

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060623\
 Data File : BF133600.D
 Acq On : 06 Jun 2023 19:49
 Operator : CG\JU
 Sample : 03002-06
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB03

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/07/2023
 Supervised By :mohammad ahmed 06/08/2023

Quant Time: Jun 07 04:01:17 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 06 14:05:12 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.833	152	125303	20.000	ng	0.00
21) Naphthalene-d8	8.116	136	457908	20.000	ng	0.00
39) Acenaphthene-d10	9.874	164	191179	20.000	ng	0.00
64) Phenanthrene-d10	11.368	188	319570	20.000	ng	0.00
76) Chrysene-d12	14.015	240	151658	20.000	ng	0.00
86) Perylene-d12	15.480	264	133677	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.445	112	605330	80.602	ng	0.00
7) Phenol-d6	6.463	99	724286	78.344	ng	0.00
23) Nitrobenzene-d5	7.398	82	443547	64.675	ng	0.00
42) 2,4,6-Tribromophenol	10.663	330	147441	77.368	ng	0.00
45) 2-Fluorobiphenyl	9.198	172	768529	62.045	ng	0.00
79) Terphenyl-d14	12.957	244	582328	68.270	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.139	128	129272	5.823	ng	99
37) 2-Methylnaphthalene	8.833	142	37263	2.458	ng	100
38) 1-Methylnaphthalene	8.927	142	29517	2.089	ng	97
49) Acenaphthylene	9.733	152	194300	10.114	ng	99
52) Acenaphthene	9.910	154	61303	5.268	ng	97
55) Dibenzofuran	10.080	168	101623	5.870	ng	96
58) Fluorene	10.421	166	107567	8.480	ng	99
71) Phenanthrene	11.392	178	1176950	72.714	ng	99
72) Anthracene	11.439	178	274146	16.457	ng	99
73) Carbazole	11.592	167	186707	11.851	ng	97
75) Fluoranthene	12.586	202	1601340	89.567	ng	99
78) Pyrene	12.815	202	1358278	105.249	ng	99
81) Benzo(a)anthracene	14.004	228	596725	59.064	ng	95
83) Chrysene	14.039	228	589564m	57.806	ng	
87) Indeno(1,2,3-cd)pyrene	16.939	276	256048m	30.070	ng	
88) Benzo(b)fluoranthene	15.056	252	607907m	69.837	ng	
89) Benzo(k)fluoranthene	15.080	252	236849m	27.905	ng	
90) Benzo(a)pyrene	15.415	252	403888	50.991	ng	97
91) Dibenzo(a,h)anthracene	16.950	278	61159m	8.859	ng	
92) Benzo(g,h,i)perylene	17.380	276	221617	31.836	ng	98

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

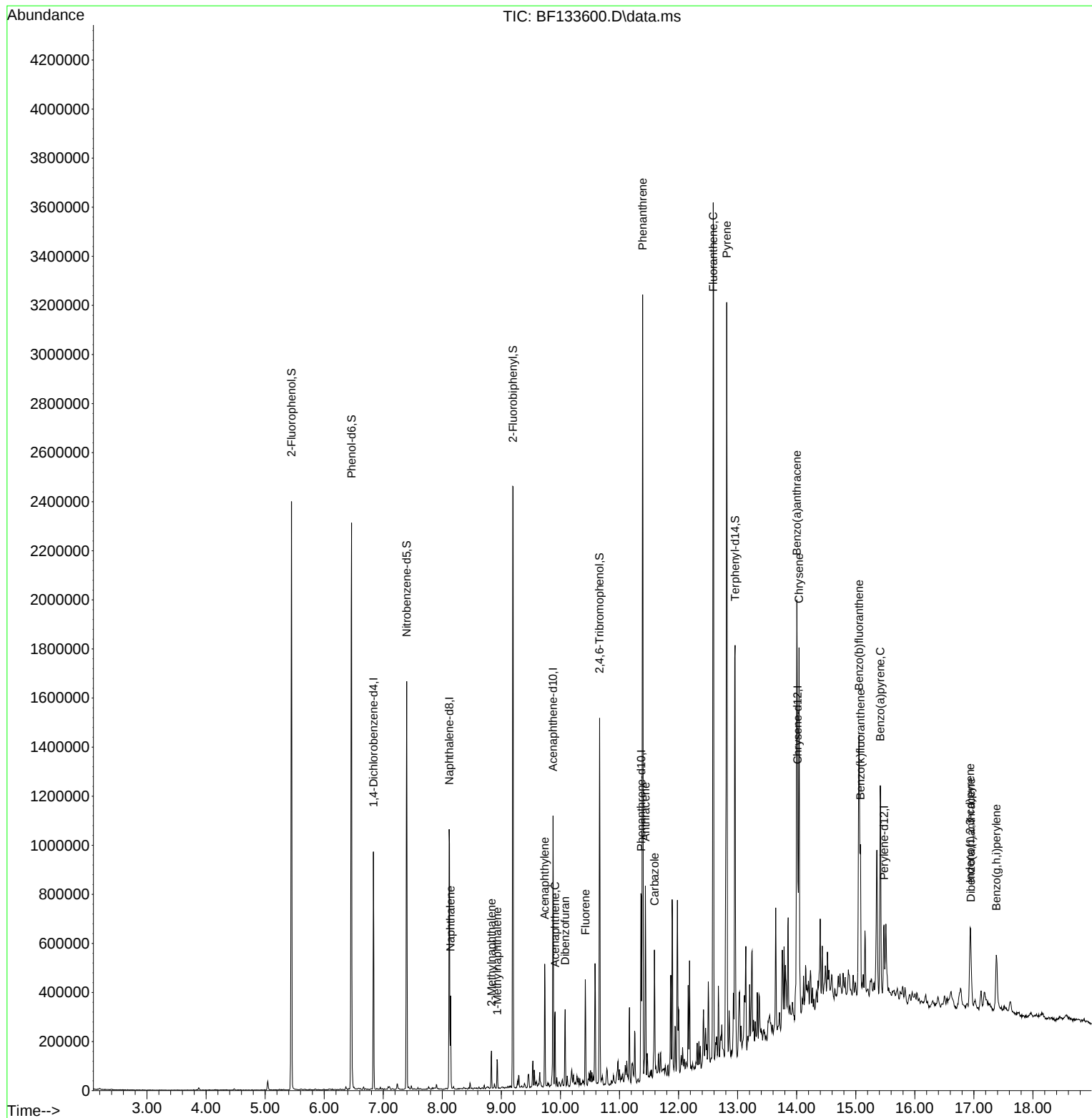
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060623\
Data File : BF133600.D
Acq On : 06 Jun 2023 19:49
Operator : CG\JU
Sample : 03002-06
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB03

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/07/2023
Supervised By :mohammad ahmed 06/08/2023

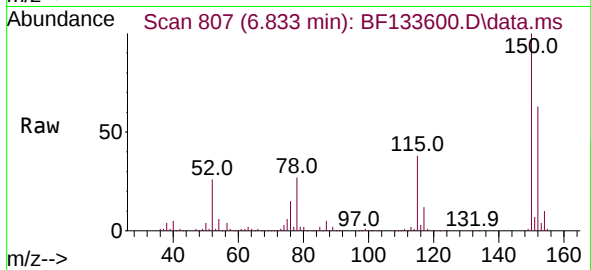
Quant Time: Jun 07 04:01:17 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 06 14:05:12 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.833 min Scan# 808
Delta R.T. -0.001 min
Lab File: BF133600.D
Acq: 06 Jun 2023 19:49

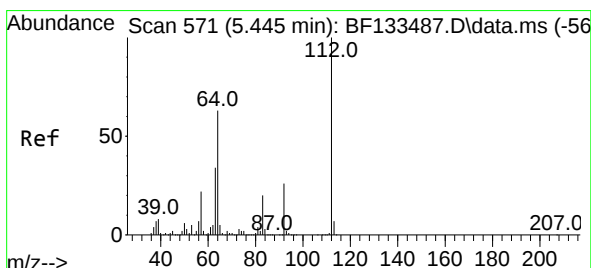
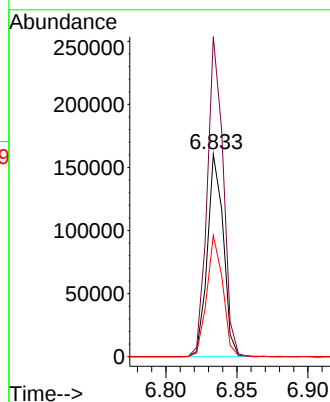
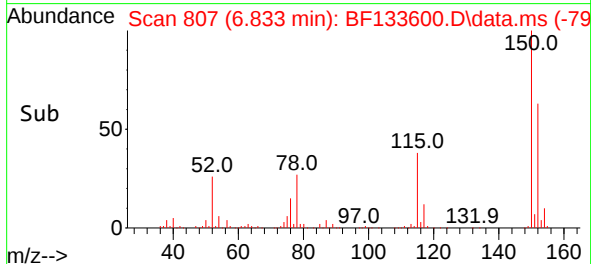
Instrument :
BNA_F
ClientSampleId :
SB03



Tgt Ion:152 Resp: 125300
Ion Ratio Lower Upper
152 100
150 158.1 124.9 187.3
115 60.0 48.1 72.1

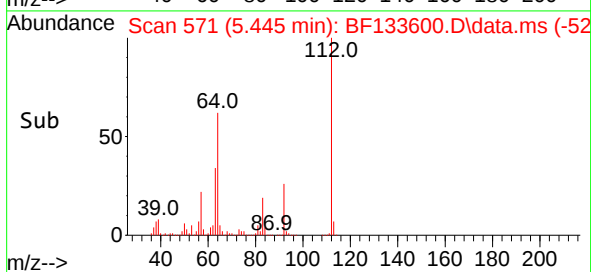
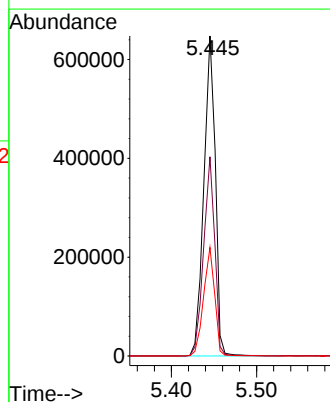
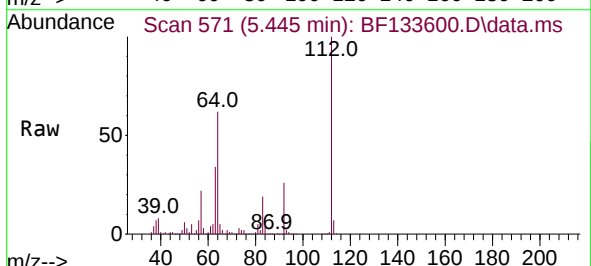
Manual Integrations
APPROVED

