

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082823\
 Data File : BF134961.D
 Acq On : 28 Aug 2023 11:12
 Operator : CG\JU
 Sample : 04110-12
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-15(2-3)

Quant Time: Aug 29 03:47:17 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 28 02:45:19 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/29/2023
 Supervised By :mohammad ahmed 08/29/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	104981	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	407240	20.000	ng	0.00
39) Acenaphthene-d10	9.827	164	205816	20.000	ng	0.00
64) Phenanthrene-d10	11.322	188	398528	20.000	ng	0.00
76) Chrysene-d12	13.980	240	245579	20.000	ng	0.00
86) Perylene-d12	15.457	264	265624	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	387832	58.911	ng	0.00
7) Phenol-d6	6.422	99	520880	61.919	ng	-0.02
23) Nitrobenzene-d5	7.351	82	362721	49.080	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	139652	57.612	ng	0.00
45) 2-Fluorobiphenyl	9.145	172	665782	50.007	ng	-0.01
79) Terphenyl-d14	12.916	244	751271	42.076	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.092	128	74037	3.641	ng	99
37) 2-Methylnaphthalene	8.781	142	43815	3.231	ng	97
38) 1-Methylnaphthalene	8.880	142	36121	2.849	ng	94
49) Acenaphthylene	9.686	152	61496	3.291	ng	97
71) Phenanthrene	11.345	178	246291	11.794	ng	99
73) Carbazole	11.551	167	44846	2.543	ng	99
75) Fluoranthene	12.545	202	707910	35.776	ng	99
78) Pyrene	12.774	202	708942	27.227	ng	99
81) Benzo(a)anthracene	13.968	228	301478m	17.993	ng	
83) Chrysene	14.004	228	373407	22.587	ng	98
87) Indeno(1,2,3-cd)pyrene	16.951	276	325780	17.158	ng	95
88) Benzo(b)fluoranthene	15.027	252	644812m	43.027	ng	
89) Benzo(k)fluoranthene	15.051	252	180165m	12.243	ng	
90) Benzo(a)pyrene	15.392	252	407654	27.248	ng	97
91) Dibenzo(a,h)anthracene	16.956	278	76897	5.006	ng	# 82
92) Benzo(g,h,i)perylene	17.409	276	279142	17.750	ng	98

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

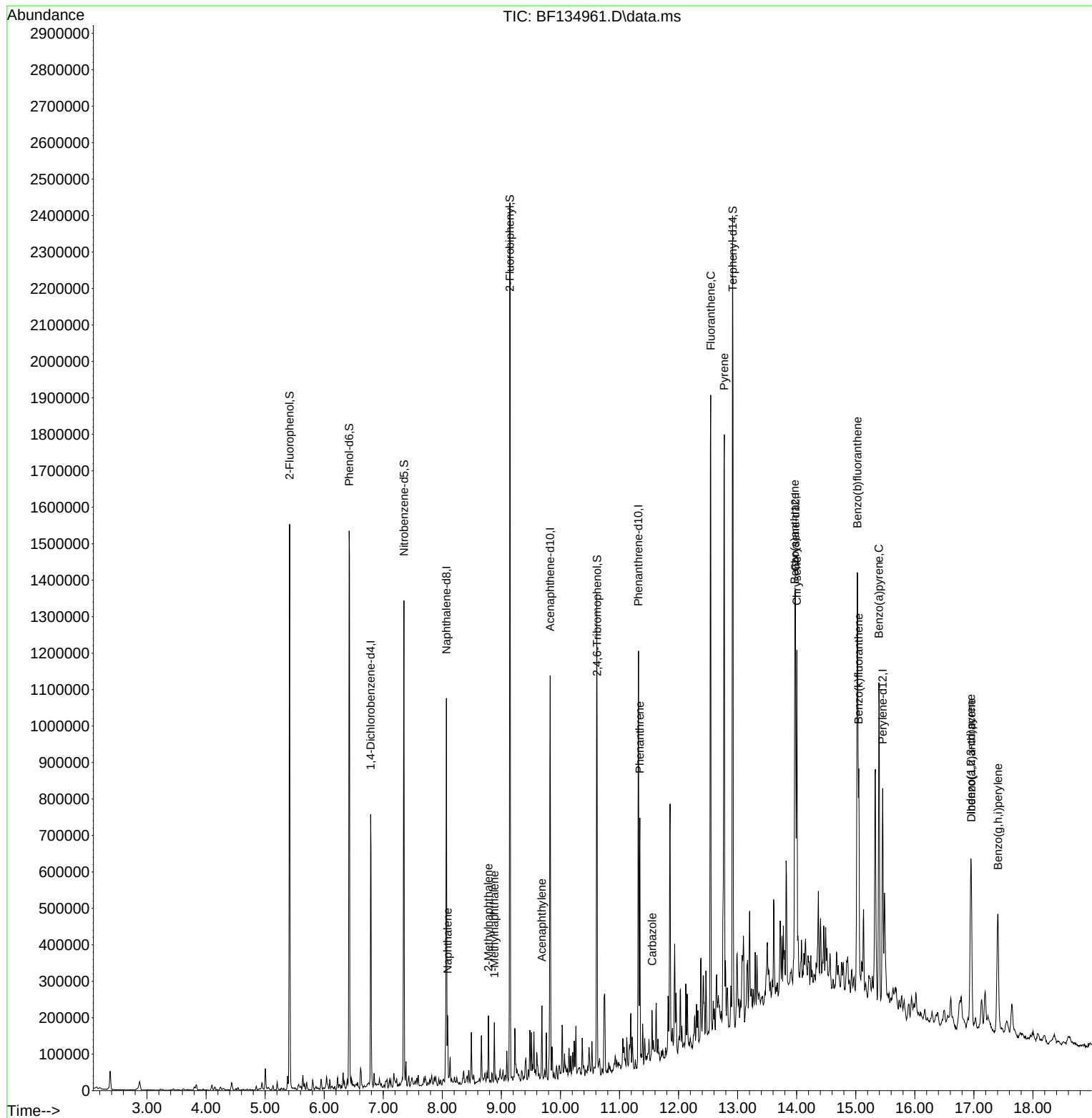
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082823\
Data File : BF134961.D
Acq On : 28 Aug 2023 11:12
Operator : CG\JU
Sample : 04110-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

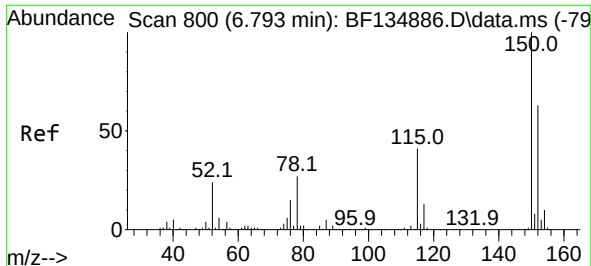
Instrument :
BNA_F
ClientSampleId :
TP-15(2-3)

Quant Time: Aug 29 03:47:17 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 28 02:45:19 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

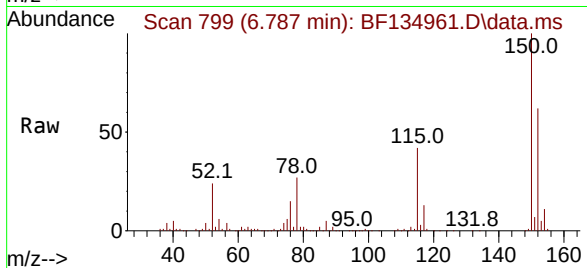
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023





#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.787 min Scan# 79
 Delta R.T. -0.006 min
 Lab File: BF134961.D
 Acq: 28 Aug 2023 11:12

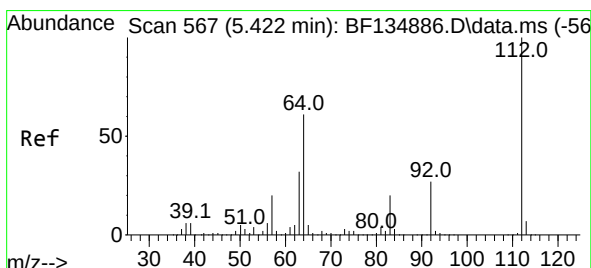
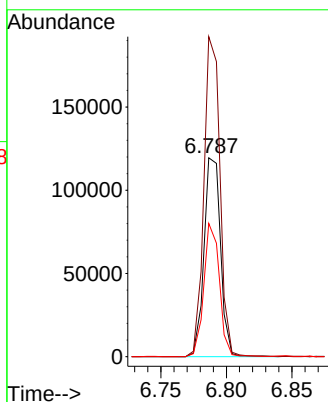
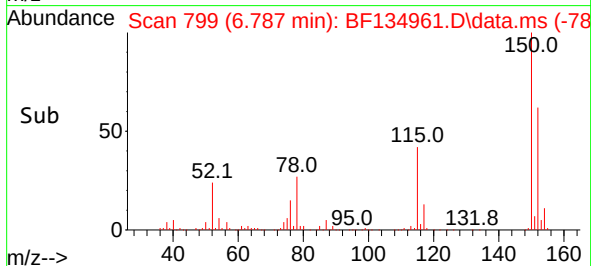
Instrument :
 BNA_F
 ClientSampleId :
 TP-15(2-3)



Tgt Ion:152 Resp: 10498
 Ion Ratio Lower Upper
 152 100
 150 160.9 126.1 189.1
 115 67.0 51.1 76.7

