

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
 Data File : BF133963.D
 Acq On : 26 Jun 2023 21:03
 Operator : CG\JU
 Sample : 03369-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ORA-1650

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/27/2023
 Supervised By :mohammad ahmed 06/29/2023

Quant Time: Jun 26 23:31:03 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 26 23:12:04 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.851	152	111768	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	381745	20.000	ng	0.00
39) Acenaphthene-d10	9.886	164	156744	20.000	ng	0.00
64) Phenanthrene-d10	11.380	188	289384	20.000	ng	0.00
76) Chrysene-d12	14.051	240	168575	20.000	ng	0.00
86) Perylene-d12	15.563	264	149442	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	567466	84.929	ng	0.00
7) Phenol-d6	6.481	99	652396	79.395	ng	-0.01
23) Nitrobenzene-d5	7.410	82	425243	60.048	ng	0.00
42) 2,4,6-Tribromophenol	10.680	330	144822	73.691	ng	0.00
45) 2-Fluorobiphenyl	9.204	172	639637	59.330	ng	0.00
79) Terphenyl-d14	12.980	244	580634	55.434	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.151	128	88350	4.791	ng	98
37) 2-Methylnaphthalene	8.839	142	70372	5.397	ng	99
38) 1-Methylnaphthalene	8.939	142	68696	5.667	ng	98
49) Acenaphthylene	9.745	152	196646	12.513	ng	100
52) Acenaphthene	9.916	154	140504	15.408	ng	97
55) Dibenzofuran	10.092	168	130854	9.182	ng	97
58) Fluorene	10.439	166	244104	22.017	ng	99
71) Phenanthrene	11.416	178	1814379	124.545	ng	100
72) Anthracene	11.463	178	667236	44.035	ng	99
73) Carbazole	11.616	167	69280	4.995	ng	96
75) Fluoranthene	12.622	202	3157729	200.498	ng	98
78) Pyrene	12.851	202	2919321	186.084	ng	98
81) Benzo(a)anthracene	14.039	228	1337078	114.368	ng	95
83) Chrysene	14.080	228	1132748	100.035	ng	97
87) Indeno(1,2,3-cd)pyrene	17.121	276	565823	54.565	ng	97
88) Benzo(b)fluoranthene	15.121	252	1305907m	148.613	ng	
89) Benzo(k)fluoranthene	15.145	252	321567m	35.942	ng	
90) Benzo(a)pyrene	15.504	252	908909	106.965	ng	97
91) Dibenzo(a,h)anthracene	17.127	278	136810m	16.152	ng	
92) Benzo(g,h,i)perylene	17.598	276	528308	60.485	ng	100

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

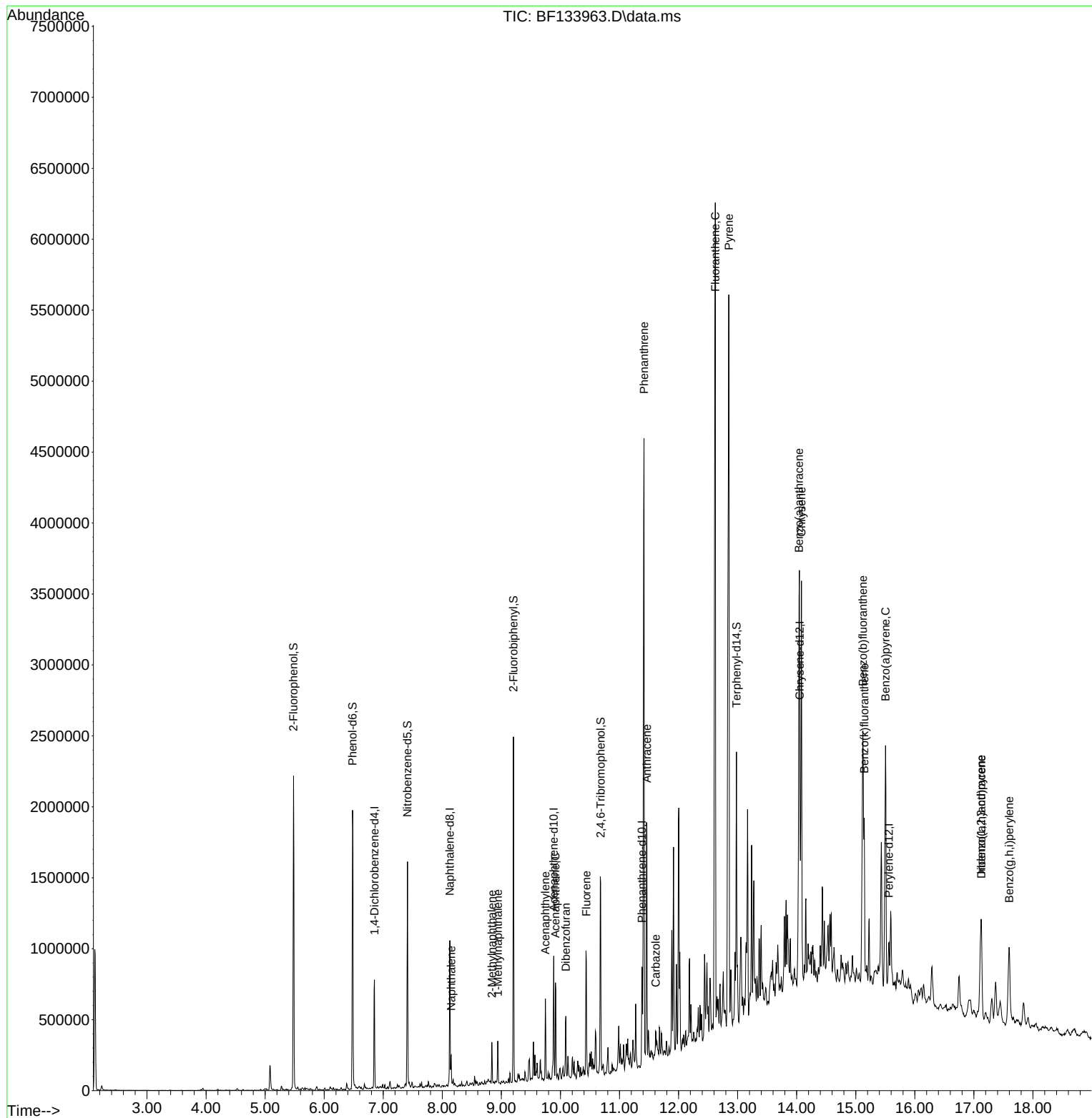
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133963.D
Acq On : 26 Jun 2023 21:03
Operator : CG\JU
Sample : 03369-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

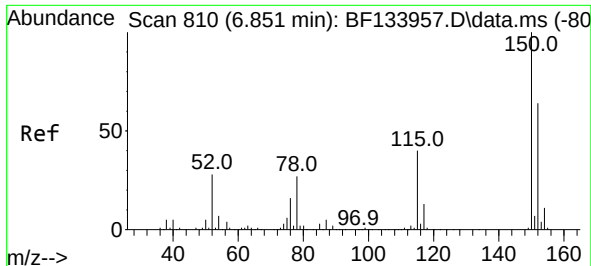
Instrument :
BNA_F
ClientSampleId :
ORA-1650

Quant Time: Jun 26 23:31:03 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 23:12:04 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

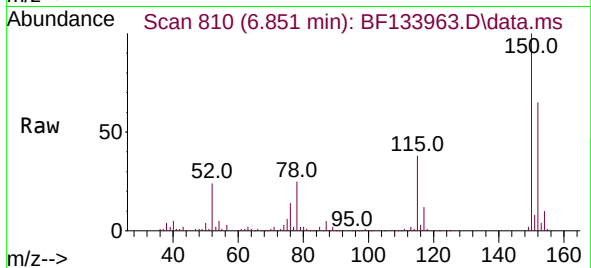
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 810
Delta R.T. 0.000 min
Lab File: BF133963.D
Acq: 26 Jun 2023 21:03

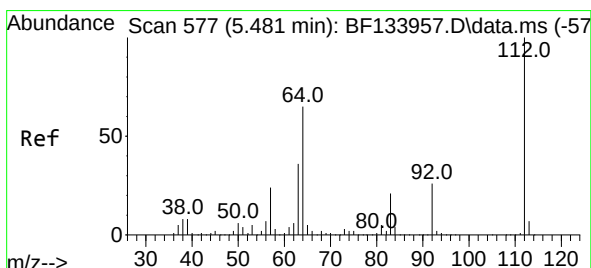
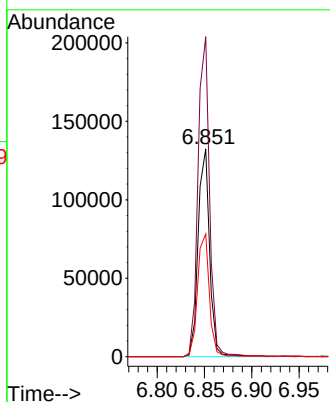
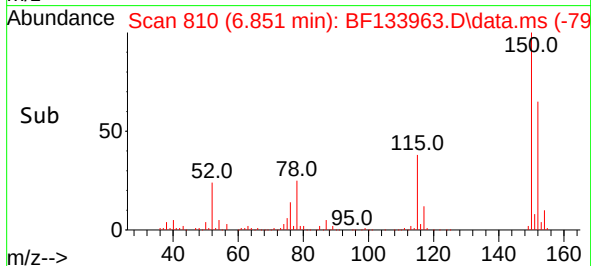
Instrument :
BNA_F
ClientSampleId :
ORA-1650



Tgt Ion:152 Resp: 111768
Ion Ratio Lower Upper
152 100
150 154.0 124.5 186.7
115 59.1 50.2 75.2

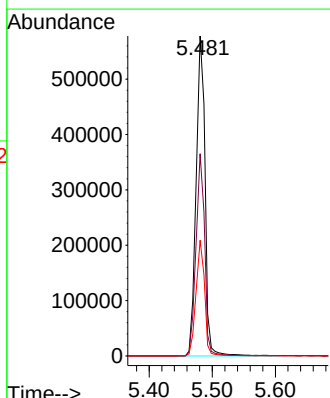
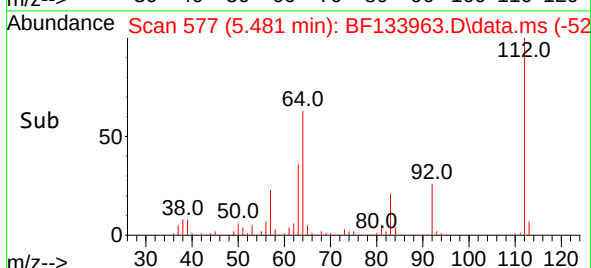
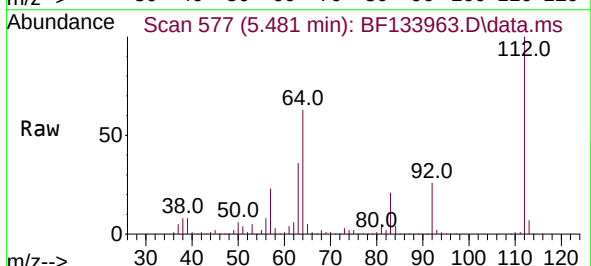
Manual Integrations
APPROVED

