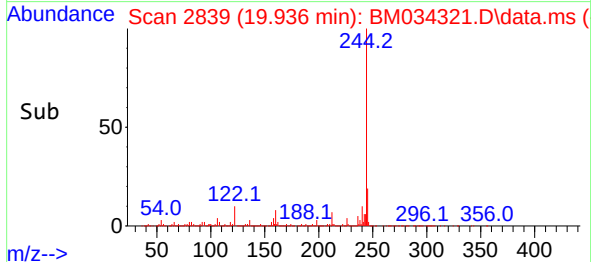
Instrument :
BNA_M
ClientSampleId :
C-16-15-16



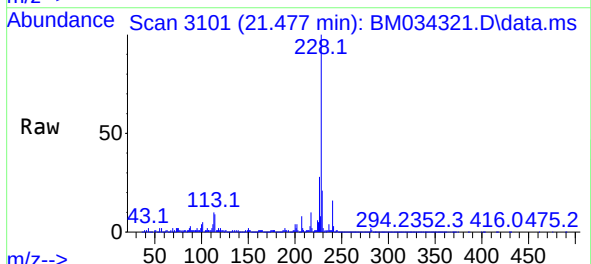
Tgt Ion:244 Resp: 304156
Ion Ratio Lower Upper
244 100
212 7.1 5.9 8.9
122 10.2 7.8 11.8

Manual Integrations
APPROVED

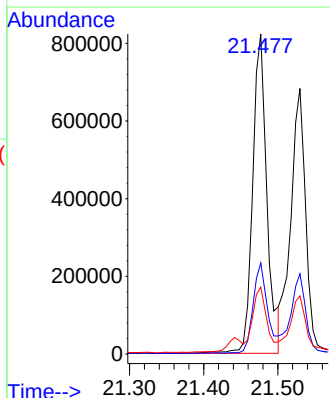
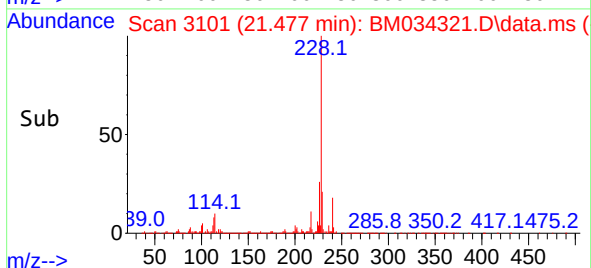
Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022

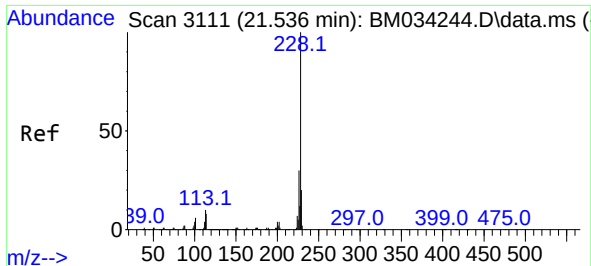


#81
Benzo(a)anthracene
Concen: 23.307 ng
RT: 21.477 min Scan# 3101
Delta R.T. -0.006 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52



Tgt Ion:228 Resp: 1099442
Ion Ratio Lower Upper
228 100
226 28.4 21.6 32.4
229 20.9 15.8 23.6





