

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071823\
 Data File : BF134344.D
 Acq On : 18 Jul 2023 18:36
 Operator : CG\JU
 Sample : 03597-03
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RB-43-(0-2)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/19/2023
 Supervised By :mohammad ahmed 07/19/2023

Quant Time: Jul 19 01:39:24 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 14 22:51:27 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.839	152	79039	20.000	ng	0.00
21) Naphthalene-d8	8.116	136	308268	20.000	ng	0.00
39) Acenaphthene-d10	9.874	164	149865	20.000	ng	0.00
64) Phenanthrene-d10	11.369	188	268536	20.000	ng	0.00
76) Chrysene-d12	14.033	240	168867	20.000	ng	0.00
86) Perylene-d12	15.539	264	177589	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.475	112	395483	83.699	ng	0.00
7) Phenol-d6	6.481	99	470991	81.053	ng	0.00
23) Nitrobenzene-d5	7.404	82	330615	57.813	ng	0.00
42) 2,4,6-Tribromophenol	10.669	330	162175	86.309	ng	-0.01
45) 2-Fluorobiphenyl	9.192	172	569163	55.216	ng	-0.01
79) Terphenyl-d14	12.963	244	479257	45.676	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.139	128	30038	2.017	ng	98
52) Acenaphthene	9.904	154	34270	3.931	ng	96
58) Fluorene	10.422	166	33383	3.149	ng	# 96
71) Phenanthrene	11.392	178	401285	29.684	ng	100
72) Anthracene	11.445	178	94960	6.754	ng	98
73) Carbazole	11.604	167	47423	3.685	ng	99
75) Fluoranthene	12.592	202	567650	38.841	ng	98
78) Pyrene	12.827	202	478798	30.467	ng	99
81) Benzo(a)anthracene	14.021	228	254823	21.759	ng	98
83) Chrysene	14.057	228	213423	18.815	ng	97
87) Indeno(1,2,3-cd)pyrene	17.086	276	122413m	9.934	ng	
88) Benzo(b)fluoranthene	15.098	252	280245m	26.837	ng	
89) Benzo(k)fluoranthene	15.121	252	116038m	10.914	ng	
90) Benzo(a)pyrene	15.474	252	210218m	20.818	ng	
91) Dibenzo(a,h)anthracene	17.086	278	32570	3.236	ng	95
92) Benzo(g,h,i)perylene	17.550	276	111909	10.782	ng	95

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

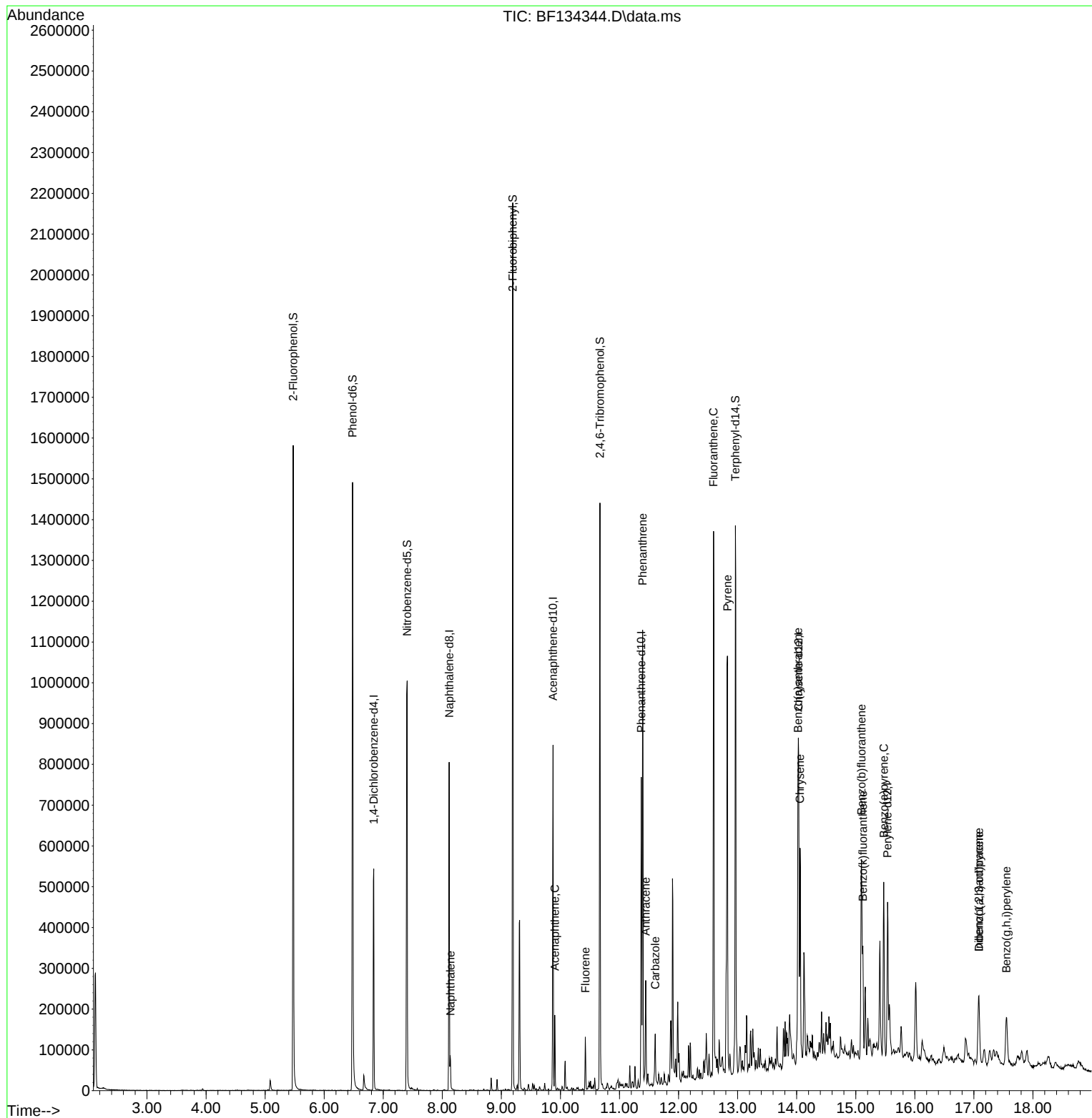
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071823\
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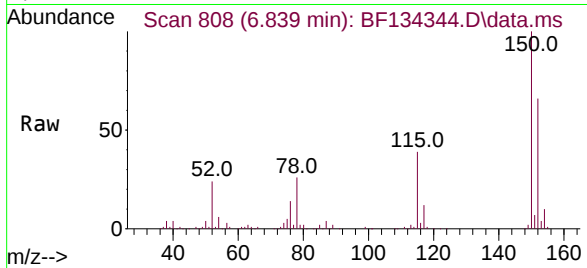
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.839 min Scan# 80
Delta R.T. -0.006 min
Lab File: BF134344.D
Acq: 18 Jul 2023 18:36

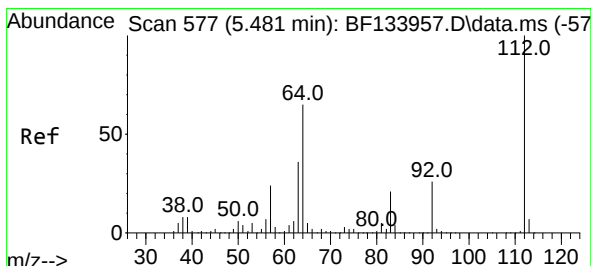
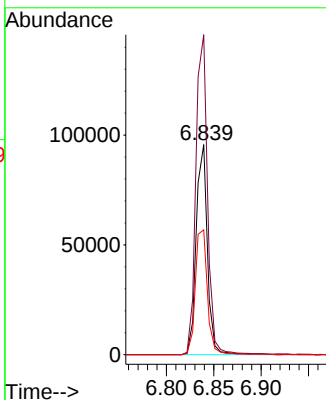
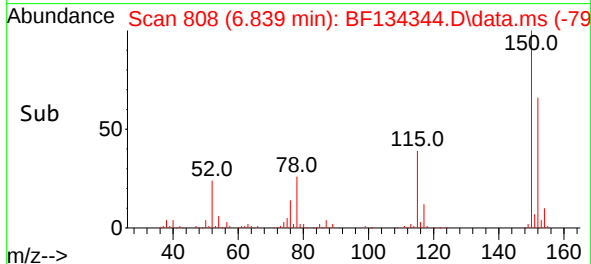
Instrument :
BNA_F
ClientSampleId :
RB-43-(0-2)



Tgt Ion:152 Resp: 79039
Ion Ratio Lower Upper
152 100
150 152.3 124.5 186.7
115 59.4 50.2 75.2