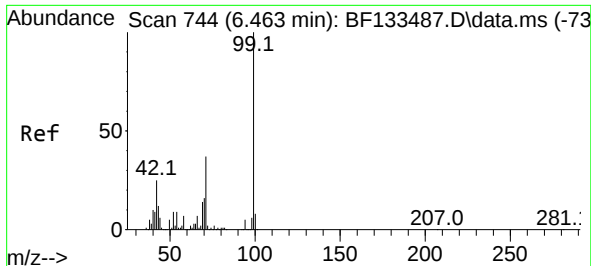
Reviewed By :Yogesh Patel 06/07/2023
Supervised By :mohammad ahmed 06/08/2023



#5
2-Fluorophenol
Concen: 80.602 ng
RT: 5.445 min Scan# 571
Delta R.T. -0.000 min
Lab File: BF133600.D
Acq: 06 Jun 2023 19:49

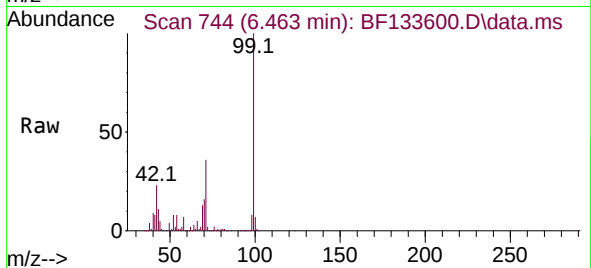
Tgt Ion:112 Resp: 605330
Ion Ratio Lower Upper
112 100
64 62.2 50.1 75.1
63 33.9 27.5 41.3





#7
Phenol-d6
Concen: 78.344 ng
RT: 6.463 min Scan# 744
Delta R.T. -0.000 min
Lab File: BF133600.D
Acq: 06 Jun 2023 19:49

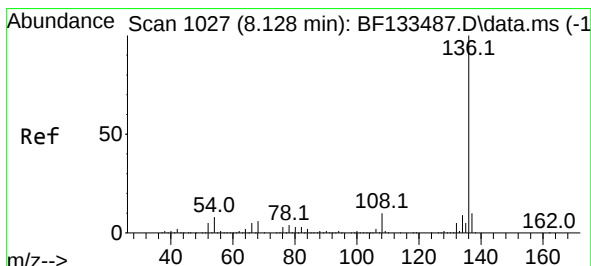
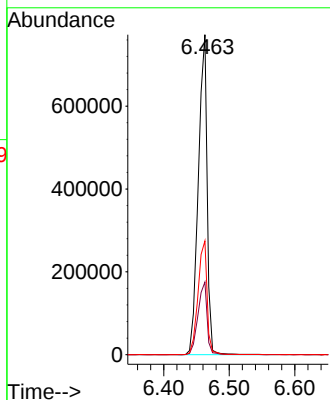
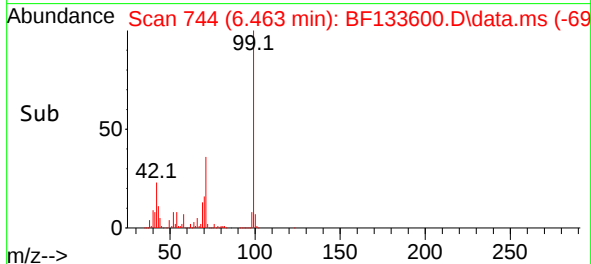
Instrument :
BNA_F
ClientSampleId :
SB03



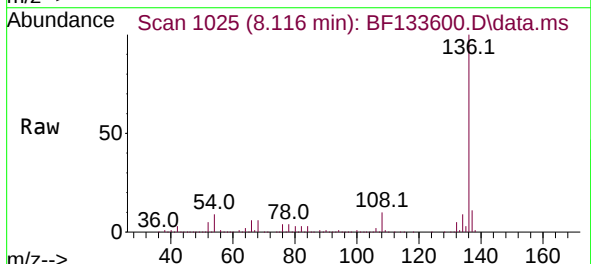
Tgt Ion: 99 Resp: 724280
Ion Ratio Lower Upper
99 100
42 22.7 19.7 29.5
71 35.6 29.8 44.8

Manual Integrations
APPROVED

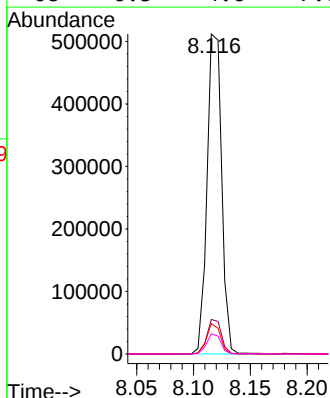
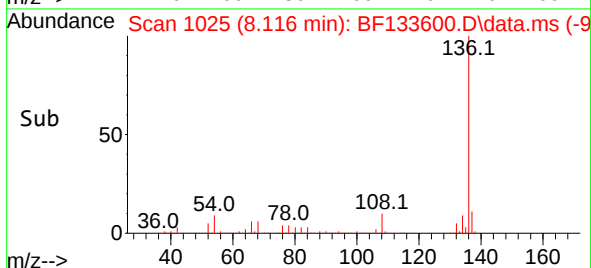
Reviewed By :Yogesh Patel 06/07/2023
Supervised By :mohammad ahmed 06/08/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BF133600.D
Acq: 06 Jun 2023 19:49



Tgt Ion:136 Resp: 457908
Ion Ratio Lower Upper
136 100
137 10.8 8.2 12.4
54 9.5 6.6 10.0
68 6.3 4.6 7.0





#23

Nitrobenzene-d5

Concen: 64.675 ng

RT: 7.398 min Scan# 905

Delta R.T. -0.006 min

Lab File: BF133600.D

Acq: 06 Jun 2023 19:49

Instrument :

BNA_F

ClientSampleId :

SB03

Tgt Ion: 82 Resp: 44354

Ion Ratio Lower Upper

82 100

128 43.7 34.2 51.4

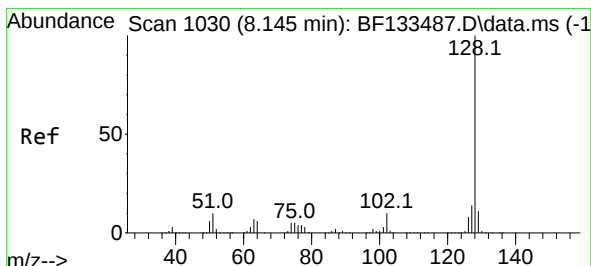
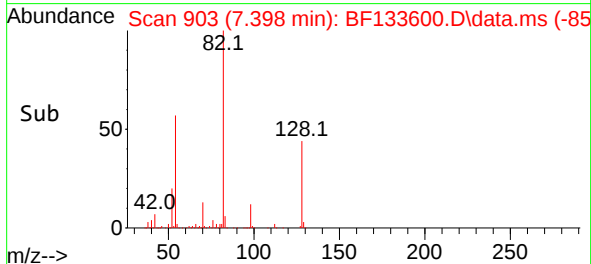
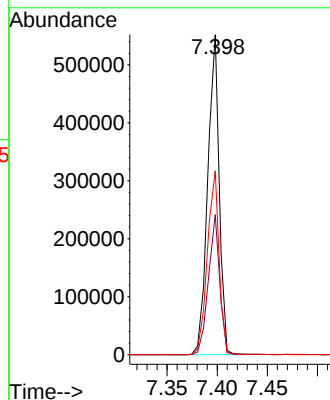
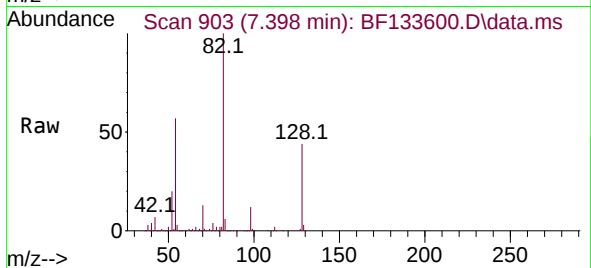
54 57.5 48.2 72.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/07/2023

Supervised By :mohammad ahmed 06/08/2023



#31

Naphthalene

Concen: 5.823 ng

RT: 8.139 min Scan# 1029

Delta R.T. -0.006 min

Lab File: BF133600.D

Acq: 06 Jun 2023 19:49

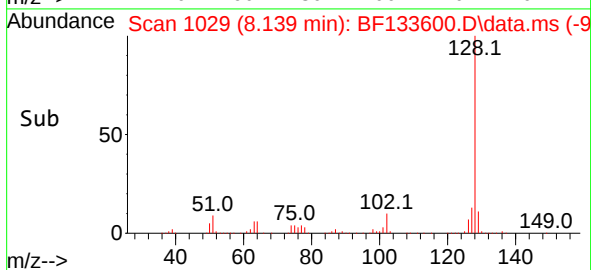
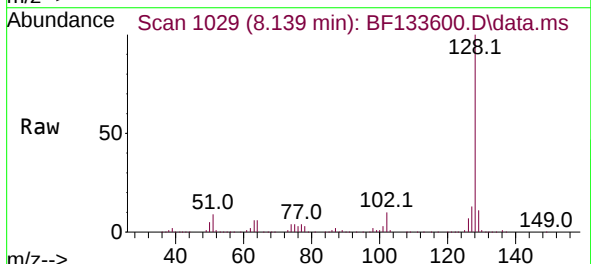
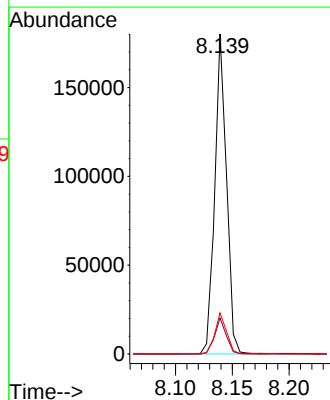
Tgt Ion:128 Resp: 129272

