

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061223\
 Data File : BF133714.D
 Acq On : 12 Jun 2023 20:42
 Operator : CG\JU
 Sample : 03044-14
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-08-0-2.0

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/13/2023
 Supervised By :mohammad ahmed 06/13/2023

Quant Time: Jun 12 22:11:54 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 12 16:32:43 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.834	152	71758	20.000	ng	0.00
21) Naphthalene-d8	8.116	136	251159	20.000	ng	0.00
39) Acenaphthene-d10	9.869	164	107830	20.000	ng	0.00
64) Phenanthrene-d10	11.363	188	201038	20.000	ng	0.00
76) Chrysene-d12	14.010	240	119679	20.000	ng	0.00
86) Perylene-d12	15.480	264	95848	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	354765	86.069	ng	0.00
7) Phenol-d6	6.457	99	425315	79.271	ng	-0.01
23) Nitrobenzene-d5	7.392	82	277804	60.245	ng	-0.01
42) 2,4,6-Tribromophenol	10.663	330	99447	72.858	ng	0.00
45) 2-Fluorobiphenyl	9.192	172	479052	63.153	ng	0.00
79) Terphenyl-d14	12.951	244	481535	62.258	ng	0.00
Target Compounds						Qvalue
52) Acenaphthene	9.904	154	14064	2.213	ng	92
58) Fluorene	10.416	166	17039	2.298	ng	# 96
71) Phenanthrene	11.386	178	199404	19.550	ng	99
72) Anthracene	11.433	178	48785	4.587	ng	100
75) Fluoranthene	12.580	202	331203	30.578	ng	99
78) Pyrene	12.810	202	321886	28.872	ng	99
81) Benzo(a)anthracene	13.998	228	125156	15.119	ng	96
83) Chrysene	14.033	228	108854m	13.903	ng	
84) Bis(2-ethylhexyl)phtha...	13.986	149	15906	2.745	ng	# 93
87) Indeno(1,2,3-cd)pyrene	16.945	276	48013	7.281	ng	96
88) Benzo(b)fluoranthene	15.051	252	109239m	18.762	ng	
89) Benzo(k)fluoranthene	15.074	252	33562m	5.917	ng	
90) Benzo(a)pyrene	15.416	252	78754	14.574	ng	# 90
91) Dibenzo(a,h)anthracene	16.957	278	11819	2.165	ng	# 58
92) Benzo(g,h,i)perylene	17.392	276	47869	8.844	ng	96

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

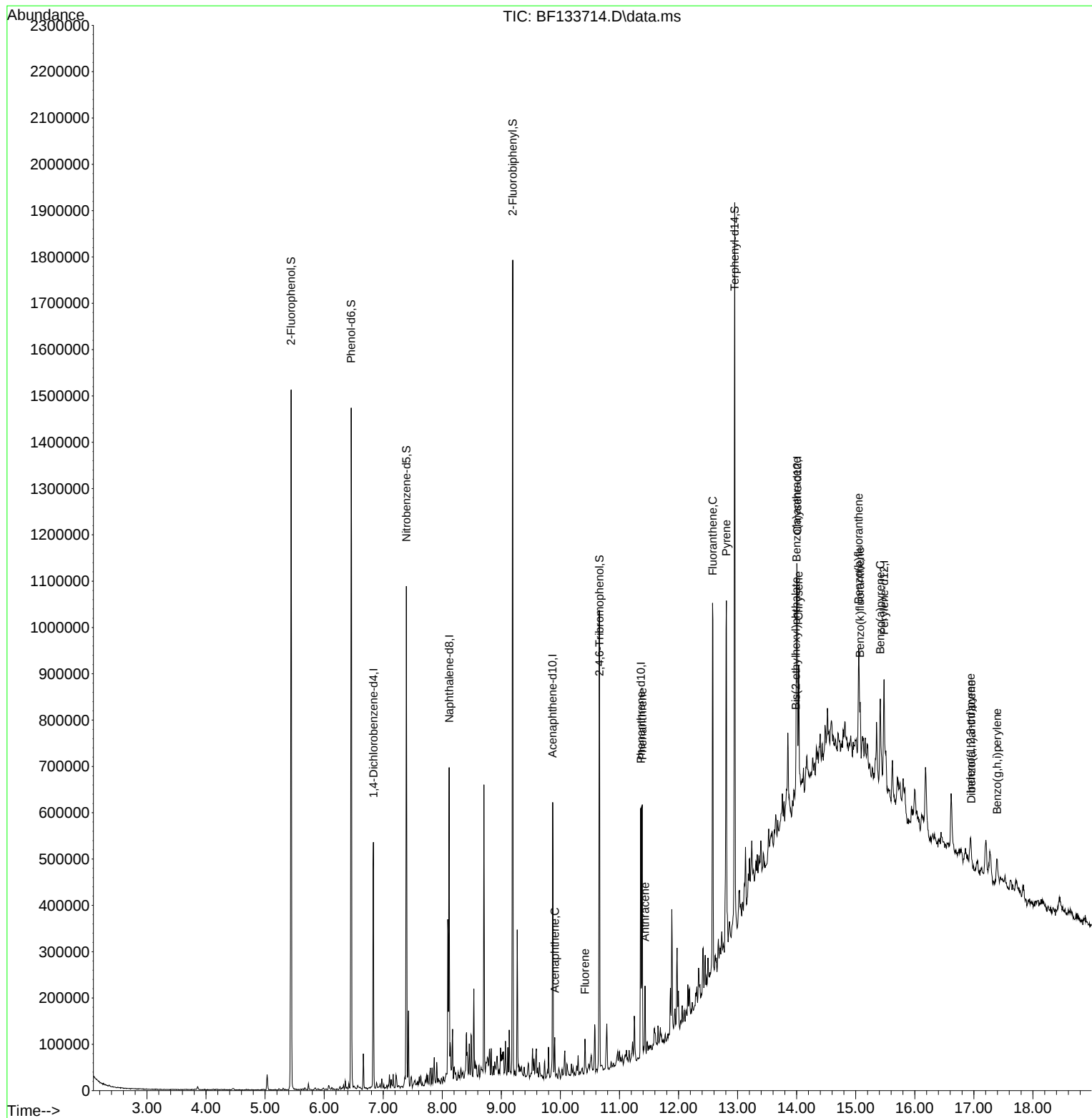
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061223\
 Data File : BF133714.D
 Acq On : 12 Jun 2023 20:42
 Operator : CG\JU
 Sample : 03044-14
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

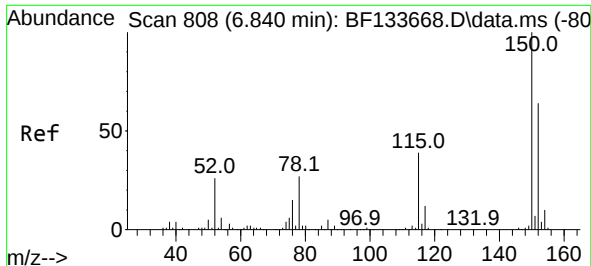
Instrument :
 BNA_F
 ClientSampleId :
 SB-08-0-2.0

Quant Time: Jun 12 22:11:54 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 12 16:32:43 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/13/2023
 Supervised By :mohammad ahmed 06/13/2023





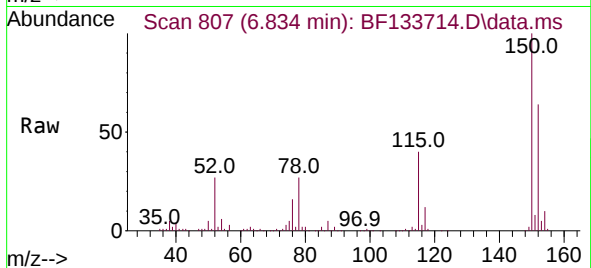
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 808
Delta R.T. -0.000 min
Lab File: BF133714.D
Acq: 12 Jun 2023 20:42

Instrument :

BNA_F

ClientSampleId :

SB-08-0-2.0



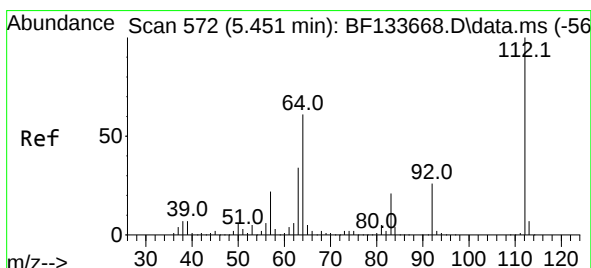
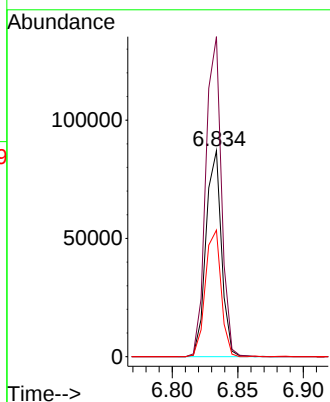
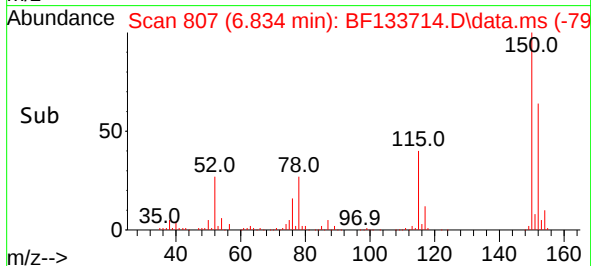
Tgt Ion:152 Resp: 71758
Ion Ratio Lower Upper
152 100
150 155.4 124.3 186.5
115 61.4 48.5 72.7

