

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF090523\
 Data File : BF135093.D
 Acq On : 05 Sep 2023 13:52
 Operator : CG\JU
 Sample : 04110-24
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-20(2-3)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 09/06/2023
 Supervised By :mohammad ahmed 09/07/2023

Quant Time: Sep 05 14:19:09 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF083023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 31 03:48:08 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.769	152	88499	20.000	ng	0.00
21) Naphthalene-d8	8.051	136	347170	20.000	ng	0.00
39) Acenaphthene-d10	9.810	164	166253	20.000	ng	0.00
64) Phenanthrene-d10	11.298	188	278526	20.000	ng	-0.01
76) Chrysene-d12	13.957	240	164072	20.000	ng	0.00
86) Perylene-d12	15.433	264	190652	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.398	112	483784	84.437	ng	0.00
7) Phenol-d6	6.410	99	586780	82.165	ng	0.00
23) Nitrobenzene-d5	7.334	82	387055	62.635	ng	-0.01
42) 2,4,6-Tribromophenol	10.598	330	142116	80.583	ng	-0.01
45) 2-Fluorobiphenyl	9.128	172	628315	61.531	ng	-0.01
79) Terphenyl-d14	12.898	244	447470	44.506	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.069	128	69956	4.125	ng	98
37) 2-Methylnaphthalene	8.763	142	28121	2.485	ng	99
38) 1-Methylnaphthalene	8.863	142	22600	2.135	ng	97
49) Acenaphthylene	9.669	152	49759	3.446	ng	100
52) Acenaphthene	9.839	154	18429	2.003	ng	97
55) Dibenzofuran	10.010	168	36445	2.746	ng	# 96
58) Fluorene	10.357	166	28461	2.812	ng	99
71) Phenanthrene	11.327	178	652210	45.389	ng	99
72) Anthracene	11.375	178	118259	8.055	ng	97
73) Carbazole	11.533	167	109335	8.634	ng	99
75) Fluoranthene	12.527	202	940510	64.737	ng	98
78) Pyrene	12.751	202	742927	47.691	ng	99
81) Benzo(a)anthracene	13.951	228	406429	36.314	ng	95
83) Chrysene	13.986	228	437649	39.790	ng	98
88) Benzo(b)fluoranthene	15.010	252	570002m	48.050	ng	
89) Benzo(k)fluoranthene	15.033	252	195723m	17.078	ng	
90) Benzo(a)pyrene	15.368	252	368214	33.413	ng	97
91) Dibenzo(a,h)anthracene	16.915	278	67429m	6.483	ng	
92) Benzo(g,h,i)perylene	17.357	276	213316	19.720	ng	99

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

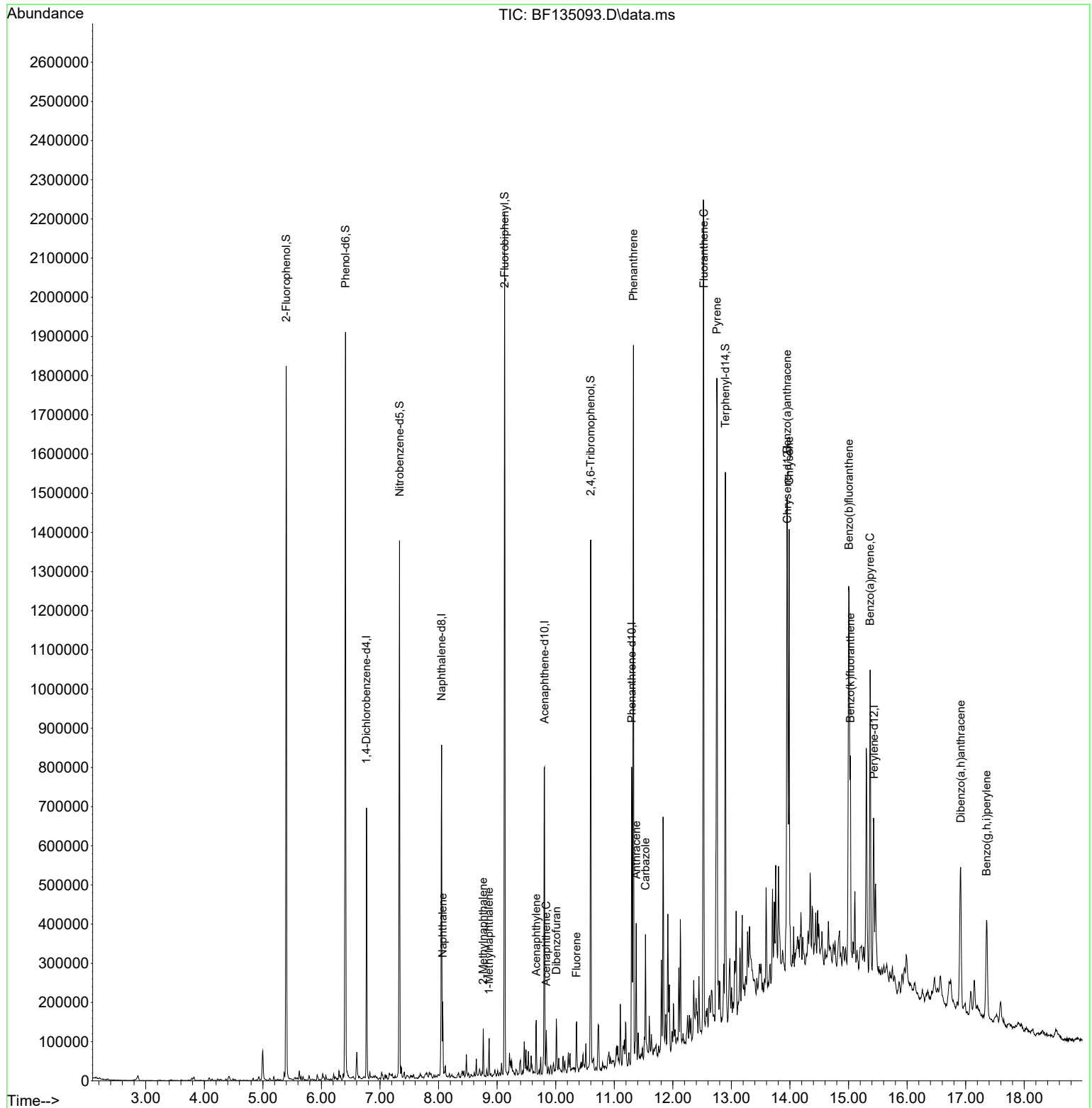
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF090523\
Data File : BF135093.D
Acq On : 05 Sep 2023 13:52
Operator : CG\JU
Sample : 04110-24
Misc :
ALS Vial : 7 Sample Multiplier: 1

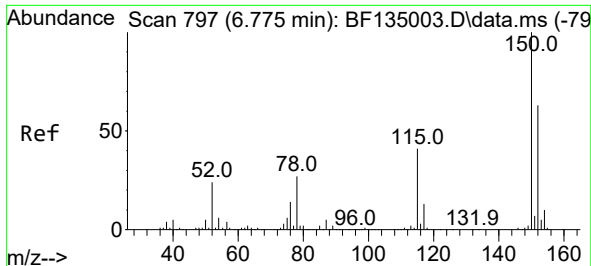
Instrument :
BNA_F
ClientSampleId :
TP-20(2-3)

Quant Time: Sep 05 14:19:09 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF083023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 31 03:48:08 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

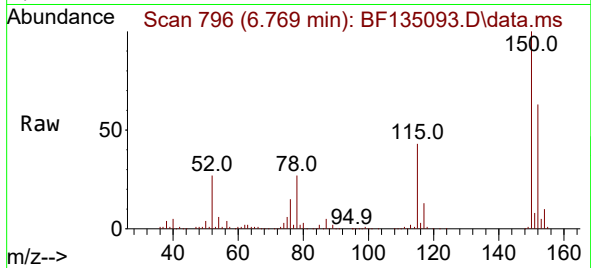
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.769 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

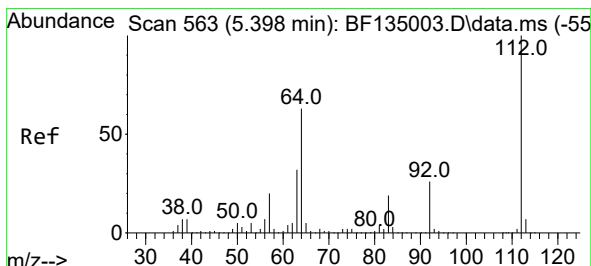
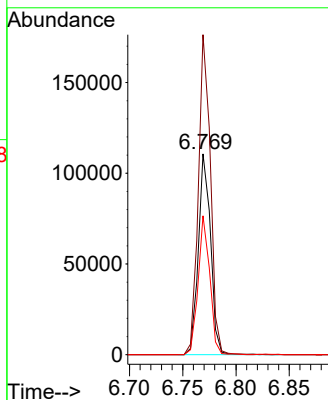
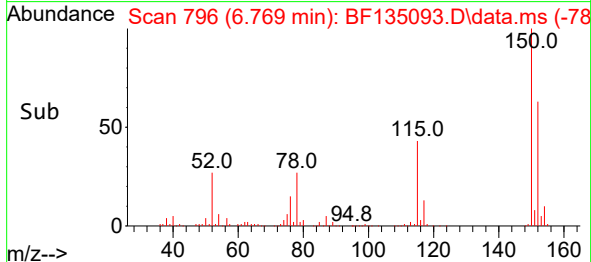
Instrument :
BNA_F
ClientSampleId :
TP-20(2-3)



Tgt Ion:152 Resp: 88499
Ion Ratio Lower Upper
152 100
150 159.4 126.2 189.4
115 69.2 51.2 76.8