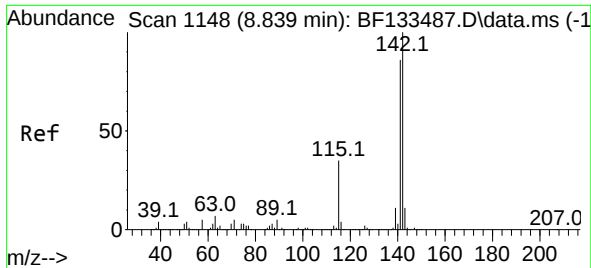
Ion Ratio Lower Upper

128 100

129 11.2 9.2 13.8

127 12.9 10.9 16.3





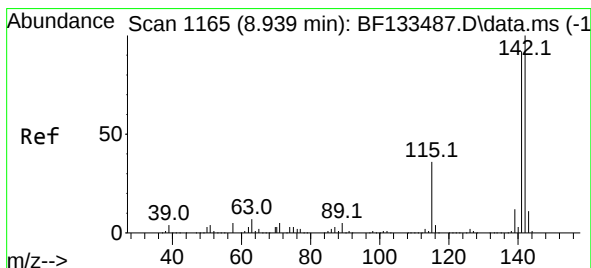
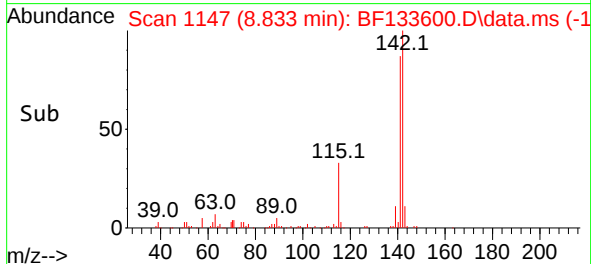
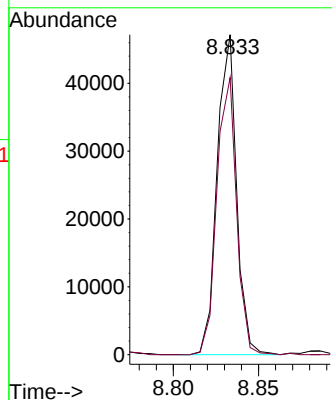
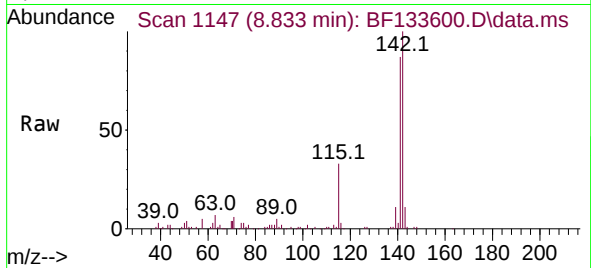
#37
2-Methylnaphthalene
Concen: 2.458 ng
RT: 8.833 min Scan# 1148
Delta R.T. -0.000 min
Lab File: BF133600.D
Acq: 06 Jun 2023 19:49

Instrument :
BNA_F
ClientSampleId :
SB03

Tgt Ion:142 Resp: 3726
Ion Ratio Lower Upper
142 100
141 86.6 69.2 103.8

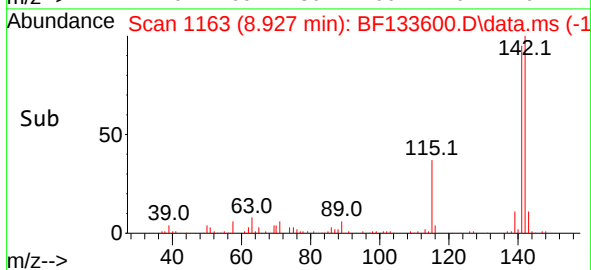
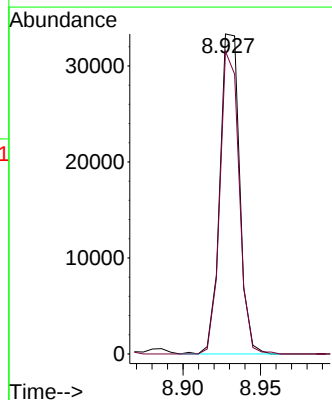
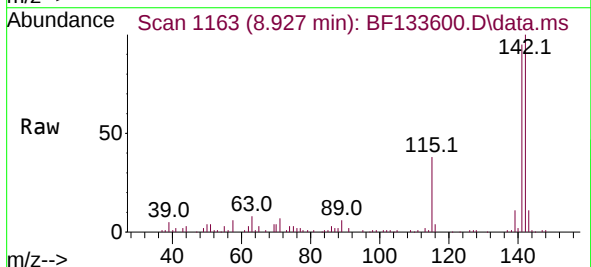
Manual Integrations
APPROVED

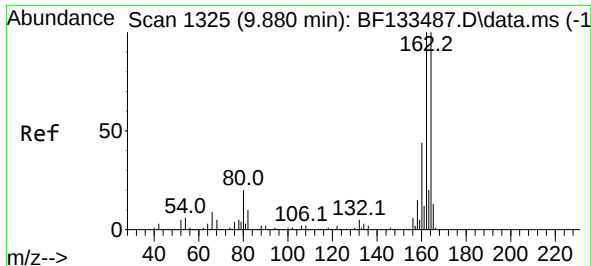
Reviewed By :Yogesh Patel 06/07/2023
Supervised By :mohammad ahmed 06/08/2023



#38
1-Methylnaphthalene
Concen: 2.089 ng
RT: 8.927 min Scan# 1163
Delta R.T. -0.006 min
Lab File: BF133600.D
Acq: 06 Jun 2023 19:49

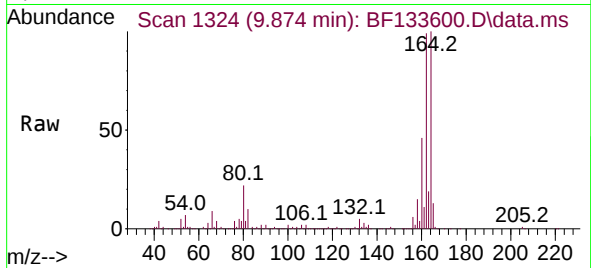
Tgt Ion:142 Resp: 29517
Ion Ratio Lower Upper
142 100
141 94.6 73.6 110.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.874 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF133600.D
Acq: 06 Jun 2023 19:49

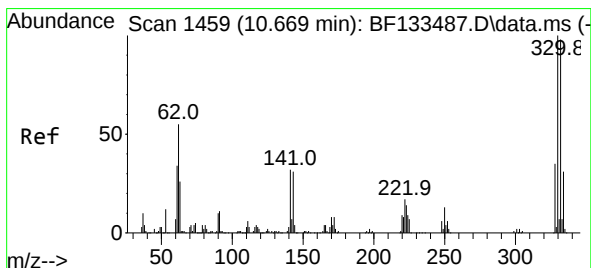
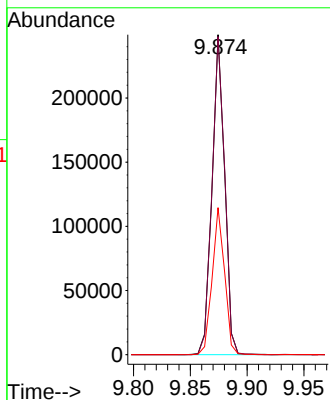
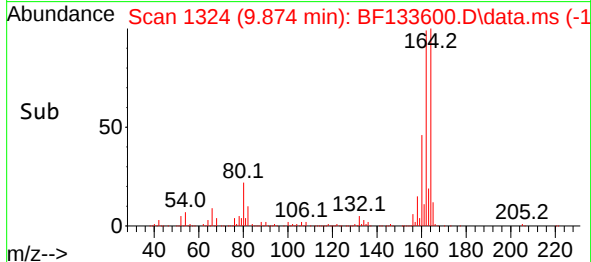
Instrument :
BNA_F
ClientSampleId :
SB03



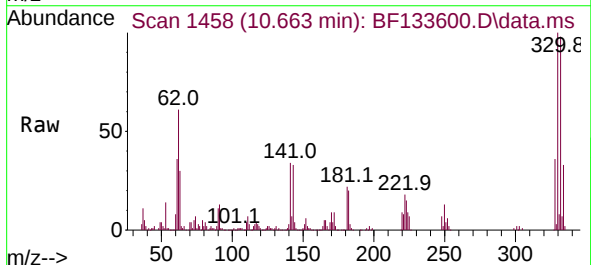
Tgt Ion:164 Resp: 191179
Ion Ratio Lower Upper
164 100
162 99.4 79.7 119.5
160 45.9 35.4 53.0

Manual Integrations
APPROVED

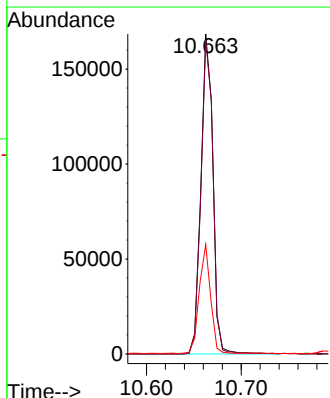
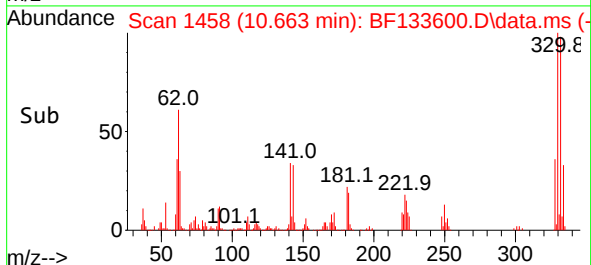
Reviewed By :Yogesh Patel 06/07/2023
Supervised By :mohammad ahmed 06/08/2023

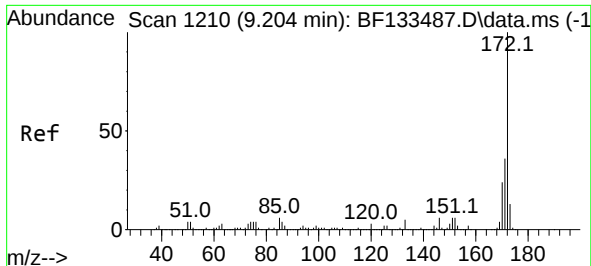


#42
2,4,6-Tribromophenol
Concen: 77.368 ng
RT: 10.663 min Scan# 1458
Delta R.T. -0.006 min
Lab File: BF133600.D
Acq: 06 Jun 2023 19:49



Tgt Ion:330 Resp: 147441
Ion Ratio Lower Upper
330 100
332 98.5 77.8 116.6
141 32.1 26.6 40.0





