

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091323\
 Data File : BF135234.D
 Acq On : 13 Sep 2023 21:26
 Operator : CG\JU
 Sample : 04299-08DL 100X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-04-COMPDL

Manual Integrations
 APPROVED

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

Quant Time: Sep 14 02:24:09 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	97182	20.000	ng	0.00
21) Naphthalene-d8	8.045	136	350095	20.000	ng	0.00
39) Acenaphthene-d10	9.798	164	145367	20.000	ng	0.00
64) Phenanthrene-d10	11.292	188	219400	20.000	ng	0.00
76) Chrysene-d12	13.951	240	180568	20.000	ng	0.00
86) Perylene-d12	15.415	264	181346	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.392	112	6350	1.063	ng	0.00
7) Phenol-d6	6.404	99	9160	1.206	ng	0.00
23) Nitrobenzene-d5	7.322	82	4875	0.757	ng	-0.01
42) 2,4,6-Tribromophenol	10.592	330	993	0.687	ng	0.00
45) 2-Fluorobiphenyl	9.116	172	10741	1.115	ng	-0.01
79) Terphenyl-d14	12.886	244	8830	0.758	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.069	128	1656351	97.375	ng	99
37) 2-Methylnaphthalene	8.757	142	725902	63.486	ng	99
38) 1-Methylnaphthalene	8.857	142	550534	51.427	ng	99
46) 1,1'-Biphenyl	9.222	154	87267	7.812	ng	98
49) Acenaphthylene	9.657	152	140523	10.432	ng	# 92
52) Acenaphthene	9.833	154	160718	20.197	ng	98
55) Dibenzofuran	10.004	168	36337	2.992	ng	# 64
58) Fluorene	10.351	166	261526	28.015	ng	99
71) Phenanthrene	11.321	178	875730	84.394	ng	100
72) Anthracene	11.368	178	167243	15.680	ng	100
75) Fluoranthene	12.515	202	440242	40.716	ng	97
78) Pyrene	12.745	202	774379	45.044	ng	100
81) Benzo(a)anthracene	13.939	228	286783m	24.596	ng	
83) Chrysene	13.974	228	266654	23.002	ng	97
87) Indeno(1,2,3-cd)pyrene	16.892	276	57429	4.830	ng	98
88) Benzo(b)fluoranthene	14.992	252	174771m	17.803	ng	
89) Benzo(k)fluoranthene	15.015	252	43206m	4.455	ng	
90) Benzo(a)pyrene	15.356	252	185188	19.781	ng	99
91) Dibenzo(a,h)anthracene	16.892	278	19743m	2.029	ng	
92) Benzo(g,h,i)perylene	17.333	276	72872	7.172	ng	97

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

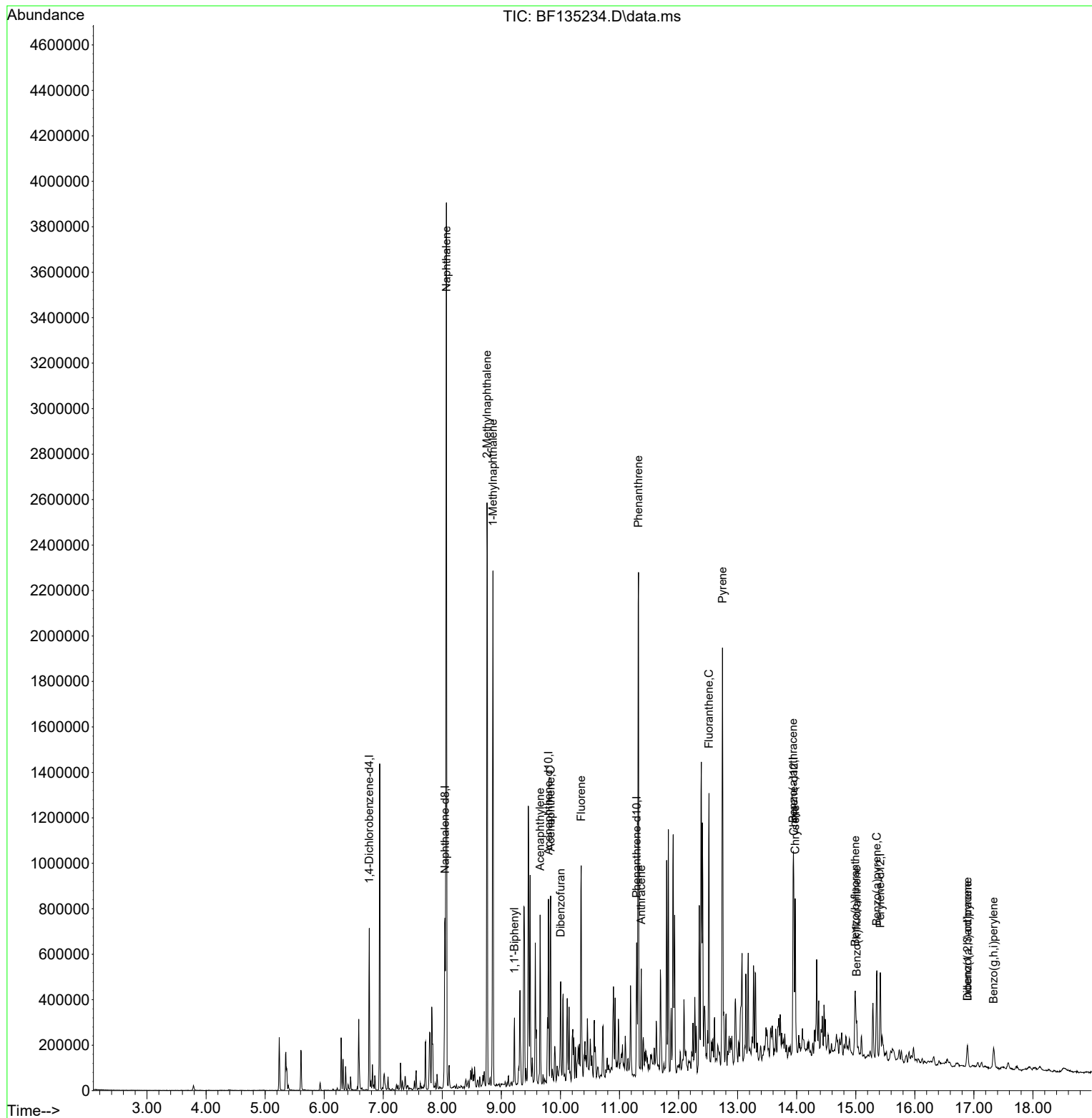
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091323\
Data File : BF135234.D
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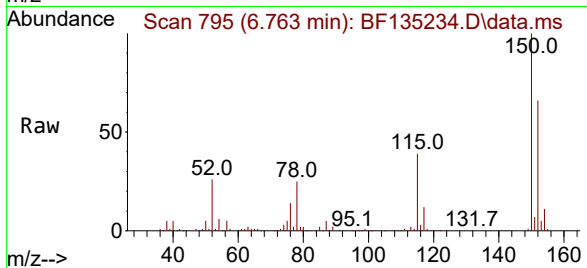
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.763 min Scan# 795
Delta R.T. -0.000 min
Lab File: BF135234.D
Acq: 13 Sep 2023 21:26

Instrument :

BNA_F

ClientSampleId :

SB-04-COMPDL

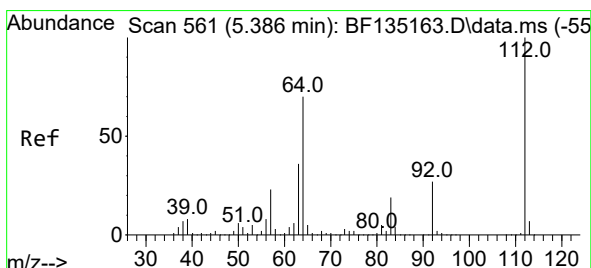
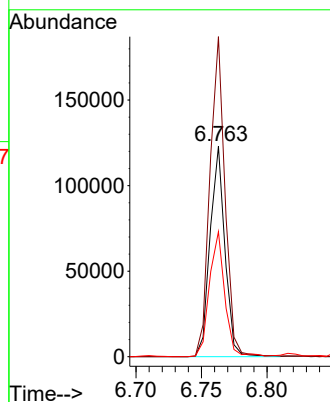
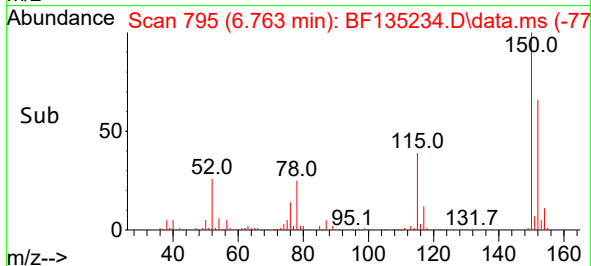


Tgt Ion:152 Resp: 97182
Ion Ratio Lower Upper
152 100
150 152.1 127.8 191.6
115 59.4 49.8 74.8

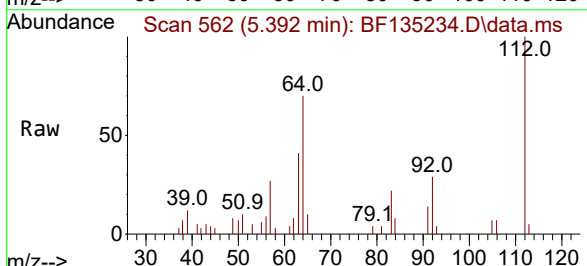
Manual Integrations

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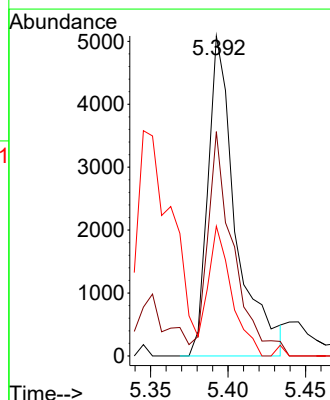
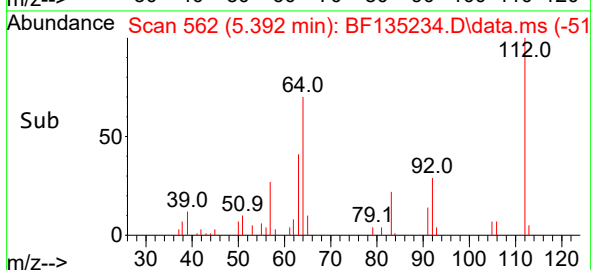
Reviewed By :Yogesh Patel 09/14/2023
Supervised By :mohammad ahmed 09/14/2023