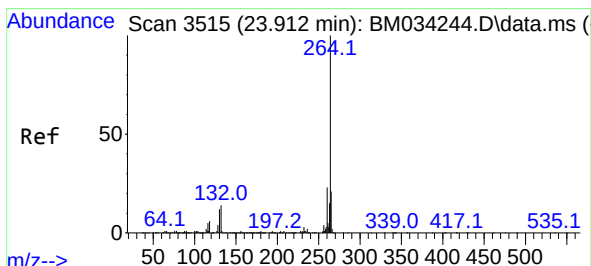
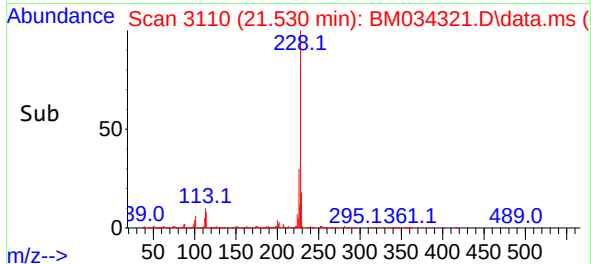
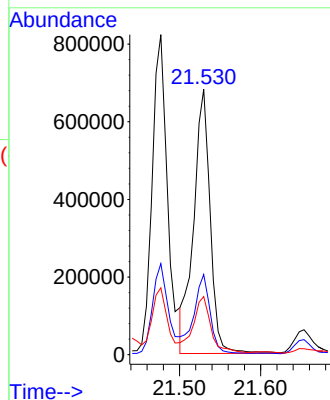
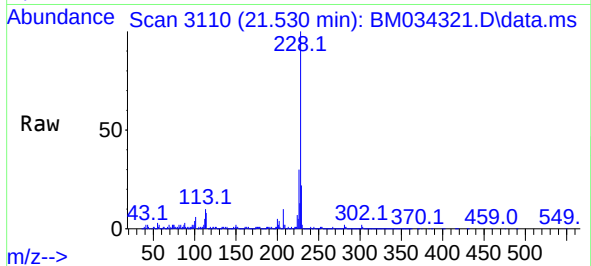
#83
Chrysene
Concen: 20.165 ng
RT: 21.530 min Scan# 3111
Delta R.T. -0.006 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

Instrument :
BNA_M
ClientSampleId :
C-16-15-16

Tgt Ion:228 Resp: 971359
Ion Ratio Lower Upper
228 100
226 30.2 23.8 35.6
229 21.9 15.6 23.4

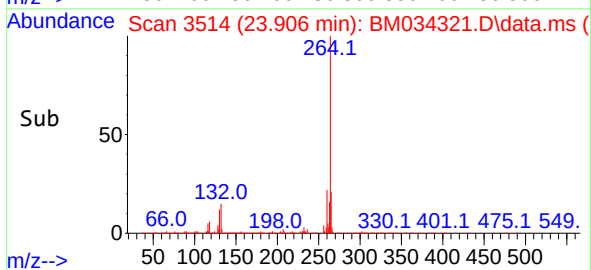
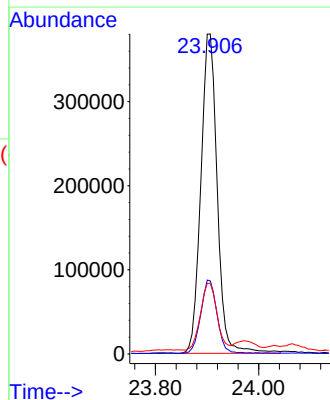
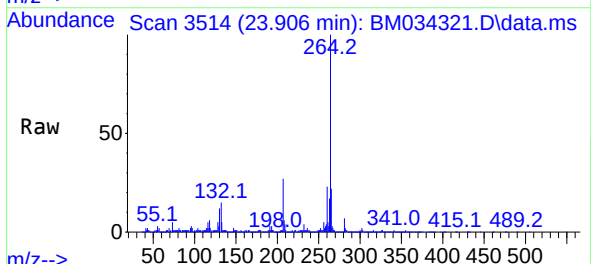
Manual Integrations
APPROVED

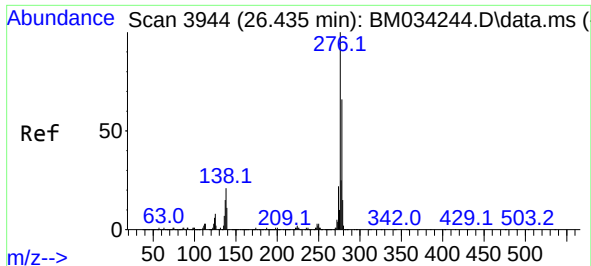
Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.906 min Scan# 3514
Delta R.T. -0.006 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

Tgt Ion:264 Resp: 837605
Ion Ratio Lower Upper
264 100
260 22.9 18.6 28.0
265 22.1 17.6 26.4