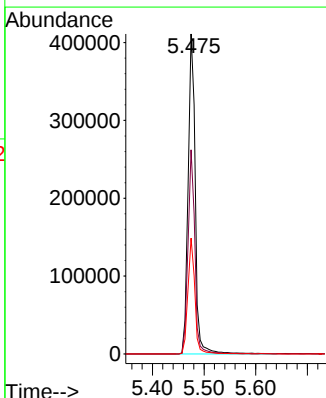
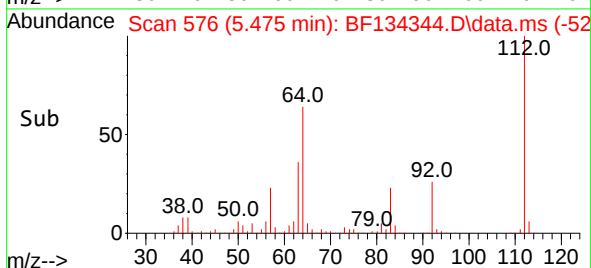
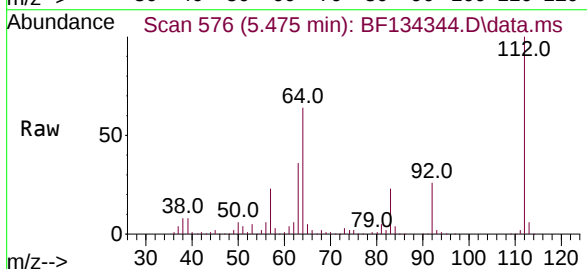
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Supervised By :mohammad ahmed 07/19/2023



#5
2-Fluorophenol
Concen: 83.699 ng
RT: 5.475 min Scan# 576
Delta R.T. 0.006 min
Lab File: BF134344.D
Acq: 18 Jul 2023 18:36

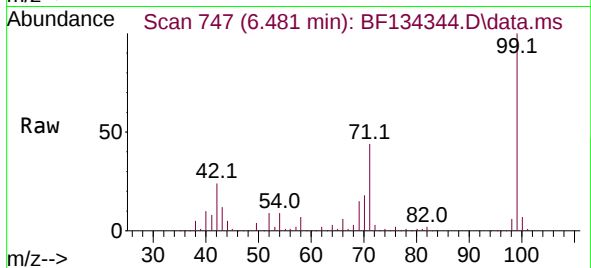
Tgt Ion:112 Resp: 395483
Ion Ratio Lower Upper
112 100
64 63.8 52.1 78.1
63 36.2 28.6 42.8





#7
Phenol-d6
Concen: 81.053 ng
RT: 6.481 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF134344.D
Acq: 18 Jul 2023 18:36

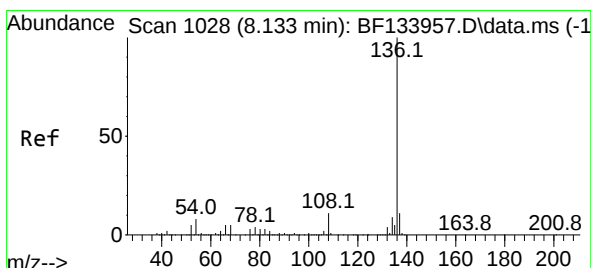
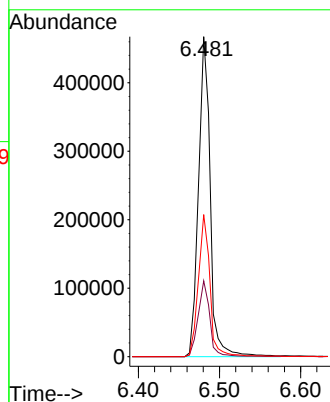
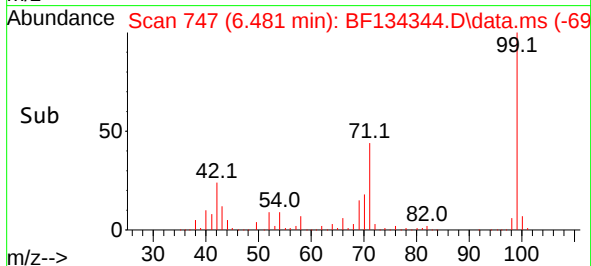
Instrument :
BNA_F
ClientSampleId :
RB-43-(0-2)



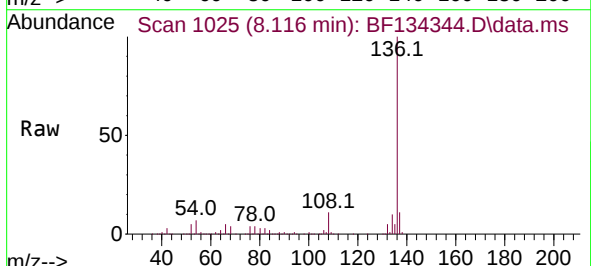
Tgt Ion: 99 Resp: 47099
Ion Ratio Lower Upper
99 100
42 23.7 19.8 29.6
71 44.4 31.9 47.9

Manual Integrations
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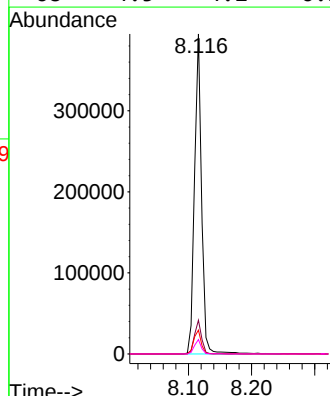
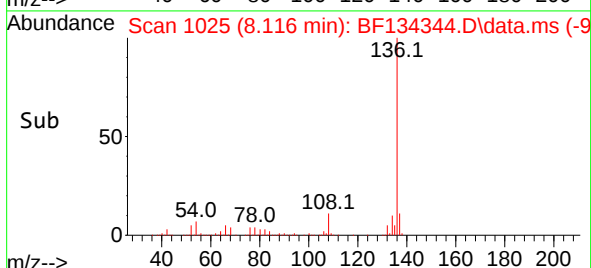
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BF134344.D
Acq: 18 Jul 2023 18:36



Tgt Ion:136 Resp: 308268
Ion Ratio Lower Upper
136 100
137 10.5 8.6 12.8
54 7.5 6.5 9.7
68 4.5 4.2 6.2





#23
Nitrobenzene-d5
Concen: 57.813 ng
RT: 7.404 min Scan# 906
Delta R.T. -0.006 min
Lab File: BF134344.D
Acq: 18 Jul 2023 18:36

Instrument :

BNA_F

ClientSampleId :

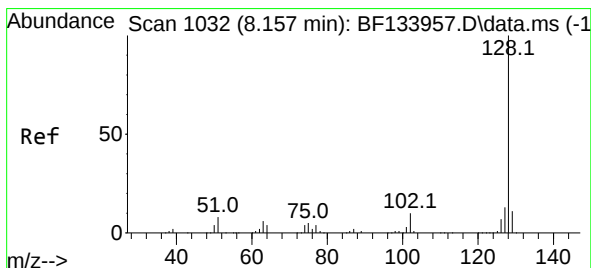
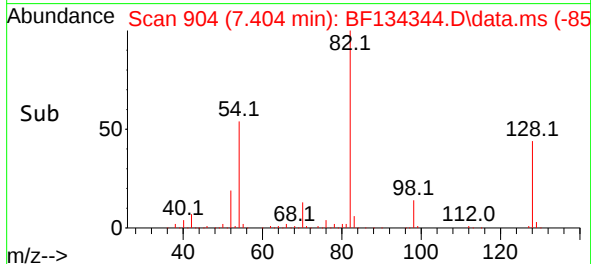
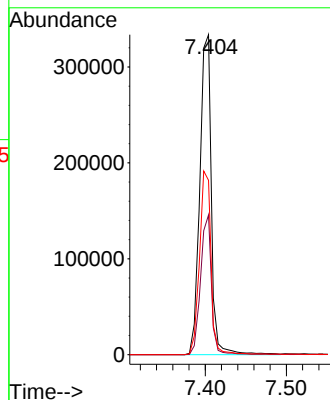
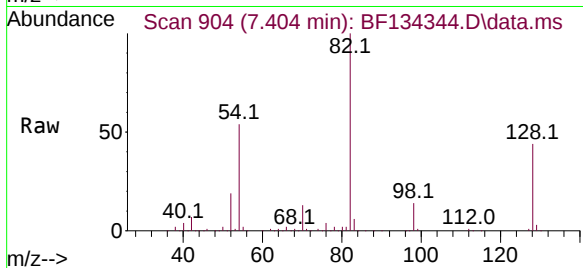
RB-43-(0-2)

Tgt Ion: 82 Resp: 330615
Ion Ratio Lower Upper
82 100
128 43.7 32.5 48.7
54 54.5 48.2 72.2