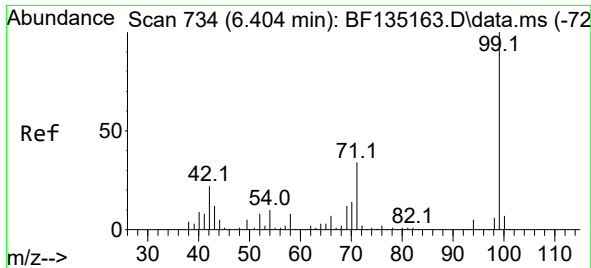


#5
2-Fluorophenol
Concen: 1.063 ng
RT: 5.392 min Scan# 562
Delta R.T. 0.006 min
Lab File: BF135234.D
Acq: 13 Sep 2023 21:26



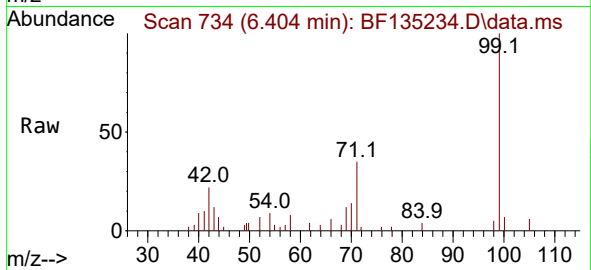
Tgt Ion:112 Resp: 6350
Ion Ratio Lower Upper
112 100
64 70.1 55.9 83.9
63 40.6 29.0 43.6





#7
Phenol-d6
Concen: 1.206 ng
RT: 6.404 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF135234.D
Acq: 13 Sep 2023 21:26

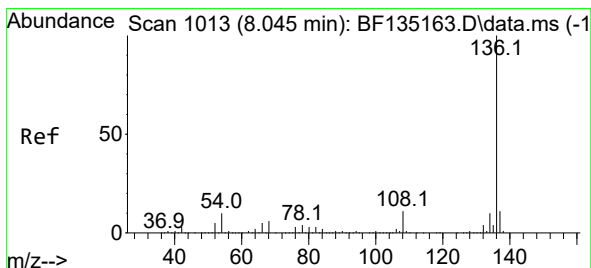
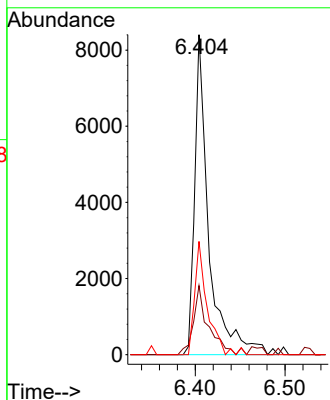
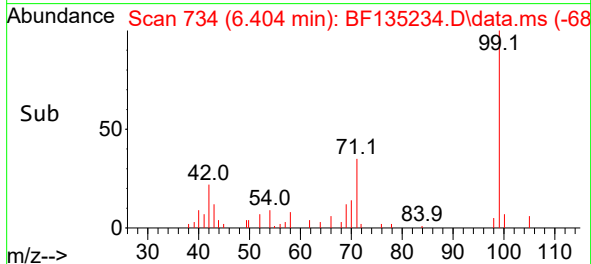
Instrument :
BNA_F
ClientSampleId :
SB-04-COMPDL



Tgt Ion: 99 Resp: 9160
Ion Ratio Lower Upper
99 100
42 21.6 17.9 26.9
71 35.4 27.0 40.6

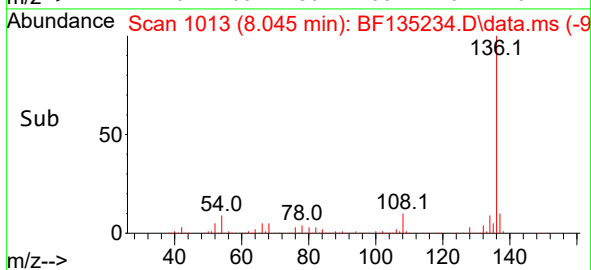
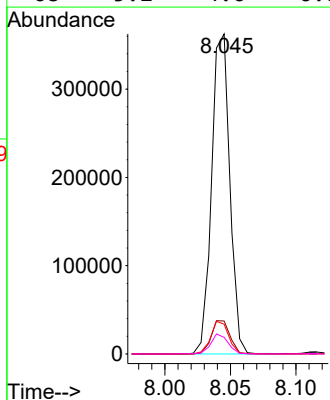
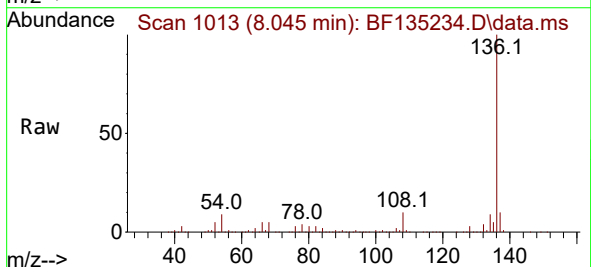
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Supervised By :mohammad ahmed 09/14/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.045 min Scan# 1013
Delta R.T. 0.000 min
Lab File: BF135234.D
Acq: 13 Sep 2023 21:26

Tgt Ion:136 Resp: 350095
Ion Ratio Lower Upper
136 100
137 10.3 8.8 13.2
54 9.3 7.7 11.5
68 5.2 4.6 6.8





#23

Nitrobenzene-d5

Concen: 0.757 ng

RT: 7.322 min Scan# 892

Delta R.T. -0.012 min

Lab File: BF135234.D

Acq: 13 Sep 2023 21:26

Instrument :

BNA_F

ClientSampleId :

SB-04-COMPDL

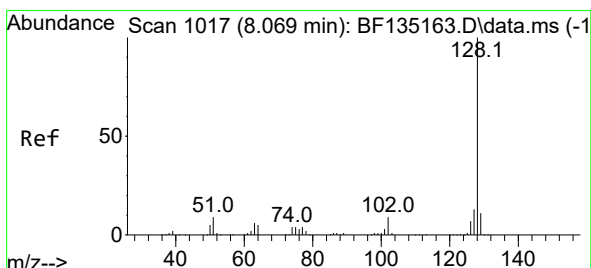
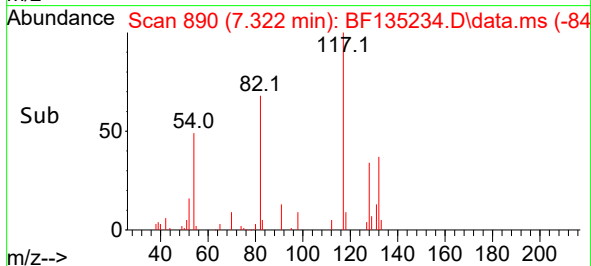
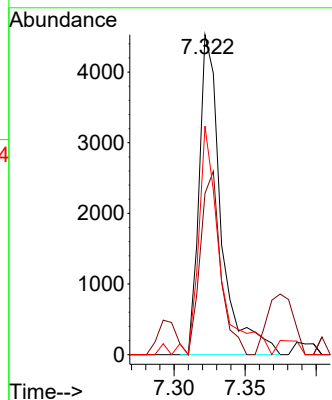
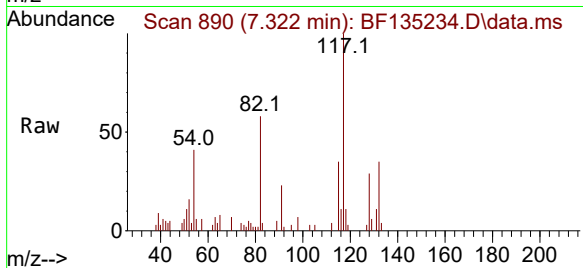
Tgt Ion:	82	Resp:	4875
Ion Ratio	Lower	Upper	
82	100		
128	50.4	35.8	53.6
54	71.4	50.6	76.0

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Supervised By :mohammad ahmed 09/14/2023



#31

Naphthalene

Concen: 97.375 ng

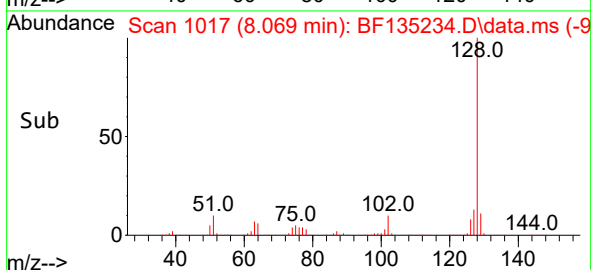
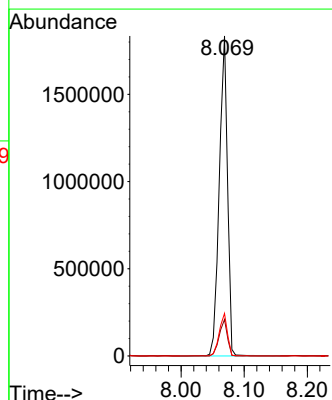
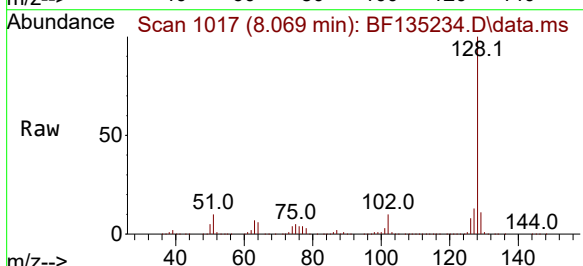
RT: 8.069 min Scan# 1017

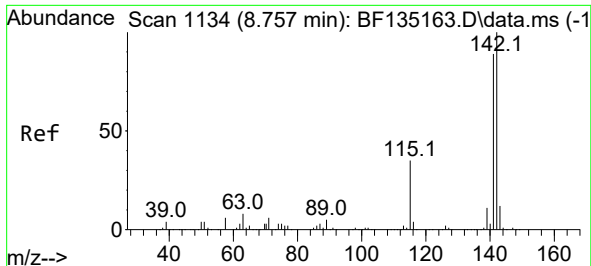
Delta R.T. 0.000 min

Lab File: BF135234.D

Acq: 13 Sep 2023 21:26

Tgt Ion:	128	Resp:	1656351
Ion Ratio	Lower	Upper	
128	100		
129	11.4	8.7	13.1
127	13.3	10.7	16.1





#37

2-Methylnaphthalene

Concen: 63.486 ng

RT: 8.757 min Scan# 1134

Delta R.T. 0.000 min

Lab File: BF135234.D

Acq: 13 Sep 2023 21:26

Instrument :