#45

2-Fluorobiphenyl

Concen: 62.045 ng

RT: 9.198 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF133600.D

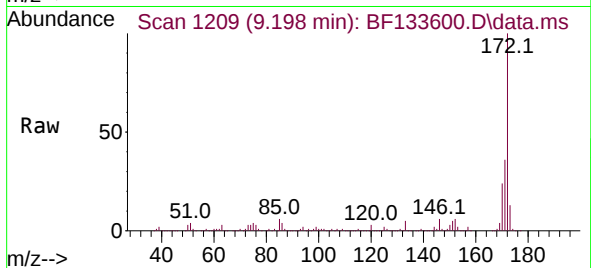
Acq: 06 Jun 2023 19:49

Instrument :

BNA_F

ClientSampleId :

SB03



Tgt Ion:172 Resp: 768529

Ion Ratio Lower Upper

172 100

171 35.6 28.4 42.6

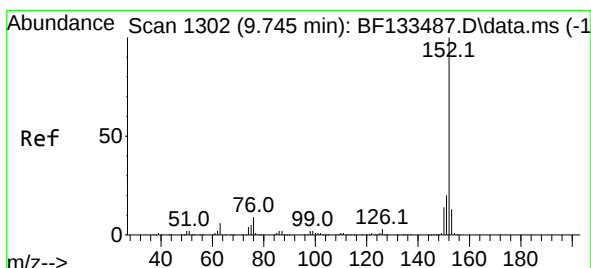
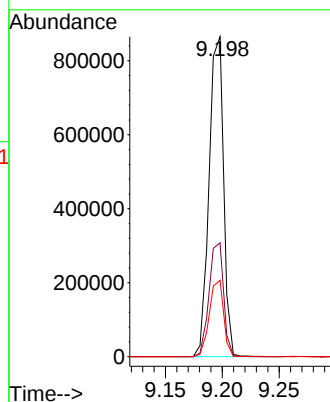
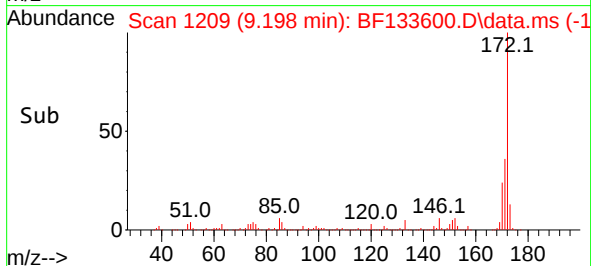
170 23.9 19.3 28.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/07/2023

Supervised By :mohammad ahmed 06/08/2023



#49

Acenaphthylene

Concen: 10.114 ng

RT: 9.733 min Scan# 1300

Delta R.T. -0.006 min

Lab File: BF133600.D

Acq: 06 Jun 2023 19:49

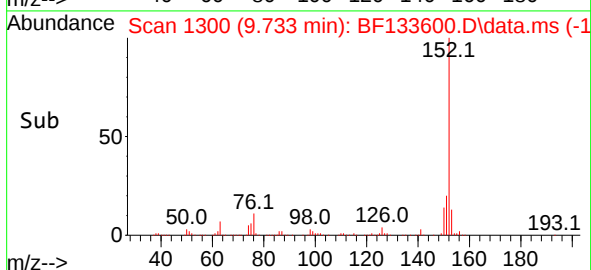
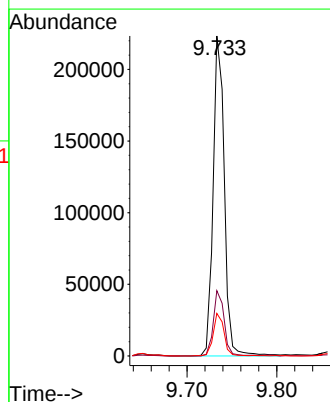
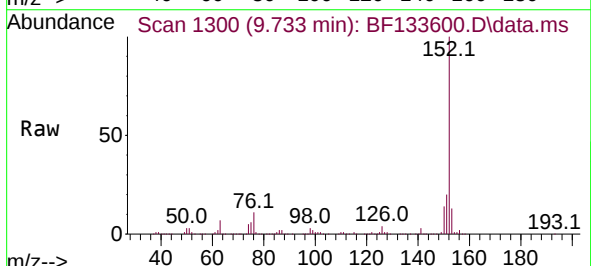
Tgt Ion:152 Resp: 194300

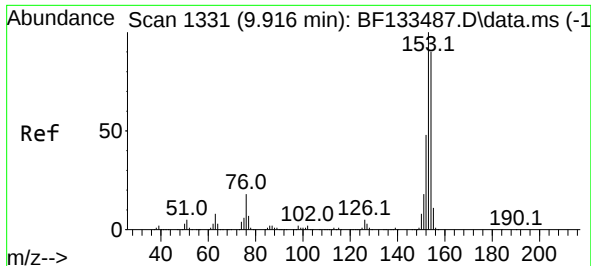
Ion Ratio Lower Upper

152 100

151 20.4 16.0 24.0

153 13.3 10.4 15.6





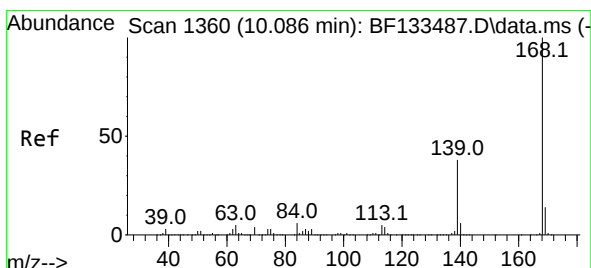
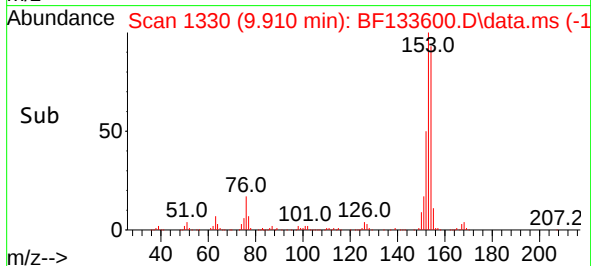
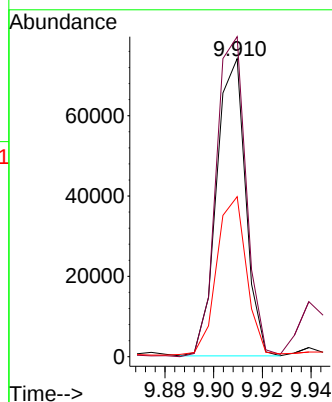
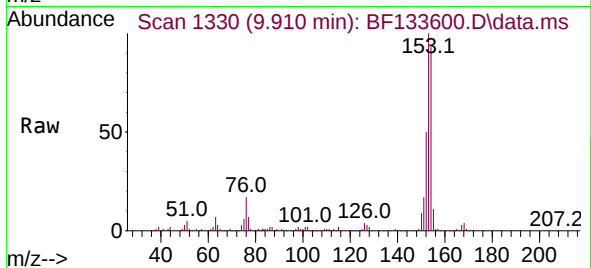
#52
Acenaphthene
Concen: 5.268 ng
RT: 9.910 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF133600.D
Acq: 06 Jun 2023 19:49

Instrument :
BNA_F
ClientSampleId :
SB03

Tgt Ion:154 Resp: 6130
Ion Ratio Lower Upper
154 100
153 107.3 89.2 133.8
152 53.7 43.1 64.7

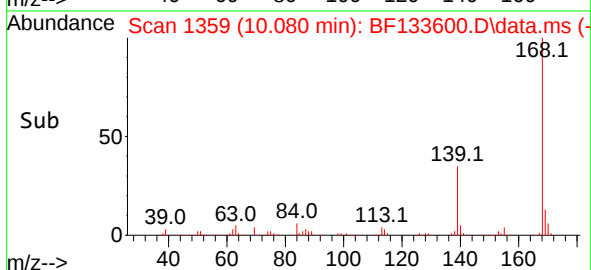
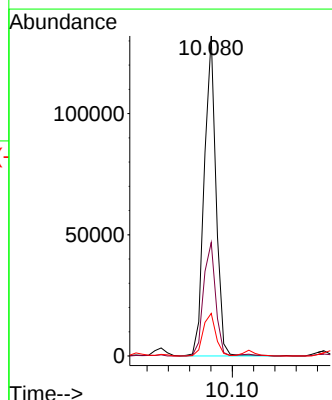
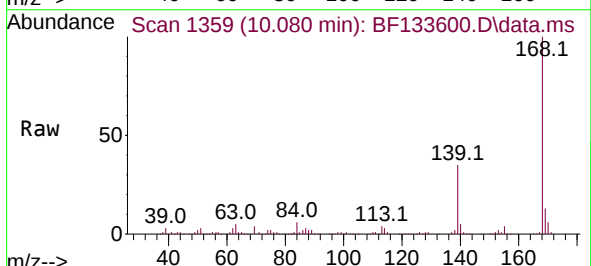
Manual Integrations
APPROVED

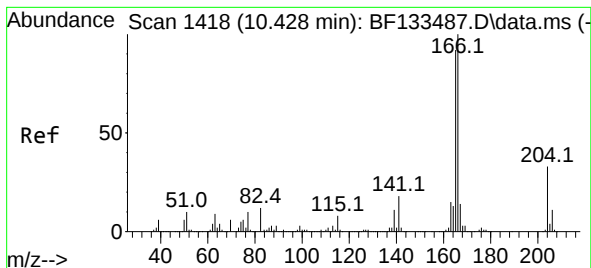
Reviewed By :Yogesh Patel 06/07/2023
Supervised By :mohammad ahmed 06/08/2023



#55
Dibenzofuran
Concen: 5.870 ng
RT: 10.080 min Scan# 1359
Delta R.T. -0.006 min
Lab File: BF133600.D
Acq: 06 Jun 2023 19:49

Tgt Ion:168 Resp: 101623
Ion Ratio Lower Upper
168 100
139 35.4 30.6 46.0
169 13.3 10.9 16.3





#58

Fluorene

Concen: 8.480 ng

RT: 10.421 min Scan# 1418

Delta R.T. -0.006 min

Lab File: BF133600.D

Acq: 06 Jun 2023 19:49

Instrument :

BNA_F

ClientSampleId :

