

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070823\
 Data File : BF134181.D
 Acq On : 09 Jul 2023 10:29
 Operator : CG\JU
 Sample : 03497-01DL 10X
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OK-2-063023DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/10/2023
 Supervised By :mohammad ahmed 07/10/2023

Quant Time: Jul 10 01:51:29 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 30 18:35:29 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	127188	20.000	ng	0.00
21) Naphthalene-d8	8.122	136	480381	20.000	ng	-0.01
39) Acenaphthene-d10	9.880	164	213568	20.000	ng	-0.01
64) Phenanthrene-d10	11.374	188	350775	20.000	ng	-0.01
76) Chrysene-d12	14.033	240	214389	20.000	ng	-0.02
86) Perylene-d12	15.539	264	200121	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	75067	9.873	ng	-0.02
7) Phenol-d6	6.469	99	94493	10.105	ng	-0.02
23) Nitrobenzene-d5	7.404	82	63158	7.087	ng	-0.02
42) 2,4,6-Tribromophenol	10.674	330	17249	6.442	ng	-0.01
45) 2-Fluorobiphenyl	9.198	172	129904	8.843	ng	-0.01
79) Terphenyl-d14	12.968	244	97495	7.319	ng	-0.02
Target Compounds						Qvalue
38) 1-Methylnaphthalene	8.933	142	35568	2.332	ng	94
52) Acenaphthene	9.910	154	67721	5.451	ng	100
55) Dibenzofuran	10.086	168	63718	3.281	ng	# 94
58) Fluorene	10.427	166	131956	8.735	ng	99
71) Phenanthrene	11.404	178	747906	42.354	ng	99
72) Anthracene	11.451	178	167902	9.142	ng	98
73) Carbazole	11.610	167	66916	3.980	ng	99
75) Fluoranthene	12.598	202	703489	36.850	ng	99
78) Pyrene	12.827	202	628840	31.518	ng	100
81) Benzo(a)anthracene	14.027	228	242518	16.311	ng	95
83) Chrysene	14.062	228	238401	16.555	ng	96
87) Indeno(1,2,3-cd)pyrene	17.080	276	80913	5.827	ng	96
88) Benzo(b)fluoranthene	15.098	252	210017m	17.848	ng	
89) Benzo(k)fluoranthene	15.121	252	64533m	5.386	ng	
90) Benzo(a)pyrene	15.474	252	159275	13.997	ng	99
92) Benzo(g,h,i)perylene	17.550	276	80295	6.865	ng	99

