

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091223\
 Data File : BF135214.D
 Acq On : 13 Sep 2023 09:14
 Operator : CG\JU
 Sample : 04299-04
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-02-COMP

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 09/13/2023
 Supervised By :mohammad ahmed 09/14/2023

Quant Time: Sep 13 12:09:36 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 12 00:19:07 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.763	152	113619	20.000	ng	0.00
21) Naphthalene-d8	8.039	136	427284	20.000	ng	0.00
39) Acenaphthene-d10	9.798	164	186205	20.000	ng	0.00
64) Phenanthrene-d10	11.292	188	259272	20.000	ng	0.00
76) Chrysene-d12	13.951	240	195333	20.000	ng	0.00
86) Perylene-d12	15.421	264	185516	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.393	112	588243	84.207	ng	0.00
7) Phenol-d6	6.404	99	739254	83.224	ng	0.00
23) Nitrobenzene-d5	7.328	82	438535	55.760	ng	0.00
42) 2,4,6-Tribromophenol	10.592	330	128046	69.198	ng	0.00
45) 2-Fluorobiphenyl	9.122	172	733780	59.454	ng	0.00
79) Terphenyl-d14	12.886	244	514026	40.794	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.063	128	649406	31.281	ng	99
37) 2-Methylnaphthalene	8.757	142	227198	16.281	ng	98
38) 1-Methylnaphthalene	8.857	142	149343	11.431	ng	100
46) 1,1'-Biphenyl	9.222	154	47825	3.342	ng	97
52) Acenaphthene	9.833	154	315617	30.963	ng	99
55) Dibenzofuran	10.004	168	371198	23.864	ng	97
58) Fluorene	10.351	166	465722	38.947	ng	99
71) Phenanthrene	11.327	178	2205764	179.880	ng	98
72) Anthracene	11.374	178	649714	51.546	ng	99
73) Carbazole	11.527	167	188174	16.400	ng	98
75) Fluoranthene	12.521	202	1566931	122.633	ng	98
78) Pyrene	12.751	202	1615701	86.879	ng	99
81) Benzo(a)anthracene	13.945	228	741980	58.826	ng	97
83) Chrysene	13.980	228	614000	48.962	ng	97
87) Indeno(1,2,3-cd)pyrene	16.892	276	190502	15.662	ng	98
88) Benzo(b)fluoranthene	14.998	252	546789m	54.447	ng	
89) Benzo(k)fluoranthene	15.021	252	202634m	20.426	ng	
90) Benzo(a)pyrene	15.362	252	440320	45.977	ng	98
91) Dibenzo(a,h)anthracene	16.904	278	51850	5.210	ng #	93
92) Benzo(g,h,i)perylene	17.339	276	171541	16.504	ng	99

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

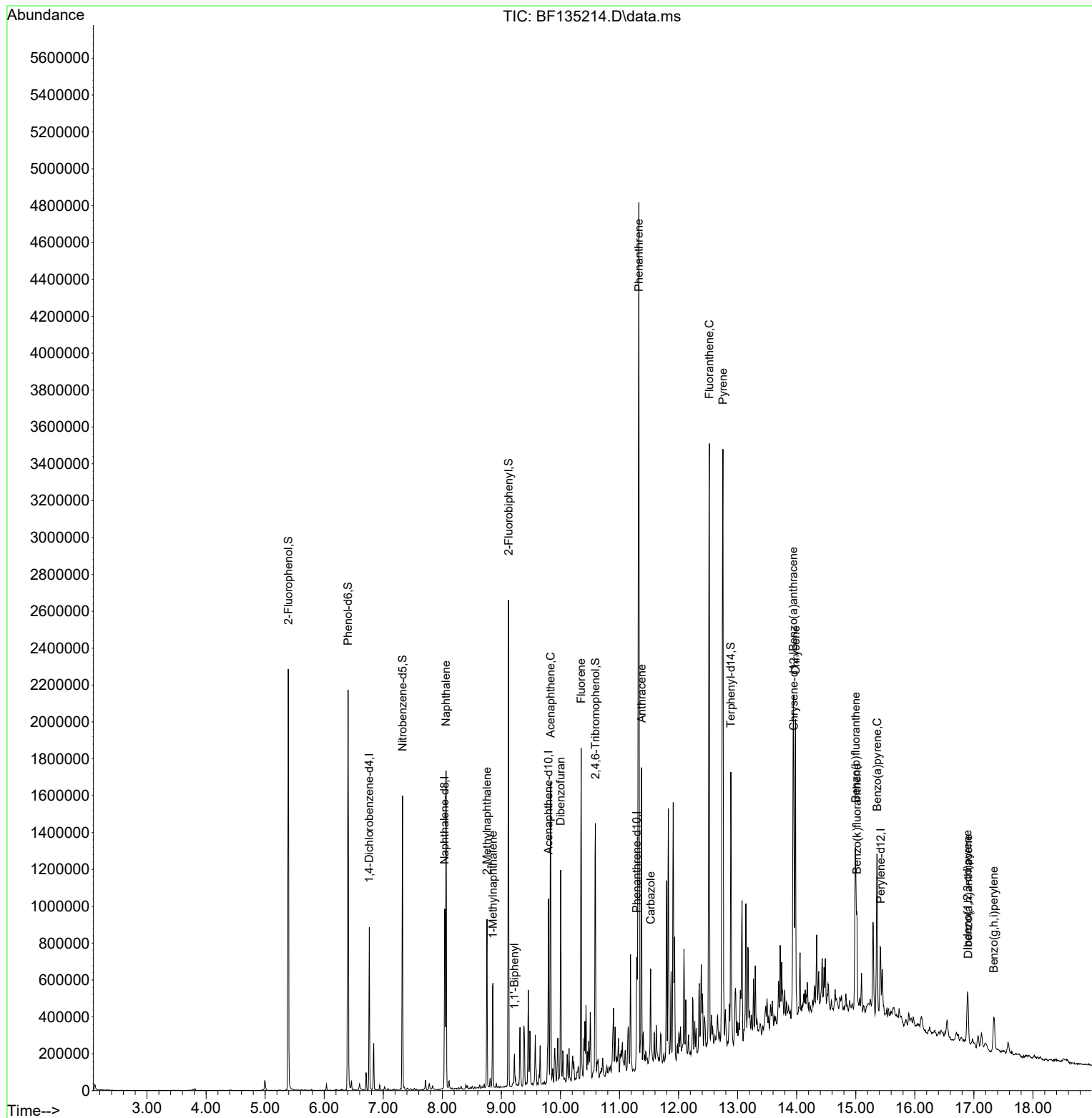
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091223\
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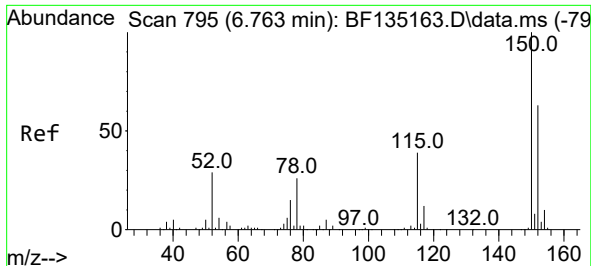
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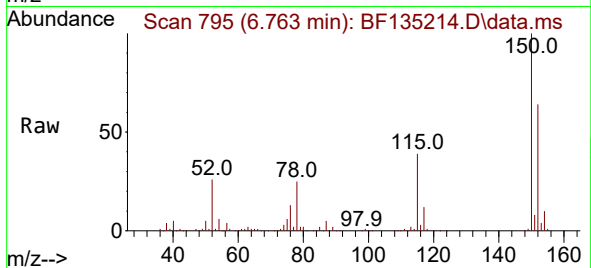
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.763 min Scan# 795
Delta R.T. 0.000 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14

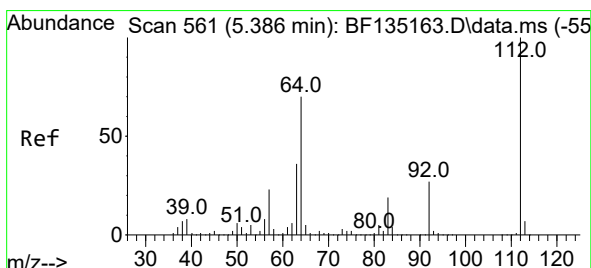
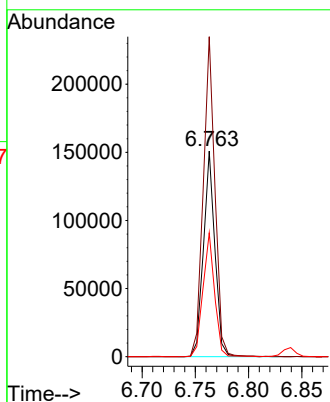
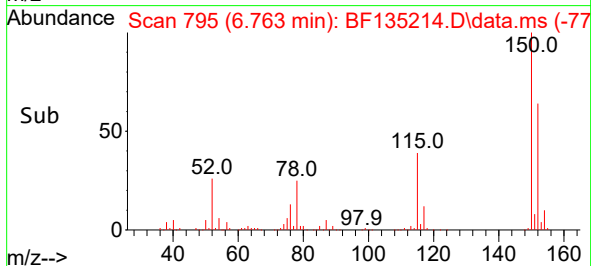
Instrument :
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ClientSampleId :
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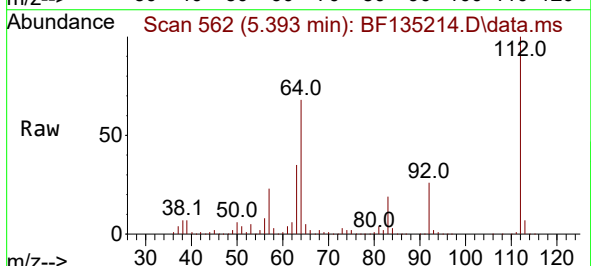
Tgt Ion:152 Resp: 113619
Ion Ratio Lower Upper
152 100
150 155.6 127.8 191.6
115 60.2 49.8 74.8

