

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
 Data File : BF135672.D
 Acq On : 10 Oct 2023 02:17
 Operator : CG\JU
 Sample : 04609-03
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-2

Quant Time: Oct 10 04:23:50 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 04 17:06:20 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/11/2023
 Supervised By :mohammad ahmed 10/11/2023

10/11/2023
 Supervised By :mohammad
 ahmed

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.740	152	108279	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	421324	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	196814	20.000	ng	0.00
64) Phenanthrene-d10	11.269	188	324409	20.000	ng	0.00
76) Chrysene-d12	13.933	240	204879	20.000	ng	0.00
86) Perylene-d12	15.404	264	190504	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.381	112	717064	107.709	ng	0.01
7) Phenol-d6	6.393	99	908137	107.278	ng	0.00
23) Nitrobenzene-d5	7.304	82	567134	73.131	ng	0.00
42) 2,4,6-Tribromophenol	10.575	330	199421	101.961	ng	0.00
45) 2-Fluorobiphenyl	9.098	172	1010194	77.439	ng	0.00
79) Terphenyl-d14	12.869	244	809688	61.264	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	8.040	128	75696	3.698	ng	98
52) Acenaphthene	9.804	154	77962	7.236	ng	99
55) Dibenzofuran	9.981	168	96283	5.856	ng	98
58) Fluorene	10.328	166	101114	8.000	ng	98
71) Phenanthrene	11.298	178	915729	59.683	ng	99
72) Anthracene	11.345	178	311859	19.774	ng	99
73) Carbazole	11.510	167	77255	5.381	ng	99
75) Fluoranthene	12.498	202	1132434	70.833	ng	98
78) Pyrene	12.727	202	948851	48.644	ng	100
81) Benzo(a)anthracene	13.921	228	525266	39.704	ng	98
83) Chrysene	13.963	228	428119	32.549	ng	98
87) Indeno(1,2,3-cd)pyrene	16.892	276	167441	13.405	ng	96
88) Benzo(b)fluoranthene	14.980	252	510471m	49.499	ng	
89) Benzo(k)fluoranthene	15.004	252	137470m	13.495	ng	
90) Benzo(a)pyrene	15.345	252	325093	33.056	ng	99
91) Dibenzo(a,h)anthracene	16.892	278	46885m	4.588	ng	
92) Benzo(g,h,i)perylene	17.345	276	147975	13.864	ng	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
Data File : BF135672.D
Acq On : 10 Oct 2023 02:17
Operator : CG\JU
Sample : 04609-03
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-2

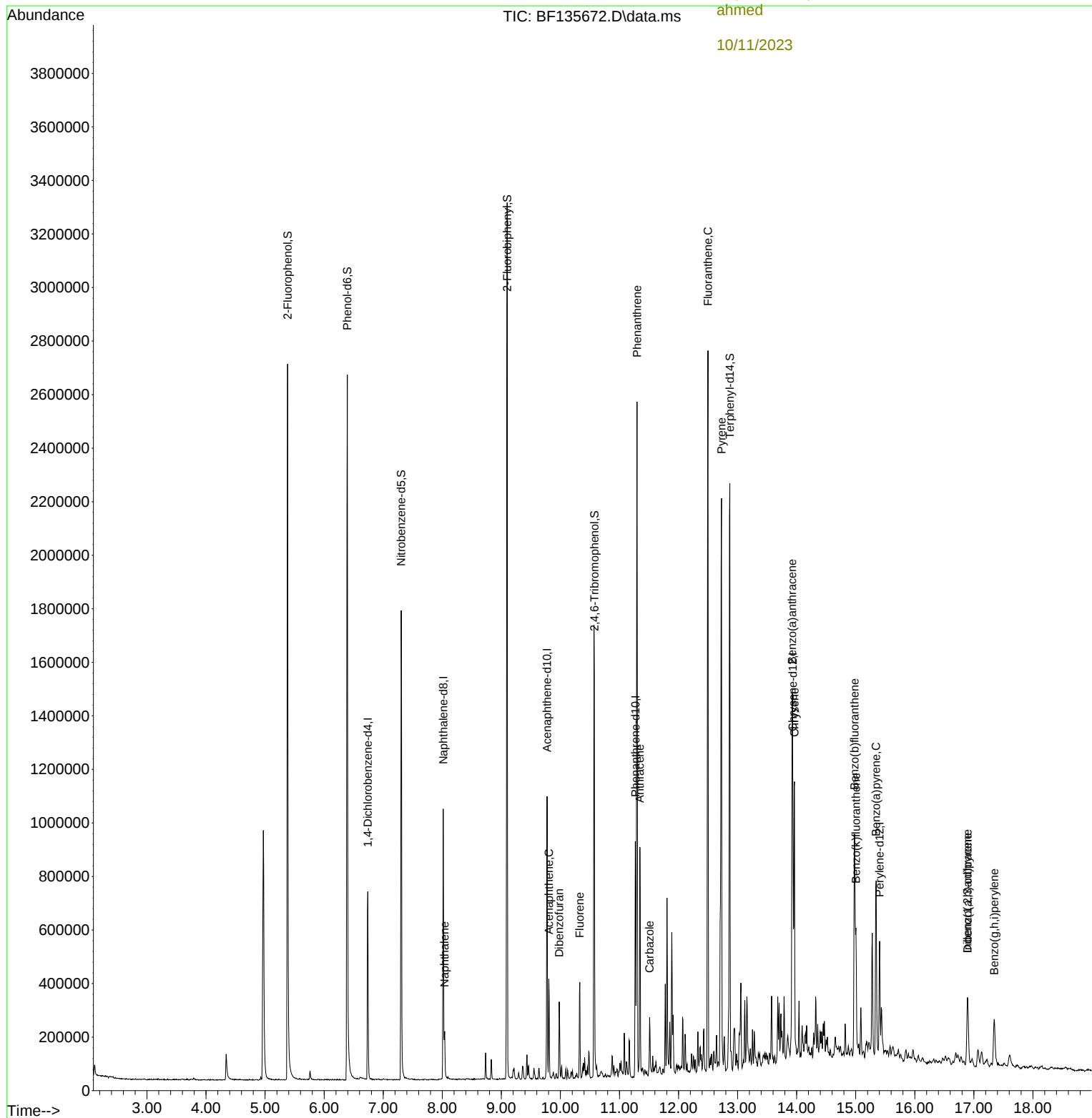
Quant Time: Oct 10 04:23:50 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 04 17:06:20 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

10/11/2023
Supervised By :mohammad
ahmed

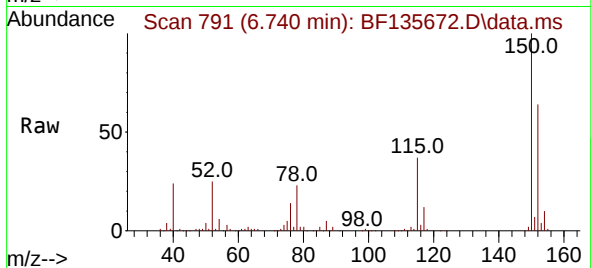
10/11/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.740 min Scan# 795
Delta R.T. 0.001 min
Lab File: BF135672.D
Acq: 10 Oct 2023 02:17

Instrument :
BNA_F
ClientSampleId :
TP-2



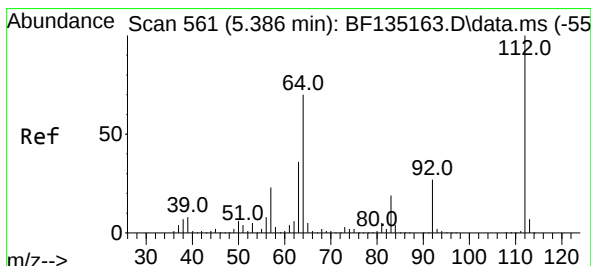
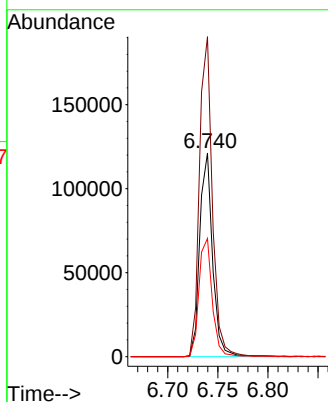
Tgt Ion:152 Resp: 108279
Ion Ratio Lower Upper
152 100
150 157.1 127.8 191.6
115 58.1 49.8 74.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

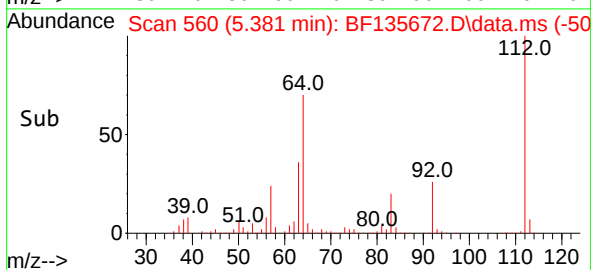
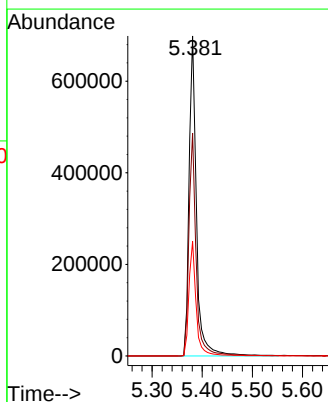
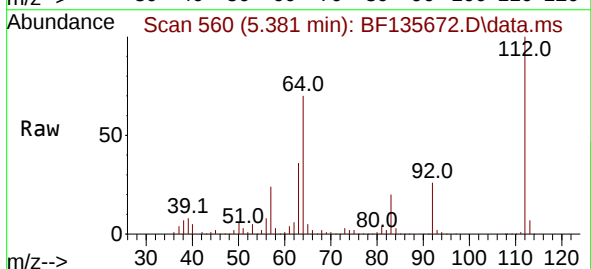
10/11/2023
Supervised By :mohammad
ahmed

