

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091323\
 Data File : BF135233.D
 Acq On : 13 Sep 2023 20:54
 Operator : CG\JU
 Sample : 04299-04DL 5X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-02-COMPDL

Manual Integrations
 APPROVED

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

Quant Time: Sep 14 02:23:39 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	98916	20.000	ng	0.00
21) Naphthalene-d8	8.040	136	360321	20.000	ng	0.00
39) Acenaphthene-d10	9.798	164	154986	20.000	ng	0.00
64) Phenanthrene-d10	11.292	188	231157	20.000	ng	0.00
76) Chrysene-d12	13.951	240	193120	20.000	ng	0.00
86) Perylene-d12	15.415	264	185117	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.387	112	132418	21.773	ng	0.00
7) Phenol-d6	6.398	99	163658	21.163	ng	0.00
23) Nitrobenzene-d5	7.322	82	89730	13.530	ng	-0.01
42) 2,4,6-Tribromophenol	10.592	330	25493	16.552	ng	0.00
45) 2-Fluorobiphenyl	9.116	172	165327	16.094	ng	-0.01
79) Terphenyl-d14	12.886	244	119521	9.594	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	8.063	128	133638	7.633	ng	99
37) 2-Methylnaphthalene	8.757	142	44445	3.777	ng	100
38) 1-Methylnaphthalene	8.851	142	30102	2.732	ng	89
52) Acenaphthene	9.834	154	67321	7.935	ng	99
55) Dibenzofuran	10.004	168	79693	6.155	ng	98
58) Fluorene	10.345	166	100792	10.127	ng	98
71) Phenanthrene	11.316	178	605125	55.350	ng	99
72) Anthracene	11.369	178	149939	13.343	ng	99
73) Carbazole	11.528	167	39170	3.829	ng	99
75) Fluoranthene	12.510	202	395561	34.723	ng	98
78) Pyrene	12.739	202	412133	22.415	ng	99
81) Benzo(a)anthracene	13.939	228	175655	14.086	ng	99
83) Chrysene	13.974	228	149513m	12.059	ng	
87) Indeno(1,2,3-cd)pyrene	16.886	276	41435	3.414	ng	98
88) Benzo(b)fluoranthene	14.986	252	131060m	13.078	ng	
89) Benzo(k)fluoranthene	15.016	252	50940m	5.146	ng	
90) Benzo(a)pyrene	15.351	252	104814	10.968	ng	97
92) Benzo(g,h,i)perylene	17.333	276	37941	3.658	ng	99

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

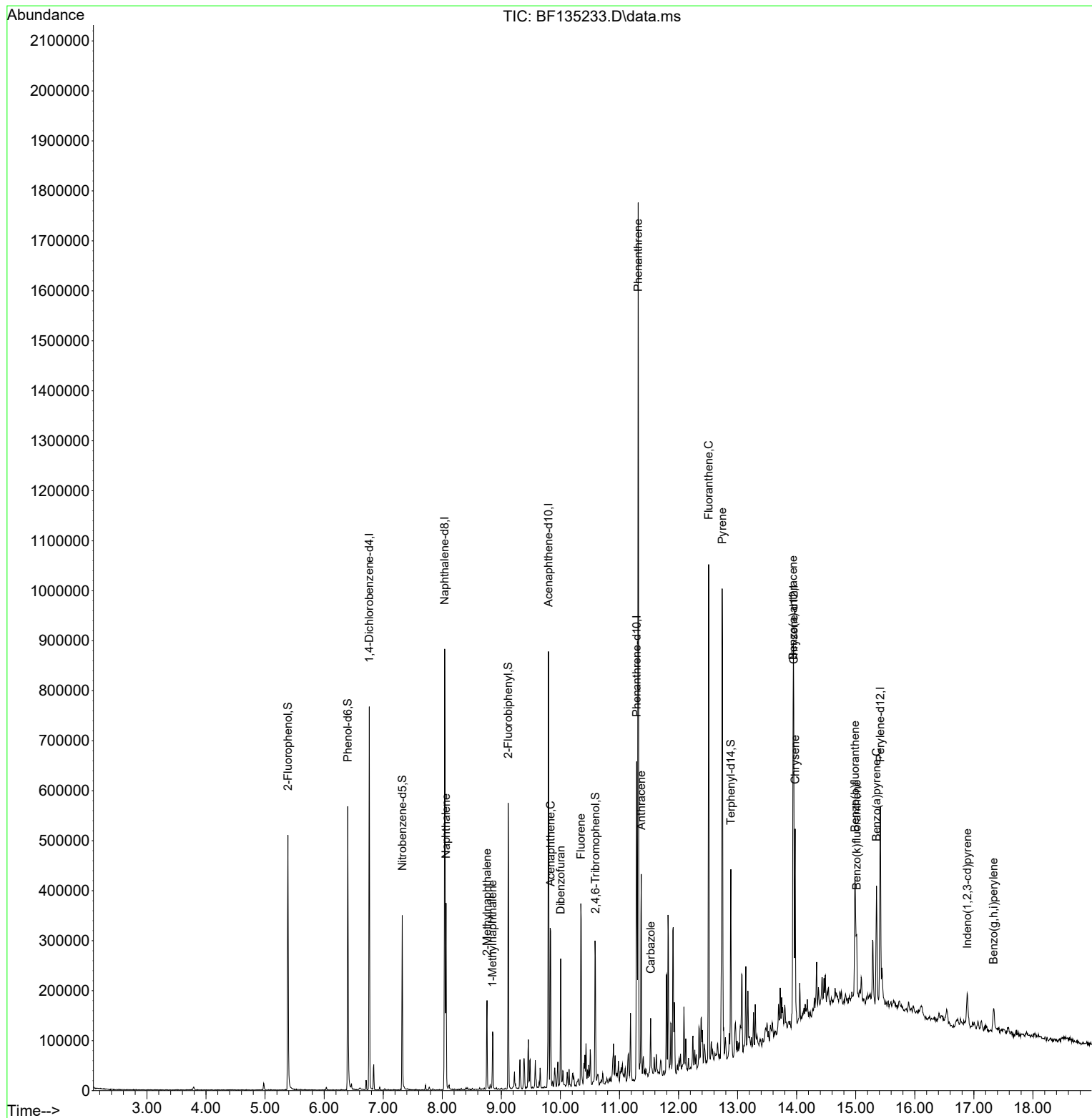
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091323\
Data File : BF135233.D
Acq On : 13 Sep 2023 20:54
Operator : CG\JU
Sample : 04299-04DL 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-02-COMPDL

Manual Integrations
APPROVED

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

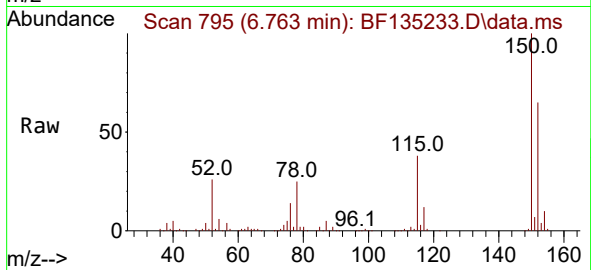
Quant Time: Sep 14 02:23:39 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 12 00:19:07 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.763 min Scan# 795
Delta R.T. 0.000 min
Lab File: BF135233.D
Acq: 13 Sep 2023 20:54

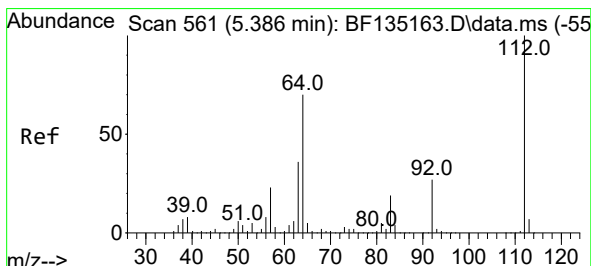
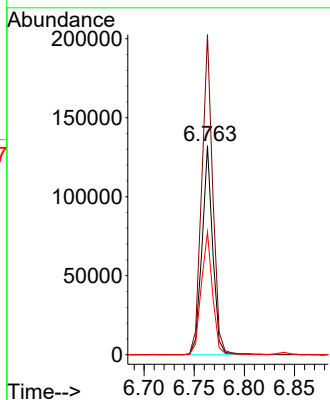
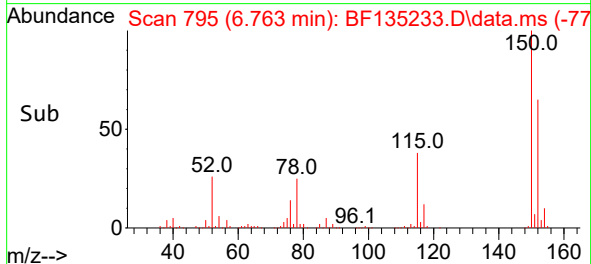
Instrument :
BNA_F
ClientSampleId :
SB-02-COMPDL



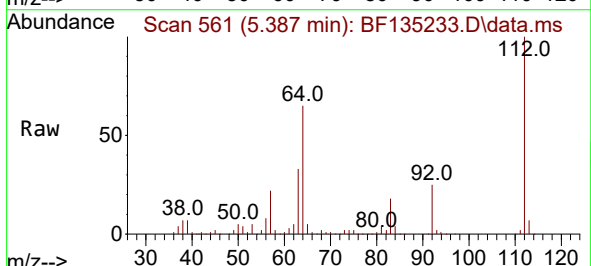
Tgt Ion:152 Resp: 98910
Ion Ratio Lower Upper
152 100
150 153.1 127.8 191.6
115 58.7 49.8 74.8