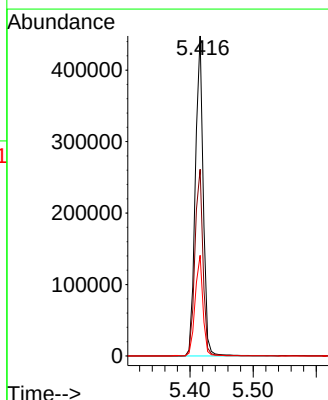
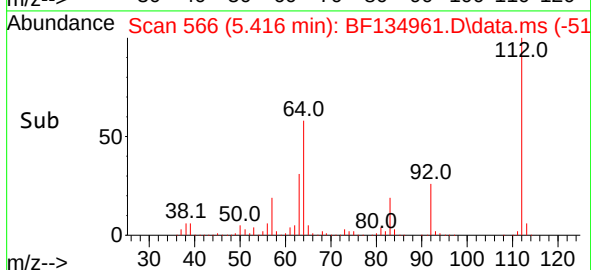
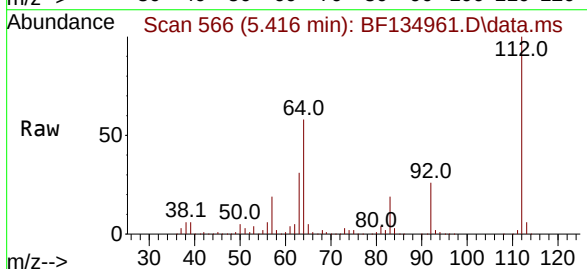
Manual Integrations
 APPROVED

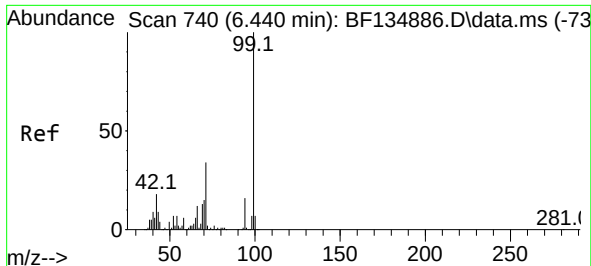
Reviewed By :Yogesh Patel 08/29/2023
 Supervised By :mohammad ahmed 08/29/2023



#5
 2-Fluorophenol
 Concen: 58.911 ng
 RT: 5.416 min Scan# 566
 Delta R.T. -0.006 min
 Lab File: BF134961.D
 Acq: 28 Aug 2023 11:12

Tgt Ion:112 Resp: 387832
 Ion Ratio Lower Upper
 112 100
 64 58.4 48.6 73.0
 63 31.4 25.7 38.5





#7

Phenol-d6

Concen: 61.919 ng

RT: 6.422 min Scan# 71

Delta R.T. -0.018 min

Lab File: BF134961.D

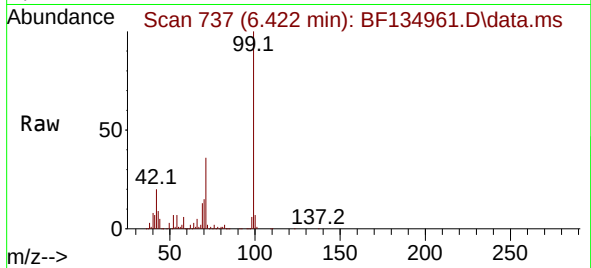
Acq: 28 Aug 2023 11:12

Instrument :

BNA_F

ClientSampleId :

TP-15(2-3)



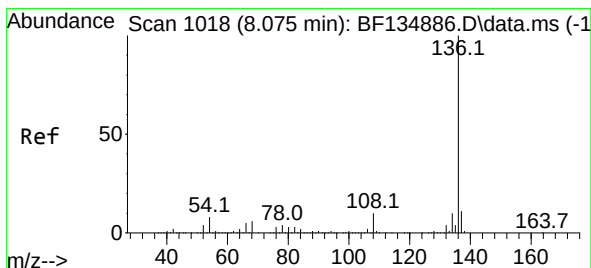
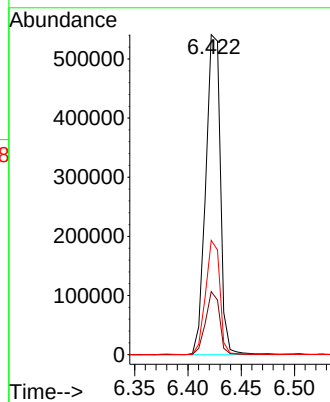
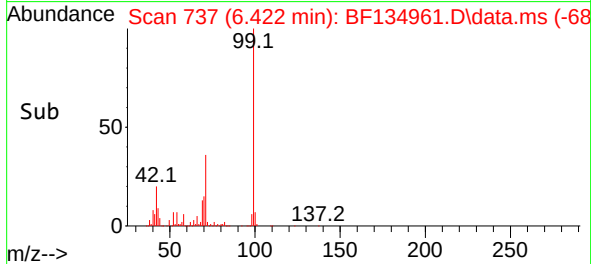
Tgt Ion:	99	Resp:	520880
Ion Ratio	100	Lower	Upper
99	100		
42	19.7	14.6	22.0
71	35.7	27.6	41.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/29/2023

Supervised By :mohammad ahmed 08/29/2023



#21

Naphthalene-d8

Concen: 20.000 ng

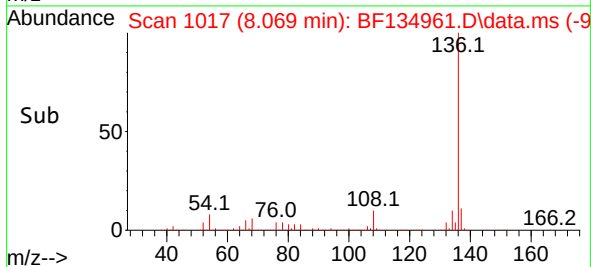
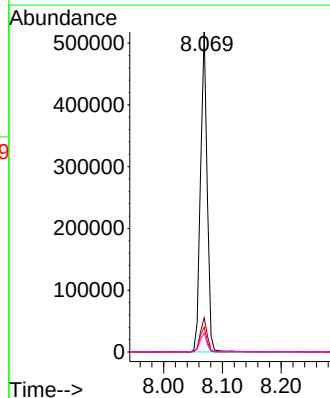
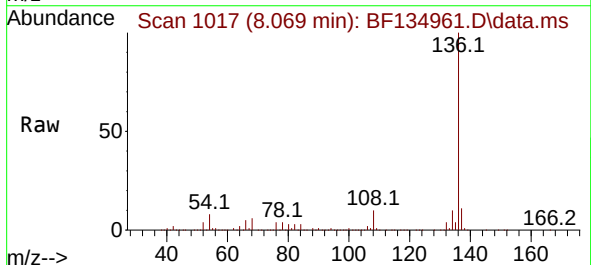
RT: 8.069 min Scan# 1017

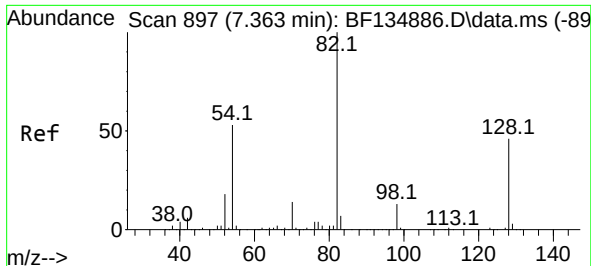
Delta R.T. -0.006 min

Lab File: BF134961.D

Acq: 28 Aug 2023 11:12

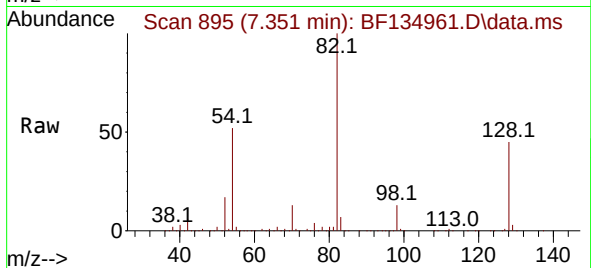
Tgt Ion:	136	Resp:	407240
Ion Ratio	100	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	7.8	6.6	9.8
68	5.9	5.0	7.4





#23
Nitrobenzene-d5
Concen: 49.080 ng
RT: 7.351 min Scan# 89
Delta R.T. -0.012 min
Lab File: BF134961.D
Acq: 28 Aug 2023 11:12

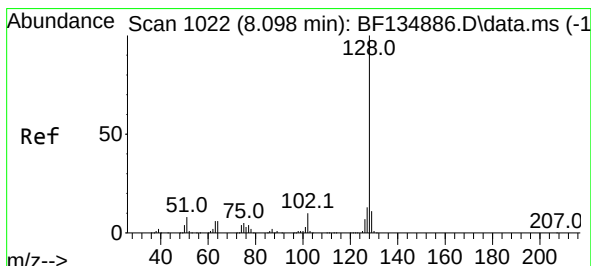
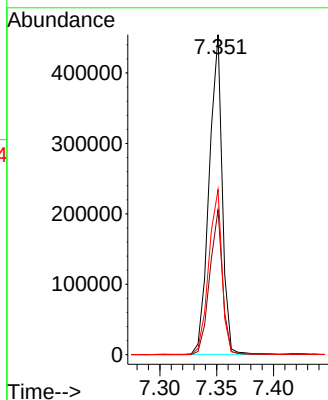
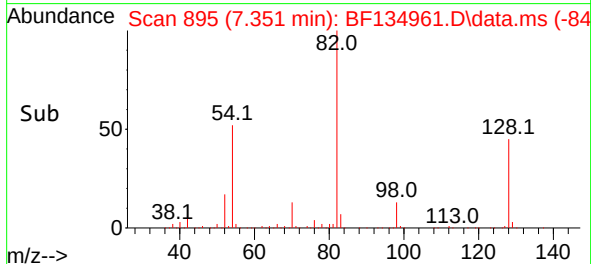
Instrument :
BNA_F
ClientSampleId :
TP-15(2-3)