Manual Integrations

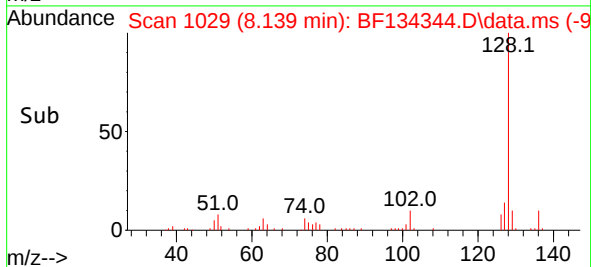
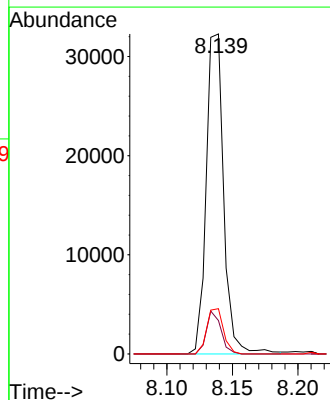
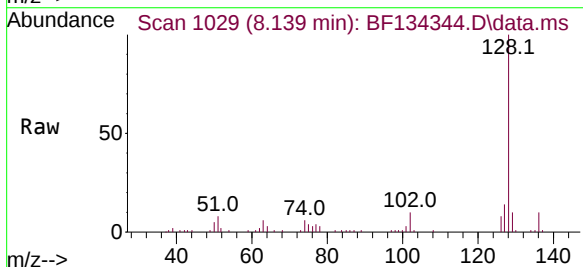
APPROVED

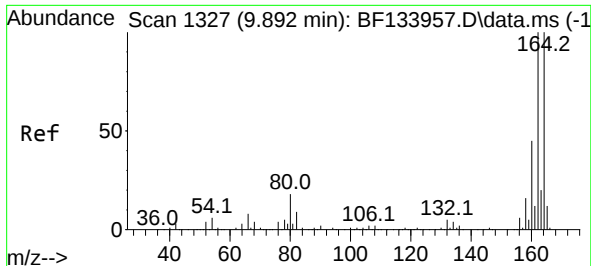
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#31
Naphthalene
Concen: 2.017 ng
RT: 8.139 min Scan# 1029
Delta R.T. -0.006 min
Lab File: BF134344.D
Acq: 18 Jul 2023 18:36

Tgt Ion:128 Resp: 30038
Ion Ratio Lower Upper
128 100
129 10.5 8.7 13.1
127 14.2 10.6 15.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.874 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF134344.D

Acq: 18 Jul 2023 18:36

Instrument :

BNA_F

ClientSampleId :

RB-43-(0-2)

Tgt Ion:164 Resp: 14986

Ion Ratio Lower Upper

164 100

162 103.2 80.0 120.0

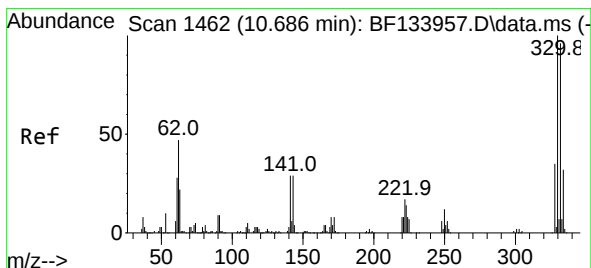
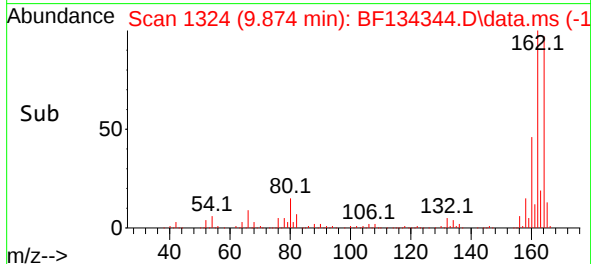
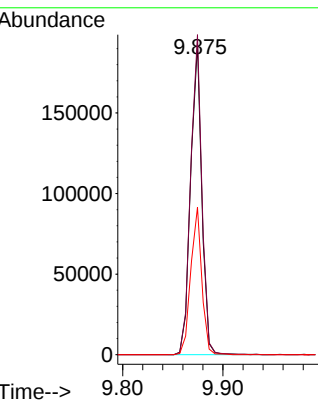
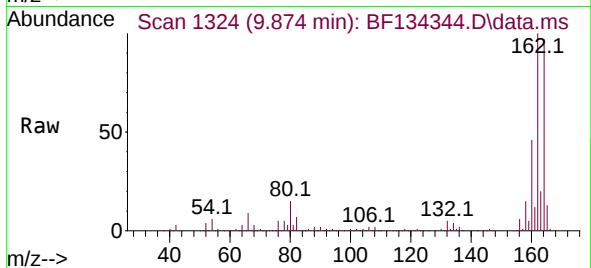
160 47.5 35.9 53.9

Manual Integrations

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Supervised By :mohammad ahmed 07/19/2023



#42

2,4,6-Tribromophenol

Concen: 86.309 ng

RT: 10.669 min Scan# 1459

Delta R.T. -0.012 min

Lab File: BF134344.D

Acq: 18 Jul 2023 18:36

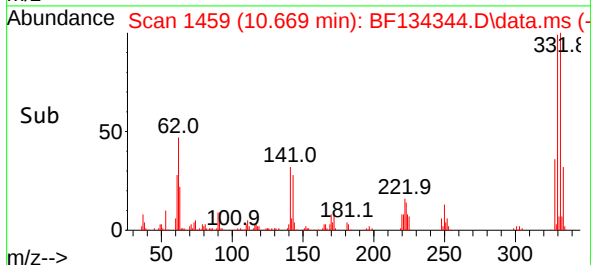
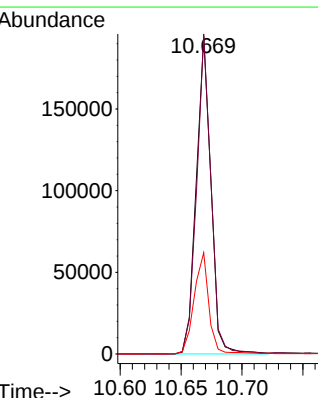
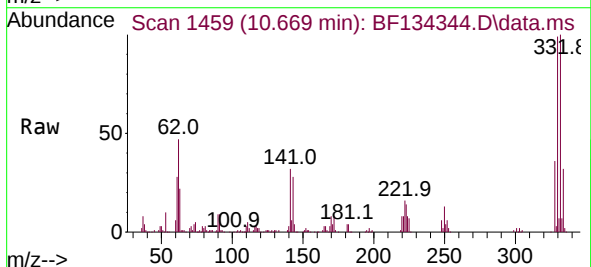
Tgt Ion:330 Resp: 162175

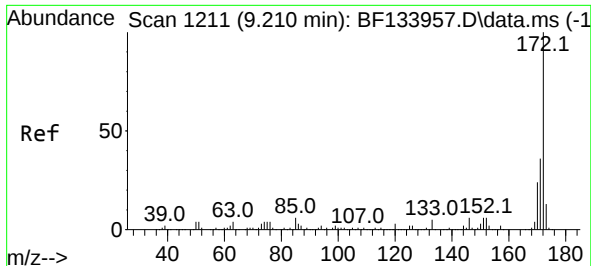
Ion Ratio Lower Upper

330 100

332 98.6 77.0 115.6

141 32.4 26.3 39.5





#45

2-Fluorobiphenyl

Concen: 55.216 ng

RT: 9.192 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF134344.D

Acq: 18 Jul 2023 18:36

Instrument :

BNA_F

ClientSampleId :

RB-43-(0-2)

Tgt Ion:172 Resp: 56916

Ion Ratio Lower Upper

172 100

171 35.6 28.6 43.0

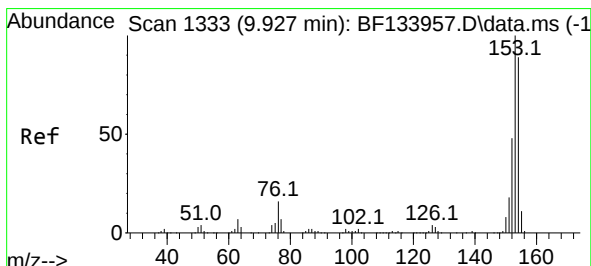
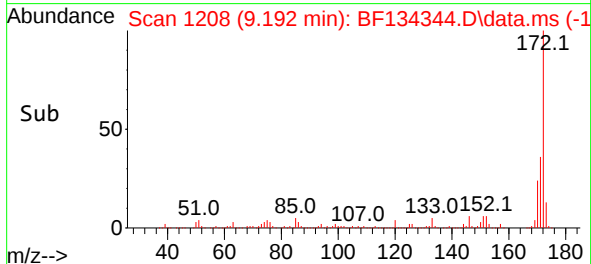
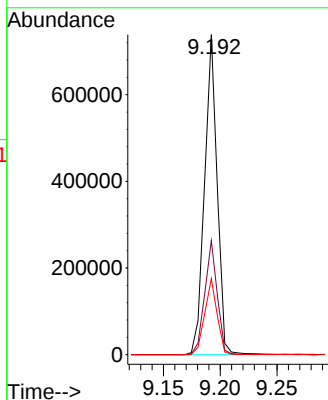
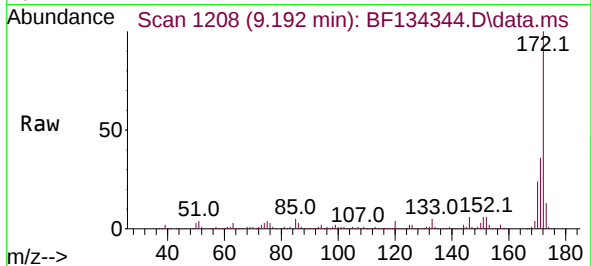
170 23.8 19.4 29.0