Manual Integrations
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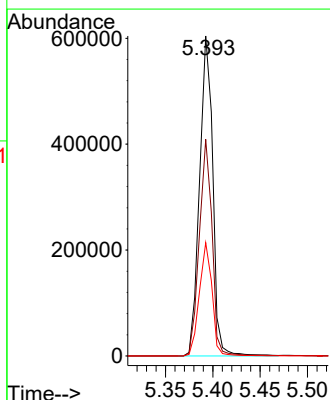
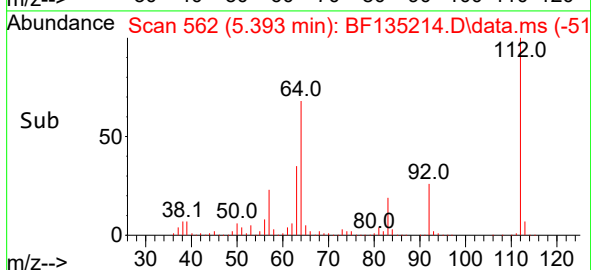
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023

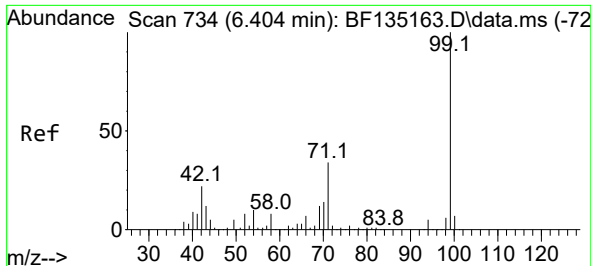


#5
2-Fluorophenol
Concen: 84.207 ng
RT: 5.393 min Scan# 562
Delta R.T. 0.006 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14



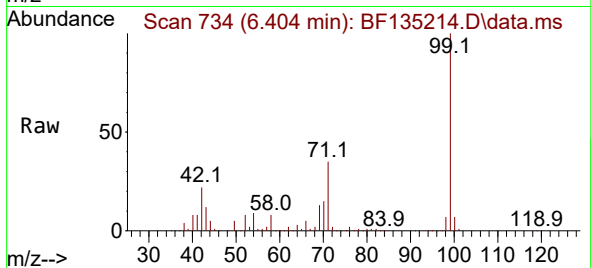
Tgt Ion:112 Resp: 588243
Ion Ratio Lower Upper
112 100
64 67.7 55.9 83.9
63 35.4 29.0 43.6





#7
Phenol-d6
Concen: 83.224 ng
RT: 6.404 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14

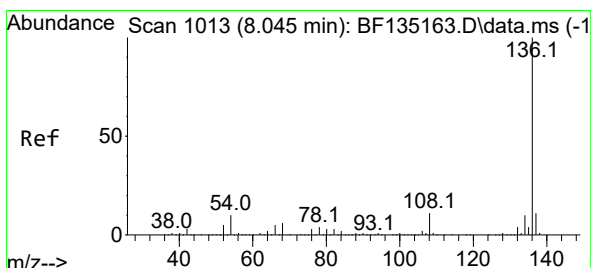
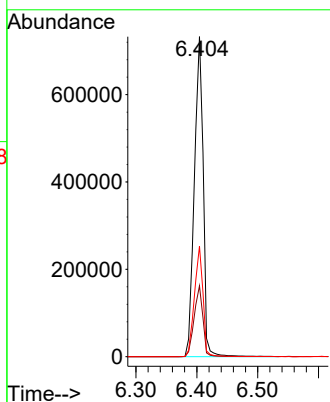
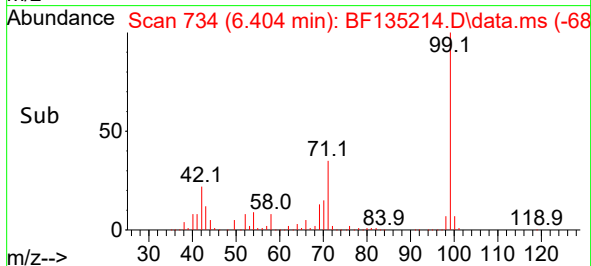
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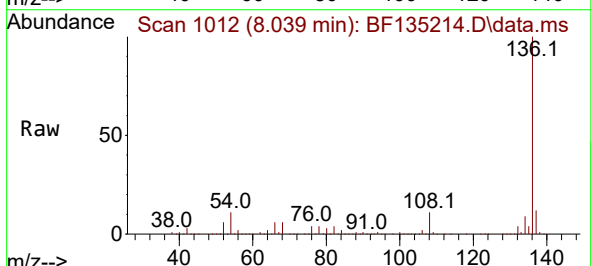
Tgt Ion: 99 Resp: 739254
Ion Ratio Lower Upper
99 100
42 22.2 17.9 26.9
71 34.5 27.0 40.6

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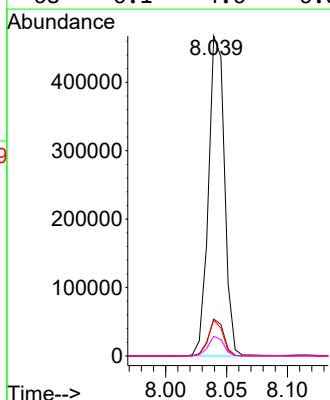
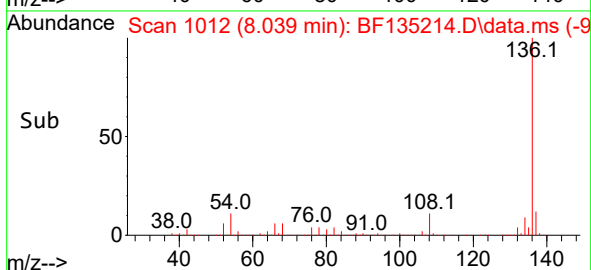
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.039 min Scan# 1012
Delta R.T. -0.006 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14



Tgt Ion:136 Resp: 427284
Ion Ratio Lower Upper
136 100
137 11.6 8.8 13.2
54 11.2 7.7 11.5
68 6.1 4.6 6.8





#23
Nitrobenzene-d5
Concen: 55.760 ng
RT: 7.328 min Scan# 892
Delta R.T. -0.006 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14

Instrument :

BNA_F

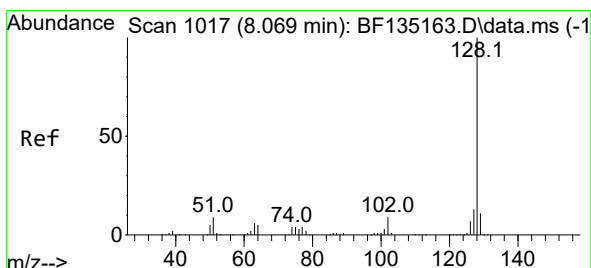
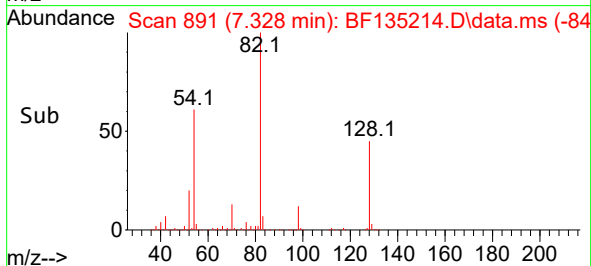
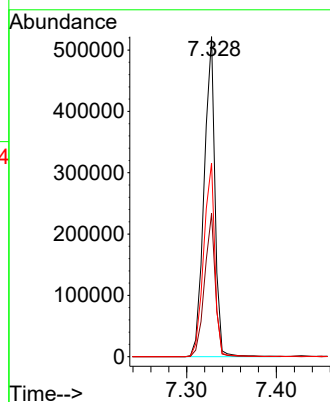
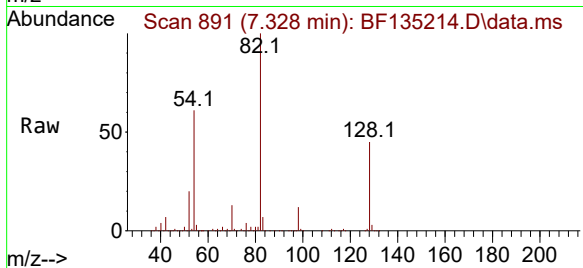
ClientSampleId :

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Tgt Ion: 82 Resp: 438538
Ion Ratio Lower Upper
82 100
128 44.7 35.8 53.6
54 60.5 50.6 76.0

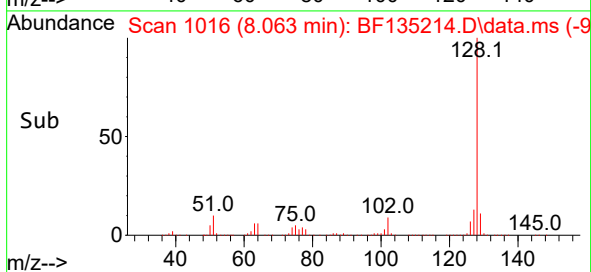
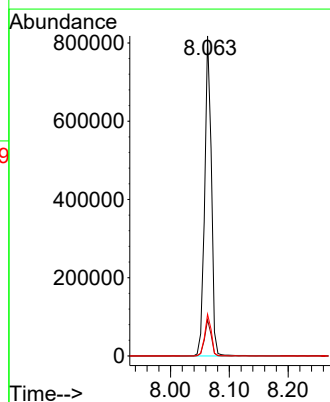
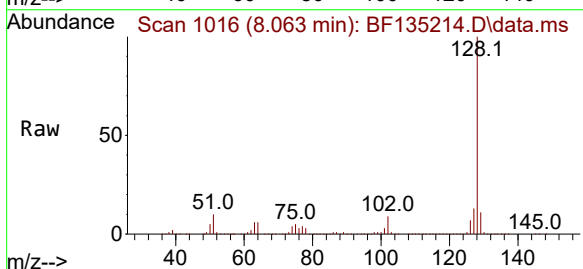
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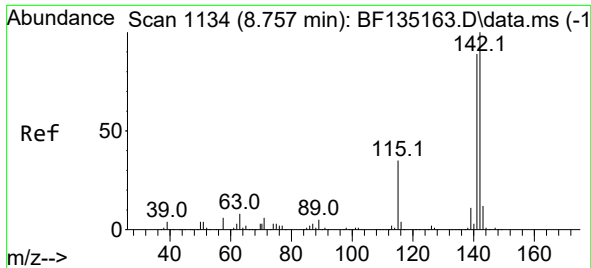
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023