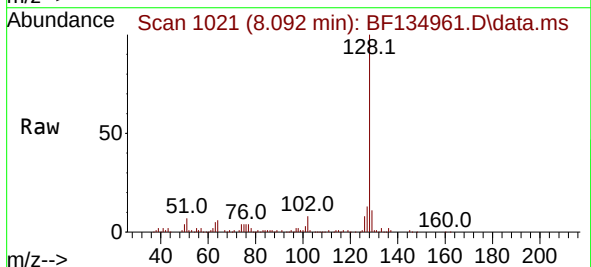
Tgt Ion: 82 Resp: 36272
Ion Ratio Lower Upper
82 100
128 45.3 36.6 54.8
54 51.6 42.6 63.8

Manual Integrations
APPROVED

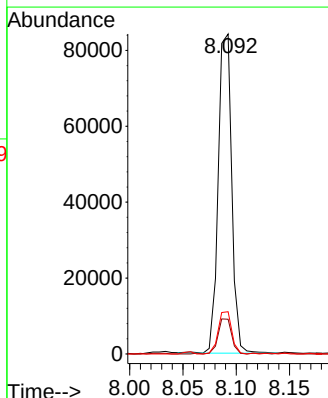
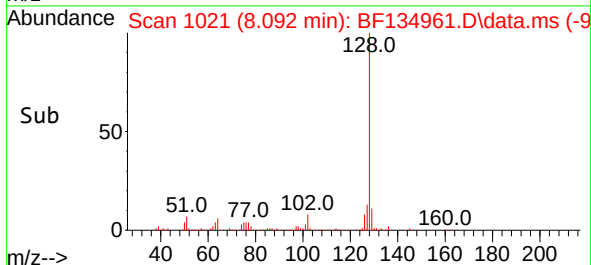
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023

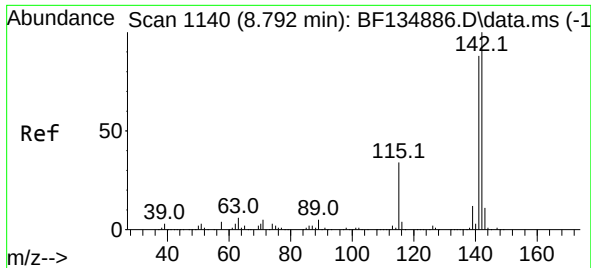


#31
Naphthalene
Concen: 3.641 ng
RT: 8.092 min Scan# 1021
Delta R.T. -0.006 min
Lab File: BF134961.D
Acq: 28 Aug 2023 11:12



Tgt Ion:128 Resp: 74037
Ion Ratio Lower Upper
128 100
129 10.8 9.0 13.4
127 13.2 10.6 16.0





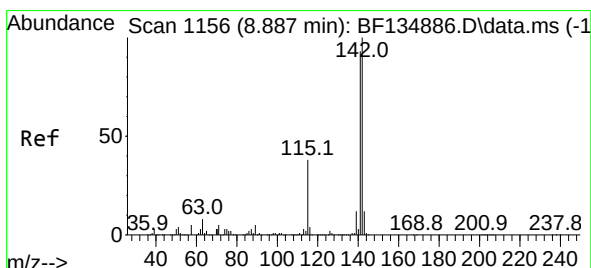
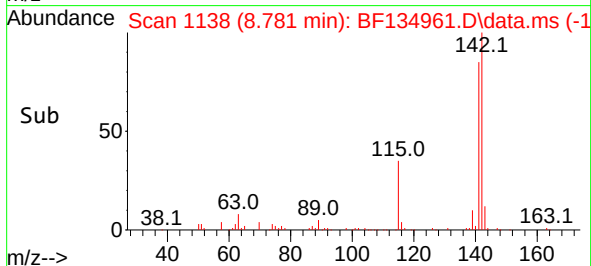
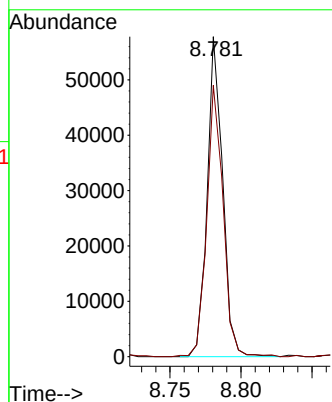
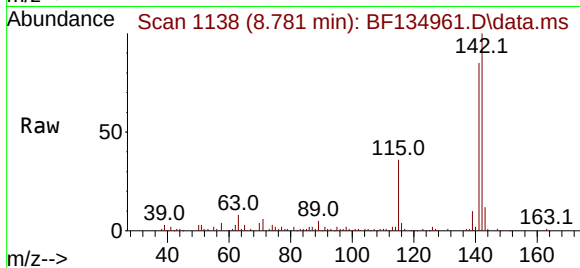
#37
2-Methylnaphthalene
Concen: 3.231 ng
RT: 8.781 min Scan# 1138
Delta R.T. -0.012 min
Lab File: BF134961.D
Acq: 28 Aug 2023 11:12

Instrument :
BNA_F
ClientSampleId :
TP-15(2-3)

Tgt Ion:142 Resp: 4381
Ion Ratio Lower Upper
142 100
141 84.8 70.2 105.2

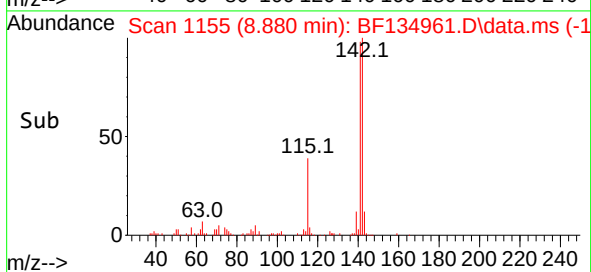
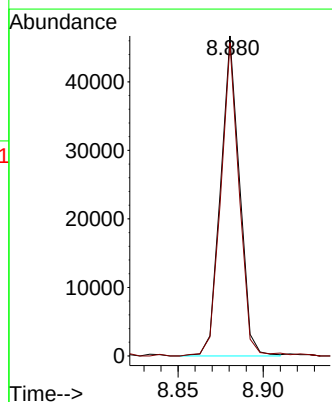
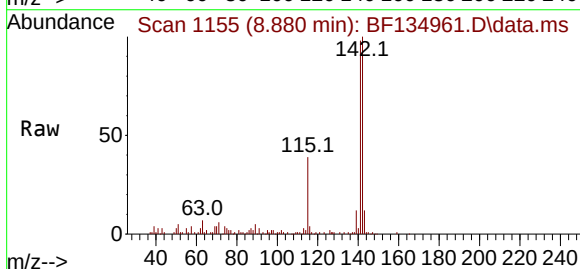
Manual Integrations
APPROVED

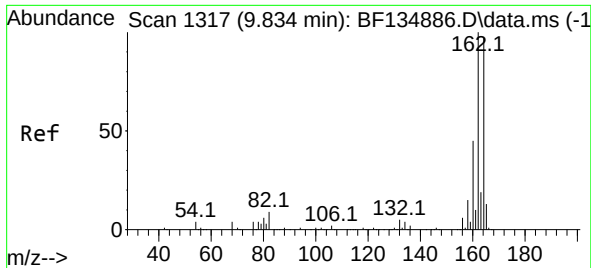
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023



#38
1-Methylnaphthalene
Concen: 2.849 ng
RT: 8.880 min Scan# 1155
Delta R.T. -0.006 min
Lab File: BF134961.D
Acq: 28 Aug 2023 11:12

Tgt Ion:142 Resp: 36121
Ion Ratio Lower Upper
142 100
141 97.9 74.1 111.1





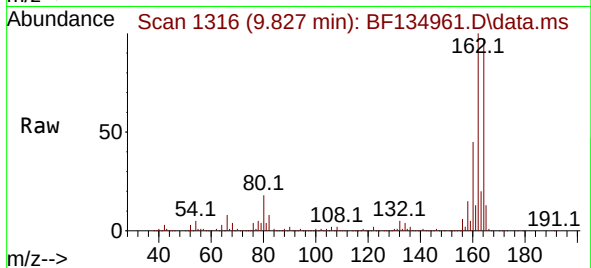
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.827 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134961.D
Acq: 28 Aug 2023 11:12

Instrument :

BNA_F

ClientSampleId :

TP-15(2-3)