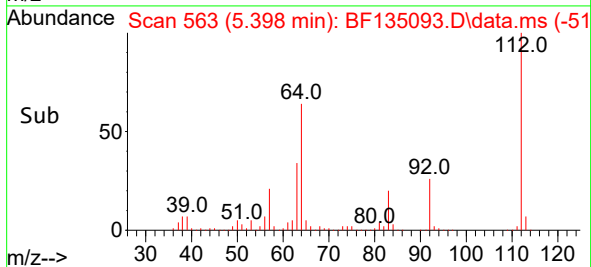
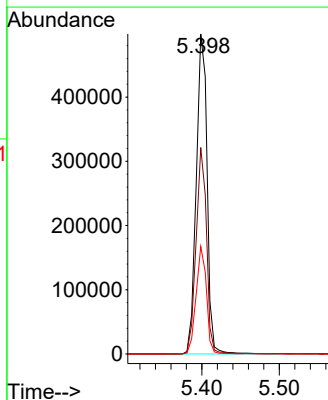
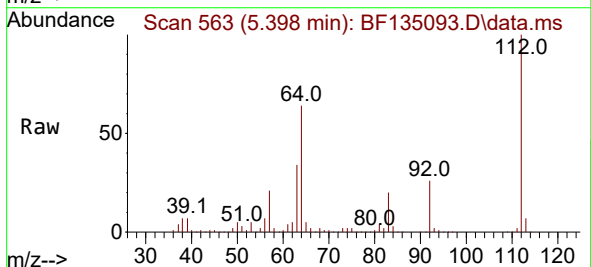
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023



#5
2-Fluorophenol
Concen: 84.437 ng
RT: 5.398 min Scan# 563
Delta R.T. 0.000 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

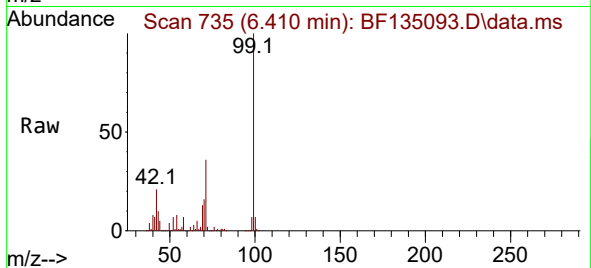
Tgt Ion:112 Resp: 483784
Ion Ratio Lower Upper
112 100
64 64.5 50.5 75.7
63 33.6 25.9 38.9





#7
Phenol-d6
Concen: 82.165 ng
RT: 6.410 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

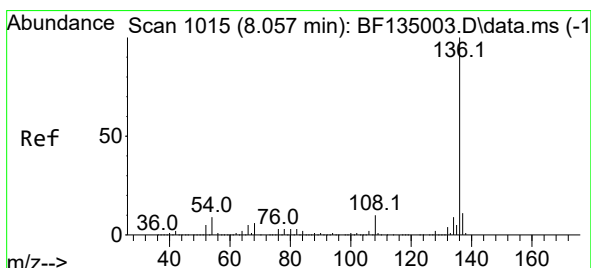
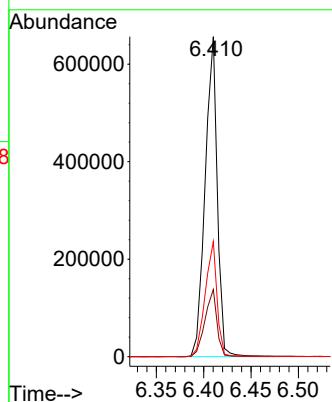
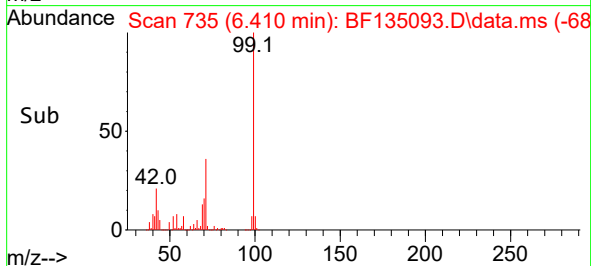
Instrument :
BNA_F
ClientSampleId :
TP-20(2-3)



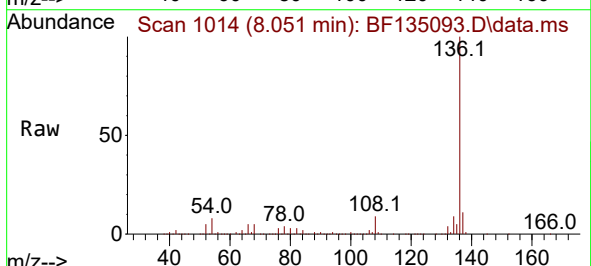
Tgt Ion: 99 Resp: 586780
Ion Ratio Lower Upper
99 100
42 21.0 16.6 25.0
71 35.9 27.0 40.6

Manual Integrations
APPROVED

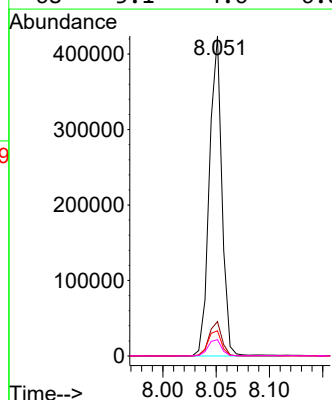
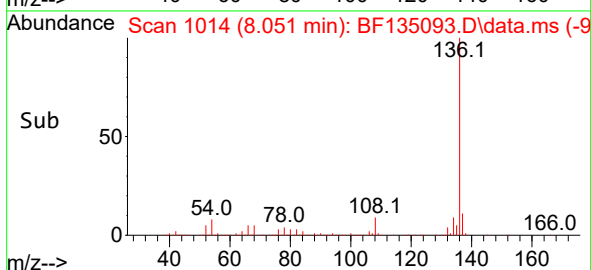
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.051 min Scan# 1014
Delta R.T. -0.006 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52



Tgt Ion:136 Resp: 347170
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 7.9 7.0 10.4
68 5.1 4.6 6.8





#23

Nitrobenzene-d5

Concen: 62.635 ng

RT: 7.334 min Scan# 894

Delta R.T. -0.012 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

Instrument :

BNA_F

ClientSampleId :

TP-20(2-3)

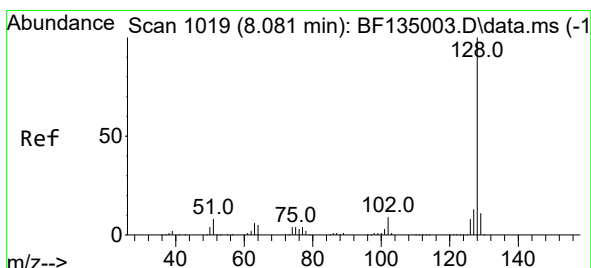
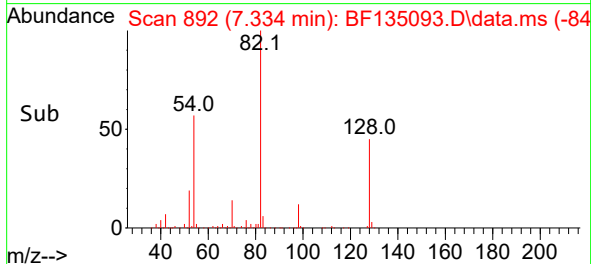
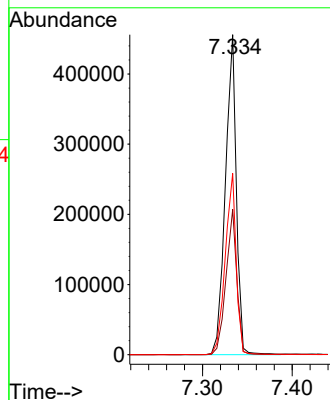
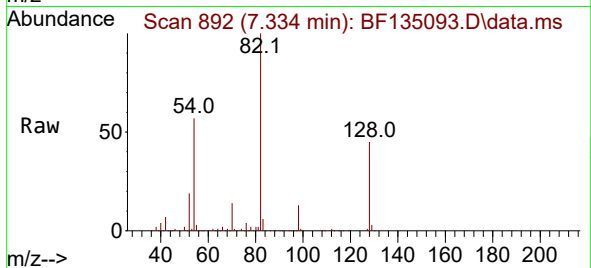
Tgt Ion: 82 Resp: 38705

Ion	Ratio	Lower	Upper
82	100		
128	45.4	37.8	56.8
54	56.7	45.0	67.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023



#31

Naphthalene

Concen: 4.125 ng

RT: 8.069 min Scan# 1017

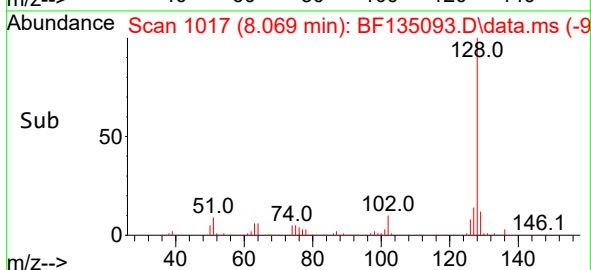
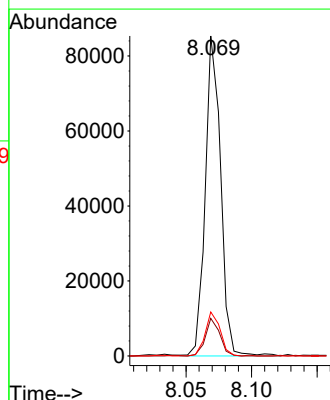
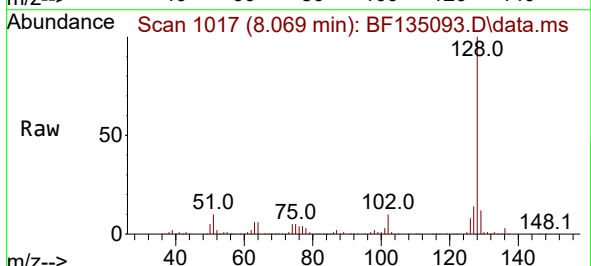
Delta R.T. -0.012 min