Manual Integrations

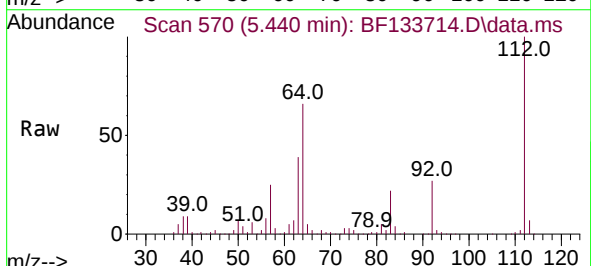
APPROVED

Reviewed By :Yogesh Patel 06/13/2023

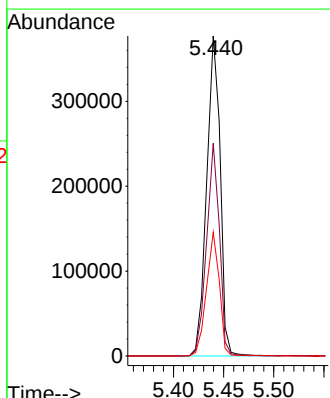
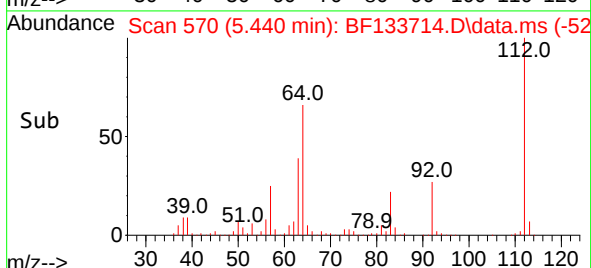
Supervised By :mohammad ahmed 06/13/2023

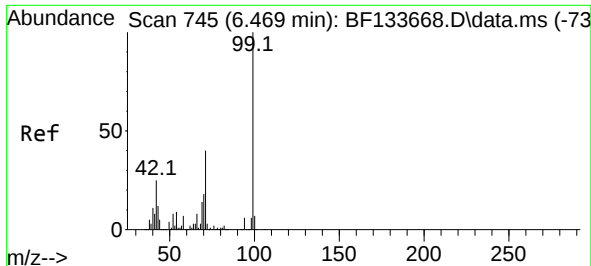


#5
2-Fluorophenol
Concen: 86.069 ng
RT: 5.440 min Scan# 570
Delta R.T. -0.006 min
Lab File: BF133714.D
Acq: 12 Jun 2023 20:42



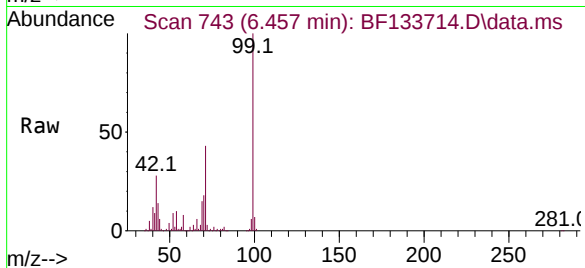
Tgt Ion:112 Resp: 354765
Ion Ratio Lower Upper
112 100
64 66.5 49.0 73.4
63 38.6 26.8 40.2





#7
Phenol-d6
Concen: 79.271 ng
RT: 6.457 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF133714.D
Acq: 12 Jun 2023 20:42

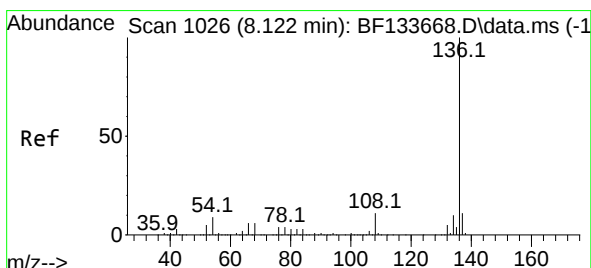
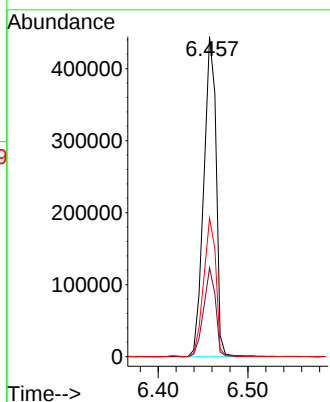
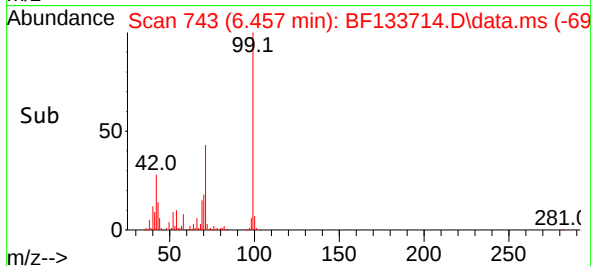
Instrument :
BNA_F
ClientSampleId :
SB-08-0-2.0



Tgt Ion: 99 Resp: 425315
Ion Ratio Lower Upper
99 100
42 27.8 19.9 29.9
71 43.4 32.2 48.4

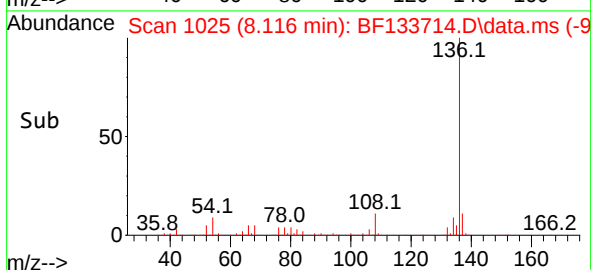
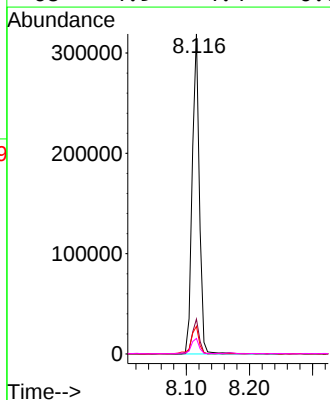
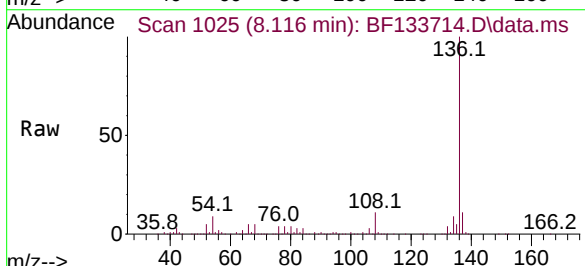
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/13/2023
Supervised By :mohammad ahmed 06/13/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BF133714.D
Acq: 12 Jun 2023 20:42

Tgt Ion:136 Resp: 251159
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 8.6 7.4 11.0
68 4.9 4.4 6.6





#23

Nitrobenzene-d5

Concen: 60.245 ng

RT: 7.392 min Scan# 905

Delta R.T. -0.012 min

Lab File: BF133714.D

Acq: 12 Jun 2023 20:42

Instrument :

BNA_F

ClientSampleId :

SB-08-0-2.0

Tgt Ion: 82 Resp: 277804

Ion Ratio Lower Upper

82 100

128 39.5 34.2 51.2

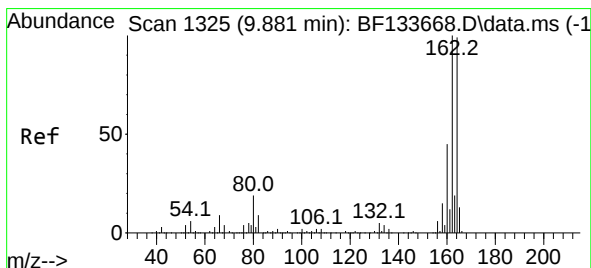
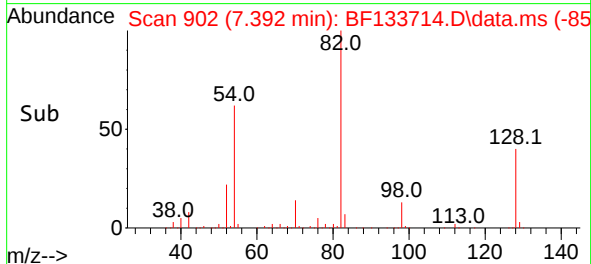
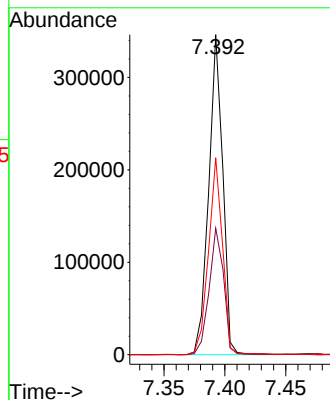
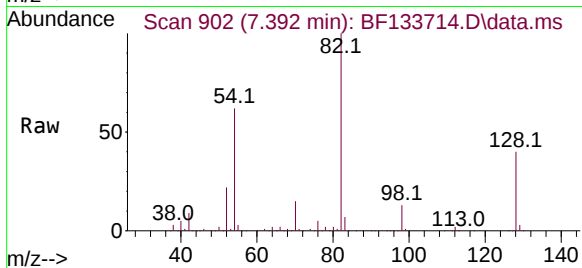
54 61.6 46.5 69.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/13/2023