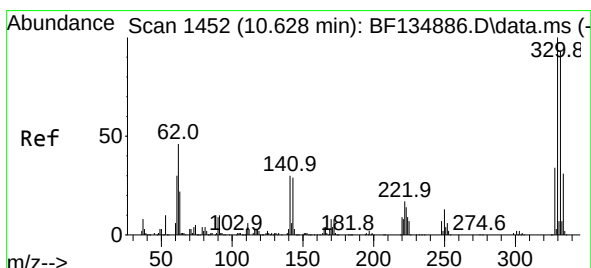
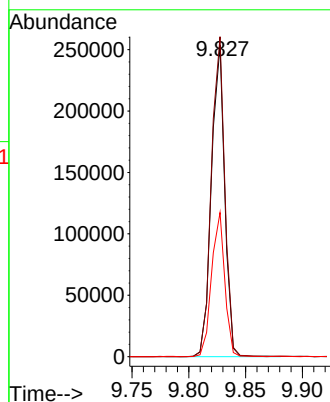
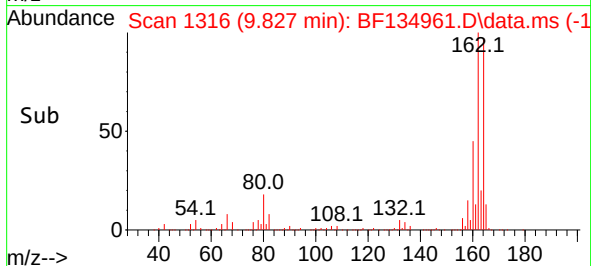


Tgt Ion:164 Resp: 205810
Ion Ratio Lower Upper
164 100
162 102.7 82.6 123.8
160 46.3 37.0 55.4

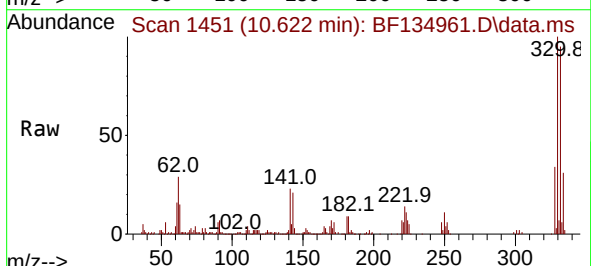
Manual Integrations

APPROVED

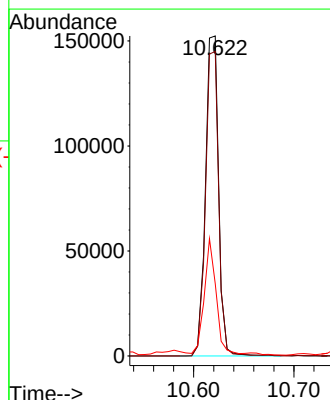
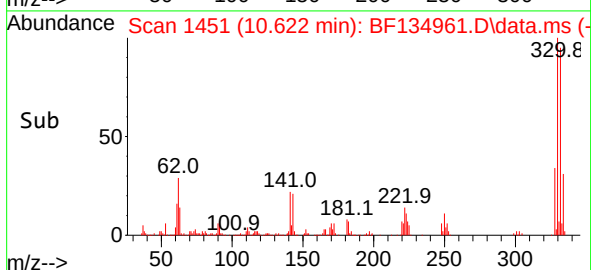
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023

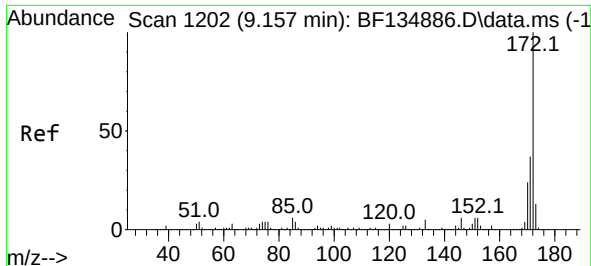


#42
2,4,6-Tribromophenol
Concen: 57.612 ng
RT: 10.622 min Scan# 1451
Delta R.T. -0.006 min
Lab File: BF134961.D
Acq: 28 Aug 2023 11:12



Tgt Ion:330 Resp: 139652
Ion Ratio Lower Upper
330 100
332 95.0 76.3 114.5
141 31.4 23.4 35.2





#45

2-Fluorobiphenyl

Concen: 50.007 ng

RT: 9.145 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF134961.D

Acq: 28 Aug 2023 11:12

Instrument :

BNA_F

ClientSampleId :

TP-15(2-3)

Tgt Ion:172 Resp: 66578

Ion Ratio Lower Upper

172 100

171 35.0 29.4 44.0

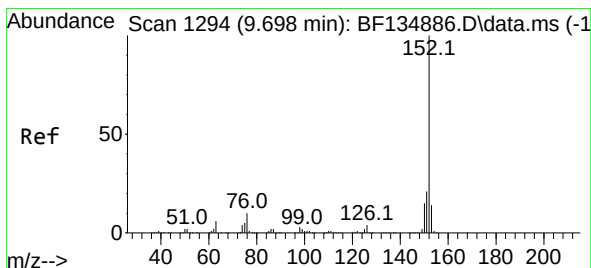
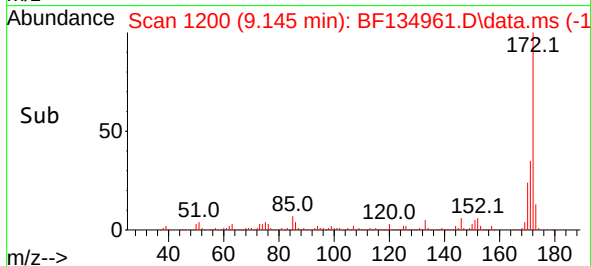
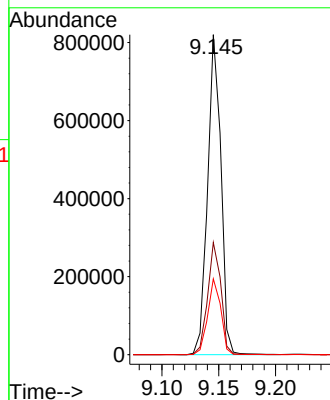
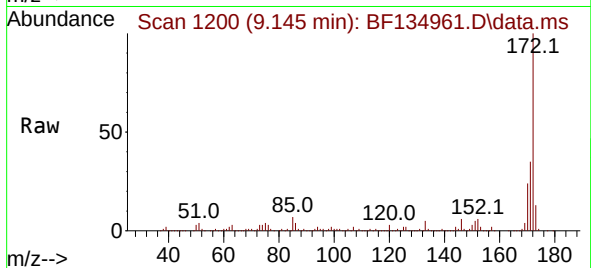
170 23.7 19.6 29.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/29/2023

Supervised By :mohammad ahmed 08/29/2023



#49

Acenaphthylene

Concen: 3.291 ng

RT: 9.686 min Scan# 1292

Delta R.T. -0.012 min

Lab File: BF134961.D

Acq: 28 Aug 2023 11:12

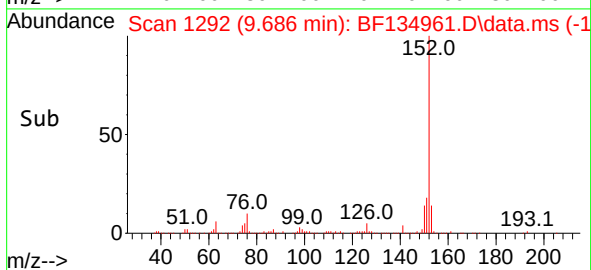
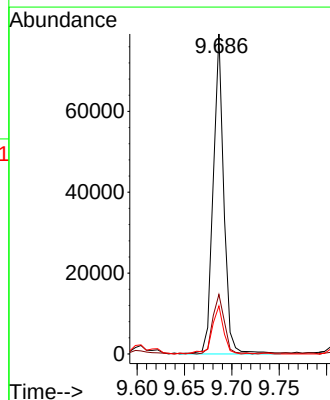
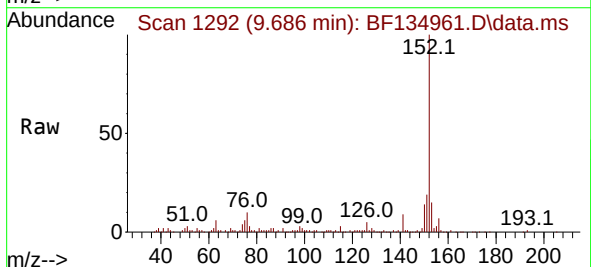
Tgt Ion:152 Resp: 61496

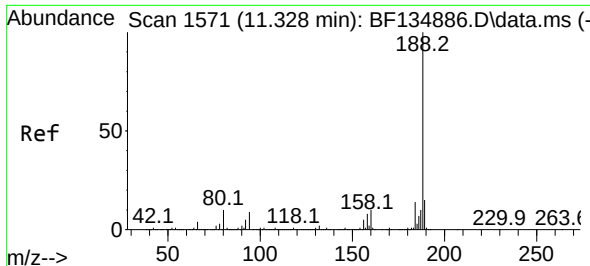
Ion Ratio Lower Upper

152 100

151 18.6 16.5 24.7

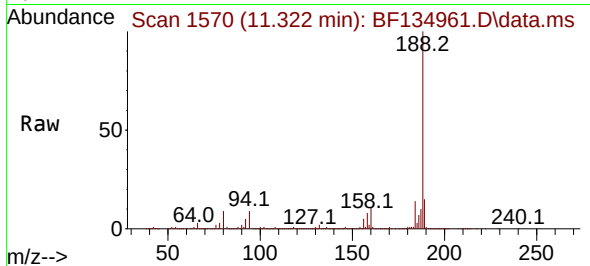
153 15.0 11.3 16.9





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134961.D
Acq: 28 Aug 2023 11:12