Manual Integrations

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Reviewed By :Yogesh Patel 07/19/2023

Supervised By :mohammad ahmed 07/19/2023



#52

Acenaphthene

Concen: 3.931 ng

RT: 9.904 min Scan# 1329

Delta R.T. -0.012 min

Lab File: BF134344.D

Acq: 18 Jul 2023 18:36

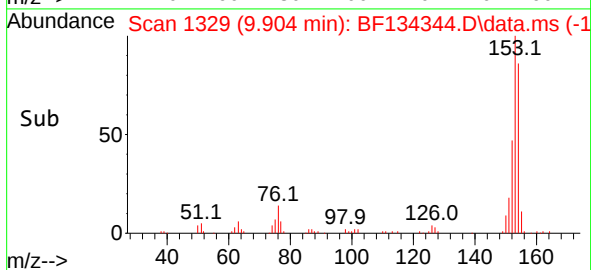
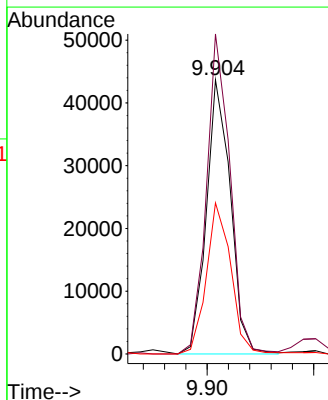
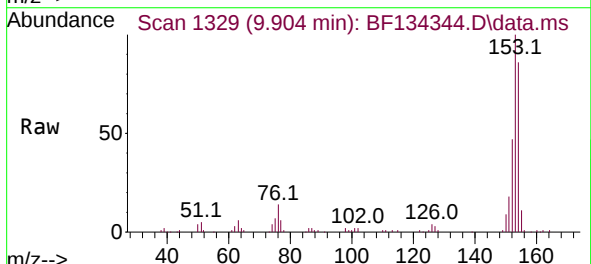
Tgt Ion:154 Resp: 34270

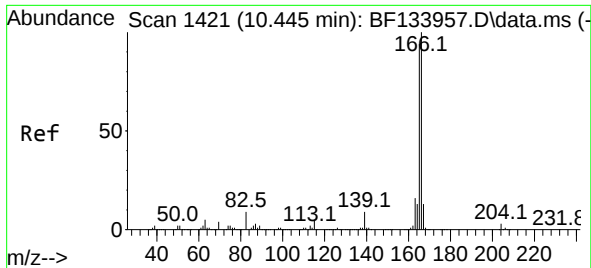
Ion Ratio Lower Upper

154 100

153 116.8 89.4 134.2

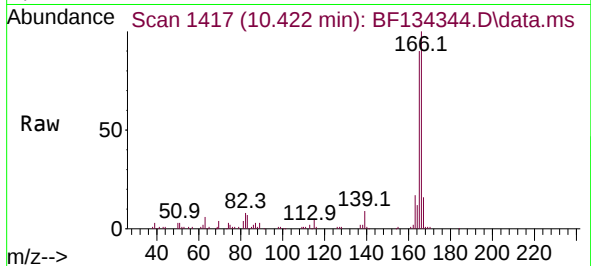
152 55.1 42.8 64.2





#58
Fluorene
Concen: 3.149 ng
RT: 10.422 min Scan# 1421
Delta R.T. -0.012 min
Lab File: BF134344.D
Acq: 18 Jul 2023 18:36

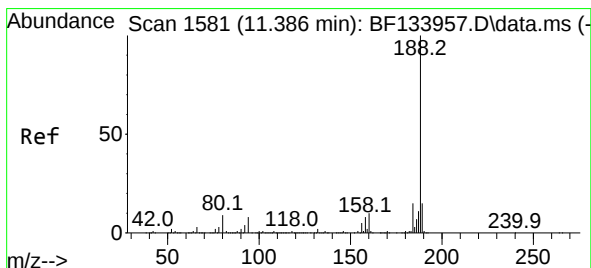
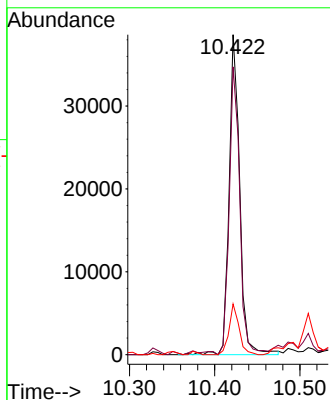
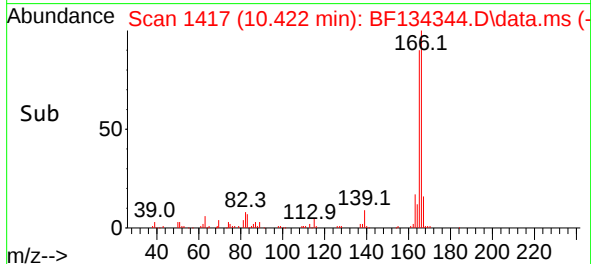
Instrument :
BNA_F
ClientSampleId :
RB-43-(0-2)



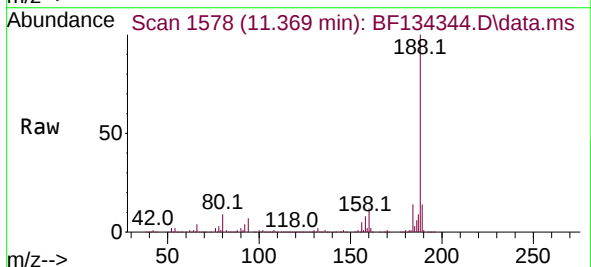
Tgt Ion:166 Resp: 3338
Ion Ratio Lower Upper
166 100
165 89.9 75.0 112.4
167 15.9 10.6 15.8

Manual Integrations
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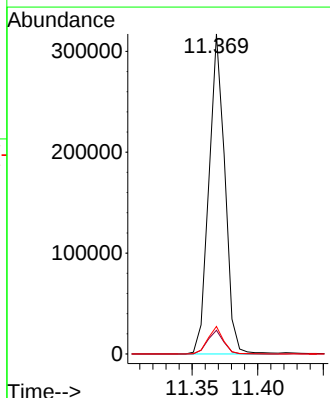
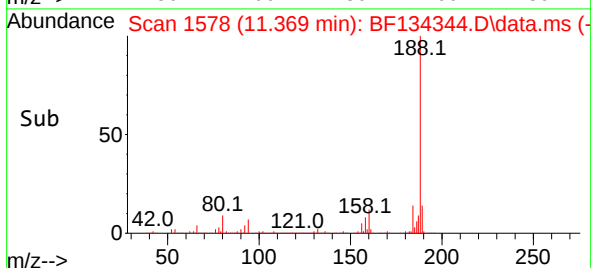
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023

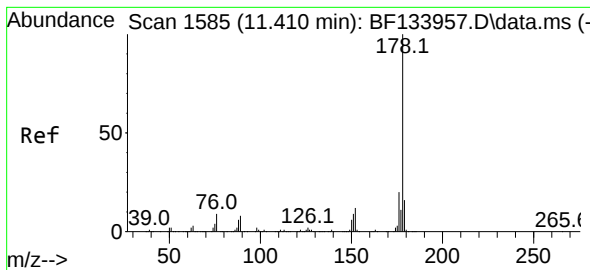


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1578
Delta R.T. -0.006 min
Lab File: BF134344.D
Acq: 18 Jul 2023 18:36



Tgt Ion:188 Resp: 268536
Ion Ratio Lower Upper
188 100
94 7.4 6.4 9.6
80 8.6 7.3 10.9





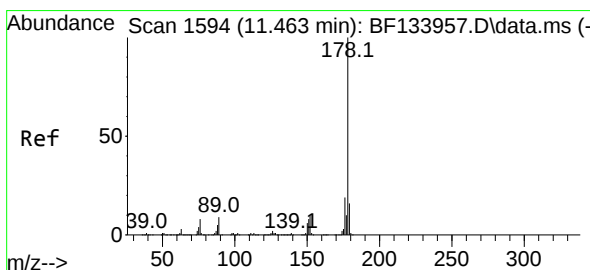
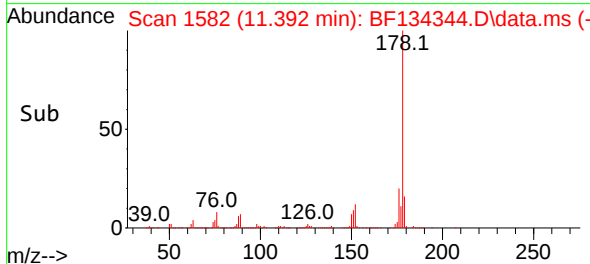
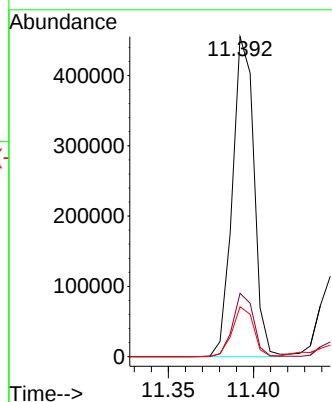
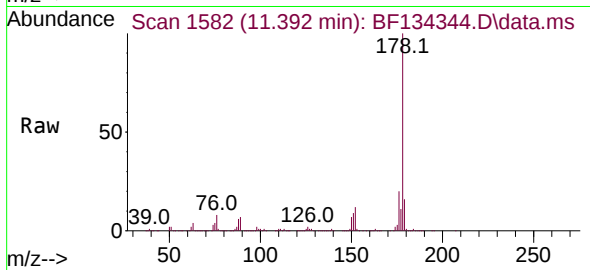
#71
Phenanthrene
Concen: 29.684 ng
RT: 11.392 min Scan# 1582
Delta R.T. -0.012 min
Lab File: BF134344.D
Acq: 18 Jul 2023 18:36