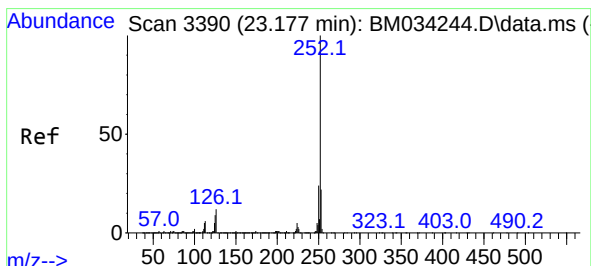
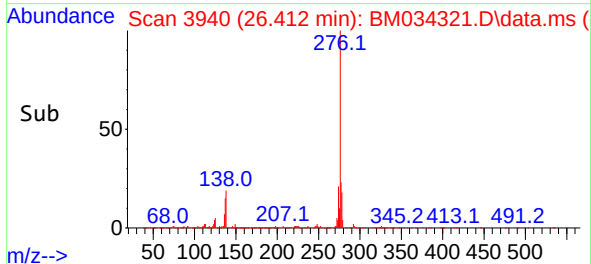
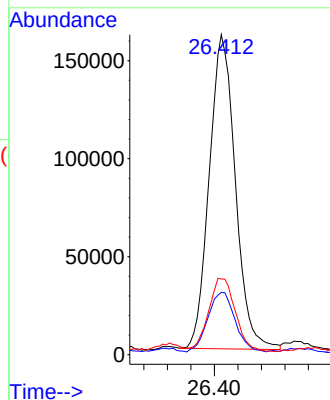
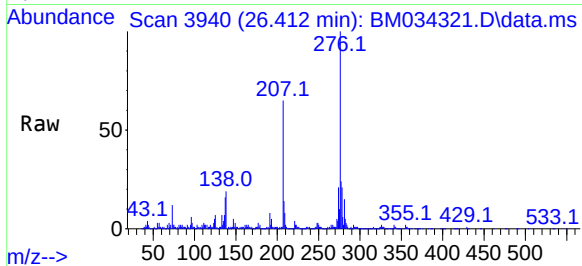
#87
Indeno(1,2,3-cd)pyrene
Concen: 9.185 ng
RT: 26.412 min Scan# 3944
Delta R.T. -0.023 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

Instrument :
BNA_M
ClientSampleId :
C-16-15-16

Tgt Ion:276 Resp: 494892
Ion Ratio Lower Upper
276 100
138 19.8 16.6 25.0
277 24.1 19.8 29.6

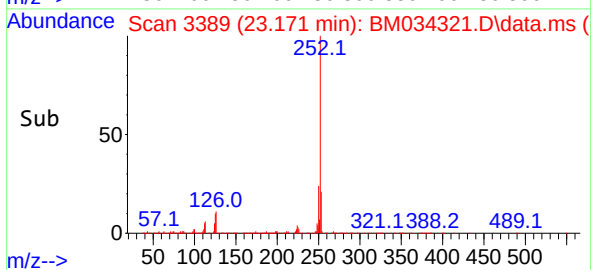
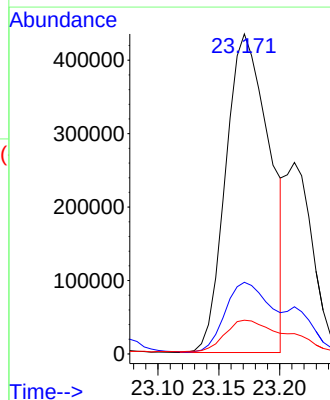
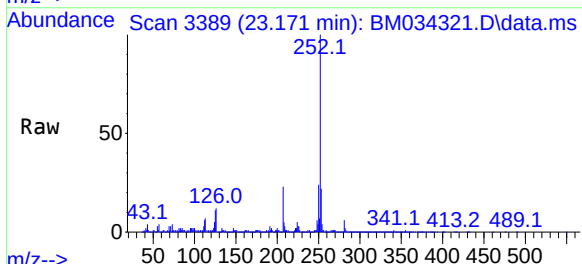
Manual Integrations
APPROVED

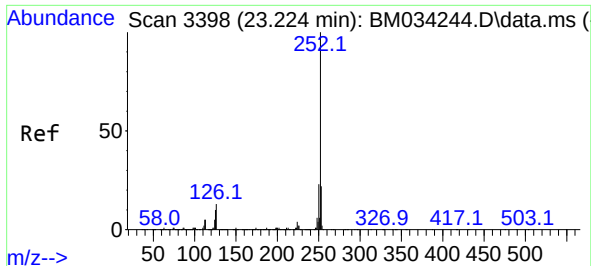
Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022