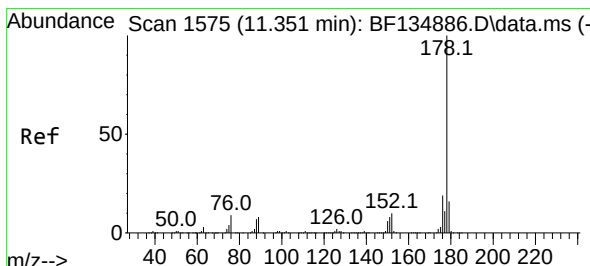
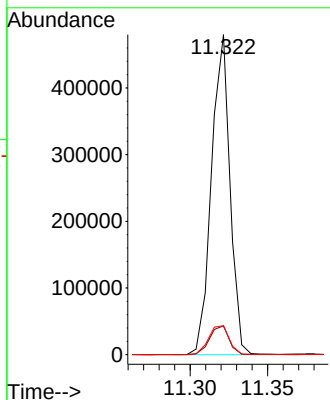
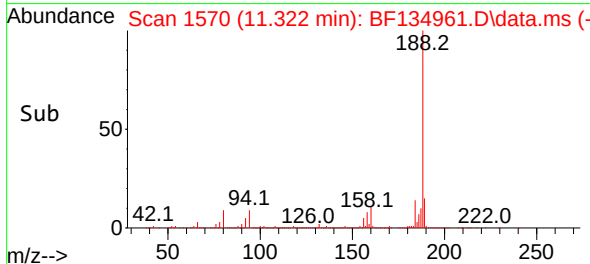
Instrument :
BNA_F
ClientSampleId :
TP-15(2-3)



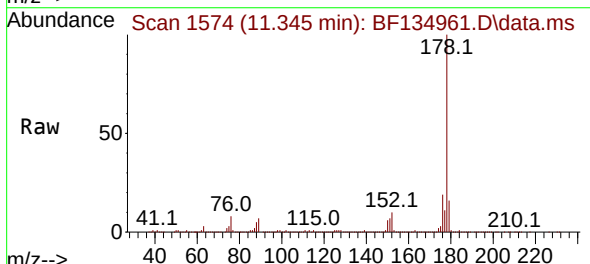
Tgt Ion:188 Resp: 398528
Ion Ratio Lower Upper
188 100
94 9.0 7.5 11.3
80 9.1 7.8 11.6

Manual Integrations
APPROVED

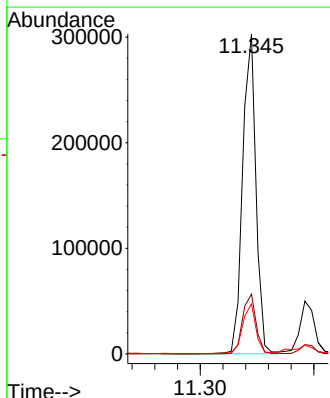
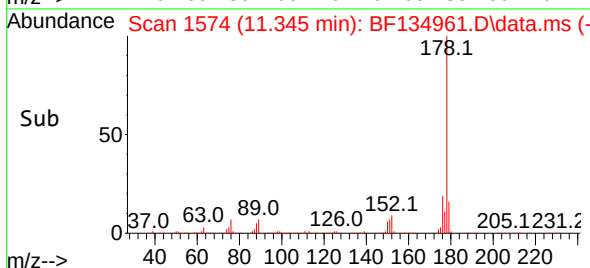
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023

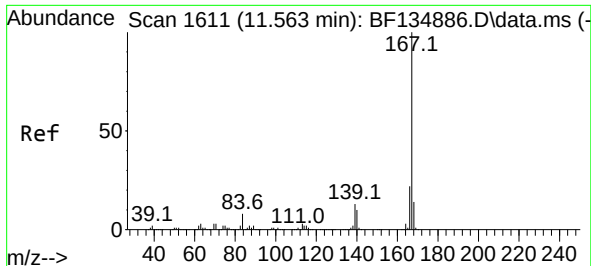


#71
Phenanthrene
Concen: 11.794 ng
RT: 11.345 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF134961.D
Acq: 28 Aug 2023 11:12



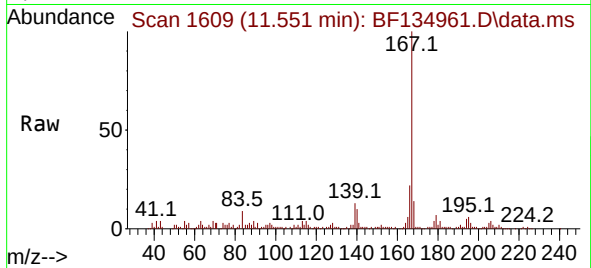
Tgt Ion:178 Resp: 246291
Ion Ratio Lower Upper
178 100
176 18.7 15.5 23.3
179 15.7 12.6 19.0





#73
 Carbazole
 Concen: 2.543 ng
 RT: 11.551 min Scan# 1609
 Delta R.T. -0.012 min
 Lab File: BF134961.D
 Acq: 28 Aug 2023 11:12

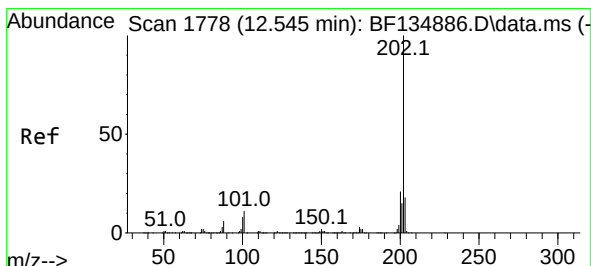
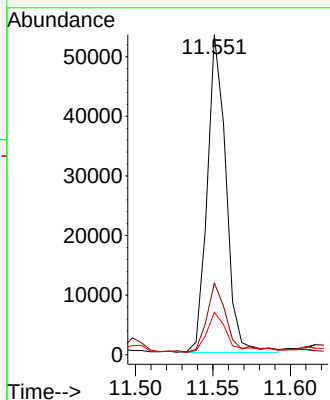
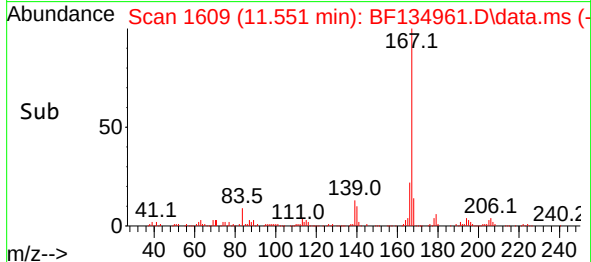
Instrument :
 BNA_F
 ClientSampleId :
 TP-15(2-3)



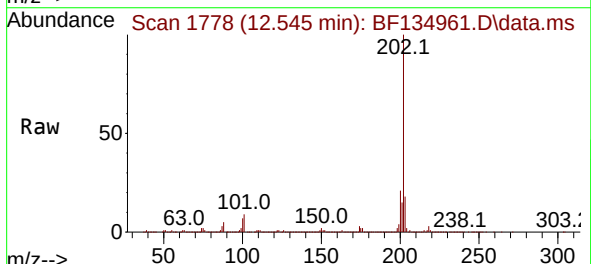
Tgt Ion:167 Resp: 44840
 Ion Ratio Lower Upper
 167 100
 166 22.4 17.4 26.2
 139 13.3 10.4 15.6

Manual Integrations
 APPROVED

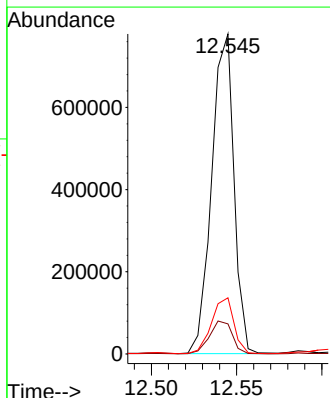
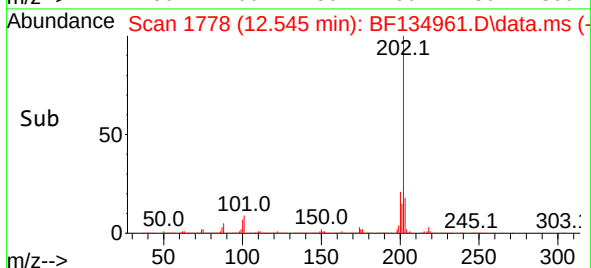
Reviewed By :Yogesh Patel 08/29/2023
 Supervised By :mohammad ahmed 08/29/2023

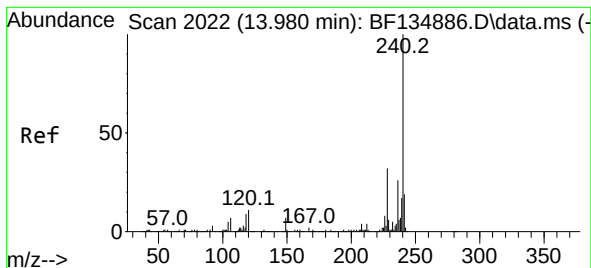


#75
 Fluoranthene
 Concen: 35.776 ng
 RT: 12.545 min Scan# 1778
 Delta R.T. -0.000 min
 Lab File: BF134961.D
 Acq: 28 Aug 2023 11:12