Supervised By :mohammad ahmed 06/13/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.869 min Scan# 1323

Delta R.T. -0.006 min

Lab File: BF133714.D

Acq: 12 Jun 2023 20:42

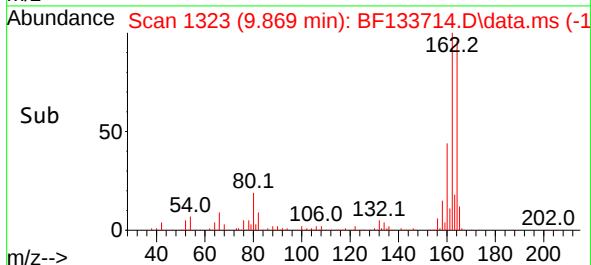
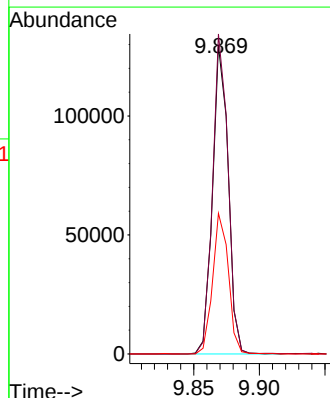
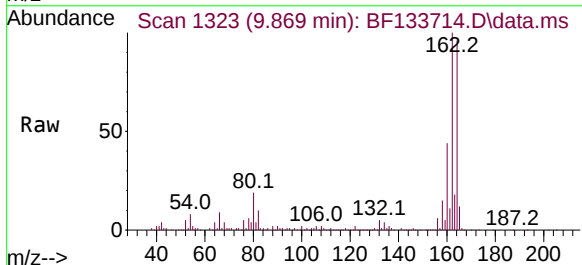
Tgt Ion:164 Resp: 107830

Ion Ratio Lower Upper

164 100

162 103.8 80.8 121.2

160 45.6 36.7 55.1





#42
2,4,6-Tribromophenol
Concen: 72.858 ng
RT: 10.663 min Scan# 1460
Delta R.T. -0.006 min
Lab File: BF133714.D
Acq: 12 Jun 2023 20:42

Instrument :

BNA_F

ClientSampleId :

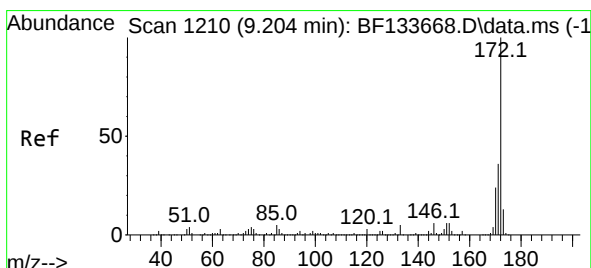
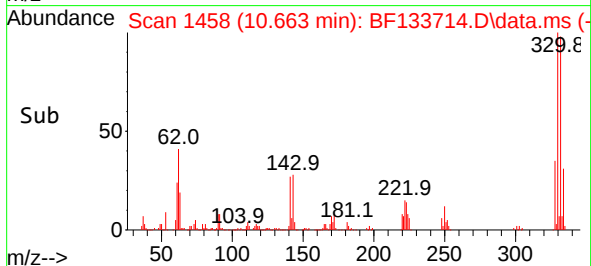
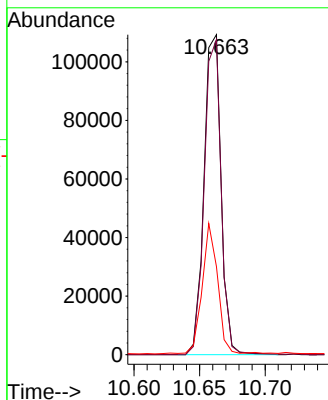
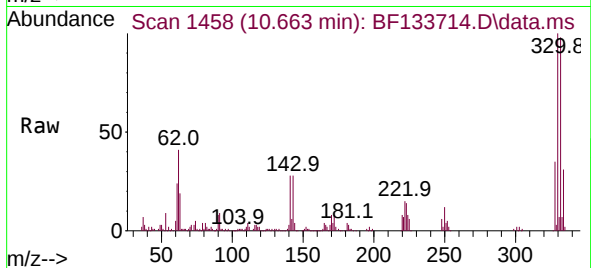
SB-08-0-2.0

Tgt Ion:330 Resp: 9944
Ion Ratio Lower Upper
330 100
332 97.0 77.2 115.8
141 36.7 24.9 37.3

Manual Integrations

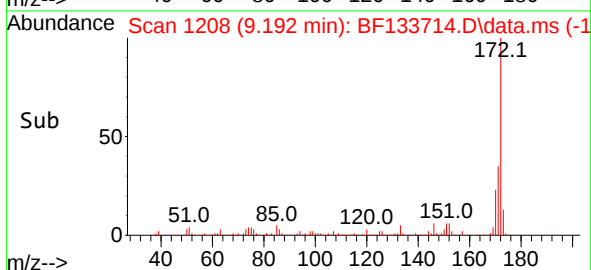
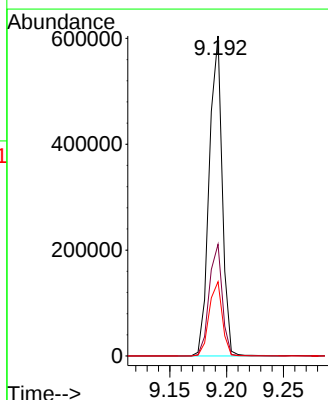
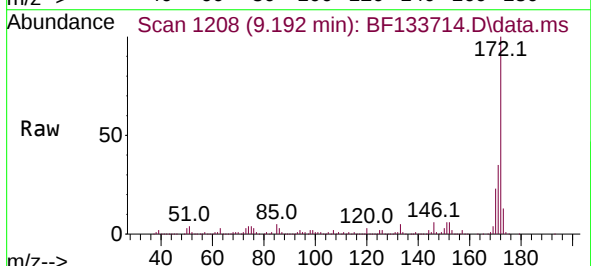
APPROVED

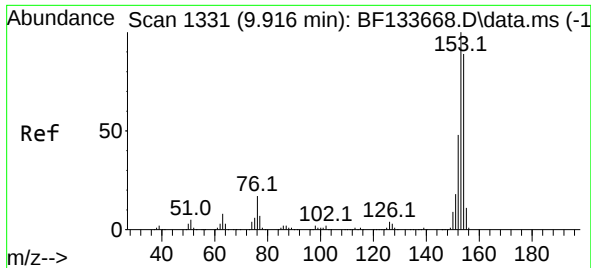
Reviewed By :Yogesh Patel 06/13/2023
Supervised By :mohammad ahmed 06/13/2023



#45
2-Fluorobiphenyl
Concen: 63.153 ng
RT: 9.192 min Scan# 1208
Delta R.T. -0.006 min
Lab File: BF133714.D
Acq: 12 Jun 2023 20:42

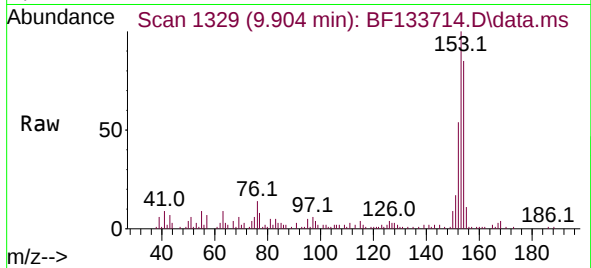
Tgt Ion:172 Resp: 479052
Ion Ratio Lower Upper
172 100
171 34.9 28.6 43.0
170 23.2 19.1 28.7





#52
Acenaphthene
Concen: 2.213 ng
RT: 9.904 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133714.D
Acq: 12 Jun 2023 20:42