Manual Integrations
APPROVED

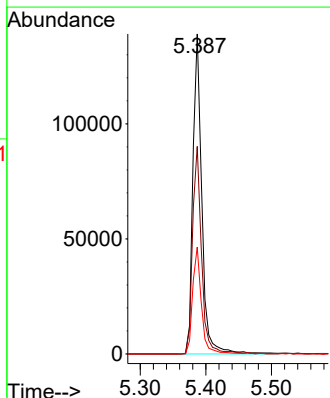
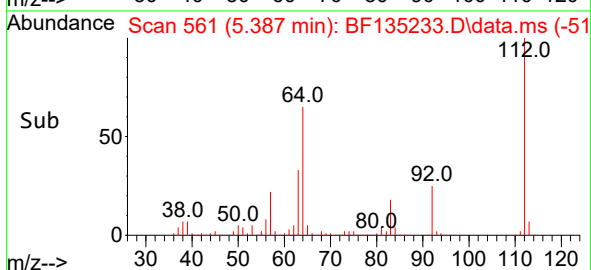
Reviewed By :Yogesh Patel 09/14/2023
Supervised By :mohammad ahmed 09/14/2023

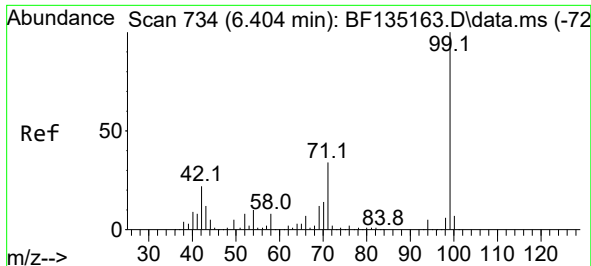


#5
2-Fluorophenol
Concen: 21.773 ng
RT: 5.387 min Scan# 561
Delta R.T. 0.000 min
Lab File: BF135233.D
Acq: 13 Sep 2023 20:54



Tgt Ion:112 Resp: 132418
Ion Ratio Lower Upper
112 100
64 64.9 55.9 83.9
63 33.4 29.0 43.6





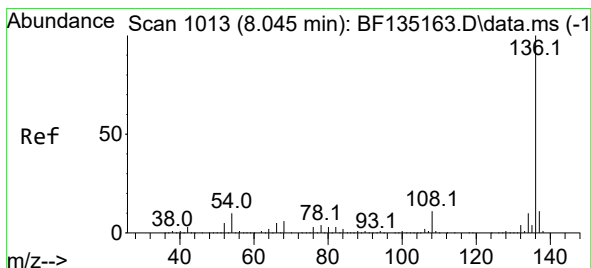
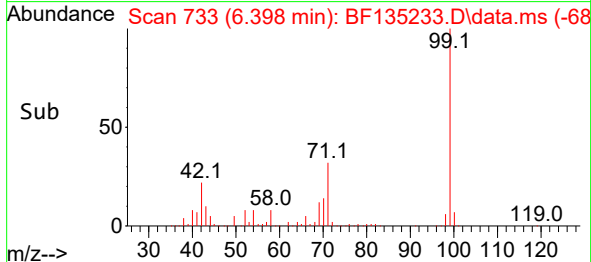
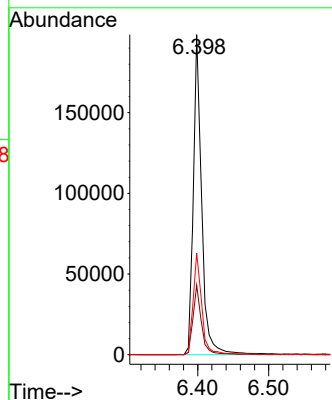
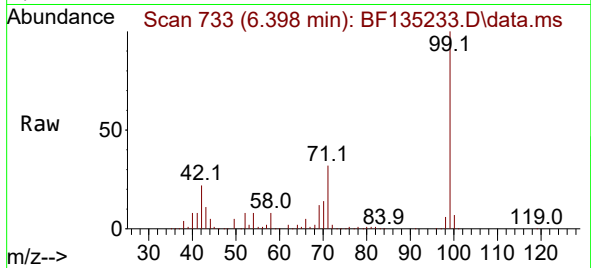
#7
Phenol-d6
Concen: 21.163 ng
RT: 6.398 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF135233.D
Acq: 13 Sep 2023 20:54

Instrument :
BNA_F
ClientSampleId :
SB-02-COMPDL

Tgt Ion: 99 Resp: 163658
Ion Ratio Lower Upper
99 100
42 21.7 17.9 26.9
71 31.8 27.0 40.6

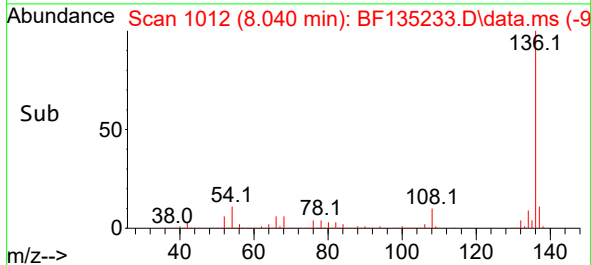
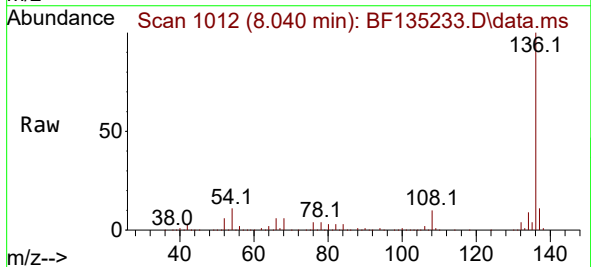
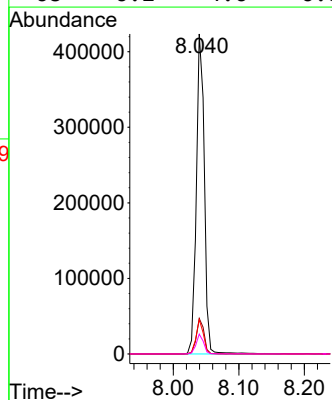
Manual Integrations
APPROVED

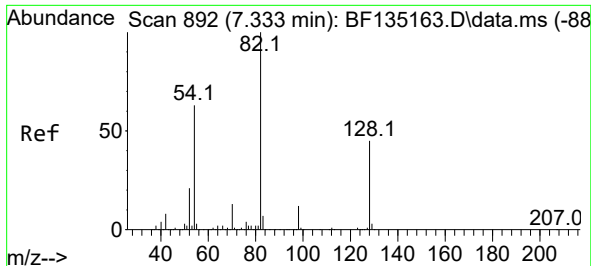
Reviewed By :Yogesh Patel 09/14/2023
Supervised By :mohammad ahmed 09/14/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.040 min Scan# 1012
Delta R.T. -0.006 min
Lab File: BF135233.D
Acq: 13 Sep 2023 20:54

Tgt Ion:136 Resp: 360321
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 10.7 7.7 11.5
68 6.2 4.6 6.8





#23

Nitrobenzene-d5

Concen: 13.530 ng

RT: 7.322 min Scan# 892

Delta R.T. -0.012 min

Lab File: BF135233.D

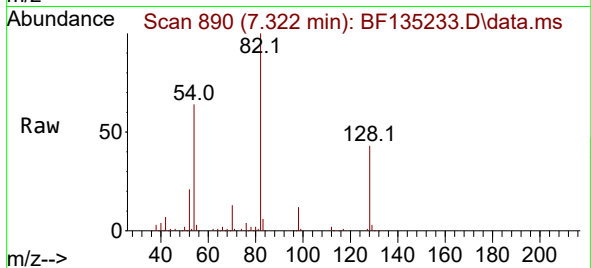
Acq: 13 Sep 2023 20:54

Instrument :

BNA_F

ClientSampleId :

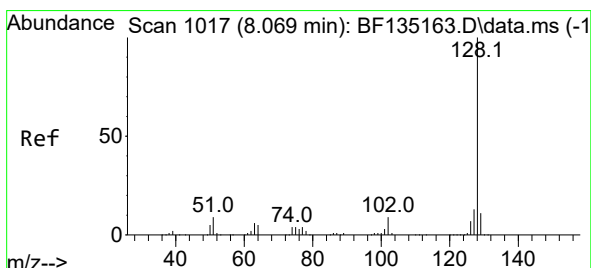
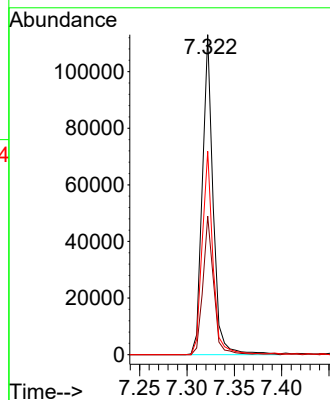
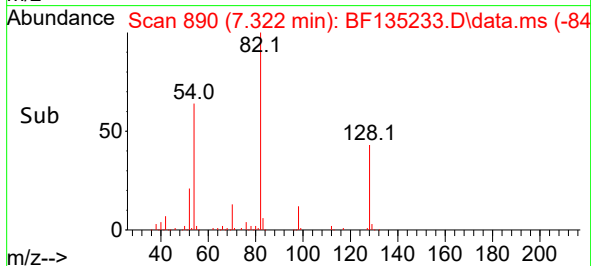
SB-02-COMPDL



Tgt Ion:	82	Resp:	89730
Ion Ratio	Lower	Upper	
82	100		
128	43.3	35.8	53.6
54	63.6	50.6	76.0