#88
Benzo(b)fluoranthene
Concen: 21.713 ng
RT: 23.171 min Scan# 3389
Delta R.T. -0.006 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

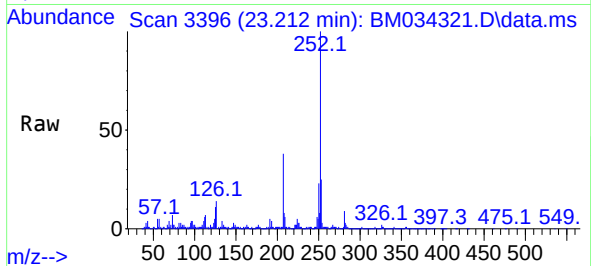
Tgt Ion:252 Resp: 1087517
Ion Ratio Lower Upper
252 100
253 22.4 17.8 26.8
125 10.6 7.2 10.8





#89
Benzo(k)fluoranthene
Concen: 7.518 ng m
RT: 23.212 min Scan# 31
Delta R.T. -0.012 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

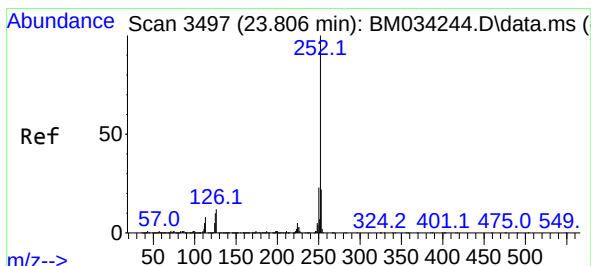
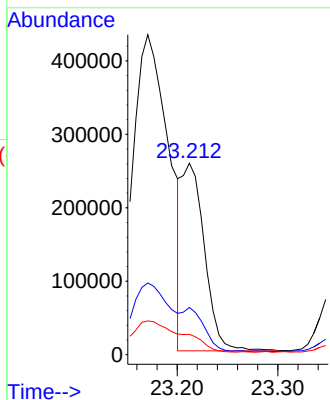
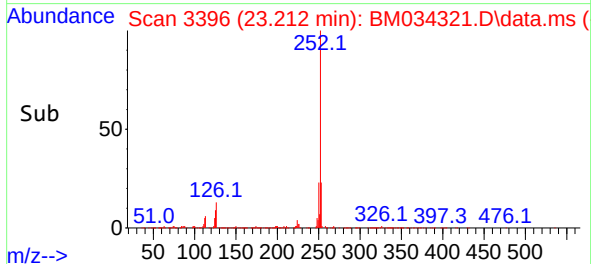
Instrument :
BNA_M
ClientSampleId :
C-16-15-16



Tgt Ion:252 Resp: 398878
Ion Ratio Lower Upper
252 100
253 24.6 17.6 26.4
125 10.6 7.5 11.3

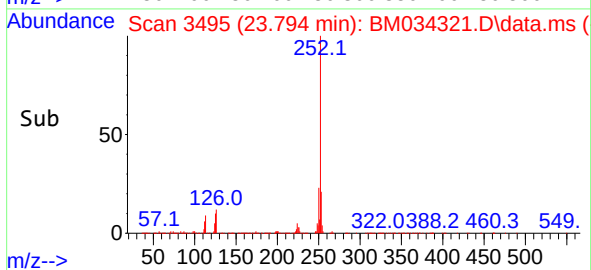
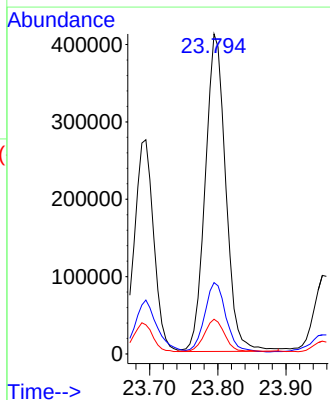
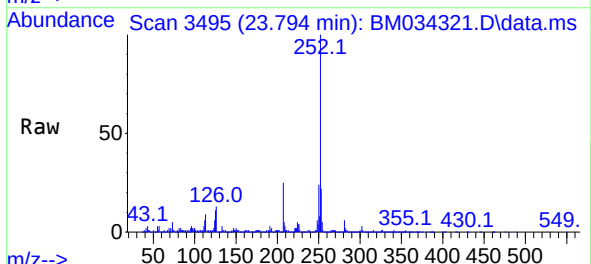
Manual Integrations
APPROVED