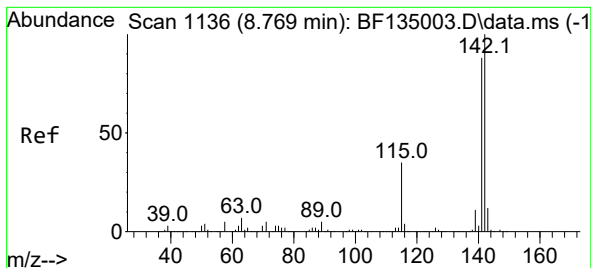
Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

Tgt Ion:128 Resp: 69956

Ion	Ratio	Lower	Upper
128	100		
129	11.7	8.6	13.0
127	13.7	10.6	16.0





#37

2-Methylnaphthalene

Concen: 2.485 ng

RT: 8.763 min Scan# 1135

Delta R.T. -0.006 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

Instrument :

BNA_F

ClientSampleId :

TP-20(2-3)

Tgt Ion:142 Resp: 2812

Ion Ratio Lower Upper

142 100

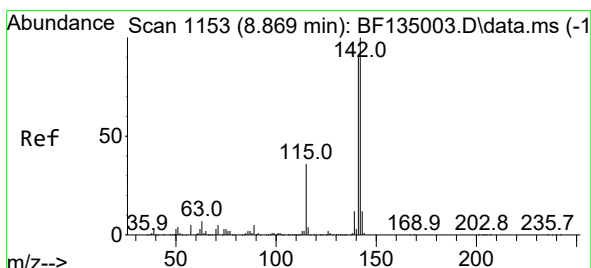
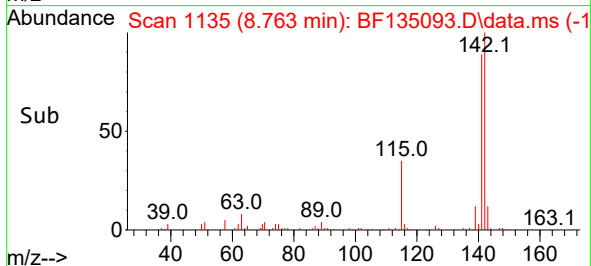
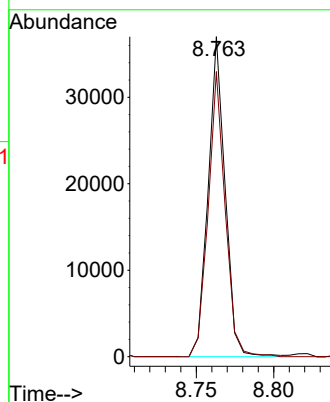
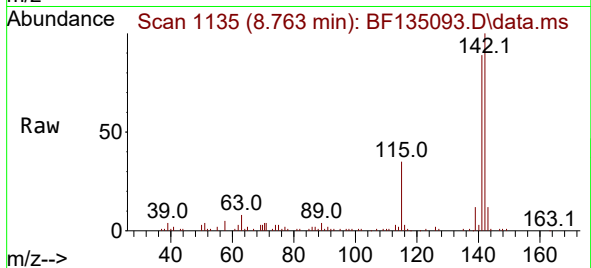
141 89.1 70.7 106.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/06/2023

Supervised By :mohammad ahmed 09/07/2023



#38

1-Methylnaphthalene

Concen: 2.135 ng

RT: 8.863 min Scan# 1152

Delta R.T. -0.006 min

Lab File: BF135093.D

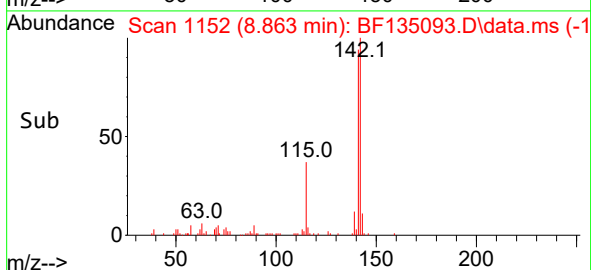
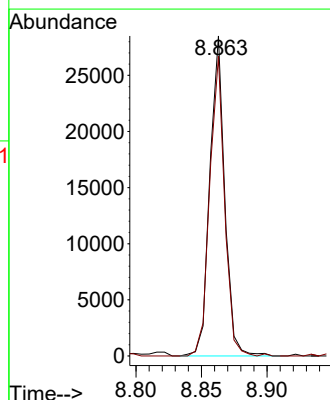
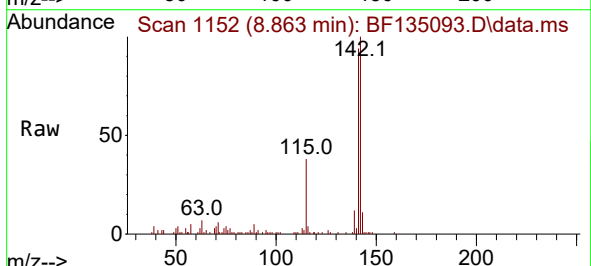
Acq: 05 Sep 2023 13:52

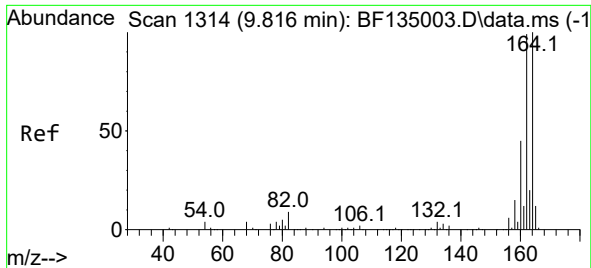
Tgt Ion:142 Resp: 22600

Ion Ratio Lower Upper

142 100

141 93.7 73.0 109.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.810 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

Instrument :

BNA_F

ClientSampleId :

TP-20(2-3)

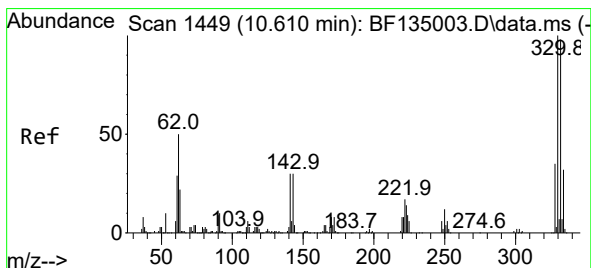
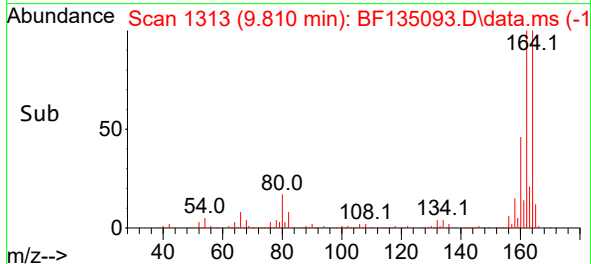
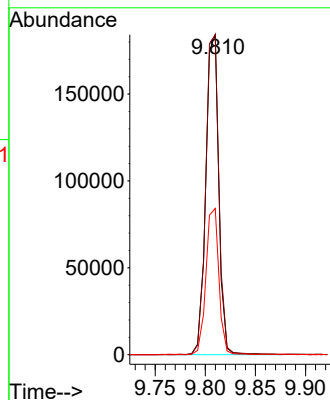
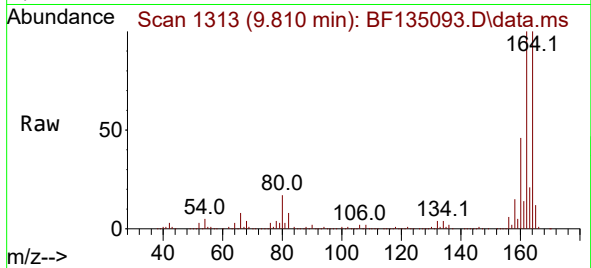
Tgt Ion:164 Resp: 16625
 Ion Ratio Lower Upper
 164 100
 162 100.1 79.5 119.3
 160 45.7 36.0 54.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/06/2023

Supervised By :mohammad ahmed 09/07/2023



#42

2,4,6-Tribromophenol

Concen: 80.583 ng

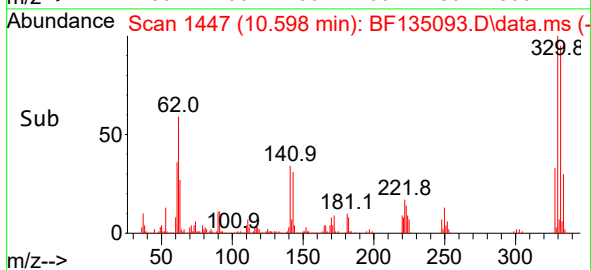
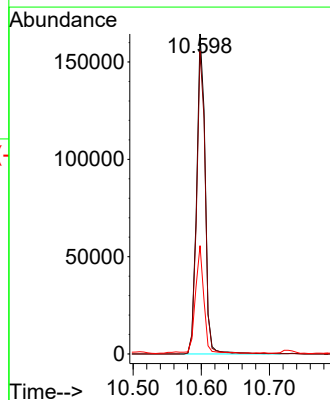
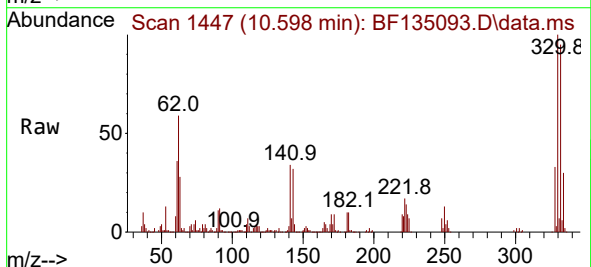
RT: 10.598 min Scan# 1447

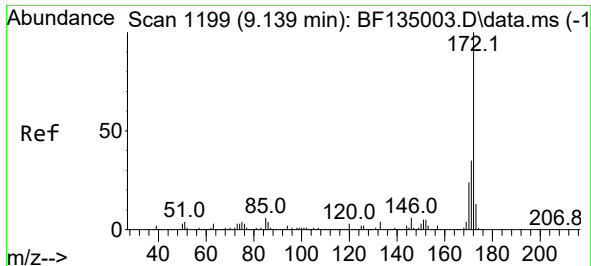
Delta R.T. -0.012 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