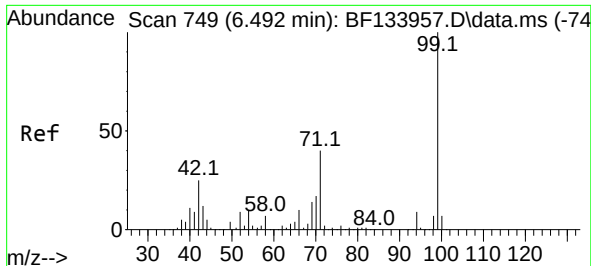
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023



#5
2-Fluorophenol
Concen: 84.929 ng
RT: 5.481 min Scan# 577
Delta R.T. 0.000 min
Lab File: BF133963.D
Acq: 26 Jun 2023 21:03

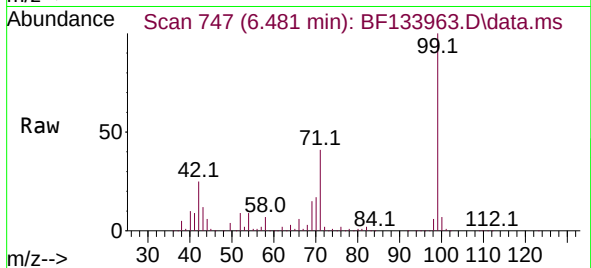
Tgt Ion:112 Resp: 567466
Ion Ratio Lower Upper
112 100
64 63.2 52.1 78.1
63 36.2 28.6 42.8





#7
Phenol-d6
Concen: 79.395 ng
RT: 6.481 min Scan# 749
Delta R.T. -0.012 min
Lab File: BF133963.D
Acq: 26 Jun 2023 21:03

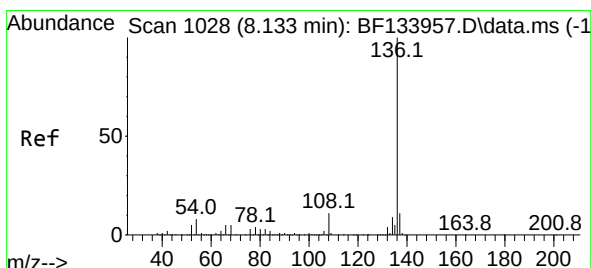
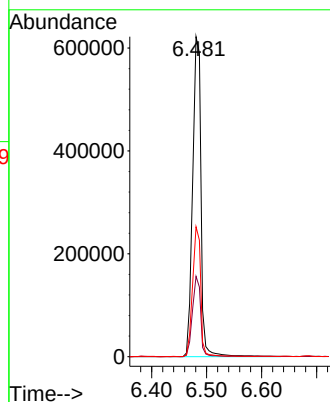
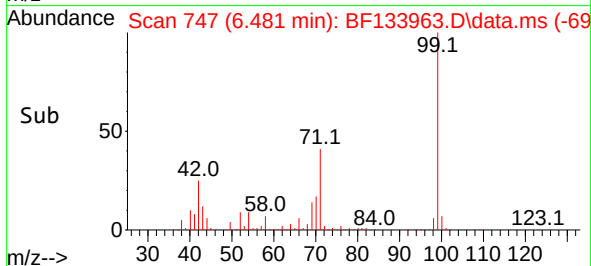
Instrument :
BNA_F
ClientSampleId :
ORA-1650



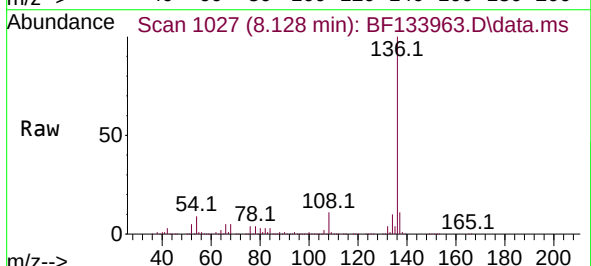
Tgt Ion: 99 Resp: 652390
Ion Ratio Lower Upper
99 100
42 25.1 19.8 29.6
71 40.6 31.9 47.9

Manual Integrations
APPROVED

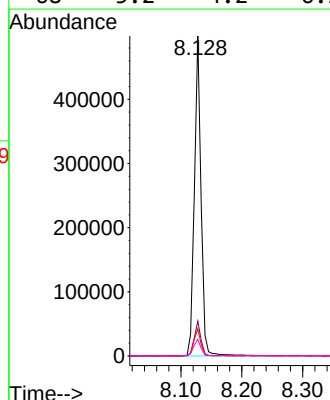
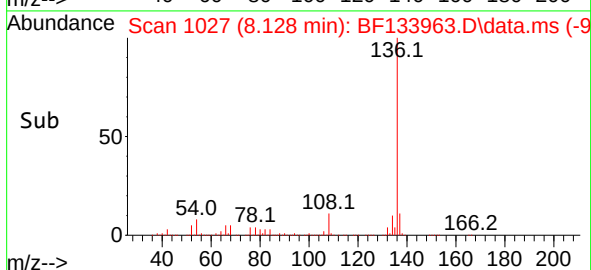
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

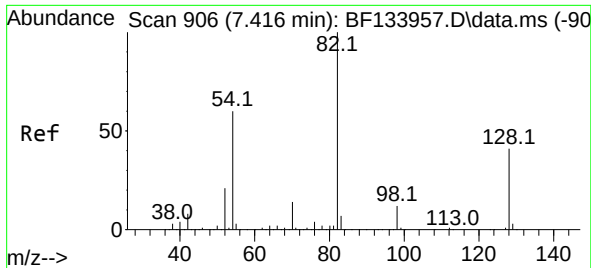


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1027
Delta R.T. -0.006 min
Lab File: BF133963.D
Acq: 26 Jun 2023 21:03



Tgt Ion:136 Resp: 381745
Ion Ratio Lower Upper
136 100
137 10.8 8.6 12.8
54 8.5 6.5 9.7
68 5.2 4.2 6.2





#23

Nitrobenzene-d5

Concen: 60.048 ng

RT: 7.410 min Scan# 906

Delta R.T. -0.006 min

Lab File: BF133963.D

Acq: 26 Jun 2023 21:03

Instrument :

BNA_F

ClientSampleId :

ORA-1650

Tgt Ion: 82 Resp: 42524

Ion Ratio Lower Upper

82 100

128 42.3 32.5 48.7

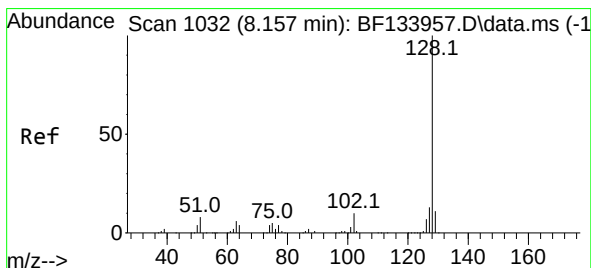
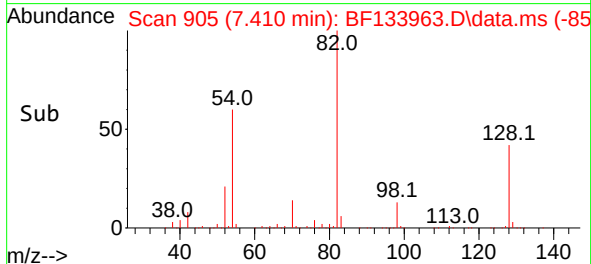
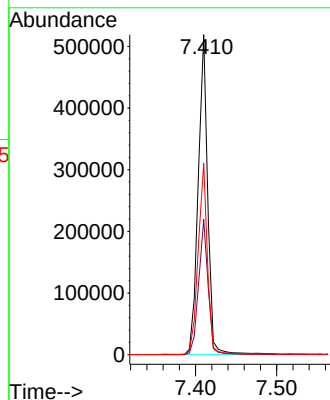
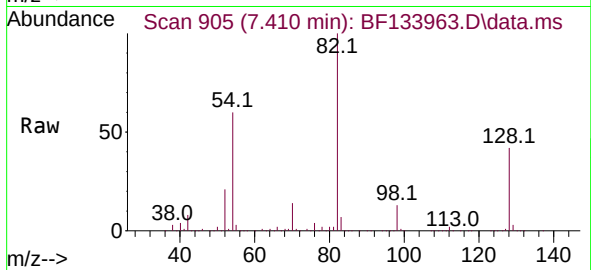
54 59.8 48.2 72.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/27/2023

Supervised By :mohammad ahmed 06/29/2023



#31

Naphthalene

Concen: 4.791 ng

RT: 8.151 min Scan# 1031

Delta R.T. -0.006 min

Lab File: BF133963.D

Acq: 26 Jun 2023 21:03

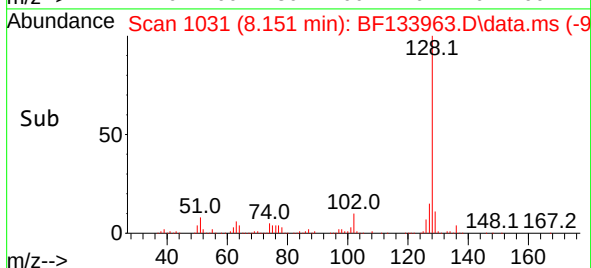
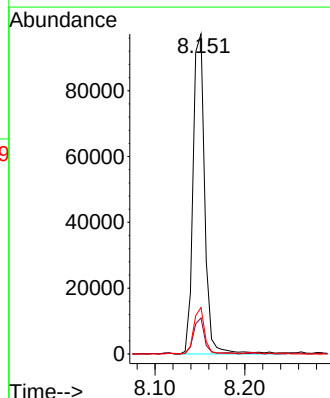
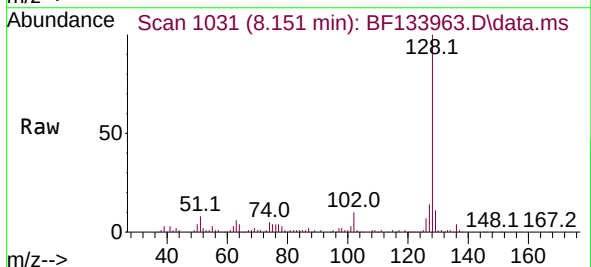
Tgt Ion:128 Resp: 88350

