

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082523\
 Data File : BF134955.D
 Acq On : 25 Aug 2023 23:02
 Operator : CG\JU
 Sample : 04147-04 10X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-04(21.5-23)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/28/2023
 Supervised By :mohammad ahmed 08/28/2023

Quant Time: Aug 26 02:53:46 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 22 19:33:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	93906	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	318215	20.000	ng	0.00
39) Acenaphthene-d10	9.827	164	164741	20.000	ng	0.00
64) Phenanthrene-d10	11.327	188	263193	20.000	ng	0.00
76) Chrysene-d12	13.986	240	167682	20.000	ng	0.00
86) Perylene-d12	15.462	264	141655	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	45639	7.750	ng	-0.01
7) Phenol-d6	6.422	99	60145	7.993	ng	-0.02
23) Nitrobenzene-d5	7.351	82	33399	5.784	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	11644	6.001	ng	0.00
45) 2-Fluorobiphenyl	9.145	172	62842	5.897	ng	-0.01
79) Terphenyl-d14	12.916	244	64264	5.271	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.128	128	7834138	493.042	ng	97
37) 2-Methylnaphthalene	8.792	142	1249265	117.895	ng	98
38) 1-Methylnaphthalene	8.892	142	1041533	105.116	ng	100
46) 1,1'-Biphenyl	9.251	154	681919	52.431	ng	99
49) Acenaphthylene	9.698	152	2115951	141.460	ng	99
52) Acenaphthene	9.863	154	450478	47.806	ng	99
55) Dibenzofuran	10.039	168	1494705	108.948	ng	93
58) Fluorene	10.386	166	1209135	116.201	ng	99
71) Phenanthrene	11.374	178	5105065	370.152	ng	98
72) Anthracene	11.422	178	3358170	237.645	ng	98
73) Carbazole	11.563	167	630435	54.141	ng	100
75) Fluoranthene	12.568	202	4569814	349.700	ng	98
78) Pyrene	12.798	202	4097828	230.491	ng	98
81) Benzo(a)anthracene	13.980	228	1637525m	143.133	ng	
83) Chrysene	14.021	228	2118039	187.637	ng	96
87) Indeno(1,2,3-cd)pyrene	16.962	276	589912	58.261	ng	96
88) Benzo(b)fluoranthene	15.039	252	1358766m	170.014	ng	
89) Benzo(k)fluoranthene	15.057	252	442676m	56.406	ng	
90) Benzo(a)pyrene	15.409	252	1038003	130.102	ng	98
91) Dibenzo(a,h)anthracene	16.968	278	120482	14.706	ng	95
92) Benzo(g,h,i)perylene	17.415	276	555873	66.281	ng	99

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

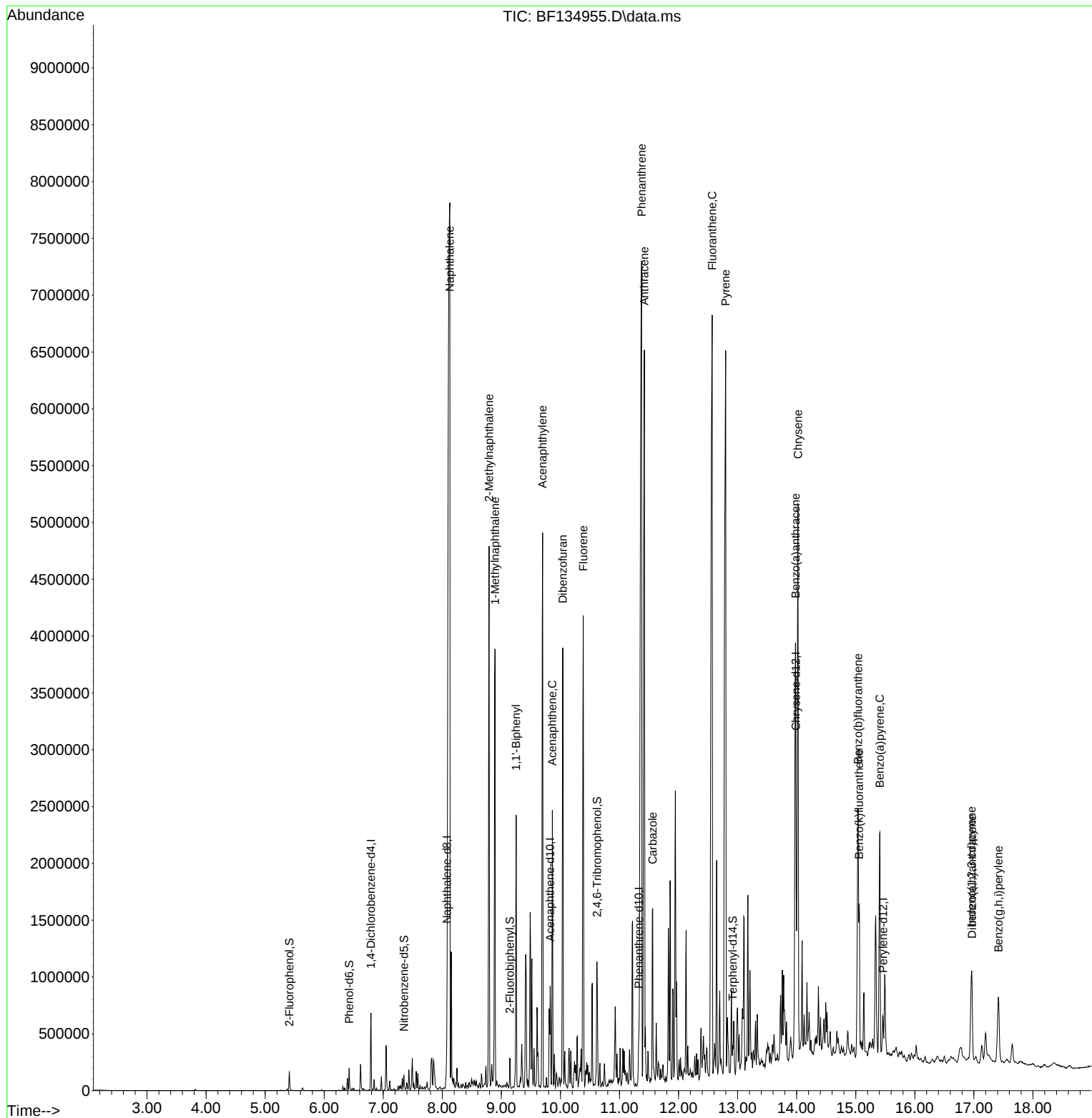
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082523\
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ALS Vial : 20 Sample Multiplier: 1

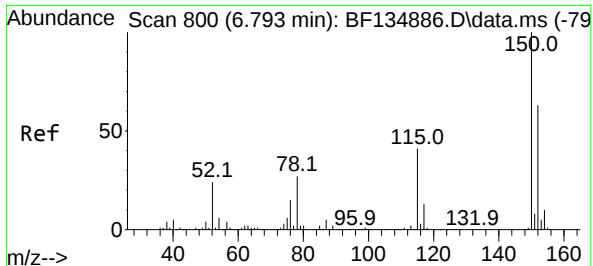
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)

Quant Time: Aug 26 02:53:46 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 22 19:33:25 2023
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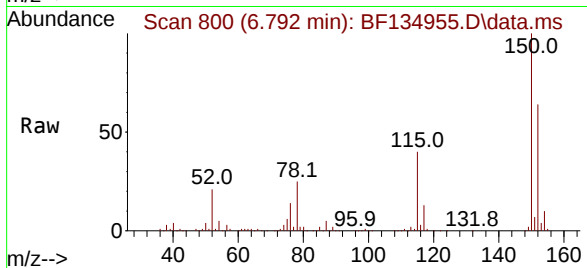
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 800
Delta R.T. -0.001 min
Lab File: BF134955.D
Acq: 25 Aug 2023 23:02

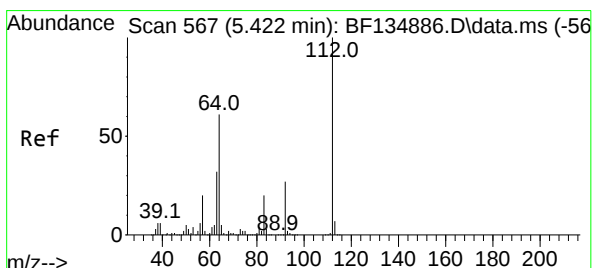
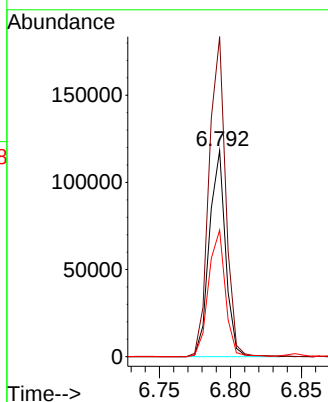
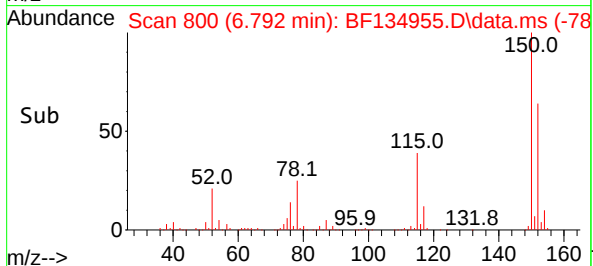
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)



Tgt Ion:152 Resp: 93900
Ion Ratio Lower Upper
152 100
150 155.3 126.1 189.1
115 61.4 51.1 76.7

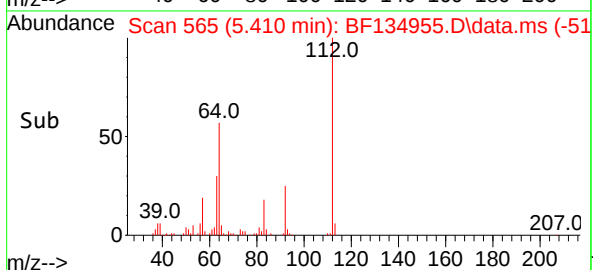
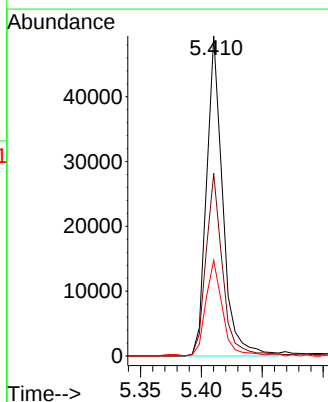
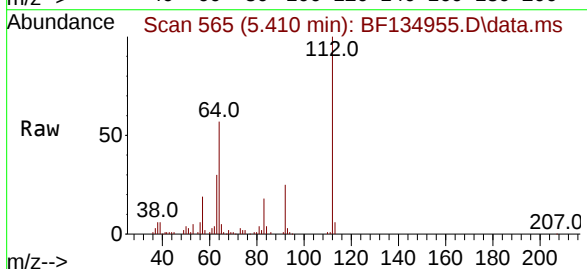
Manual Integrations
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Supervised By :mohammad ahmed 08/28/2023