Tgt Ion:330 Resp: 142116
 Ion Ratio Lower Upper
 330 100
 332 95.2 77.6 116.4
 141 34.1 26.3 39.5





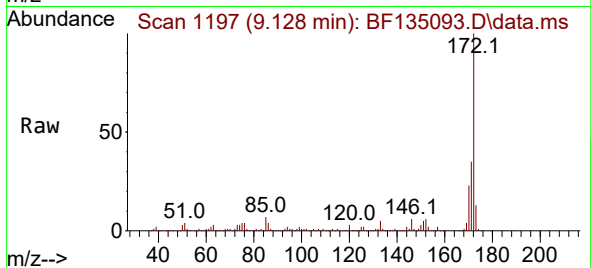
#45
2-Fluorobiphenyl
Concen: 61.531 ng
RT: 9.128 min Scan# 1197
Delta R.T. -0.012 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

Instrument :

BNA_F

ClientSampleId :

TP-20(2-3)

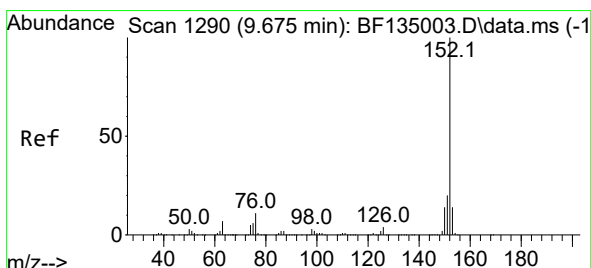
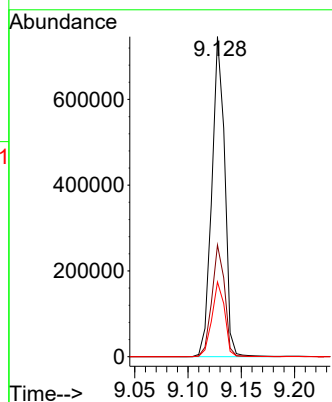
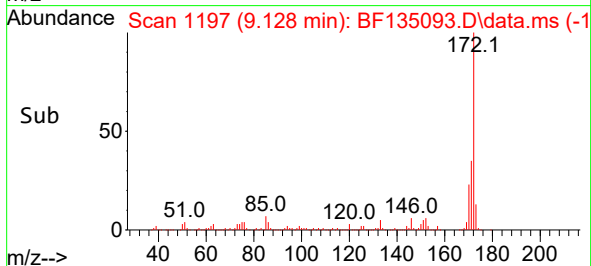


Tgt Ion:172 Resp: 628315
Ion Ratio Lower Upper
172 100
171 34.9 28.2 42.2
170 23.4 19.0 28.4

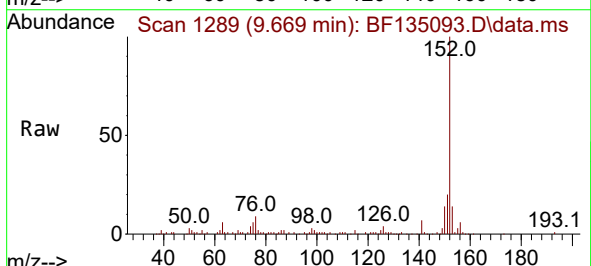
Manual Integrations

APPROVED

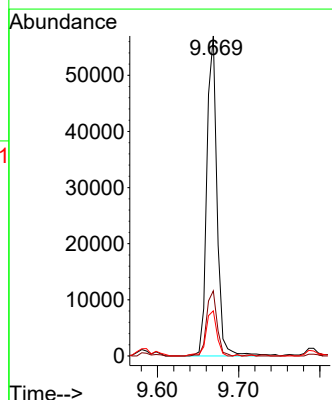
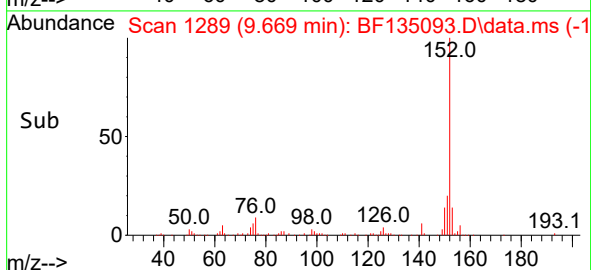
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023

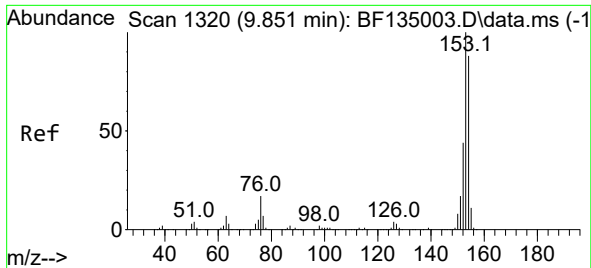


#49
Acenaphthylene
Concen: 3.446 ng
RT: 9.669 min Scan# 1289
Delta R.T. -0.006 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52



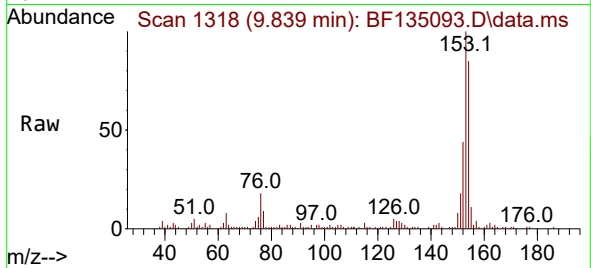
Tgt Ion:152 Resp: 49759
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.4
153 14.1 11.4 17.0





#52
Acenaphthene
Concen: 2.003 ng
RT: 9.839 min Scan# 1318
Delta R.T. -0.012 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

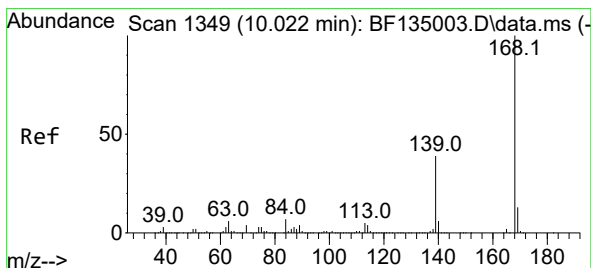
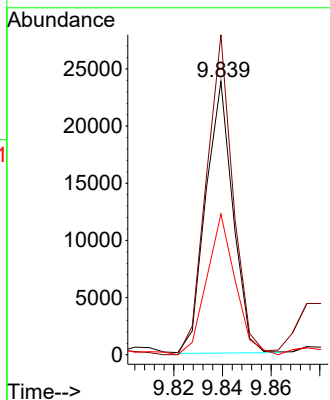
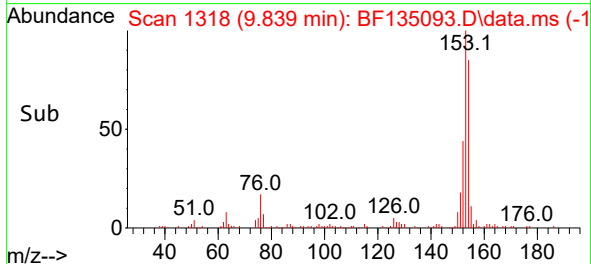
Instrument :
BNA_F
ClientSampleId :
TP-20(2-3)



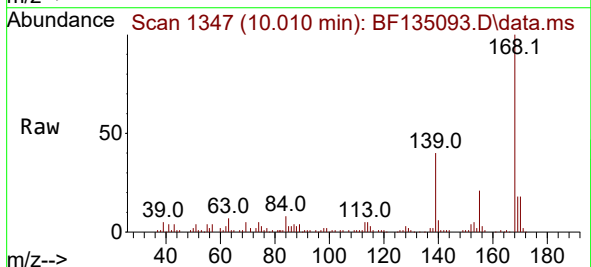
Tgt Ion:154 Resp: 18429
Ion Ratio Lower Upper
154 100
153 117.1 90.8 136.2
152 51.5 40.2 60.4

Manual Integrations
APPROVED

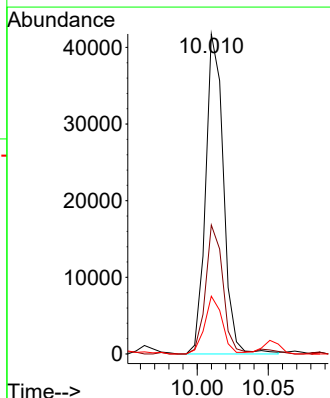
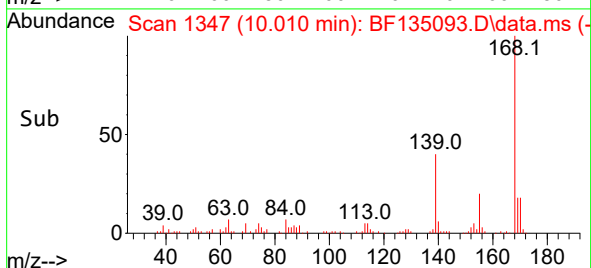
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023

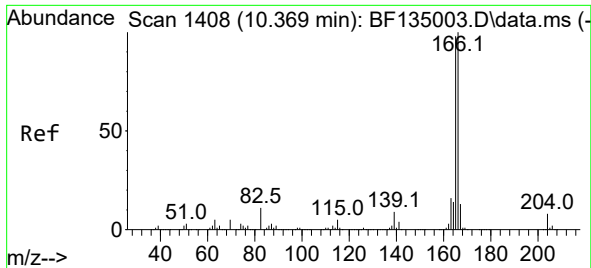


#55
Dibenzofuran
Concen: 2.746 ng
RT: 10.010 min Scan# 1347
Delta R.T. -0.012 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52