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

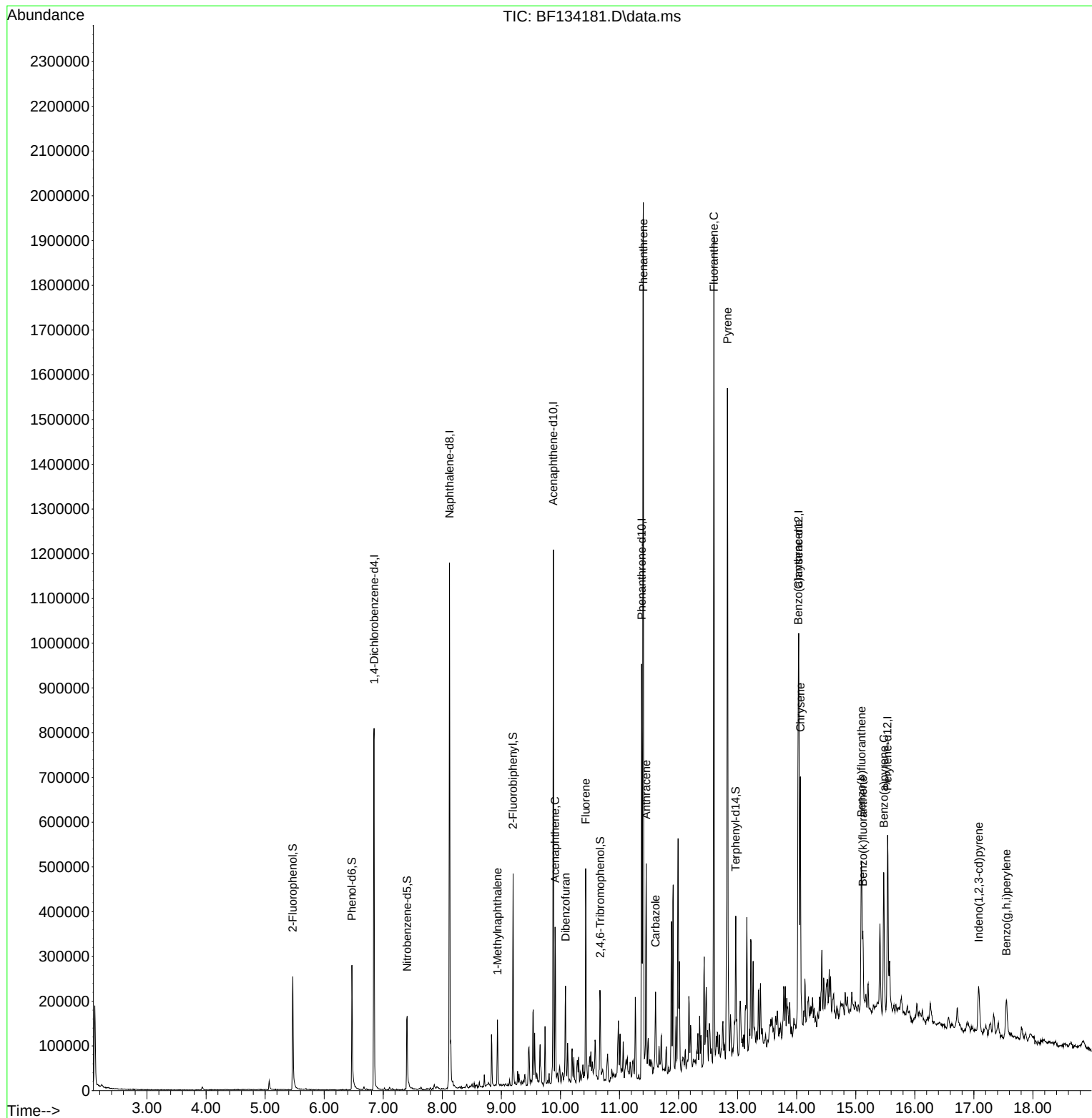
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070823\
Data File : BF134181.D
Acq On : 09 Jul 2023 10:29
Operator : CG\JU
Sample : 03497-01DL 10X
Misc :
ALS Vial : 39 Sample Multiplier: 1

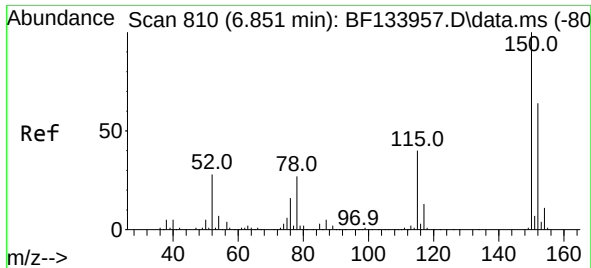
Instrument :
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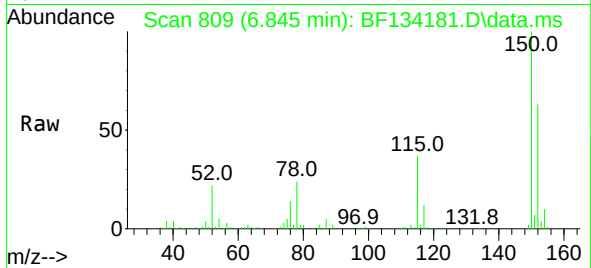
Quant Time: Jul 10 01:51:29 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 30 18:35:29 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 809
Delta R.T. -0.006 min
Lab File: BF134181.D
Acq: 09 Jul 2023 10:29