10/11/2023



#5
2-Fluorophenol
Concen: 107.709 ng
RT: 5.381 min Scan# 560
Delta R.T. 0.012 min
Lab File: BF135672.D
Acq: 10 Oct 2023 02:17

Tgt Ion:112 Resp: 717064
Ion Ratio Lower Upper
112 100
64 69.6 55.9 83.9
63 35.8 29.0 43.6





#7
Phenol-d6
Concen: 107.278 ng
RT: 6.393 min Scan# 71
Delta R.T. 0.006 min
Lab File: BF135672.D
Acq: 10 Oct 2023 02:17

Instrument :
BNA_F
ClientSampleId :
TP-2

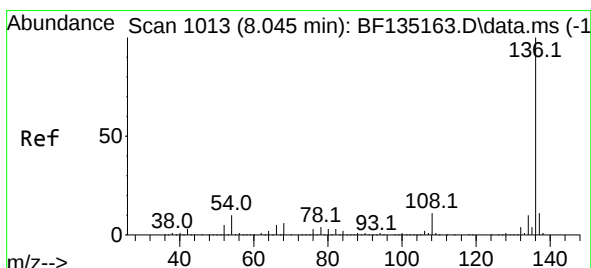
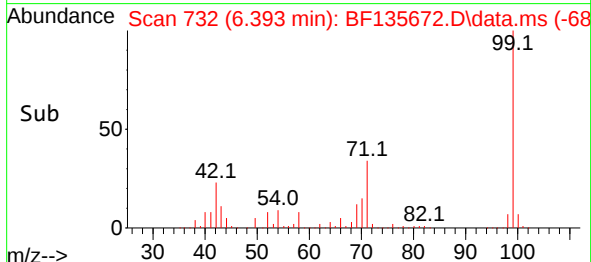
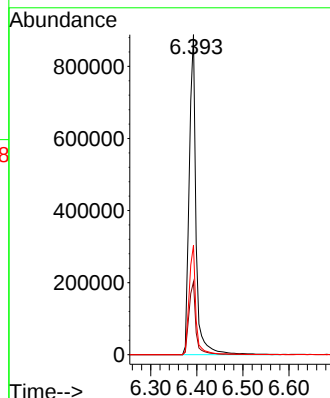
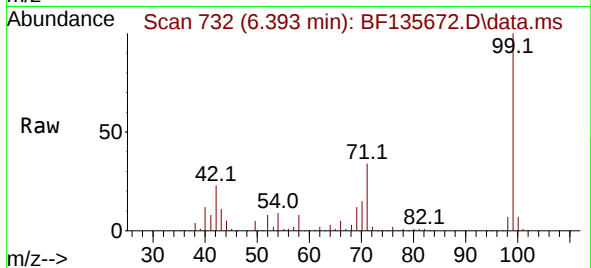
Tgt Ion: 99 Resp: 90813
Ion Ratio Lower Upper
99 100
42 22.8 17.9 26.9
71 34.2 27.0 40.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

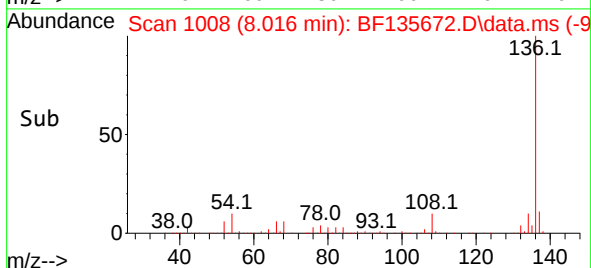
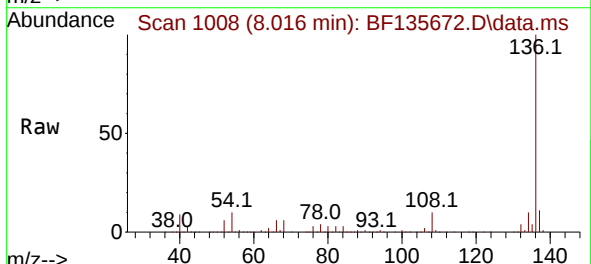
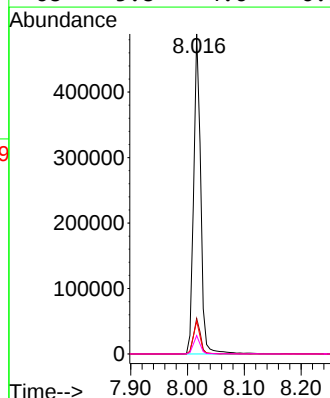
10/11/2023
Supervised By :mohammad
ahmed

10/11/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BF135672.D
Acq: 10 Oct 2023 02:17

Tgt Ion:136 Resp: 421324
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 10.3 7.7 11.5
68 5.8 4.6 6.8





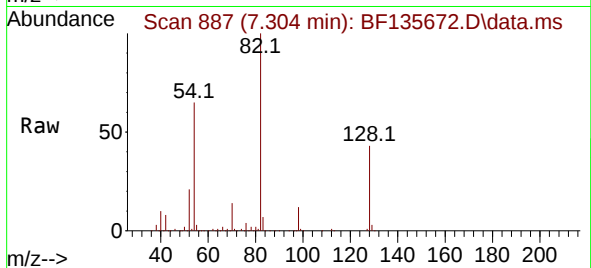
#23
Nitrobenzene-d5
Concen: 73.131 ng
RT: 7.304 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF135672.D
Acq: 10 Oct 2023 02:17

Instrument :

BNA_F

ClientSampleId :

TP-2



Tgt Ion: 82 Resp: 567134
Ion Ratio Lower Upper
82 100
128 43.3 35.8 53.6
54 64.9 50.6 76.0

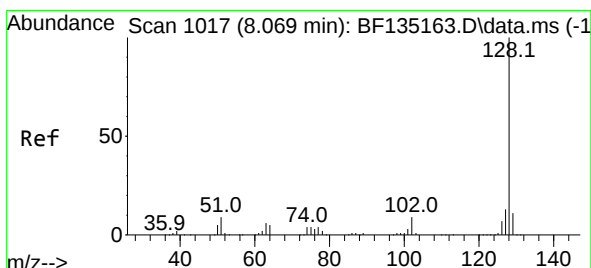
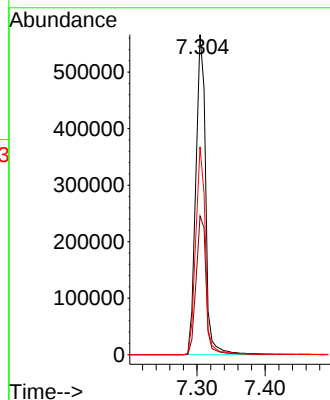
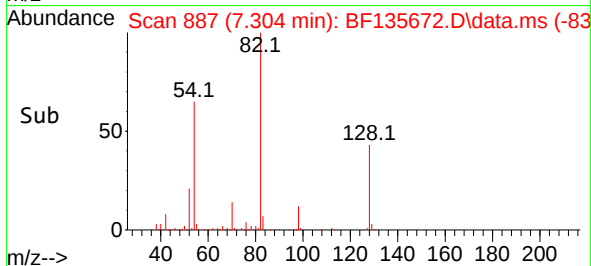
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

10/11/2023

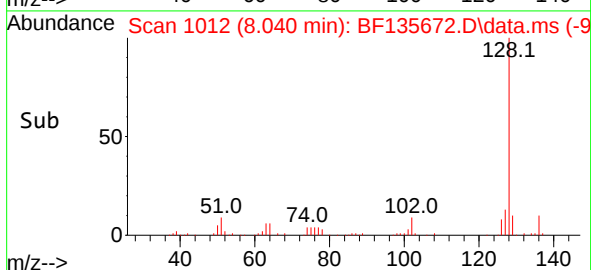
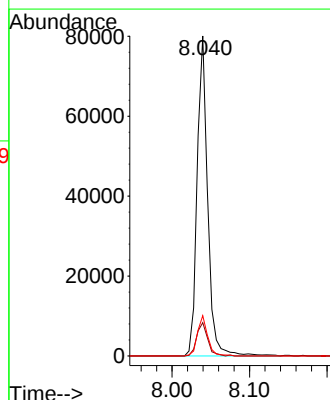
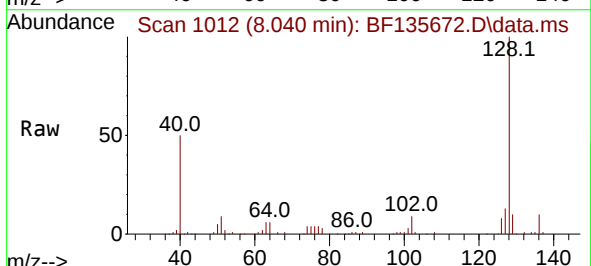
Supervised By :mohammad
ahmed

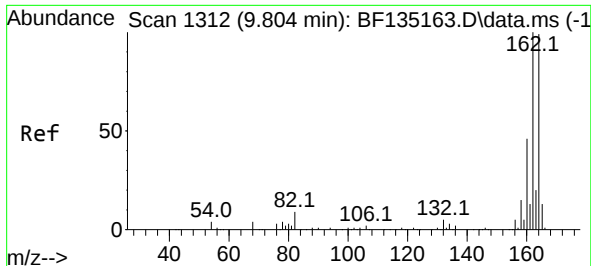
10/11/2023



#31
Naphthalene
Concen: 3.698 ng
RT: 8.040 min Scan# 1012
Delta R.T. 0.000 min
Lab File: BF135672.D
Acq: 10 Oct 2023 02:17