Instrument :
BNA_F
ClientSampleId :
RB-43-(0-2)

Tgt Ion:178 Resp: 401285
Ion Ratio Lower Upper
178 100
176 19.8 16.0 24.0
179 15.6 12.4 18.6

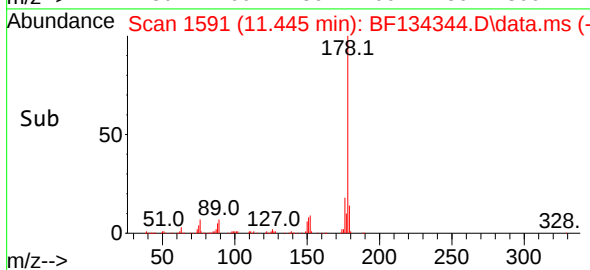
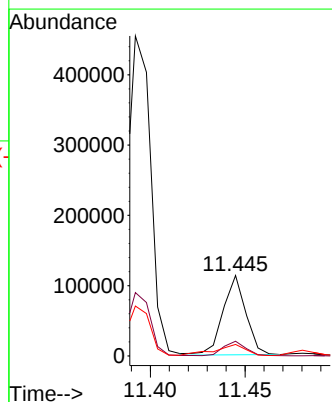
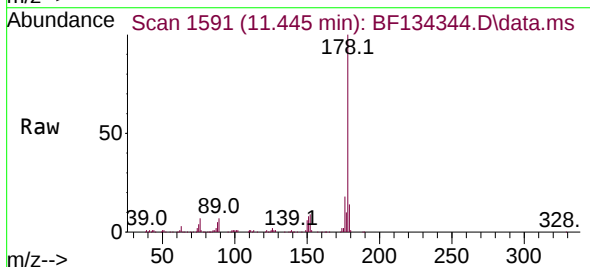
Manual Integrations
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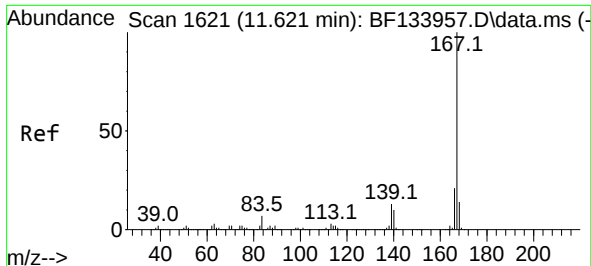
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#72
Anthracene
Concen: 6.754 ng
RT: 11.445 min Scan# 1591
Delta R.T. -0.012 min
Lab File: BF134344.D
Acq: 18 Jul 2023 18:36

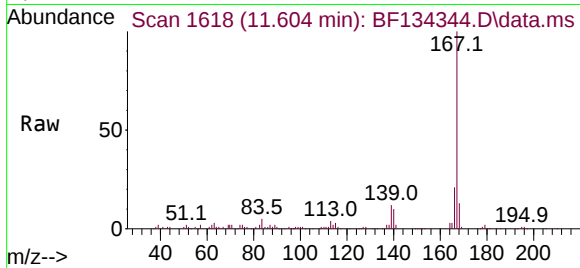
Tgt Ion:178 Resp: 94960
Ion Ratio Lower Upper
178 100
176 18.4 15.3 22.9
179 14.3 12.4 18.6





#73
 Carbazole
 Concen: 3.685 ng
 RT: 11.604 min Scan# 1618
 Delta R.T. -0.012 min
 Lab File: BF134344.D
 Acq: 18 Jul 2023 18:36

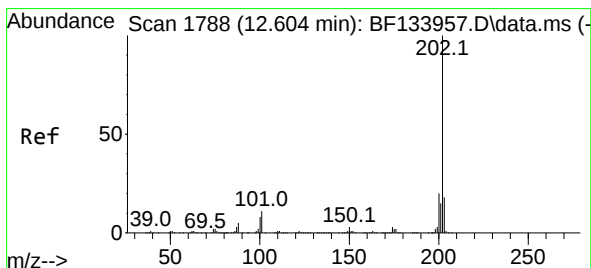
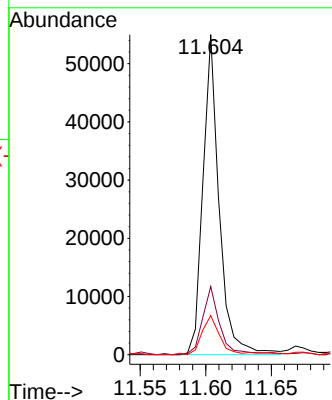
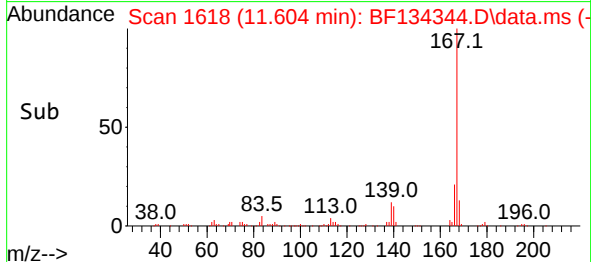
Instrument :
 BNA_F
 ClientSampleId :
 RB-43-(0-2)



Tgt Ion:167 Resp: 47423
 Ion Ratio Lower Upper
 167 100
 166 21.3 17.0 25.6
 139 12.2 10.4 15.6

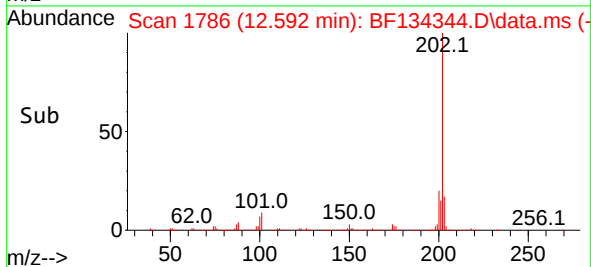
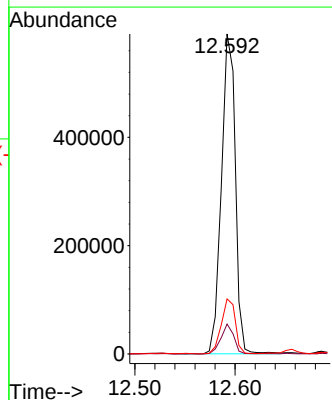
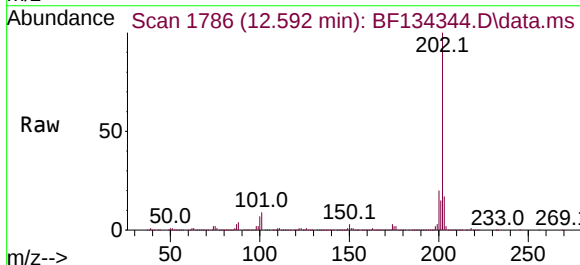
Manual Integrations
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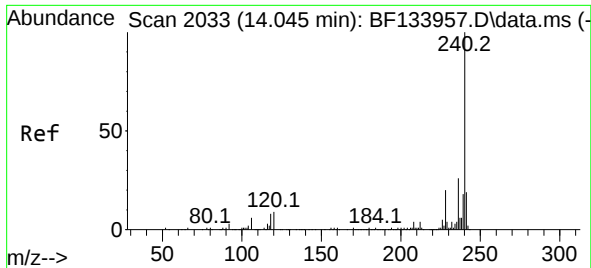
Reviewed By :Yogesh Patel 07/19/2023
 Supervised By :mohammad ahmed 07/19/2023



#75
 Fluoranthene
 Concen: 38.841 ng
 RT: 12.592 min Scan# 1786
 Delta R.T. -0.006 min
 Lab File: BF134344.D
 Acq: 18 Jul 2023 18:36

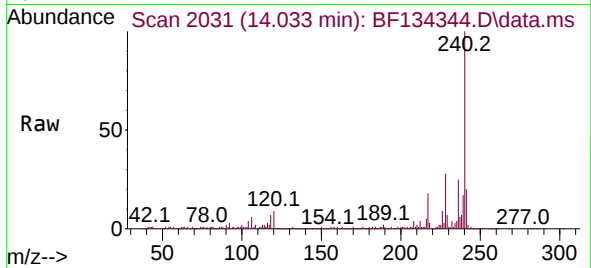
Tgt Ion:202 Resp: 567650
 Ion Ratio Lower Upper
 202 100
 101 9.4 0.0 31.0
 203 17.2 0.0 37.6