BNA_F

ClientSampleId :

SB-04-COMPD

Tgt Ion:142 Resp: 72590

Ion Ratio Lower Upper

142 100

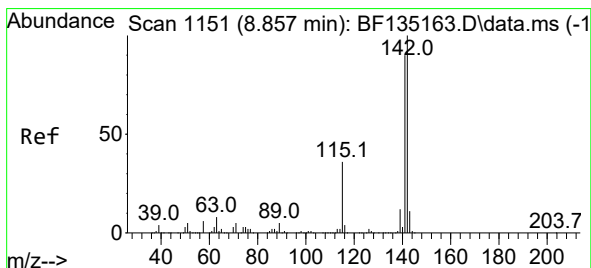
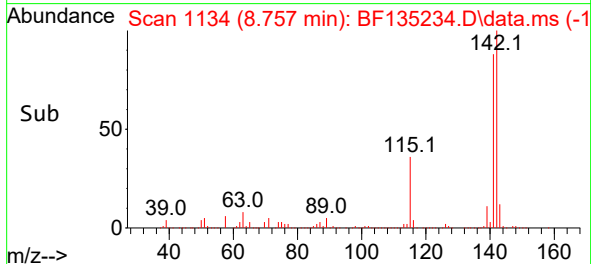
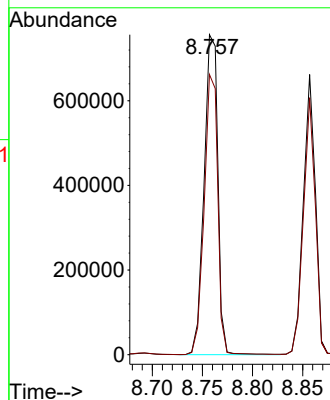
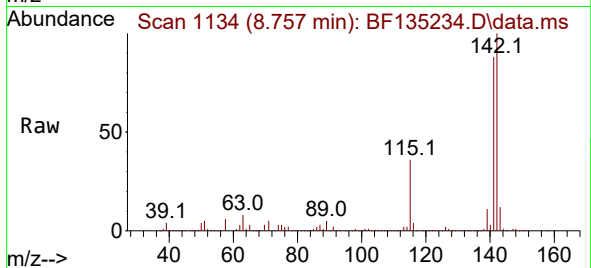
141 87.6 71.0 106.6

Manual Integrations

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Reviewed By :Yogesh Patel 09/14/2023

Supervised By :mohammad ahmed 09/14/2023



#38

1-Methylnaphthalene

Concen: 51.427 ng

RT: 8.857 min Scan# 1151

Delta R.T. 0.000 min

Lab File: BF135234.D

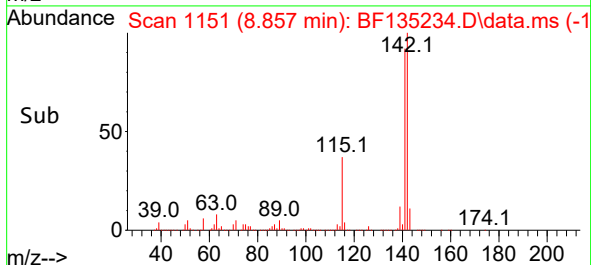
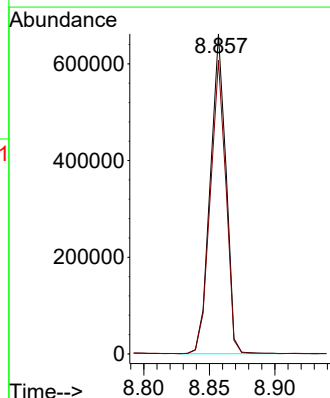
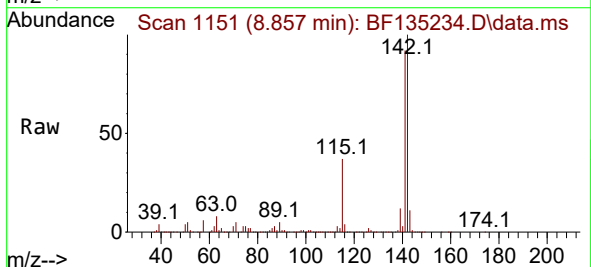
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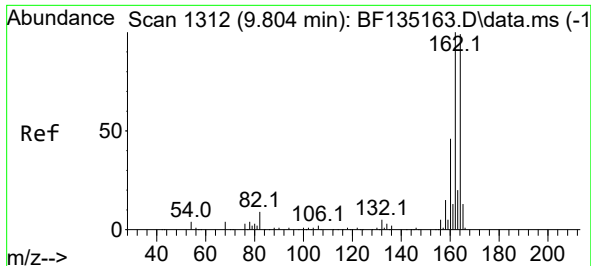
Tgt Ion:142 Resp: 550534

Ion Ratio Lower Upper

142 100

141 91.7 72.4 108.6





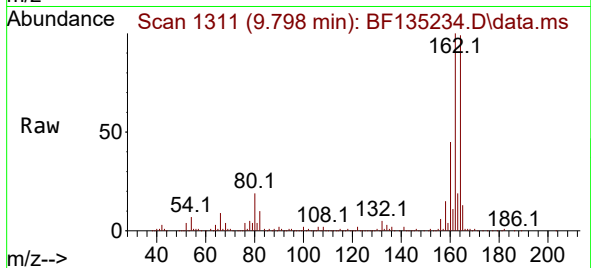
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.798 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135234.D
Acq: 13 Sep 2023 21:26

Instrument :

BNA_F

ClientSampleId :

SB-04-COMPDL

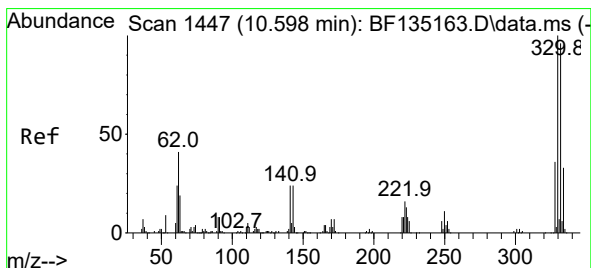
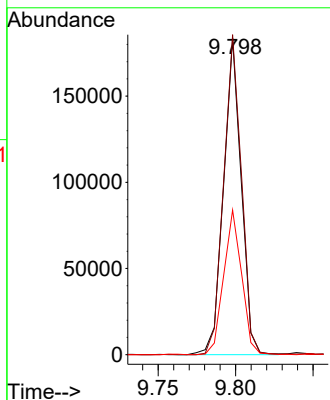
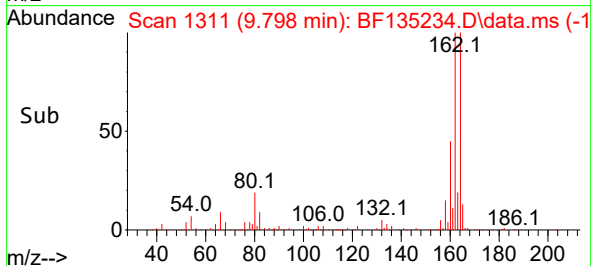


Tgt Ion:164 Resp: 14536
Ion Ratio Lower Upper
164 100
162 101.0 81.0 121.4
160 45.7 37.0 55.4

Manual Integrations

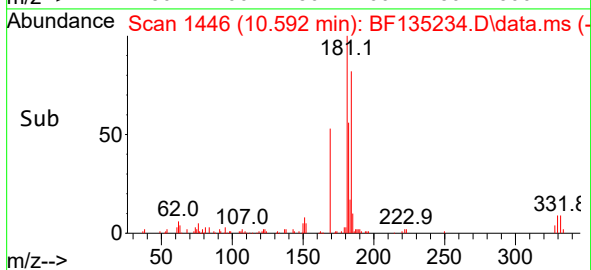
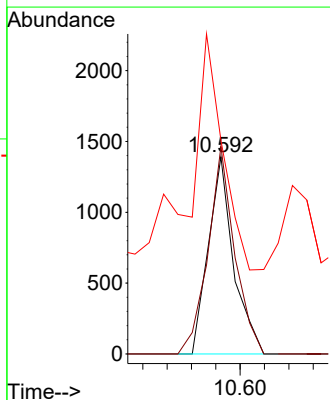
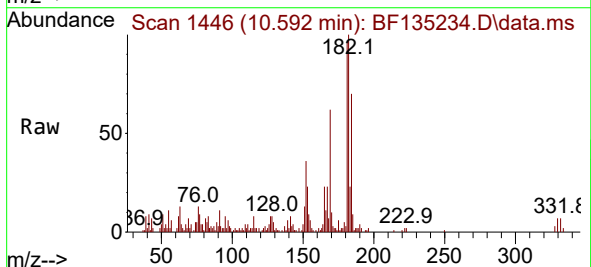
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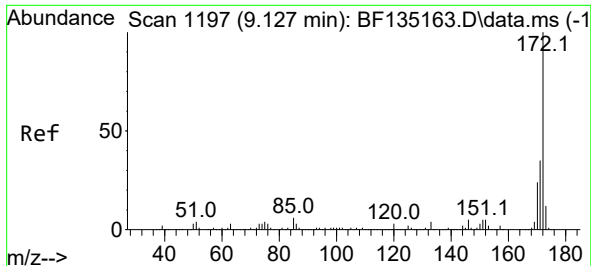
Reviewed By :Yogesh Patel 09/14/2023
Supervised By :mohammad ahmed 09/14/2023



#42
2,4,6-Tribromophenol
Concen: 0.687 ng
RT: 10.592 min Scan# 1446
Delta R.T. -0.006 min
Lab File: BF135234.D
Acq: 13 Sep 2023 21:26

Tgt Ion:330 Resp: 993
Ion Ratio Lower Upper
330 100
332 111.7 77.3 115.9
141 157.9 25.8 38.8#





#45

2-Fluorobiphenyl

Concen: 1.115 ng

RT: 9.116 min Scan# 1195

Delta R.T. -0.012 min

Lab File: BF135234.D

Acq: 13 Sep 2023 21:26

Instrument :

BNA_F

ClientSampleId :