#31
Naphthalene
Concen: 31.281 ng
RT: 8.063 min Scan# 1016
Delta R.T. -0.006 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14

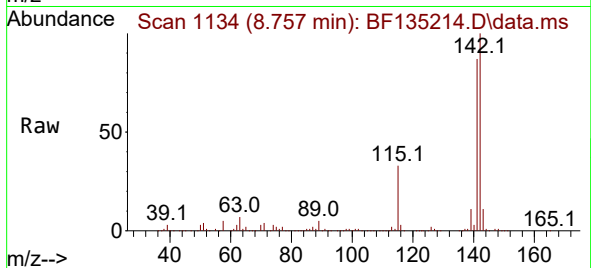
Tgt Ion:128 Resp: 649406
Ion Ratio Lower Upper
128 100
129 11.3 8.7 13.1
127 13.0 10.7 16.1





#37
2-Methylnaphthalene
Concen: 16.281 ng
RT: 8.757 min Scan# 1134
Delta R.T. 0.000 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14

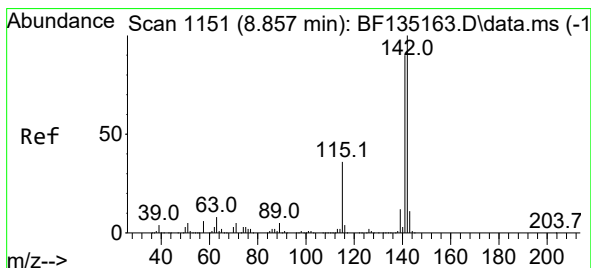
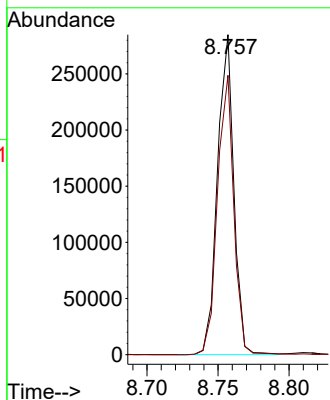
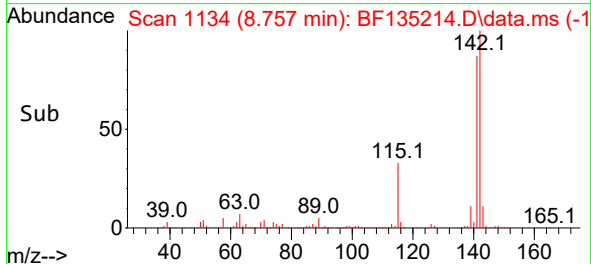
Instrument :
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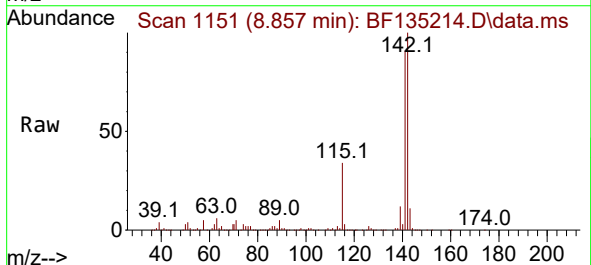
Tgt Ion:142 Resp: 227198
Ion Ratio Lower Upper
142 100
141 87.3 71.0 106.6

Manual Integrations
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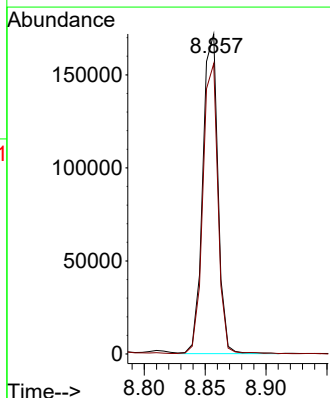
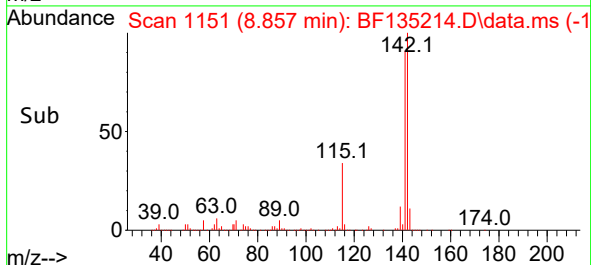
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023

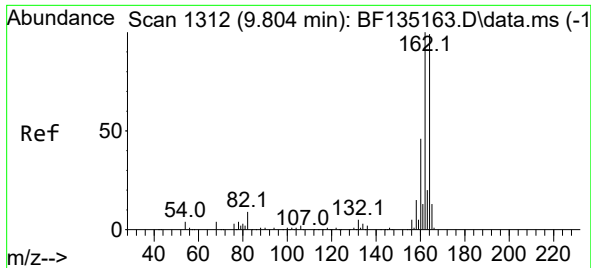


#38
1-Methylnaphthalene
Concen: 11.431 ng
RT: 8.857 min Scan# 1151
Delta R.T. 0.000 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14



Tgt Ion:142 Resp: 149343
Ion Ratio Lower Upper
142 100
141 90.7 72.4 108.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.798 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14

Instrument :

BNA_F

ClientSampleId :

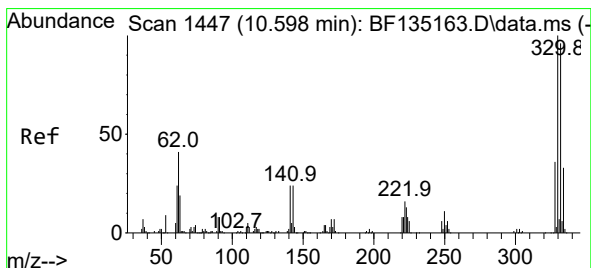
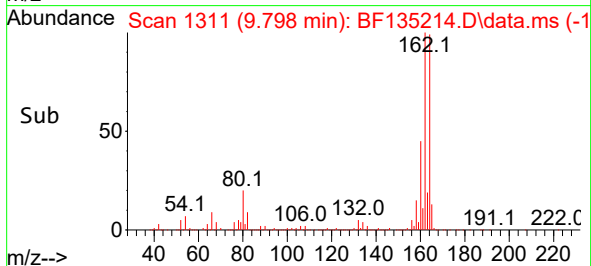
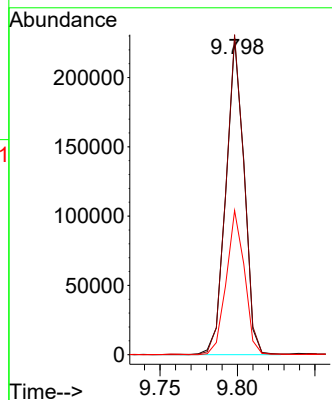
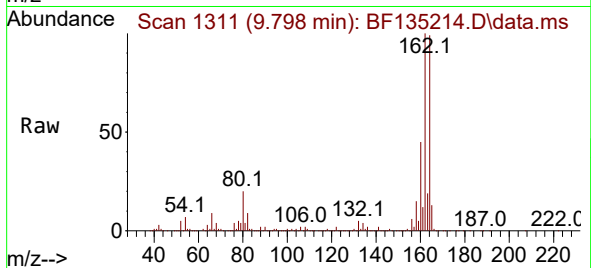
SB-02-COMP

Tgt Ion:164 Resp: 18620
Ion Ratio Lower Upper
164 100
162 101.1 81.0 121.4
160 45.5 37.0 55.4

Manual Integrations

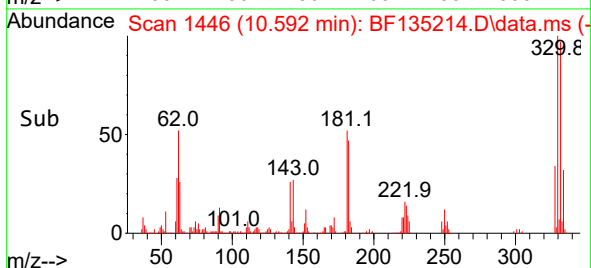
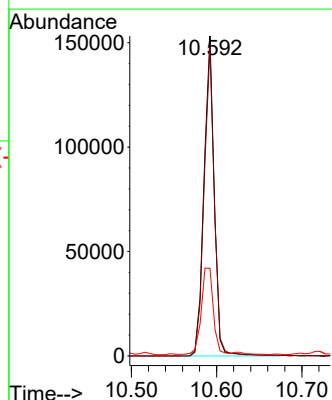
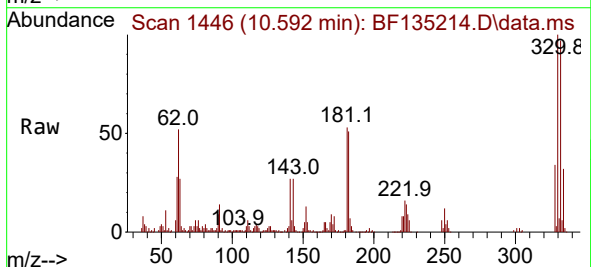
APPROVED

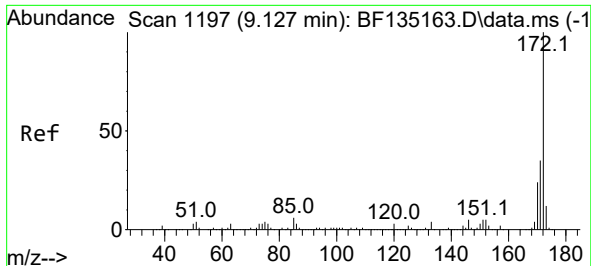
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023



#42
2,4,6-Tribromophenol
Concen: 69.198 ng
RT: 10.592 min Scan# 1446
Delta R.T. -0.006 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14

Tgt Ion:330 Resp: 128046
Ion Ratio Lower Upper
330 100
332 96.5 77.3 115.9
141 31.5 25.8 38.8





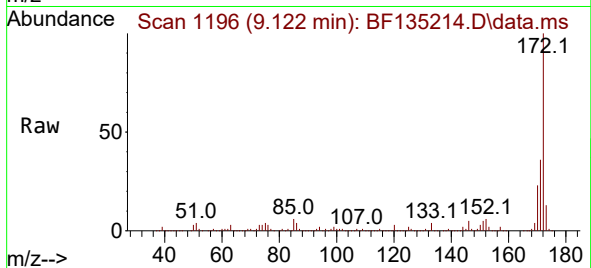
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2-Fluorobiphenyl
Concen: 59.454 ng
RT: 9.122 min Scan# 1197
Delta R.T. -0.006 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14