Tgt Ion:128 Resp: 75696
Ion Ratio Lower Upper
128 100
129 10.4 8.7 13.1
127 12.6 10.7 16.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.775 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF135672.D

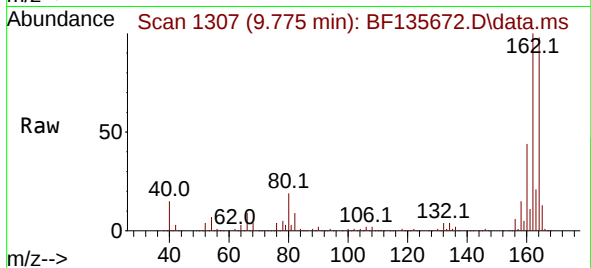
Acq: 10 Oct 2023 02:17

Instrument :

BNA_F

ClientSampleId :

TP-2



Tgt Ion:164 Resp: 196814

Ion Ratio Lower Upper

164 100

162 102.1 81.0 121.4

160 44.9 37.0 55.4

Manual Integrations

APPROVED

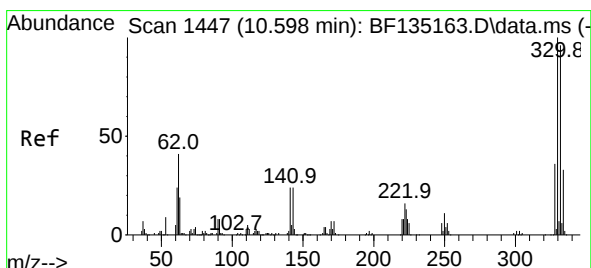
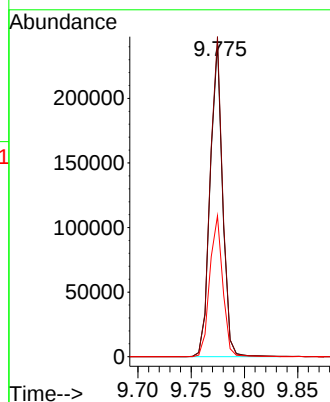
Reviewed By :Yogesh Patel 10/11/2023

Supervised By :mohammad ahmed 10/11/2023

10/11/2023

Supervised By :mohammad
ahmed

10/11/2023



#42

2,4,6-Tribromophenol

Concen: 101.961 ng

RT: 10.575 min Scan# 1443

Delta R.T. 0.006 min

Lab File: BF135672.D

Acq: 10 Oct 2023 02:17

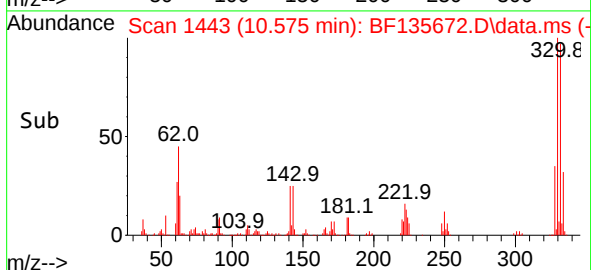
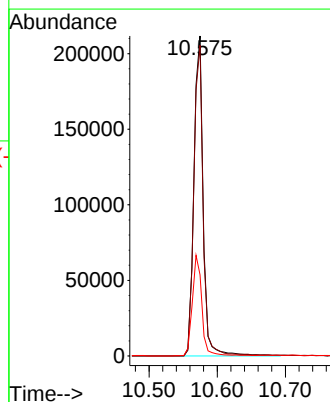
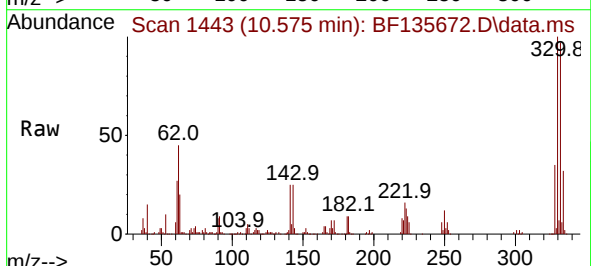
Tgt Ion:330 Resp: 199421

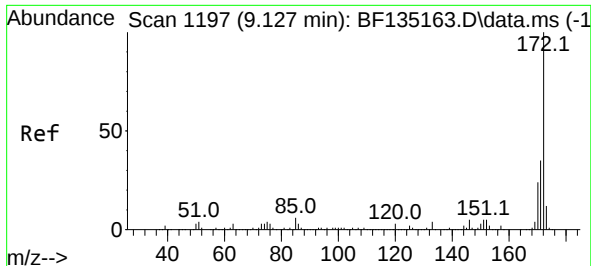
Ion Ratio Lower Upper

330 100

332 97.5 77.3 115.9

141 32.5 25.8 38.8





#45

2-Fluorobiphenyl

Concen: 77.439 ng

RT: 9.098 min Scan# 1197

Delta R.T. 0.000 min

Lab File: BF135672.D

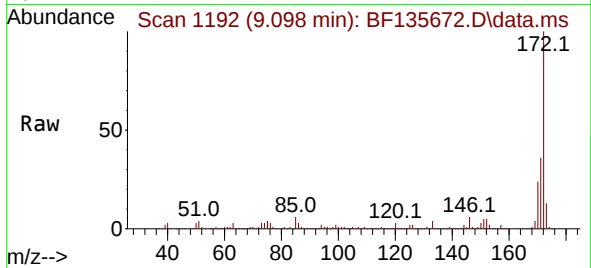
Acq: 10 Oct 2023 02:17

Instrument :

BNA_F

ClientSampleId :

TP-2



Tgt Ion:172 Resp: 1010194

Ion Ratio Lower Upper

172 100

171 35.6 28.4 42.6

170 24.0 19.0 28.4

Manual Integrations

APPROVED

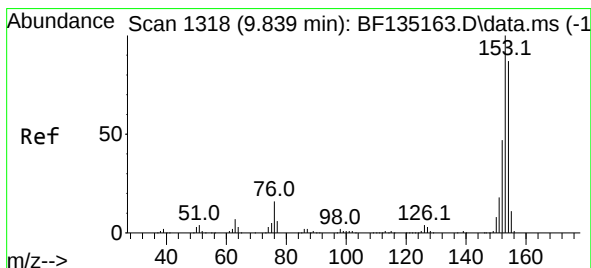
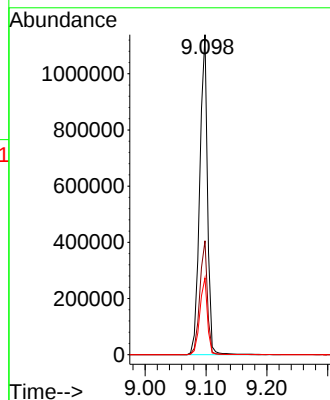
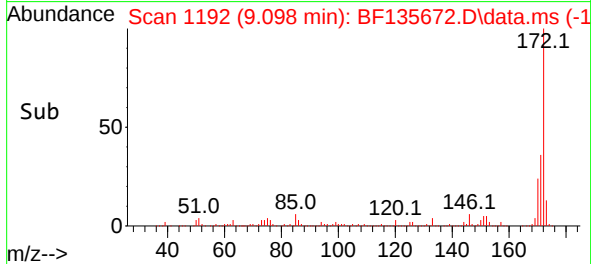
Reviewed By :Yogesh Patel 10/11/2023

Supervised By :mohammad ahmed 10/11/2023

10/11/2023

Supervised By :mohammad
ahmed

10/11/2023



#52

Acenaphthene

Concen: 7.236 ng

RT: 9.804 min Scan# 1312

Delta R.T. -0.006 min

Lab File: BF135672.D

Acq: 10 Oct 2023 02:17

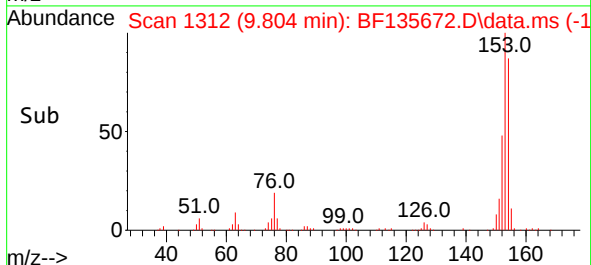
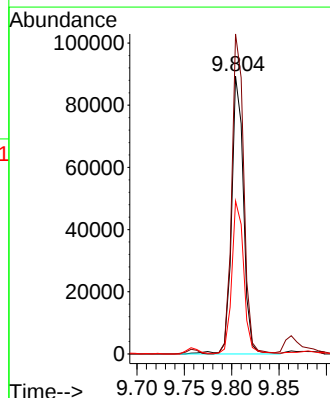
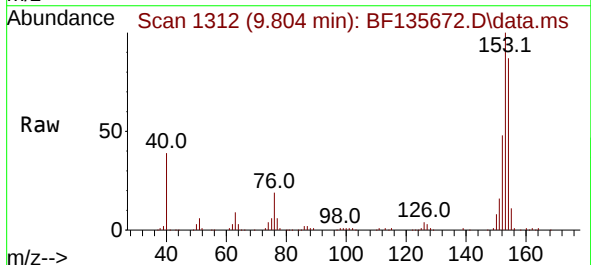
Tgt Ion:154 Resp: 77962