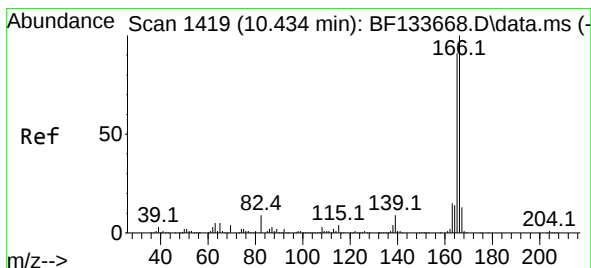
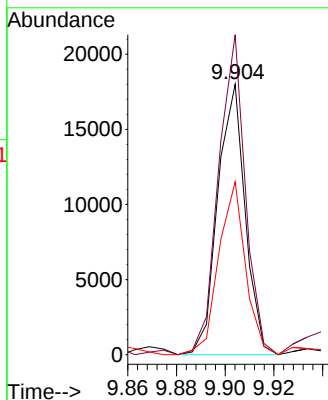
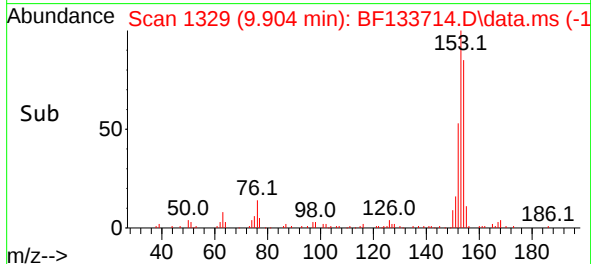
Instrument :
BNA_F
ClientSampleId :
SB-08-0-2.0



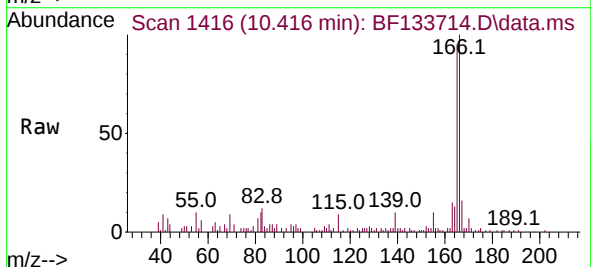
Tgt Ion:154 Resp: 1406
Ion Ratio Lower Upper
154 100
153 118.3 89.8 134.8
152 63.9 43.4 65.2

Manual Integrations
APPROVED

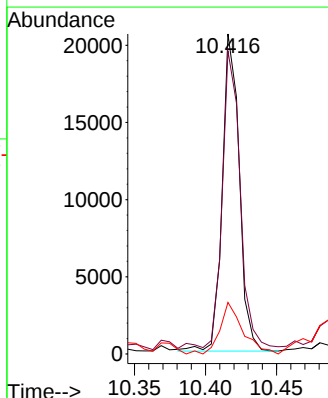
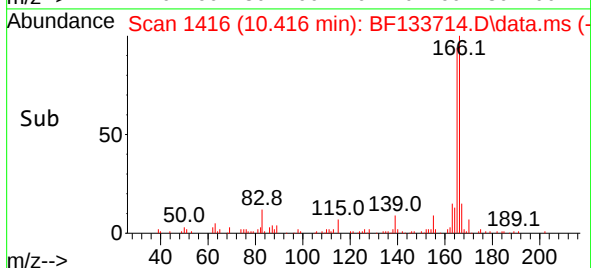
Reviewed By :Yogesh Patel 06/13/2023
Supervised By :mohammad ahmed 06/13/2023

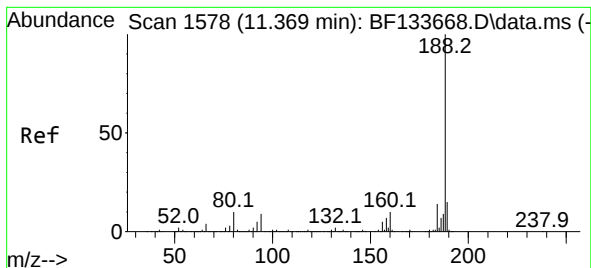


#58
Fluorene
Concen: 2.298 ng
RT: 10.416 min Scan# 1416
Delta R.T. -0.012 min
Lab File: BF133714.D
Acq: 12 Jun 2023 20:42



Tgt Ion:166 Resp: 17039
Ion Ratio Lower Upper
166 100
165 94.7 73.1 109.7
167 16.1 10.5 15.7#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.363 min Scan# 1578

Delta R.T. 0.000 min

Lab File: BF133714.D

Acq: 12 Jun 2023 20:42

Instrument :

BNA_F

ClientSampleId :

SB-08-0-2.0

Tgt Ion:188 Resp: 201038

Ion Ratio Lower Upper

188 100

94 7.9 6.8 10.2

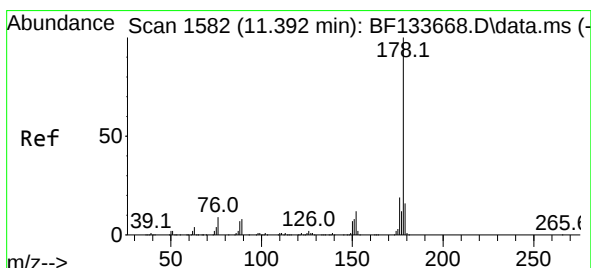
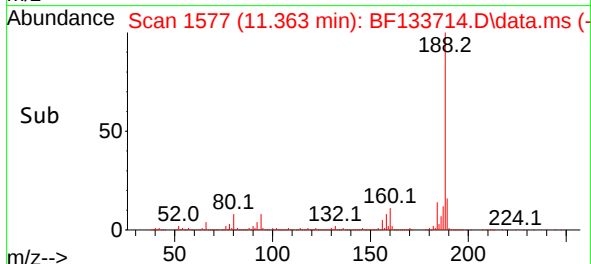
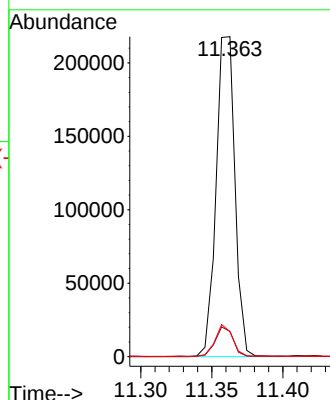
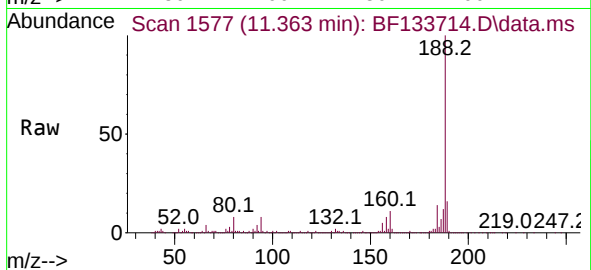
80 7.8 7.8 11.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/13/2023

Supervised By :mohammad ahmed 06/13/2023



#71

Phenanthrene

Concen: 19.550 ng

RT: 11.386 min Scan# 1581

Delta R.T. -0.006 min

Lab File: BF133714.D

Acq: 12 Jun 2023 20:42

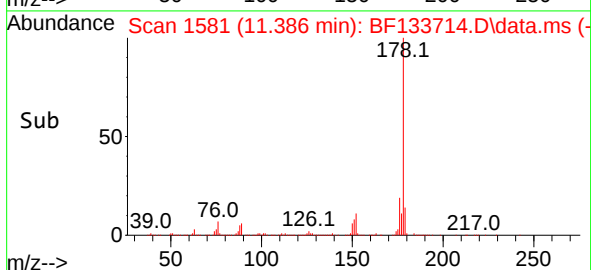
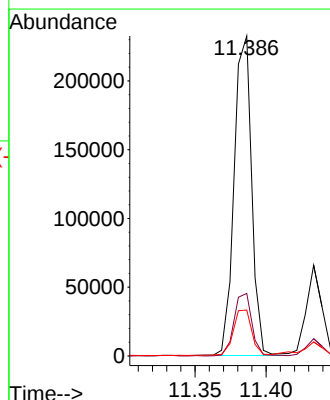
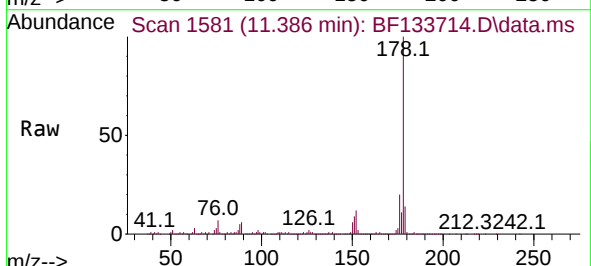
Tgt Ion:178 Resp: 199404

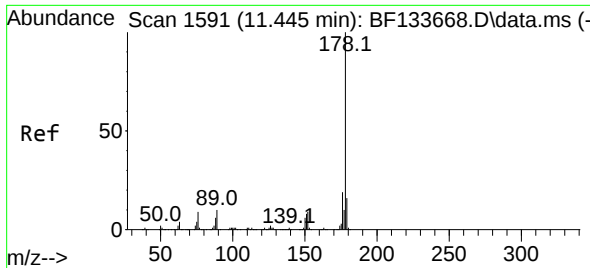
Ion Ratio Lower Upper

178 100

176 19.5 15.6 23.4

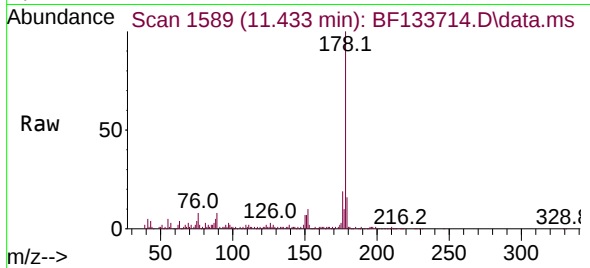
179 14.4 12.4 18.6





#72
 Anthracene
 Concen: 4.587 ng
 RT: 11.433 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF133714.D
 Acq: 12 Jun 2023 20:42