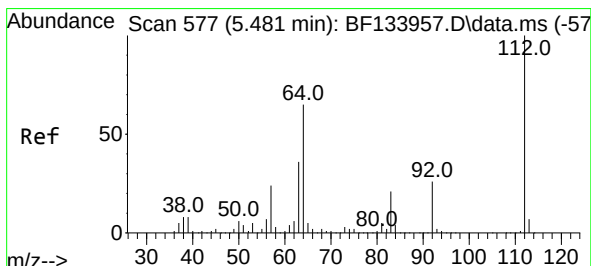
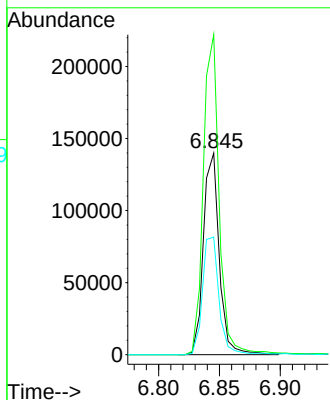
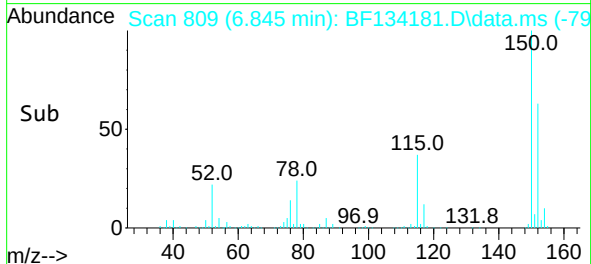
Instrument :
BNA_F
ClientSampleId :
OK-2-063023DL



Tgt Ion:152 Resp: 127188
Ion Ratio Lower Upper
152 100
150 158.7 124.5 186.7
115 58.3 50.2 75.2

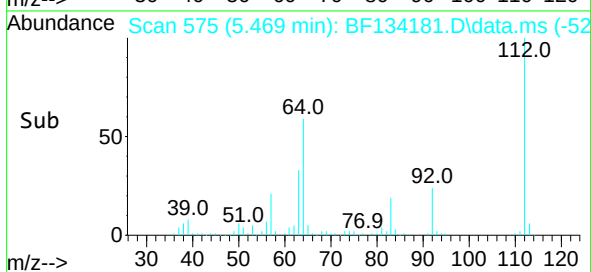
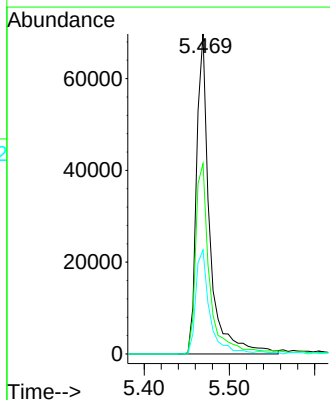
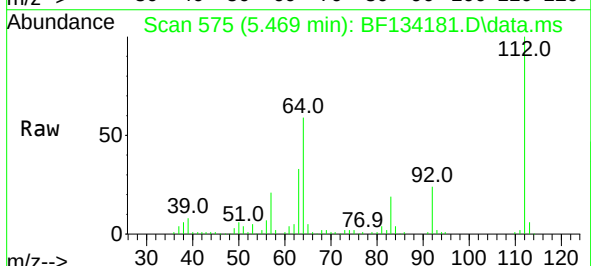
Manual Integrations
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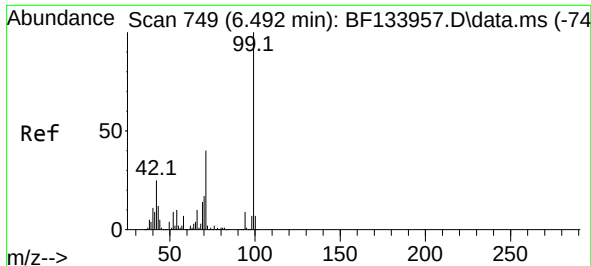
Reviewed By :Yogesh Patel 07/10/2023
Supervised By :mohammad ahmed 07/10/2023