#5
2-Fluorophenol
Concen: 7.750 ng
RT: 5.410 min Scan# 565
Delta R.T. -0.012 min
Lab File: BF134955.D
Acq: 25 Aug 2023 23:02

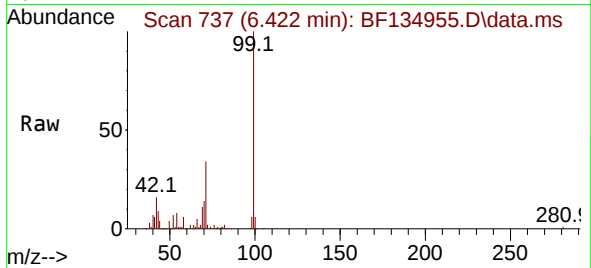
Tgt Ion:112 Resp: 45639
Ion Ratio Lower Upper
112 100
64 57.0 48.6 73.0
63 29.9 25.7 38.5





#7
Phenol-d6
Concen: 7.993 ng
RT: 6.422 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF134955.D
Acq: 25 Aug 2023 23:02

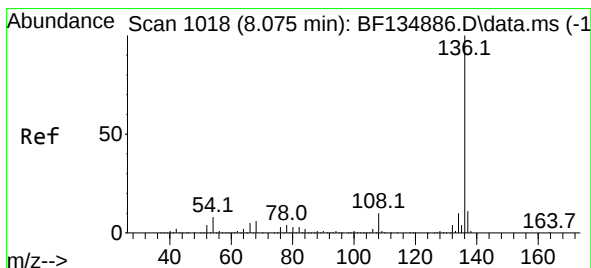
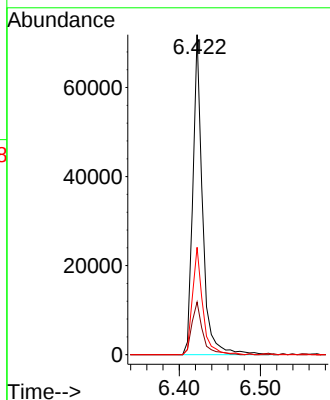
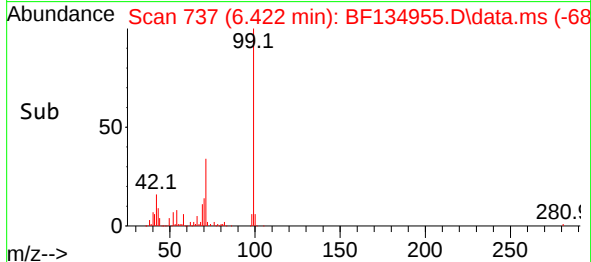
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)



Tgt Ion: 99 Resp: 60145
Ion Ratio Lower Upper
99 100
42 16.5 14.6 22.0
71 33.6 27.6 41.4

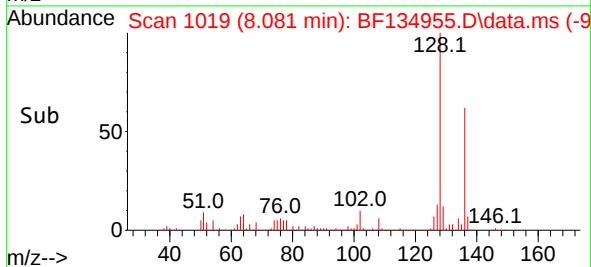
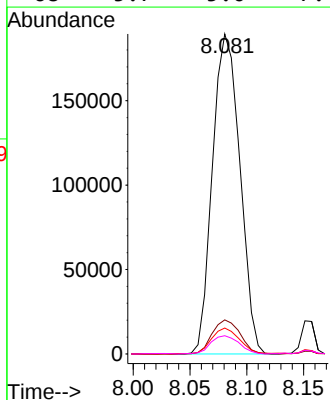
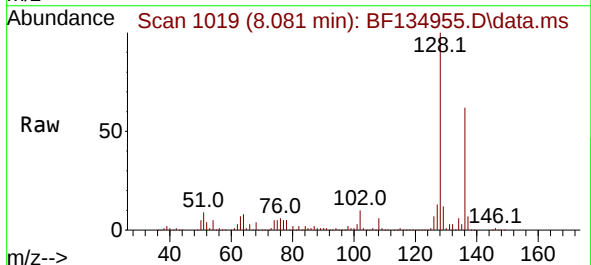
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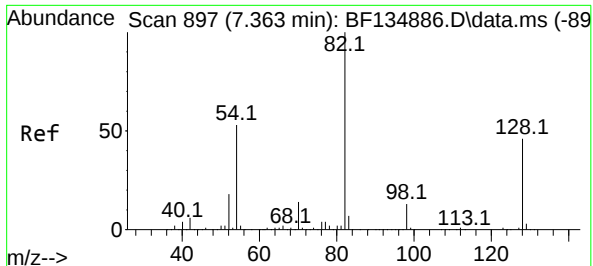
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1019
Delta R.T. 0.006 min
Lab File: BF134955.D
Acq: 25 Aug 2023 23:02

Tgt Ion:136 Resp: 318215
Ion Ratio Lower Upper
136 100
137 10.7 8.9 13.3
54 8.1 6.6 9.8
68 5.7 5.0 7.4





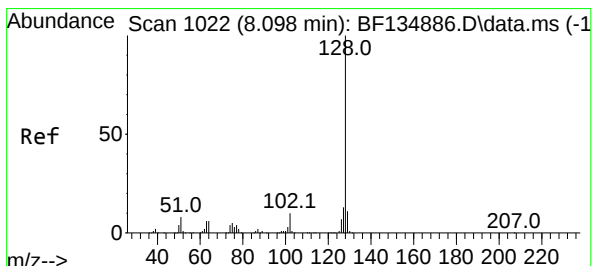
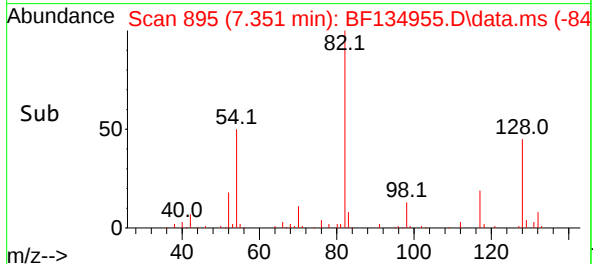
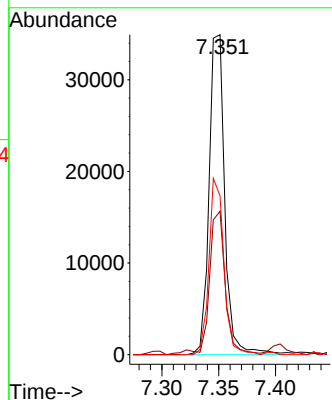
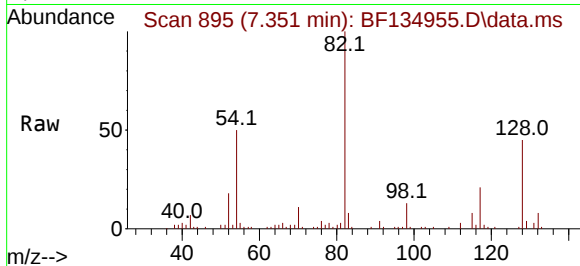
#23
Nitrobenzene-d5
Concen: 5.784 ng
RT: 7.351 min Scan# 895
Delta R.T. -0.012 min
Lab File: BF134955.D
Acq: 25 Aug 2023 23:02

Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)

Tgt Ion: 82 Resp: 3339
Ion Ratio Lower Upper
82 100
128 44.8 36.6 54.8
54 49.6 42.6 63.8

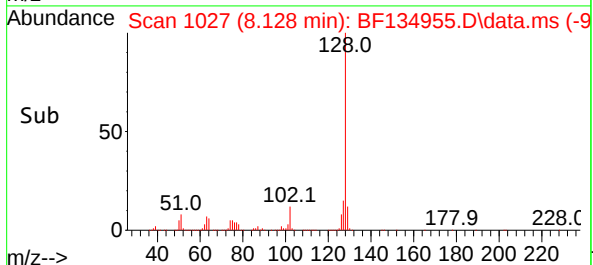
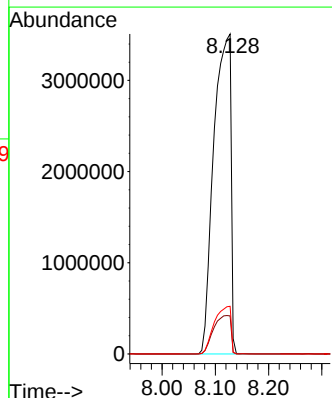
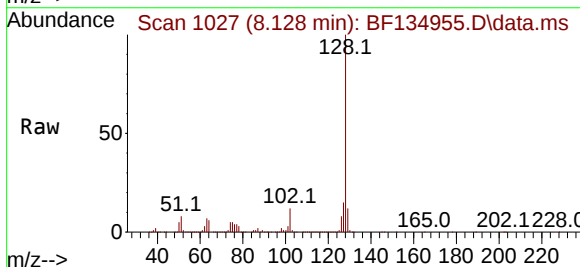
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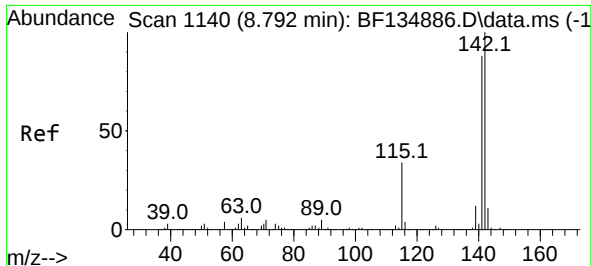
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023



#31
Naphthalene
Concen: 493.042 ng
RT: 8.128 min Scan# 1027
Delta R.T. 0.029 min
Lab File: BF134955.D
Acq: 25 Aug 2023 23:02

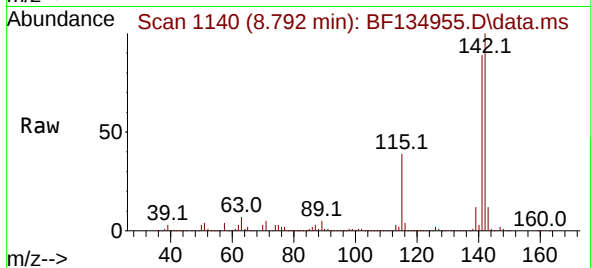
Tgt Ion:128 Resp: 7834138
Ion Ratio Lower Upper
128 100
129 11.9 9.0 13.4
127 14.9 10.6 16.0