Manual Integrations
APPROVED

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



#31

Naphthalene

Concen: 7.633 ng

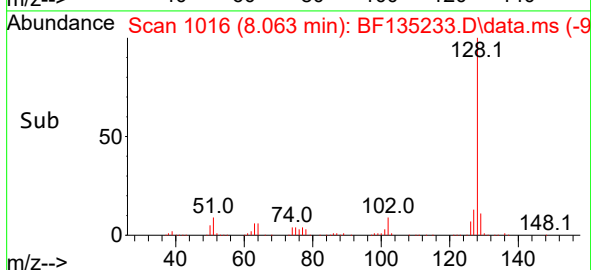
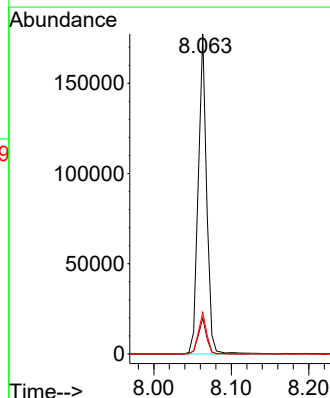
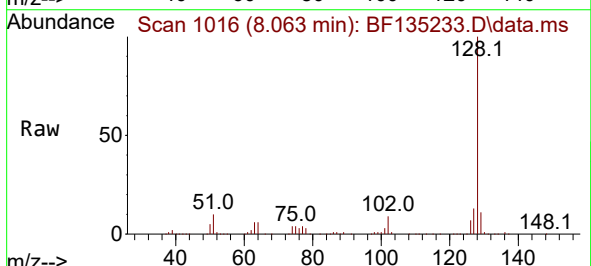
RT: 8.063 min Scan# 1016

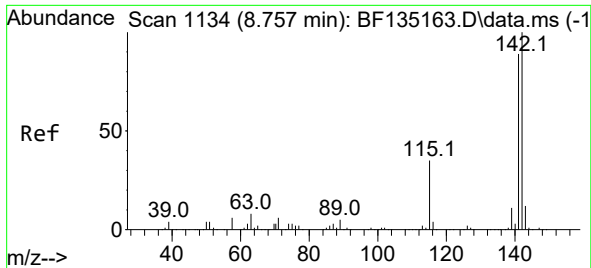
Delta R.T. -0.006 min

Lab File: BF135233.D

Acq: 13 Sep 2023 20:54

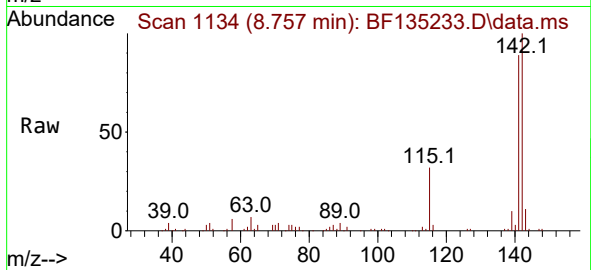
Tgt Ion:	128	Resp:	133638
Ion Ratio	Lower	Upper	
128	100		
129	11.2	8.7	13.1
127	13.0	10.7	16.1





#37
2-Methylnaphthalene
Concen: 3.777 ng
RT: 8.757 min Scan# 1134
Delta R.T. 0.000 min
Lab File: BF135233.D
Acq: 13 Sep 2023 20:54

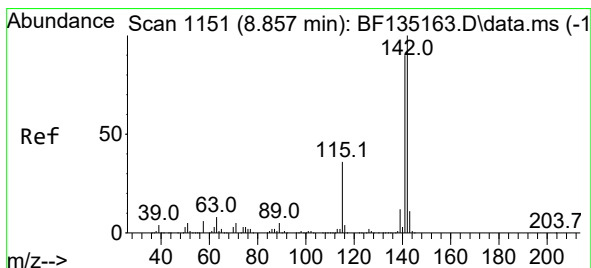
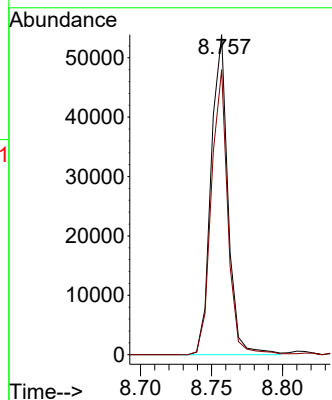
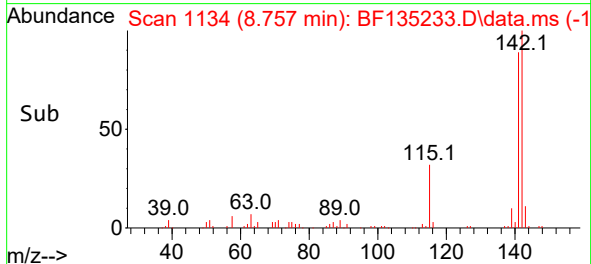
Instrument :
BNA_F
ClientSampleId :
SB-02-COMPDL



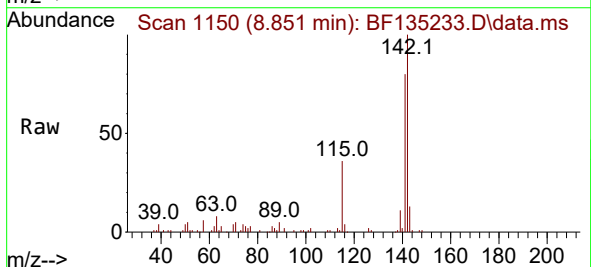
Tgt Ion:142 Resp: 4444
Ion Ratio Lower Upper
142 100
141 89.0 71.0 106.6

Manual Integrations
APPROVED

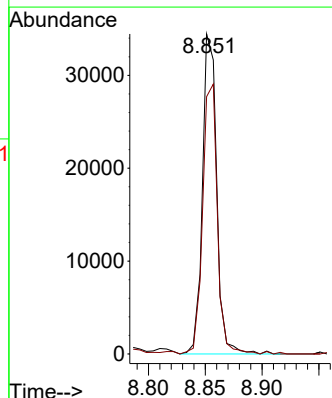
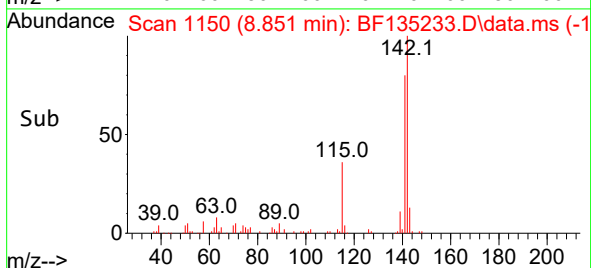
Reviewed By :Yogesh Patel 09/14/2023
Supervised By :mohammad ahmed 09/14/2023

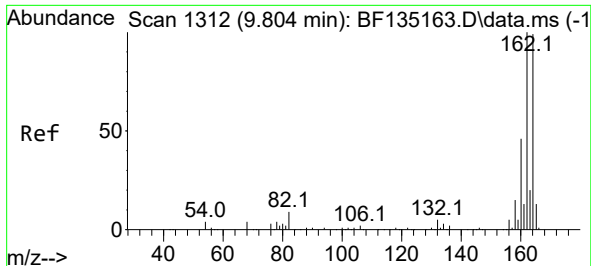


#38
1-Methylnaphthalene
Concen: 2.732 ng
RT: 8.851 min Scan# 1150
Delta R.T. -0.006 min
Lab File: BF135233.D
Acq: 13 Sep 2023 20:54



Tgt Ion:142 Resp: 30102
Ion Ratio Lower Upper
142 100
141 80.4 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: BF135233.D

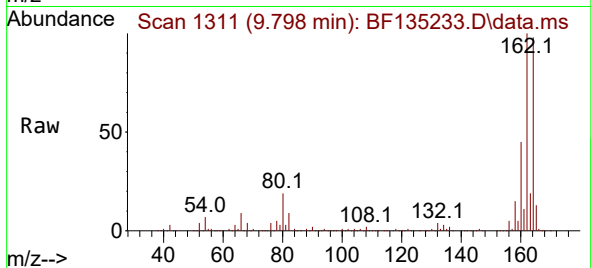
Acq: 13 Sep 2023 20:54

Instrument :

BNA_F

ClientSampleId :

SB-02-COMPDL



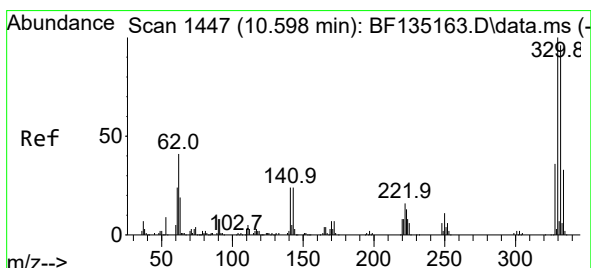
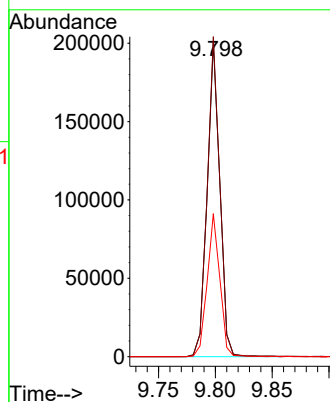
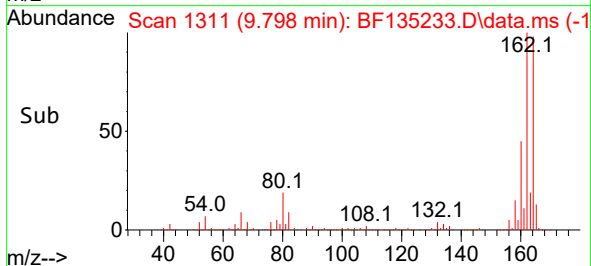
Tgt Ion:	164	Resp:	15498
Ion Ratio	Lower	Upper	
164	100		
162	101.9	81.0	121.4
160	45.5	37.0	55.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/14/2023