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2031
Delta R.T. -0.006 min
Lab File: BF134344.D
Acq: 18 Jul 2023 18:36

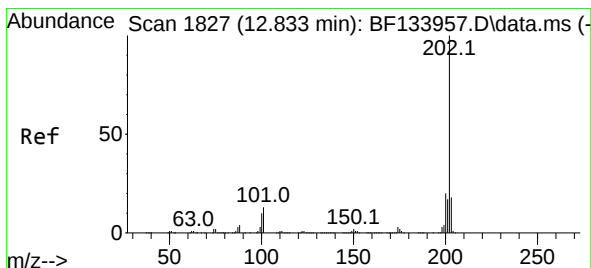
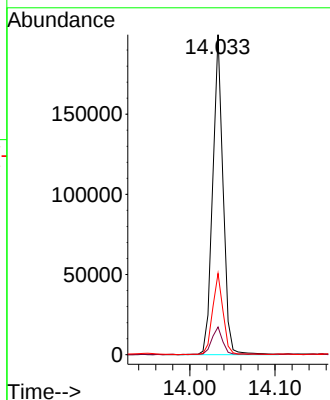
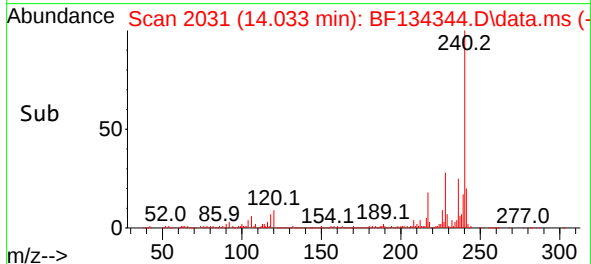
Instrument :
BNA_F
ClientSampleId :
RB-43-(0-2)



Tgt Ion:240 Resp: 16886
Ion Ratio Lower Upper
240 100
120 8.6 7.4 11.0
236 25.4 21.0 31.6

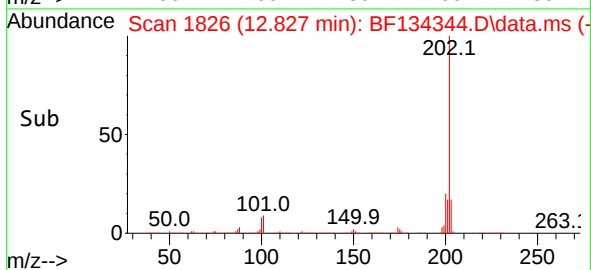
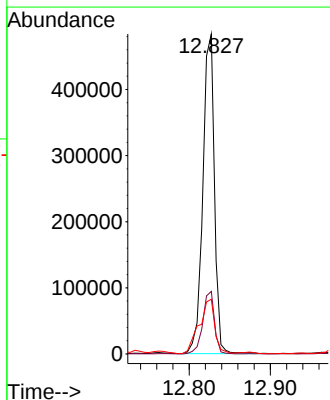
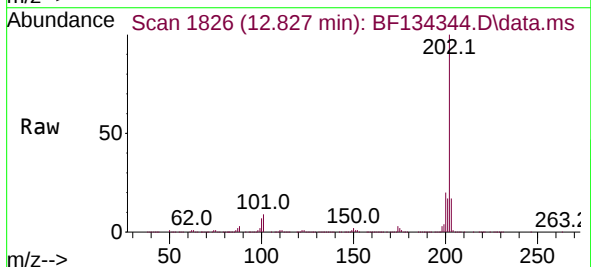
Manual Integrations
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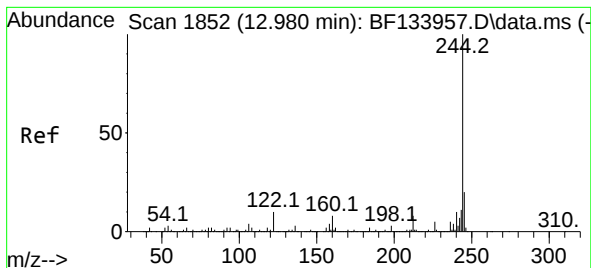
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#78
Pyrene
Concen: 30.467 ng
RT: 12.827 min Scan# 1826
Delta R.T. -0.006 min
Lab File: BF134344.D
Acq: 18 Jul 2023 18:36

Tgt Ion:202 Resp: 478798
Ion Ratio Lower Upper
202 100
200 19.6 16.1 24.1
203 17.1 14.3 21.5





#79

Terphenyl-d14

Concen: 45.676 ng

RT: 12.963 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF134344.D

Acq: 18 Jul 2023 18:36

Instrument :

BNA_F

ClientSampleId :

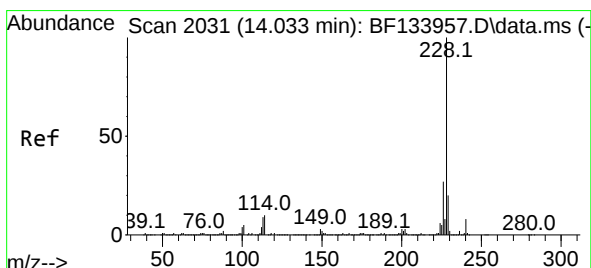
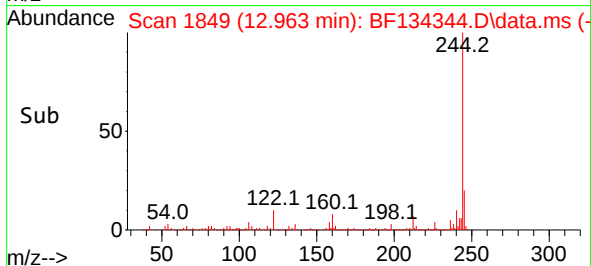
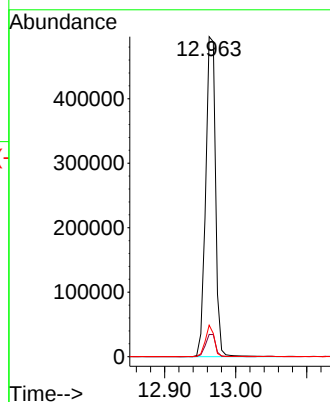
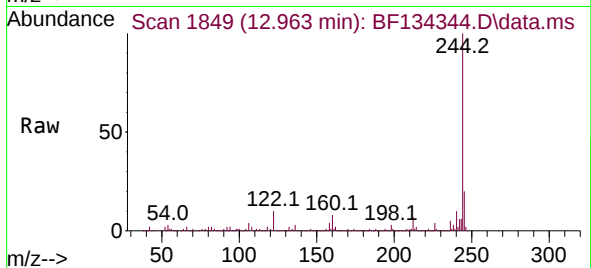
RB-43-(0-2)

Tgt Ion:244 Resp: 47925
 Ion Ratio Lower Upper
 244 100
 212 6.9 6.0 9.0
 122 9.9 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/19/2023
 Supervised By :mohammad ahmed 07/19/2023



#81

Benzo(a)anthracene

Concen: 21.759 ng

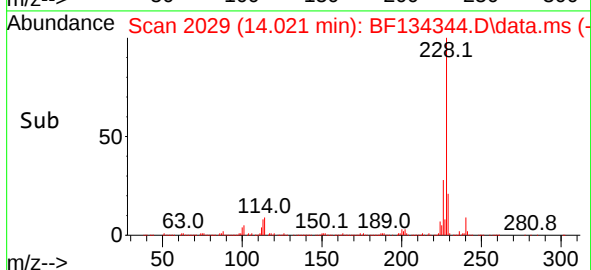
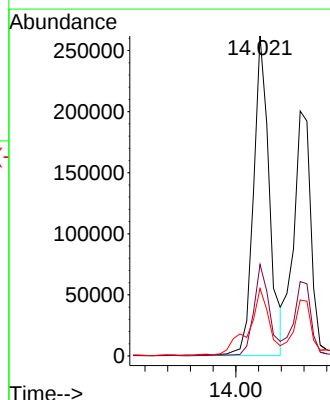
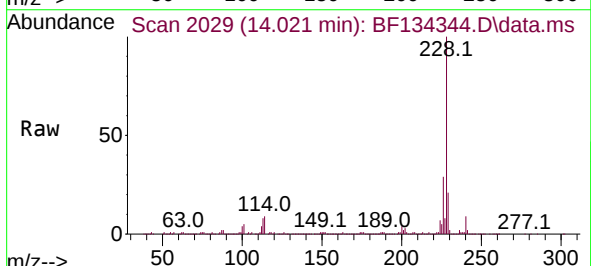
RT: 14.021 min Scan# 2029