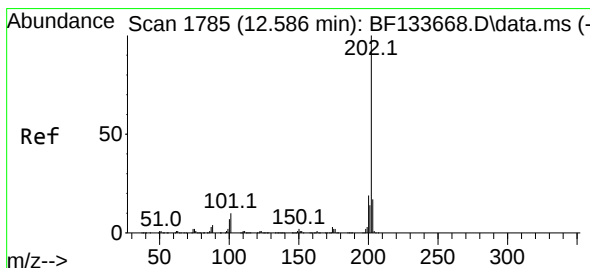
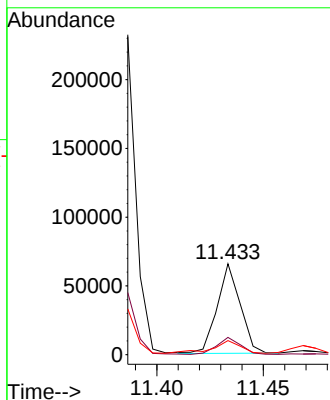
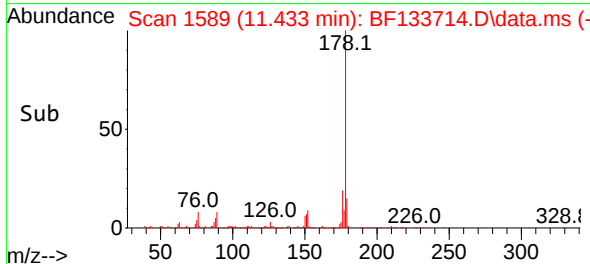
Instrument :
 BNA_F
 ClientSampleId :
 SB-08-0-2.0



Tgt Ion:178 Resp: 48785
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.1 22.7
 179 15.6 12.6 18.8

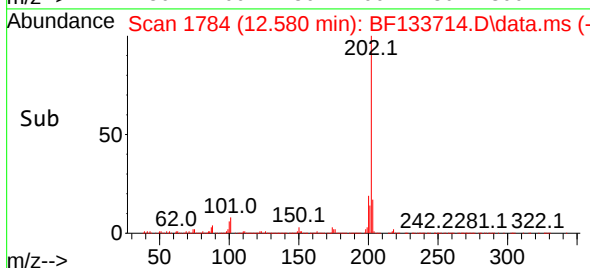
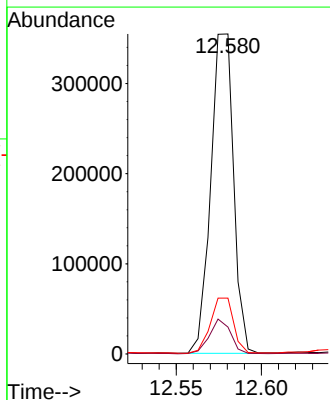
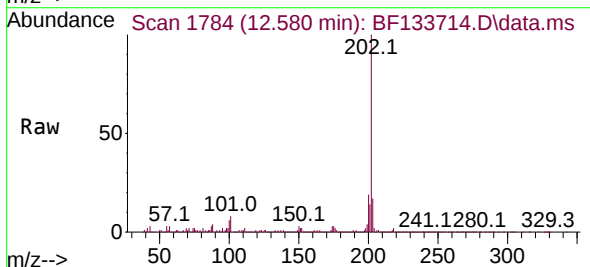
Manual Integrations
 APPROVED

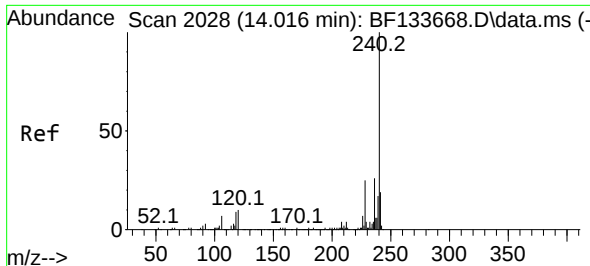
Reviewed By :Yogesh Patel 06/13/2023
 Supervised By :mohammad ahmed 06/13/2023



#75
 Fluoranthene
 Concen: 30.578 ng
 RT: 12.580 min Scan# 1784
 Delta R.T. 0.000 min
 Lab File: BF133714.D
 Acq: 12 Jun 2023 20:42

Tgt Ion:202 Resp: 331203
 Ion Ratio Lower Upper
 202 100
 101 8.4 0.0 29.6
 203 17.4 0.0 37.4





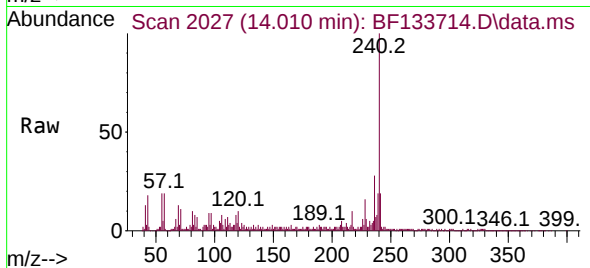
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.010 min Scan# 2028
Delta R.T. -0.006 min
Lab File: BF133714.D
Acq: 12 Jun 2023 20:42

Instrument :

BNA_F

ClientSampleId :

SB-08-0-2.0

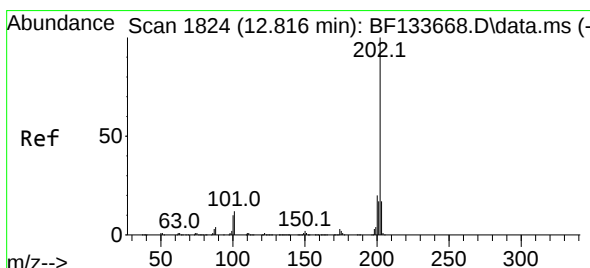
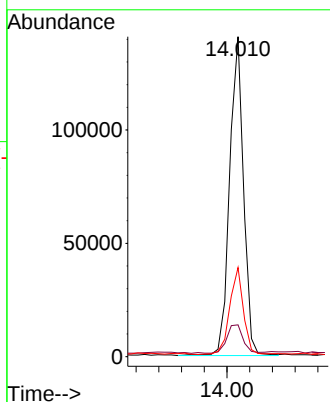
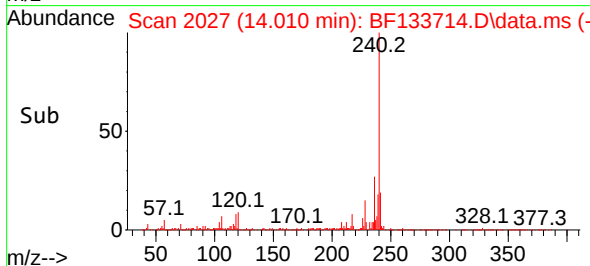


Tgt Ion:240 Resp: 119679
Ion Ratio Lower Upper
240 100
120 10.0 8.1 12.1
236 27.9 20.5 30.7

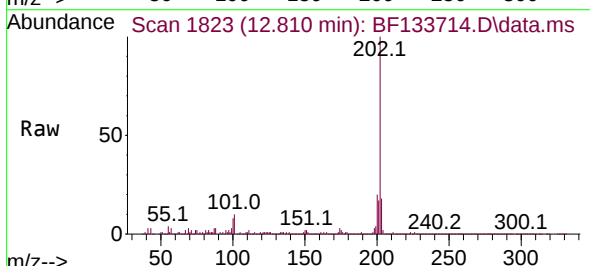
Manual Integrations

APPROVED

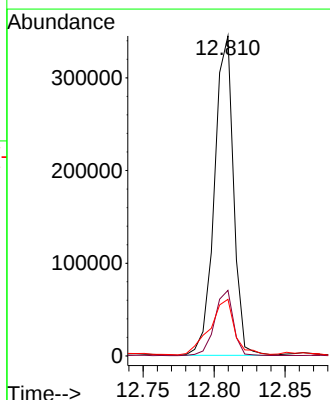
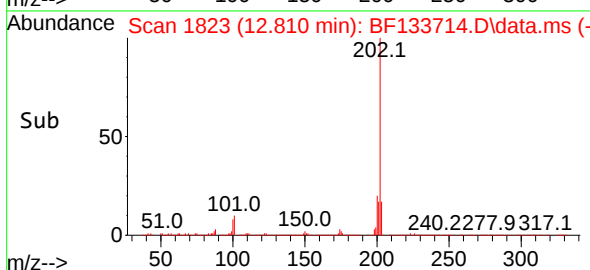
Reviewed By :Yogesh Patel 06/13/2023
Supervised By :mohammad ahmed 06/13/2023