Tgt Ion:202 Resp: 707910
 Ion Ratio Lower Upper
 202 100
 101 9.4 0.0 30.5
 203 17.6 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.980 min Scan# 2022

Delta R.T. -0.000 min

Lab File: BF134961.D

Acq: 28 Aug 2023 11:12

Instrument :

BNA_F

ClientSampleId :

TP-15(2-3)

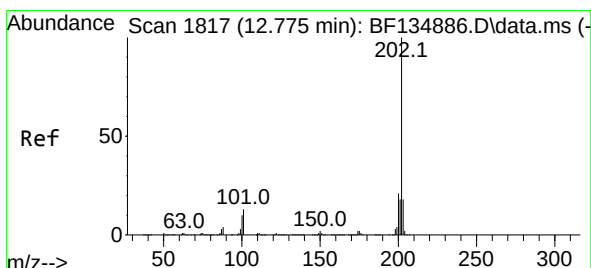
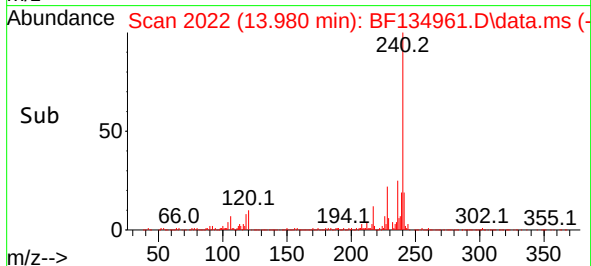
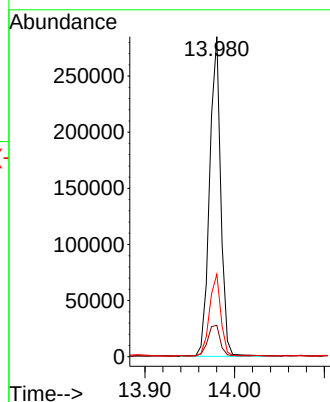
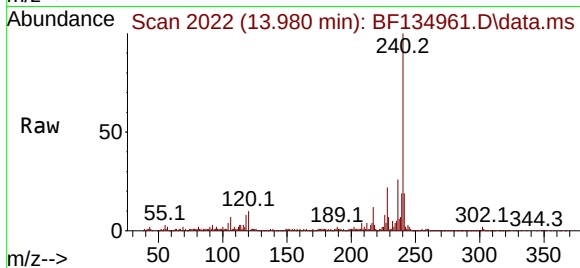
Tgt Ion:	240	Resp:	245579
Ion Ratio	Lower	Upper	
240	100		
120	9.8	8.6	12.8
236	25.8	20.6	31.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/29/2023

Supervised By :mohammad ahmed 08/29/2023



#78

Pyrene

Concen: 27.227 ng

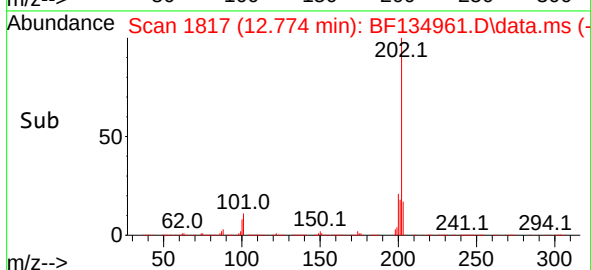
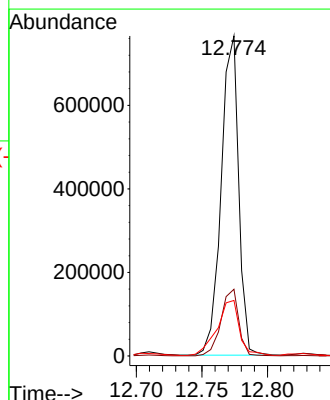
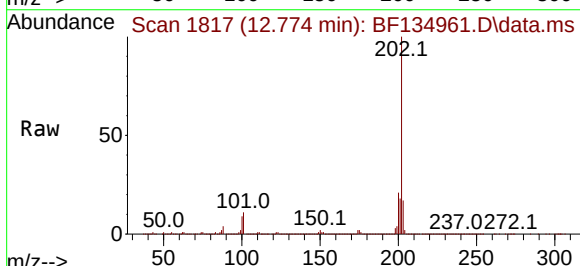
RT: 12.774 min Scan# 1817

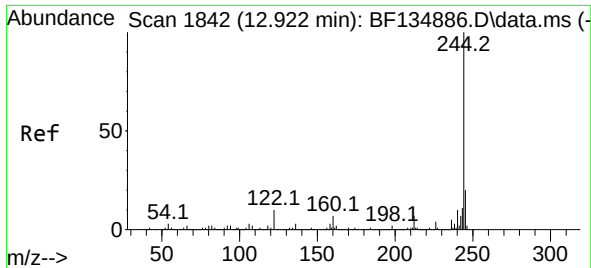
Delta R.T. -0.000 min

Lab File: BF134961.D

Acq: 28 Aug 2023 11:12

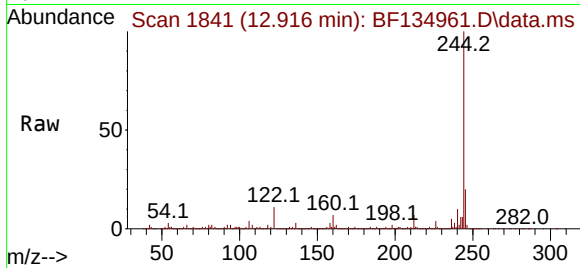
Tgt Ion:	202	Resp:	708942
Ion Ratio	Lower	Upper	
202	100		
200	20.9	17.1	25.7
203	17.3	14.2	21.2





#79
 Terphenyl-d14
 Concen: 42.076 ng
 RT: 12.916 min Scan# 1842
 Delta R.T. -0.006 min
 Lab File: BF134961.D
 Acq: 28 Aug 2023 11:12

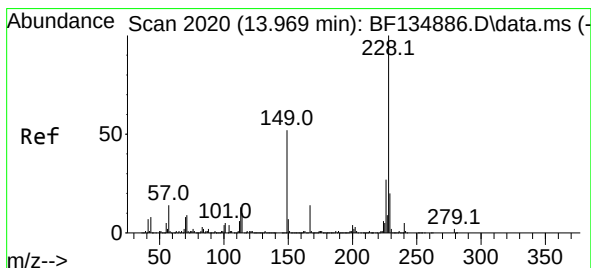
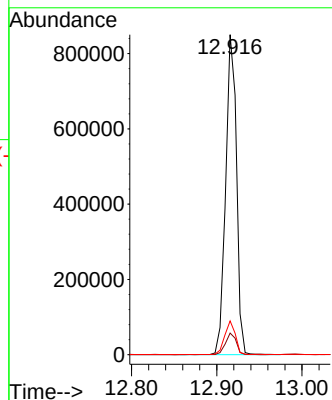
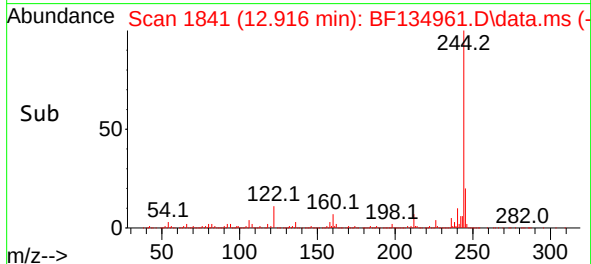
Instrument :
 BNA_F
 ClientSampleId :
 TP-15(2-3)



Tgt Ion:244 Resp: 75127
 Ion Ratio Lower Upper
 244 100
 212 6.8 5.4 8.0
 122 10.6 8.2 12.4

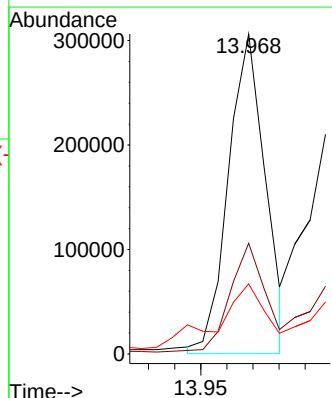
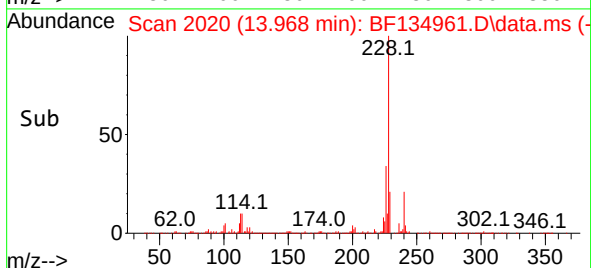
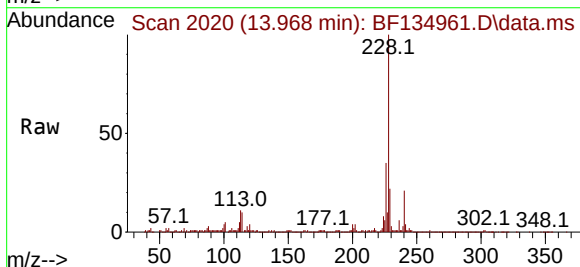
Manual Integrations
 APPROVED