#37
2-Methylnaphthalene
Concen: 117.895 ng
RT: 8.792 min Scan# 1140
Delta R.T. -0.000 min
Lab File: BF134955.D
Acq: 25 Aug 2023 23:02

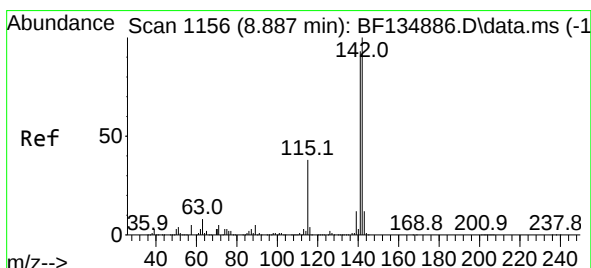
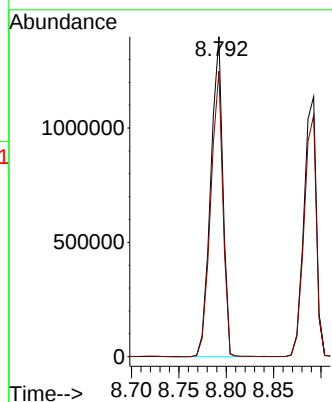
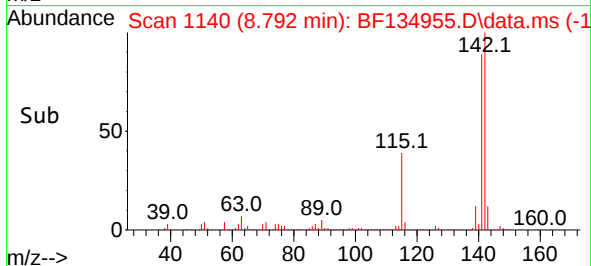
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)



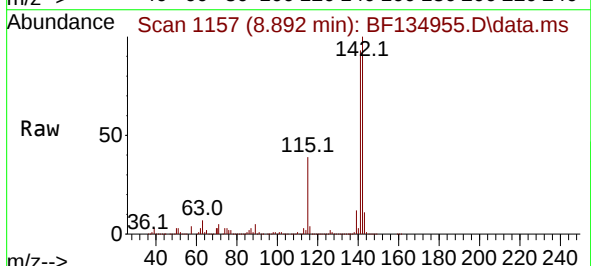
Tgt Ion:142 Resp: 124926
Ion Ratio Lower Upper
142 100
141 89.2 70.2 105.2

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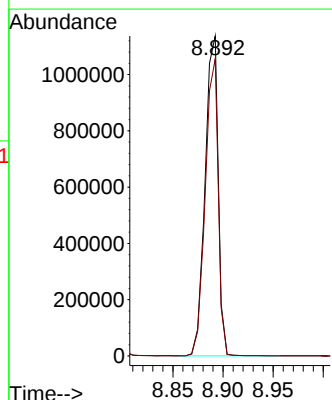
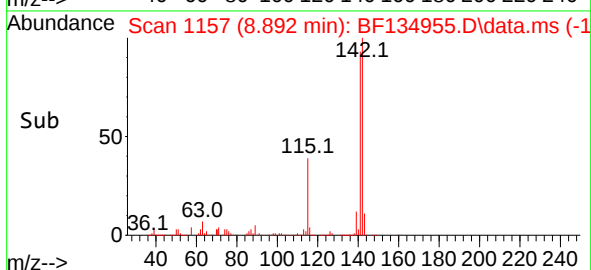
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023

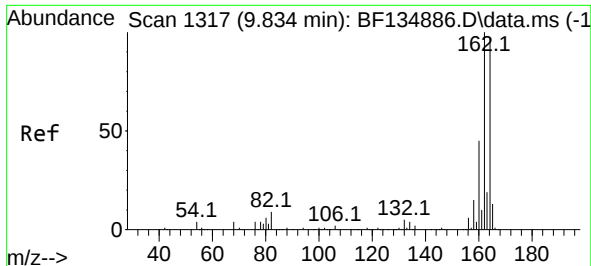


#38
1-Methylnaphthalene
Concen: 105.116 ng
RT: 8.892 min Scan# 1157
Delta R.T. 0.006 min
Lab File: BF134955.D
Acq: 25 Aug 2023 23:02



Tgt Ion:142 Resp: 1041533
Ion Ratio Lower Upper
142 100
141 92.8 74.1 111.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.827 min Scan# 1316

Delta R.T. -0.006 min

Lab File: BF134955.D

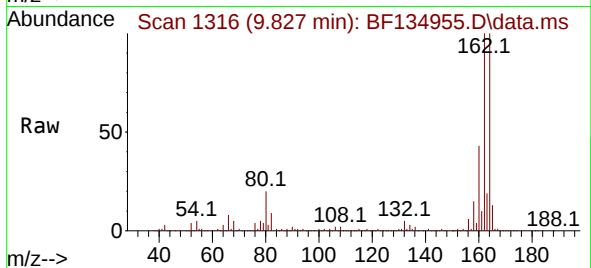
Acq: 25 Aug 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SB-04(21.5-23)



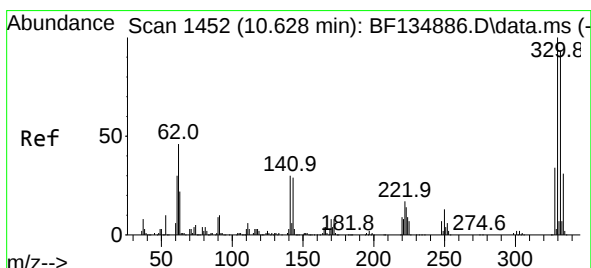
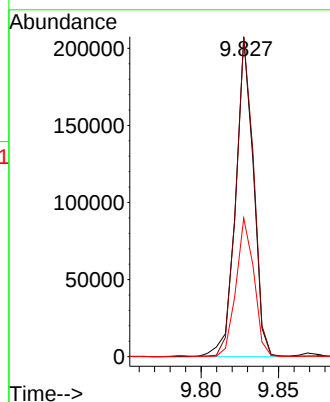
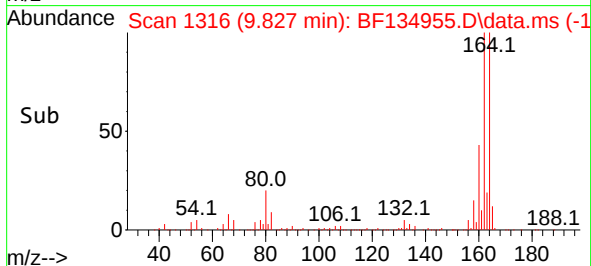
Tgt Ion:	164	Resp:	16474
Ion Ratio	Lower	Upper	
164	100		
162	100.2	82.6	123.8
160	43.4	37.0	55.4

Manual Integrations

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Supervised By :mohammad ahmed 08/28/2023



#42

2,4,6-Tribromophenol

Concen: 6.001 ng

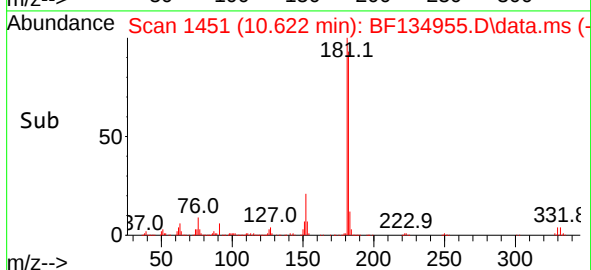
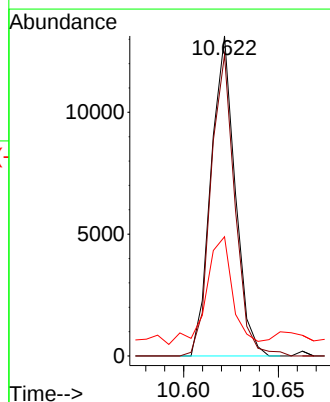
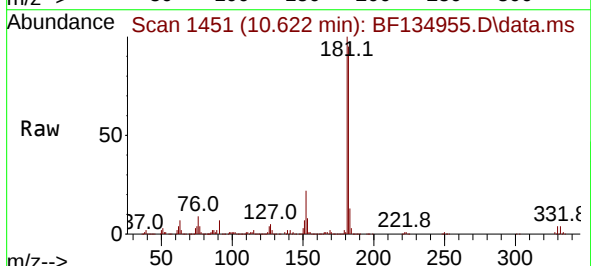
RT: 10.622 min Scan# 1451

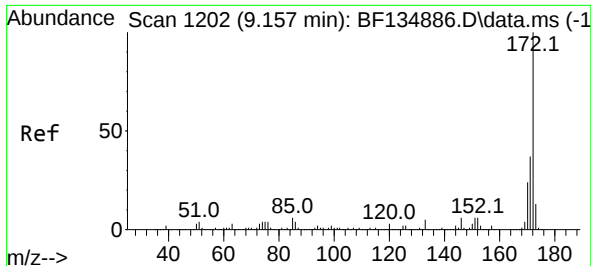
Delta R.T. -0.006 min

Lab File: BF134955.D

Acq: 25 Aug 2023 23:02

Tgt Ion:	330	Resp:	11644
Ion Ratio	Lower	Upper	
330	100		
332	93.9	76.3	114.5
141	36.3	23.4	35.2





#45

2-Fluorobiphenyl

Concen: 5.897 ng

RT: 9.145 min Scan# 1200

Delta R.T. -0.012 min

Lab File: BF134955.D

Acq: 25 Aug 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SB-04(21.5-23)

Tgt Ion:172 Resp: 6284

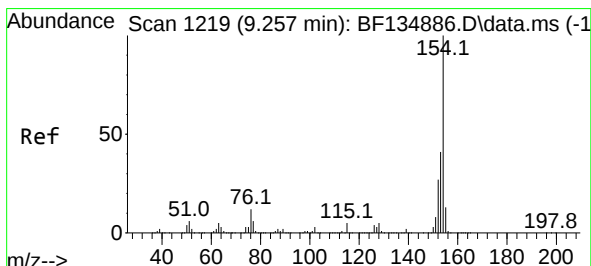
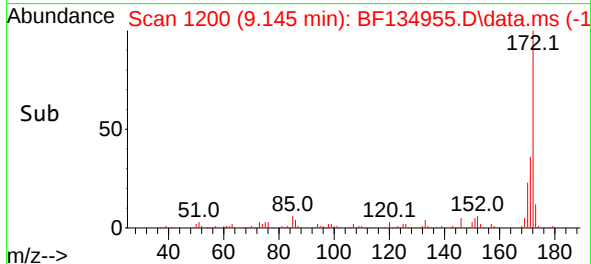
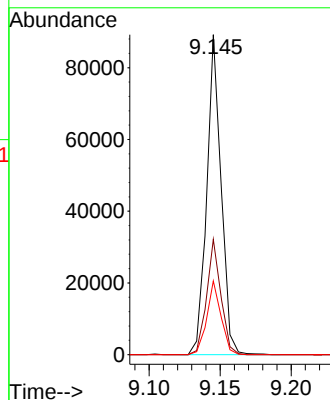
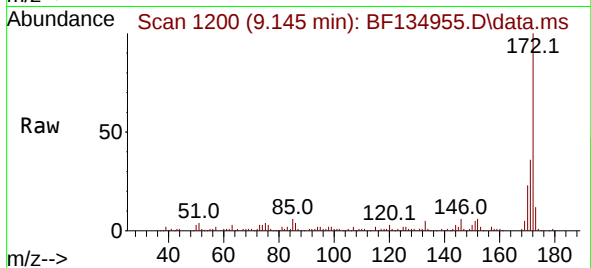
Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.4	44.0
170	23.1	19.6	29.4