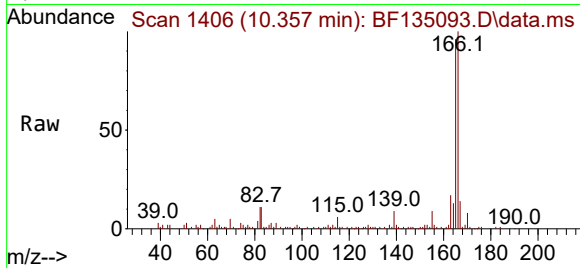
Tgt Ion:168 Resp: 36445
Ion Ratio Lower Upper
168 100
139 40.3 31.5 47.3
169 18.0 10.7 16.1#





#58
Fluorene
Concen: 2.812 ng
RT: 10.357 min Scan# 1408
Delta R.T. -0.012 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

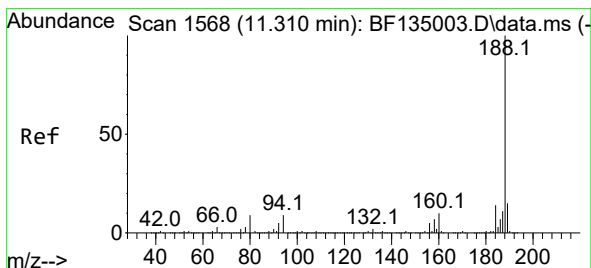
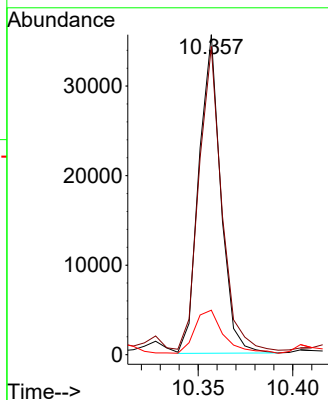
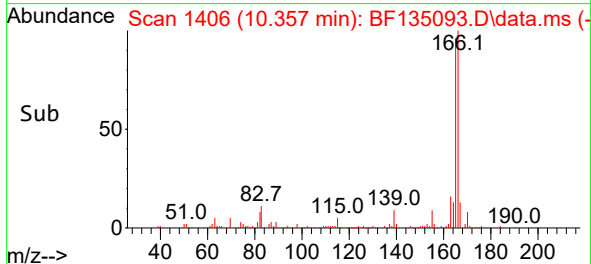
Instrument :
BNA_F
ClientSampleId :
TP-20(2-3)



Tgt Ion:166 Resp: 2846
Ion Ratio Lower Upper
166 100
165 96.3 78.0 117.0
167 13.9 10.8 16.2

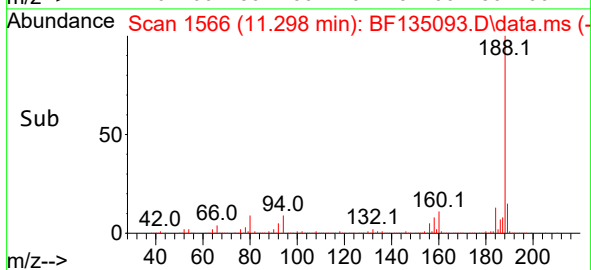
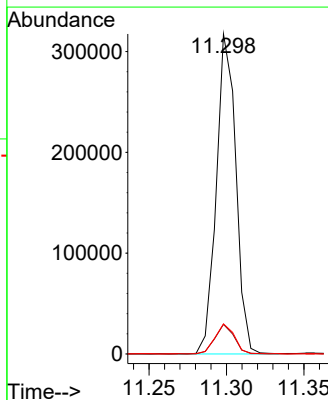
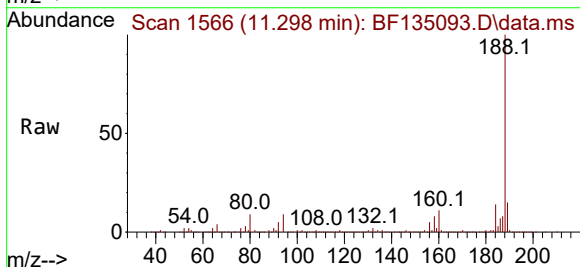
Manual Integrations
APPROVED

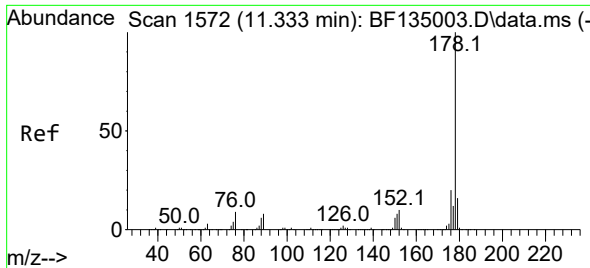
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1566
Delta R.T. -0.012 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

Tgt Ion:188 Resp: 278526
Ion Ratio Lower Upper
188 100
94 9.3 7.0 10.4
80 9.4 7.4 11.2





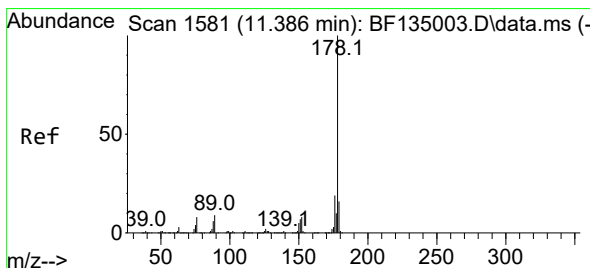
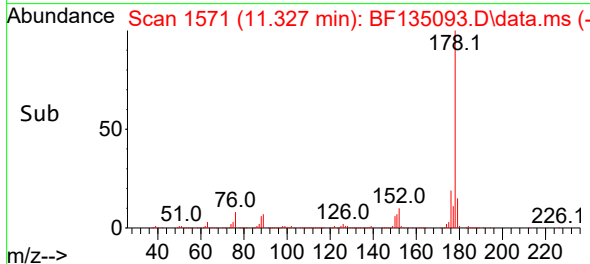
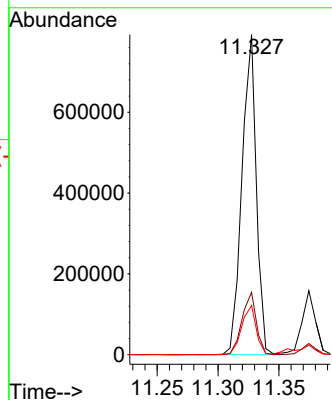
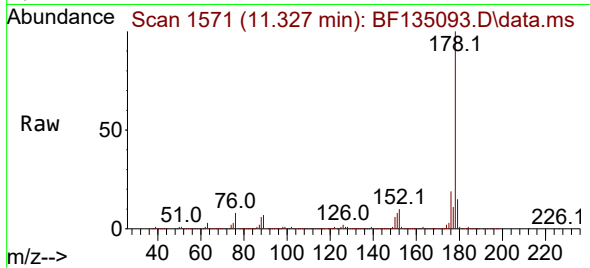
#71
Phenanthrene
Concen: 45.389 ng
RT: 11.327 min Scan# 1571
Delta R.T. -0.006 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

Instrument :
BNA_F
ClientSampleId :
TP-20(2-3)

Tgt Ion:178 Resp: 652210
Ion Ratio Lower Upper
178 100
176 19.5 15.9 23.9
179 15.4 12.5 18.7

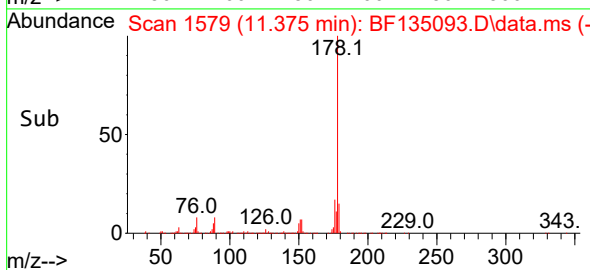
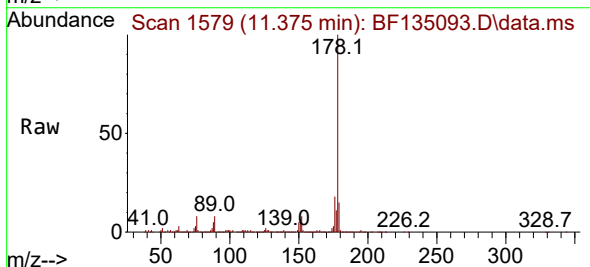
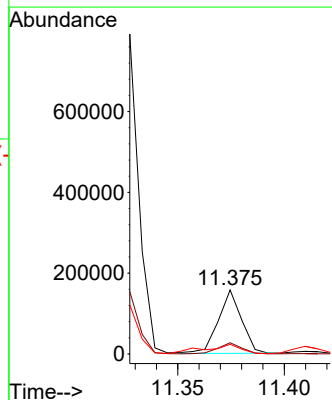
Manual Integrations
APPROVED

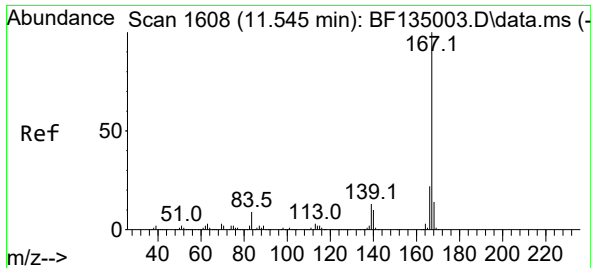
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023



#72
Anthracene
Concen: 8.055 ng
RT: 11.375 min Scan# 1579
Delta R.T. -0.012 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

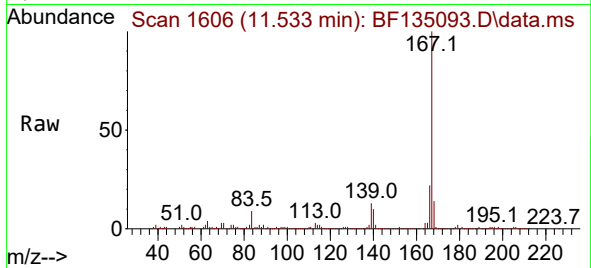
Tgt Ion:178 Resp: 118259
Ion Ratio Lower Upper
178 100
176 17.5 15.4 23.2
179 15.0 12.8 19.2