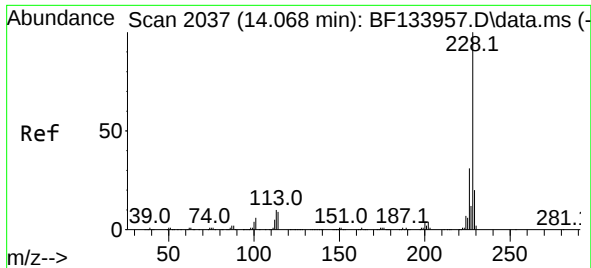
Delta R.T. -0.006 min

Lab File: BF134344.D

Acq: 18 Jul 2023 18:36

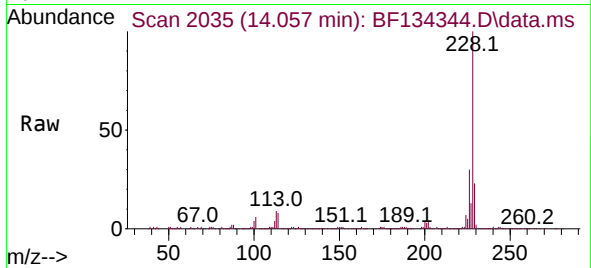
Tgt Ion:228 Resp: 254823
 Ion Ratio Lower Upper
 228 100
 226 28.6 22.0 33.0
 229 21.1 16.3 24.5





#83
Chrysene
Concen: 18.815 ng
RT: 14.057 min Scan# 2035
Delta R.T. -0.012 min
Lab File: BF134344.D
Acq: 18 Jul 2023 18:36

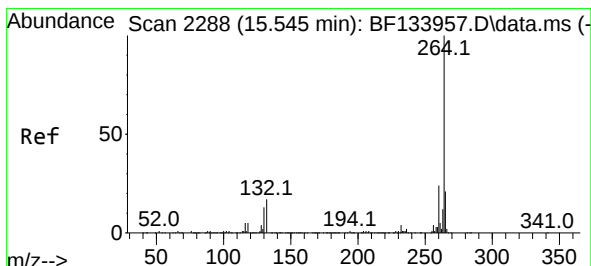
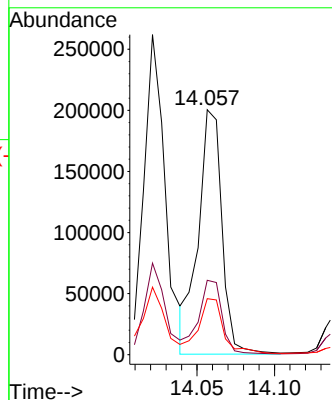
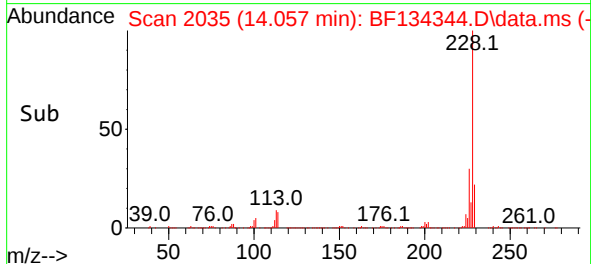
Instrument :
BNA_F
ClientSampleId :
RB-43-(0-2)



Tgt Ion:228 Resp: 21342
Ion Ratio Lower Upper
228 100
226 30.4 24.4 36.6
229 22.9 16.1 24.1

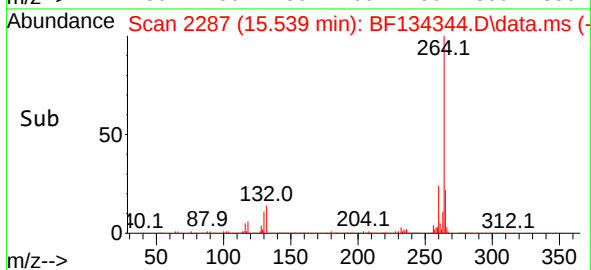
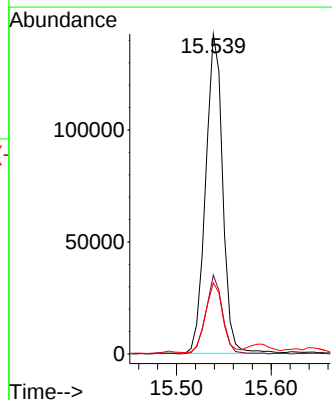
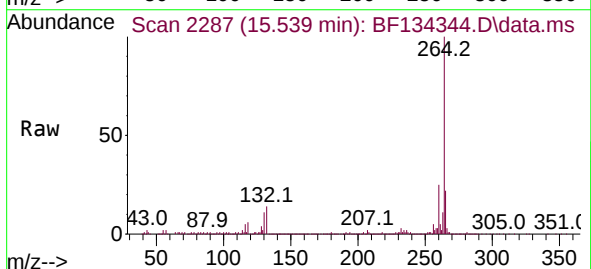
Manual Integrations
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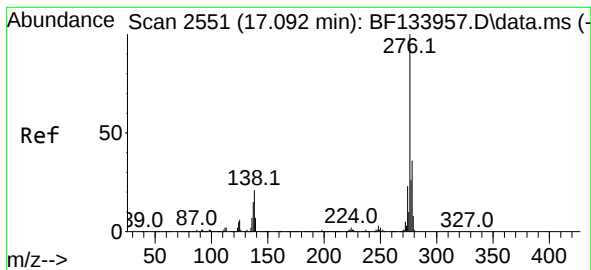
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2287
Delta R.T. -0.006 min
Lab File: BF134344.D
Acq: 18 Jul 2023 18:36

Tgt Ion:264 Resp: 177589
Ion Ratio Lower Upper
264 100
260 24.7 19.5 29.3
265 22.3 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 9.934 ng m

RT: 17.086 min Scan# 211

Delta R.T. -0.012 min

Lab File: BF134344.D

Acq: 18 Jul 2023 18:36

Instrument :

BNA_F

ClientSampleId :

RB-43-(0-2)

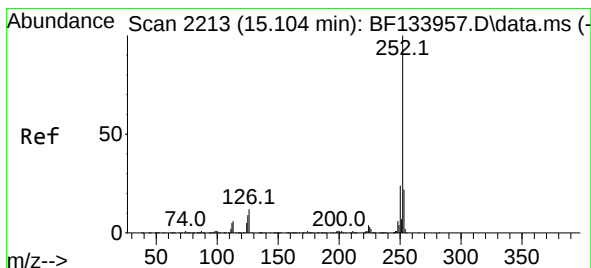
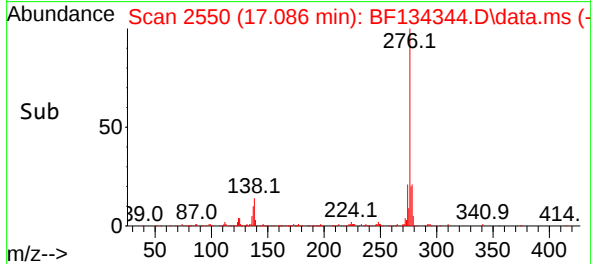
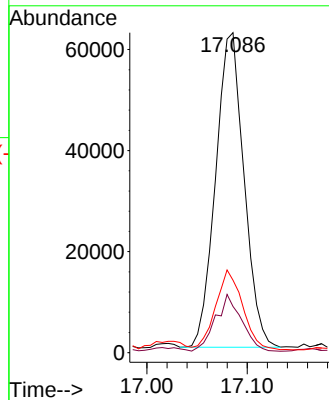
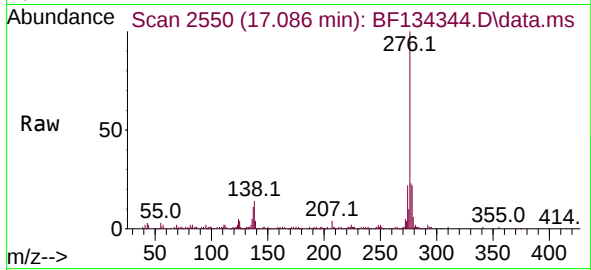
Tgt Ion:	276	Resp:	12241
Ion Ratio	Lower	Upper	
276	100		
138	4.1	18.7	28.1
277	4.9	19.9	29.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/19/2023

Supervised By :mohammad ahmed 07/19/2023



#88

Benzo(b)fluoranthene

Concen: 26.837 ng m

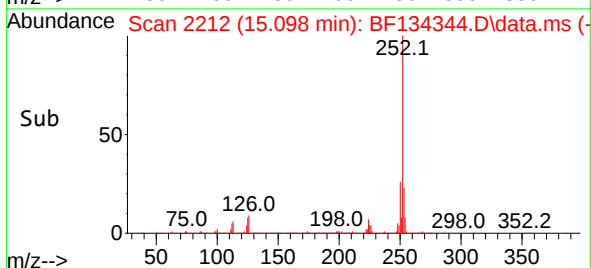
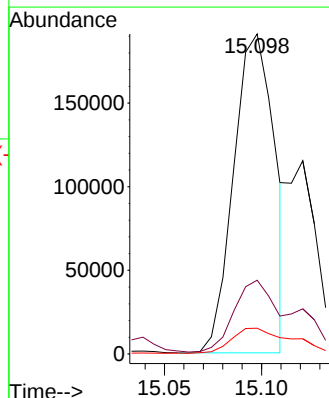
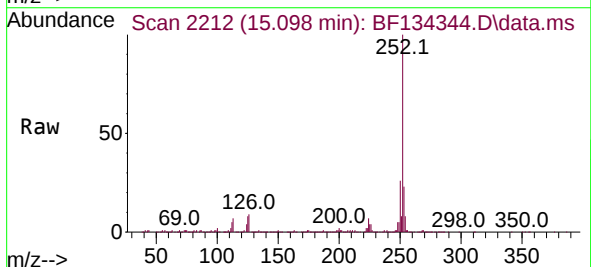
RT: 15.098 min Scan# 2212