Manual Integrations

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Reviewed By :Yogesh Patel 08/28/2023

Supervised By :mohammad ahmed 08/28/2023



#46

1,1'-Biphenyl

Concen: 52.431 ng

RT: 9.251 min Scan# 1218

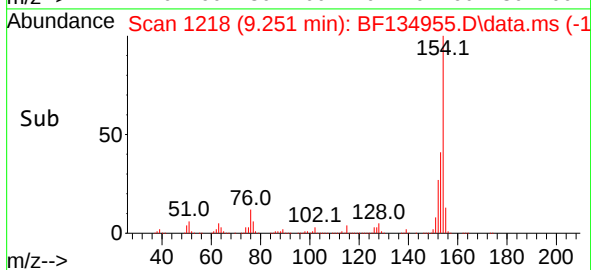
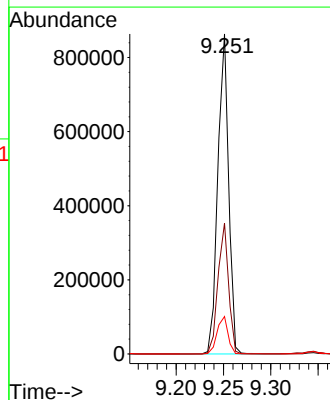
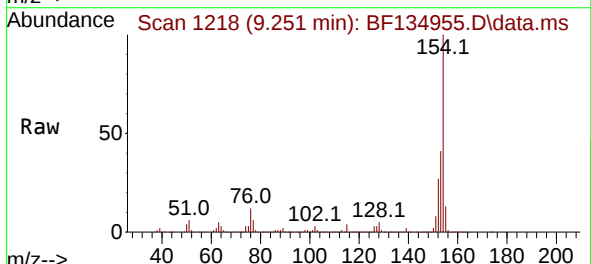
Delta R.T. -0.006 min

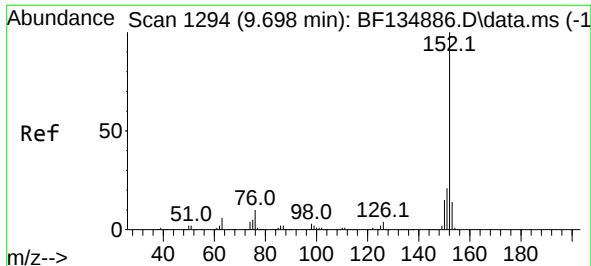
Lab File: BF134955.D

Acq: 25 Aug 2023 23:02

Tgt Ion:154 Resp: 681919

Ion	Ratio	Lower	Upper
154	100		
153	40.9	21.3	61.3
76	11.7	0.0	31.8





#49

Acenaphthylene

Concen: 141.460 ng

RT: 9.698 min Scan# 1294

Delta R.T. 0.000 min

Lab File: BF134955.D

Acq: 25 Aug 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SB-04(21.5-23)

Tgt Ion:152 Resp: 211595

Ion Ratio Lower Upper

152 100

151 21.0 16.5 24.7

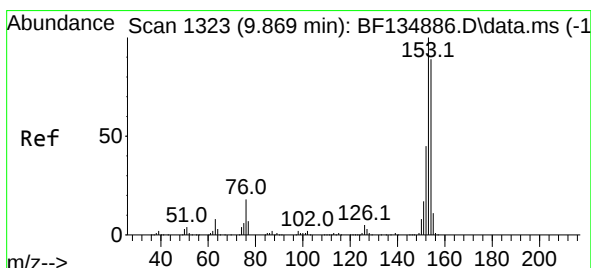
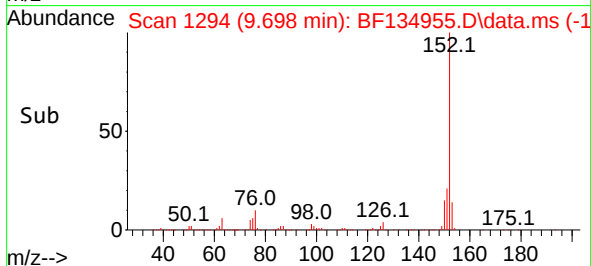
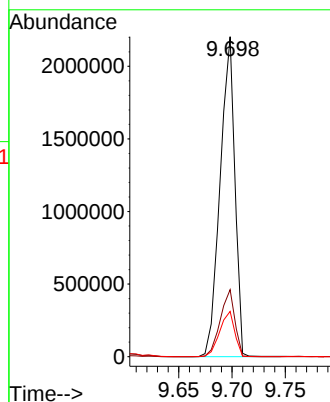
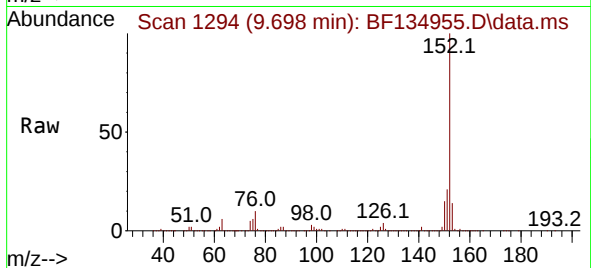
153 14.2 11.3 16.9

Manual Integrations

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Reviewed By :Yogesh Patel 08/28/2023

Supervised By :mohammad ahmed 08/28/2023



#52

Acenaphthene

Concen: 47.806 ng

RT: 9.863 min Scan# 1322

Delta R.T. -0.006 min

Lab File: BF134955.D

Acq: 25 Aug 2023 23:02

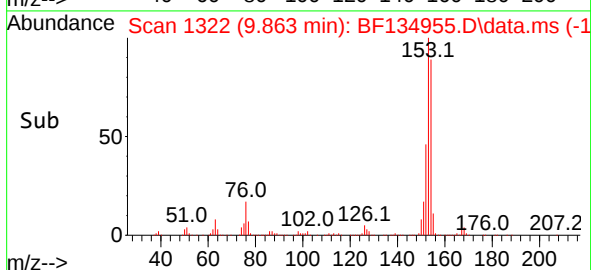
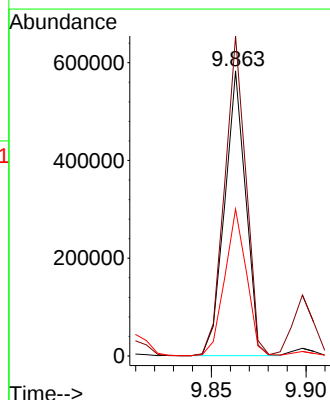
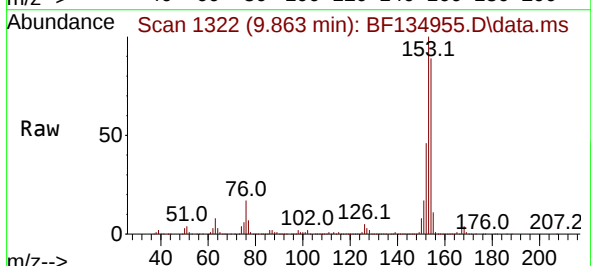
Tgt Ion:154 Resp: 450478

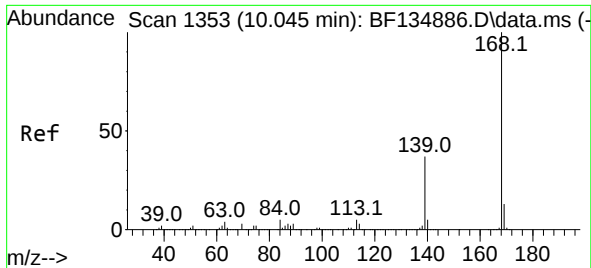
Ion Ratio Lower Upper

154 100

153 112.2 89.6 134.4

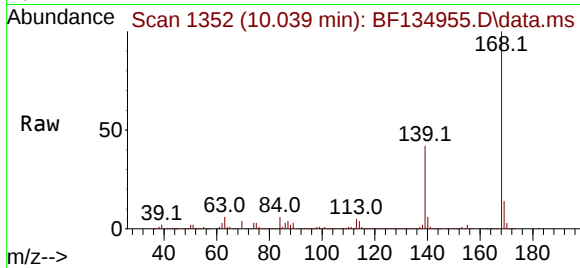
152 51.5 40.5 60.7





#55
Dibenzenofuran
Concen: 108.948 ng
RT: 10.039 min Scan# 1353
Delta R.T. -0.006 min
Lab File: BF134955.D
Acq: 25 Aug 2023 23:02

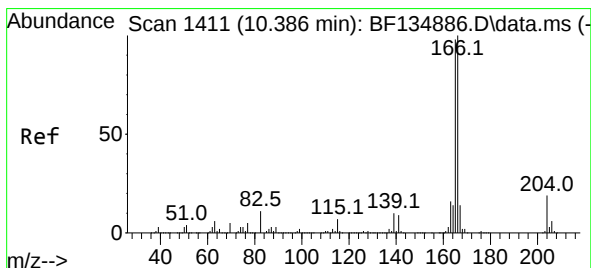
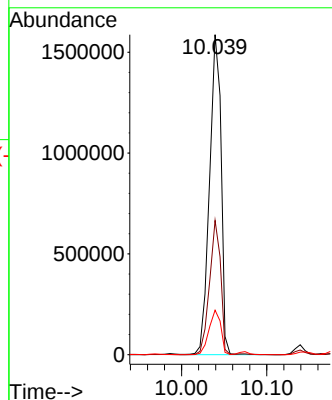
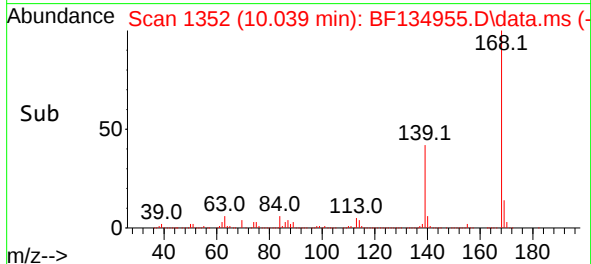
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)