SB-04-COMPD

Tgt Ion:172 Resp: 1074

Ion Ratio Lower Upper

172 100

171 32.8 28.4 42.6

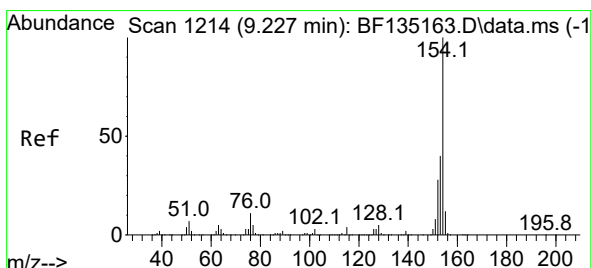
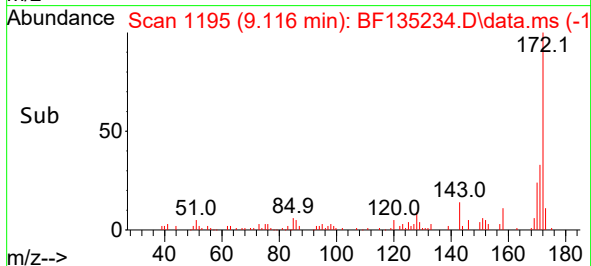
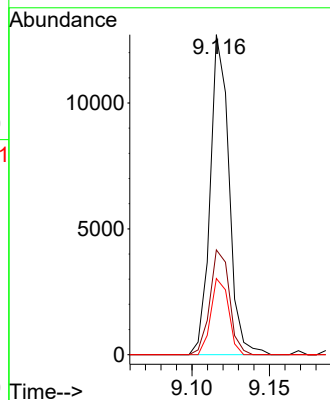
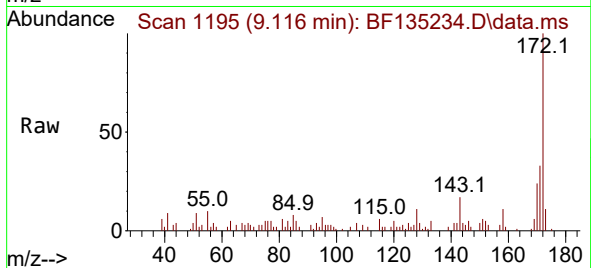
170 23.8 19.0 28.4

Manual Integrations

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Supervised By :mohammad ahmed 09/14/2023



#46

1,1'-Biphenyl

Concen: 7.812 ng

RT: 9.222 min Scan# 1213

Delta R.T. -0.006 min

Lab File: BF135234.D

Acq: 13 Sep 2023 21:26

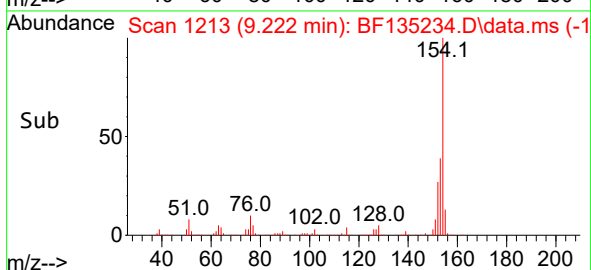
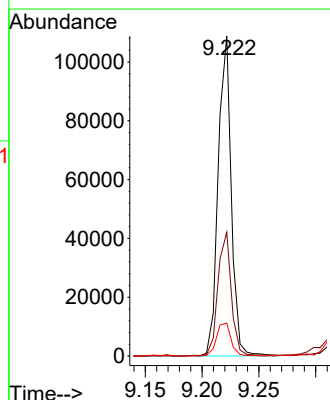
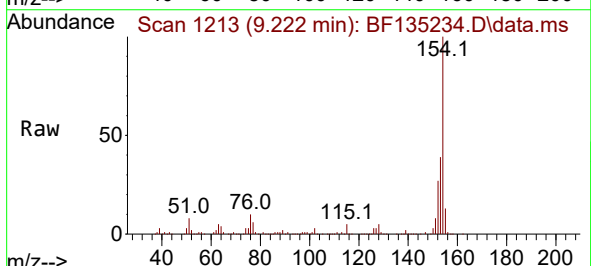
Tgt Ion:154 Resp: 87267

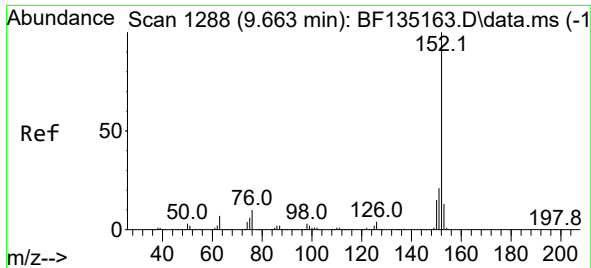
Ion Ratio Lower Upper

154 100

153 38.6 19.6 59.6

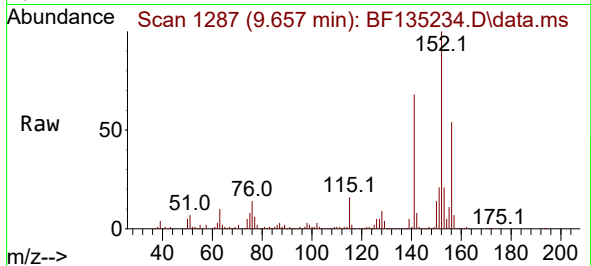
76 10.2 0.0 31.0





#49
Acenaphthylene
Concen: 10.432 ng
RT: 9.657 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF135234.D
Acq: 13 Sep 2023 21:26

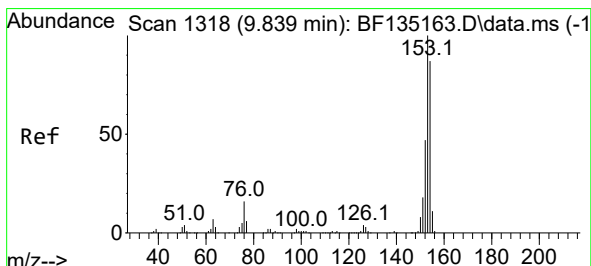
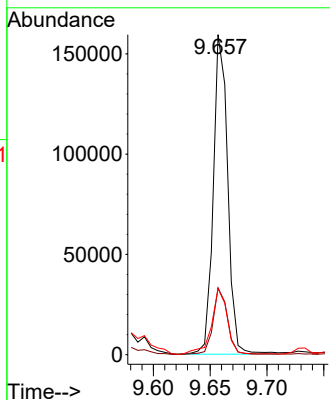
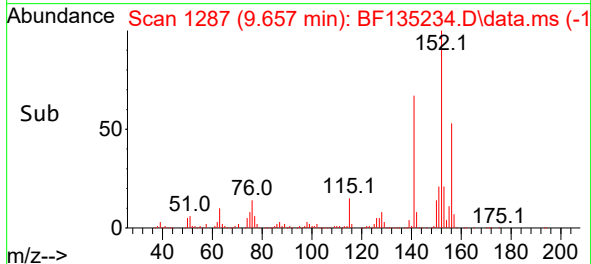
Instrument :
BNA_F
ClientSampleId :
SB-04-COMPDL



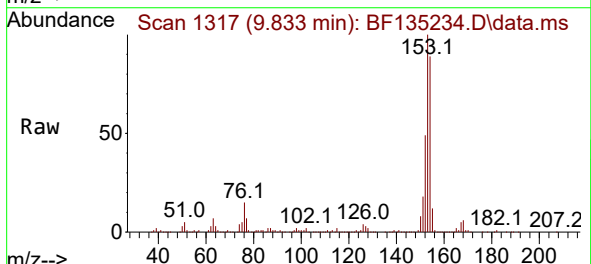
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Ion Ratio Lower Upper
152 100
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153 20.6 10.4 15.6

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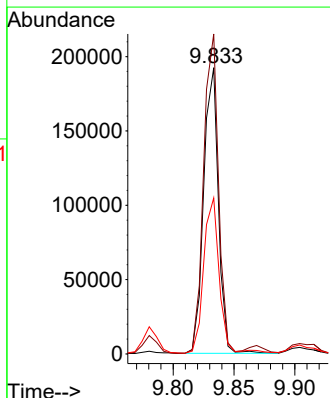
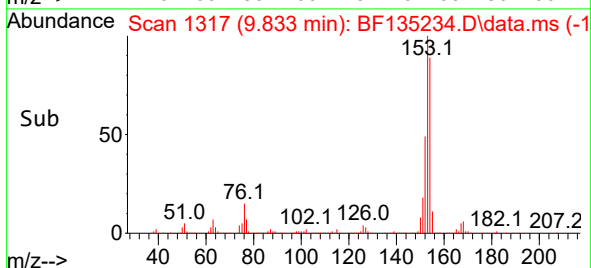
Reviewed By :Yogesh Patel 09/14/2023
Supervised By :mohammad ahmed 09/14/2023

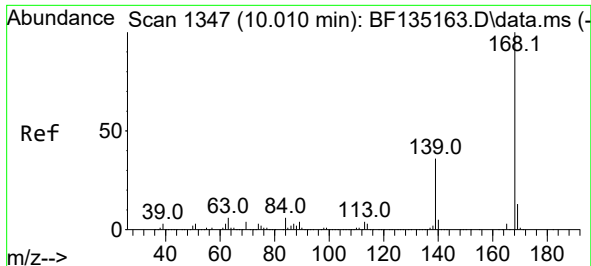


#52
Acenaphthene
Concen: 20.197 ng
RT: 9.833 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF135234.D
Acq: 13 Sep 2023 21:26



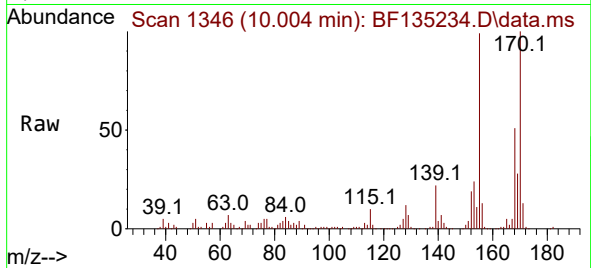
Tgt Ion:154 Resp: 160718
Ion Ratio Lower Upper
154 100
153 111.8 92.1 138.1
152 54.5 43.1 64.7





#55
Dibenzofuran
Concen: 2.992 ng
RT: 10.004 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135234.D
Acq: 13 Sep 2023 21:26