Instrument :

BNA_F

ClientSampleId :

SB-02-COMP

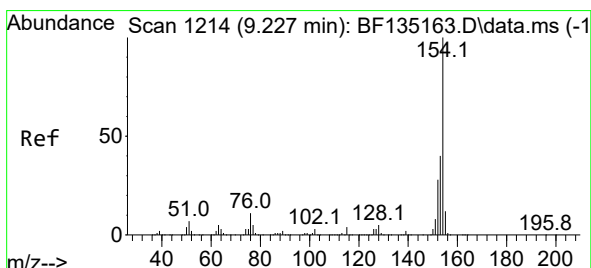
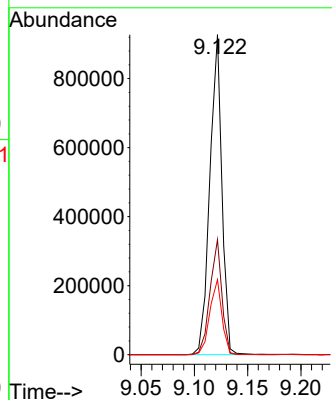
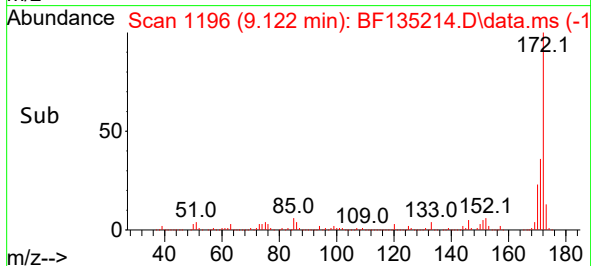


Tgt Ion:172 Resp: 733780
Ion Ratio Lower Upper
172 100
171 36.0 28.4 42.6
170 23.5 19.0 28.4

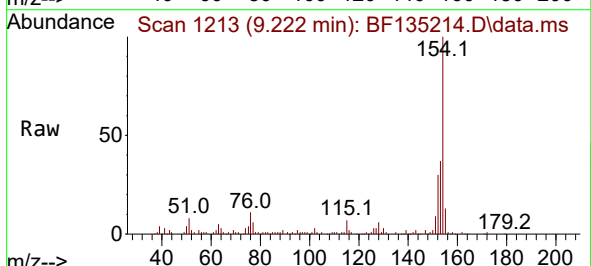
Manual Integrations

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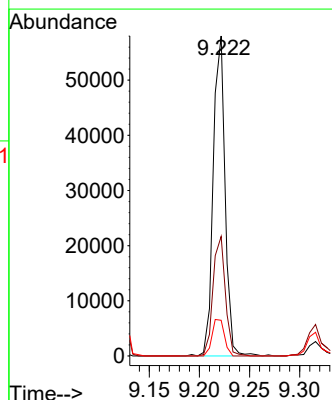
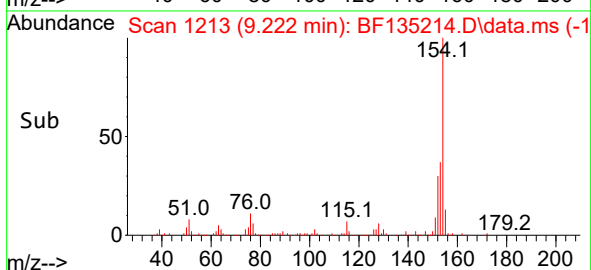
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023

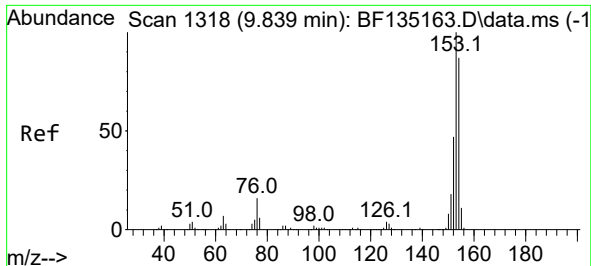


#46
1,1'-Biphenyl
Concen: 3.342 ng
RT: 9.222 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14



Tgt Ion:154 Resp: 47825
Ion Ratio Lower Upper
154 100
153 37.3 19.6 59.6
76 11.2 0.0 31.0





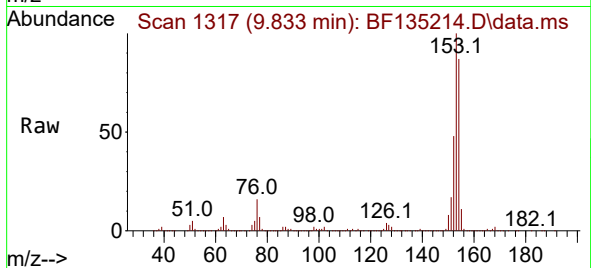
#52
Acenaphthene
Concen: 30.963 ng
RT: 9.833 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14

Instrument :

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ClientSampleId :

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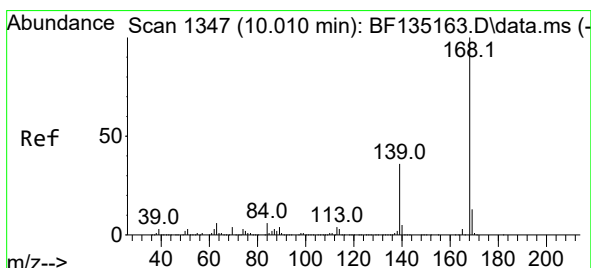
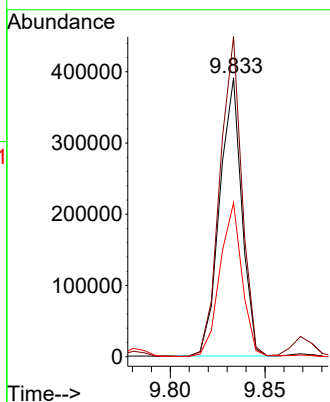
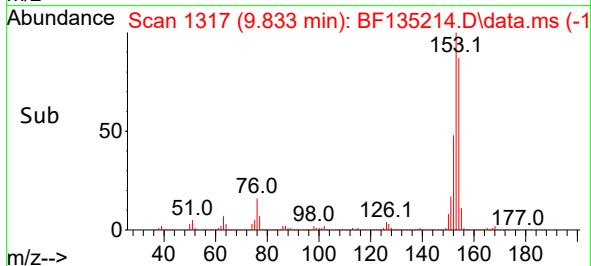


Tgt Ion:154 Resp: 31561
Ion Ratio Lower Upper
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153 114.7 92.1 138.1
152 55.3 43.1 64.7

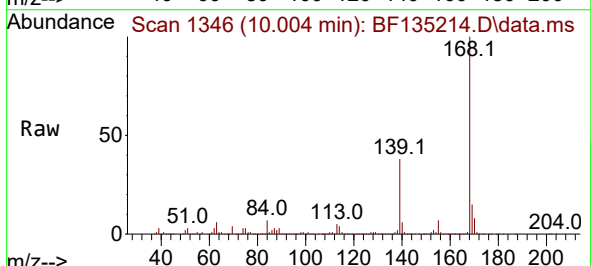
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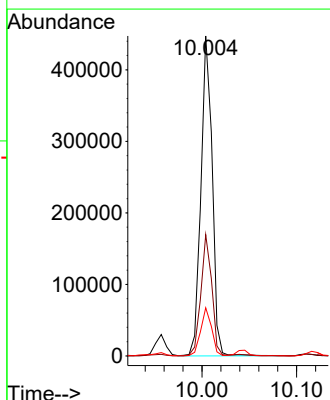
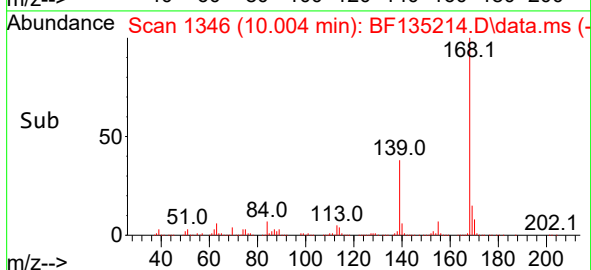
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023

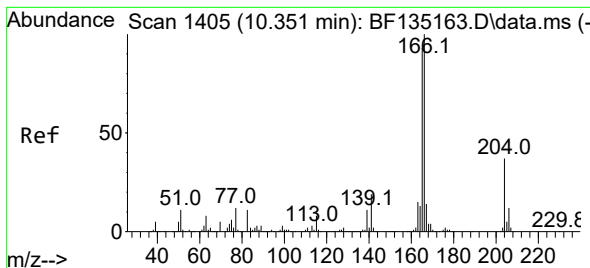


#55
Dibenzofuran
Concen: 23.864 ng
RT: 10.004 min Scan# 1346
Delta R.T. -0.006 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14



Tgt Ion:168 Resp: 371198
Ion Ratio Lower Upper
168 100
139 37.9 29.0 43.6
169 15.1 10.4 15.6





#58

Fluorene

Concen: 38.947 ng

RT: 10.351 min Scan# 1405

Delta R.T. 0.000 min

Lab File: BF135214.D

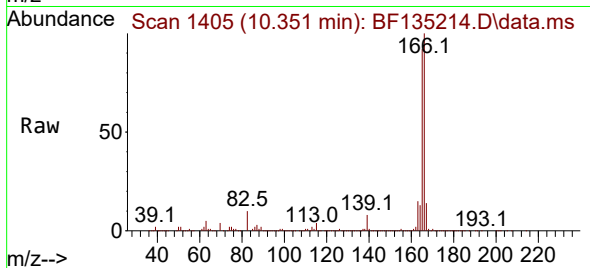
Acq: 13 Sep 2023 09:14

Instrument :

BNA_F

ClientSampleId :