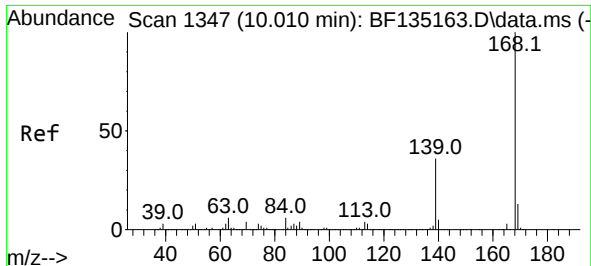
Ion Ratio Lower Upper

154 100

153 115.3 92.1 138.1

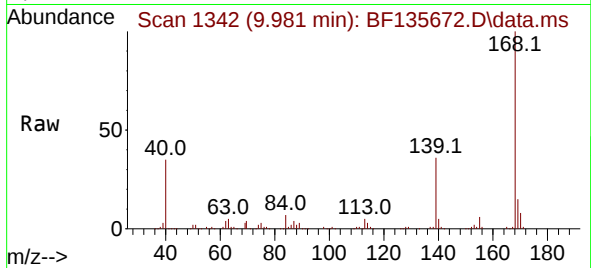
152 55.1 43.1 64.7





#55
Dibenzenofuran
Concen: 5.856 ng
RT: 9.981 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF135672.D
Acq: 10 Oct 2023 02:17

Instrument :
BNA_F
ClientSampleId :
TP-2



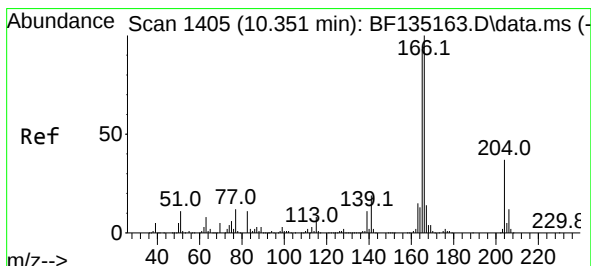
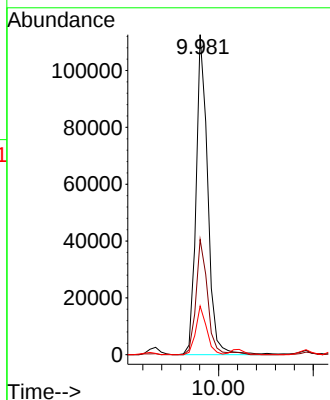
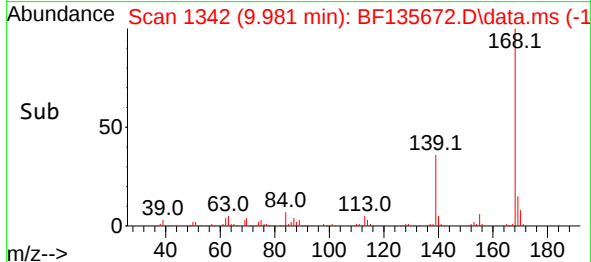
Tgt Ion:168 Resp: 9628
Ion Ratio Lower Upper
168 100
139 36.0 29.0 43.6
169 15.2 10.4 15.6

Manual Integrations
APPROVED

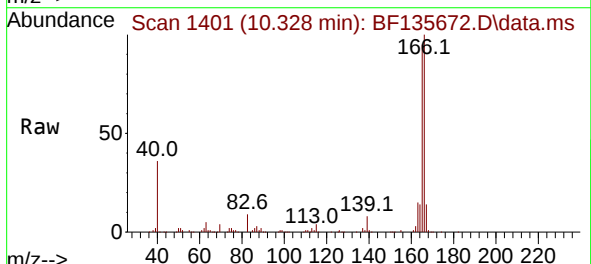
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

10/11/2023
Supervised By :mohammad
ahmed

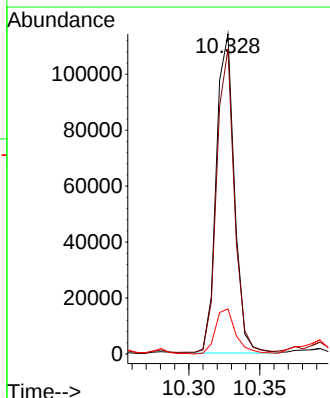
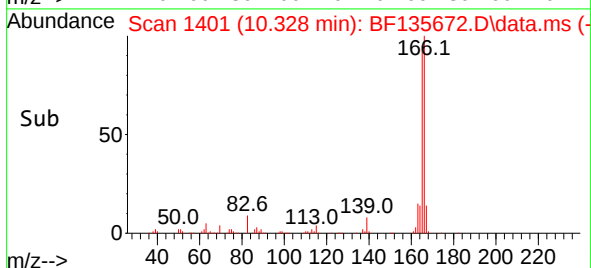
10/11/2023

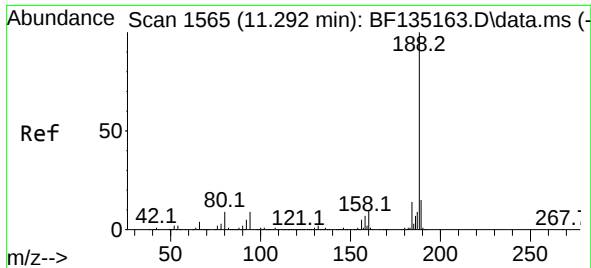


#58
Fluorene
Concen: 8.000 ng
RT: 10.328 min Scan# 1401
Delta R.T. 0.000 min
Lab File: BF135672.D
Acq: 10 Oct 2023 02:17



Tgt Ion:166 Resp: 101114
Ion Ratio Lower Upper
166 100
165 95.4 74.3 111.5
167 14.1 10.9 16.3





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.269 min Scan# 1565
Delta R.T. 0.000 min
Lab File: BF135672.D
Acq: 10 Oct 2023 02:17

Instrument :
BNA_F
ClientSampleId :
TP-2

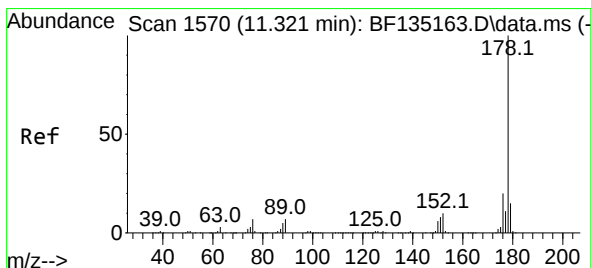
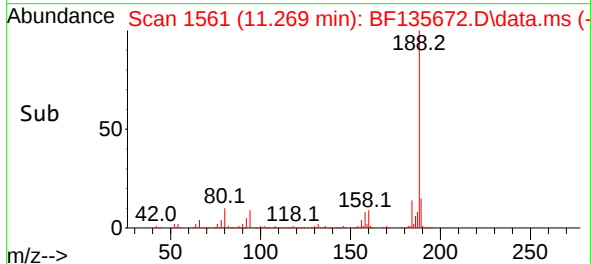
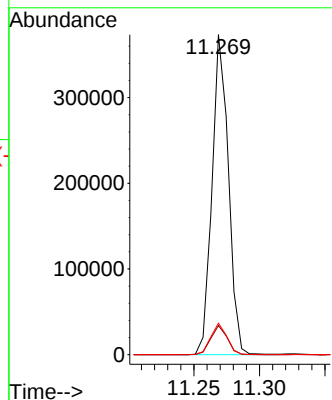
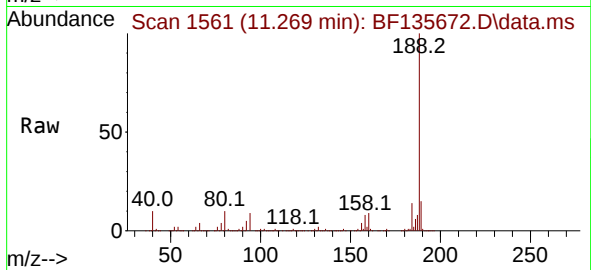
Tgt Ion:188 Resp: 324409
Ion Ratio Lower Upper
188 100
94 9.1 7.0 10.6
80 9.9 7.5 11.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

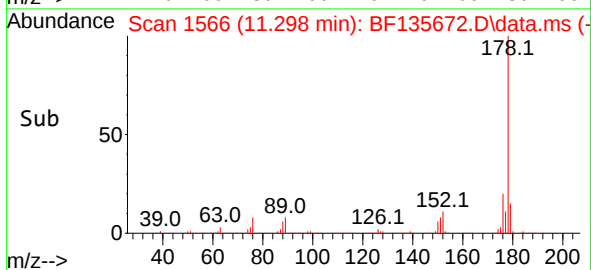
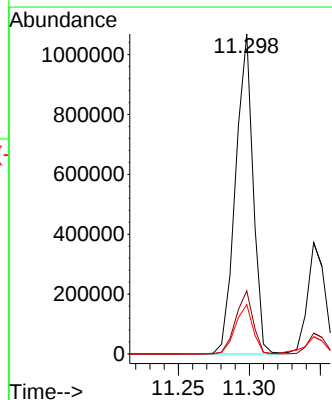
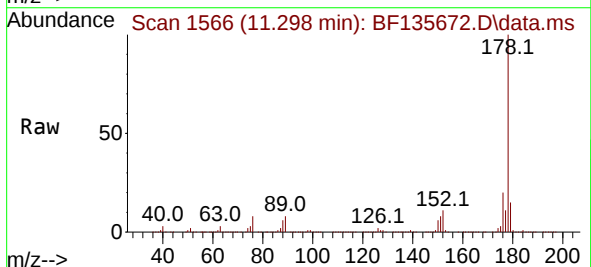
10/11/2023
Supervised By :mohammad
ahmed