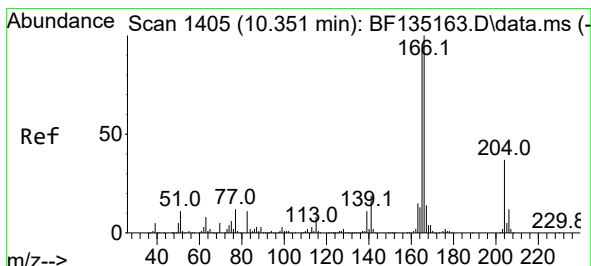
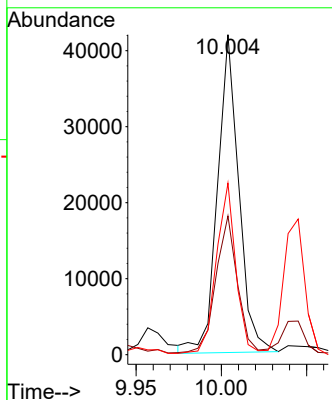
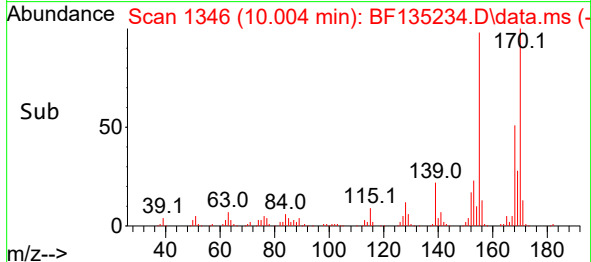
Instrument :
BNA_F
ClientSampleId :
SB-04-COMPDL



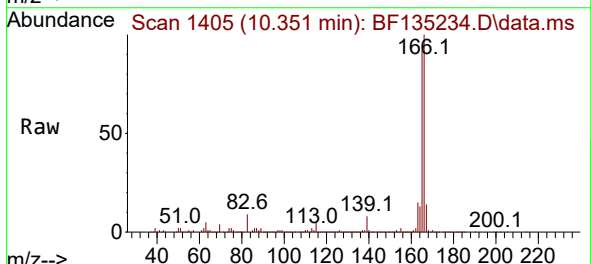
Tgt Ion:168 Resp: 3633
Ion Ratio Lower Upper
168 100
139 43.4 29.0 43.6
169 53.6 10.4 15.6

Manual Integrations
APPROVED

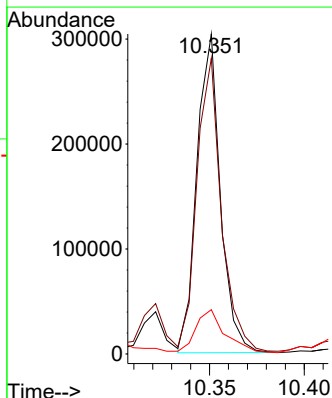
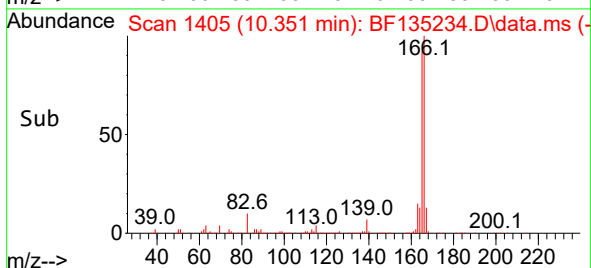
Reviewed By :Yogesh Patel 09/14/2023
Supervised By :mohammad ahmed 09/14/2023

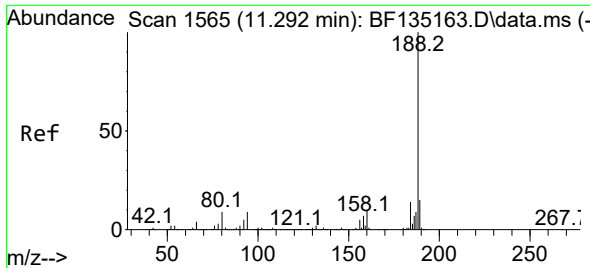


#58
Fluorene
Concen: 28.015 ng
RT: 10.351 min Scan# 1405
Delta R.T. 0.000 min
Lab File: BF135234.D
Acq: 13 Sep 2023 21:26



Tgt Ion:166 Resp: 261526
Ion Ratio Lower Upper
166 100
165 92.4 74.3 111.5
167 13.8 10.9 16.3





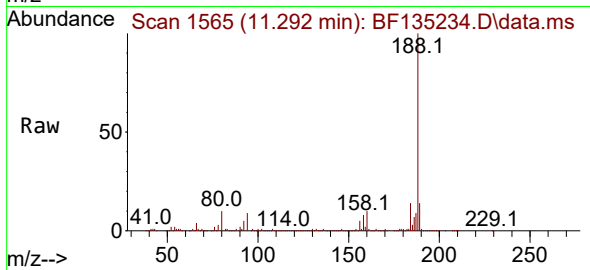
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.292 min Scan# 1565
Delta R.T. 0.000 min
Lab File: BF135234.D
Acq: 13 Sep 2023 21:26

Instrument :

BNA_F

ClientSampleId :

SB-04-COMPDL

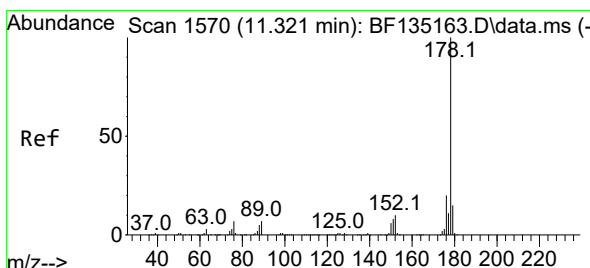
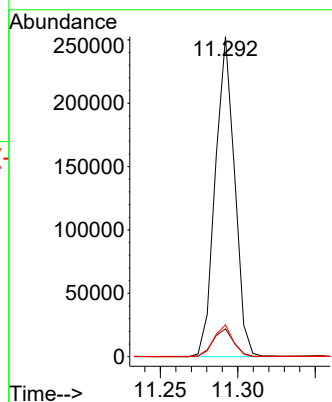
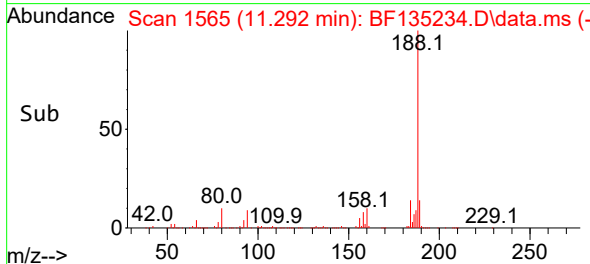


Tgt Ion:188 Resp: 219400
Ion Ratio Lower Upper
188 100
94 8.7 7.0 10.6
80 10.0 7.5 11.3

Manual Integrations

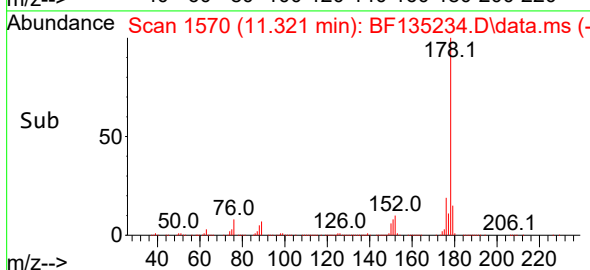
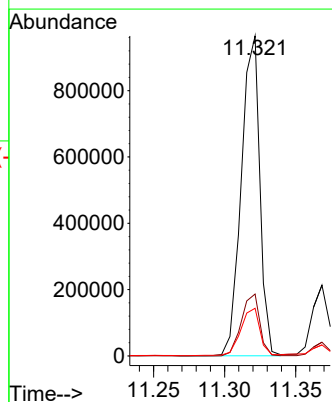
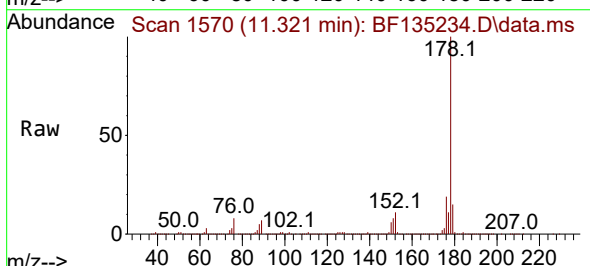
APPROVED

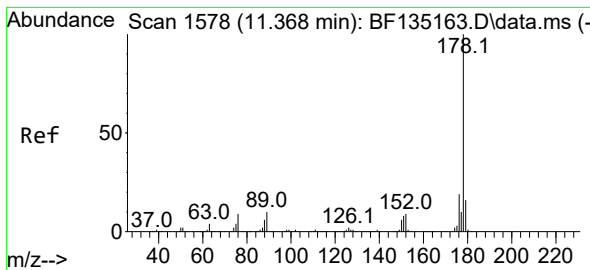
Reviewed By :Yogesh Patel 09/14/2023
Supervised By :mohammad ahmed 09/14/2023



#71
Phenanthrene
Concen: 84.394 ng
RT: 11.321 min Scan# 1570
Delta R.T. 0.000 min
Lab File: BF135234.D
Acq: 13 Sep 2023 21:26

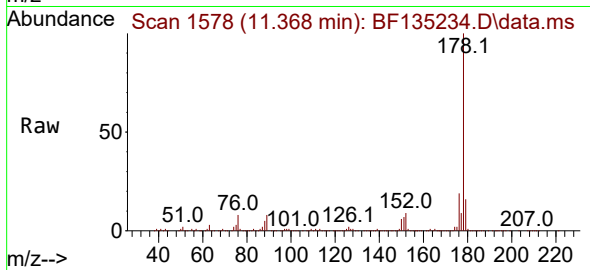
Tgt Ion:178 Resp: 875730
Ion Ratio Lower Upper
178 100
176 19.3 15.6 23.4
179 14.9 12.0 18.0





#72
 Anthracene
 Concen: 15.680 ng
 RT: 11.368 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BF135234.D
 Acq: 13 Sep 2023 21:26

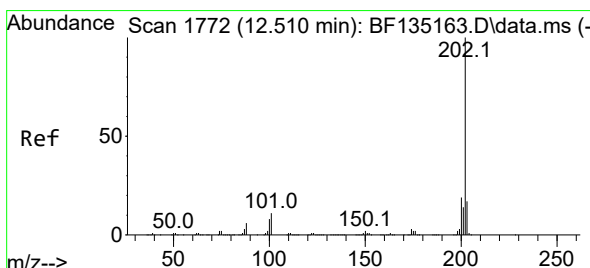
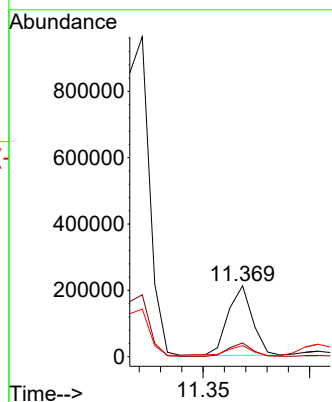
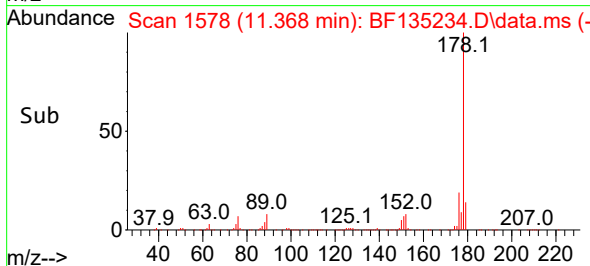
Instrument :
 BNA_F
 ClientSampleId :
 SB-04-COMPDL