SB-02-COMP



Tgt Ion:166 Resp: 46572

Ion Ratio Lower Upper

166 100

165 92.0 74.3 111.5

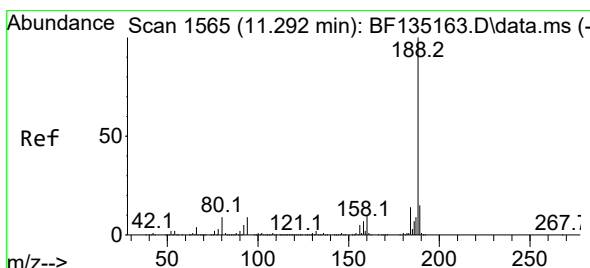
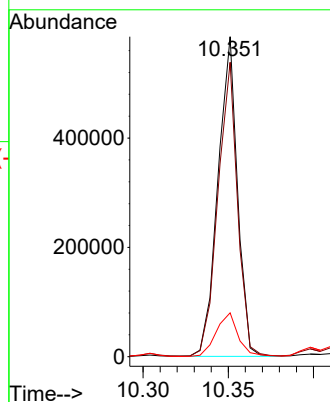
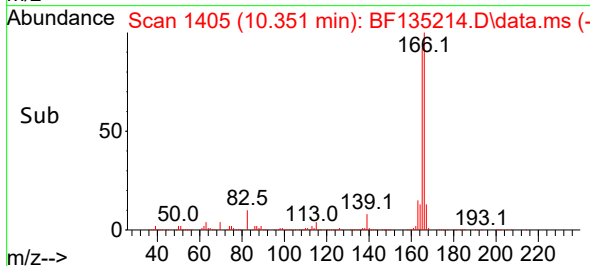
167 13.7 10.9 16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/13/2023

Supervised By :mohammad ahmed 09/14/2023



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.292 min Scan# 1565

Delta R.T. 0.000 min

Lab File: BF135214.D

Acq: 13 Sep 2023 09:14

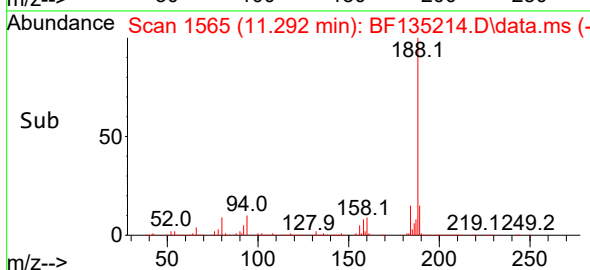
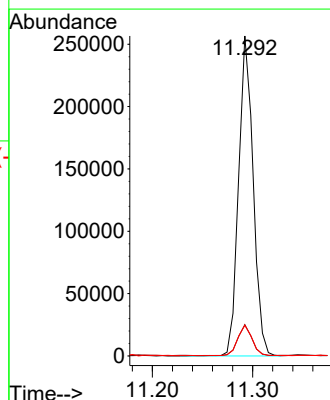
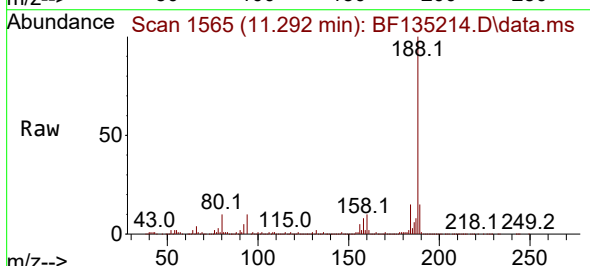
Tgt Ion:188 Resp: 259272

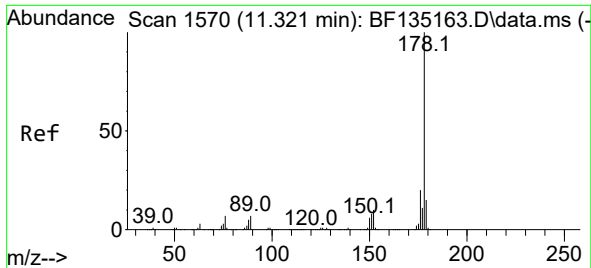
Ion Ratio Lower Upper

188 100

94 9.8 7.0 10.6

80 9.5 7.5 11.3





#71
Phenanthrene
Concen: 179.880 ng
RT: 11.327 min Scan# 1570
Delta R.T. 0.006 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14

Instrument :

BNA_F

ClientSampleId :

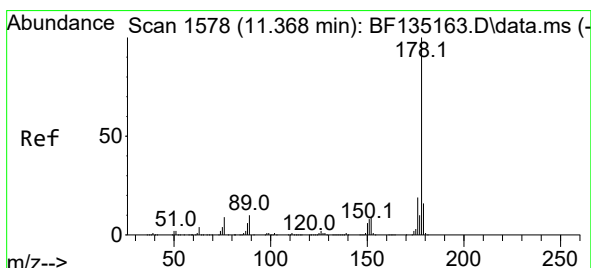
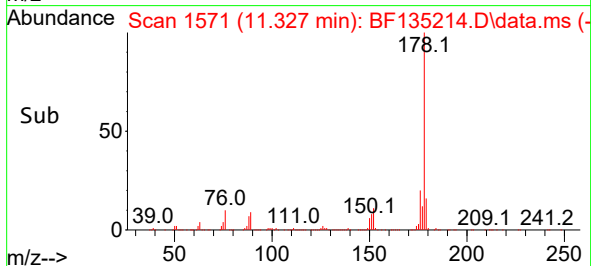
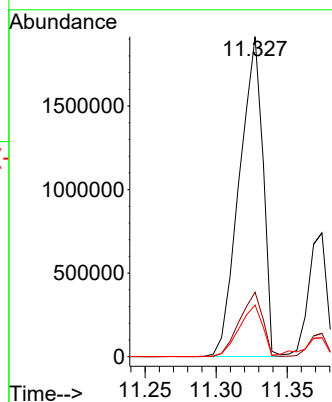
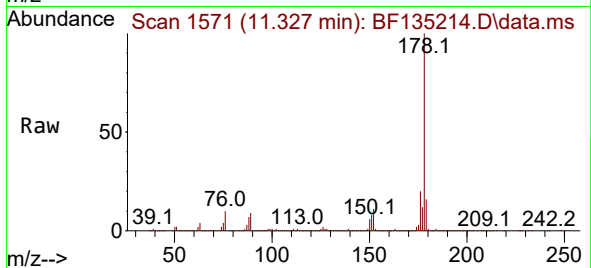
SB-02-COMP

Tgt Ion:178 Resp: 220576
Ion Ratio Lower Upper
178 100
176 20.2 15.6 23.4
179 16.2 12.0 18.0

Manual Integrations

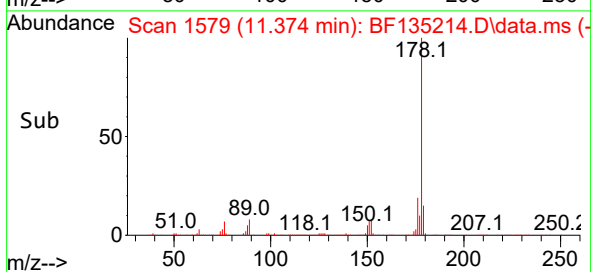
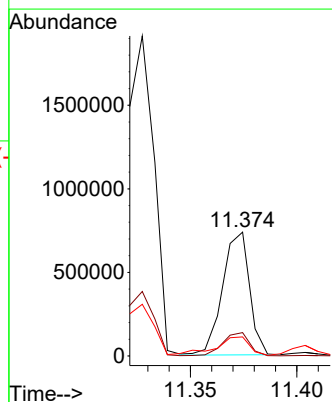
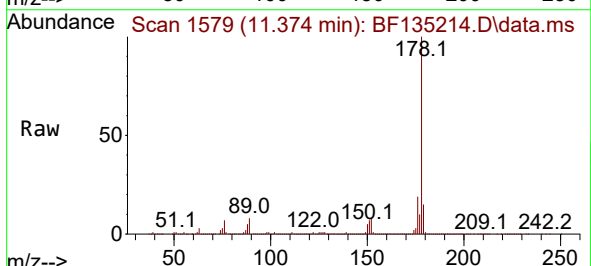
APPROVED

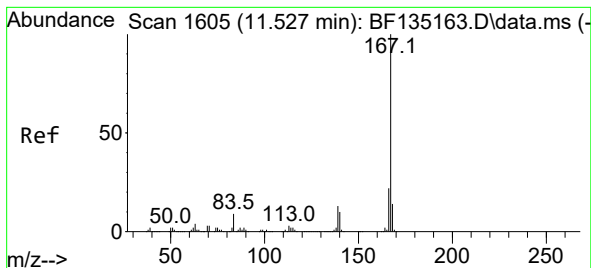
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023



#72
Anthracene
Concen: 51.546 ng
RT: 11.374 min Scan# 1579
Delta R.T. 0.006 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14

Tgt Ion:178 Resp: 649714
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 15.4 12.6 19.0





#73

Carbazole

Concen: 16.400 ng

RT: 11.527 min Scan# 1605

Delta R.T. 0.000 min

Lab File: BF135214.D

Acq: 13 Sep 2023 09:14

Instrument :

BNA_F

ClientSampleId :

SB-02-COMP

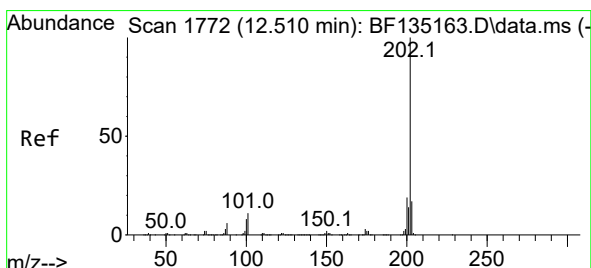
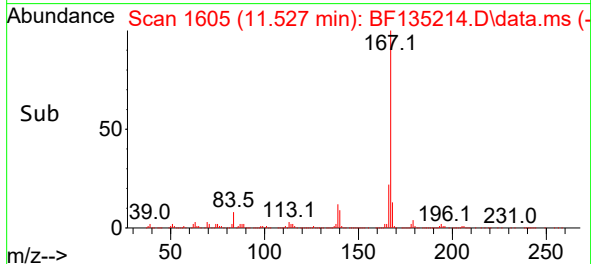
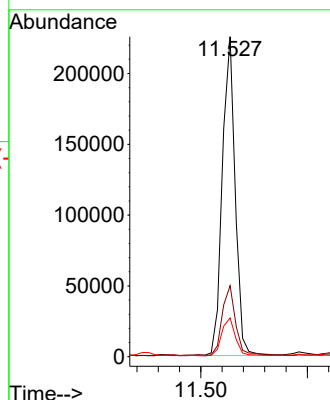
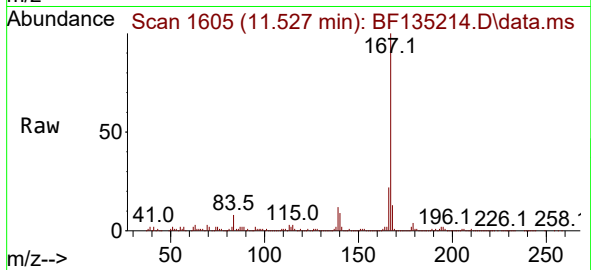
Tgt Ion:167	Resp: 188174
Ion Ratio	Lower Upper
167 100	
166 22.2	17.4 26.0
139 12.1	10.6 15.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/13/2023