#5
2-Fluorophenol
Concen: 9.873 ng
RT: 5.469 min Scan# 575
Delta R.T. -0.018 min
Lab File: BF134181.D
Acq: 09 Jul 2023 10:29

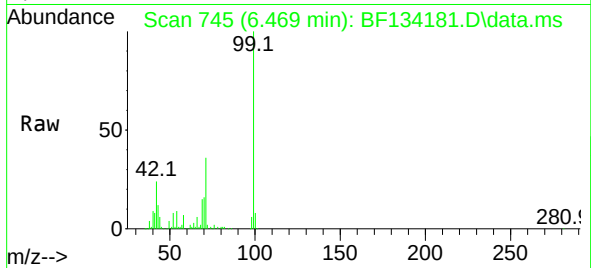
Tgt Ion:112 Resp: 75067
Ion Ratio Lower Upper
112 100
64 59.5 52.1 78.1
63 32.5 28.6 42.8





#7
Phenol-d6
Concen: 10.105 ng
RT: 6.469 min Scan# 749
Delta R.T. -0.024 min
Lab File: BF134181.D
Acq: 09 Jul 2023 10:29

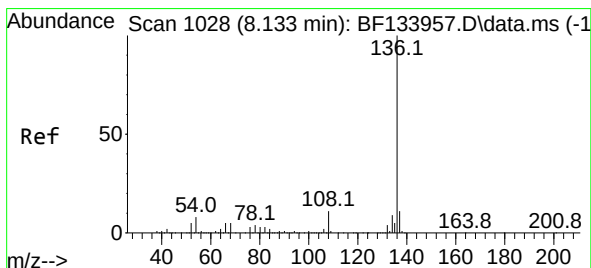
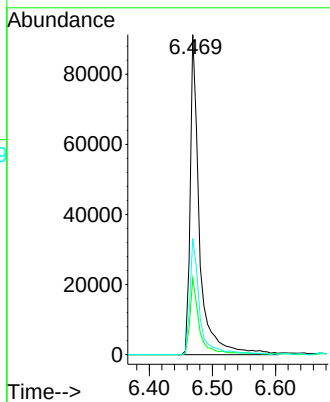
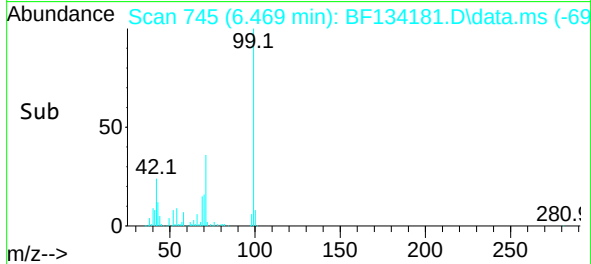
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ClientSampleId :
OK-2-063023DL



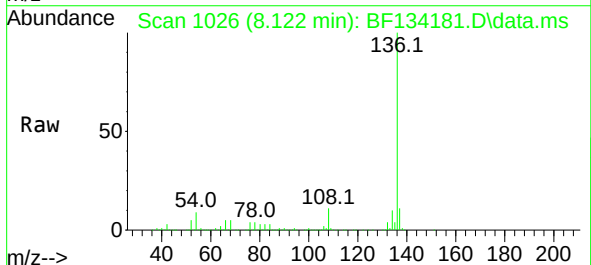
Tgt Ion: 99 Resp: 9449
Ion Ratio Lower Upper
99 100
42 23.9 19.8 29.6
71 36.3 31.9 47.9

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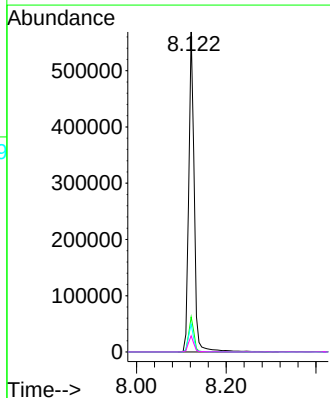
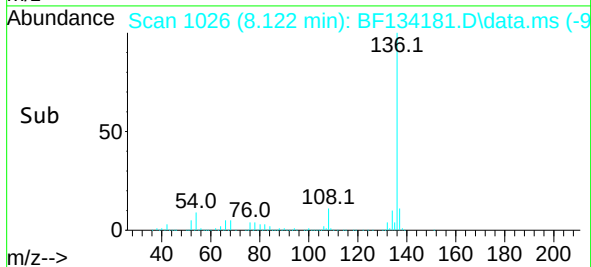
Reviewed By :Yogesh Patel 07/10/2023
Supervised By :mohammad ahmed 07/10/2023