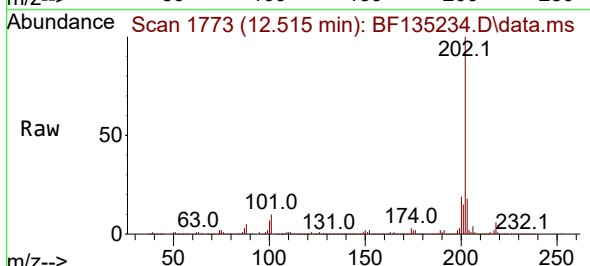
Tgt Ion:178 Resp: 16724
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.4 23.2
 179 15.6 12.6 19.0

Manual Integrations
 APPROVED

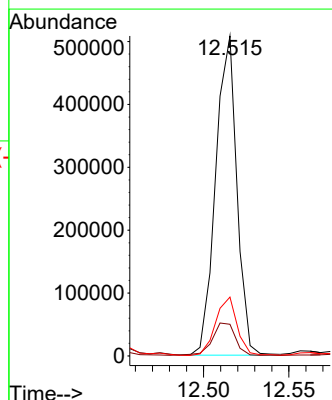
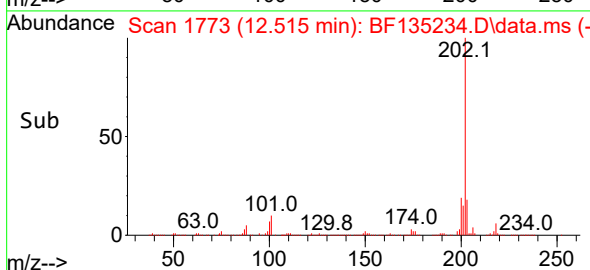
Reviewed By :Yogesh Patel 09/14/2023
 Supervised By :mohammad ahmed 09/14/2023

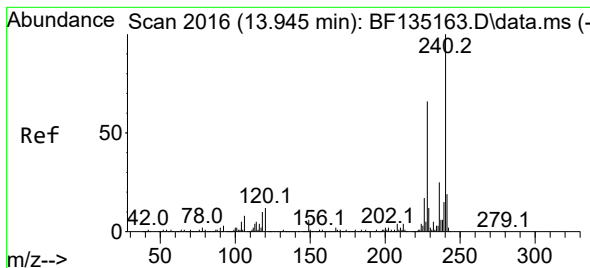


#75
 Fluoranthene
 Concen: 40.716 ng
 RT: 12.515 min Scan# 1773
 Delta R.T. 0.006 min
 Lab File: BF135234.D
 Acq: 13 Sep 2023 21:26



Tgt Ion:202 Resp: 440242
 Ion Ratio Lower Upper
 202 100
 101 9.9 0.0 31.3
 203 18.4 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: BF135234.D

Acq: 13 Sep 2023 21:26

Instrument :

BNA_F

ClientSampleId :

SB-04-COMPDL

Tgt Ion:240 Resp: 18056

Ion Ratio Lower Upper

240 100

120 10.5 9.4 14.2

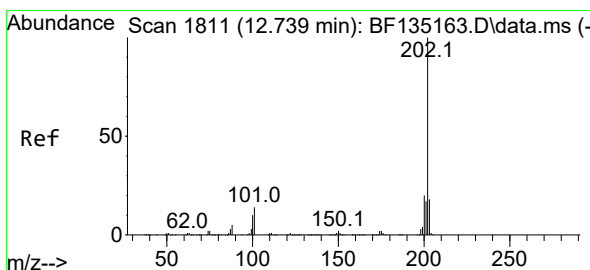
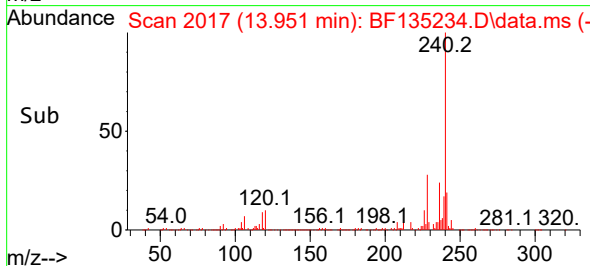
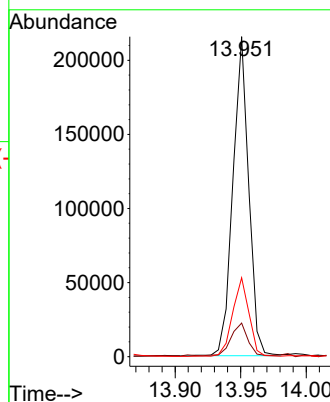
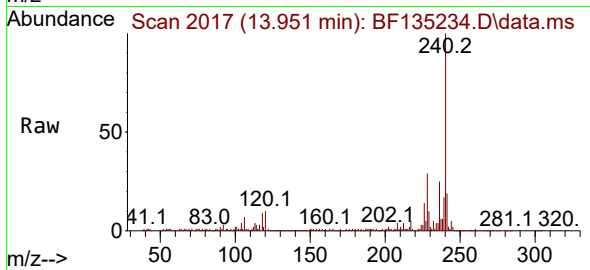
236 24.6 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/14/2023

Supervised By :mohammad ahmed 09/14/2023



#78

Pyrene

Concen: 45.044 ng

RT: 12.745 min Scan# 1812

Delta R.T. 0.006 min

Lab File: BF135234.D

Acq: 13 Sep 2023 21:26

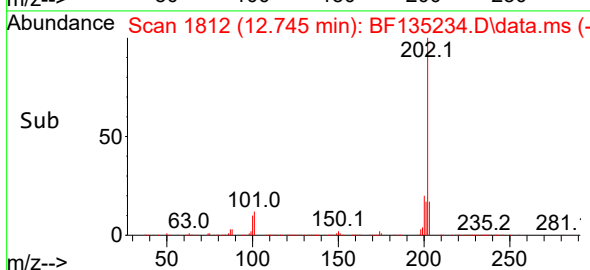
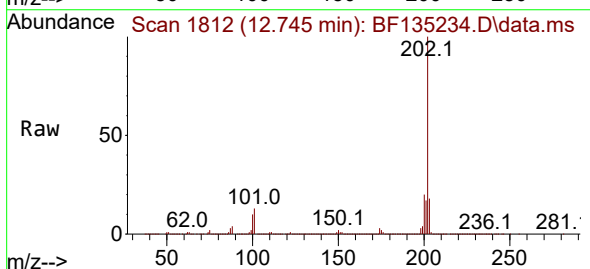
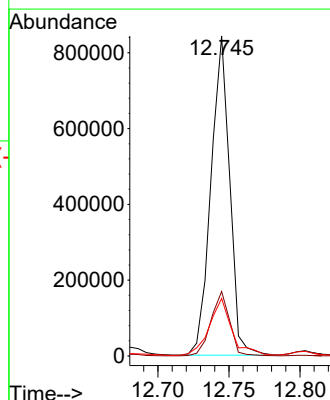
Tgt Ion:202 Resp: 774379

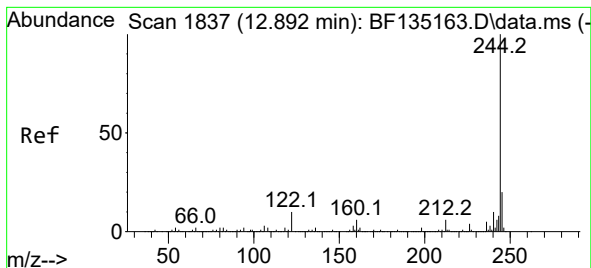
Ion Ratio Lower Upper

202 100

200 20.1 16.2 24.2

203 18.0 14.2 21.4





#79

Terphenyl-d14

Concen: 0.758 ng

RT: 12.886 min Scan# 1836

Delta R.T. -0.006 min

Lab File: BF135234.D

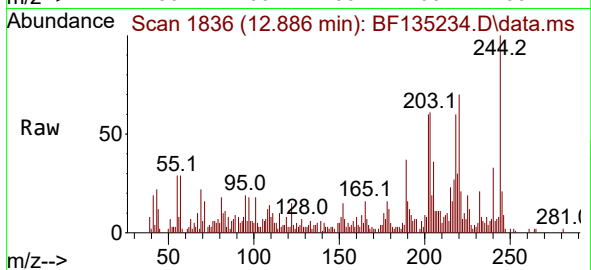
Acq: 13 Sep 2023 21:26

Instrument :

BNA_F

ClientSampleId :

SB-04-COMPDL



Tgt Ion:244 Resp: 8830

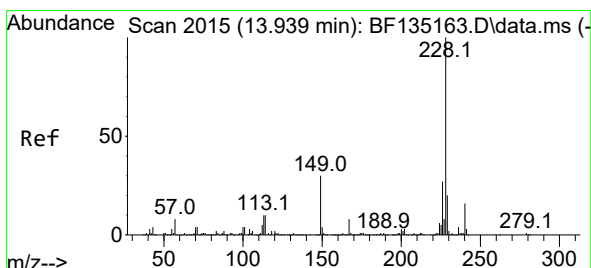
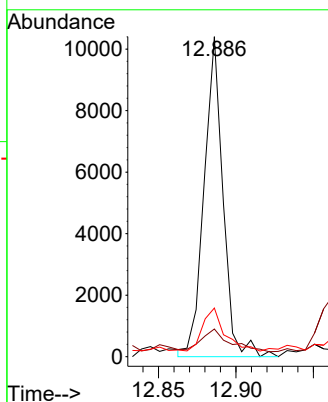
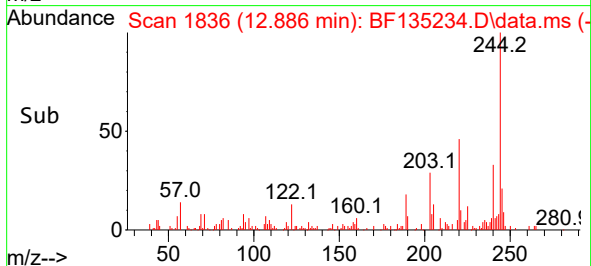
Ion	Ratio	Lower	Upper
244	100		
212	8.6	5.1	7.7
122	15.2	7.9	11.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/14/2023