#73
 Carbazole
 Concen: 8.634 ng
 RT: 11.533 min Scan# 1606
 Delta R.T. -0.012 min
 Lab File: BF135093.D
 Acq: 05 Sep 2023 13:52

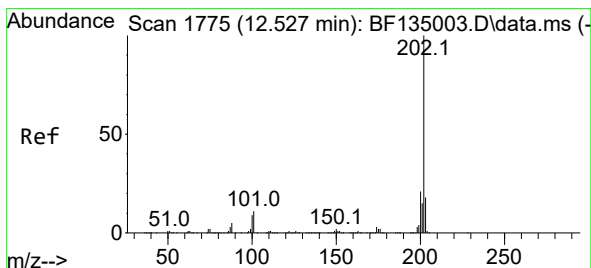
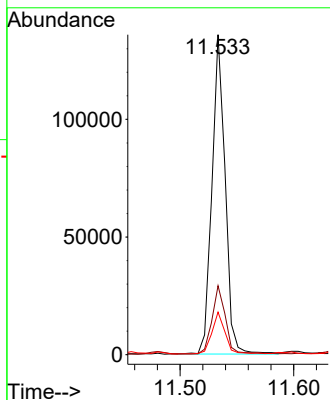
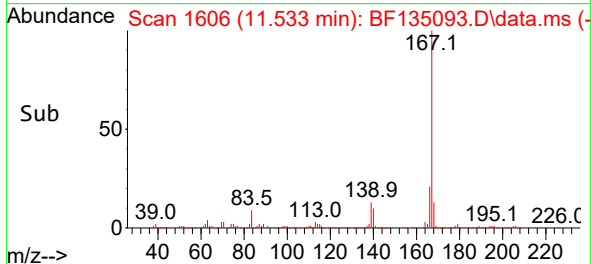
Instrument :
 BNA_F
 ClientSampleId :
 TP-20(2-3)



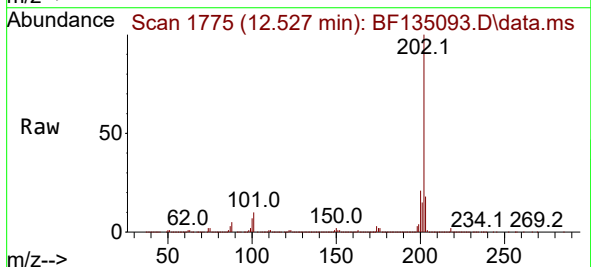
Tgt Ion:167 Resp: 109335
 Ion Ratio Lower Upper
 167 100
 166 21.5 17.4 26.2
 139 13.3 10.3 15.5

Manual Integrations
 APPROVED

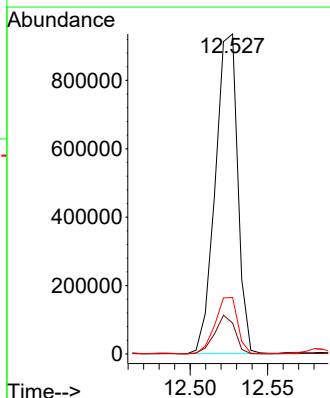
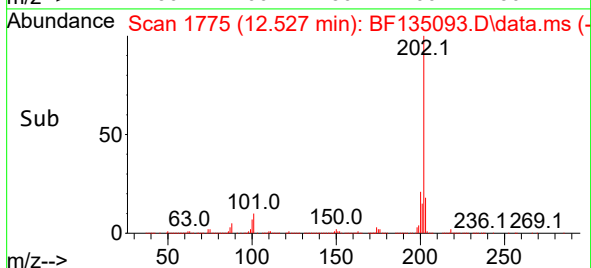
Reviewed By :Yogesh Patel 09/06/2023
 Supervised By :mohammad ahmed 09/07/2023

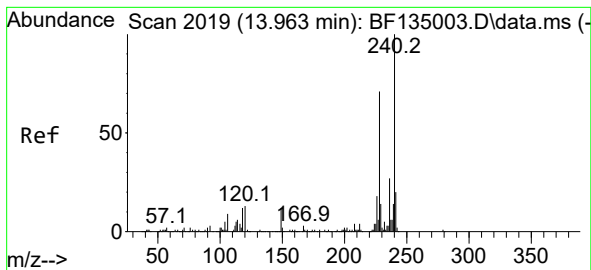


#75
 Fluoranthene
 Concen: 64.737 ng
 RT: 12.527 min Scan# 1775
 Delta R.T. 0.000 min
 Lab File: BF135093.D
 Acq: 05 Sep 2023 13:52



Tgt Ion:202 Resp: 940510
 Ion Ratio Lower Upper
 202 100
 101 9.7 0.0 31.5
 203 17.7 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.957 min Scan# 2018

Delta R.T. -0.006 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

Instrument :

BNA_F

ClientSampleId :

TP-20(2-3)

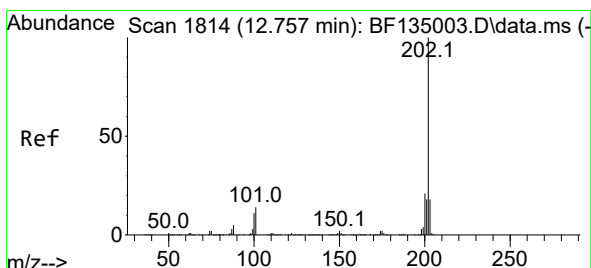
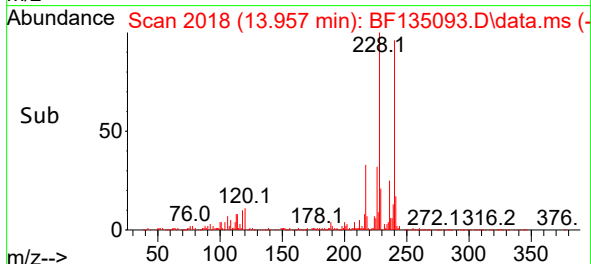
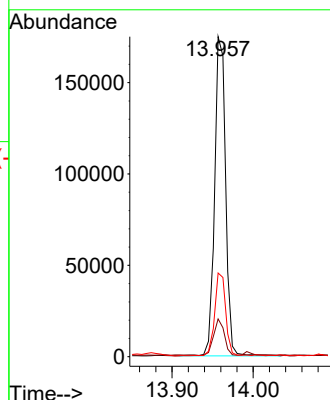
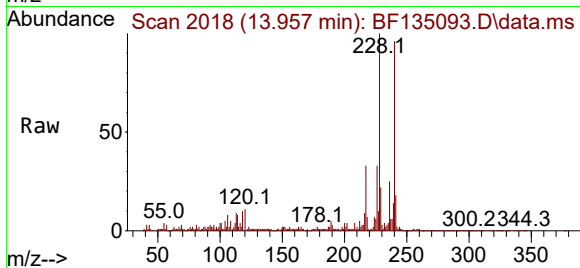
Tgt Ion:240	Resp: 164072
Ion Ratio	Lower Upper
240 100	
120 11.8	10.2 15.2
236 26.1	21.3 31.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/06/2023

Supervised By :mohammad ahmed 09/07/2023



#78

Pyrene

Concen: 47.691 ng

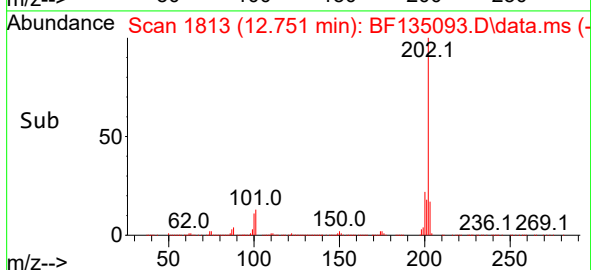
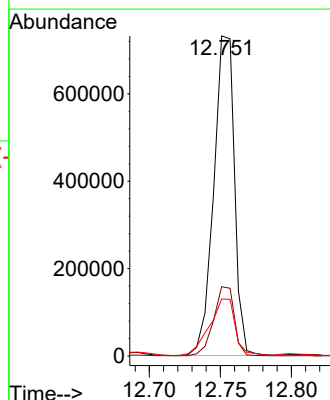
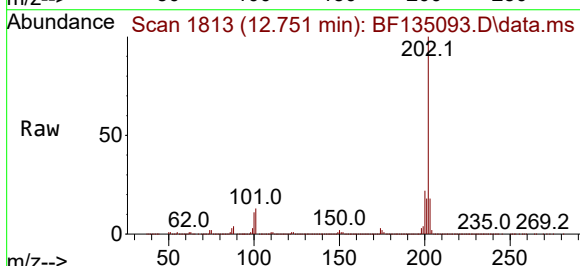
RT: 12.751 min Scan# 1813

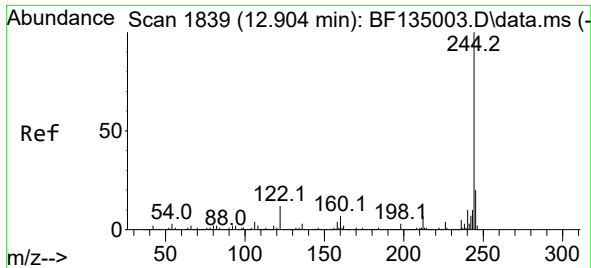
Delta R.T. -0.006 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

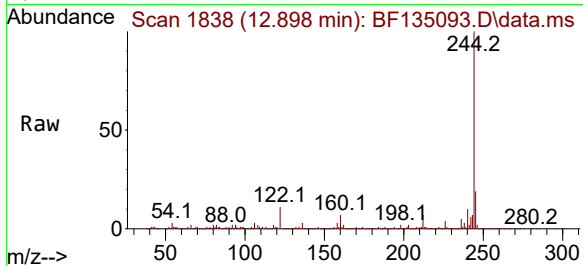
Tgt Ion:202	Resp: 742927
Ion Ratio	Lower Upper
202 100	
200 21.7	17.0 25.6
203 17.8	14.2 21.2