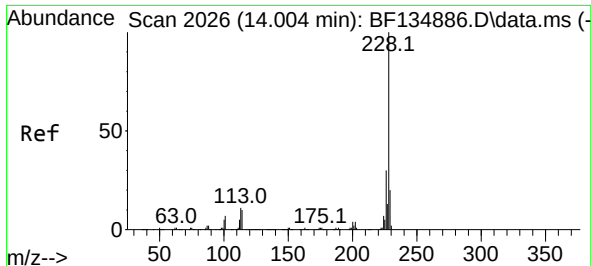
Reviewed By :Yogesh Patel 08/29/2023
 Supervised By :mohammad ahmed 08/29/2023



#81
 Benzo(a)anthracene
 Concen: 17.993 ng m
 RT: 13.968 min Scan# 2020
 Delta R.T. -0.000 min
 Lab File: BF134961.D
 Acq: 28 Aug 2023 11:12

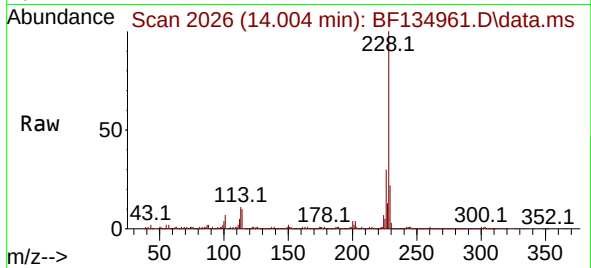
Tgt Ion:228 Resp: 301478
 Ion Ratio Lower Upper
 228 100
 226 34.6 21.8 32.6#
 229 21.9 15.6 23.4





#83
Chrysene
Concen: 22.587 ng
RT: 14.004 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BF134961.D
Acq: 28 Aug 2023 11:12

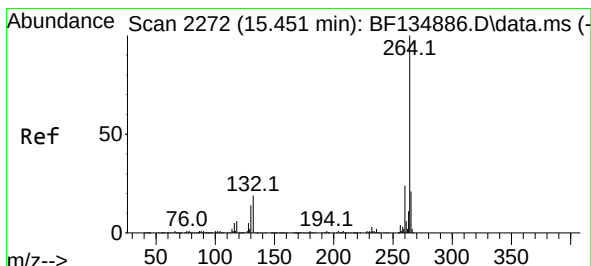
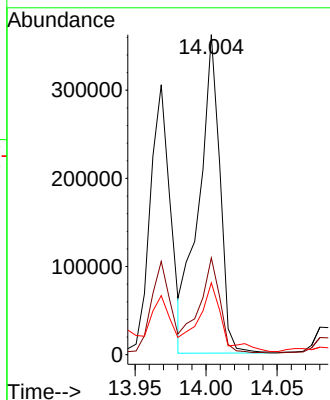
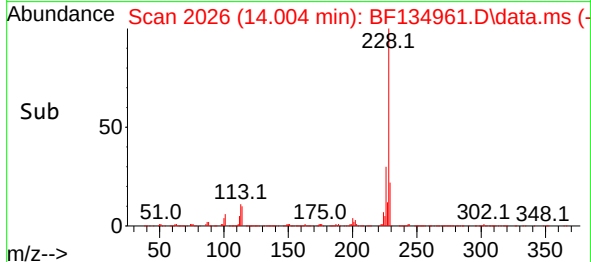
Instrument :
BNA_F
ClientSampleId :
TP-15(2-3)



Tgt Ion:228 Resp: 37340
Ion Ratio Lower Upper
228 100
226 30.3 24.2 36.2
229 22.4 16.0 24.0

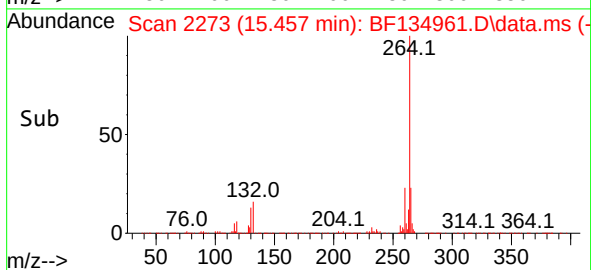
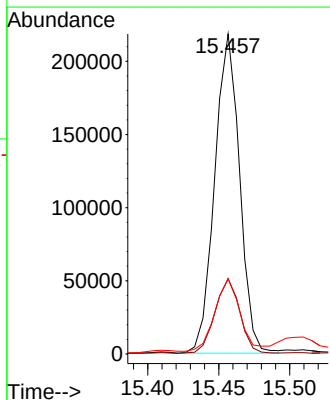
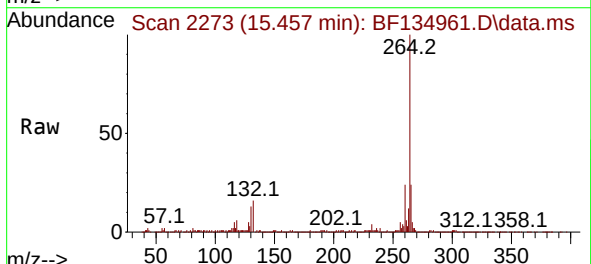
Manual Integrations
APPROVED

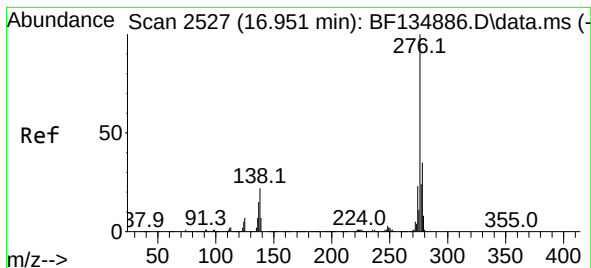
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.457 min Scan# 2273
Delta R.T. 0.006 min
Lab File: BF134961.D
Acq: 28 Aug 2023 11:12

Tgt Ion:264 Resp: 265624
Ion Ratio Lower Upper
264 100
260 23.5 19.0 28.6
265 23.5 17.1 25.7





#87

Indeno(1,2,3-cd)pyrene

Concen: 17.158 ng

RT: 16.951 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF134961.D

Acq: 28 Aug 2023 11:12

Instrument :

BNA_F

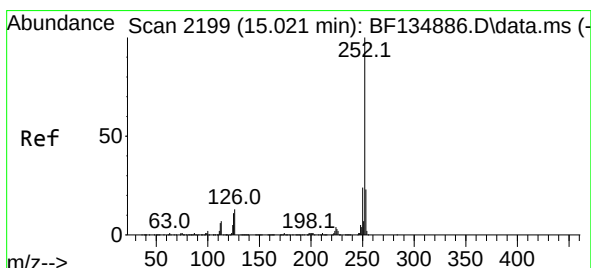
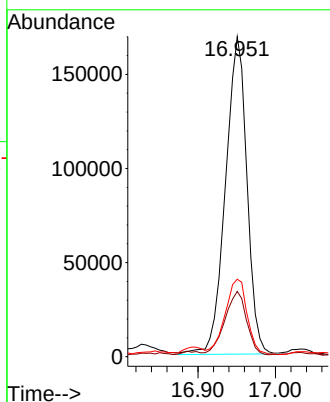
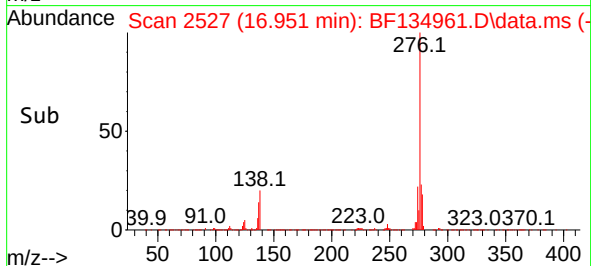
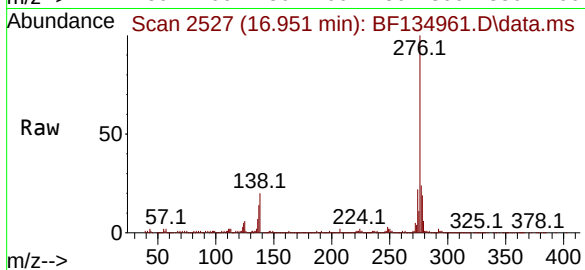
ClientSampleId :

TP-15(2-3)

Tgt Ion:276 Resp: 325780
 Ion Ratio Lower Upper
 276 100
 138 20.3 19.7 29.5
 277 24.4 20.1 30.1

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/29/2023
 Supervised By :mohammad ahmed 08/29/2023



#88

Benzo(b)fluoranthene

Concen: 43.027 ng m

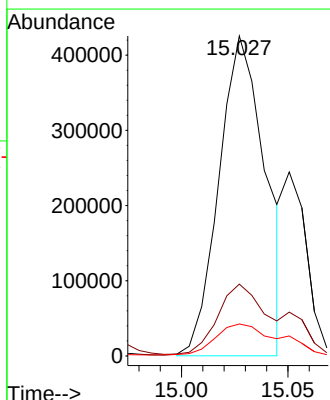
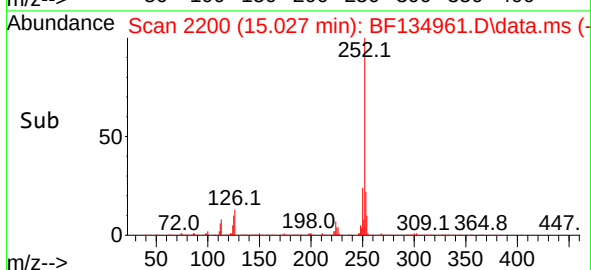
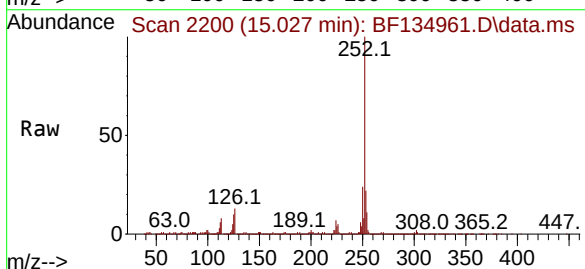
RT: 15.027 min Scan# 2200