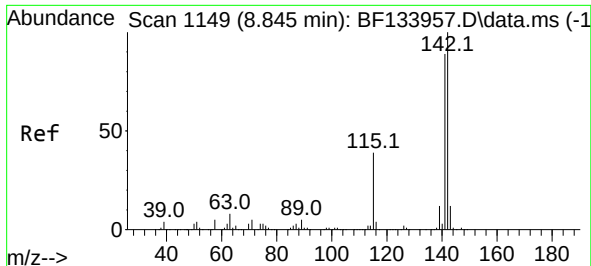
Ion Ratio Lower Upper

128 100

129 11.3 8.7 13.1

127 14.5 10.6 15.8





#37

2-Methylnaphthalene

Concen: 5.397 ng

RT: 8.839 min Scan# 1148

Delta R.T. -0.006 min

Lab File: BF133963.D

Acq: 26 Jun 2023 21:03

Instrument :

BNA_F

ClientSampleId :

ORA-1650

Tgt Ion:142 Resp: 70372

Ion Ratio Lower Upper

142 100

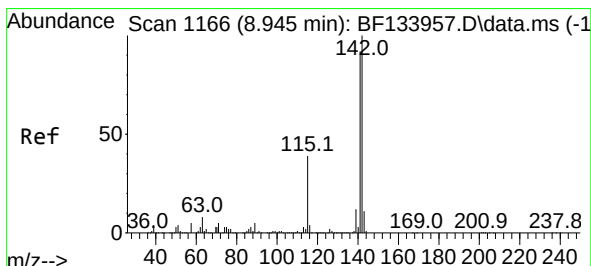
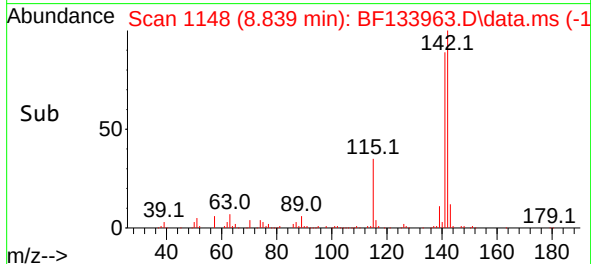
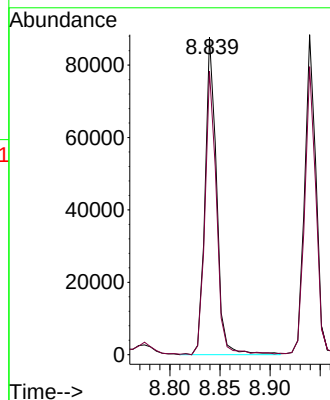
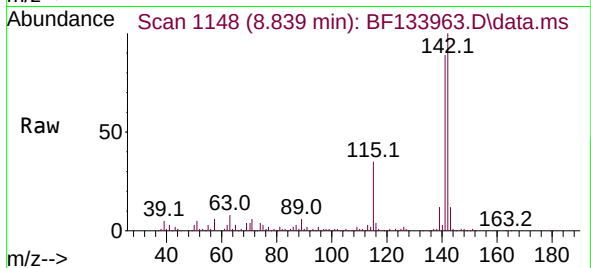
141 89.3 71.0 106.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/27/2023

Supervised By :mohammad ahmed 06/29/2023



#38

1-Methylnaphthalene

Concen: 5.667 ng

RT: 8.939 min Scan# 1165

Delta R.T. -0.006 min

Lab File: BF133963.D

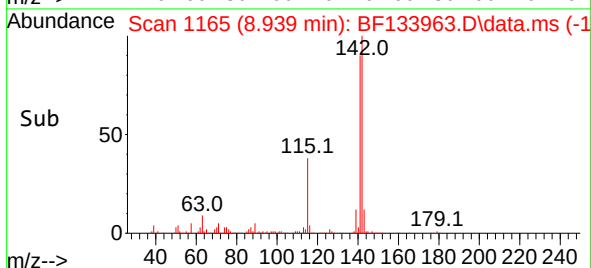
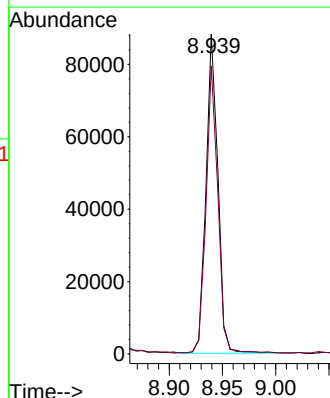
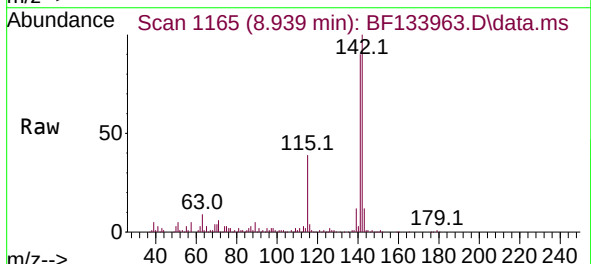
Acq: 26 Jun 2023 21:03

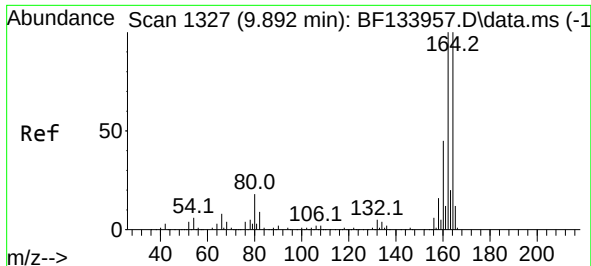
Tgt Ion:142 Resp: 68696

Ion Ratio Lower Upper

142 100

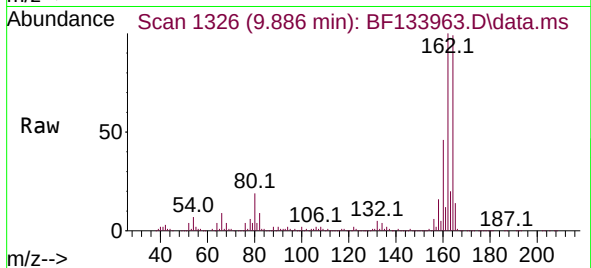
141 90.0 73.5 110.3





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133963.D
Acq: 26 Jun 2023 21:03

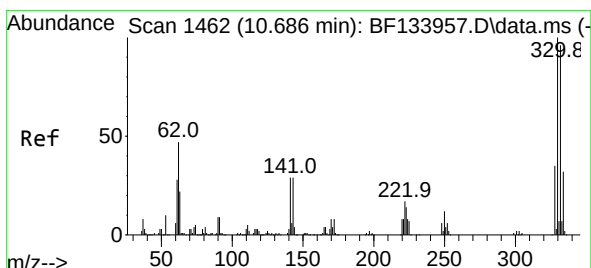
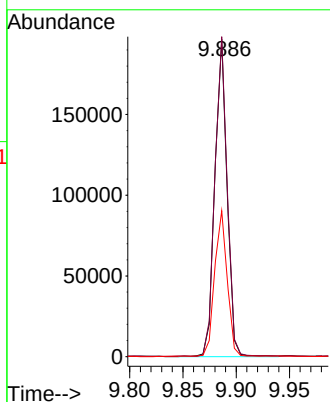
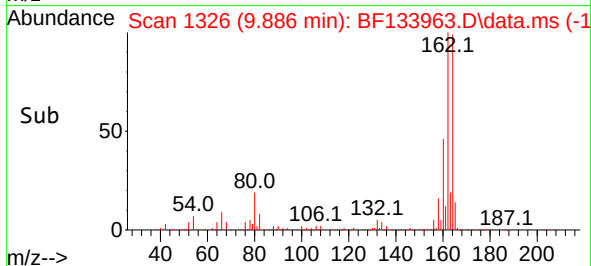
Instrument :
BNA_F
ClientSampleId :
ORA-1650



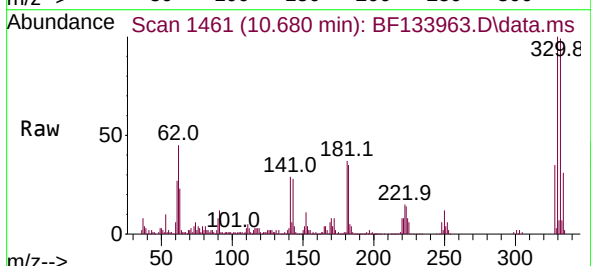
Tgt Ion:164 Resp: 156744
Ion Ratio Lower Upper
164 100
162 100.8 80.0 120.0
160 46.0 35.9 53.9

Manual Integrations
APPROVED

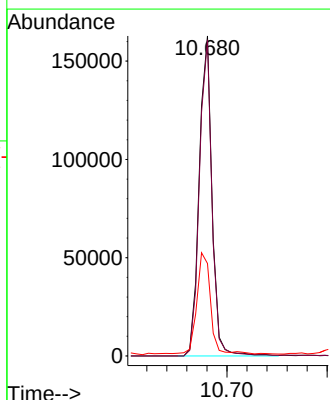
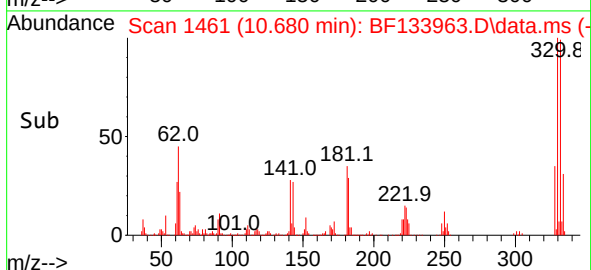
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

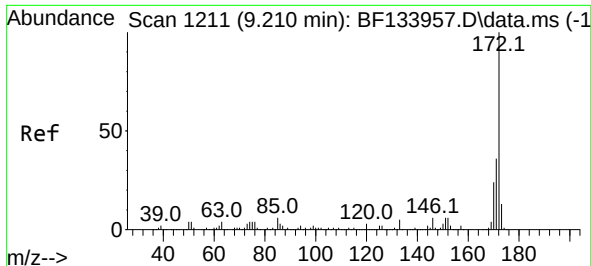


#42
2,4,6-Tribromophenol
Concen: 73.691 ng
RT: 10.680 min Scan# 1461
Delta R.T. -0.006 min
Lab File: BF133963.D
Acq: 26 Jun 2023 21:03