SB03

Tgt Ion:166 Resp: 10756

Ion Ratio Lower Upper

166 100

165 90.4 73.4 110.0

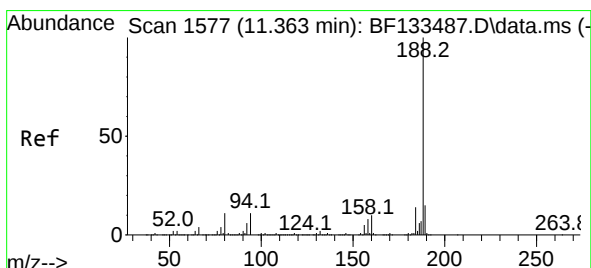
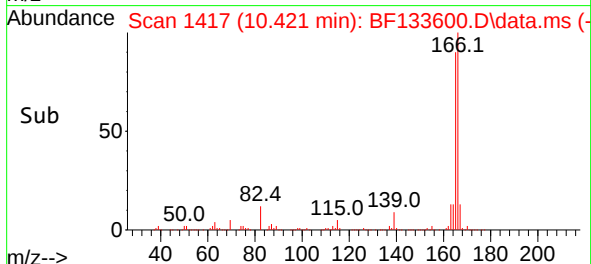
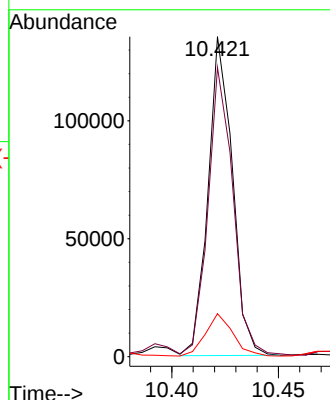
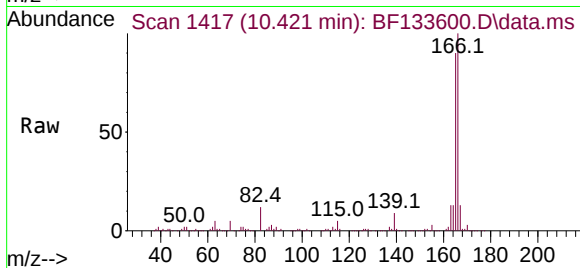
167 13.4 10.9 16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/07/2023

Supervised By :mohammad ahmed 06/08/2023



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.368 min Scan# 1578

Delta R.T. 0.006 min

Lab File: BF133600.D

Acq: 06 Jun 2023 19:49

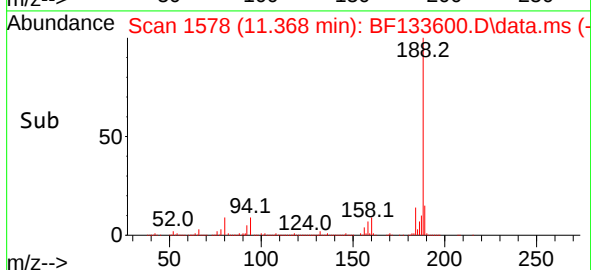
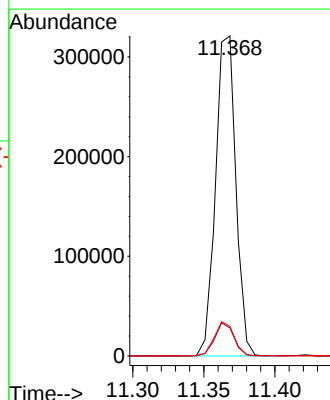
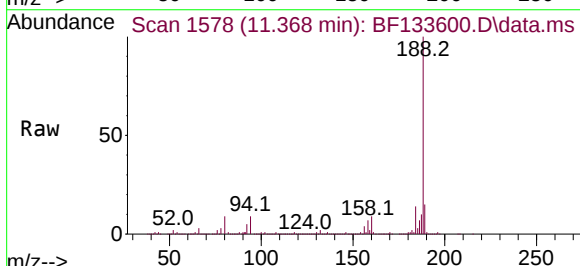
Tgt Ion:188 Resp: 319570

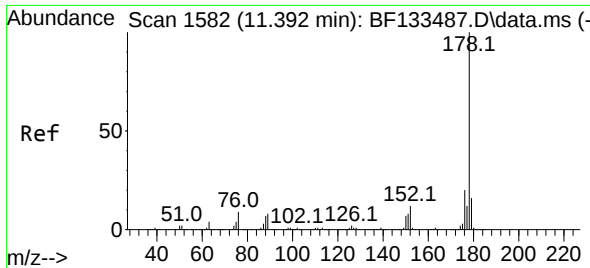
Ion Ratio Lower Upper

188 100

94 8.8 8.6 12.8

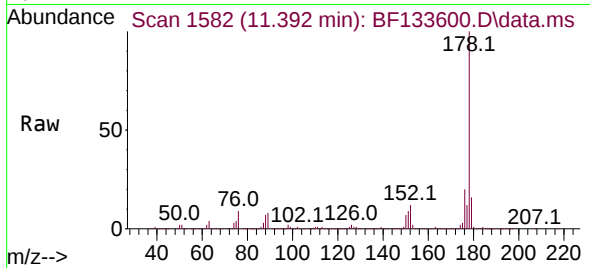
80 9.3 9.2 13.8





#71
Phenanthrene
Concen: 72.714 ng
RT: 11.392 min Scan# 1582
Delta R.T. -0.000 min
Lab File: BF133600.D
Acq: 06 Jun 2023 19:49

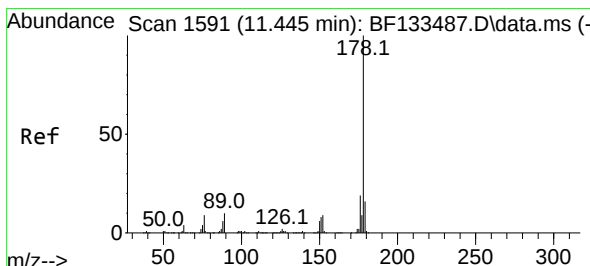
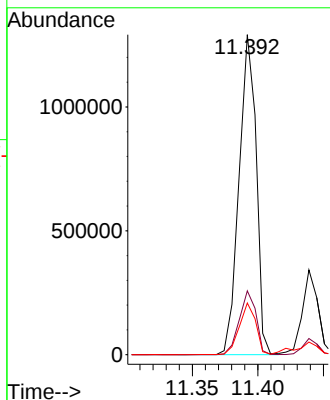
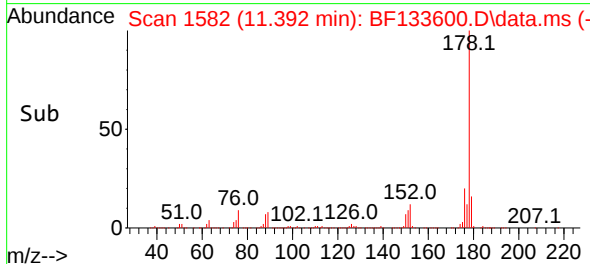
Instrument :
BNA_F
ClientSampleId :
SB03



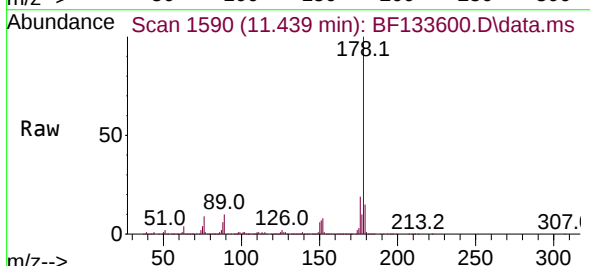
Tgt Ion:178 Resp: 1176950
Ion Ratio Lower Upper
178 100
176 20.0 15.6 23.4
179 16.1 12.4 18.6

Manual Integrations
APPROVED

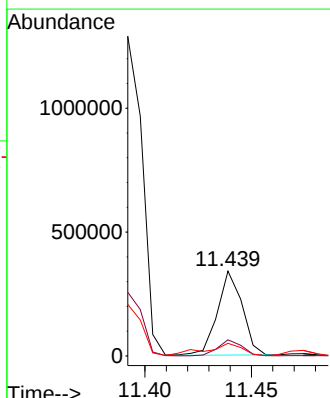
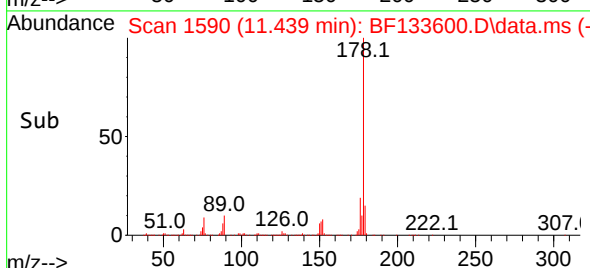
Reviewed By :Yogesh Patel 06/07/2023
Supervised By :mohammad ahmed 06/08/2023

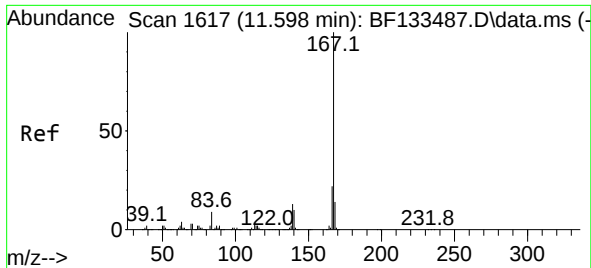


#72
Anthracene
Concen: 16.457 ng
RT: 11.439 min Scan# 1590
Delta R.T. -0.000 min
Lab File: BF133600.D
Acq: 06 Jun 2023 19:49



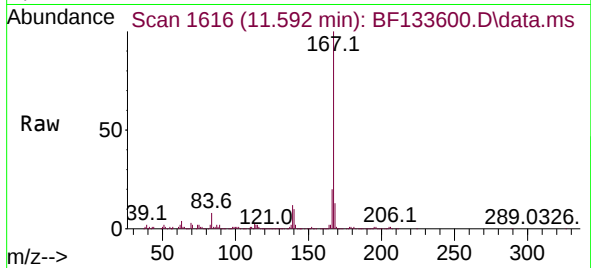
Tgt Ion:178 Resp: 274146
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.0 12.6 18.8





#73
 Carbazole
 Concen: 11.851 ng
 RT: 11.592 min Scan# 1616
 Delta R.T. -0.006 min
 Lab File: BF133600.D
 Acq: 06 Jun 2023 19:49