Tgt Ion:168 Resp: 1494709
Ion Ratio Lower Upper
168 100
139 42.0 29.5 44.3
169 13.9 10.7 16.1

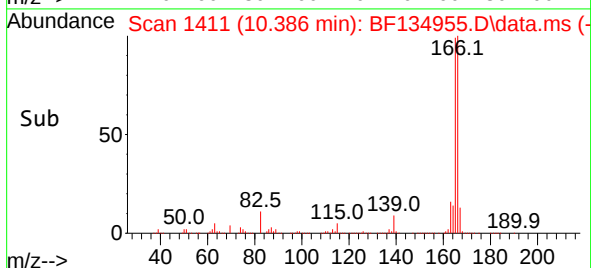
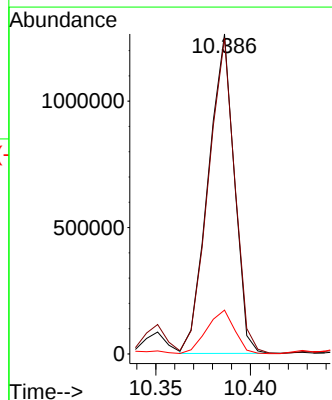
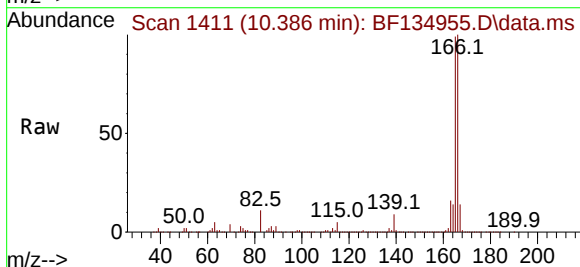
Manual Integrations
APPROVED

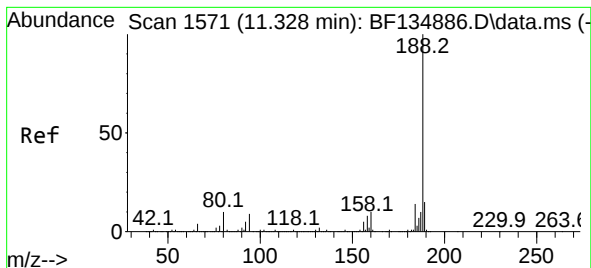
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023



#58
Fluorene
Concen: 116.201 ng
RT: 10.386 min Scan# 1411
Delta R.T. 0.000 min
Lab File: BF134955.D
Acq: 25 Aug 2023 23:02

Tgt Ion:166 Resp: 1209135
Ion Ratio Lower Upper
166 100
165 98.7 78.5 117.7
167 13.7 11.0 16.6





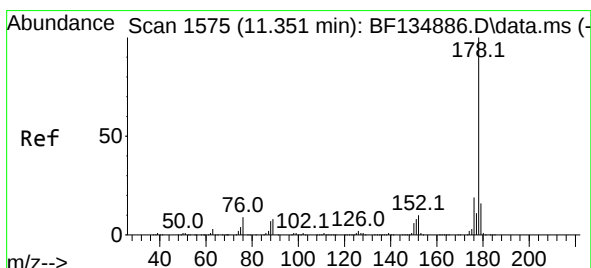
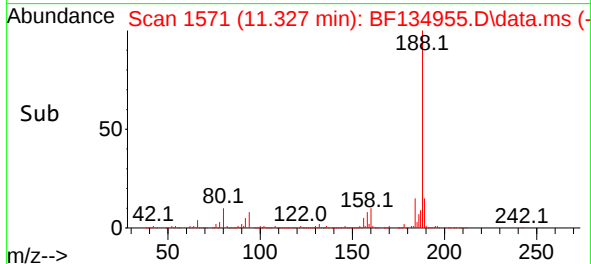
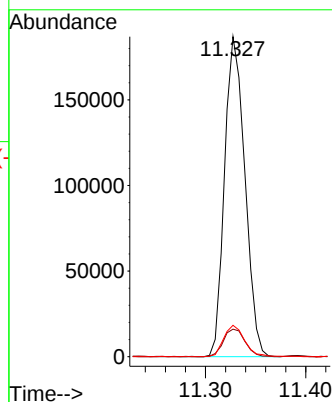
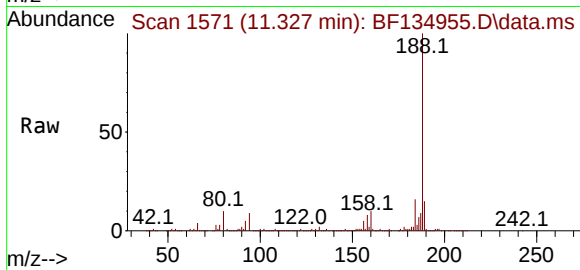
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.327 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF134955.D
Acq: 25 Aug 2023 23:02

Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)

Tgt Ion:188 Resp: 26319
Ion Ratio Lower Upper
188 100
94 8.6 7.5 11.3
80 9.8 7.8 11.6

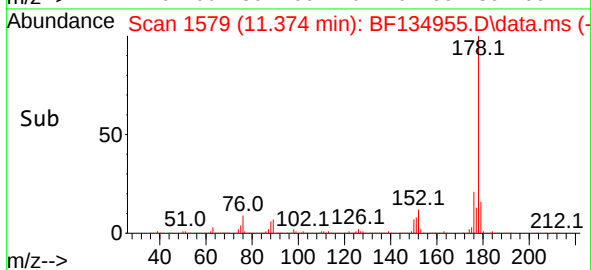
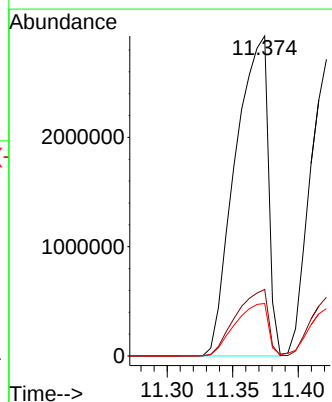
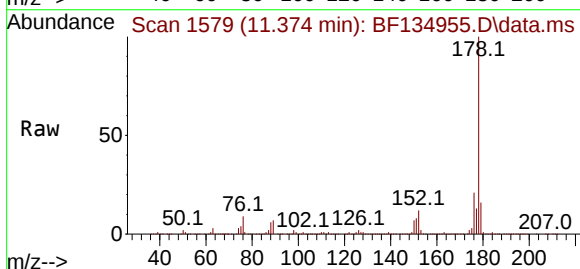
Manual Integrations
APPROVED

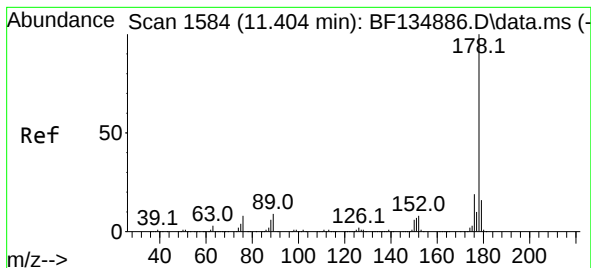
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023



#71
Phenanthrene
Concen: 370.152 ng
RT: 11.374 min Scan# 1579
Delta R.T. 0.023 min
Lab File: BF134955.D
Acq: 25 Aug 2023 23:02

Tgt Ion:178 Resp: 5105065
Ion Ratio Lower Upper
178 100
176 20.8 15.5 23.3
179 16.4 12.6 19.0





#72

Anthracene

Concen: 237.645 ng

RT: 11.422 min Scan# 11

Delta R.T. 0.018 min

Lab File: BF134955.D

Acq: 25 Aug 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SB-04(21.5-23)

Tgt Ion:178 Resp: 3358170

Ion Ratio Lower Upper

178 100

176 19.8 15.0 22.6

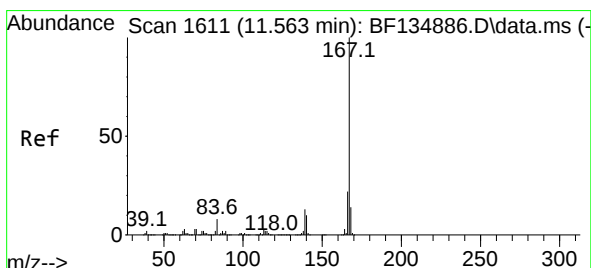
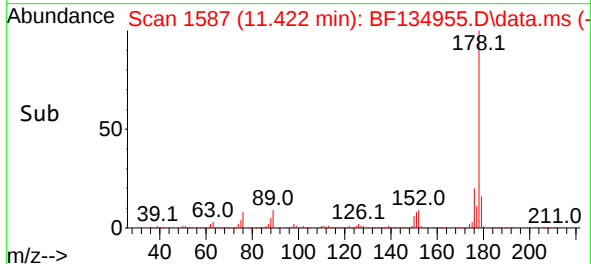
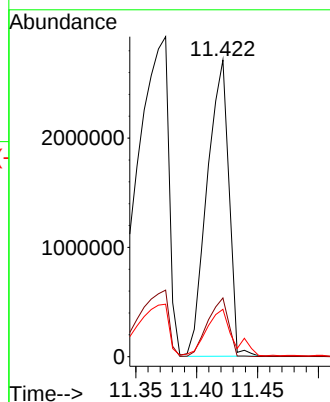
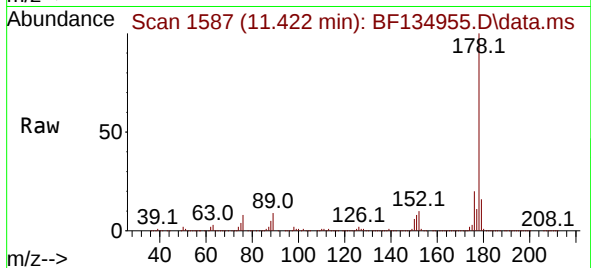
179 16.0 12.5 18.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/28/2023