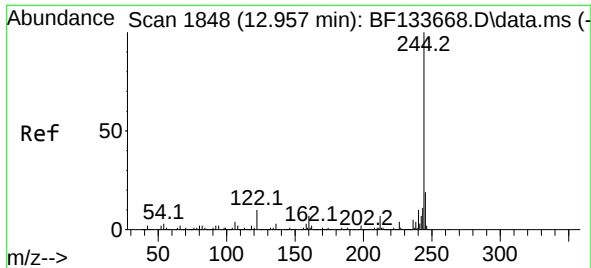


#78
Pyrene
Concen: 28.872 ng
RT: 12.810 min Scan# 1823
Delta R.T. 0.000 min
Lab File: BF133714.D
Acq: 12 Jun 2023 20:42



Tgt Ion:202 Resp: 321886
Ion Ratio Lower Upper
202 100
200 20.5 16.2 24.2
203 17.7 13.9 20.9





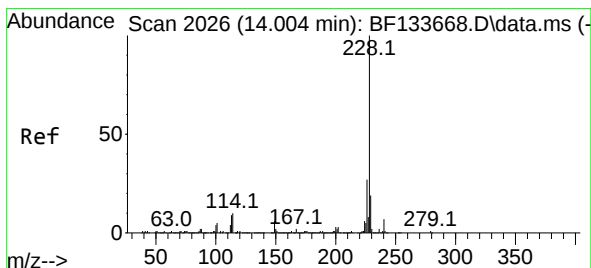
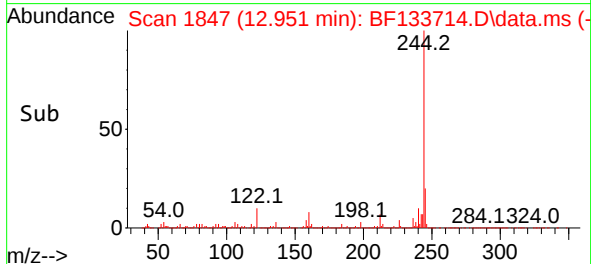
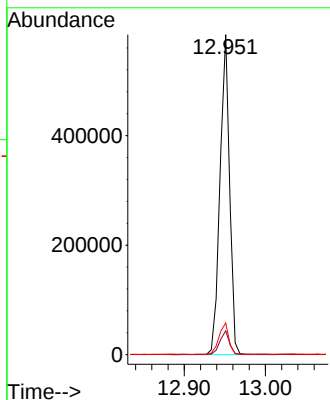
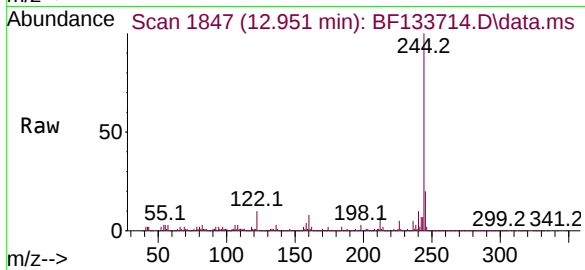
#79
Terphenyl-d14
Concen: 62.258 ng
RT: 12.951 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133714.D
Acq: 12 Jun 2023 20:42

Instrument :
BNA_F
ClientSampleId :
SB-08-0-2.0

Tgt Ion:244 Resp: 48153
Ion Ratio Lower Upper
244 100
212 7.4 5.4 8.2
122 9.9 8.1 12.1

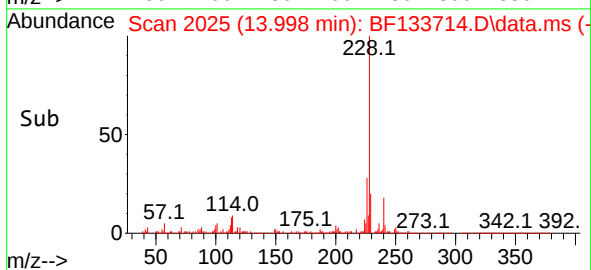
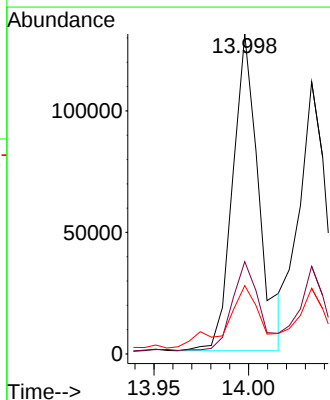
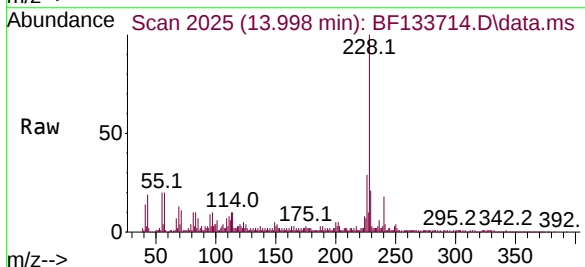
Manual Integrations
APPROVED

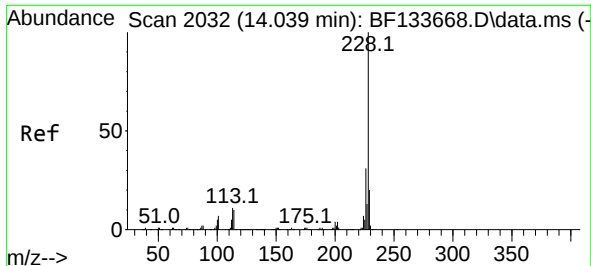
Reviewed By :Yogesh Patel 06/13/2023
Supervised By :mohammad ahmed 06/13/2023



#81
Benzo(a)anthracene
Concen: 15.119 ng
RT: 13.998 min Scan# 2025
Delta R.T. -0.006 min
Lab File: BF133714.D
Acq: 12 Jun 2023 20:42

Tgt Ion:228 Resp: 125156
Ion Ratio Lower Upper
228 100
226 28.9 21.7 32.5
229 21.4 15.4 23.2





#83
Chrysene
Concen: 13.903 ng m
RT: 14.033 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF133714.D
Acq: 12 Jun 2023 20:42

Instrument :

BNA_F

ClientSampleId :

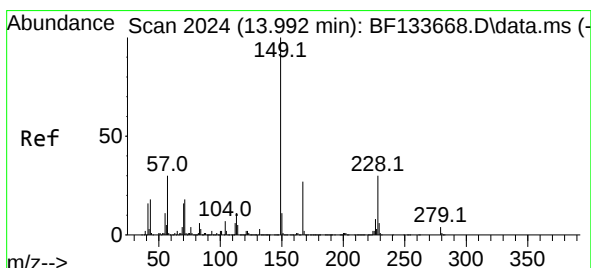
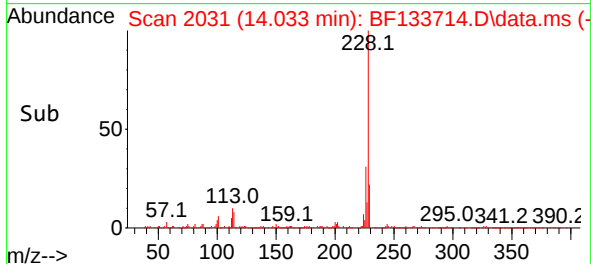
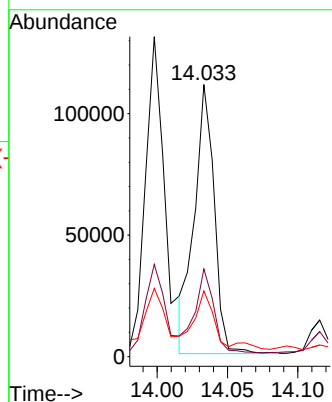
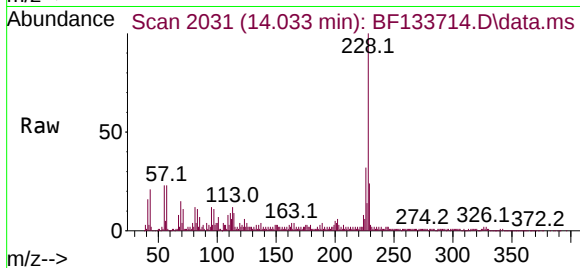
SB-08-0-2.0

Tgt Ion:228 Resp: 108854
Ion Ratio Lower Upper
228 100
226 32.2 25.0 37.6
229 24.1 15.8 23.8