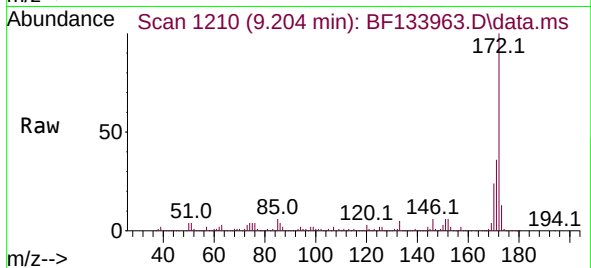
Tgt Ion:330 Resp: 144822
Ion Ratio Lower Upper
330 100
332 96.9 77.0 115.6
141 32.6 26.3 39.5





#45
2-Fluorobiphenyl
Concen: 59.330 ng
RT: 9.204 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133963.D
Acq: 26 Jun 2023 21:03

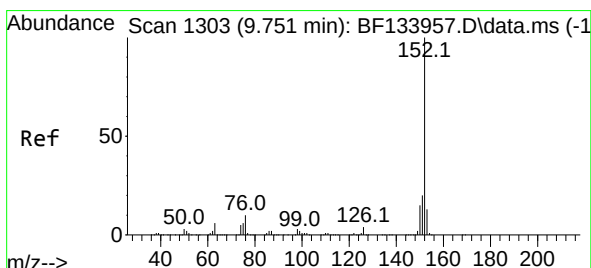
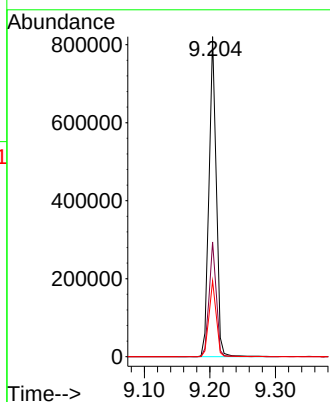
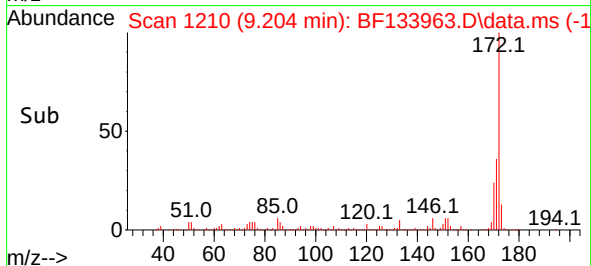
Instrument :
BNA_F
ClientSampleId :
ORA-1650



Tgt Ion:172 Resp: 63963
Ion Ratio Lower Upper
172 100
171 35.9 28.6 43.0
170 23.7 19.4 29.0

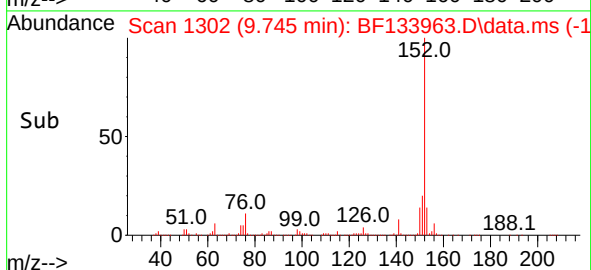
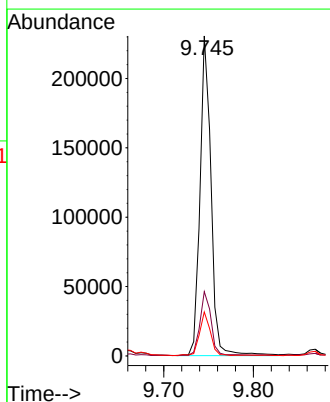
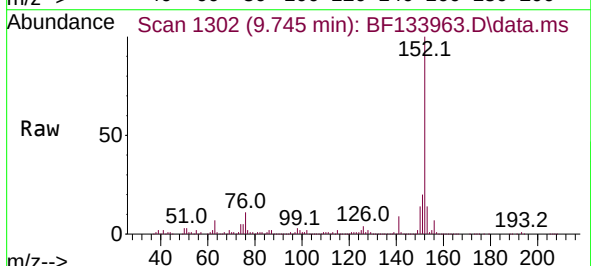
Manual Integrations
APPROVED

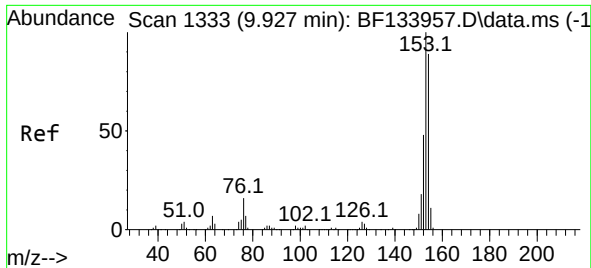
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023



#49
Acenaphthylene
Concen: 12.513 ng
RT: 9.745 min Scan# 1302
Delta R.T. -0.006 min
Lab File: BF133963.D
Acq: 26 Jun 2023 21:03

Tgt Ion:152 Resp: 196646
Ion Ratio Lower Upper
152 100
151 20.1 16.2 24.2
153 13.8 10.8 16.2





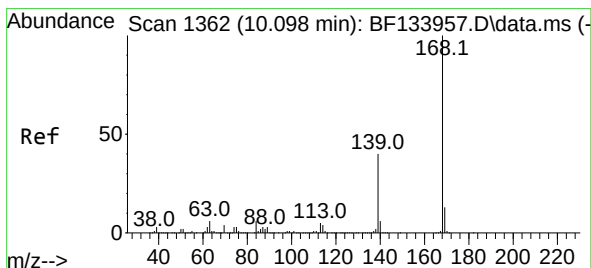
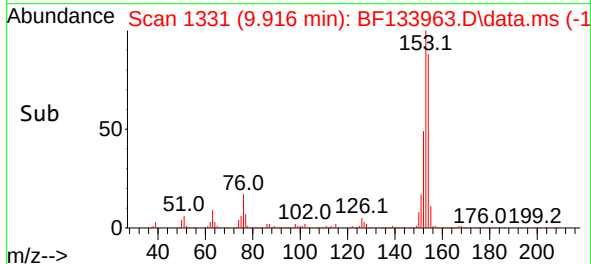
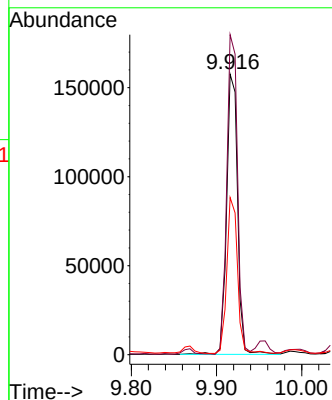
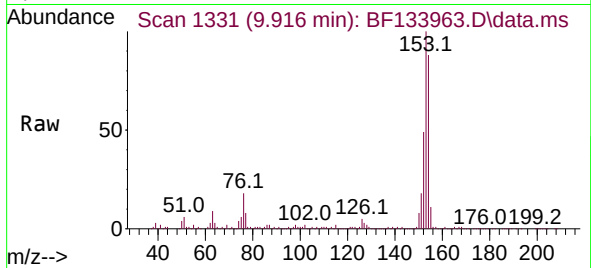
#52
Acenaphthene
Concen: 15.408 ng
RT: 9.916 min Scan# 1331
Delta R.T. -0.011 min
Lab File: BF133963.D
Acq: 26 Jun 2023 21:03

Instrument :
BNA_F
ClientSampleId :
ORA-1650

Tgt Ion:154 Resp: 140504
Ion Ratio Lower Upper
154 100
153 114.1 89.4 134.2
152 56.0 42.8 64.2

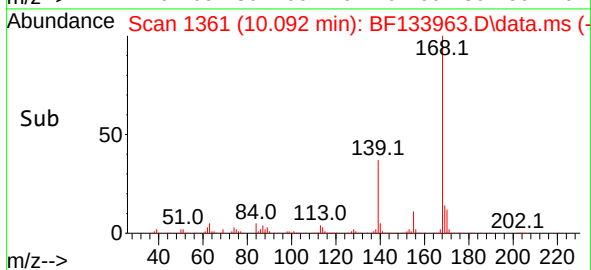
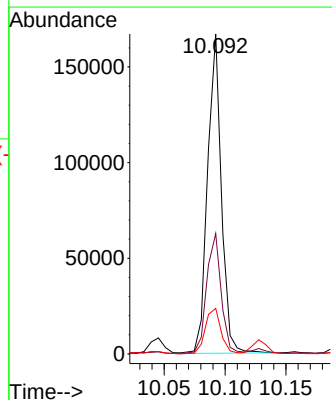
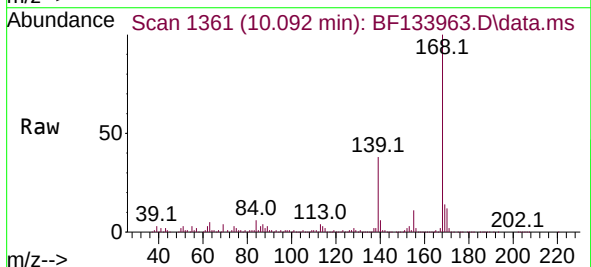
Manual Integrations
APPROVED

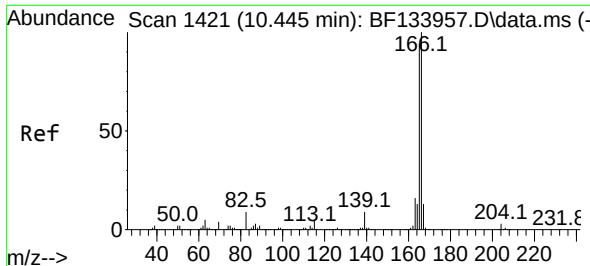
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023



#55
Dibenzofuran
Concen: 9.182 ng
RT: 10.092 min Scan# 1361
Delta R.T. -0.006 min
Lab File: BF133963.D
Acq: 26 Jun 2023 21:03

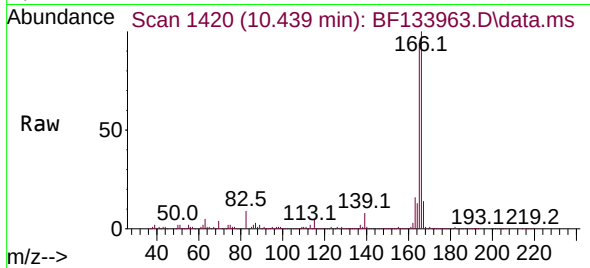
Tgt Ion:168 Resp: 130854
Ion Ratio Lower Upper
168 100
139 37.6 32.0 48.0
169 14.2 10.6 16.0