Supervised By :mohammad ahmed 08/28/2023



#73

Carbazole

Concen: 54.141 ng

RT: 11.563 min Scan# 1611

Delta R.T. -0.000 min

Lab File: BF134955.D

Acq: 25 Aug 2023 23:02

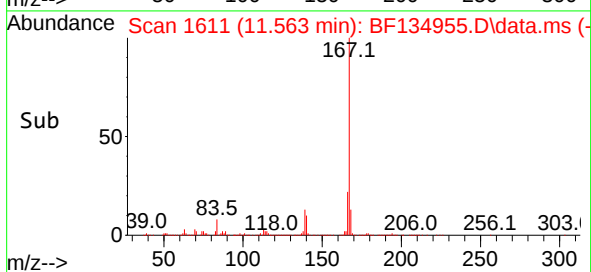
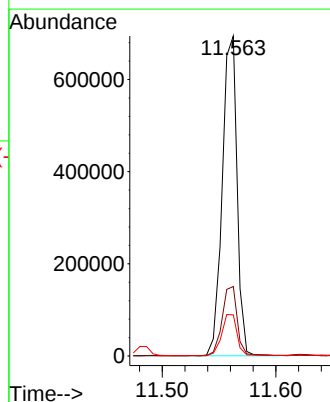
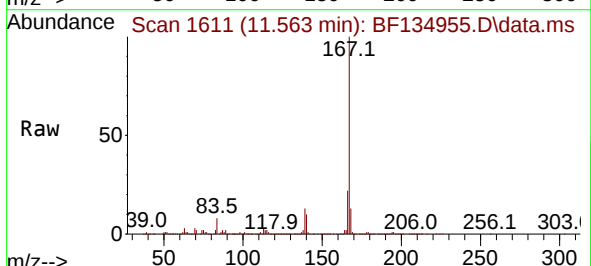
Tgt Ion:167 Resp: 630435

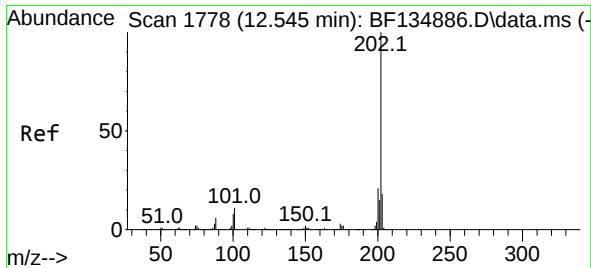
Ion Ratio Lower Upper

167 100

166 21.7 17.4 26.2

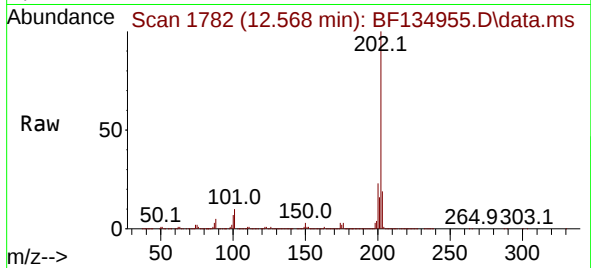
139 12.8 10.4 15.6





#75
Fluoranthene
Concen: 349.700 ng
RT: 12.568 min Scan# 11
Delta R.T. 0.023 min
Lab File: BF134955.D
Acq: 25 Aug 2023 23:02

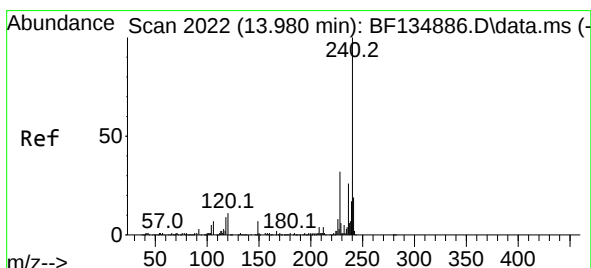
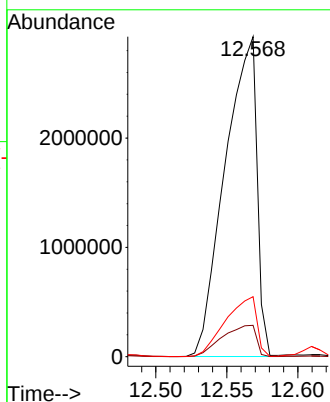
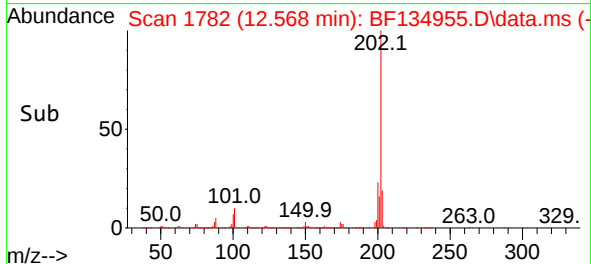
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)



Tgt Ion:202 Resp: 4569814
Ion Ratio Lower Upper
202 100
101 9.8 0.0 30.5
203 18.7 0.0 37.8

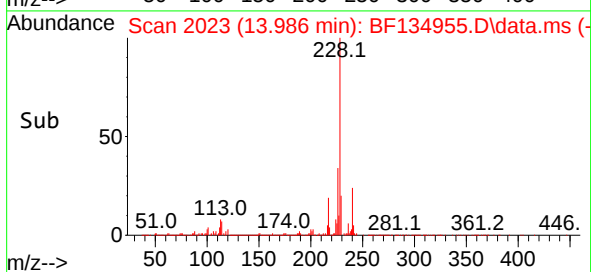
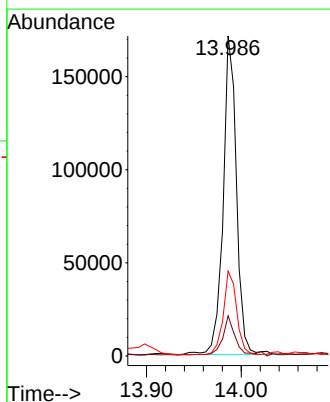
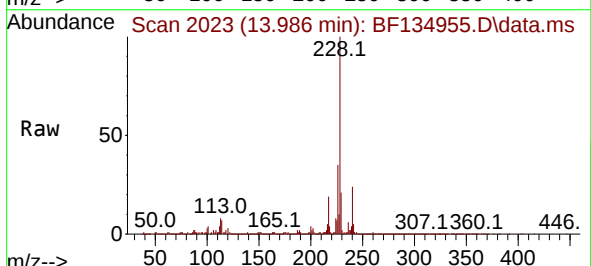
Manual Integrations
APPROVED

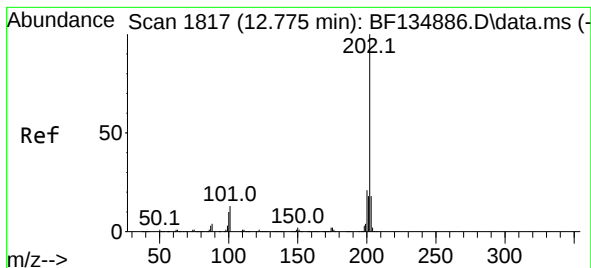
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2023
Delta R.T. 0.006 min
Lab File: BF134955.D
Acq: 25 Aug 2023 23:02

Tgt Ion:240 Resp: 167682
Ion Ratio Lower Upper
240 100
120 12.6 8.6 12.8
236 26.6 20.6 31.0





#78

Pyrene

Concen: 230.491 ng

RT: 12.798 min Scan# 1821

Delta R.T. 0.023 min

Lab File: BF134955.D

Acq: 25 Aug 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SB-04(21.5-23)

Tgt Ion:202 Resp: 4097828

Ion Ratio Lower Upper

202 100

200 22.1 17.1 25.7

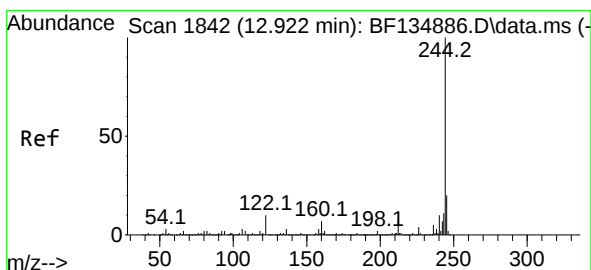
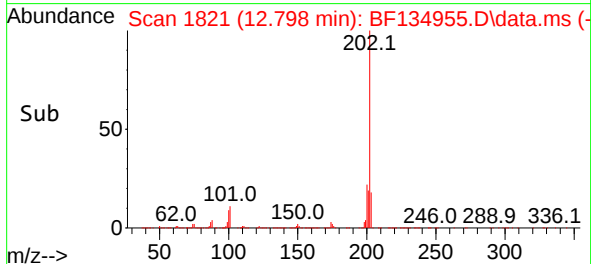
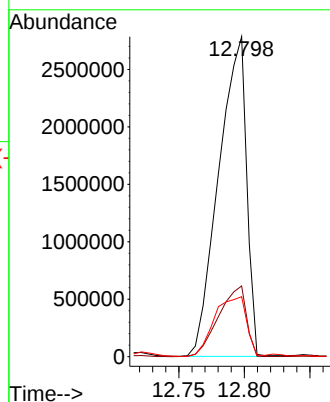
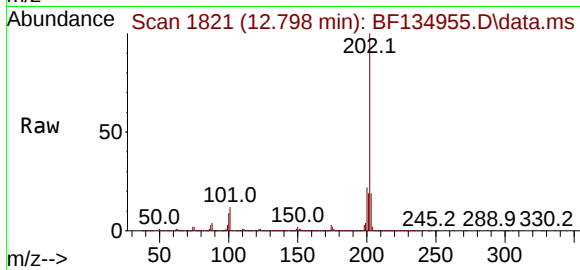
203 18.7 14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/28/2023

Supervised By :mohammad ahmed 08/28/2023



#79

Terphenyl-d14

Concen: 5.271 ng

RT: 12.916 min Scan# 1841

Delta R.T. -0.006 min

Lab File: BF134955.D

Acq: 25 Aug 2023 23:02

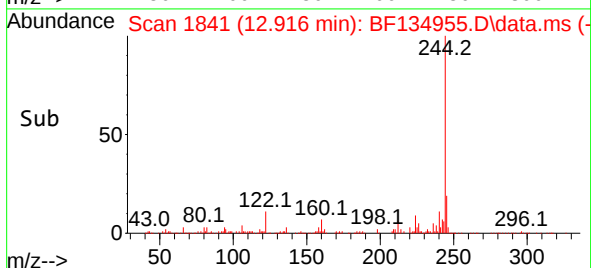
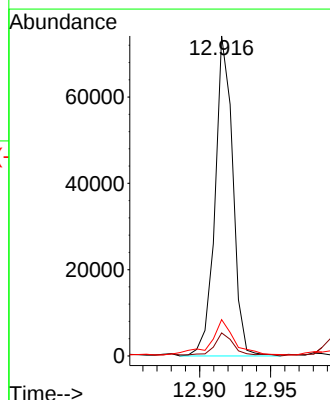
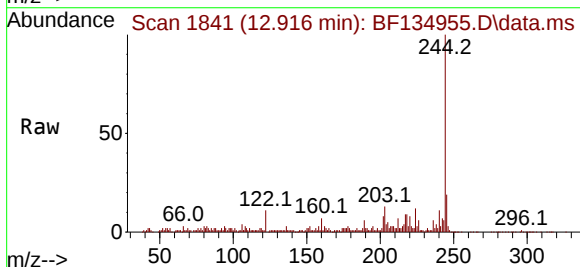
Tgt Ion:244 Resp: 64264