Supervised By :mohammad ahmed 09/14/2023



#42

2,4,6-Tribromophenol

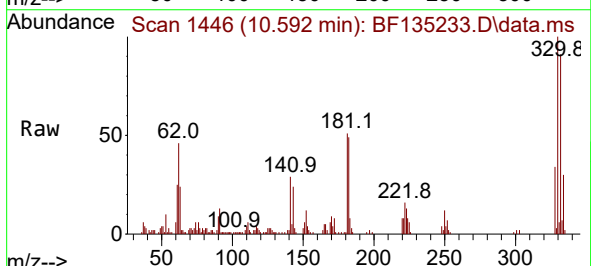
Concen: 16.552 ng

RT: 10.592 min Scan# 1446

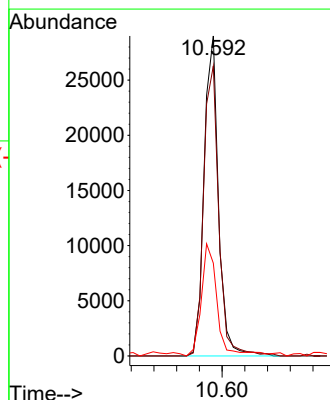
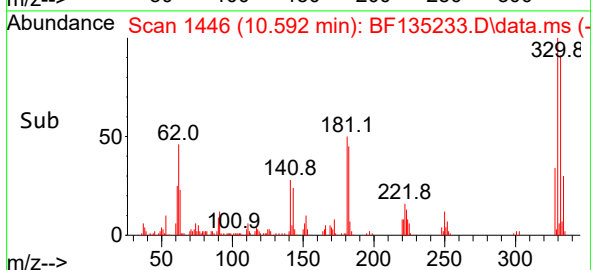
Delta R.T. -0.006 min

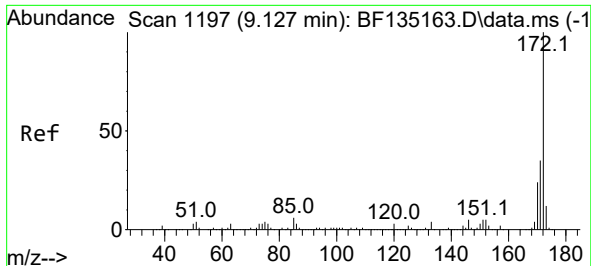
Lab File: BF135233.D

Acq: 13 Sep 2023 20:54



Tgt Ion:	330	Resp:	25493
Ion Ratio	Lower	Upper	
330	100		
332	95.1	77.3	115.9
141	39.0	25.8	38.8





#45

2-Fluorobiphenyl

Concen: 16.094 ng

RT: 9.116 min Scan# 1195

Delta R.T. -0.012 min

Lab File: BF135233.D

Acq: 13 Sep 2023 20:54

Instrument :

BNA_F

ClientSampleId :

SB-02-COMPDL

Tgt Ion:172 Resp: 16532

Ion Ratio Lower Upper

172 100

171 33.6 28.4 42.6

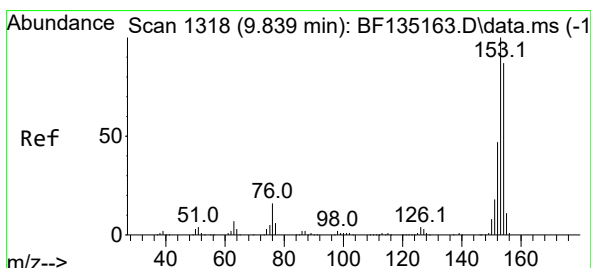
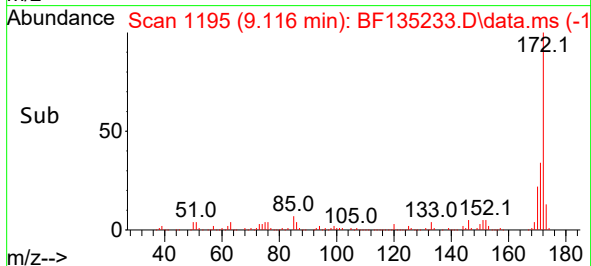
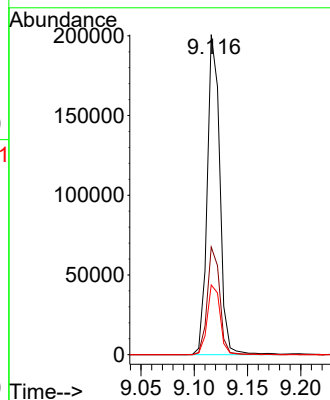
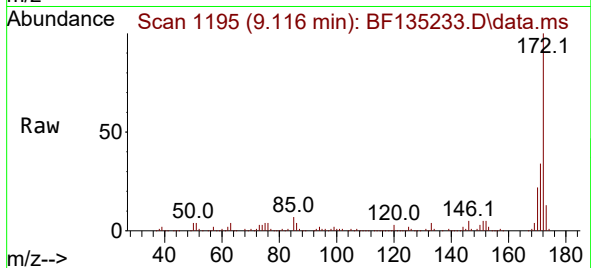
170 21.8 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/14/2023

Supervised By :mohammad ahmed 09/14/2023



#52

Acenaphthene

Concen: 7.935 ng

RT: 9.834 min Scan# 1317

Delta R.T. -0.005 min

Lab File: BF135233.D

Acq: 13 Sep 2023 20:54

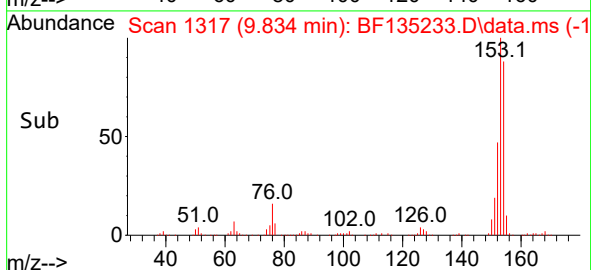
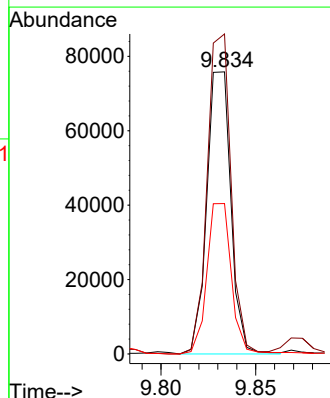
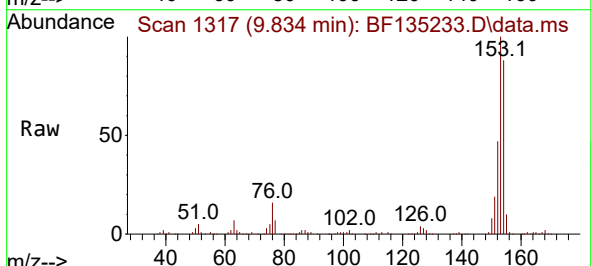
Tgt Ion:154 Resp: 67321

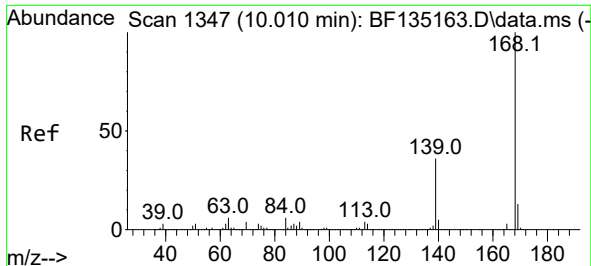
Ion Ratio Lower Upper

154 100

153 113.5 92.1 138.1

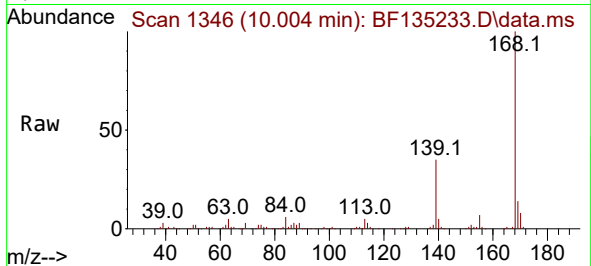
152 53.4 43.1 64.7





#55
Dibenzenofuran
Concen: 6.155 ng
RT: 10.004 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135233.D
Acq: 13 Sep 2023 20:54

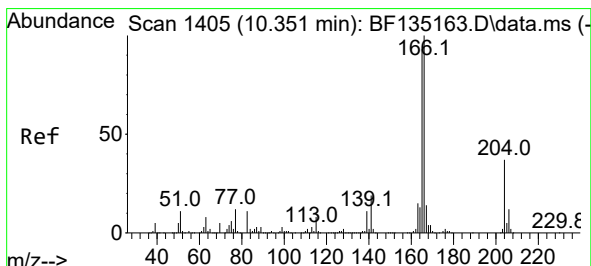
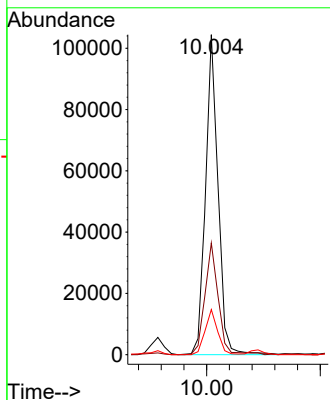
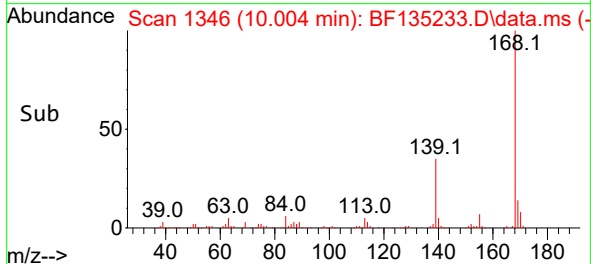
Instrument :
BNA_F
ClientSampleId :
SB-02-COMPDL



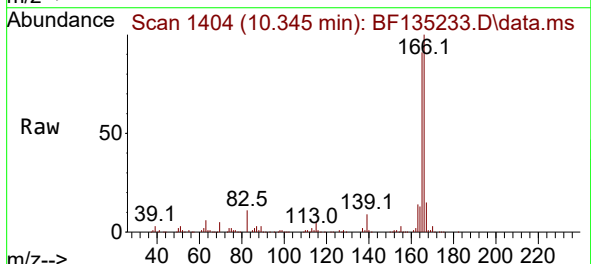
Tgt Ion:168 Resp: 7969
Ion Ratio Lower Upper
168 100
139 34.9 29.0 43.6
169 14.1 10.4 15.6