#58
Fluorene
Concen: 22.017 ng
RT: 10.439 min Scan# 1421
Delta R.T. -0.006 min
Lab File: BF133963.D
Acq: 26 Jun 2023 21:03

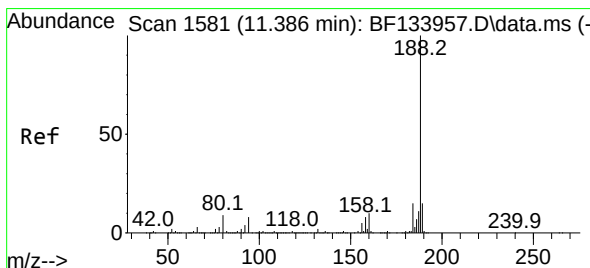
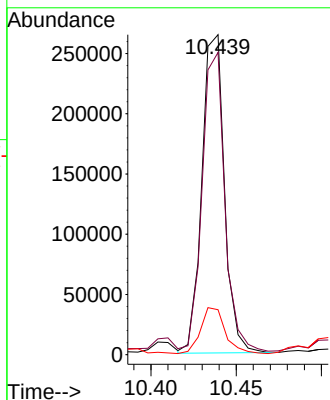
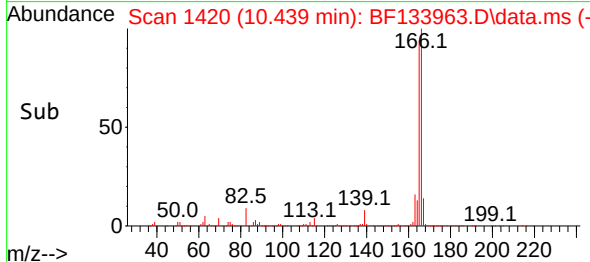
Instrument :
BNA_F
ClientSampleId :
ORA-1650



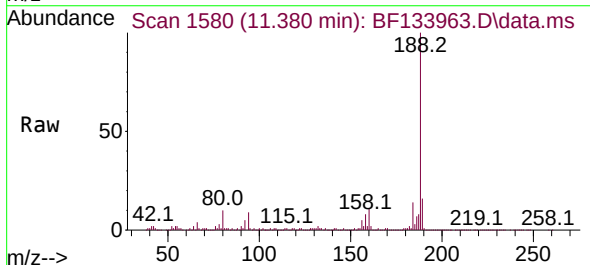
Tgt Ion:166 Resp: 244104
Ion Ratio Lower Upper
166 100
165 94.5 75.0 112.4
167 14.0 10.6 15.8

Manual Integrations
APPROVED

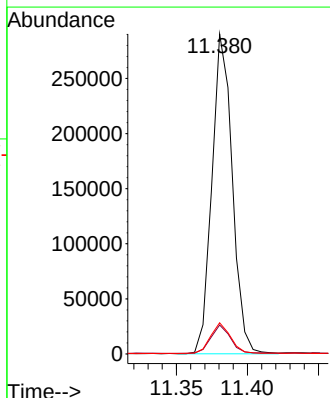
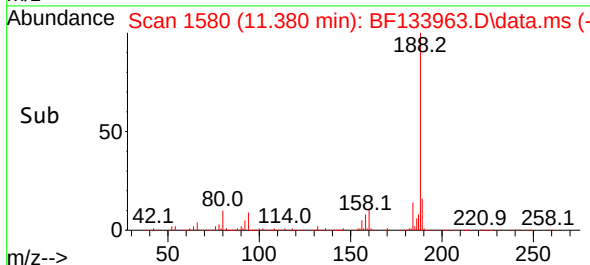
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

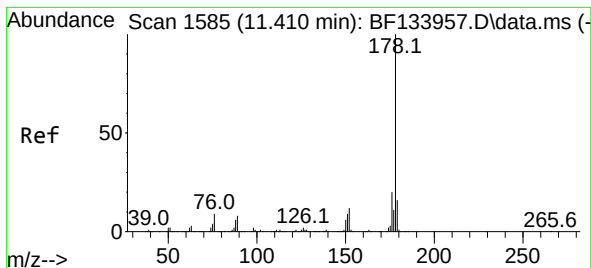


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.380 min Scan# 1580
Delta R.T. -0.006 min
Lab File: BF133963.D
Acq: 26 Jun 2023 21:03



Tgt Ion:188 Resp: 289384
Ion Ratio Lower Upper
188 100
94 9.1 6.4 9.6
80 9.8 7.3 10.9





#71

Phenanthrene

Concen: 124.545 ng

RT: 11.416 min Scan# 1586

Delta R.T. 0.006 min

Lab File: BF133963.D

Acq: 26 Jun 2023 21:03

Instrument :

BNA_F

ClientSampleId :

ORA-1650

Tgt Ion:178 Resp: 1814379

Ion Ratio Lower Upper

178 100

176 20.1 16.0 24.0

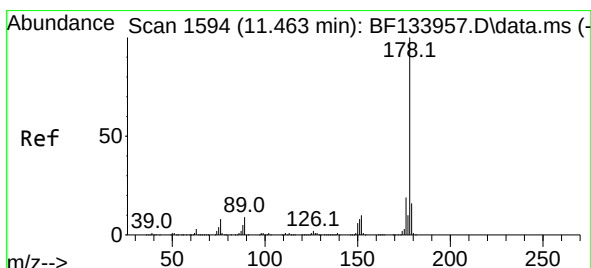
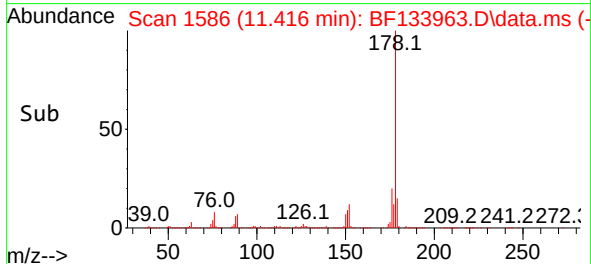
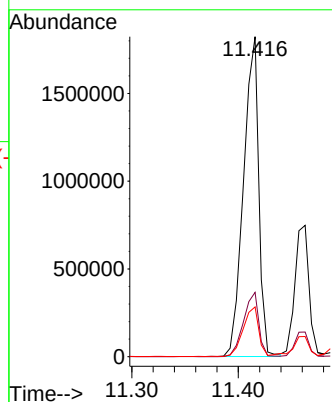
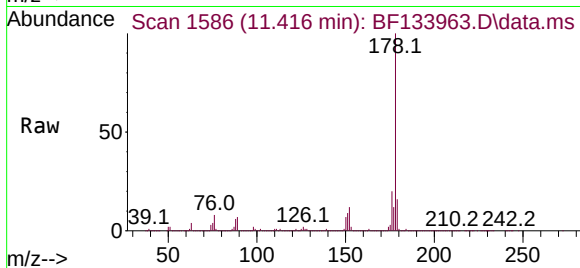
179 15.6 12.4 18.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/27/2023

Supervised By :mohammad ahmed 06/29/2023



#72

Anthracene

Concen: 44.035 ng

RT: 11.463 min Scan# 1594

Delta R.T. 0.000 min

Lab File: BF133963.D

Acq: 26 Jun 2023 21:03

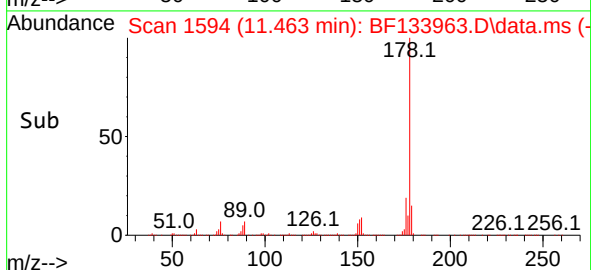
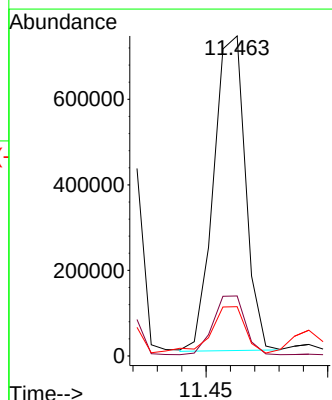
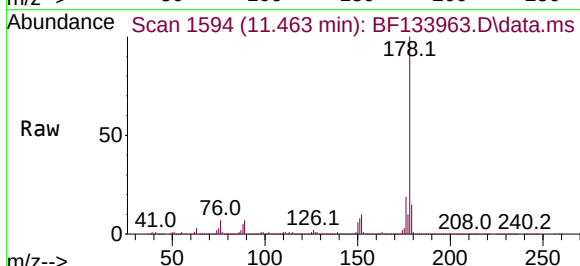
Tgt Ion:178 Resp: 667236

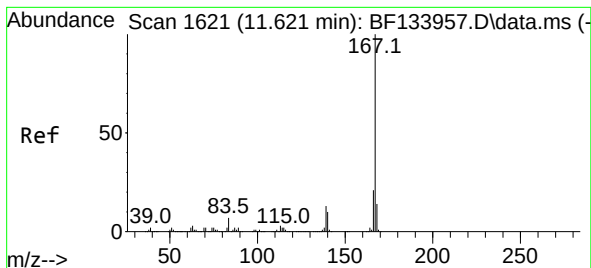
Ion Ratio Lower Upper

178 100

176 18.7 15.3 22.9

179 15.4 12.4 18.6





#73

Carbazole

Concen: 4.995 ng

RT: 11.616 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF133963.D

Acq: 26 Jun 2023 21:03

Instrument :

BNA_F

ClientSampleId :