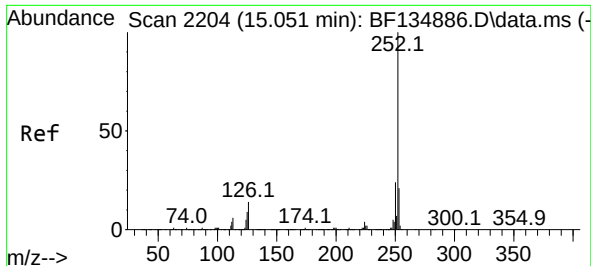
Delta R.T. 0.006 min

Lab File: BF134961.D

Acq: 28 Aug 2023 11:12

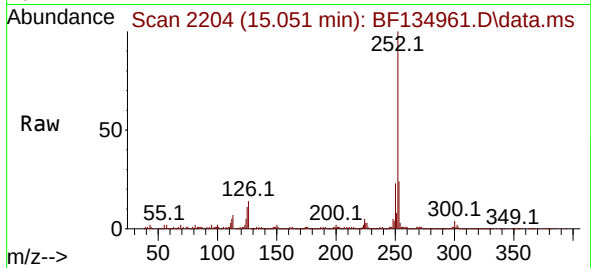
Tgt Ion:252 Resp: 644812
 Ion Ratio Lower Upper
 252 100
 253 22.5 18.1 27.1
 125 10.0 8.4 12.6





#89
Benzo(k)fluoranthene
Concen: 12.243 ng m
RT: 15.051 min Scan# 2204
Delta R.T. -0.000 min
Lab File: BF134961.D
Acq: 28 Aug 2023 11:12

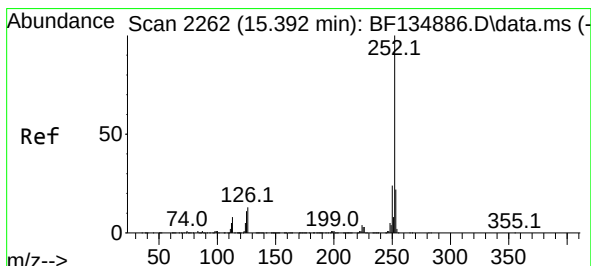
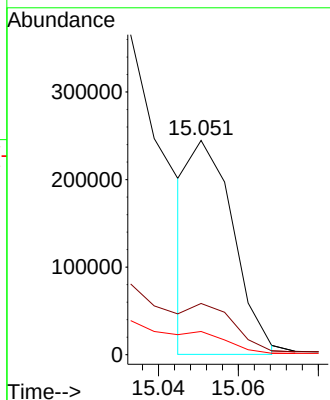
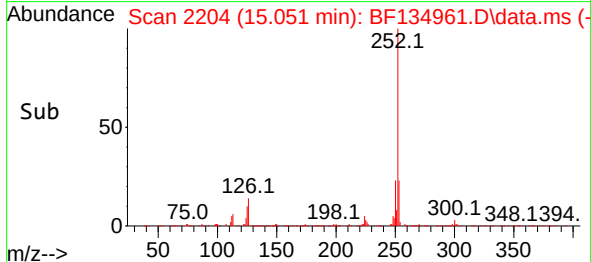
Instrument :
BNA_F
ClientSampleId :
TP-15(2-3)



Tgt Ion:252 Resp: 18016
Ion Ratio Lower Upper
252 100
253 23.9 17.1 25.7
125 10.8 8.0 12.0

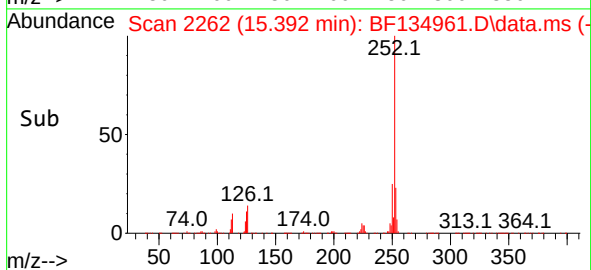
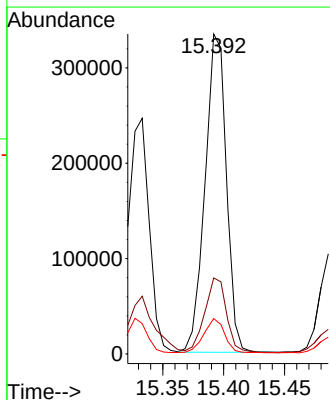
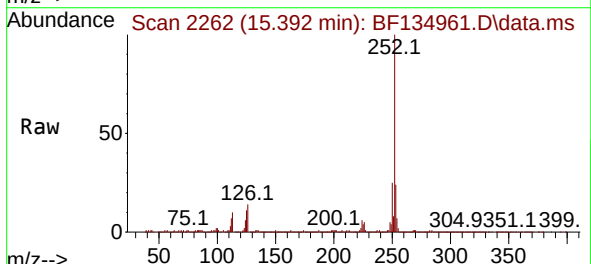
Manual Integrations
APPROVED

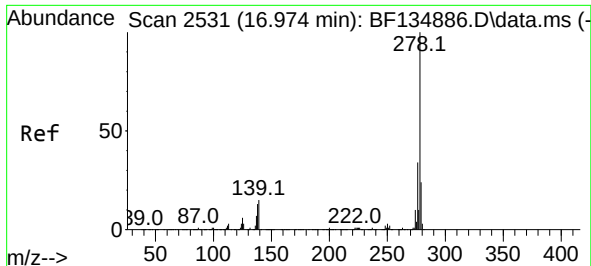
Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023



#90
Benzo(a)pyrene
Concen: 27.248 ng
RT: 15.392 min Scan# 2262
Delta R.T. -0.000 min
Lab File: BF134961.D
Acq: 28 Aug 2023 11:12

Tgt Ion:252 Resp: 407654
Ion Ratio Lower Upper
252 100
253 23.8 17.6 26.4
125 11.1 8.4 12.6





#91
Dibenzo(a,h)anthracene
Concen: 5.006 ng
RT: 16.956 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF134961.D
Acq: 28 Aug 2023 11:12

Instrument :

BNA_F

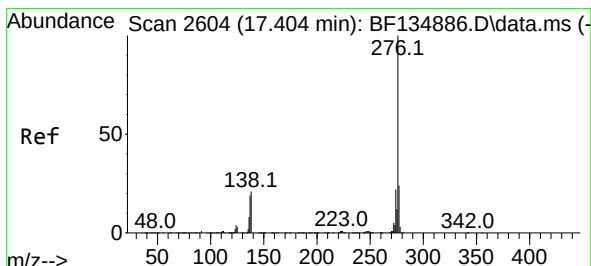
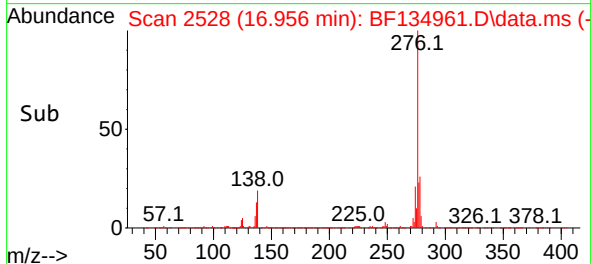
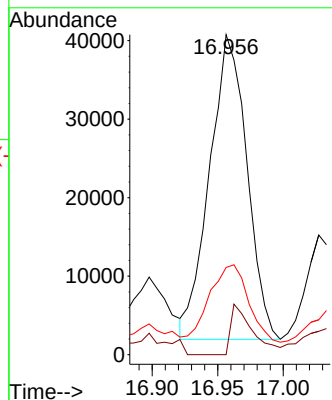
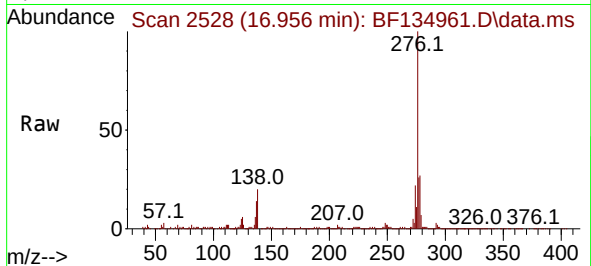
ClientSampleId :

TP-15(2-3)

Tgt Ion:278 Resp: 7689
Ion Ratio Lower Upper
278 100
139 0.0 12.2 18.4
279 27.2 19.1 28.7

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/29/2023
Supervised By :mohammad ahmed 08/29/2023



#92
Benzo(g,h,i)perylene
Concen: 17.750 ng
RT: 17.409 min Scan# 2605
Delta R.T. 0.006 min
Lab File: BF134961.D
Acq: 28 Aug 2023 11:12

Tgt Ion:276 Resp: 279142
Ion Ratio Lower Upper
276 100
277 23.8 19.2 28.8
138 19.7 17.0 25.6