Supervised By :mohammad ahmed 09/14/2023



#81

Benzo(a)anthracene

Concen: 24.596 ng m

RT: 13.939 min Scan# 2015

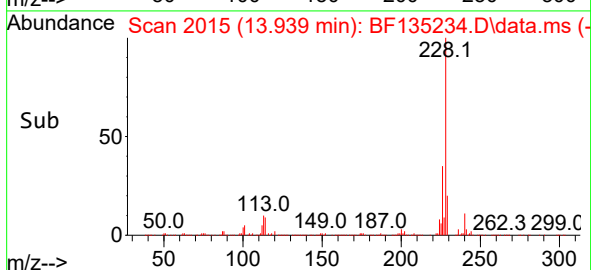
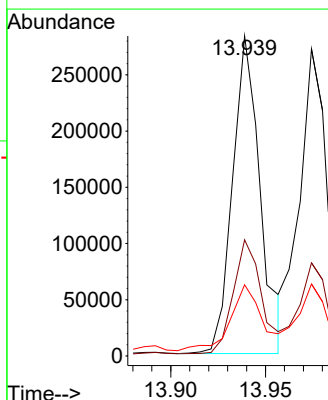
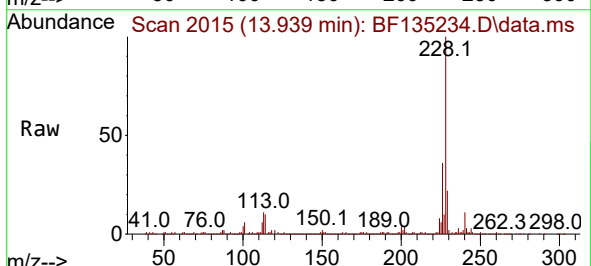
Delta R.T. 0.000 min

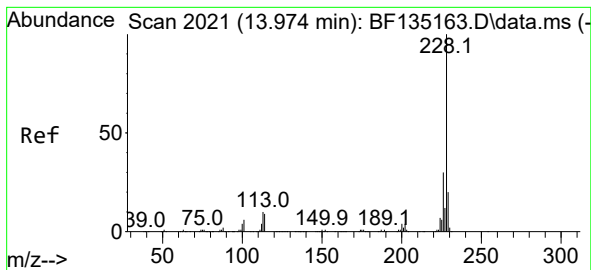
Lab File: BF135234.D

Acq: 13 Sep 2023 21:26

Tgt Ion:228 Resp: 286783

Ion	Ratio	Lower	Upper
228	100		
226	36.3	21.7	32.5
229	22.3	15.8	23.8





#83

Chrysene

Concen: 23.002 ng

RT: 13.974 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF135234.D

Acq: 13 Sep 2023 21:26

Instrument :

BNA_F

ClientSampleId :

SB-04-COMPDL

Tgt Ion:228 Resp: 266654

Ion Ratio Lower Upper

228 100

226 30.3 24.3 36.5

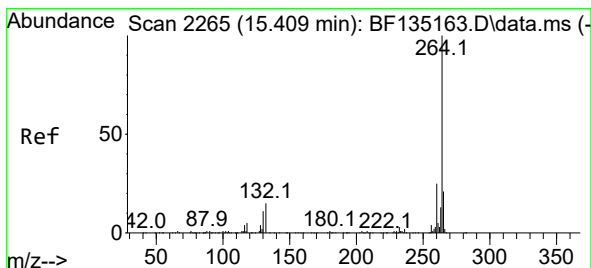
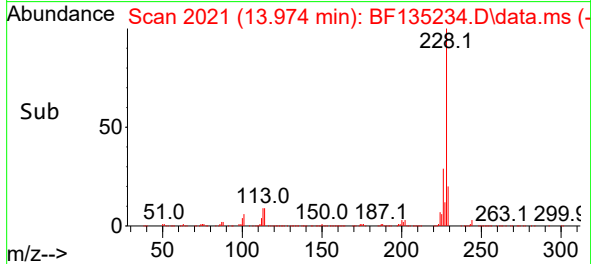
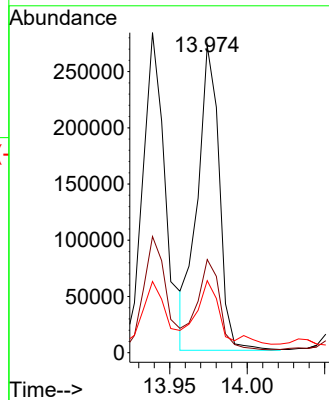
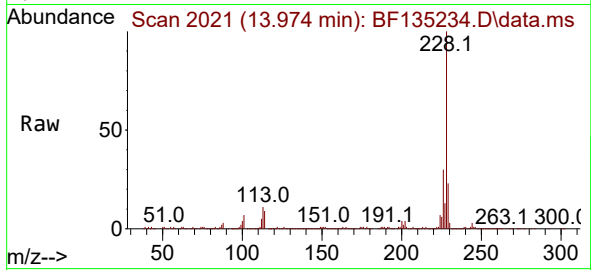
229 23.4 16.0 24.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/14/2023

Supervised By :mohammad ahmed 09/14/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.415 min Scan# 2266

Delta R.T. 0.006 min

Lab File: BF135234.D

Acq: 13 Sep 2023 21:26

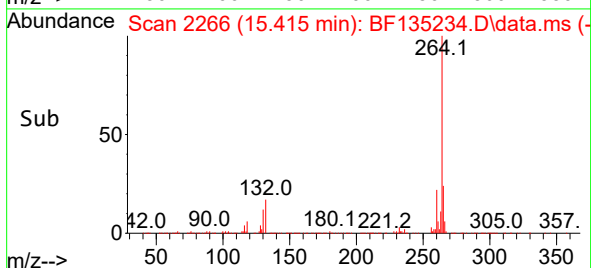
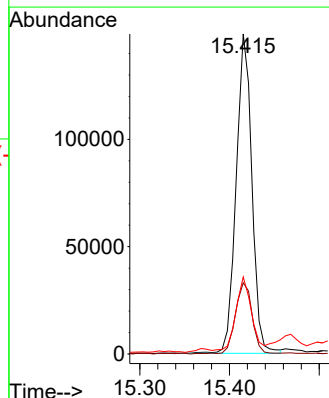
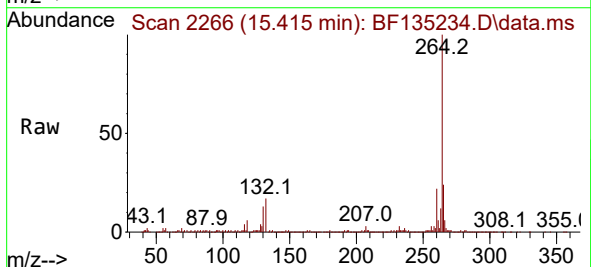
Tgt Ion:264 Resp: 181346

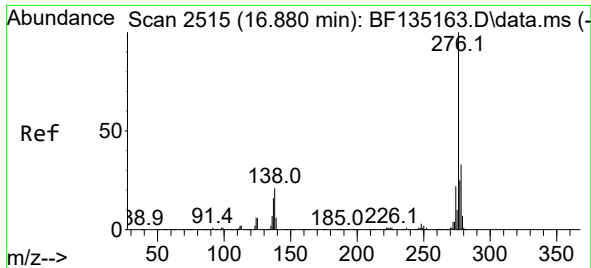
Ion Ratio Lower Upper

264 100

260 22.3 19.8 29.6

265 24.0 17.0 25.4





#87
Indeno(1,2,3-cd)pyrene
Concen: 4.830 ng
RT: 16.892 min Scan# 2194
Delta R.T. 0.012 min
Lab File: BF135234.D
Acq: 13 Sep 2023 21:26

Instrument :

BNA_F

ClientSampleId :

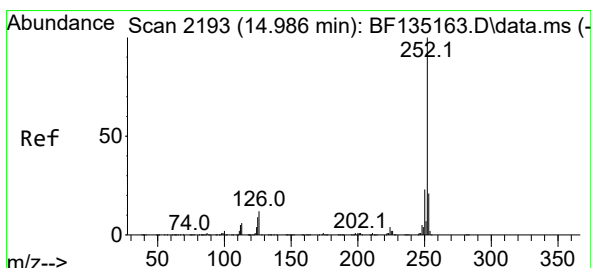
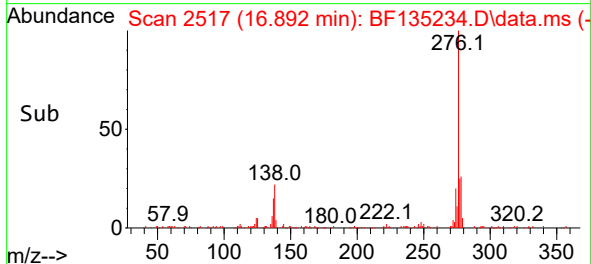
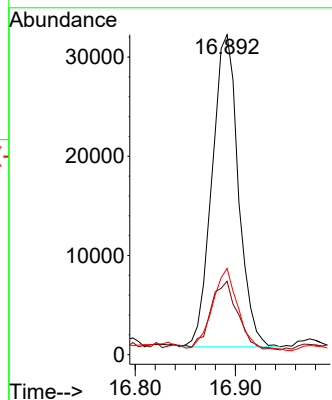
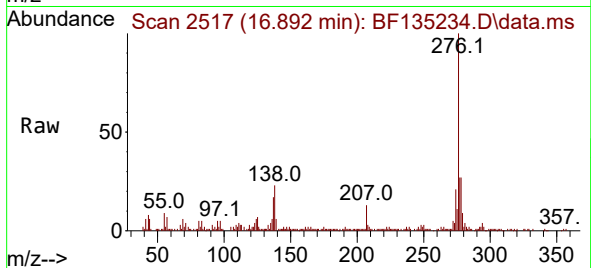
SB-04-COMPDL

Tgt Ion:276 Resp: 57429
Ion Ratio Lower Upper
276 100
138 24.0 19.2 28.8
277 26.3 19.7 29.5