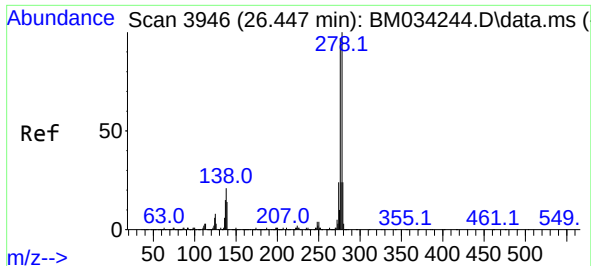
Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022



#90
Benzo(a)pyrene
Concen: 20.249 ng
RT: 23.794 min Scan# 3495
Delta R.T. -0.012 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

Tgt Ion:252 Resp: 859773
Ion Ratio Lower Upper
252 100
253 22.3 17.5 26.3
125 10.9 7.8 11.6





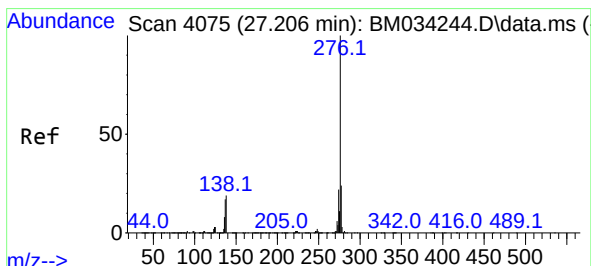
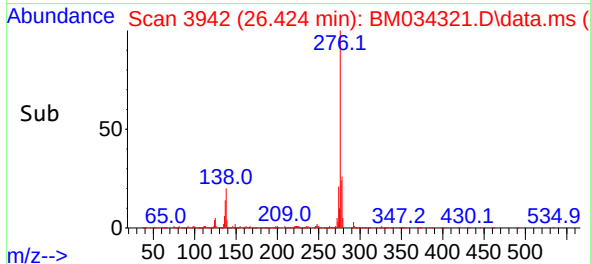
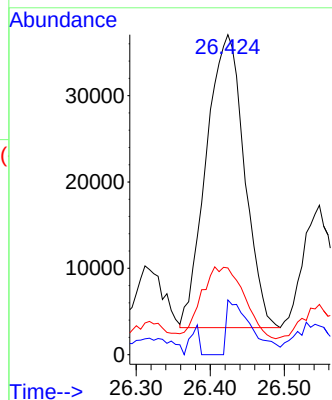
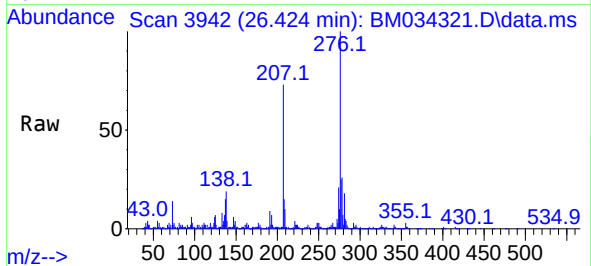
#91
Dibenzo(a,h)anthracene
Concen: 2.779 ng
RT: 26.424 min Scan# 3946
Delta R.T. -0.023 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

Instrument :
BNA_M
ClientSampleId :
C-16-15-16

Tgt Ion:278 Resp: 121400
Ion Ratio Lower Upper
278 100
139 17.1 11.2 16.8
279 27.1 19.2 28.8

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 03/23/2022
Supervised By :Jagrut Upadhyay 03/23/2022



#92
Benzo(g,h,i)perylene
Concen: 10.911 ng
RT: 27.188 min Scan# 4072
Delta R.T. -0.018 min
Lab File: BM034321.D
Acq: 22 Mar 2022 21:52

Tgt Ion:276 Resp: 493400
Ion Ratio Lower Upper
276 100
277 24.2 19.0 28.4
138 20.3 15.6 23.4