Manual Integrations

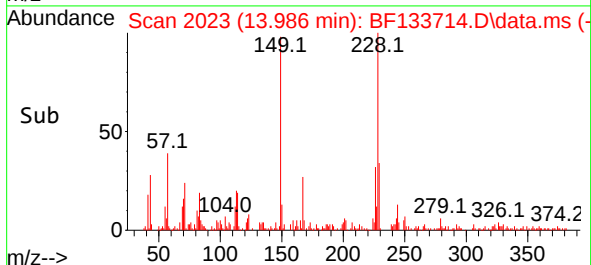
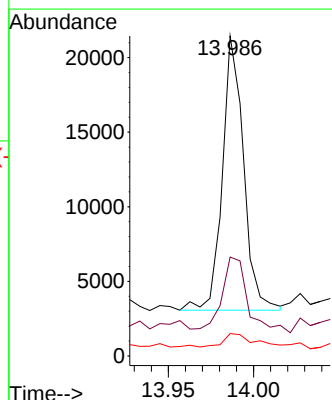
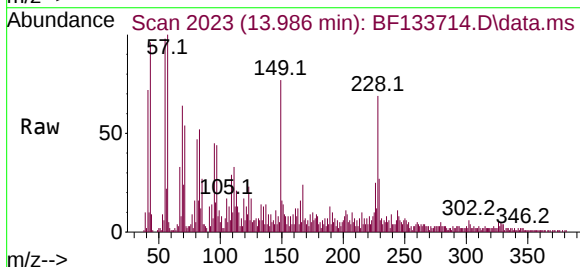
APPROVED

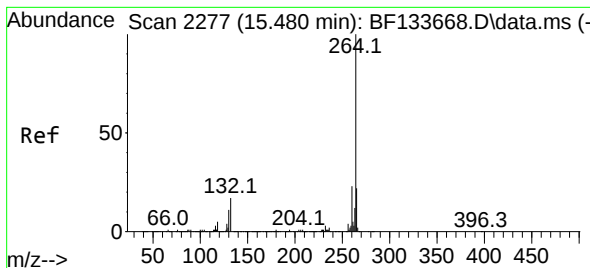
Reviewed By :Yogesh Patel 06/13/2023
Supervised By :mohammad ahmed 06/13/2023



#84
Bis(2-ethylhexyl)phthalate
Concen: 2.745 ng
RT: 13.986 min Scan# 2023
Delta R.T. -0.006 min
Lab File: BF133714.D
Acq: 12 Jun 2023 20:42

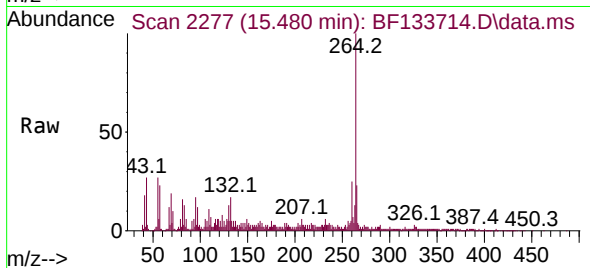
Tgt Ion:149 Resp: 15906
Ion Ratio Lower Upper
149 100
167 30.9 21.8 32.8
279 7.0 3.3 4.9





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.480 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF133714.D
Acq: 12 Jun 2023 20:42

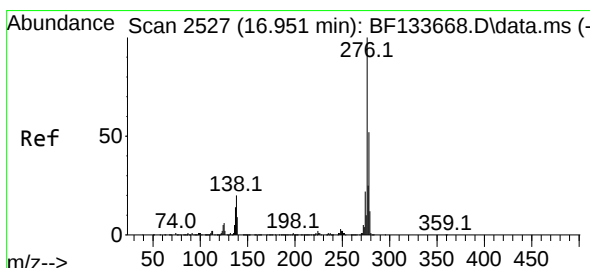
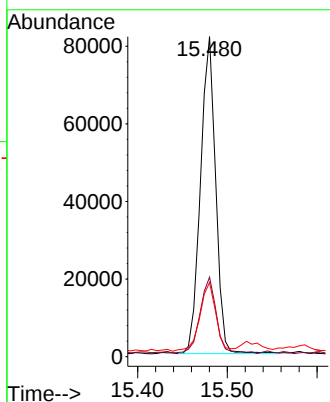
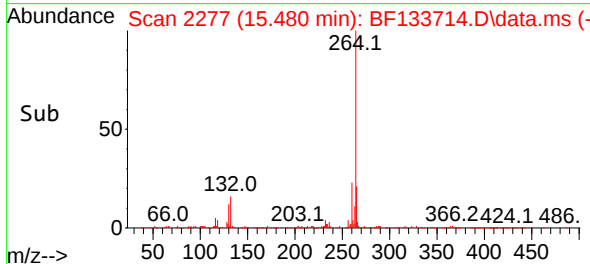
Instrument :
BNA_F
ClientSampleId :
SB-08-0-2.0



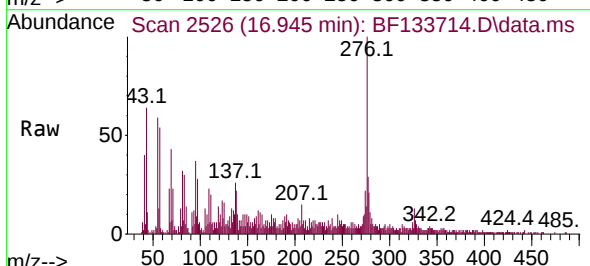
Tgt Ion:264 Resp: 9584
Ion Ratio Lower Upper
264 100
260 24.9 18.2 27.2
265 23.2 17.8 26.6

Manual Integrations
APPROVED

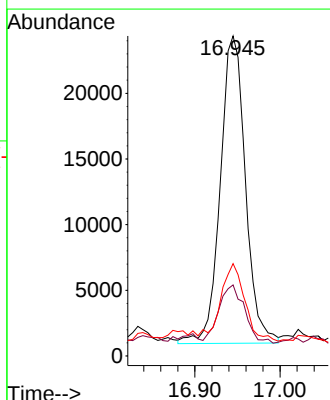
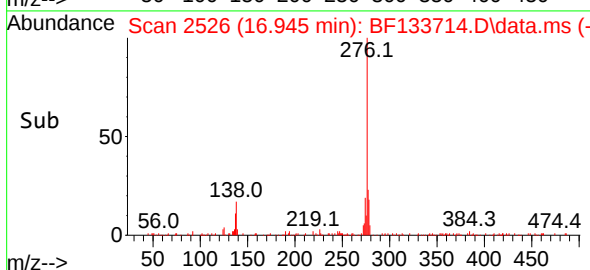
Reviewed By :Yogesh Patel 06/13/2023
Supervised By :mohammad ahmed 06/13/2023

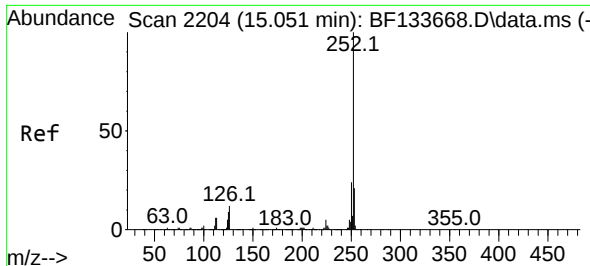


#87
Indeno(1,2,3-cd)pyrene
Concen: 7.281 ng
RT: 16.945 min Scan# 2526
Delta R.T. 0.000 min
Lab File: BF133714.D
Acq: 12 Jun 2023 20:42



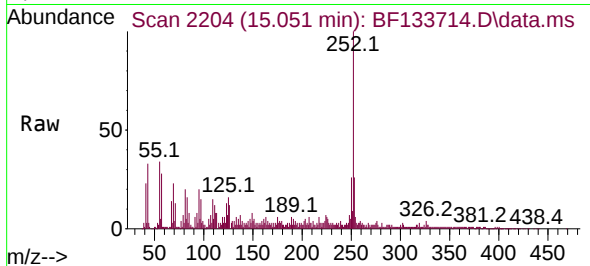
Tgt Ion:276 Resp: 48013
Ion Ratio Lower Upper
276 100
138 19.4 17.9 26.9
277 24.8 20.3 30.5





#88
Benzo(b)fluoranthene
Concen: 18.762 ng m
RT: 15.051 min Scan# 2204
Delta R.T. 0.000 min
Lab File: BF133714.D
Acq: 12 Jun 2023 20:42

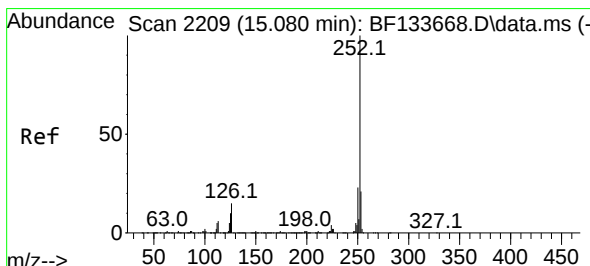
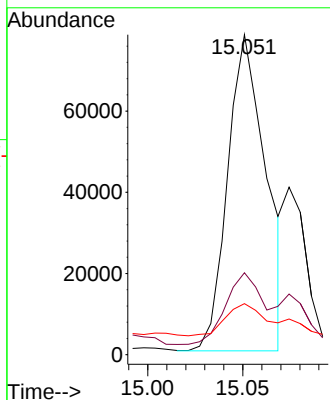
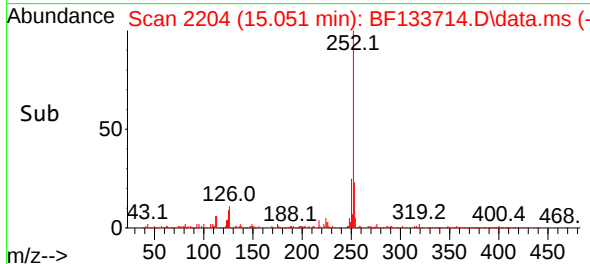
Instrument :
BNA_F
ClientSampleId :
SB-08-0-2.0