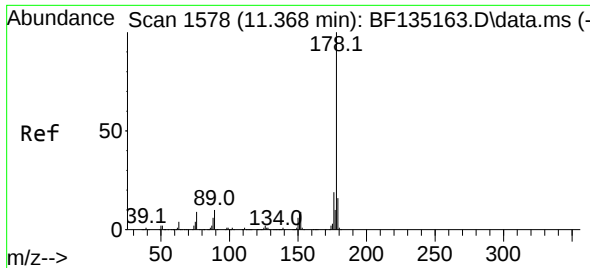
10/11/2023



#71
Phenanthrene
Concen: 59.683 ng
RT: 11.298 min Scan# 1566
Delta R.T. 0.006 min
Lab File: BF135672.D
Acq: 10 Oct 2023 02:17

Tgt Ion:178 Resp: 915729
Ion Ratio Lower Upper
178 100
176 19.8 15.6 23.4
179 15.4 12.0 18.0





#72
 Anthracene
 Concen: 19.774 ng
 RT: 11.345 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BF135672.D
 Acq: 10 Oct 2023 02:17

Instrument :
 BNA_F
 ClientSampleId :
 TP-2

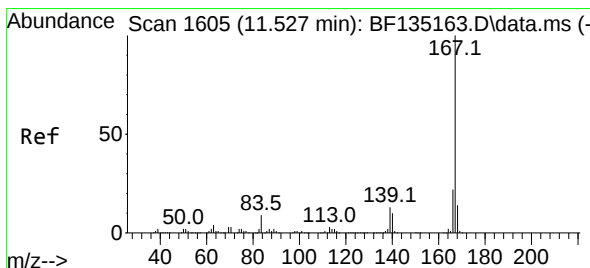
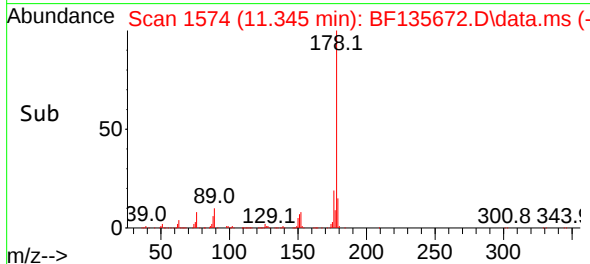
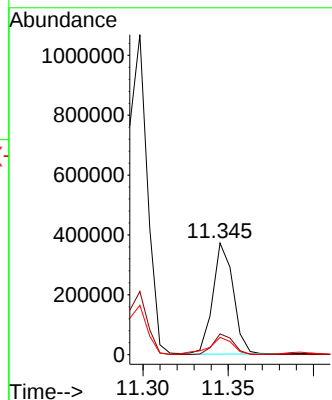
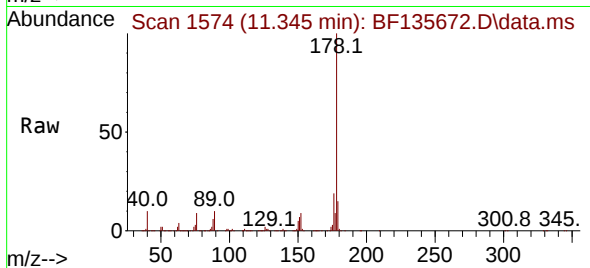
Tgt Ion:178 Resp: 31185
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.4 23.2
 179 15.5 12.6 19.0

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/11/2023
 Supervised By :mohammad ahmed 10/11/2023

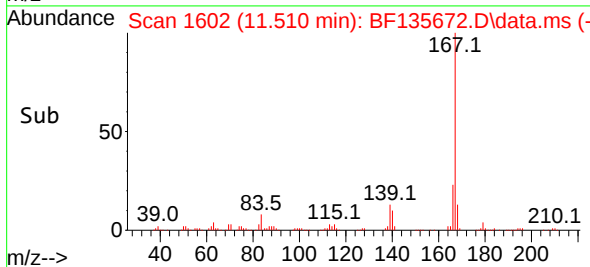
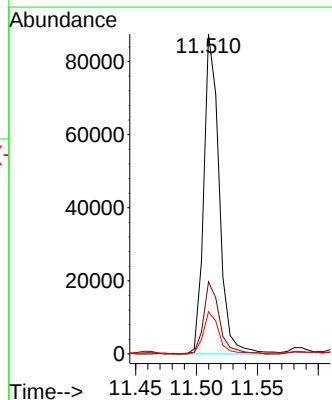
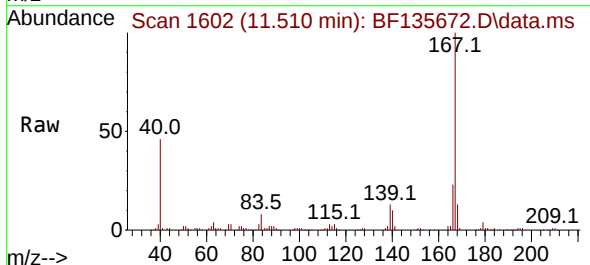
10/11/2023
 Supervised By :mohammad
 ahmed

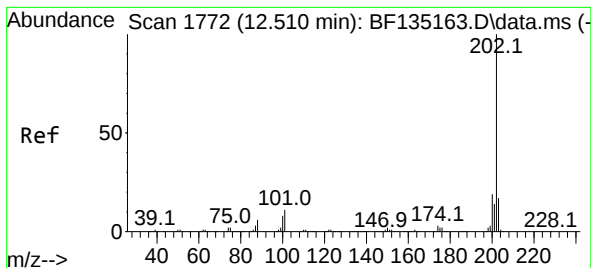
10/11/2023



#73
 Carbazole
 Concen: 5.381 ng
 RT: 11.510 min Scan# 1602
 Delta R.T. 0.000 min
 Lab File: BF135672.D
 Acq: 10 Oct 2023 02:17

Tgt Ion:167 Resp: 77255
 Ion Ratio Lower Upper
 167 100
 166 22.6 17.4 26.0
 139 13.2 10.6 15.8





#75

Fluoranthene

Concen: 70.833 ng

RT: 12.498 min Scan# 1

Delta R.T. 0.012 min

Lab File: BF135672.D

Acq: 10 Oct 2023 02:17

Instrument :

BNA_F

ClientSampleId :

TP-2

Tgt Ion:202 Resp: 113243

Ion Ratio Lower Upper

202 100

101 9.6 0.0 31.3

203 17.7 0.0 37.4

Manual Integrations

APPROVED

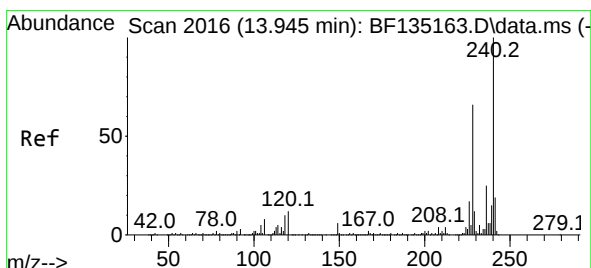
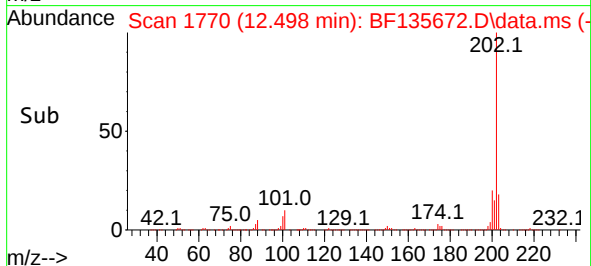
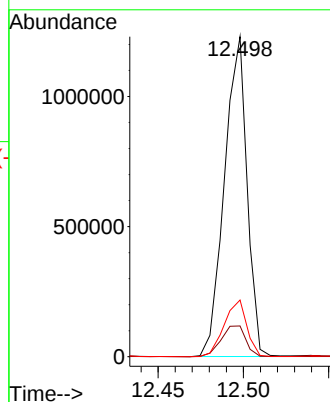
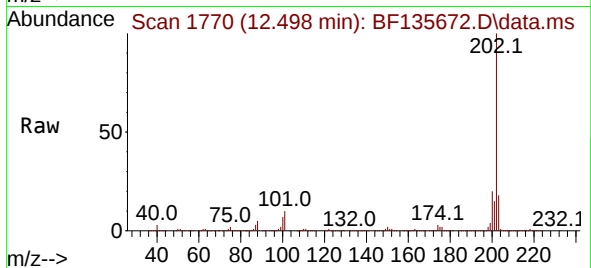
Reviewed By :Yogesh Patel 10/11/2023

Supervised By :mohammad ahmed 10/11/2023

10/11/2023

Supervised By :mohammad
ahmed

10/11/2023



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.933 min Scan# 2014

Delta R.T. 0.006 min

Lab File: BF135672.D

Acq: 10 Oct 2023 02:17

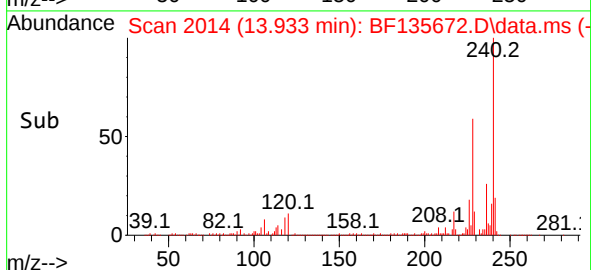
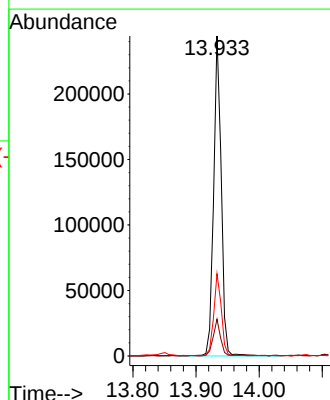
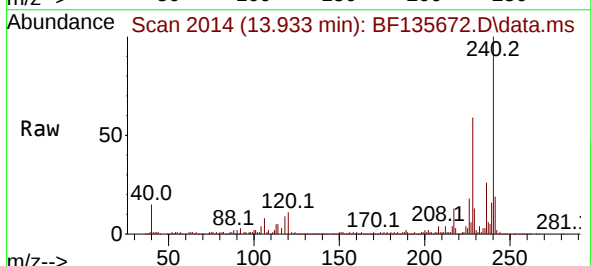
Tgt Ion:240 Resp: 204879