Supervised By :mohammad ahmed 09/14/2023



#75

Fluoranthene

Concen: 122.633 ng

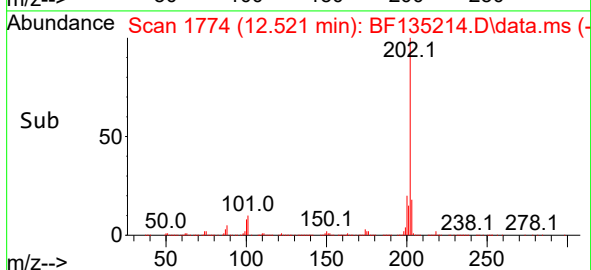
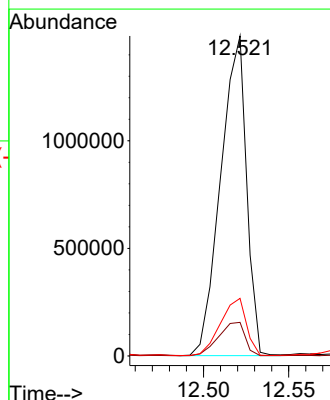
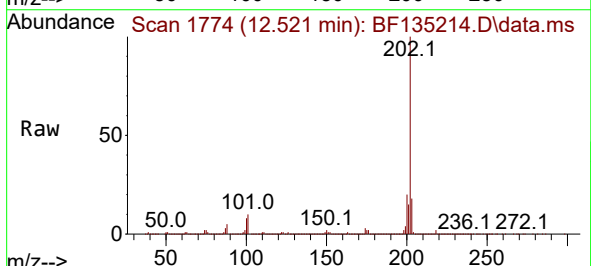
RT: 12.521 min Scan# 1774

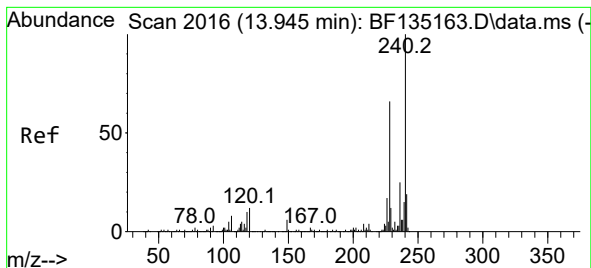
Delta R.T. 0.012 min

Lab File: BF135214.D

Acq: 13 Sep 2023 09:14

Tgt Ion:202	Resp: 1566931
Ion Ratio	Lower Upper
202 100	
101 10.5	0.0 31.3
203 18.0	0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.951 min Scan# 2016

Delta R.T. 0.006 min

Lab File: BF135214.D

Acq: 13 Sep 2023 09:14

Instrument :

BNA_F

ClientSampleId :

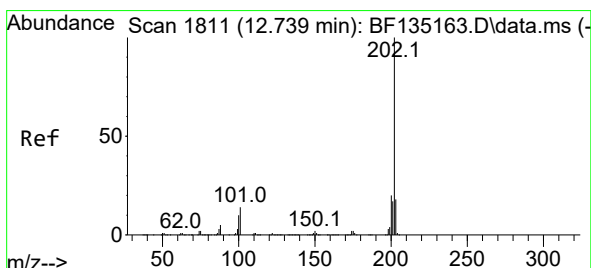
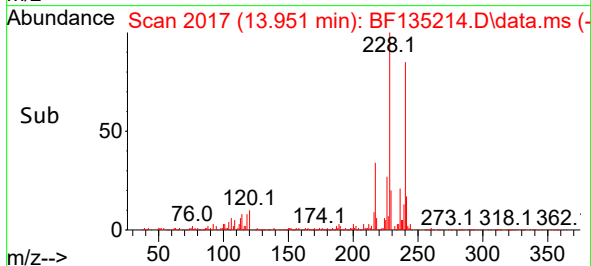
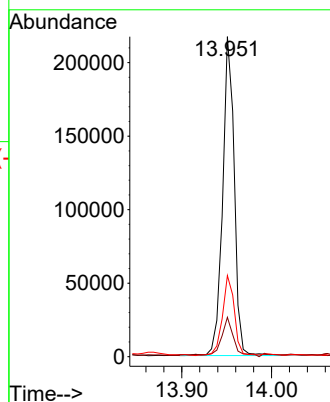
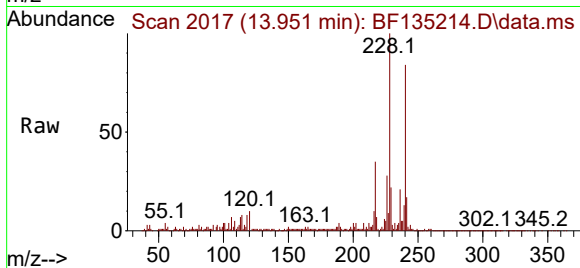
SB-02-COMP

Tgt Ion:240 Resp: 19533
 Ion Ratio Lower Upper
 240 100
 120 12.3 9.4 14.2
 236 25.4 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/13/2023
 Supervised By :mohammad ahmed 09/14/2023



#78

Pyrene

Concen: 86.879 ng

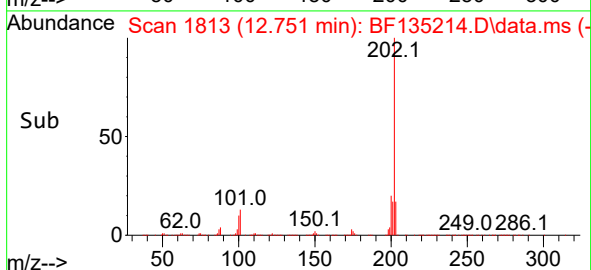
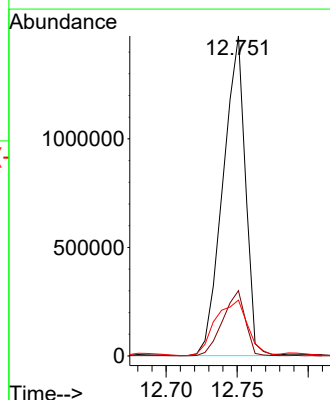
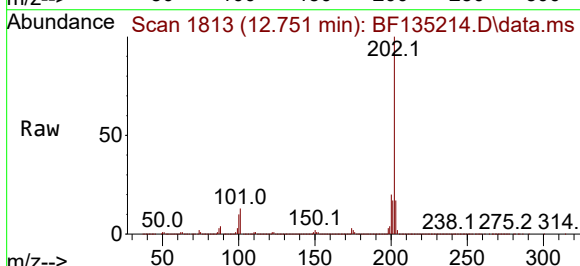
RT: 12.751 min Scan# 1813

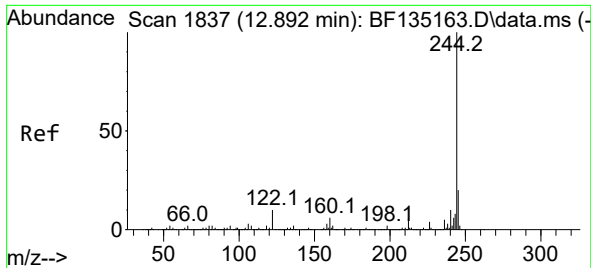
Delta R.T. 0.012 min

Lab File: BF135214.D

Acq: 13 Sep 2023 09:14

Tgt Ion:202 Resp: 1615701
 Ion Ratio Lower Upper
 202 100
 200 20.4 16.2 24.2
 203 17.5 14.2 21.4





#79
 Terphenyl-d14
 Concen: 40.794 ng
 RT: 12.886 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF135214.D
 Acq: 13 Sep 2023 09:14

Instrument :

BNA_F

ClientSampleId :

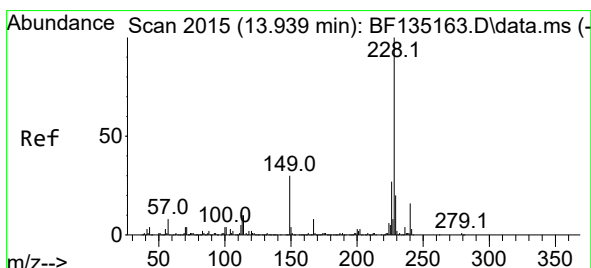
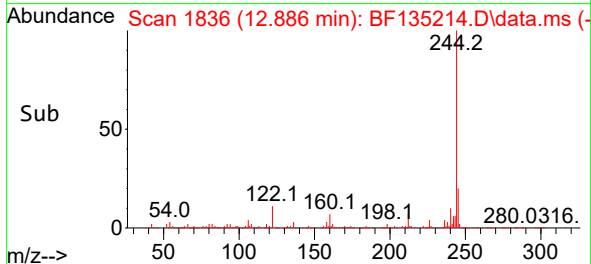
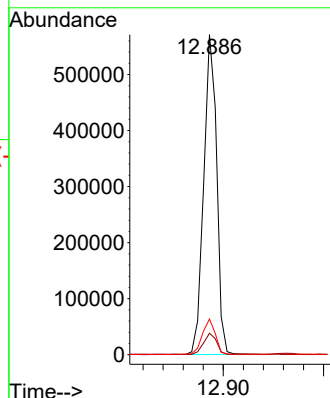
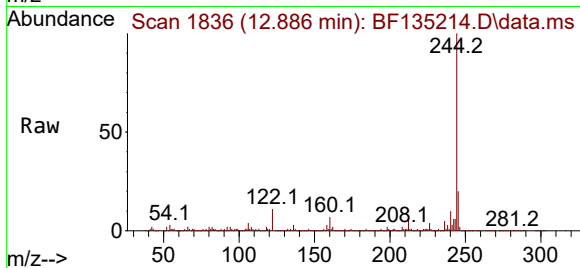
SB-02-COMP