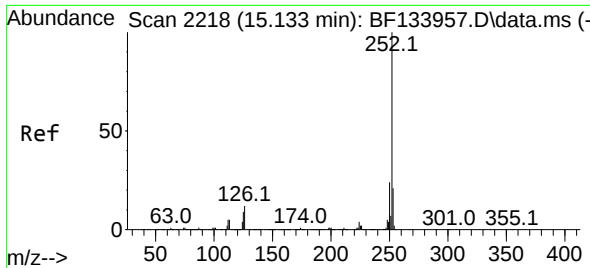
Delta R.T. -0.006 min

Lab File: BF134344.D

Acq: 18 Jul 2023 18:36

Tgt Ion:	252	Resp:	280245
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.4	26.0
125	8.0	7.1	10.7





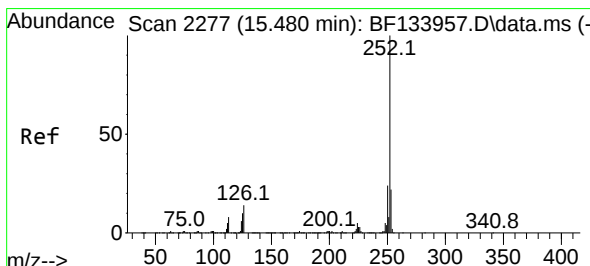
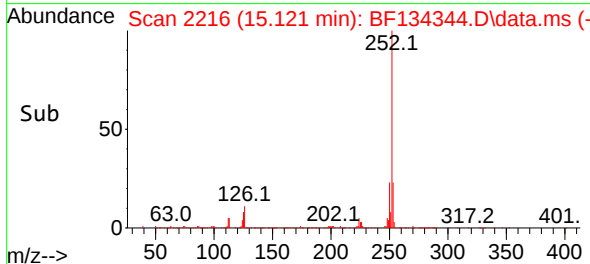
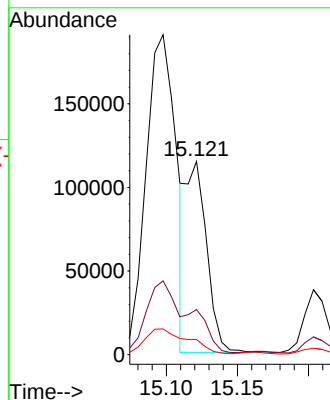
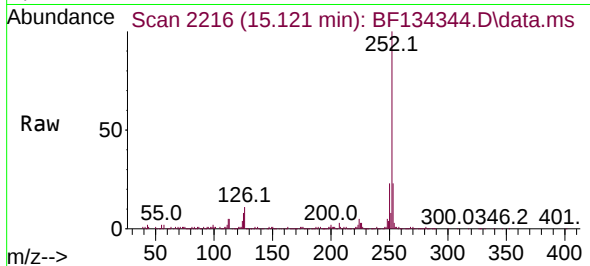
#89
Benzo(k)fluoranthene
Concen: 10.914 ng m
RT: 15.121 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF134344.D
Acq: 18 Jul 2023 18:36

Instrument :
BNA_F
ClientSampleId :
RB-43-(0-2)

Tgt Ion:252 Resp: 116038
Ion Ratio Lower Upper
252 100
253 23.4 16.9 25.3
125 7.8 7.4 11.2

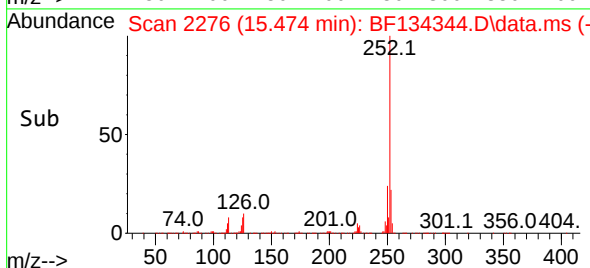
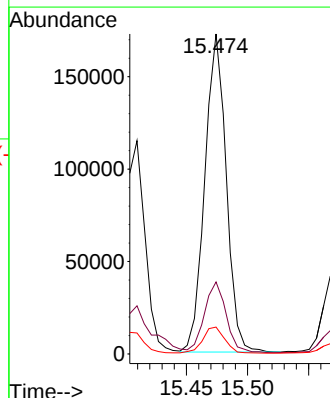
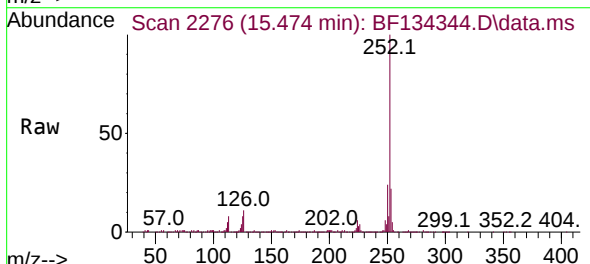
Manual Integrations
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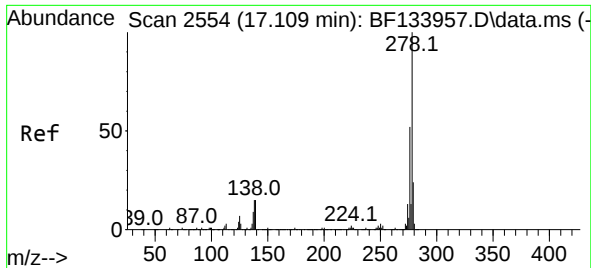
Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#90
Benzo(a)pyrene
Concen: 20.818 ng m
RT: 15.474 min Scan# 2276
Delta R.T. -0.006 min
Lab File: BF134344.D
Acq: 18 Jul 2023 18:36

Tgt Ion:252 Resp: 210218
Ion Ratio Lower Upper
252 100
253 22.5 17.4 26.0
125 8.4 8.4 12.6#





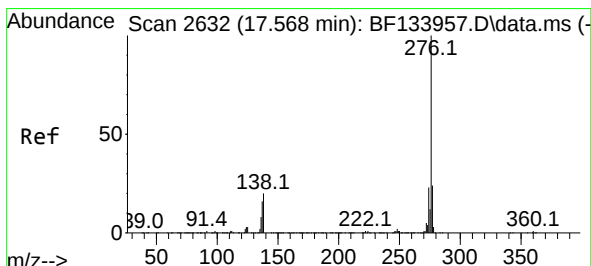
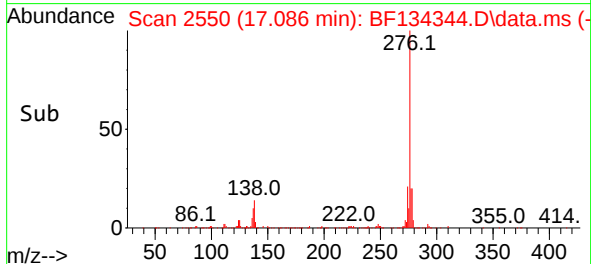
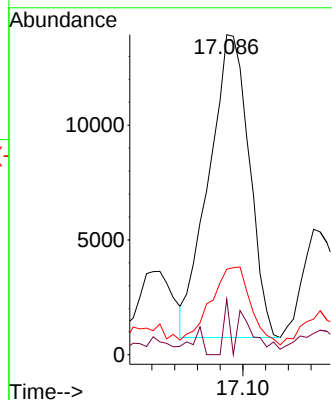
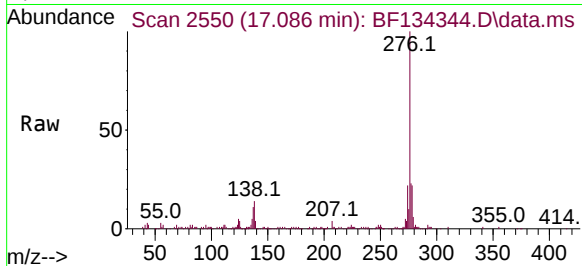
#91
Dibenzo(a,h)anthracene
Concen: 3.236 ng
RT: 17.086 min Scan# 21
Delta R.T. -0.024 min
Lab File: BF134344.D
Acq: 18 Jul 2023 18:36

Instrument :
BNA_F
ClientSampleId :
RB-43-(0-2)

Tgt Ion:278 Resp: 32570
Ion Ratio Lower Upper
278 100
139 17.4 12.2 18.4
279 26.7 19.4 29.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/19/2023
Supervised By :mohammad ahmed 07/19/2023



#92
Benzo(g,h,i)perylene
Concen: 10.782 ng
RT: 17.550 min Scan# 2629
Delta R.T. -0.018 min
Lab File: BF134344.D
Acq: 18 Jul 2023 18:36

Tgt Ion:276 Resp: 111909
Ion Ratio Lower Upper
276 100
277 24.6 19.0 28.6
138 16.4 16.2 24.2