Manual Integrations
APPROVED

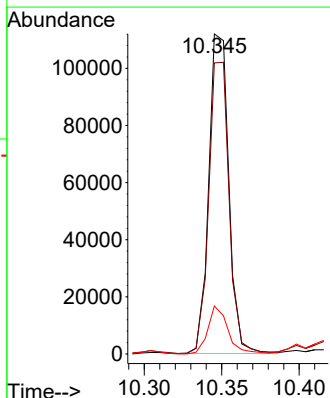
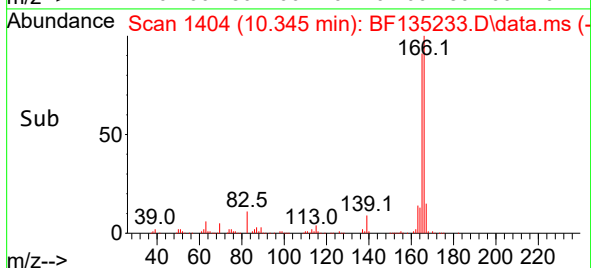
Reviewed By :Yogesh Patel 09/14/2023
Supervised By :mohammad ahmed 09/14/2023

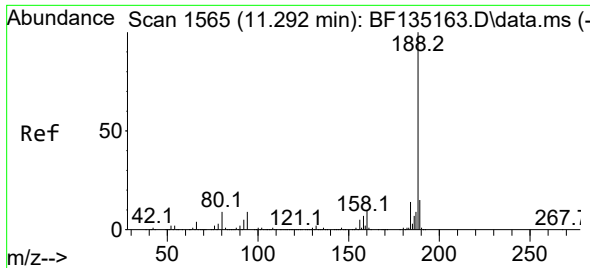


#58
Fluorene
Concen: 10.127 ng
RT: 10.345 min Scan# 1404
Delta R.T. -0.006 min
Lab File: BF135233.D
Acq: 13 Sep 2023 20:54



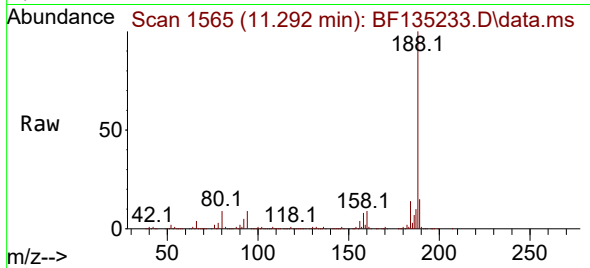
Tgt Ion:166 Resp: 100792
Ion Ratio Lower Upper
166 100
165 91.0 74.3 111.5
167 15.0 10.9 16.3





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.292 min Scan# 1565
Delta R.T. 0.000 min
Lab File: BF135233.D
Acq: 13 Sep 2023 20:54

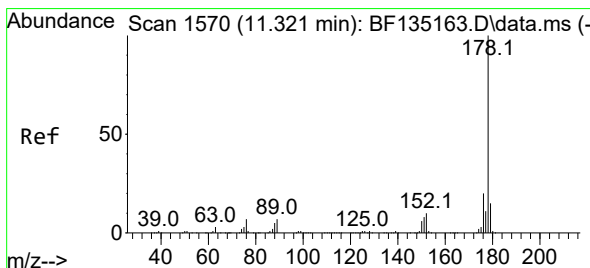
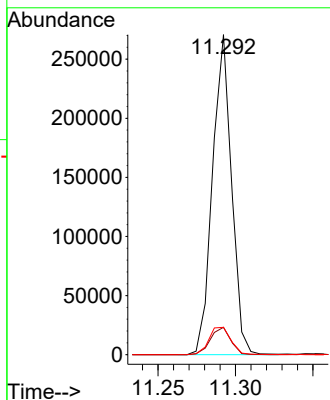
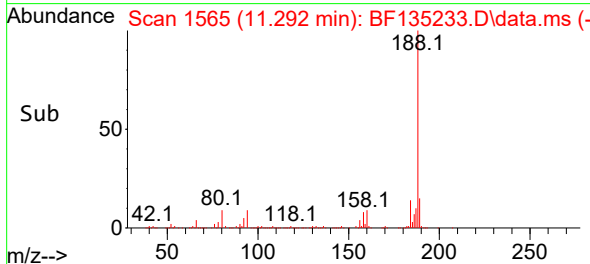
Instrument :
BNA_F
ClientSampleId :
SB-02-COMPDL



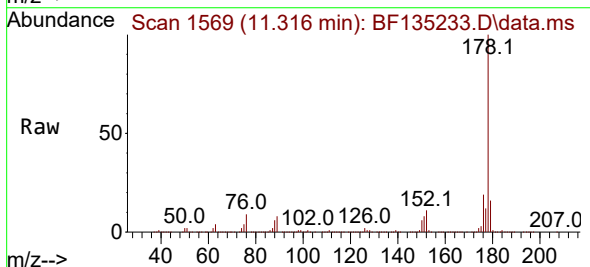
Tgt Ion:188 Resp: 23115
Ion Ratio Lower Upper
188 100
94 8.5 7.0 10.6
80 8.6 7.5 11.3

Manual Integrations
APPROVED

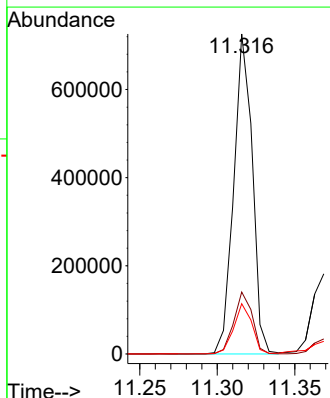
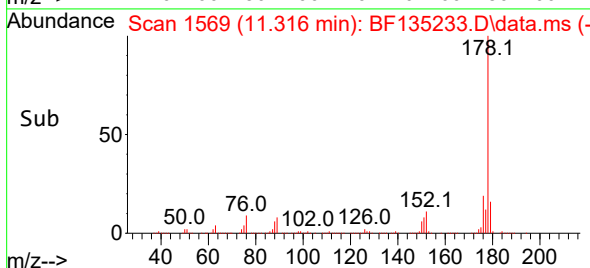
Reviewed By :Yogesh Patel 09/14/2023
Supervised By :mohammad ahmed 09/14/2023

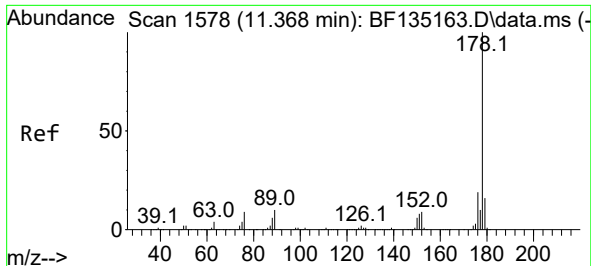


#71
Phenanthrene
Concen: 55.350 ng
RT: 11.316 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF135233.D
Acq: 13 Sep 2023 20:54



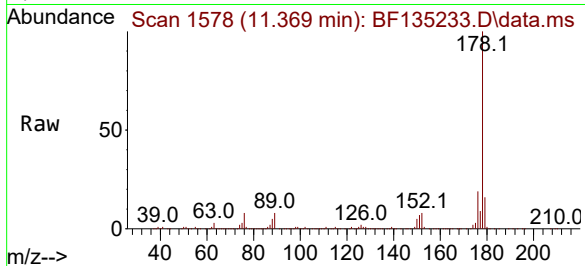
Tgt Ion:178 Resp: 605125
Ion Ratio Lower Upper
178 100
176 19.3 15.6 23.4
179 15.7 12.0 18.0





#72
 Anthracene
 Concen: 13.343 ng
 RT: 11.369 min Scan# 1578
 Delta R.T. 0.000 min
 Lab File: BF135233.D
 Acq: 13 Sep 2023 20:54

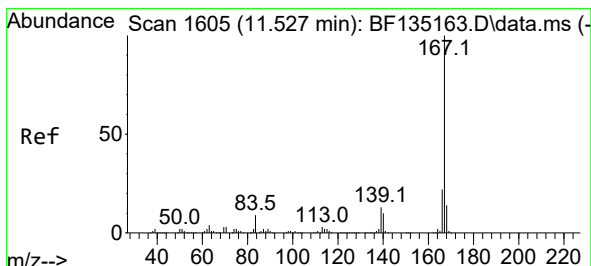
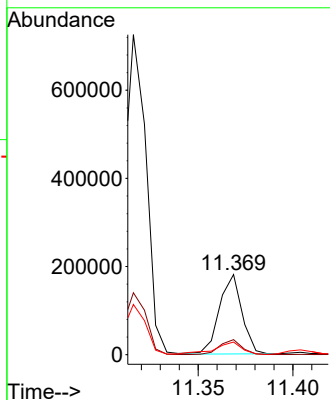
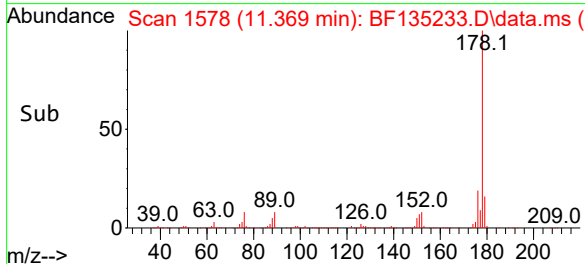
Instrument :
 BNA_F
 ClientSampleId :
 SB-02-COMPDL



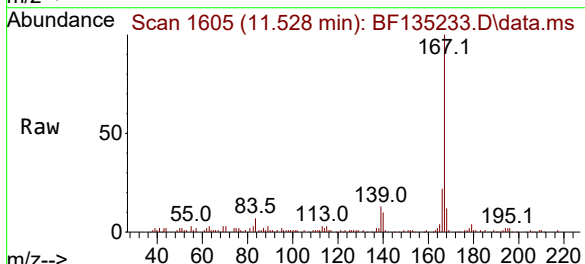
Tgt Ion:178 Resp: 149939
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.4 23.2
 179 15.8 12.6 19.0