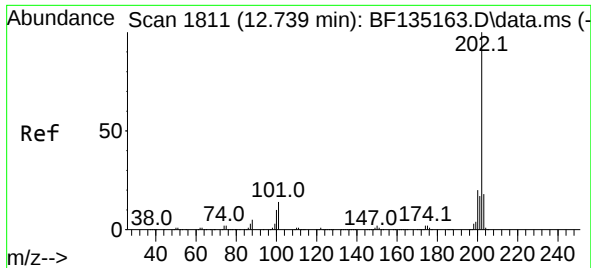
Ion Ratio Lower Upper

240 100

120 11.5 9.4 14.2

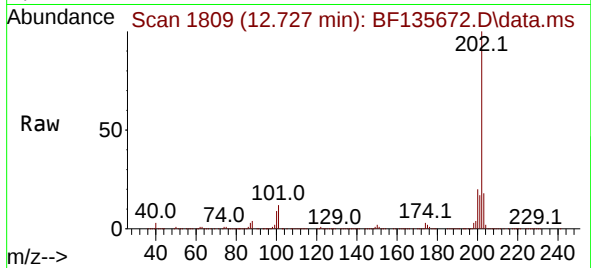
236 25.7 19.8 29.8





#78
Pyrene
Concen: 48.644 ng
RT: 12.727 min Scan# 1809
Delta R.T. 0.012 min
Lab File: BF135672.D
Acq: 10 Oct 2023 02:17

Instrument :
BNA_F
ClientSampleId :
TP-2



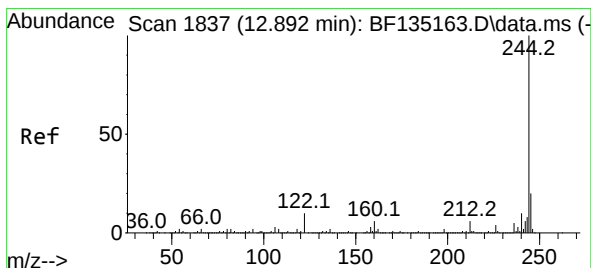
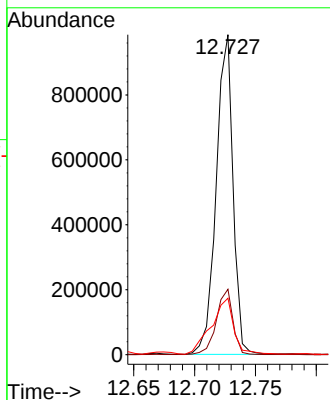
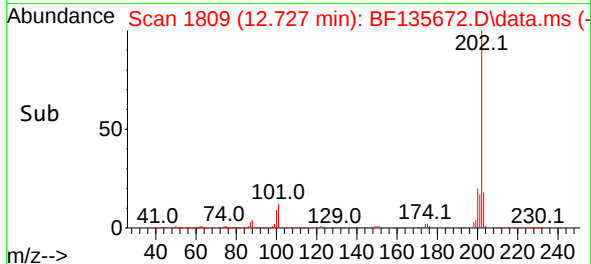
Tgt Ion:202 Resp: 94885
Ion Ratio Lower Upper
202 100
200 20.5 16.2 24.2
203 17.6 14.2 21.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

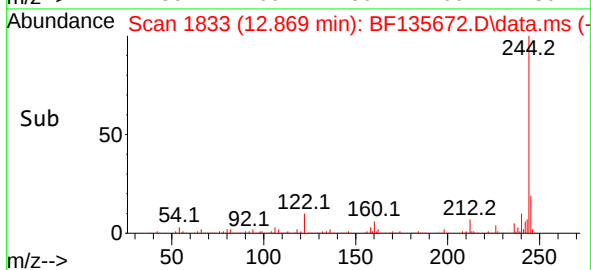
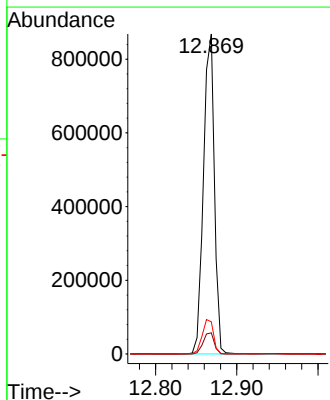
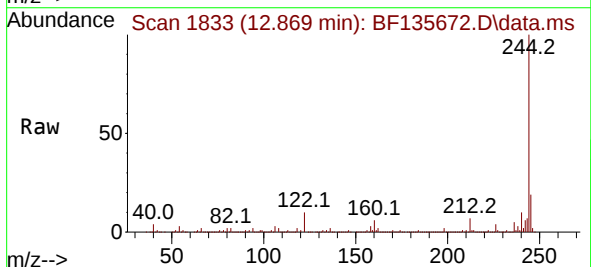
10/11/2023
Supervised By :mohammad
ahmed

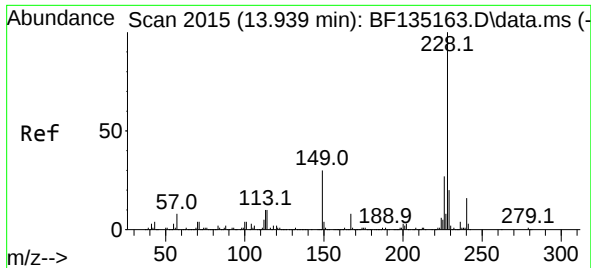
10/11/2023



#79
Terphenyl-d14
Concen: 61.264 ng
RT: 12.869 min Scan# 1833
Delta R.T. 0.006 min
Lab File: BF135672.D
Acq: 10 Oct 2023 02:17

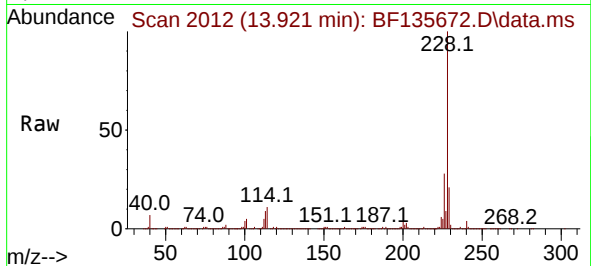
Tgt Ion:244 Resp: 809688
Ion Ratio Lower Upper
244 100
212 6.6 5.1 7.7
122 10.1 7.9 11.9





#81
Benzo(a)anthracene
Concen: 39.704 ng
RT: 13.921 min Scan# 2019
Delta R.T. 0.006 min
Lab File: BF135672.D
Acq: 10 Oct 2023 02:17

Instrument :
BNA_F
ClientSampleId :
TP-2



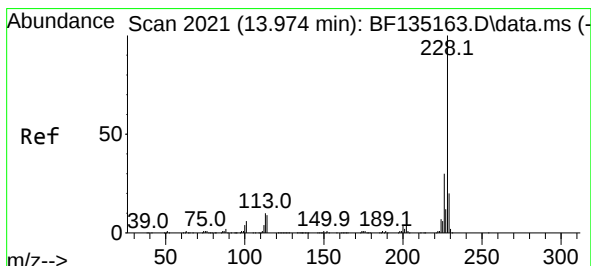
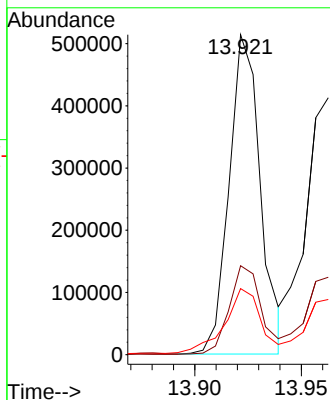
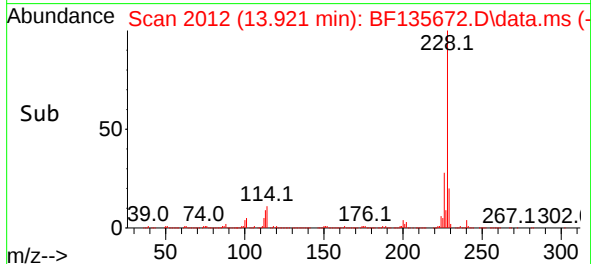
Tgt Ion:228 Resp: 525260
Ion Ratio Lower Upper
228 100
226 27.8 21.7 32.5
229 20.6 15.8 23.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