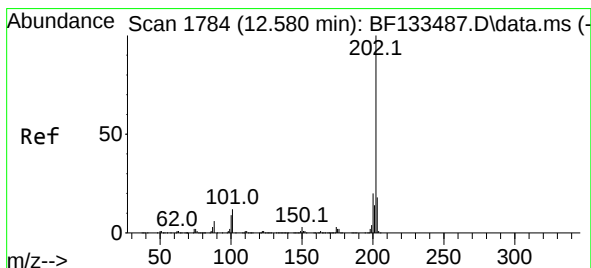
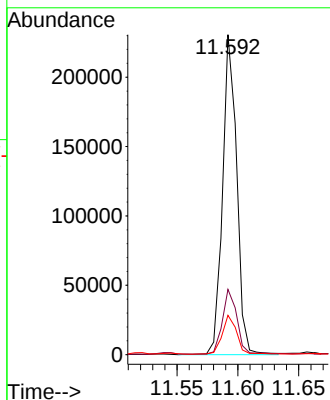
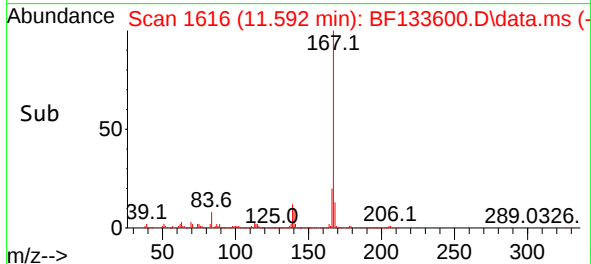
Instrument :
 BNA_F
 ClientSampleId :
 SB03



Tgt Ion:167 Resp: 18670
 Ion Ratio Lower Upper
 167 100
 166 20.4 17.3 25.9
 139 12.3 10.7 16.1

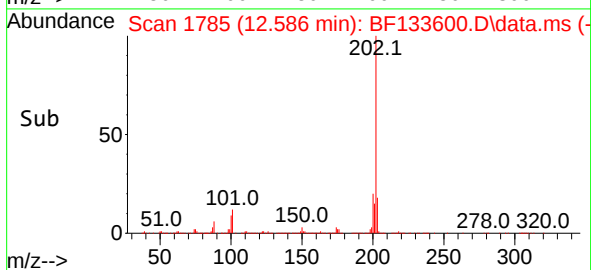
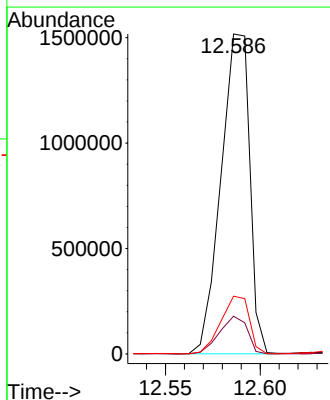
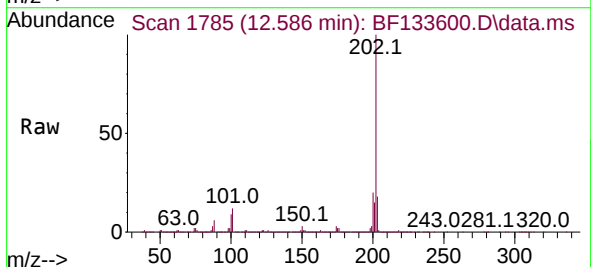
Manual Integrations
 APPROVED

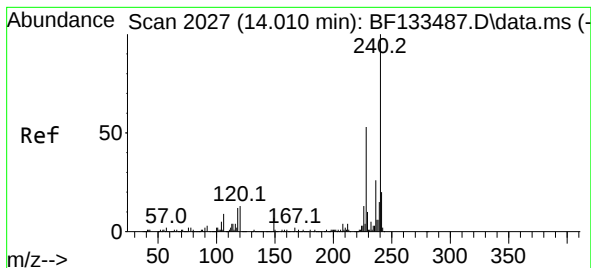
Reviewed By :Yogesh Patel 06/07/2023
 Supervised By :mohammad ahmed 06/08/2023



#75
 Fluoranthene
 Concen: 89.567 ng
 RT: 12.586 min Scan# 1785
 Delta R.T. 0.006 min
 Lab File: BF133600.D
 Acq: 06 Jun 2023 19:49

Tgt Ion:202 Resp: 1601340
 Ion Ratio Lower Upper
 202 100
 101 11.8 0.0 32.2
 203 18.0 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.015 min Scan# 2027

Delta R.T. 0.006 min

Lab File: BF133600.D

Acq: 06 Jun 2023 19:49

Instrument :

BNA_F

ClientSampleId :

SB03

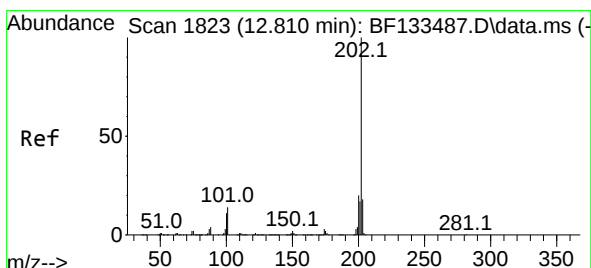
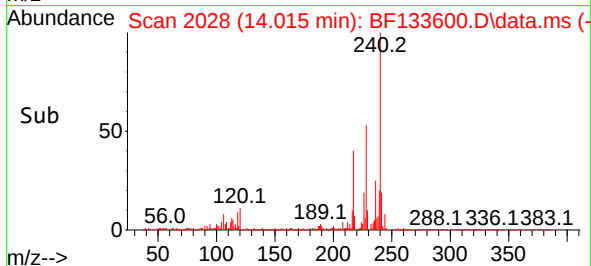
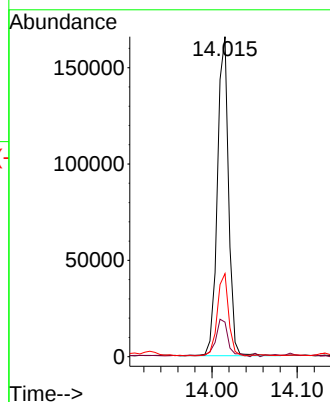
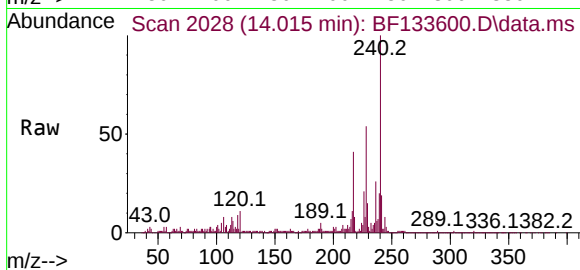
Tgt Ion:240 Resp: 151658
 Ion Ratio Lower Upper
 240 100
 120 10.8 10.3 15.5
 236 25.9 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/07/2023

Supervised By :mohammad ahmed 06/08/2023



#78

Pyrene

Concen: 105.249 ng

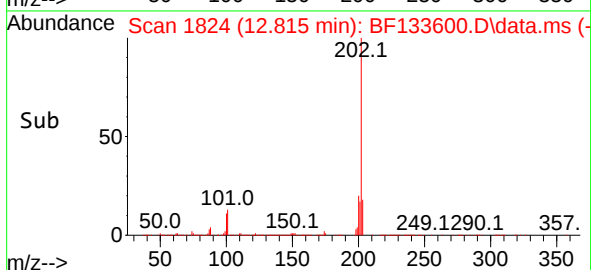
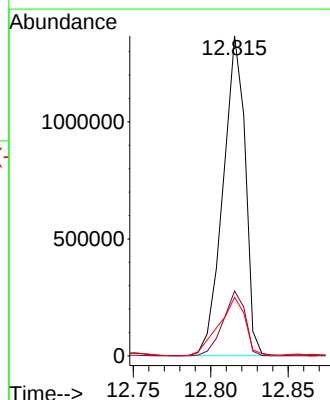
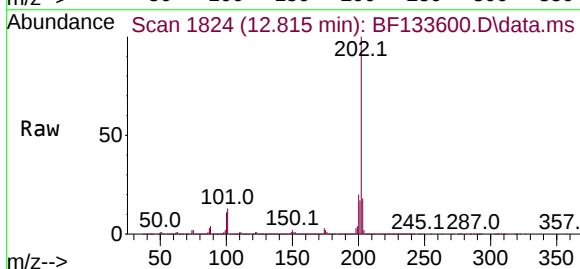
RT: 12.815 min Scan# 1824

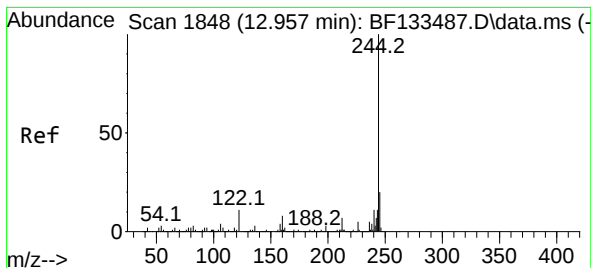
Delta R.T. 0.006 min

Lab File: BF133600.D

Acq: 06 Jun 2023 19:49

Tgt Ion:202 Resp: 1358278
 Ion Ratio Lower Upper
 202 100
 200 20.3 16.3 24.5
 203 18.4 14.3 21.5





#79

Terphenyl-d14

Concen: 68.270 ng

RT: 12.957 min Scan# 1848

Delta R.T. -0.000 min

Lab File: BF133600.D

Acq: 06 Jun 2023 19:49

Instrument :

BNA_F

ClientSampleId :

SB03

Tgt Ion:244 Resp: 582328

Ion Ratio Lower Upper

244 100

212 6.6 5.8 8.6

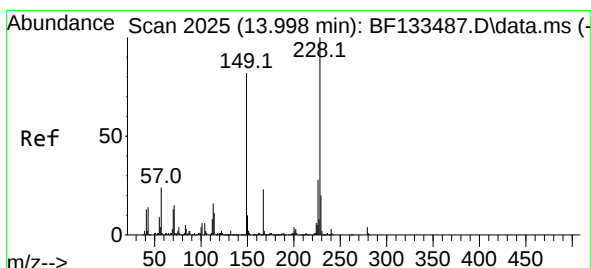
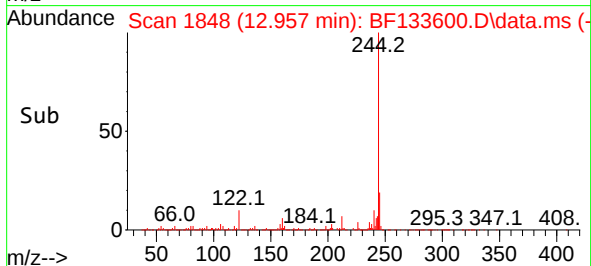
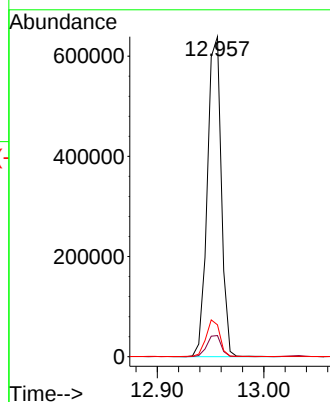
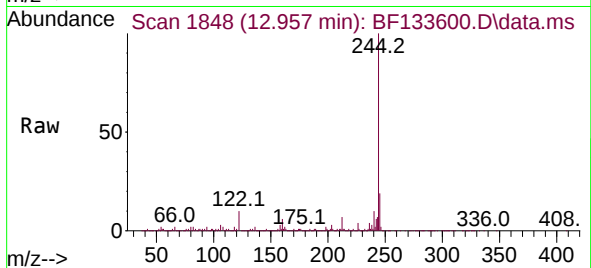
122 9.9 8.5 12.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/07/2023