ORA-1650

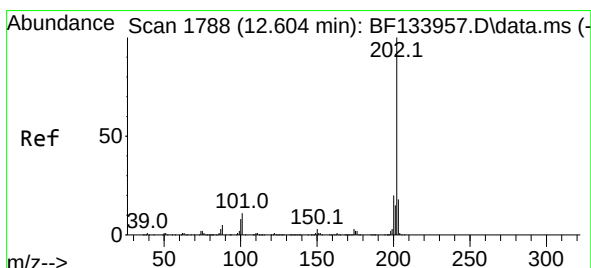
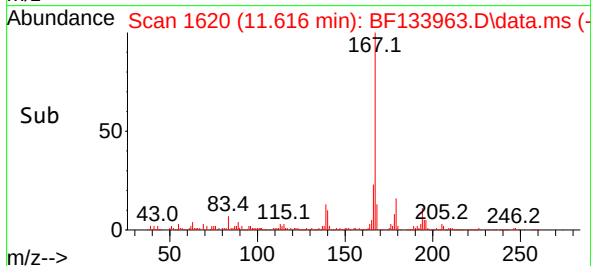
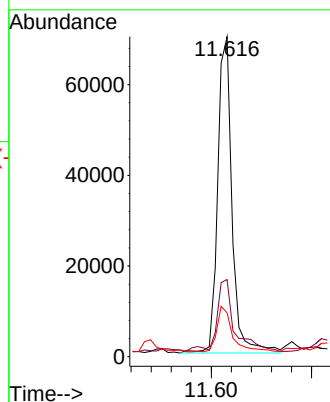
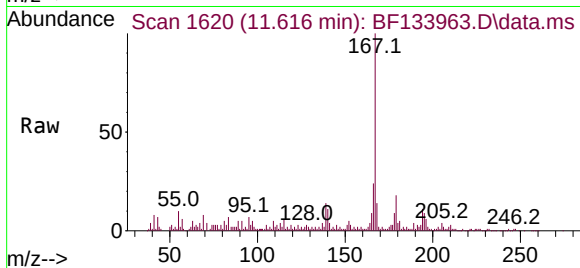
Tgt Ion:167	Resp: 69280
Ion Ratio	Lower Upper
167 100	
166 24.1	17.0 25.6
139 13.7	10.4 15.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/27/2023

Supervised By :mohammad ahmed 06/29/2023



#75

Fluoranthene

Concen: 200.498 ng

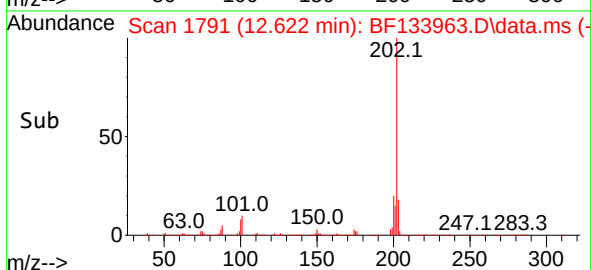
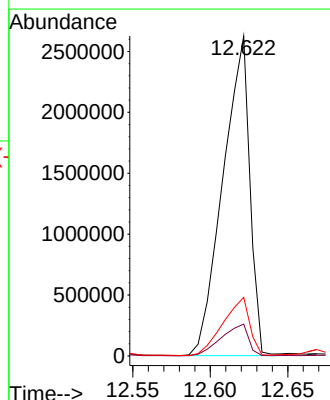
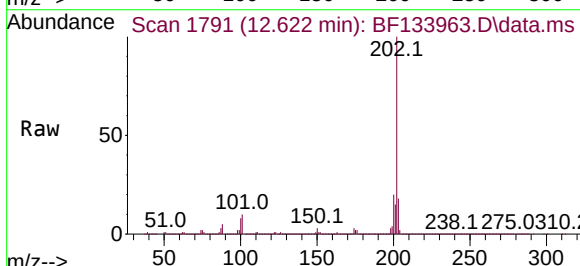
RT: 12.622 min Scan# 1791

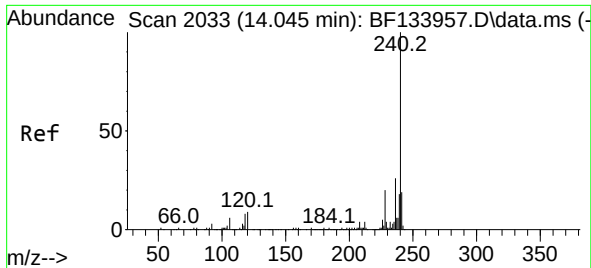
Delta R.T. 0.018 min

Lab File: BF133963.D

Acq: 26 Jun 2023 21:03

Tgt Ion:202	Resp: 3157729
Ion Ratio	Lower Upper
202 100	
101 10.0	0.0 31.0
203 18.3	0.0 37.6





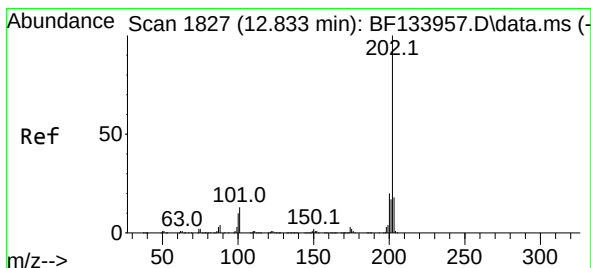
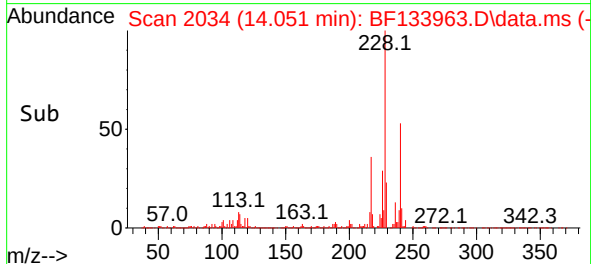
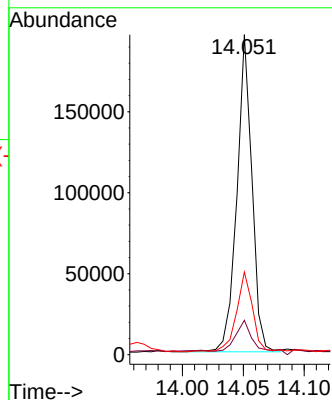
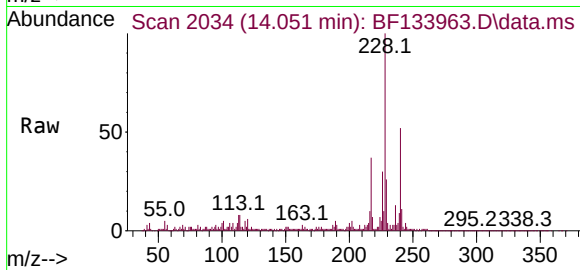
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2034
Delta R.T. 0.006 min
Lab File: BF133963.D
Acq: 26 Jun 2023 21:03

Instrument :
BNA_F
ClientSampleId :
ORA-1650

Tgt Ion:240 Resp: 16857
Ion Ratio Lower Upper
240 100
120 10.8 7.4 11.0
236 25.9 21.0 31.6

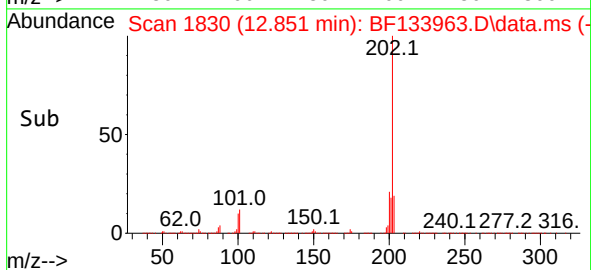
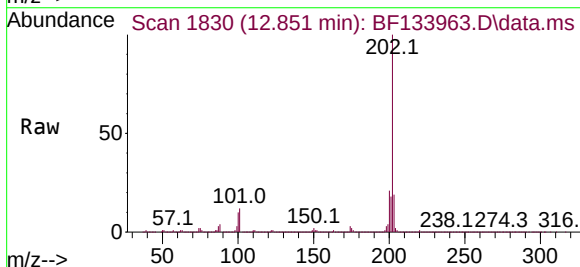
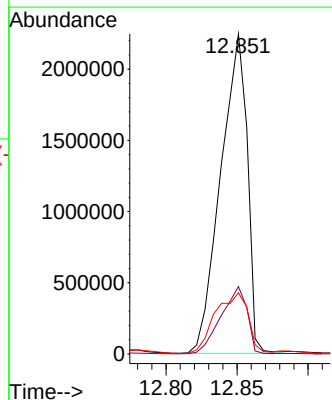
Manual Integrations
APPROVED

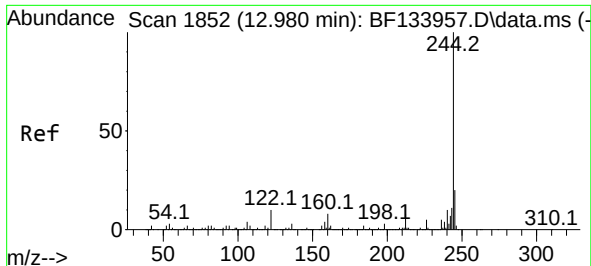
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023



#78
Pyrene
Concen: 186.084 ng
RT: 12.851 min Scan# 1830
Delta R.T. 0.018 min
Lab File: BF133963.D
Acq: 26 Jun 2023 21:03

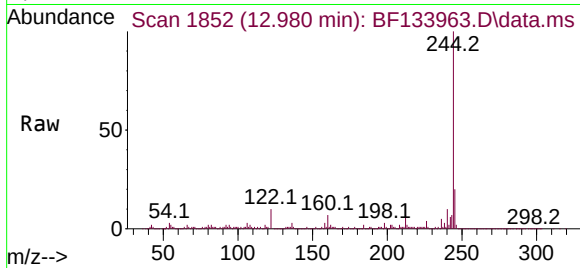
Tgt Ion:202 Resp: 2919321
Ion Ratio Lower Upper
202 100
200 21.0 16.1 24.1
203 19.1 14.3 21.5





#79
 Terphenyl-d14
 Concen: 55.434 ng
 RT: 12.980 min Scan# 1852
 Delta R.T. 0.000 min
 Lab File: BF133963.D
 Acq: 26 Jun 2023 21:03

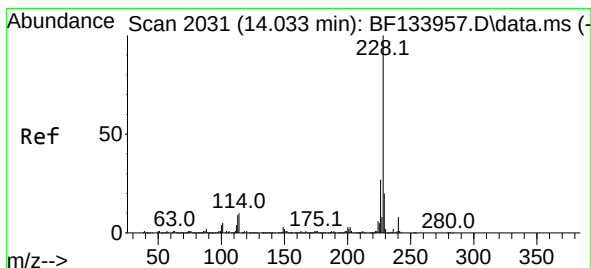
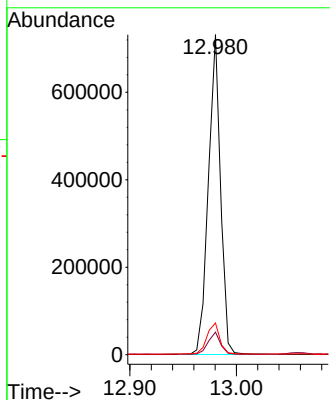
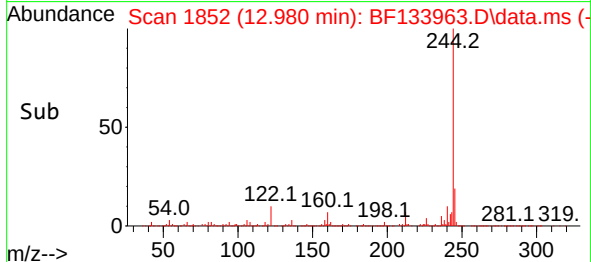
Instrument :
 BNA_F
 ClientSampleId :
 ORA-1650