Manual Integrations
 APPROVED

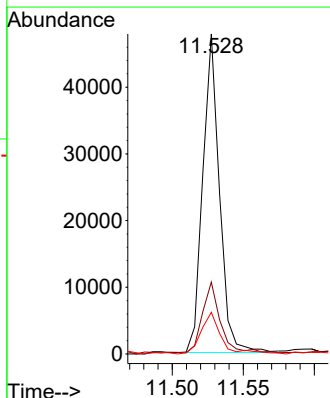
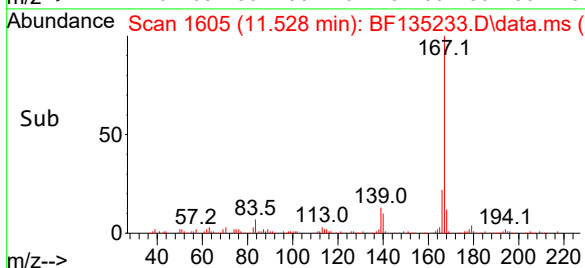
Reviewed By :Yogesh Patel 09/14/2023
 Supervised By :mohammad ahmed 09/14/2023

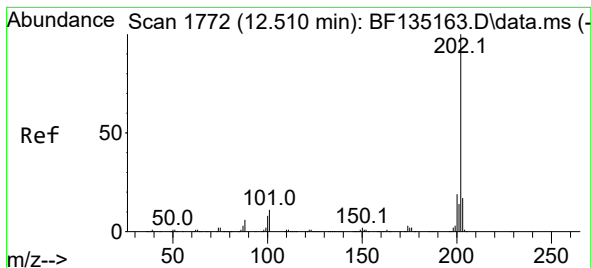


#73
 Carbazole
 Concen: 3.829 ng
 RT: 11.528 min Scan# 1605
 Delta R.T. 0.000 min
 Lab File: BF135233.D
 Acq: 13 Sep 2023 20:54



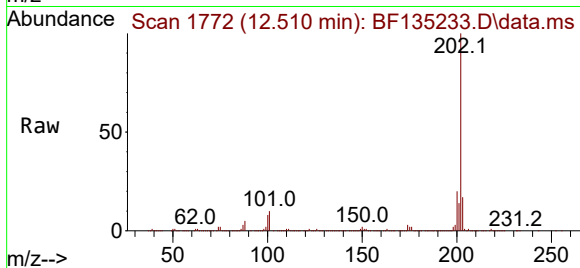
Tgt Ion:167 Resp: 39170
 Ion Ratio Lower Upper
 167 100
 166 22.4 17.4 26.0
 139 13.0 10.6 15.8





#75
Fluoranthene
Concen: 34.723 ng
RT: 12.510 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF135233.D
Acq: 13 Sep 2023 20:54

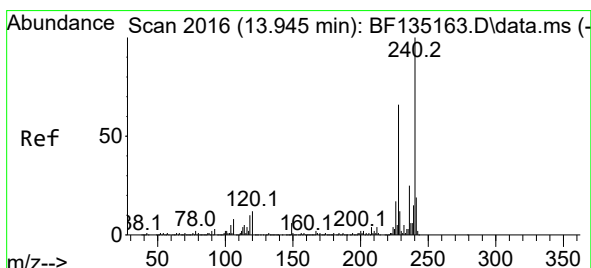
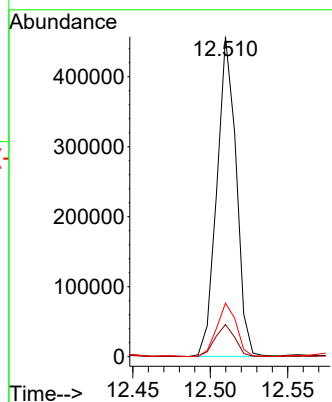
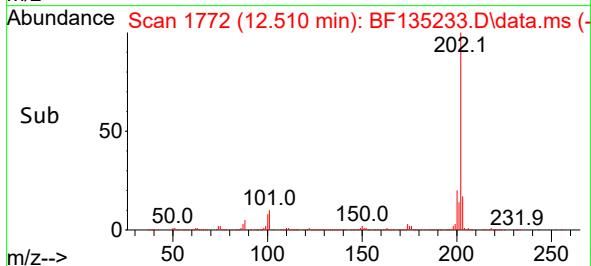
Instrument :
BNA_F
ClientSampleId :
SB-02-COMPDL



Tgt Ion:202 Resp: 39556
Ion Ratio Lower Upper
202 100
101 10.0 0.0 31.3
203 16.8 0.0 37.4

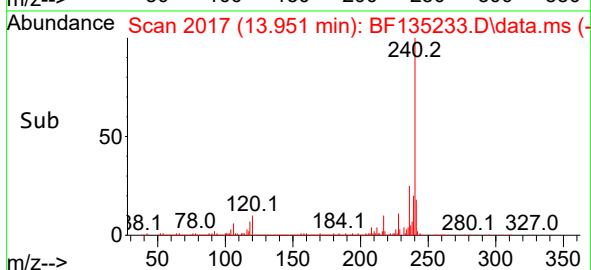
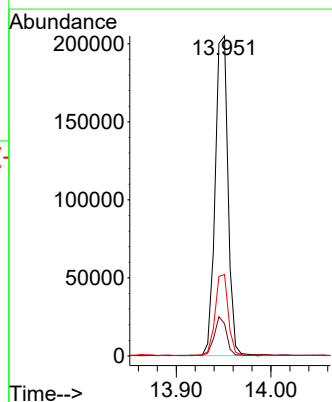
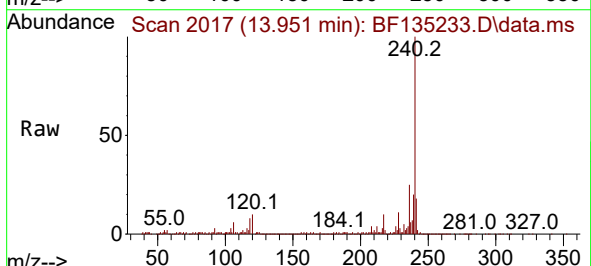
Manual Integrations
APPROVED

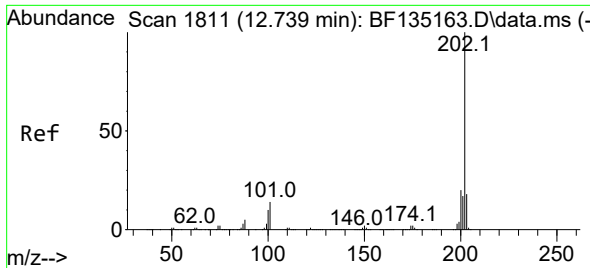
Reviewed By :Yogesh Patel 09/14/2023
Supervised By :mohammad ahmed 09/14/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.951 min Scan# 2017
Delta R.T. 0.006 min
Lab File: BF135233.D
Acq: 13 Sep 2023 20:54

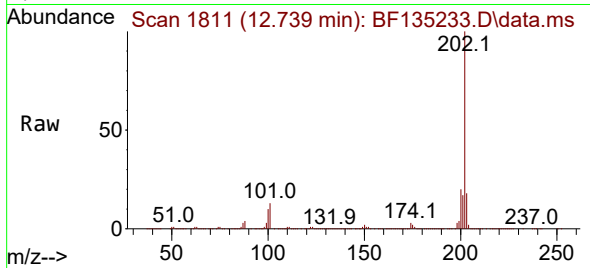
Tgt Ion:240 Resp: 193120
Ion Ratio Lower Upper
240 100
120 10.1 9.4 14.2
236 25.5 19.8 29.8





#78
Pyrene
Concen: 22.415 ng
RT: 12.739 min Scan# 1811
Delta R.T. 0.000 min
Lab File: BF135233.D
Acq: 13 Sep 2023 20:54

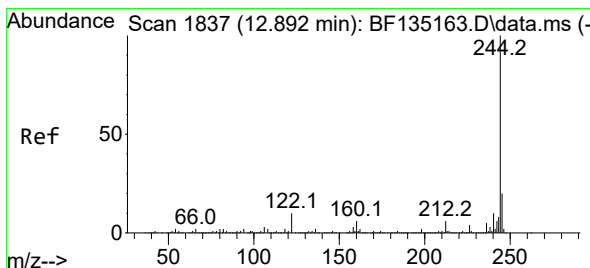
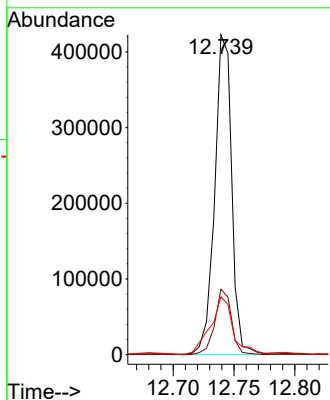
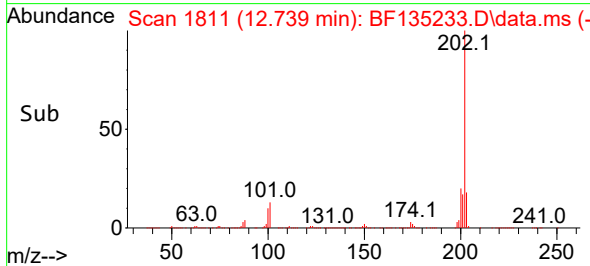
Instrument :
BNA_F
ClientSampleId :
SB-02-COMPDL



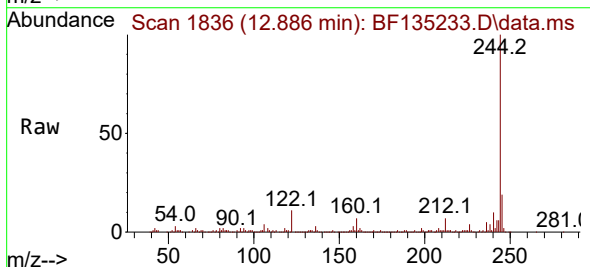
Tgt Ion:202 Resp: 41213
Ion Ratio Lower Upper
202 100
200 20.5 16.2 24.2
203 18.1 14.2 21.4