Supervised By :mohammad ahmed 06/08/2023



#81

Benzo(a)anthracene

Concen: 59.064 ng

RT: 14.004 min Scan# 2026

Delta R.T. 0.006 min

Lab File: BF133600.D

Acq: 06 Jun 2023 19:49

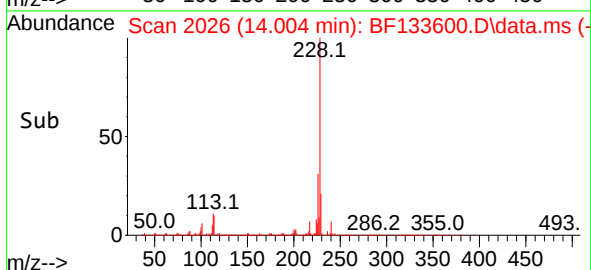
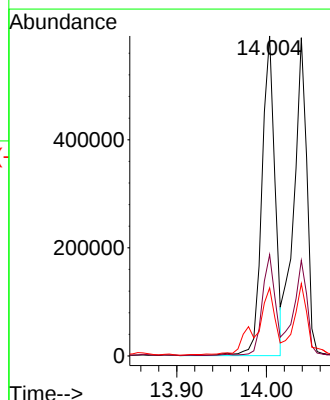
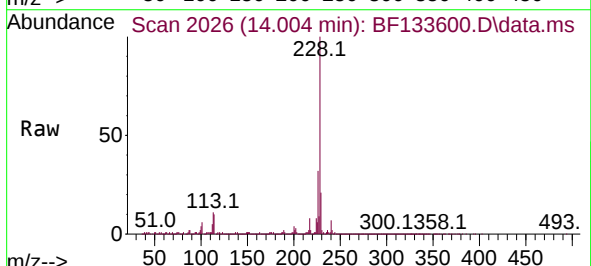
Tgt Ion:228 Resp: 596725

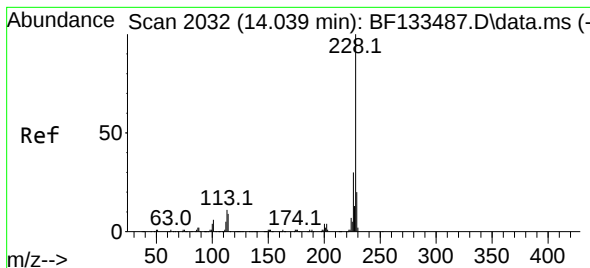
Ion Ratio Lower Upper

228 100

226 31.6 22.3 33.5

229 21.2 16.1 24.1





#83

Chrysene

Concen: 57.806 ng m

RT: 14.039 min Scan# 2032

Delta R.T. -0.000 min

Lab File: BF133600.D

Acq: 06 Jun 2023 19:49

Instrument :

BNA_F

ClientSampleId :

SB03

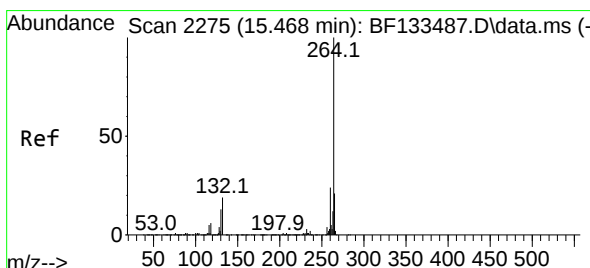
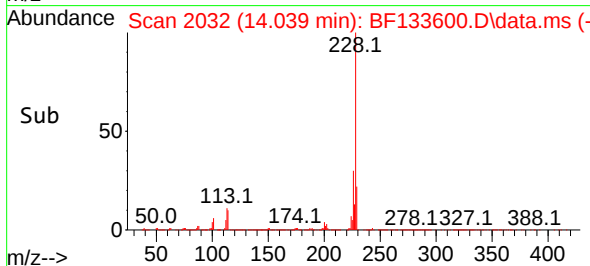
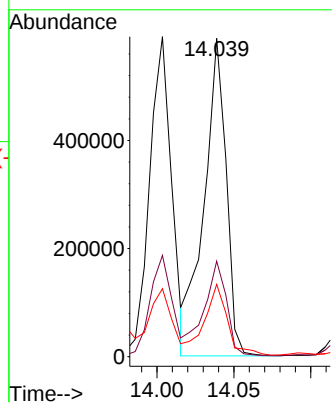
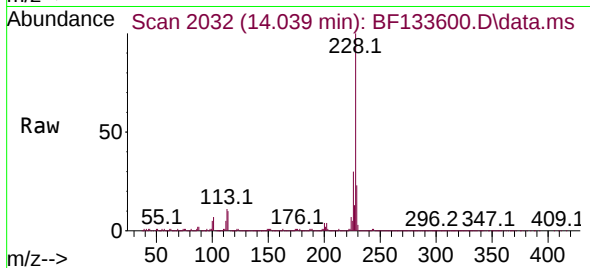
Tgt Ion:	228	Resp:	589564
Ion Ratio	Lower	Upper	
228	100		
226	30.0	24.1	36.1
229	22.7	15.8	23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/07/2023

Supervised By :mohammad ahmed 06/08/2023



#86

Perylene-d12

Concen: 20.000 ng

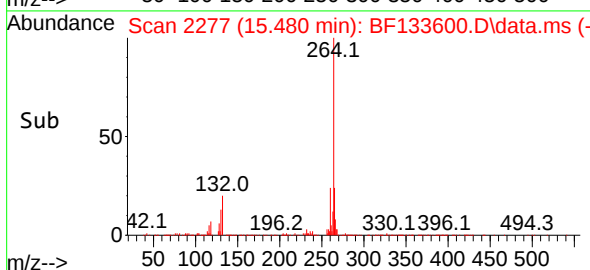
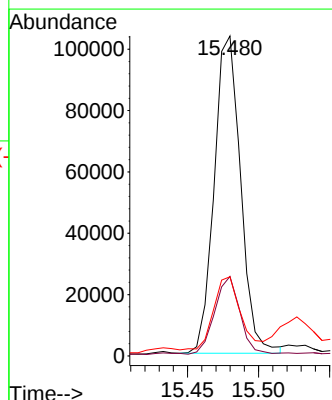
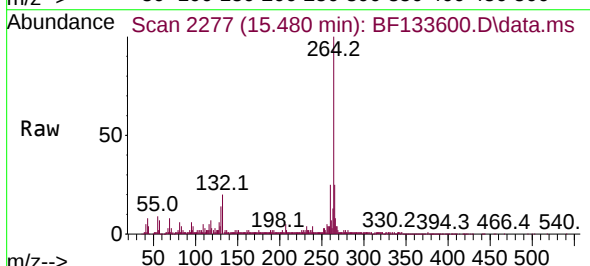
RT: 15.480 min Scan# 2277

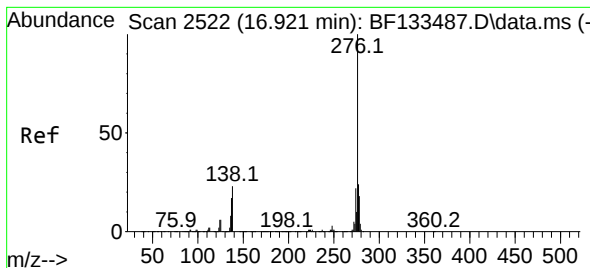
Delta R.T. 0.012 min

Lab File: BF133600.D

Acq: 06 Jun 2023 19:49

Tgt Ion:	264	Resp:	133677
Ion Ratio	Lower	Upper	
264	100		
260	24.9	19.0	28.4
265	24.7	16.8	25.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 30.070 ng m

RT: 16.939 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF133600.D

Acq: 06 Jun 2023 19:49

Instrument :

BNA_F

ClientSampleId :

SB03

Tgt Ion:276 Resp: 25604

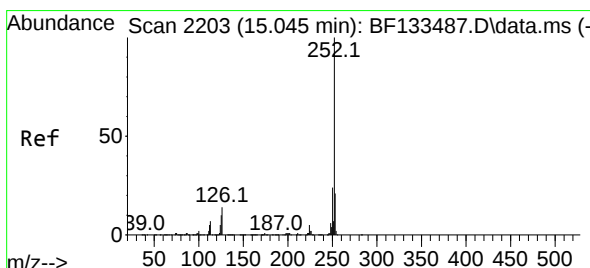
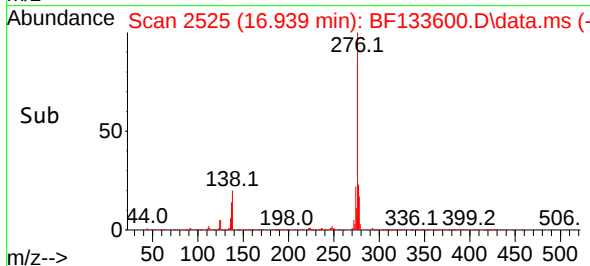
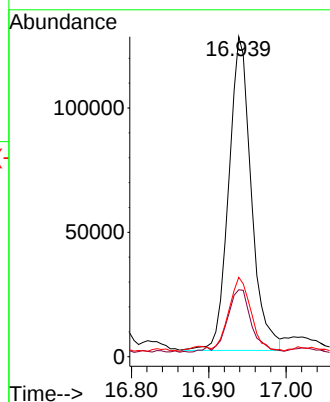
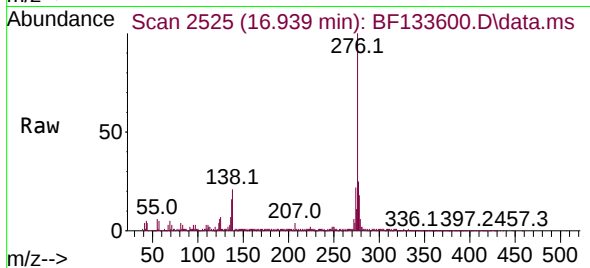
Ion	Ratio	Lower	Upper
276	100		
138	4.7	21.4	32.2
277	5.0	20.0	30.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/07/2023