Tgt Ion:244 Resp: 580634
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.0 9.0
 122 9.9 8.3 12.5

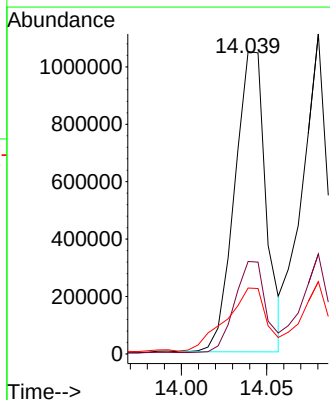
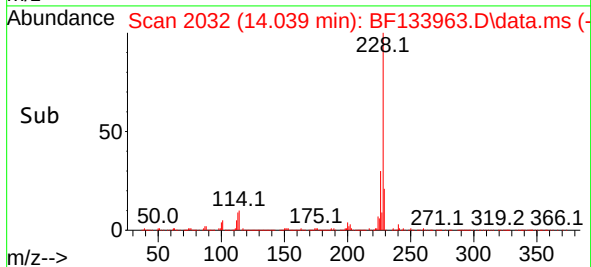
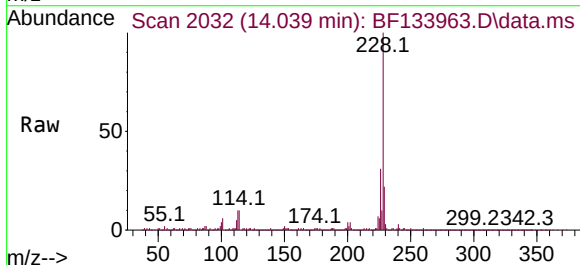
Manual Integrations
 APPROVED

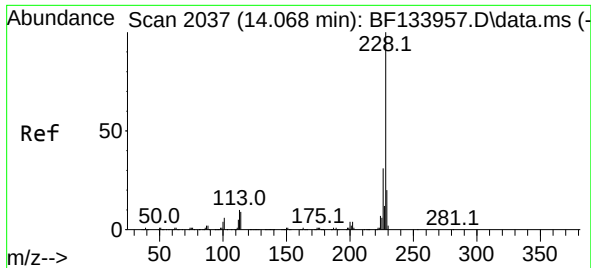
Reviewed By :Yogesh Patel 06/27/2023
 Supervised By :mohammad ahmed 06/29/2023



#81
 Benzo(a)anthracene
 Concen: 114.368 ng
 RT: 14.039 min Scan# 2032
 Delta R.T. 0.006 min
 Lab File: BF133963.D
 Acq: 26 Jun 2023 21:03

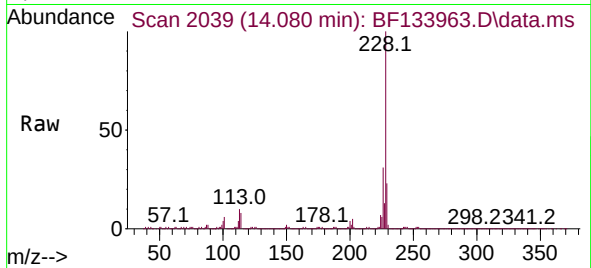
Tgt Ion:228 Resp: 1337078
 Ion Ratio Lower Upper
 228 100
 226 30.6 22.0 33.0
 229 21.8 16.3 24.5





#83
Chrysene
Concen: 100.035 ng
RT: 14.080 min Scan# 2037
Delta R.T. 0.012 min
Lab File: BF133963.D
Acq: 26 Jun 2023 21:03

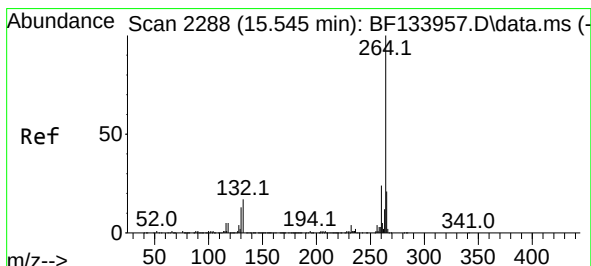
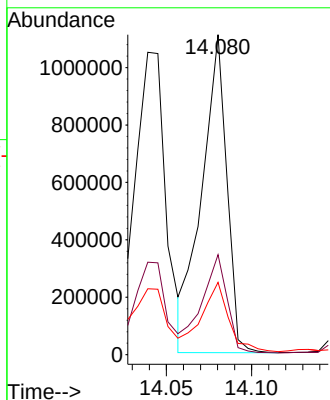
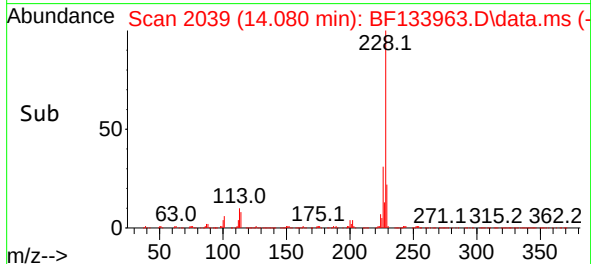
Instrument :
BNA_F
ClientSampleId :
ORA-1650



Tgt Ion:228 Resp: 1132748
Ion Ratio Lower Upper
228 100
226 31.3 24.4 36.6
229 22.6 16.1 24.1

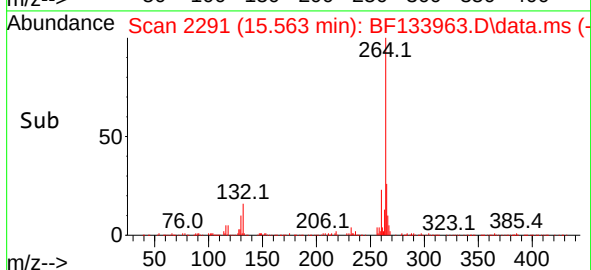
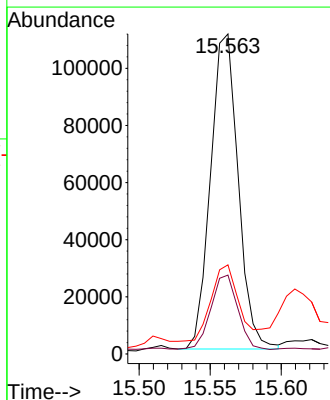
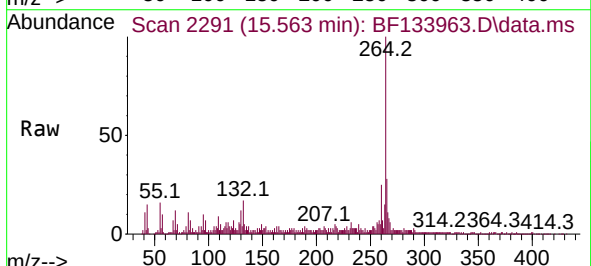
Manual Integrations
APPROVED

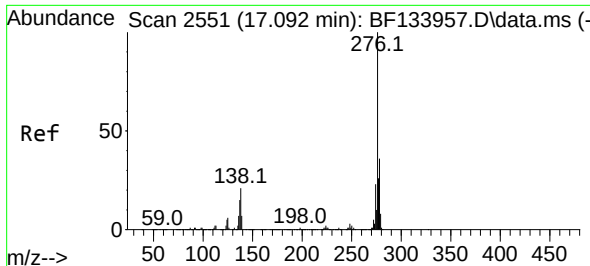
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2291
Delta R.T. 0.018 min
Lab File: BF133963.D
Acq: 26 Jun 2023 21:03

Tgt Ion:264 Resp: 149442
Ion Ratio Lower Upper
264 100
260 24.6 19.5 29.3
265 27.9 16.6 25.0#





#87
Indeno(1,2,3-cd)pyrene
Concen: 54.565 ng
RT: 17.121 min Scan# 211
Delta R.T. 0.030 min
Lab File: BF133963.D
Acq: 26 Jun 2023 21:03

Instrument :

BNA_F

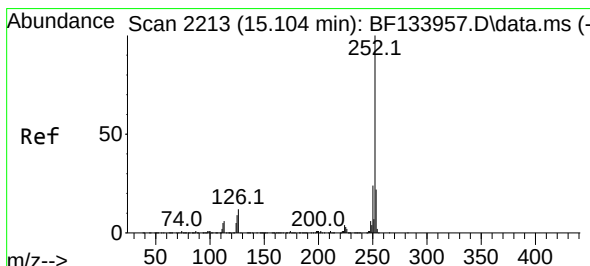
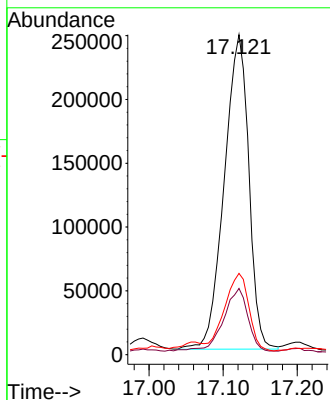
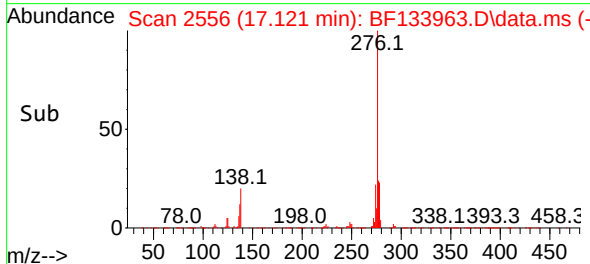
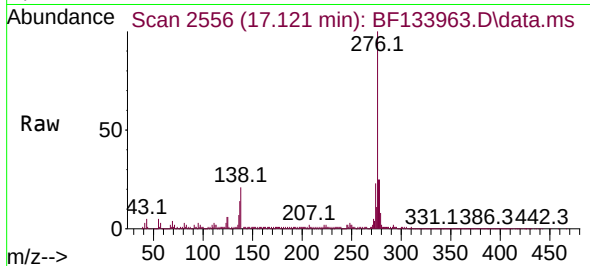
ClientSampleId :