#79
 Terphenyl-d14
 Concen: 44.506 ng
 RT: 12.898 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF135093.D
 Acq: 05 Sep 2023 13:52

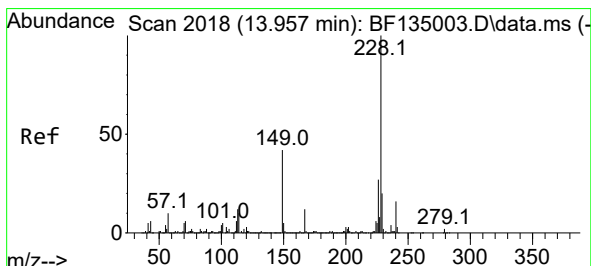
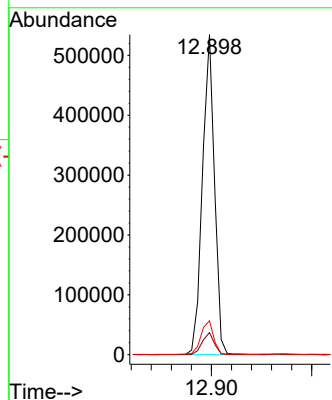
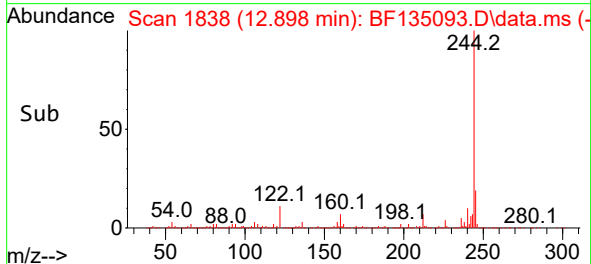
Instrument :
 BNA_F
 ClientSampleId :
 TP-20(2-3)



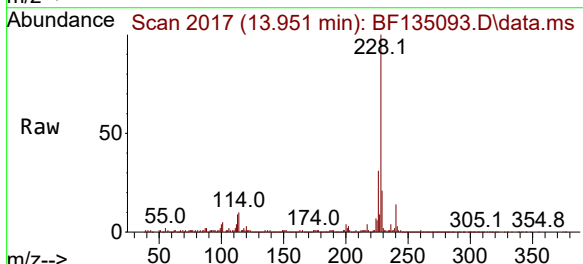
Tgt Ion:244 Resp: 447470
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.6 8.4
 122 10.6 9.8 14.6

Manual Integrations
 APPROVED

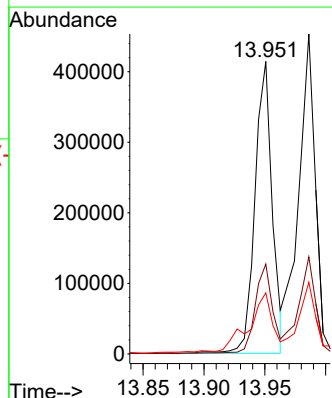
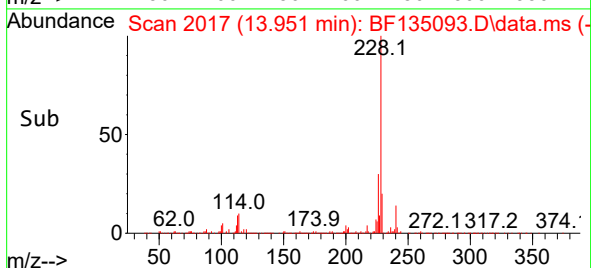
Reviewed By :Yogesh Patel 09/06/2023
 Supervised By :mohammad ahmed 09/07/2023

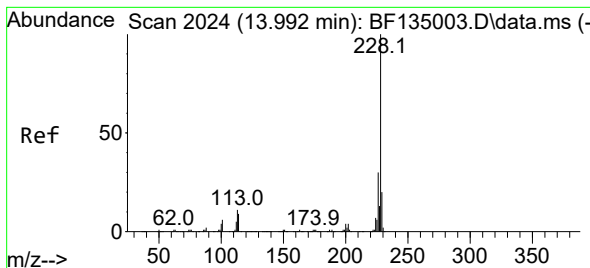


#81
 Benzo(a)anthracene
 Concen: 36.314 ng
 RT: 13.951 min Scan# 2017
 Delta R.T. -0.006 min
 Lab File: BF135093.D
 Acq: 05 Sep 2023 13:52



Tgt Ion:228 Resp: 406429
 Ion Ratio Lower Upper
 228 100
 226 30.7 21.6 32.4
 229 20.9 15.6 23.4





#83

Chrysene

Concen: 39.790 ng

RT: 13.986 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

Instrument :

BNA_F

ClientSampleId :

TP-20(2-3)

Tgt Ion:228 Resp: 437649

Ion Ratio Lower Upper

228 100

226 30.3 24.2 36.4

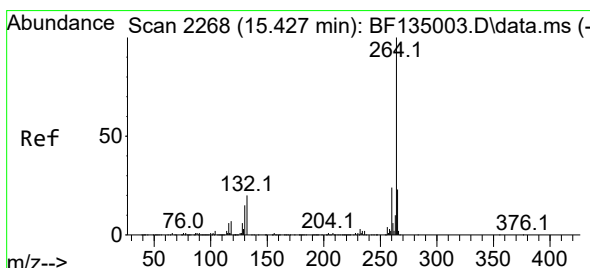
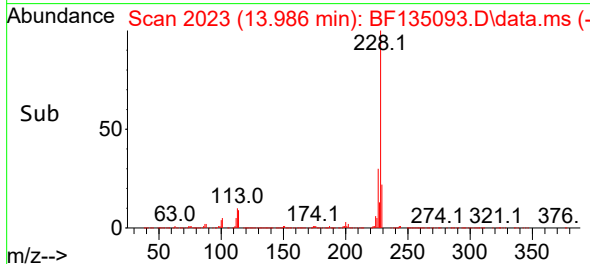
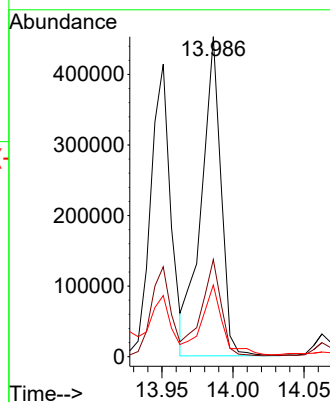
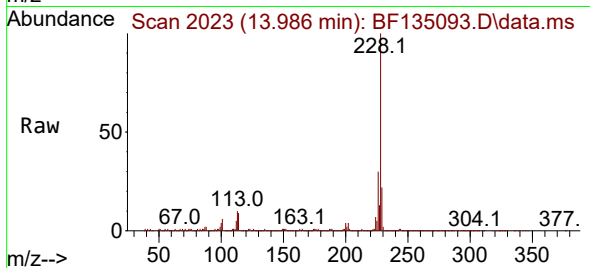
229 22.4 15.9 23.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/06/2023

Supervised By :mohammad ahmed 09/07/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.433 min Scan# 2269

Delta R.T. 0.006 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

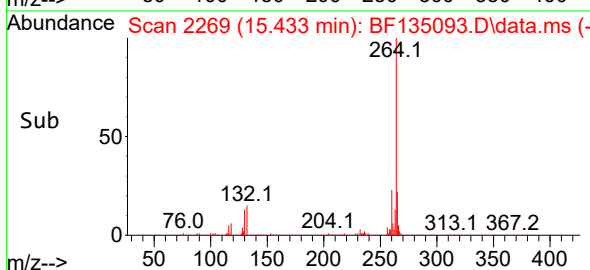
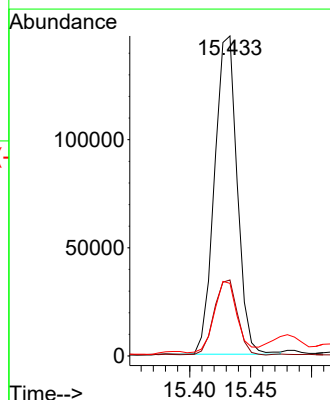
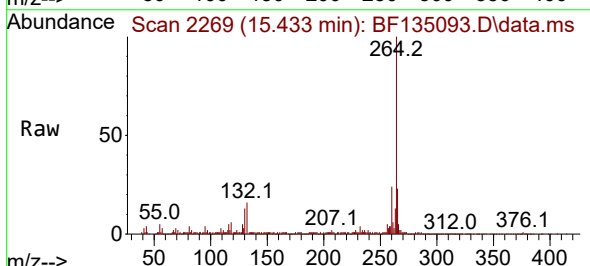
Tgt Ion:264 Resp: 190652

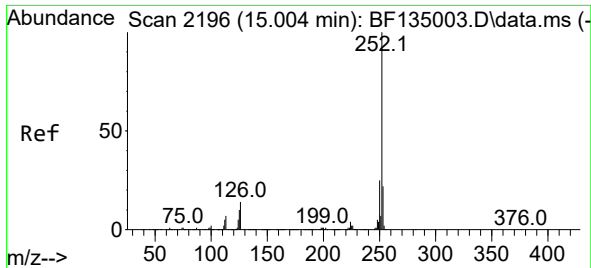
Ion Ratio Lower Upper

264 100

260 23.8 19.0 28.6

265 22.7 18.2 27.2





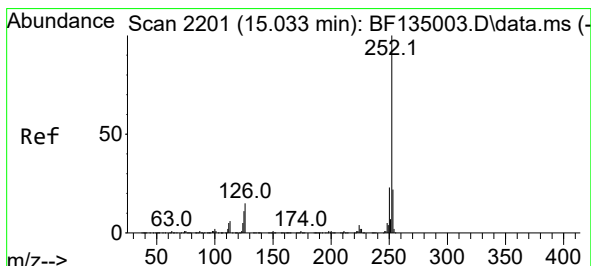
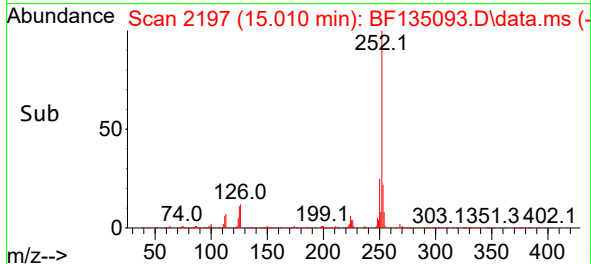
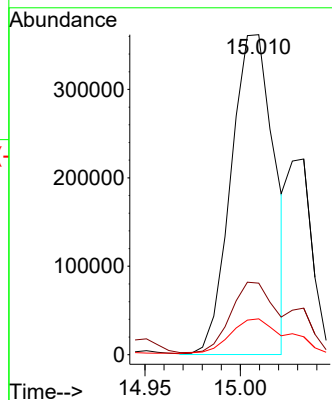
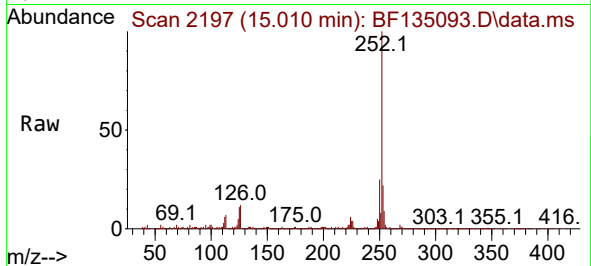
#88
Benzo(b)fluoranthene
Concen: 48.050 ng m
RT: 15.010 min Scan# 2196
Delta R.T. 0.006 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