Tgt Ion:244 Resp: 514020
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.1 7.7
 122 11.1 7.9 11.9

Manual Integrations

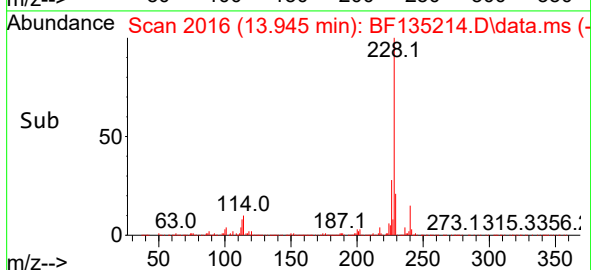
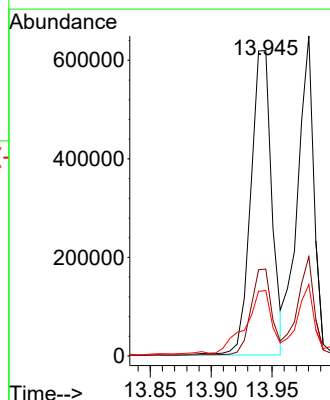
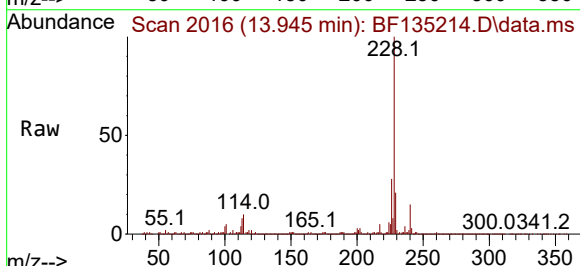
APPROVED

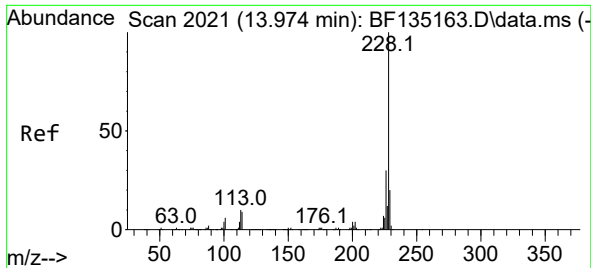
Reviewed By :Yogesh Patel 09/13/2023
 Supervised By :mohammad ahmed 09/14/2023



#81
 Benzo(a)anthracene
 Concen: 58.826 ng
 RT: 13.945 min Scan# 2016
 Delta R.T. 0.006 min
 Lab File: BF135214.D
 Acq: 13 Sep 2023 09:14

Tgt Ion:228 Resp: 741980
 Ion Ratio Lower Upper
 228 100
 226 28.5 21.7 32.5
 229 21.5 15.8 23.8





#83
Chrysene
Concen: 48.962 ng
RT: 13.980 min Scan# 2021
Delta R.T. 0.006 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14

Instrument :

BNA_F

ClientSampleId :

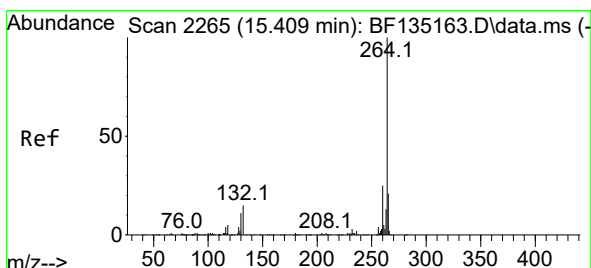
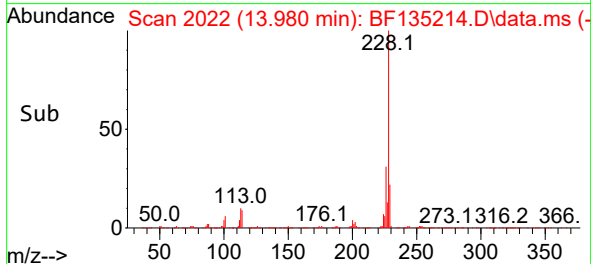
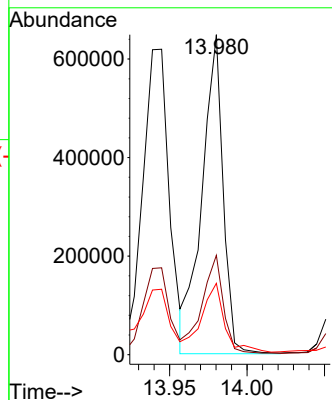
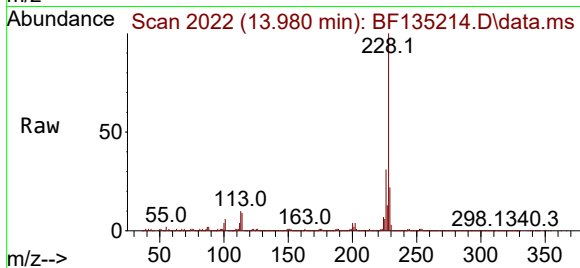
SB-02-COMP

Tgt Ion:228 Resp: 614000
Ion Ratio Lower Upper
228 100
226 31.0 24.3 36.5
229 22.3 16.0 24.0

Manual Integrations

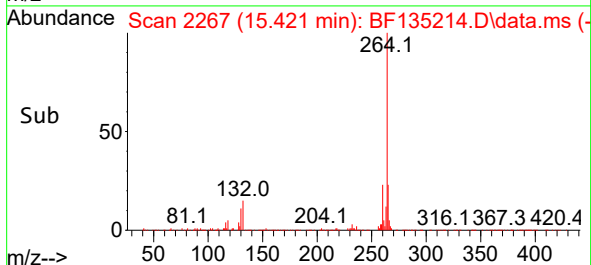
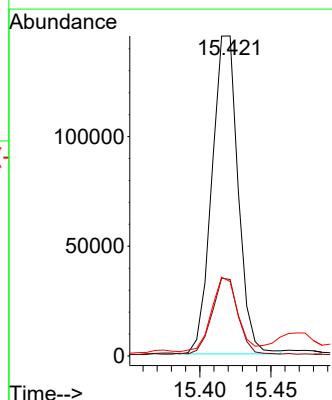
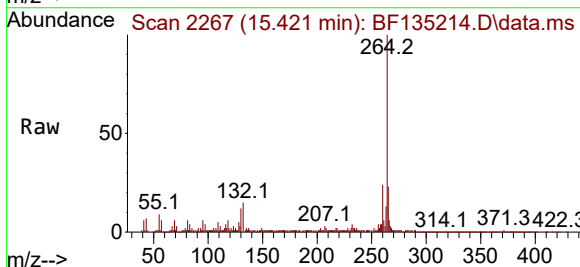
APPROVED

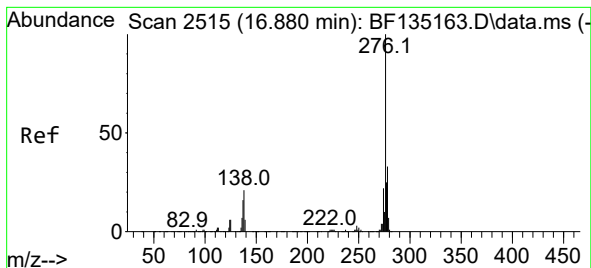
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.421 min Scan# 2267
Delta R.T. 0.012 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14

Tgt Ion:264 Resp: 185516
Ion Ratio Lower Upper
264 100
260 23.9 19.8 29.6
265 23.3 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 15.662 ng

RT: 16.892 min Scan# 211

Delta R.T. 0.012 min

Lab File: BF135214.D

Acq: 13 Sep 2023 09:14

Instrument :

BNA_F

ClientSampleId :

SB-02-COMP

Tgt Ion:276 Resp: 190502

Ion Ratio Lower Upper

276 100

138 21.8 19.2 28.8

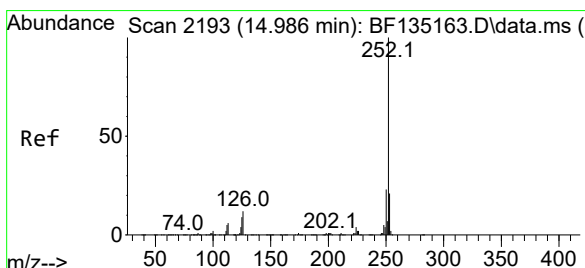
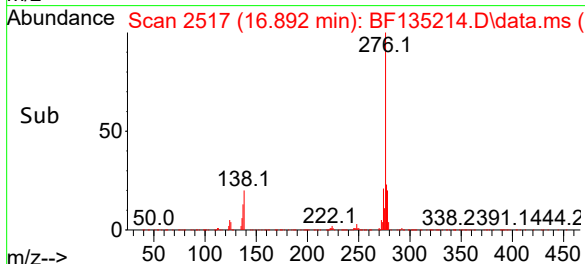
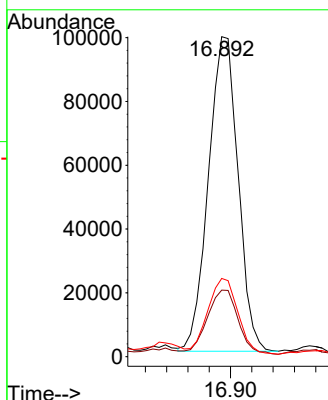
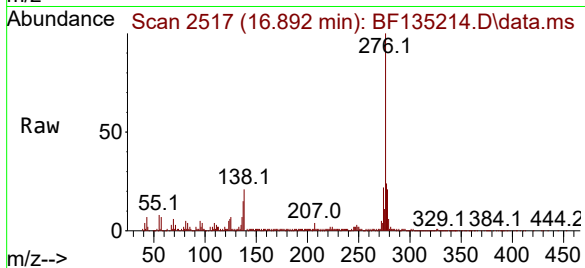
277 24.6 19.7 29.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/13/2023