Manual Integrations
APPROVED

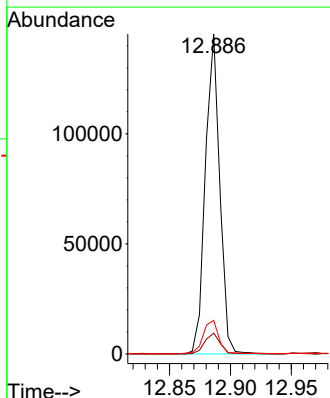
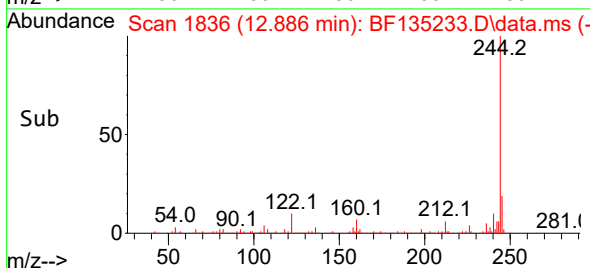
Reviewed By :Yogesh Patel 09/14/2023
Supervised By :mohammad ahmed 09/14/2023

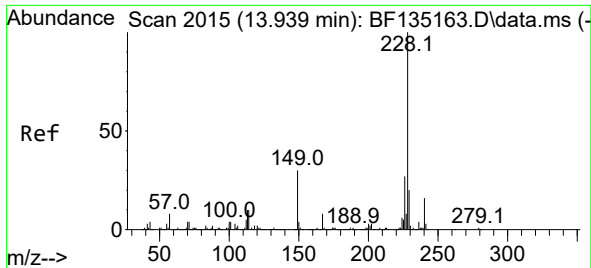


#79
Terphenyl-d14
Concen: 9.594 ng
RT: 12.886 min Scan# 1836
Delta R.T. -0.006 min
Lab File: BF135233.D
Acq: 13 Sep 2023 20:54



Tgt Ion:244 Resp: 119521
Ion Ratio Lower Upper
244 100
212 6.5 5.1 7.7
122 10.5 7.9 11.9





#81
Benzo(a)anthracene
Concen: 14.086 ng
RT: 13.939 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BF135233.D
Acq: 13 Sep 2023 20:54

Instrument :

BNA_F

ClientSampleId :

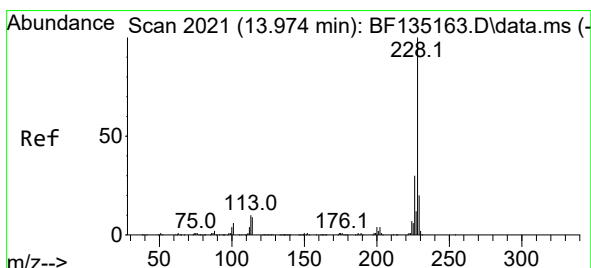
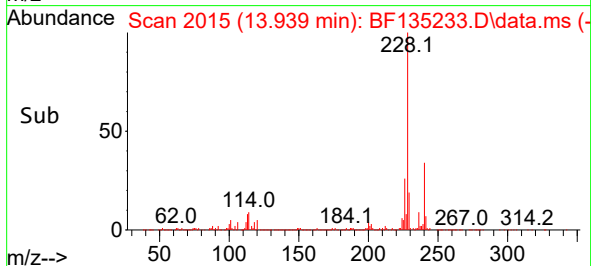
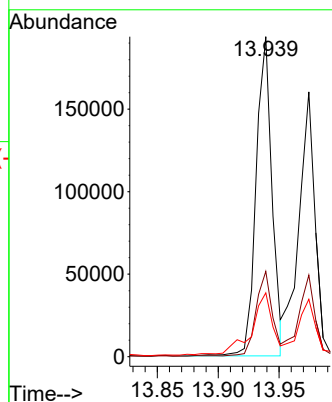
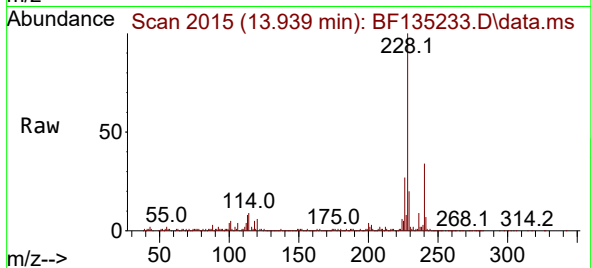
SB-02-COMPDL

Tgt Ion:228 Resp: 17565
Ion Ratio Lower Upper
228 100
226 26.6 21.7 32.5
229 20.0 15.8 23.8

Manual Integrations

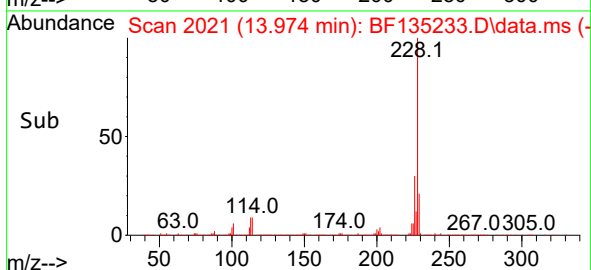
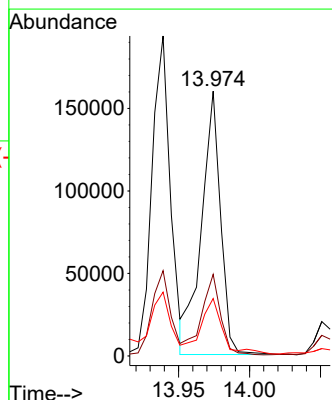
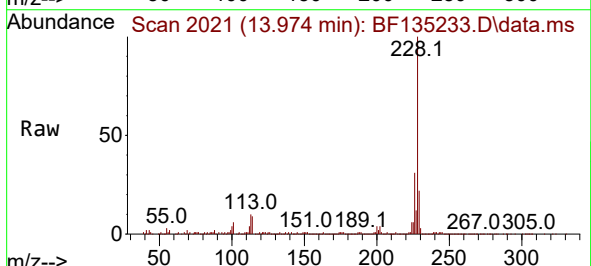
APPROVED

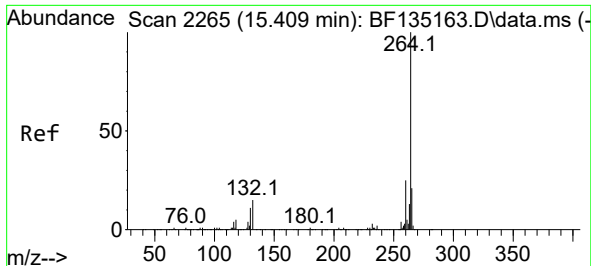
Reviewed By :Yogesh Patel 09/14/2023
Supervised By :mohammad ahmed 09/14/2023



#83
Chrysene
Concen: 12.059 ng m
RT: 13.974 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF135233.D
Acq: 13 Sep 2023 20:54

Tgt Ion:228 Resp: 149513
Ion Ratio Lower Upper
228 100
226 30.8 24.3 36.5
229 21.7 16.0 24.0





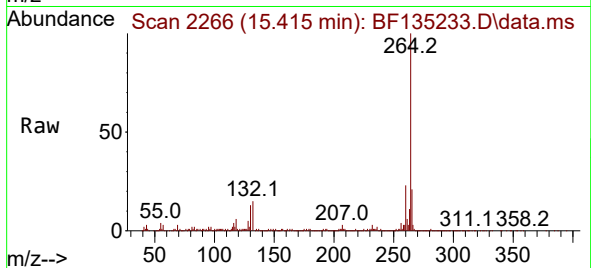
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF135233.D
Acq: 13 Sep 2023 20:54

Instrument :

BNA_F

ClientSampleId :

SB-02-COMPDL

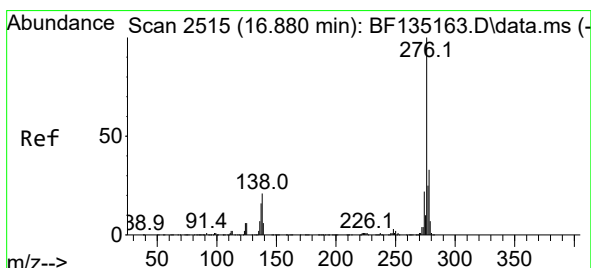
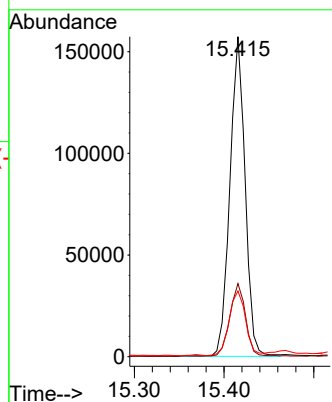
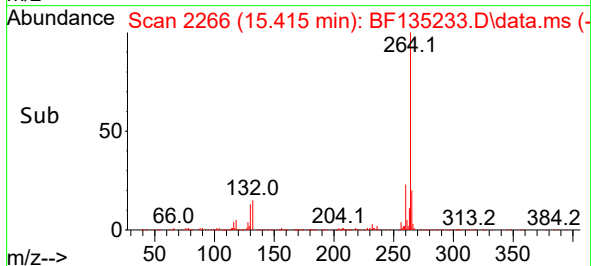


Tgt Ion:264 Resp: 18511
Ion Ratio Lower Upper
264 100
260 22.9 19.8 29.6
265 20.5 17.0 25.4