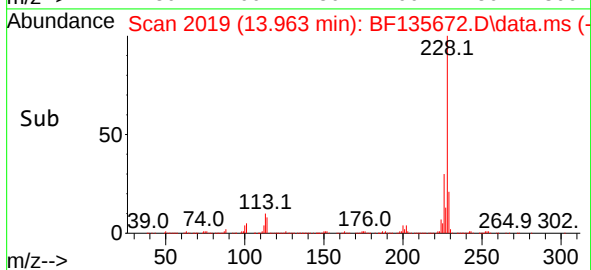
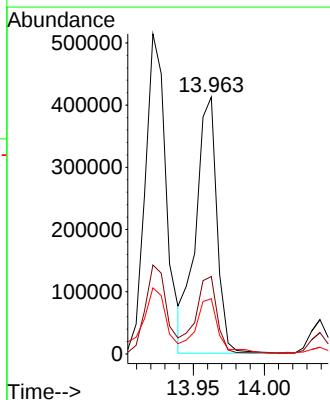
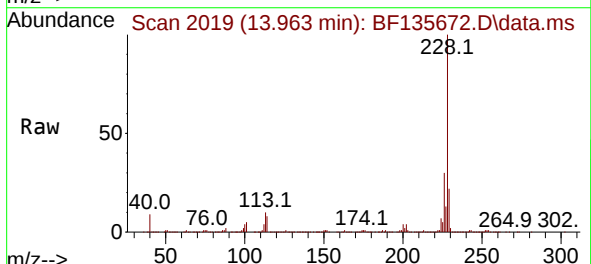
10/11/2023
Supervised By :mohammad
ahmed

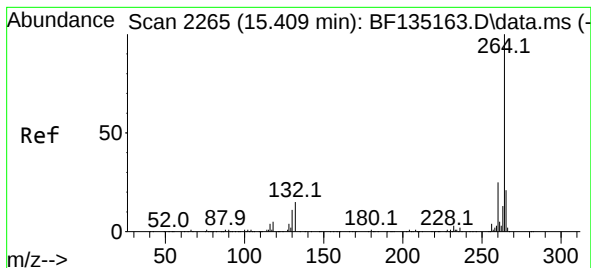
10/11/2023



#83
Chrysene
Concen: 32.549 ng
RT: 13.963 min Scan# 2019
Delta R.T. 0.012 min
Lab File: BF135672.D
Acq: 10 Oct 2023 02:17

Tgt Ion:228 Resp: 428119
Ion Ratio Lower Upper
228 100
226 30.1 24.3 36.5
229 21.5 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.404 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF135672.D

Acq: 10 Oct 2023 02:17

Instrument :

BNA_F

ClientSampleId :

TP-2

Tgt Ion:264	Resp: 190504
Ion Ratio	Lower Upper
264	100
260	22.2 19.8 29.6
265	22.9 17.0 25.4

Manual Integrations

APPROVED

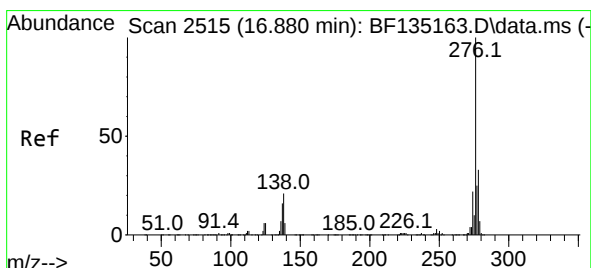
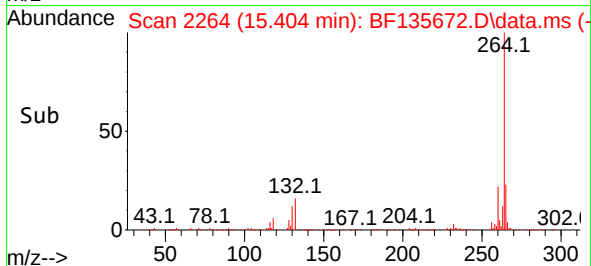
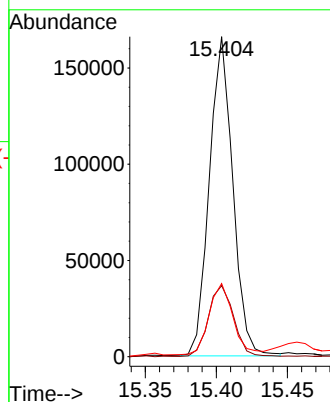
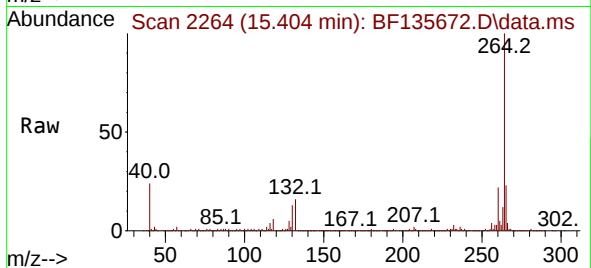
Reviewed By :Yogesh Patel 10/11/2023

Supervised By :mohammad ahmed 10/11/2023

10/11/2023

Supervised By :mohammad ahmed

10/11/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 13.405 ng

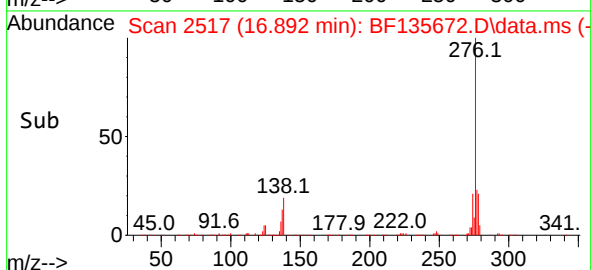
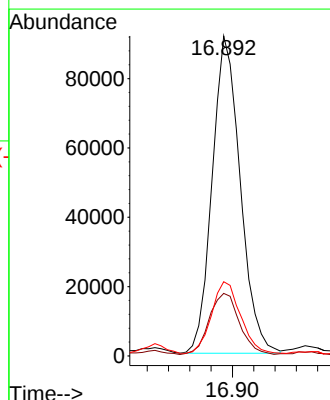
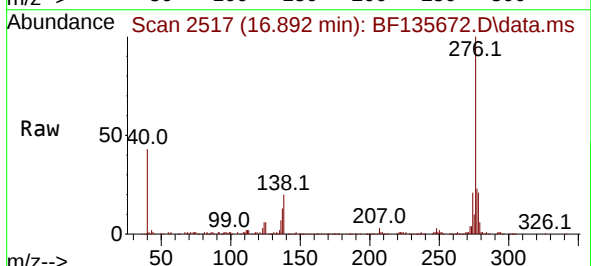
RT: 16.892 min Scan# 2517

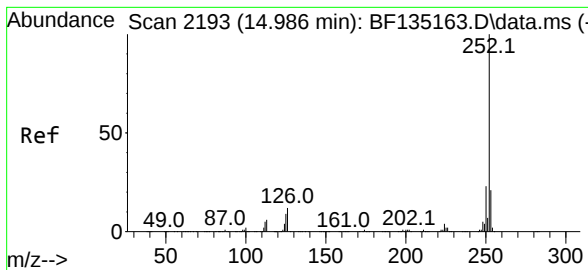
Delta R.T. 0.024 min

Lab File: BF135672.D

Acq: 10 Oct 2023 02:17

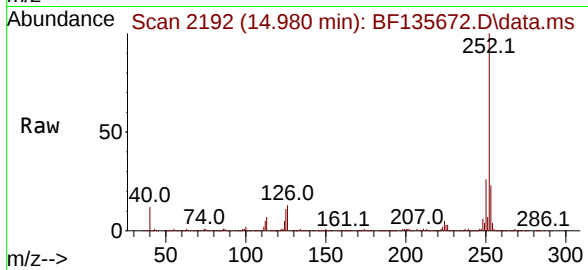
Tgt Ion:276	Resp: 167441
Ion Ratio	Lower Upper
276	100
138	20.7 19.2 28.8
277	23.9 19.7 29.5





#88
Benzo(b)fluoranthene
Concen: 49.499 ng m
RT: 14.980 min Scan# 2193
Delta R.T. 0.018 min
Lab File: BF135672.D
Acq: 10 Oct 2023 02:17

Instrument :
BNA_F
ClientSampleId :
TP-2



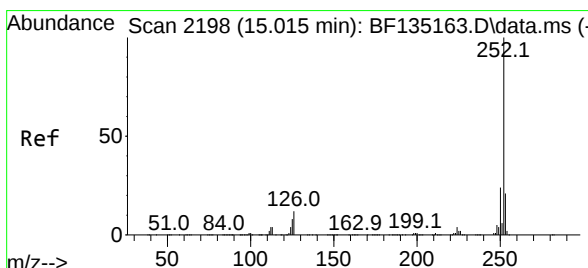
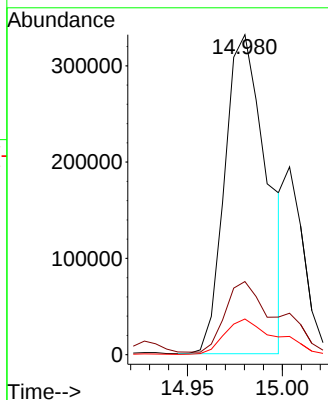
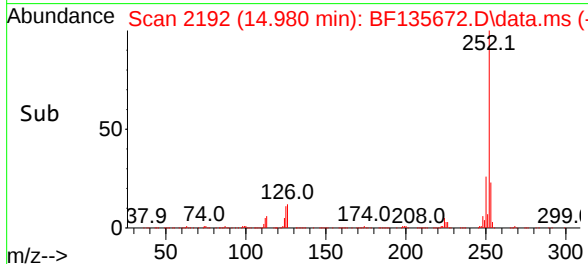
Tgt Ion:252 Resp: 51047
Ion Ratio Lower Upper
252 100
253 22.9 17.2 25.8
125 11.2 7.1 10.7