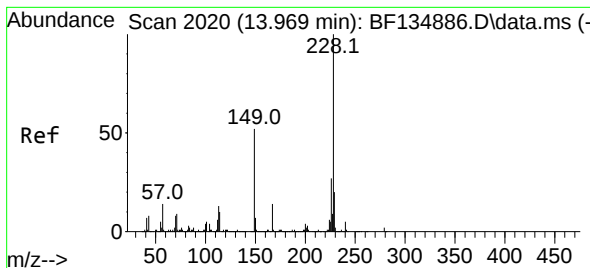
Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

122 11.4 8.2 12.4





#81

Benzo(a)anthracene

Concen: 143.133 ng m

RT: 13.980 min Scan# 20

Delta R.T. 0.012 min

Lab File: BF134955.D

Acq: 25 Aug 2023 23:02

Instrument :

BNF

ClientSampleId :

SB-04(21.5-23)

Tgt Ion:228 Resp: 163752

Ion Ratio Lower Upper

228 100

226 35.3 21.8 32.6

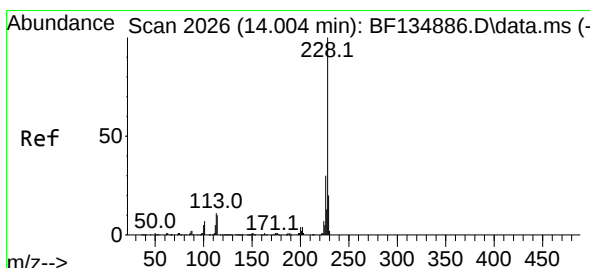
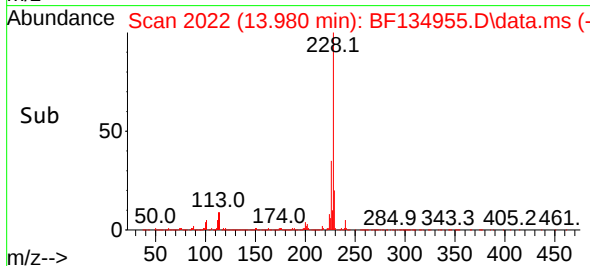
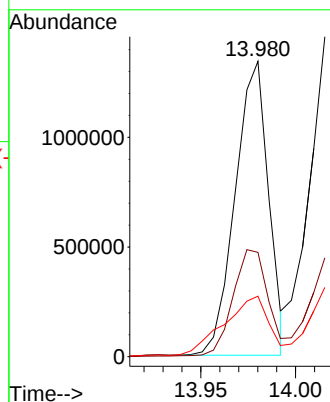
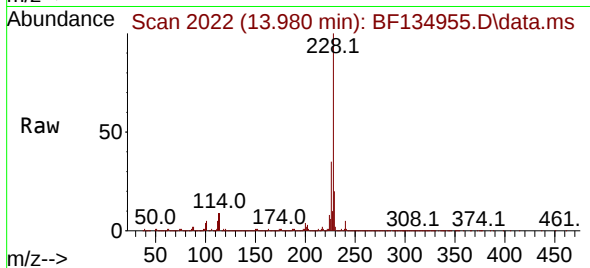
229 20.5 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/28/2023

Supervised By :mohammad ahmed 08/28/2023



#83

Chrysene

Concen: 187.637 ng

RT: 14.021 min Scan# 2029

Delta R.T. 0.017 min

Lab File: BF134955.D

Acq: 25 Aug 2023 23:02

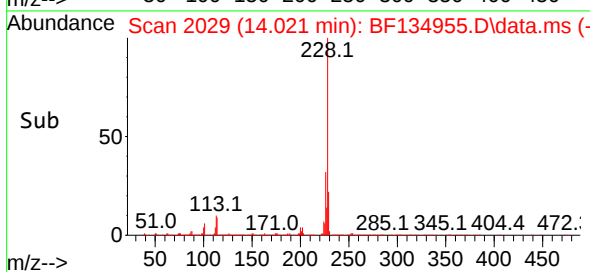
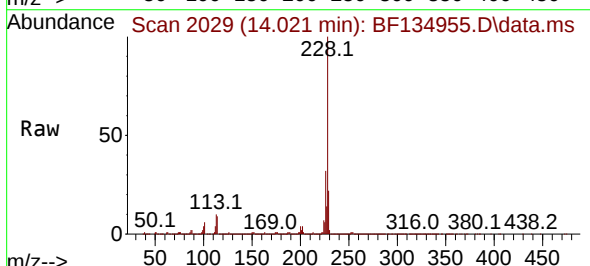
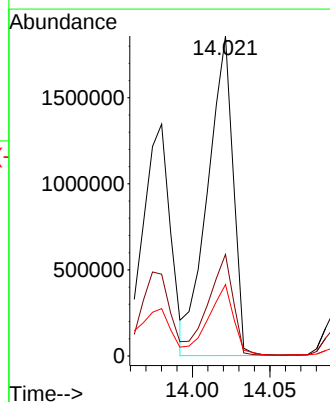
Tgt Ion:228 Resp: 2118039

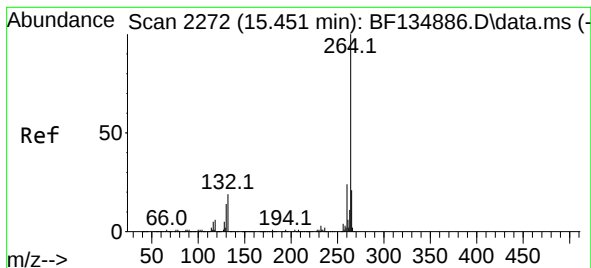
Ion Ratio Lower Upper

228 100

226 31.7 24.2 36.2

229 22.3 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.462 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF134955.D

Acq: 25 Aug 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SB-04(21.5-23)

Tgt Ion:264 Resp: 14165

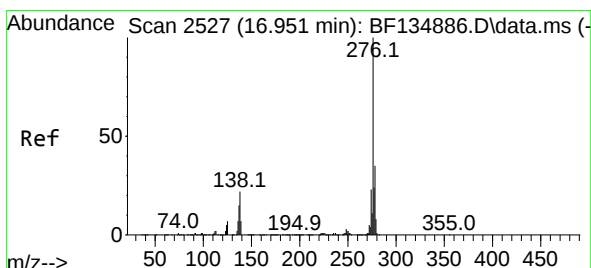
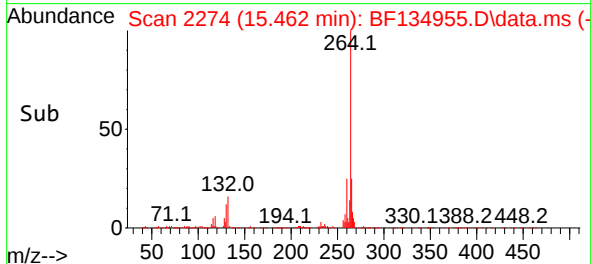
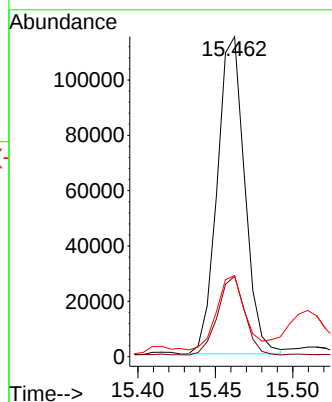
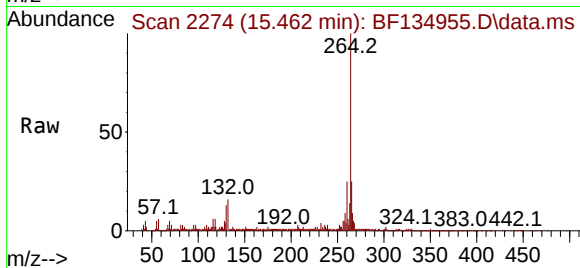
Ion	Ratio	Lower	Upper
264	100		
260	25.2	19.0	28.6
265	25.3	17.1	25.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/28/2023

Supervised By :mohammad ahmed 08/28/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 58.261 ng

RT: 16.962 min Scan# 2529

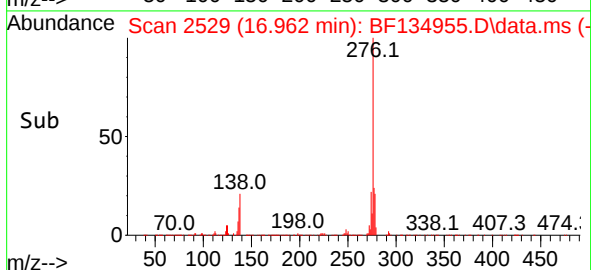
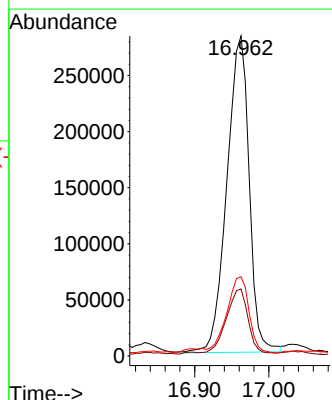
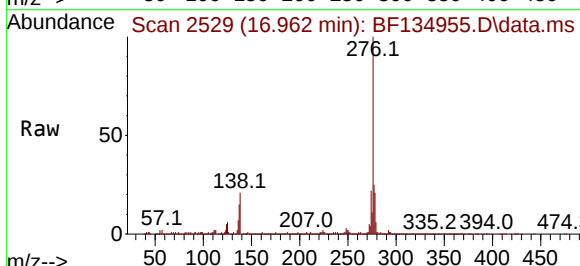
Delta R.T. 0.012 min

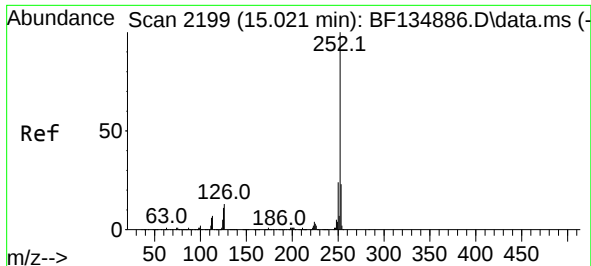
Lab File: BF134955.D

Acq: 25 Aug 2023 23:02

Tgt Ion:276 Resp: 589912

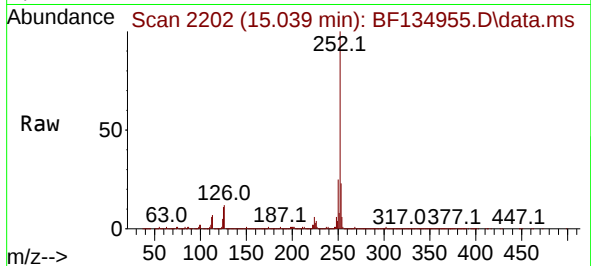
Ion	Ratio	Lower	Upper
276	100		
138	20.2	19.7	29.5
277	25.1	20.1	30.1