Manual Integrations

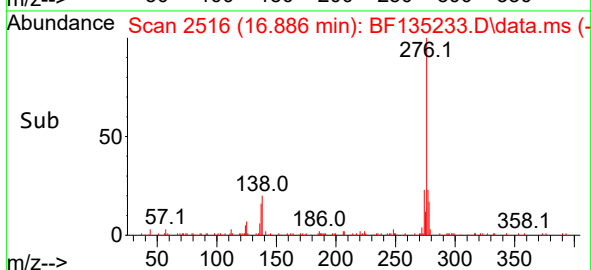
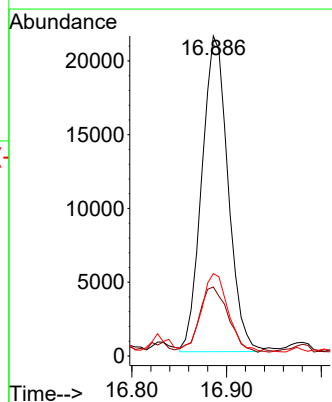
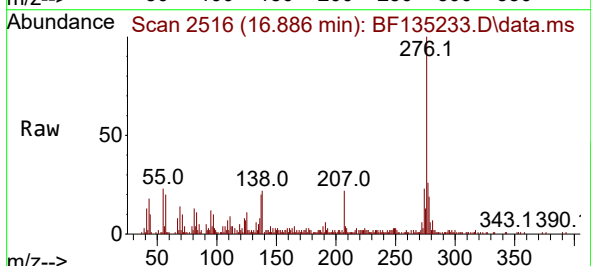
APPROVED

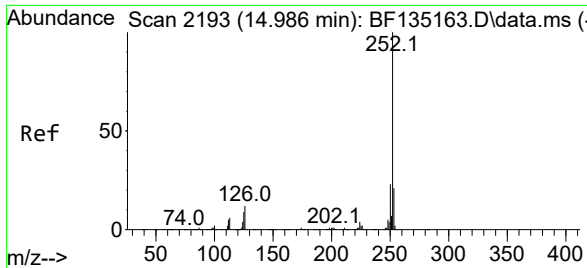
Reviewed By :Yogesh Patel 09/14/2023
Supervised By :mohammad ahmed 09/14/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 3.414 ng
RT: 16.886 min Scan# 2516
Delta R.T. 0.006 min
Lab File: BF135233.D
Acq: 13 Sep 2023 20:54

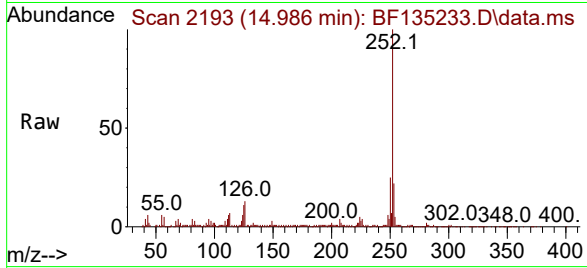
Tgt Ion:276 Resp: 41435
Ion Ratio Lower Upper
276 100
138 22.7 19.2 28.8
277 25.5 19.7 29.5





#88
Benzo(b)fluoranthene
Concen: 13.078 ng m
RT: 14.986 min Scan# 2193
Delta R.T. 0.000 min
Lab File: BF135233.D
Acq: 13 Sep 2023 20:54

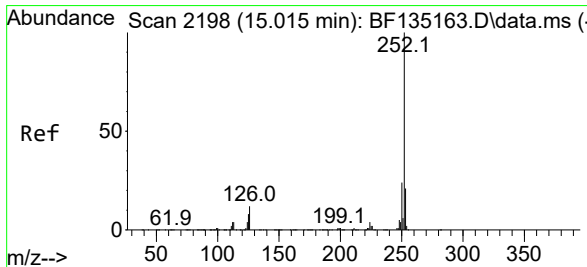
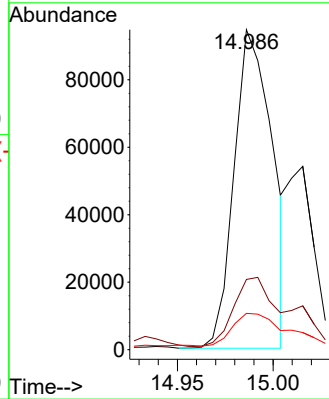
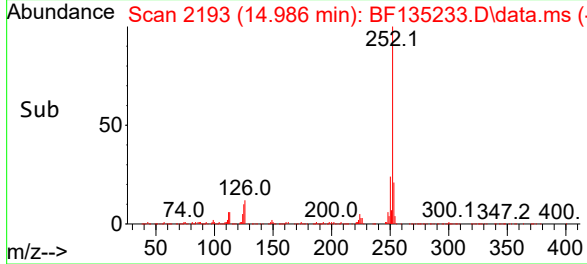
Instrument :
BNA_F
ClientSampleId :
SB-02-COMPDL



Tgt Ion:252 Resp: 131060
Ion Ratio Lower Upper
252 100
253 22.0 17.2 25.8
125 11.3 7.1 10.7

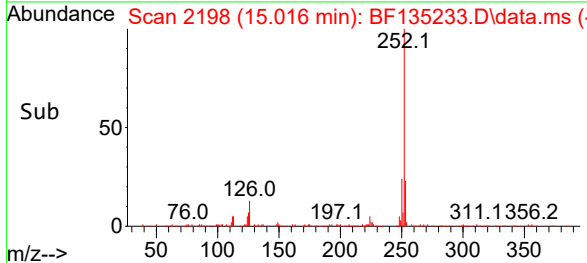
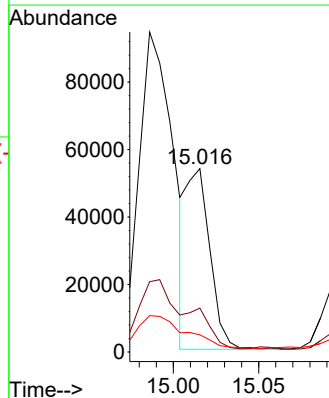
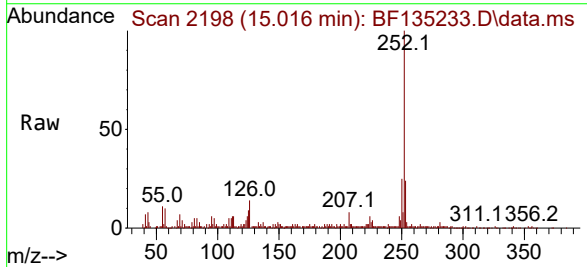
Manual Integrations
APPROVED

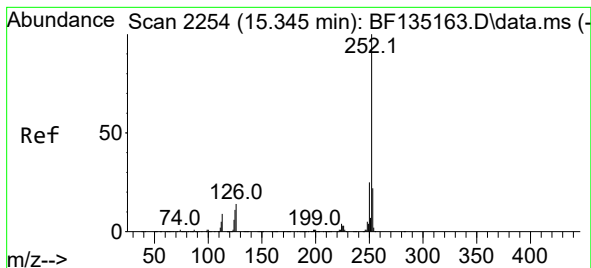
Reviewed By :Yogesh Patel 09/14/2023
Supervised By :mohammad ahmed 09/14/2023



#89
Benzo(k)fluoranthene
Concen: 5.146 ng m
RT: 15.016 min Scan# 2198
Delta R.T. 0.000 min
Lab File: BF135233.D
Acq: 13 Sep 2023 20:54

Tgt Ion:252 Resp: 50940
Ion Ratio Lower Upper
252 100
253 23.9 17.4 26.0
125 9.3 7.2 10.8





#90

Benzo(a)pyrene

Concen: 10.968 ng

RT: 15.351 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF135233.D

Acq: 13 Sep 2023 20:54

Instrument :

BNA_F

ClientSampleId :

SB-02-COMPDL

Tgt Ion:252 Resp: 104814

Ion Ratio Lower Upper

252 100

253 23.7 17.5 26.3

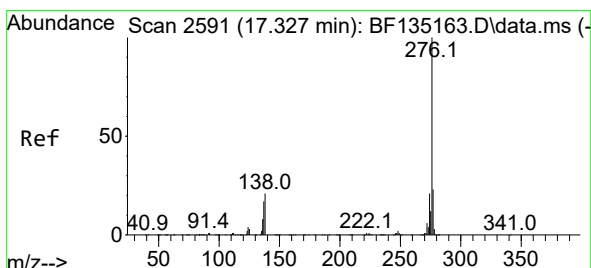
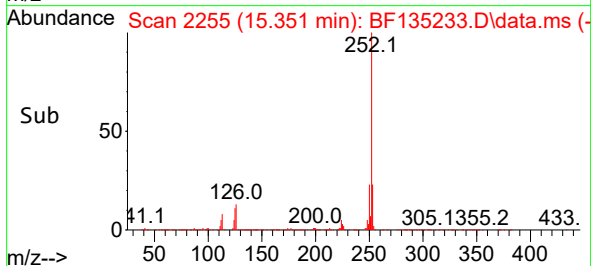
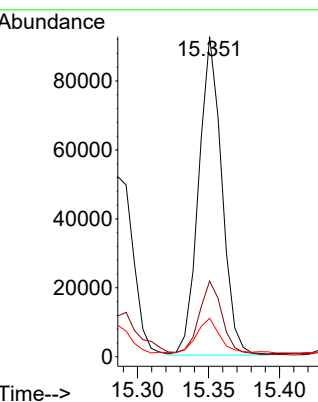
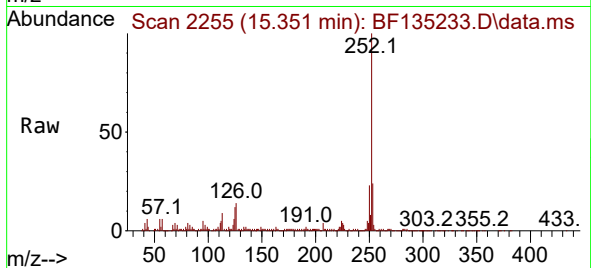
125 12.0 9.2 13.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/14/2023

Supervised By :mohammad ahmed 09/14/2023



#92

Benzo(g,h,i)perylene

Concen: 3.658 ng

RT: 17.333 min Scan# 2592

Delta R.T. 0.006 min

Lab File: BF135233.D

Acq: 13 Sep 2023 20:54

Tgt Ion:276 Resp: 37941

Ion Ratio Lower Upper

276 100

277 24.0 18.8 28.2

138 22.0 16.9 25.3