Supervised By :mohammad ahmed 06/08/2023



#88

Benzo(b)fluoranthene

Concen: 69.837 ng m

RT: 15.056 min Scan# 2205

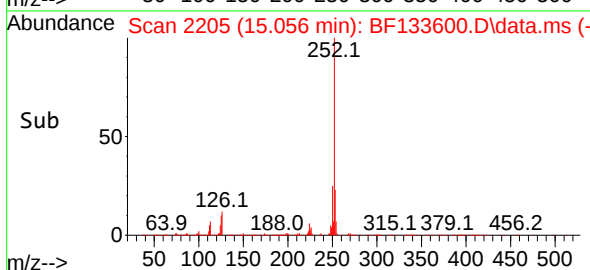
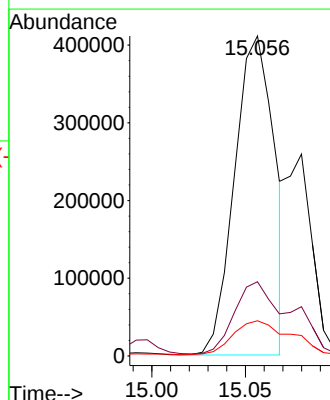
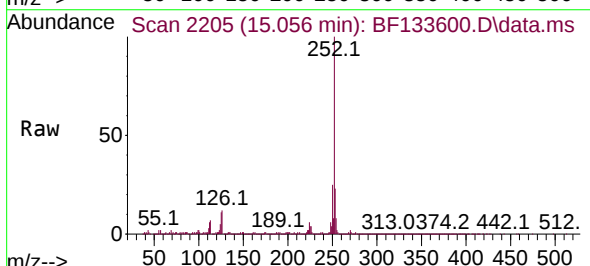
Delta R.T. 0.012 min

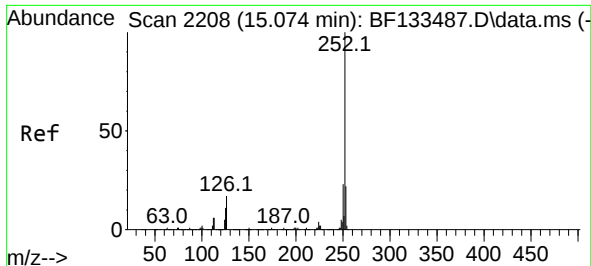
Lab File: BF133600.D

Acq: 06 Jun 2023 19:49

Tgt Ion:252 Resp: 607907

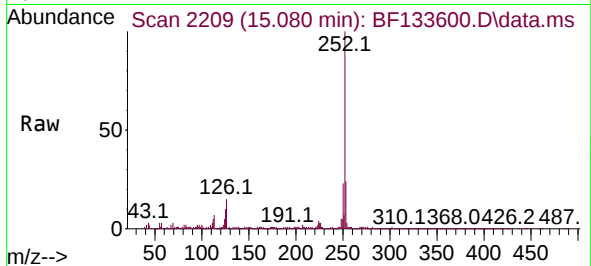
Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.2	25.8
125	11.0	8.1	12.1





#89
Benzo(k)fluoranthene
Concen: 27.905 ng m
RT: 15.080 min Scan# 2209
Delta R.T. 0.006 min
Lab File: BF133600.D
Acq: 06 Jun 2023 19:49

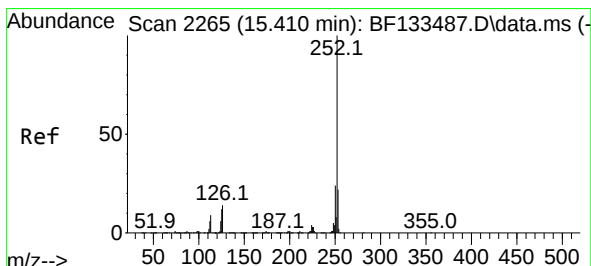
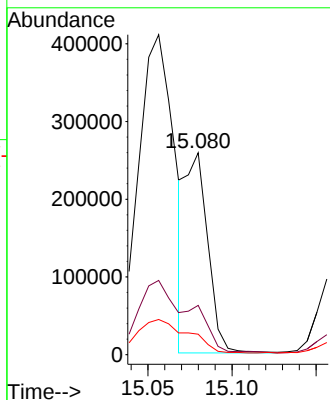
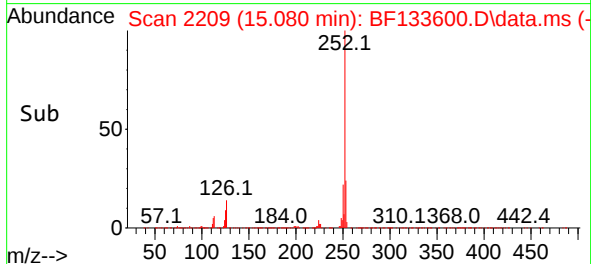
Instrument :
BNA_F
ClientSampleId :
SB03



Tgt Ion:252 Resp: 236849
Ion Ratio Lower Upper
252 100
253 24.4 17.4 26.2
125 10.1 8.3 12.5

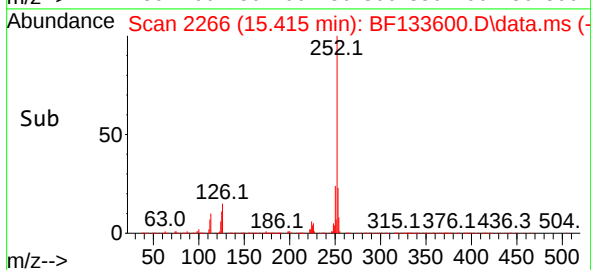
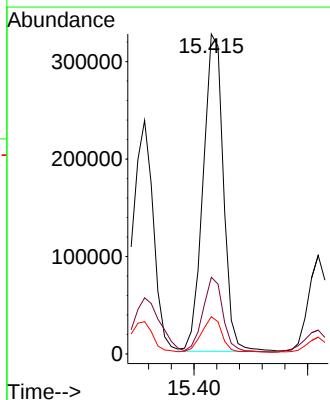
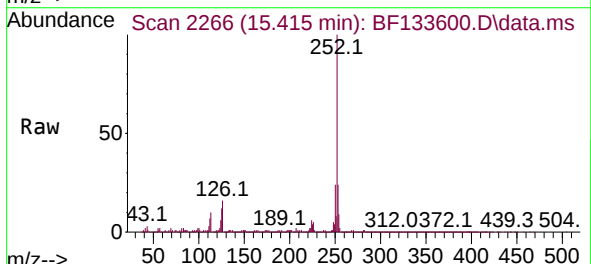
Manual Integrations
APPROVED

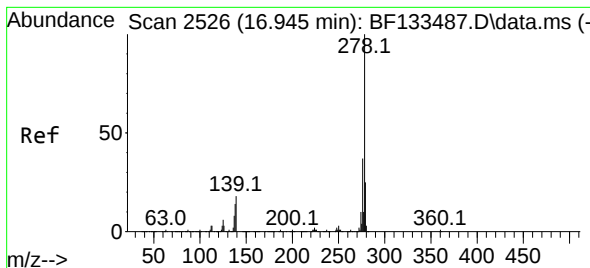
Reviewed By :Yogesh Patel 06/07/2023
Supervised By :mohammad ahmed 06/08/2023



#90
Benzo(a)pyrene
Concen: 50.991 ng
RT: 15.415 min Scan# 2266
Delta R.T. 0.006 min
Lab File: BF133600.D
Acq: 06 Jun 2023 19:49

Tgt Ion:252 Resp: 403888
Ion Ratio Lower Upper
252 100
253 24.0 17.4 26.0
125 11.7 9.4 14.0





#91

Dibenzo(a,h)anthracene

Concen: 8.859 ng m

RT: 16.950 min Scan# 2

Delta R.T. -0.000 min

Lab File: BF133600.D

Acq: 06 Jun 2023 19:49

Instrument :

BNA_F

ClientSampleId :

SB03

Tgt Ion:278 Resp: 6115

Ion Ratio Lower Upper

278 100

139 0.0 14.1 21.1

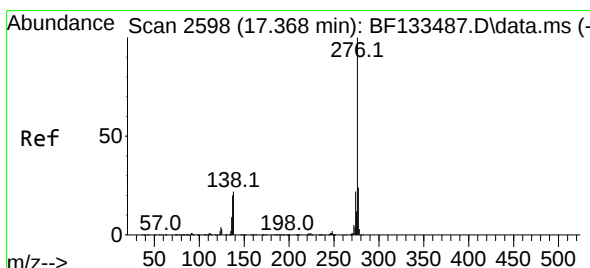
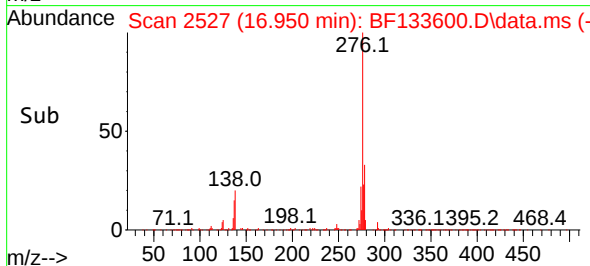
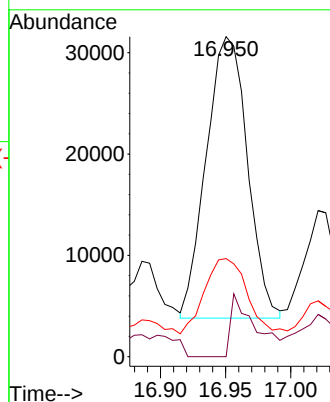
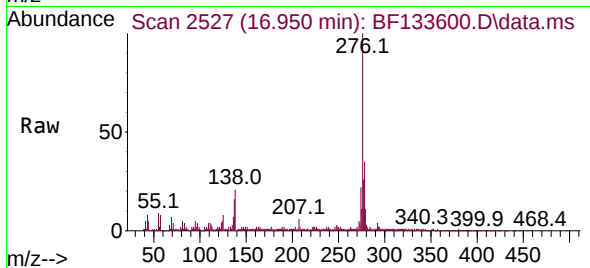
279 30.7 19.7 29.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/07/2023

Supervised By :mohammad ahmed 06/08/2023



#92

Benzo(g,h,i)perylene

Concen: 31.836 ng

RT: 17.380 min Scan# 2600

Delta R.T. 0.006 min

Lab File: BF133600.D

Acq: 06 Jun 2023 19:49

Tgt Ion:276 Resp: 221617

Ion Ratio Lower Upper

276 100

277 24.6 18.8 28.2

138 23.0 17.8 26.6