Supervised By :mohammad ahmed 09/14/2023



#88

Benzo(b)fluoranthene

Concen: 54.447 ng m

RT: 14.998 min Scan# 2195

Delta R.T. 0.012 min

Lab File: BF135214.D

Acq: 13 Sep 2023 09:14

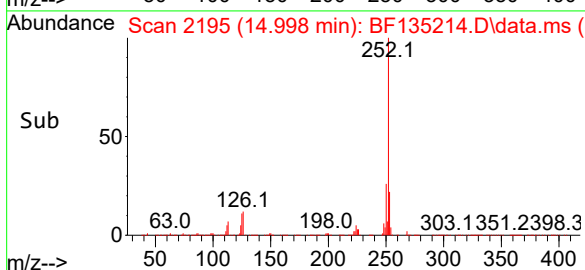
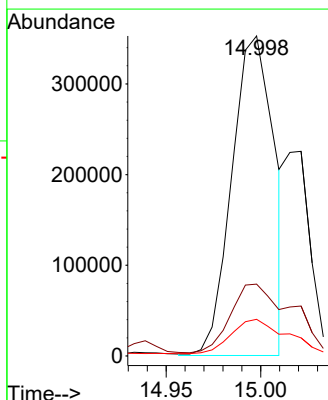
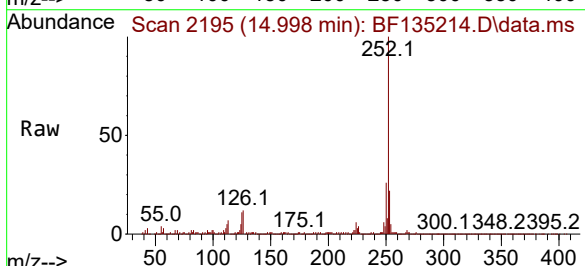
Tgt Ion:252 Resp: 546789

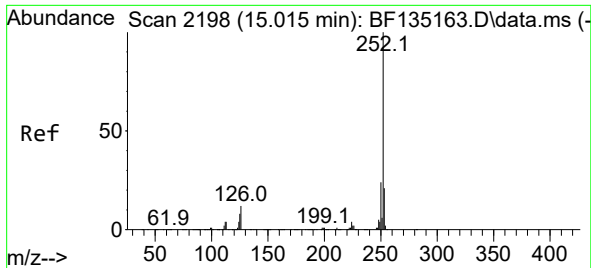
Ion Ratio Lower Upper

252 100

253 22.5 17.2 25.8

125 11.5 7.1 10.7#





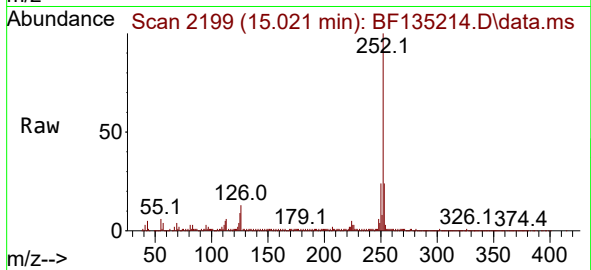
#89
Benzo(k)fluoranthene
Concen: 20.426 ng m
RT: 15.021 min Scan# 2198
Delta R.T. 0.006 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14

Instrument :

BNA_F

ClientSampleId :

SB-02-COMP

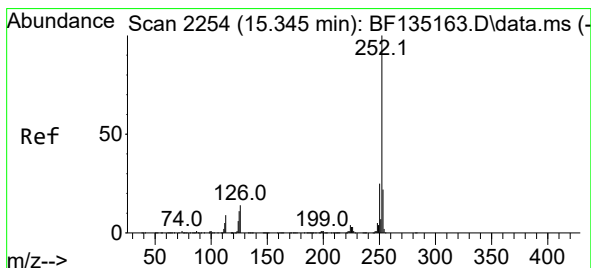
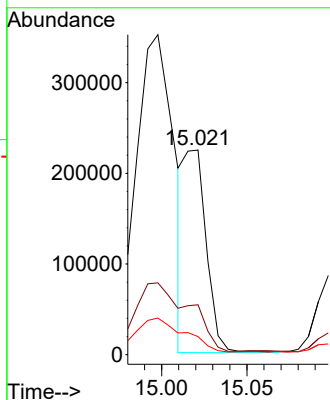
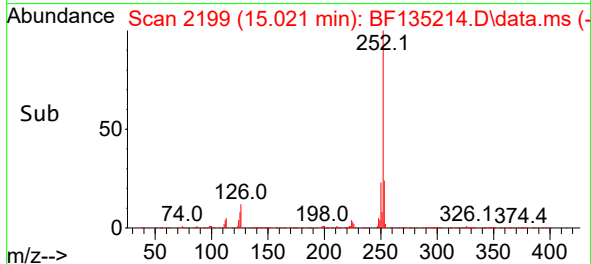


Tgt Ion:252 Resp: 202634
Ion Ratio Lower Upper
252 100
253 24.4 17.4 26.0
125 8.9 7.2 10.8

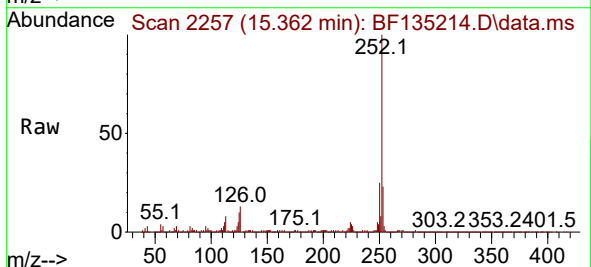
Manual Integrations

APPROVED

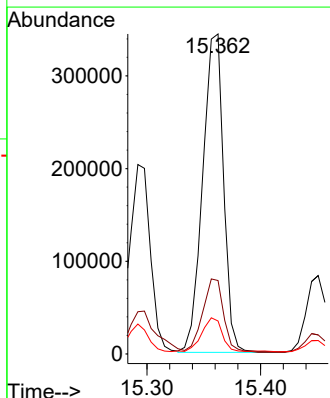
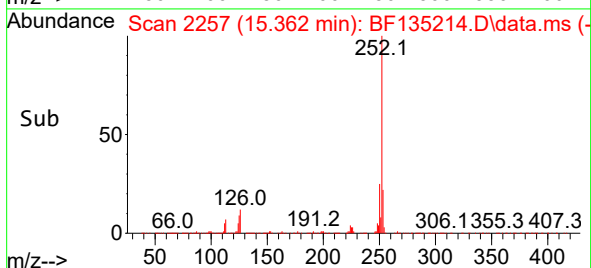
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023

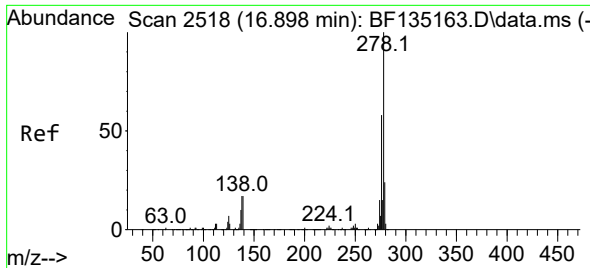


#90
Benzo(a)pyrene
Concen: 45.977 ng
RT: 15.362 min Scan# 2257
Delta R.T. 0.018 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14



Tgt Ion:252 Resp: 440320
Ion Ratio Lower Upper
252 100
253 22.9 17.5 26.3
125 10.3 9.2 13.8





#91
Dibenzo(a,h)anthracene
Concen: 5.210 ng
RT: 16.904 min Scan# 2518
Delta R.T. 0.006 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14

Instrument :

BNA_F

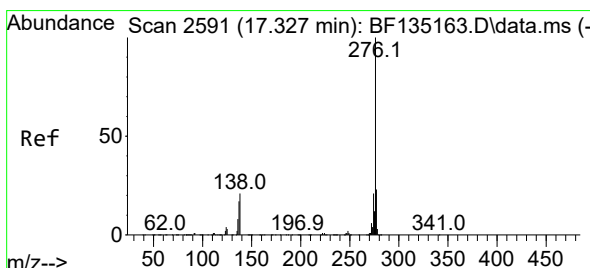
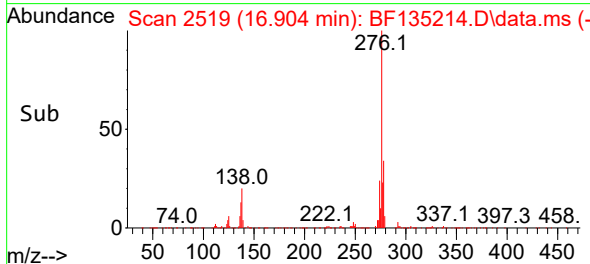
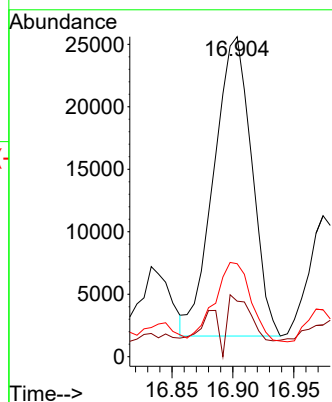
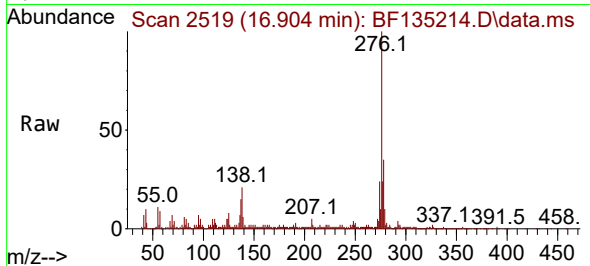
ClientSampleId :

SB-02-COMP

Tgt Ion:278 Resp: 51850
Ion Ratio Lower Upper
278 100
139 17.3 13.4 20.0
279 29.1 19.0 28.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023



#92
Benzo(g,h,i)perylene
Concen: 16.504 ng
RT: 17.339 min Scan# 2593
Delta R.T. 0.012 min
Lab File: BF135214.D
Acq: 13 Sep 2023 09:14

Tgt Ion:276 Resp: 171541
Ion Ratio Lower Upper
276 100
277 23.6 18.8 28.2
138 20.6 16.9 25.3