ORA-1650

Tgt Ion:276 Resp: 56582
Ion Ratio Lower Upper
276 100
138 20.2 18.7 28.1
277 24.6 19.9 29.9

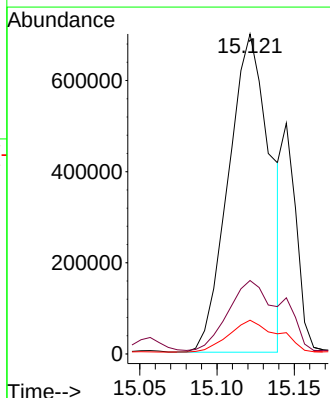
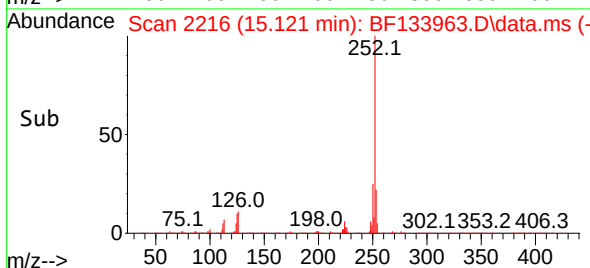
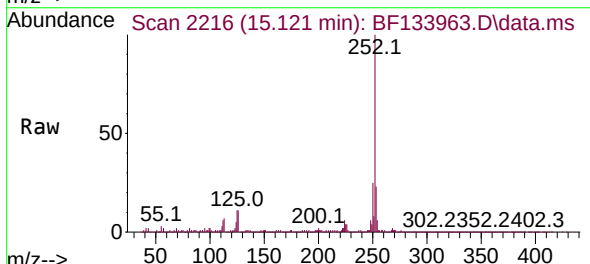
Manual Integrations
APPROVED

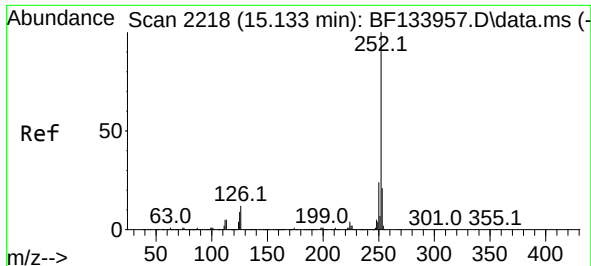
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023



#88
Benzo(b)fluoranthene
Concen: 148.613 ng m
RT: 15.121 min Scan# 2216
Delta R.T. 0.018 min
Lab File: BF133963.D
Acq: 26 Jun 2023 21:03

Tgt Ion:252 Resp: 1305907
Ion Ratio Lower Upper
252 100
253 23.0 17.4 26.0
125 10.5 7.1 10.7





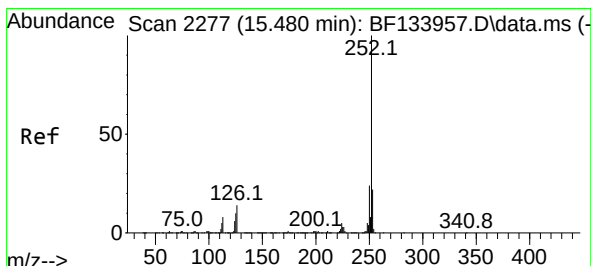
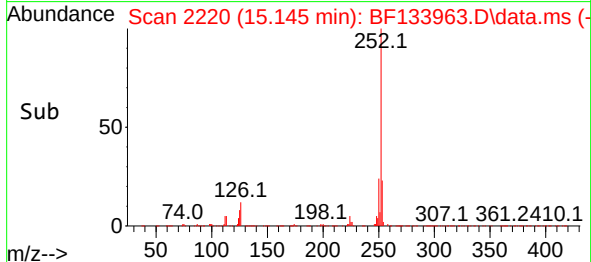
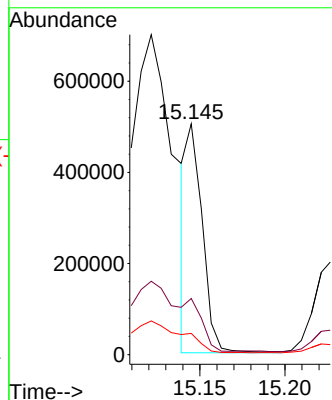
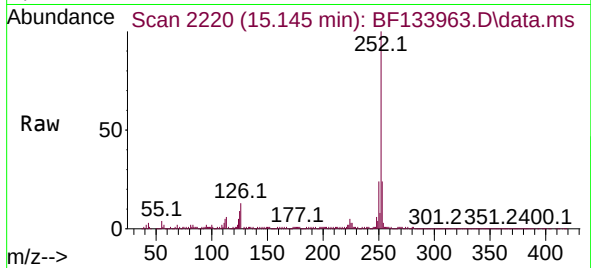
#89
Benzo(k)fluoranthene
Concen: 35.942 ng m
RT: 15.145 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF133963.D
Acq: 26 Jun 2023 21:03

Instrument :
BNA_F
ClientSampleId :
ORA-1650

Tgt Ion:252 Resp: 32156
Ion Ratio Lower Upper
252 100
253 24.3 16.9 25.3
125 9.2 7.4 11.2

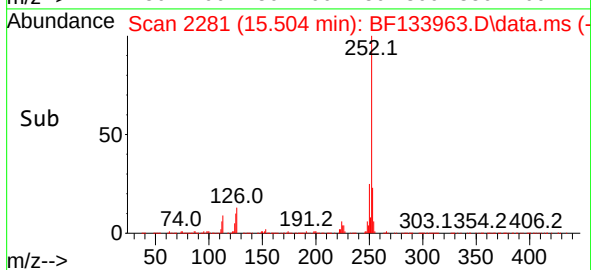
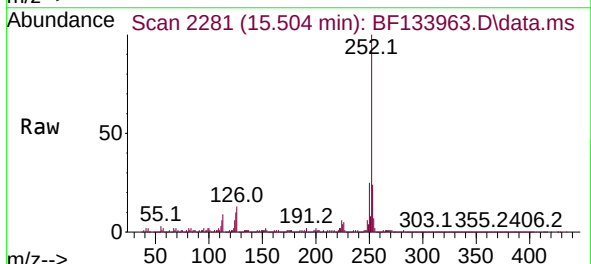
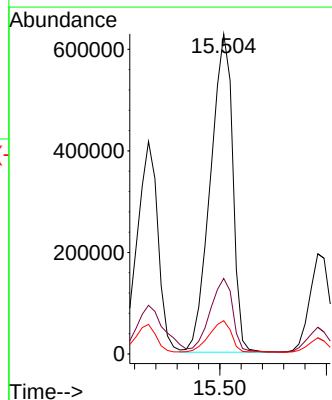
Manual Integrations
APPROVED

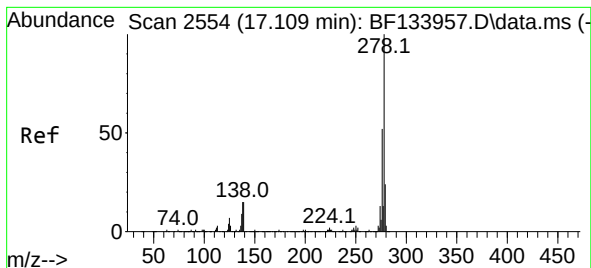
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023



#90
Benzo(a)pyrene
Concen: 106.965 ng
RT: 15.504 min Scan# 2281
Delta R.T. 0.024 min
Lab File: BF133963.D
Acq: 26 Jun 2023 21:03

Tgt Ion:252 Resp: 908909
Ion Ratio Lower Upper
252 100
253 23.6 17.4 26.0
125 10.4 8.4 12.6





#91

Dibenzo(a,h)anthracene

Concen: 16.152 ng m

RT: 17.127 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF133963.D

Acq: 26 Jun 2023 21:03

Instrument :

BNA_F

ClientSampleId :

ORA-1650

Tgt Ion:278 Resp: 136810

Ion Ratio Lower Upper

278 100

139 18.6 12.2 18.4

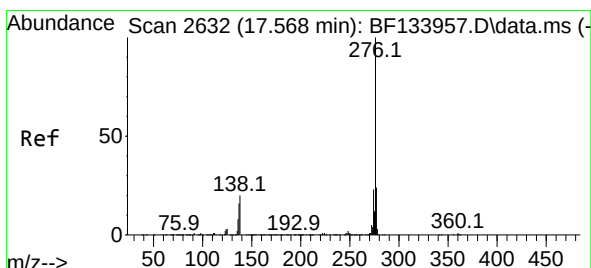
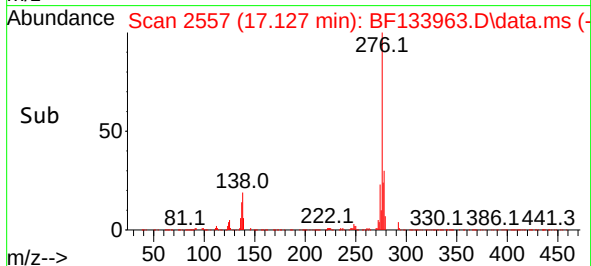
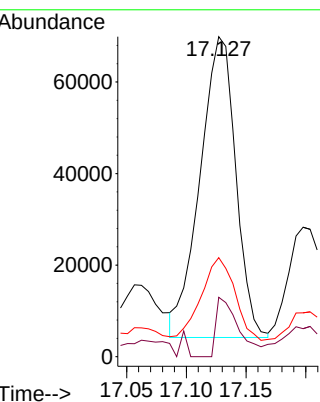
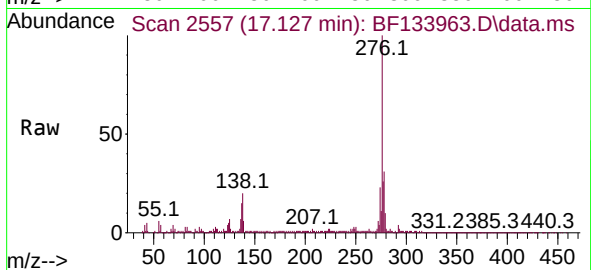
279 30.9 19.4 29.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/27/2023

Supervised By :mohammad ahmed 06/29/2023



#92

Benzo(g,h,i)perylene

Concen: 60.485 ng

RT: 17.598 min Scan# 2637

Delta R.T. 0.030 min

Lab File: BF133963.D

Acq: 26 Jun 2023 21:03

Tgt Ion:276 Resp: 528308

Ion Ratio Lower Upper

276 100

277 23.8 19.0 28.6

138 20.1 16.2 24.2