#88
Benzo(b)fluoranthene
Concen: 170.014 ng m
RT: 15.039 min Scan# 2199
Delta R.T. 0.017 min
Lab File: BF134955.D
Acq: 25 Aug 2023 23:02

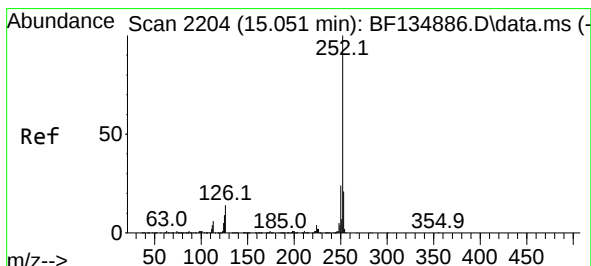
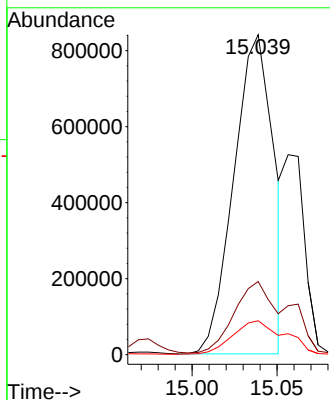
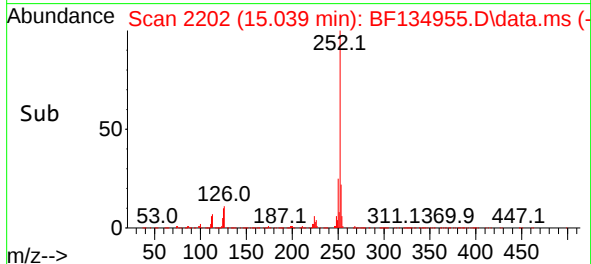
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)



Tgt Ion:252 Resp: 1358760
Ion Ratio Lower Upper
252 100
253 22.9 18.1 27.1
125 10.6 8.4 12.6

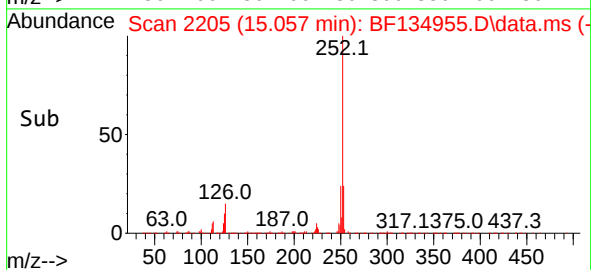
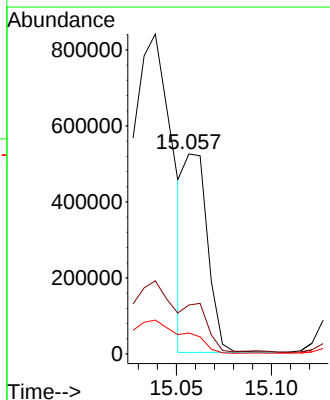
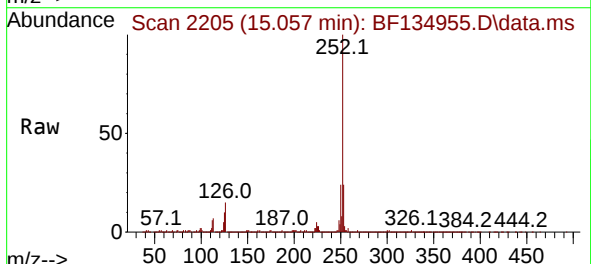
Manual Integrations
APPROVED

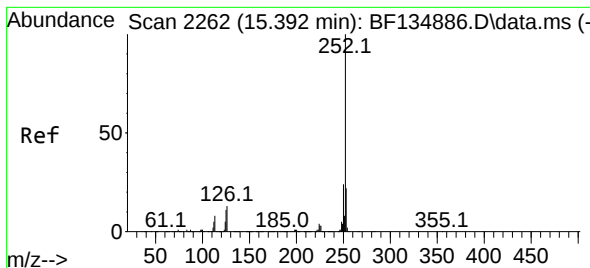
Reviewed By :Yogesh Patel 08/28/2023
Supervised By :mohammad ahmed 08/28/2023



#89
Benzo(k)fluoranthene
Concen: 56.406 ng m
RT: 15.057 min Scan# 2205
Delta R.T. 0.006 min
Lab File: BF134955.D
Acq: 25 Aug 2023 23:02

Tgt Ion:252 Resp: 442676
Ion Ratio Lower Upper
252 100
253 24.5 17.1 25.7
125 10.5 8.0 12.0





#90

Benzo(a)pyrene

Concen: 130.102 ng

RT: 15.409 min Scan# 21

Delta R.T. 0.017 min

Lab File: BF134955.D

Acq: 25 Aug 2023 23:02

Instrument :

BNA_F

ClientSampleId :

SB-04(21.5-23)

Tgt Ion:252 Resp: 103800

Ion Ratio Lower Upper

252 100

253 23.2 17.6 26.4

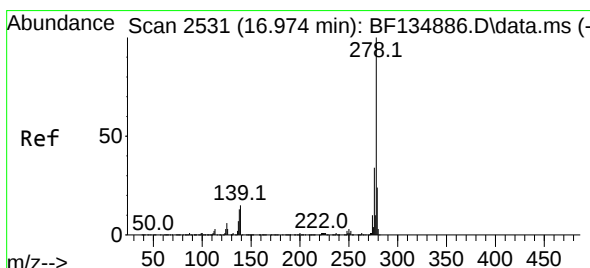
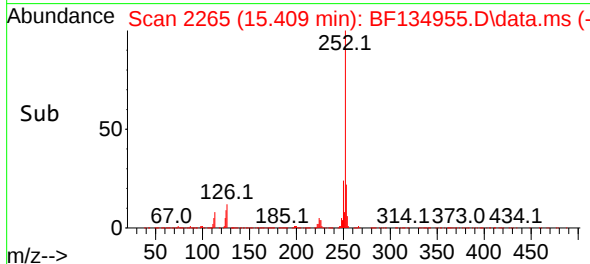
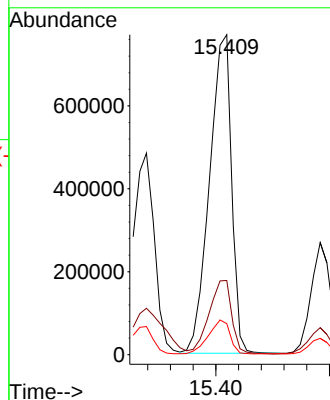
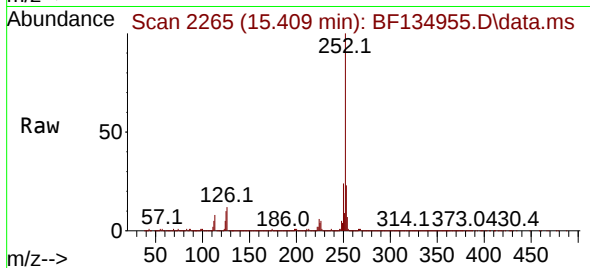
125 9.7 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/28/2023

Supervised By :mohammad ahmed 08/28/2023



#91

Dibenzo(a,h)anthracene

Concen: 14.706 ng

RT: 16.968 min Scan# 2530

Delta R.T. -0.006 min

Lab File: BF134955.D

Acq: 25 Aug 2023 23:02

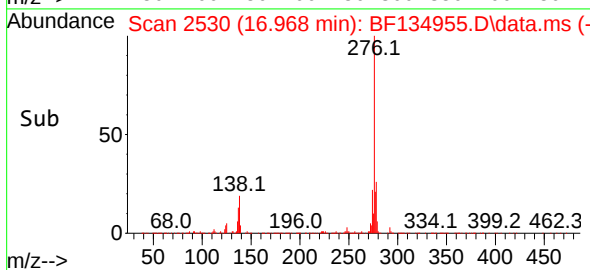
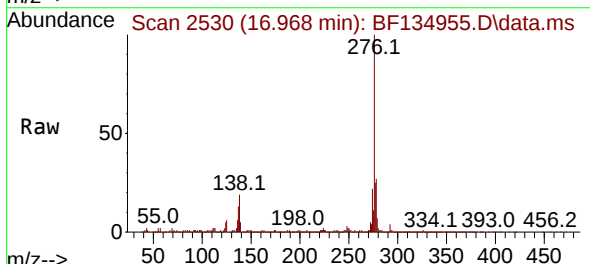
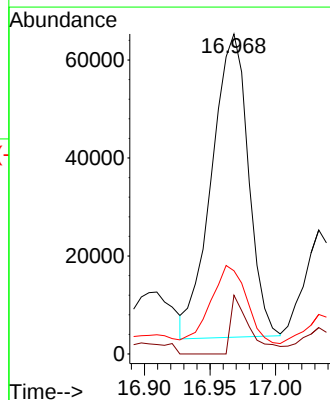
Tgt Ion:278 Resp: 120482

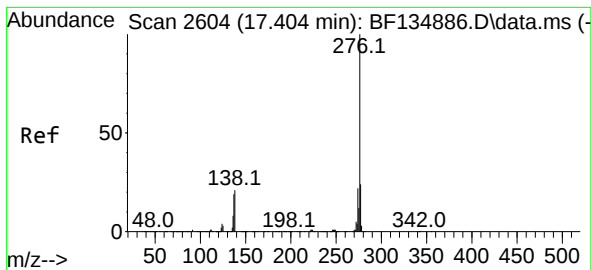
Ion Ratio Lower Upper

278 100

139 18.4 12.2 18.4

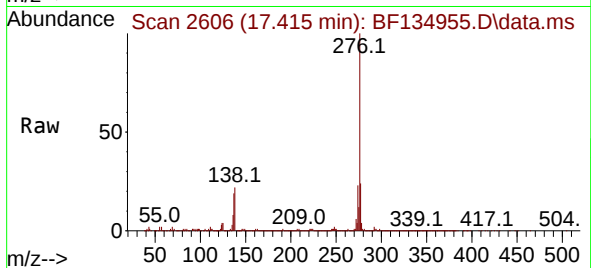
279 26.0 19.1 28.7





#92
 Benzo(g,h,i)perylene
 Concen: 66.281 ng
 RT: 17.415 min Scan# 20
 Delta R.T. 0.012 min
 Lab File: BF134955.D
 Acq: 25 Aug 2023 23:02

Instrument :
 BNA_F
 ClientSampleId :
 SB-04(21.5-23)



Tgt Ion:276 Resp: 55587
 Ion Ratio Lower Upper
 276 100
 277 24.1 19.2 28.8
 138 22.0 17.0 25.6

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/28/2023
 Supervised By :mohammad ahmed 08/28/2023