Instrument :
BNA_F
ClientSampleId :
TP-20(2-3)

Tgt Ion:252 Resp: 57000
Ion Ratio Lower Upper
252 100
253 22.4 17.8 26.8
125 11.2 8.4 12.6

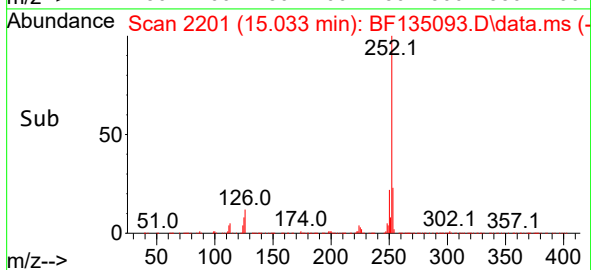
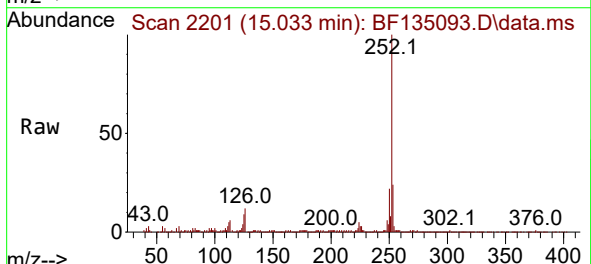
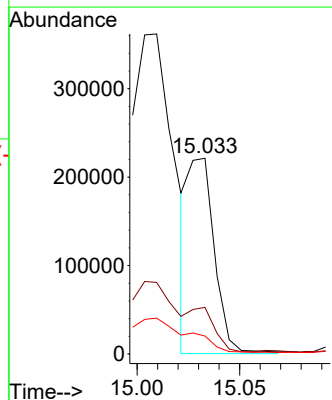
Manual Integrations
APPROVED

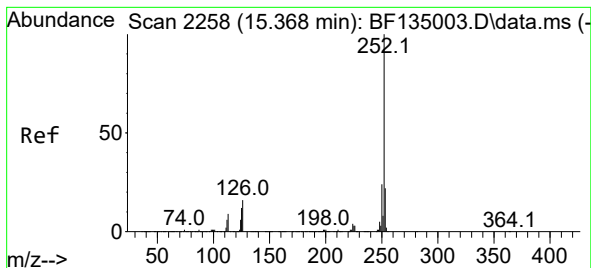
Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023



#89
Benzo(k)fluoranthene
Concen: 17.078 ng m
RT: 15.033 min Scan# 2201
Delta R.T. 0.000 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

Tgt Ion:252 Resp: 195723
Ion Ratio Lower Upper
252 100
253 23.8 17.4 26.0
125 9.1 8.5 12.7





#90

Benzo(a)pyrene

Concen: 33.413 ng

RT: 15.368 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF135093.D

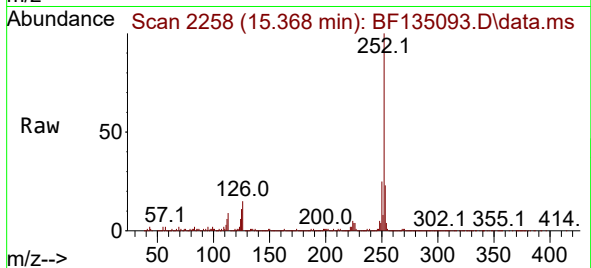
Acq: 05 Sep 2023 13:52

Instrument :

BNA_F

ClientSampleId :

TP-20(2-3)



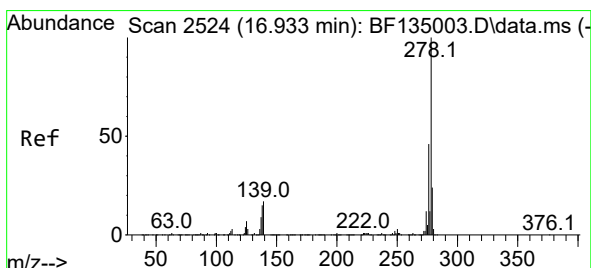
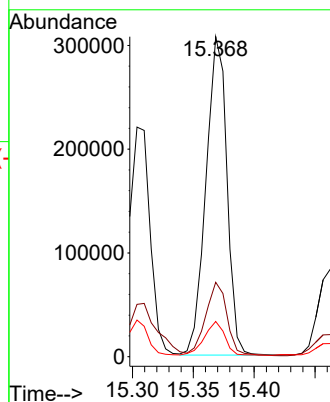
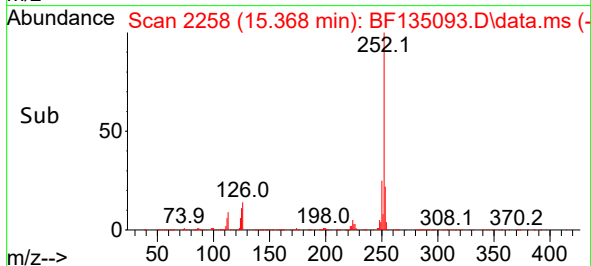
Tgt Ion:	252	Resp:	368214
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.4	26.0
125	11.0	9.5	14.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/06/2023

Supervised By :mohammad ahmed 09/07/2023



#91

Dibenzo(a,h)anthracene

Concen: 6.483 ng m

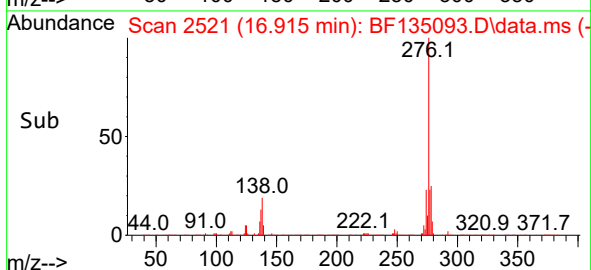
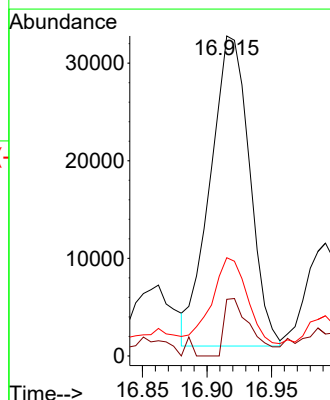
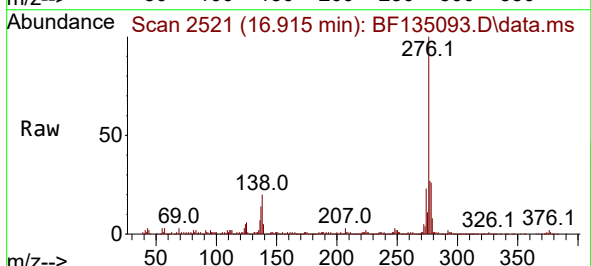
RT: 16.915 min Scan# 2521

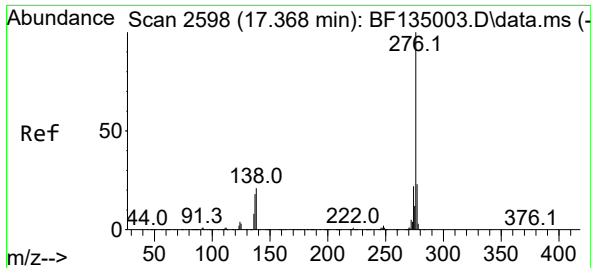
Delta R.T. -0.018 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

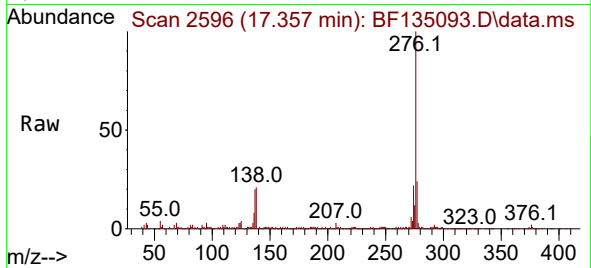
Tgt Ion:	278	Resp:	67429
Ion Ratio	Lower	Upper	
278	100		
139	17.7	13.4	20.2
279	30.7	19.5	29.3





#92
Benzo(g,h,i)perylene
Concen: 19.720 ng
RT: 17.357 min Scan# 213310
Delta R.T. -0.012 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

Instrument :
BNA_F
ClientSampleId :
TP-20(2-3)



Tgt Ion:276 Resp: 213310
Ion Ratio Lower Upper
276 100
277 23.8 18.5 27.7
138 21.4 17.1 25.7

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/06/2023
Supervised By :mohammad ahmed 09/07/2023