Tgt Ion:252 Resp: 109239
Ion Ratio Lower Upper
252 100
253 25.6 17.0 25.6#
125 15.9 7.3 10.9#

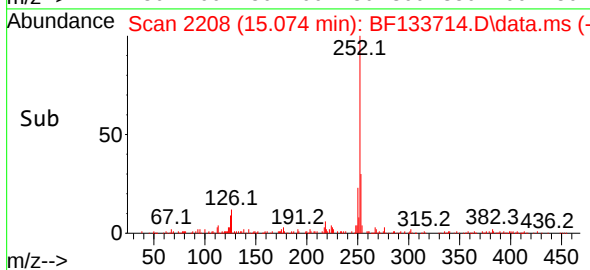
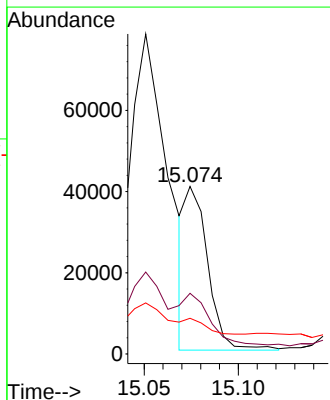
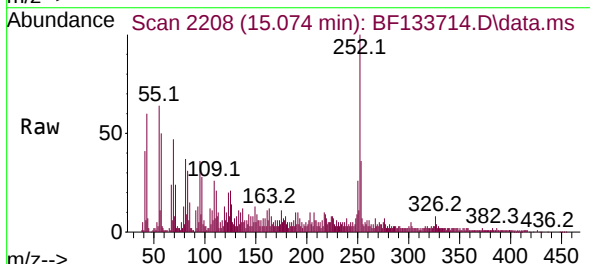
Manual Integrations
APPROVED

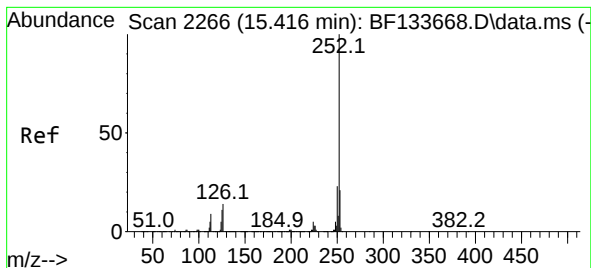
Reviewed By :Yogesh Patel 06/13/2023
Supervised By :mohammad ahmed 06/13/2023



#89
Benzo(k)fluoranthene
Concen: 5.917 ng m
RT: 15.074 min Scan# 2208
Delta R.T. -0.006 min
Lab File: BF133714.D
Acq: 12 Jun 2023 20:42

Tgt Ion:252 Resp: 33562
Ion Ratio Lower Upper
252 100
253 36.3 17.0 25.4#
125 21.4 7.8 11.6#





#90

Benzo(a)pyrene

Concen: 14.574 ng

RT: 15.416 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF133714.D

Acq: 12 Jun 2023 20:42

Instrument :

BNF

ClientSampleId :

SB-08-0-2.0

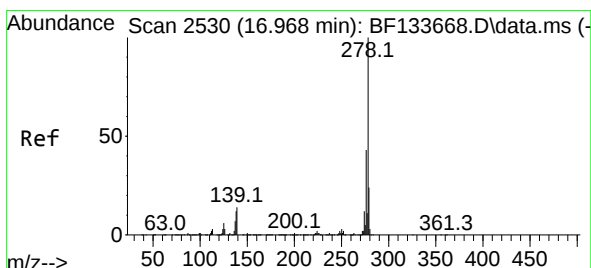
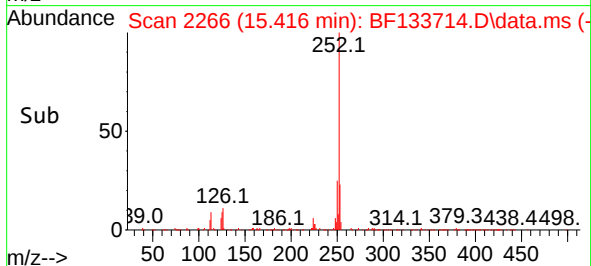
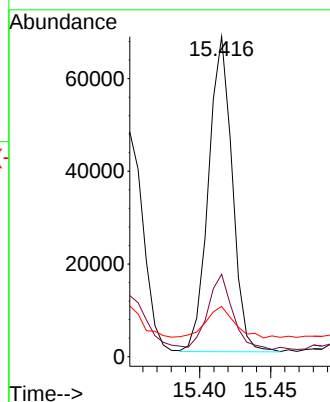
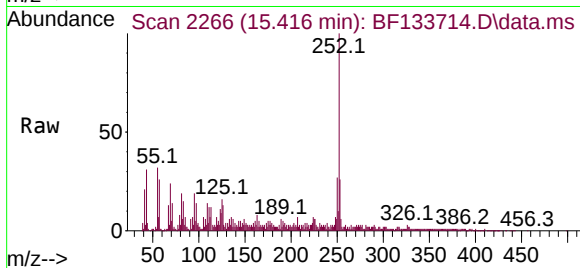
Tgt Ion:	252	Resp:	78754
Ion Ratio	Lower	Upper	
252	100		
253	25.8	17.1	25.7
125	15.7	8.6	13.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/13/2023

Supervised By :mohammad ahmed 06/13/2023



#91

Dibenzo(a,h)anthracene

Concen: 2.165 ng

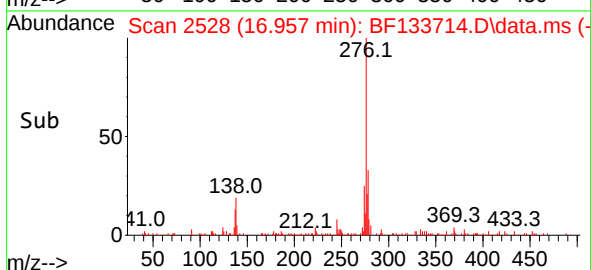
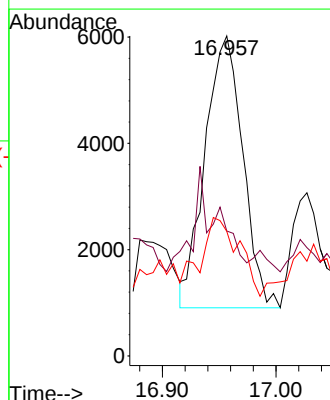
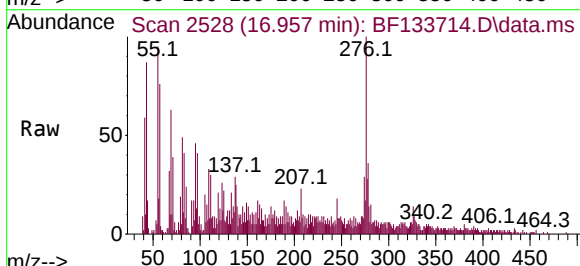
RT: 16.957 min Scan# 2528

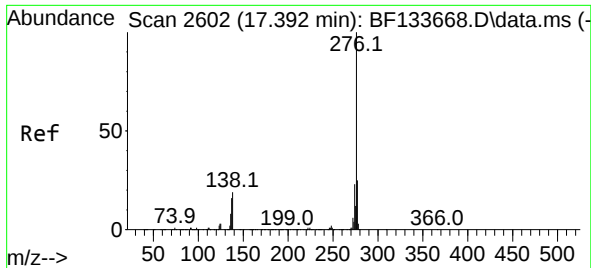
Delta R.T. -0.006 min

Lab File: BF133714.D

Acq: 12 Jun 2023 20:42

Tgt Ion:	278	Resp:	11819
Ion Ratio	Lower	Upper	
278	100		
139	39.0	11.4	17.2
279	39.0	19.0	28.4





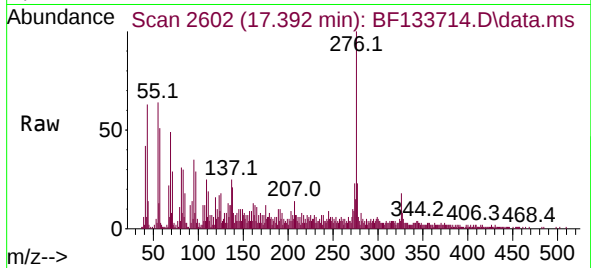
#92
 Benzo(g,h,i)perylene
 Concen: 8.844 ng
 RT: 17.392 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: BF133714.D
 Acq: 12 Jun 2023 20:42

Instrument :

BNA_F

ClientSampleId :

SB-08-0-2.0



Tgt Ion:276 Resp: 47869
 Ion Ratio Lower Upper
 276 100
 277 22.9 19.8 29.8
 138 21.1 15.0 22.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/13/2023

Supervised By :mohammad ahmed 06/13/2023