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

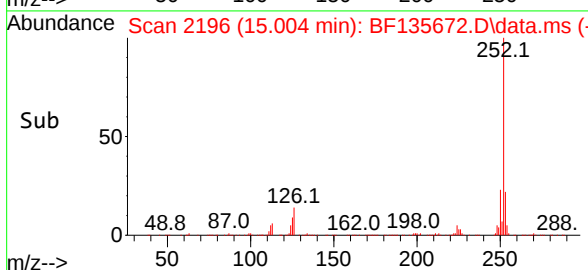
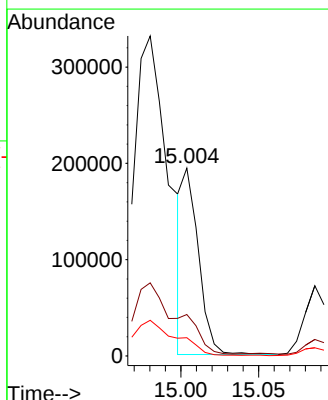
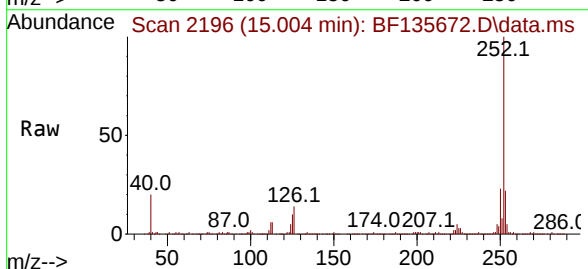
10/11/2023
Supervised By :mohammad
ahmed

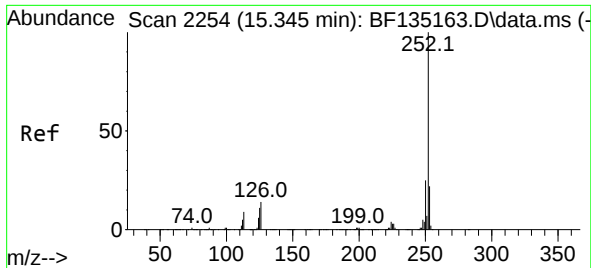
10/11/2023



#89
Benzo(k)fluoranthene
Concen: 13.495 ng m
RT: 15.004 min Scan# 2196
Delta R.T. 0.012 min
Lab File: BF135672.D
Acq: 10 Oct 2023 02:17

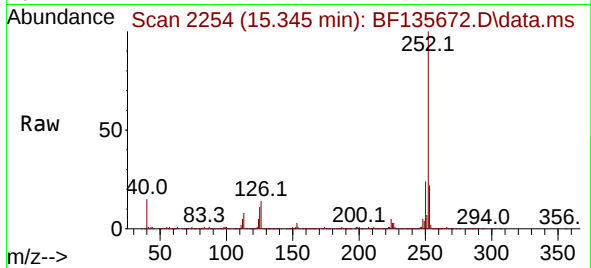
Tgt Ion:252 Resp: 137470
Ion Ratio Lower Upper
252 100
253 22.1 17.4 26.0
125 9.8 7.2 10.8





#90
Benzo(a)pyrene
Concen: 33.056 ng
RT: 15.345 min Scan# 2254
Delta R.T. 0.018 min
Lab File: BF135672.D
Acq: 10 Oct 2023 02:17

Instrument :
BNA_F
ClientSampleId :
TP-2



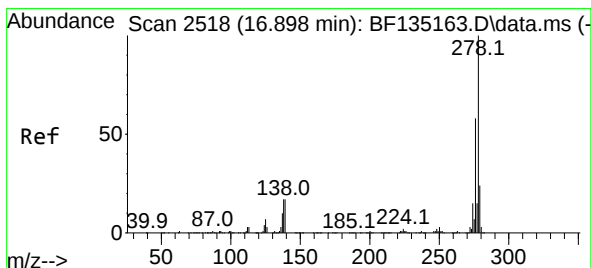
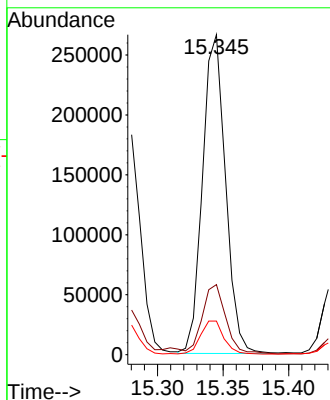
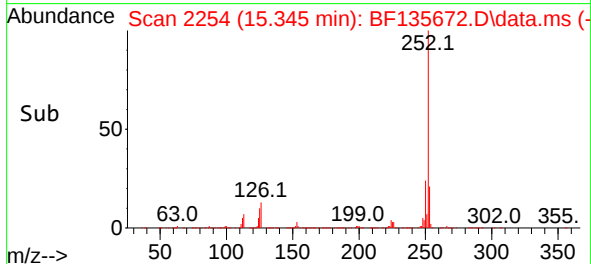
Tgt Ion:252 Resp: 32509
Ion Ratio Lower Upper
252 100
253 21.9 17.5 26.3
125 10.5 9.2 13.8

Manual Integrations
APPROVED

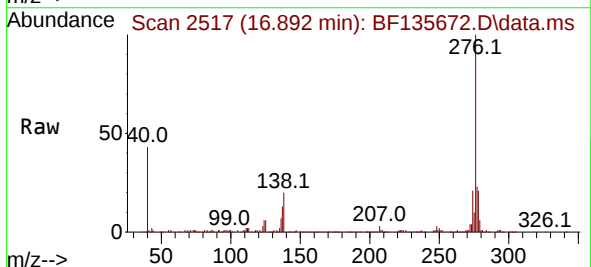
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

10/11/2023
Supervised By :mohammad
ahmed

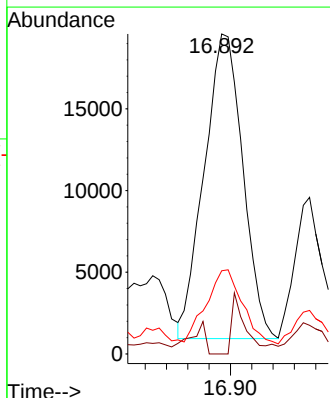
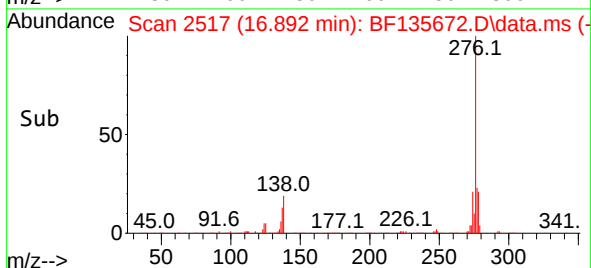
10/11/2023

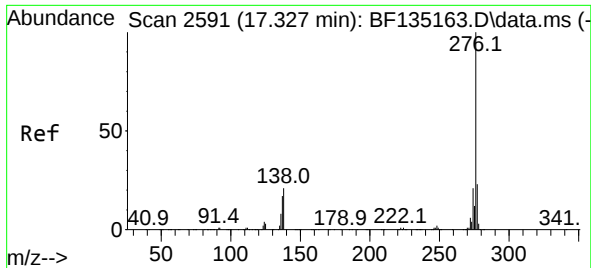


#91
Dibenzo(a,h)anthracene
Concen: 4.588 ng m
RT: 16.892 min Scan# 2517
Delta R.T. 0.012 min
Lab File: BF135672.D
Acq: 10 Oct 2023 02:17



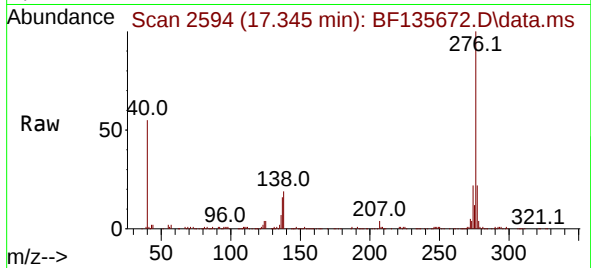
Tgt Ion:278 Resp: 46885
Ion Ratio Lower Upper
278 100
139 0.0 13.4 20.0#
279 26.0 19.0 28.6





#92
 Benzo(g,h,i)perylene
 Concen: 13.864 ng
 RT: 17.345 min Scan# 2594
 Delta R.T. 0.030 min
 Lab File: BF135672.D
 Acq: 10 Oct 2023 02:17

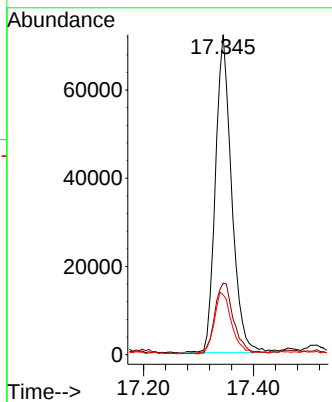
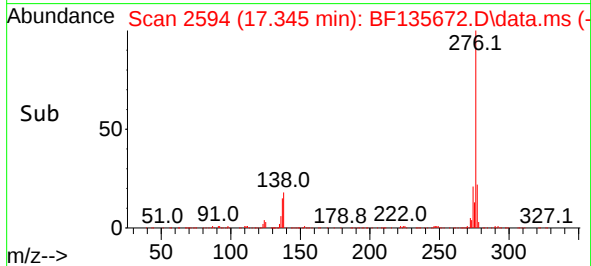
Instrument :
 BNA_F
 ClientSampleId :
 TP-2



Tgt Ion:276 Resp: 147975
 Ion Ratio Lower Upper
 276 100
 277 22.3 18.8 28.2
 138 18.7 16.9 25.3

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/11/2023
 Supervised By :mohammad ahmed 10/11/2023



10/11/2023
 Supervised By :mohammad
 ahmed
 10/11/2023