Manual Integrations

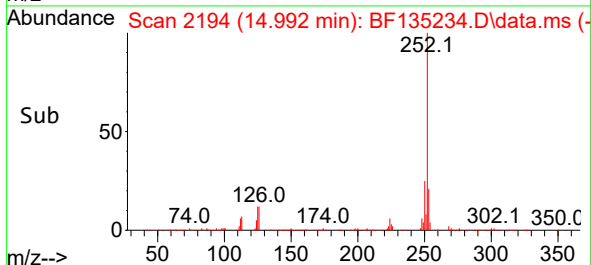
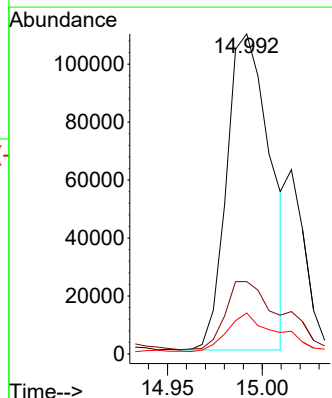
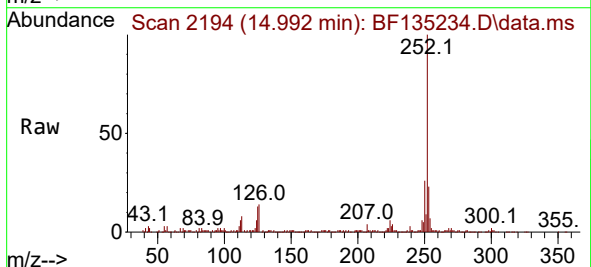
APPROVED

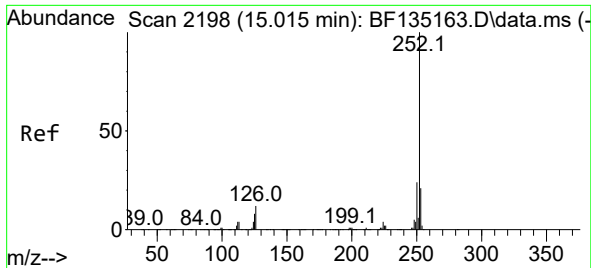
Reviewed By :Yogesh Patel 09/14/2023
Supervised By :mohammad ahmed 09/14/2023



#88
Benzo(b)fluoranthene
Concen: 17.803 ng m
RT: 14.992 min Scan# 2194
Delta R.T. 0.006 min
Lab File: BF135234.D
Acq: 13 Sep 2023 21:26

Tgt Ion:252 Resp: 174771
Ion Ratio Lower Upper
252 100
253 22.6 17.2 25.8
125 12.8 7.1 10.7#





#89
Benzo(k)fluoranthene
Concen: 4.455 ng m
RT: 15.015 min Scan# 2198
Delta R.T. 0.000 min
Lab File: BF135234.D
Acq: 13 Sep 2023 21:26

Instrument :

BNA_F

ClientSampleId :

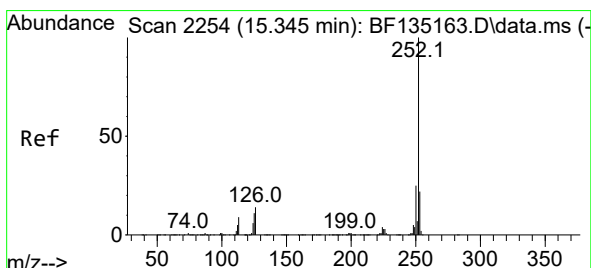
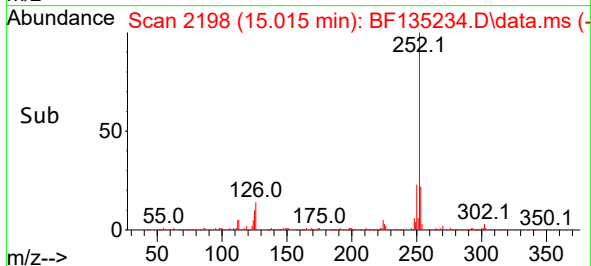
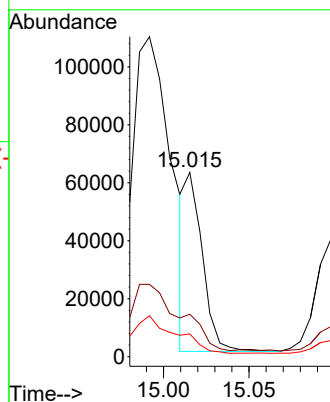
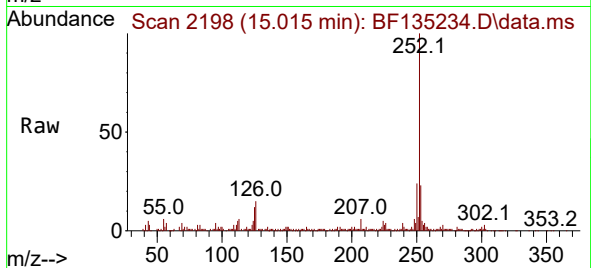
SB-04-COMPDL

Tgt Ion:252 Resp: 43200
Ion Ratio Lower Upper
252 100
253 23.0 17.4 26.0
125 12.3 7.2 10.8

Manual Integrations

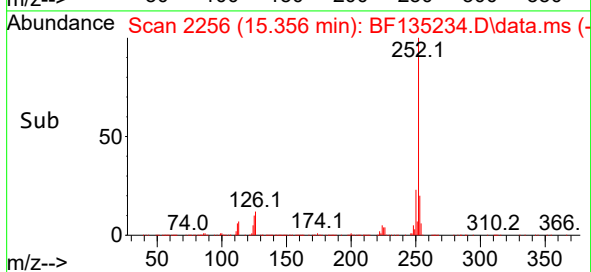
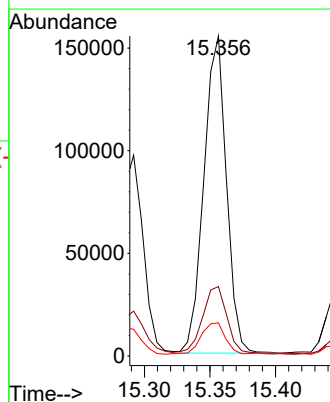
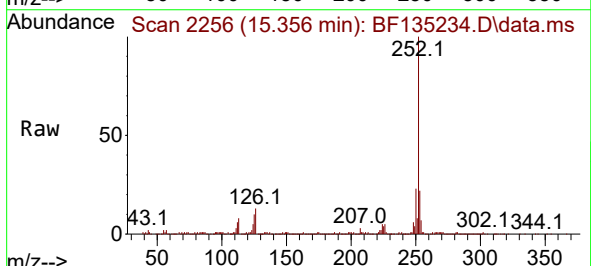
APPROVED

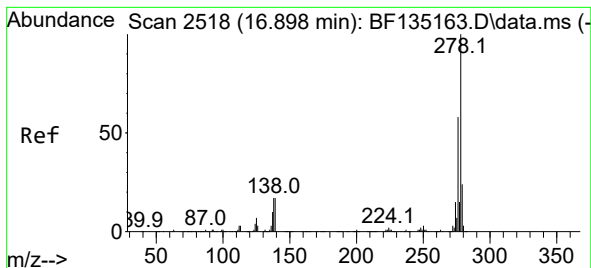
Reviewed By :Yogesh Patel 09/14/2023
Supervised By :mohammad ahmed 09/14/2023



#90
Benzo(a)pyrene
Concen: 19.781 ng
RT: 15.356 min Scan# 2256
Delta R.T. 0.012 min
Lab File: BF135234.D
Acq: 13 Sep 2023 21:26

Tgt Ion:252 Resp: 185188
Ion Ratio Lower Upper
252 100
253 21.7 17.5 26.3
125 10.3 9.2 13.8





#91

Dibenzo(a,h)anthracene

Concen: 2.029 ng m

RT: 16.892 min Scan# 2518

Delta R.T. -0.006 min

Lab File: BF135234.D

Acq: 13 Sep 2023 21:26

Instrument :

BNA_F

ClientSampleId :

SB-04-COMPDL

Tgt Ion:278 Resp: 1974

Ion Ratio Lower Upper

278 100

139 21.9 13.4 20.0

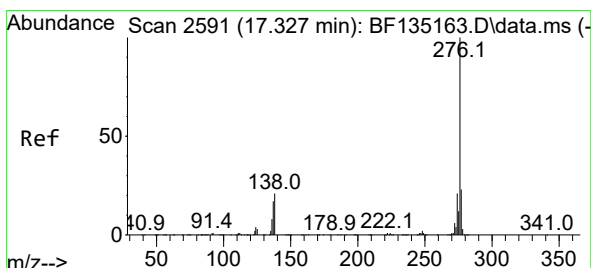
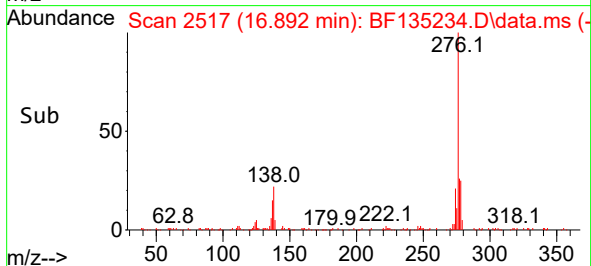
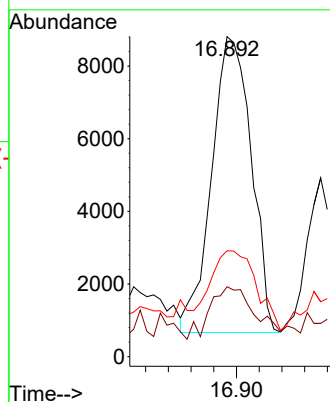
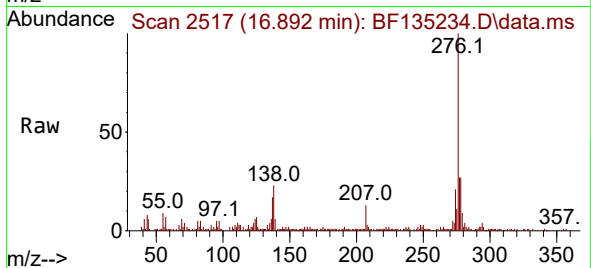
279 33.1 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/14/2023

Supervised By :mohammad ahmed 09/14/2023



#92

Benzo(g,h,i)perylene

Concen: 7.172 ng

RT: 17.333 min Scan# 2592

Delta R.T. 0.006 min

Lab File: BF135234.D

Acq: 13 Sep 2023 21:26

Tgt Ion:276 Resp: 72872

Ion Ratio Lower Upper

276 100

277 26.1 18.8 28.2

138 21.5 16.9 25.3