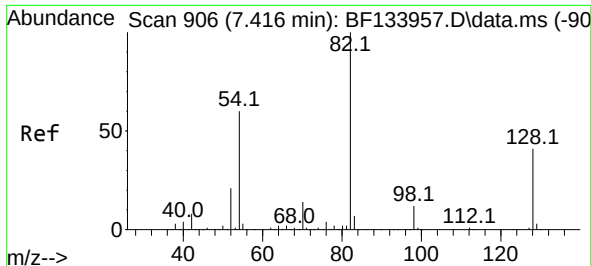


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.012 min
Lab File: BF134181.D
Acq: 09 Jul 2023 10:29



Tgt Ion:136 Resp: 480381
Ion Ratio Lower Upper
136 100
137 11.0 8.6 12.8
54 8.7 6.5 9.7
68 5.1 4.2 6.2





#23

Nitrobenzene-d5

Concen: 7.087 ng

RT: 7.404 min Scan# 906

Delta R.T. -0.018 min

Lab File: BF134181.D

Acq: 09 Jul 2023 10:29

Instrument :

BNA_F

ClientSampleId :

OK-2-063023DL

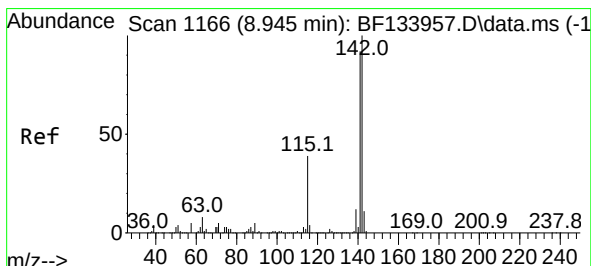
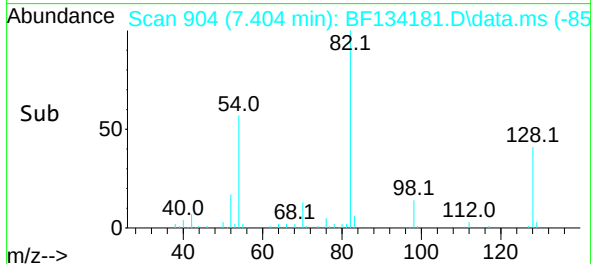
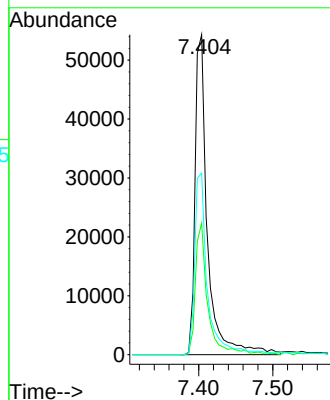
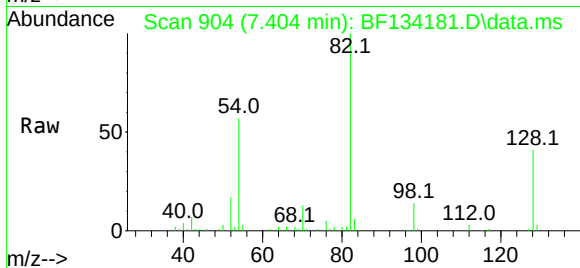
Tgt Ion: 82 Resp: 63158
 Ion Ratio Lower Upper
 82 100
 128 41.1 32.5 48.7
 54 56.8 48.2 72.2

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#38

1-Methylnaphthalene

Concen: 2.332 ng

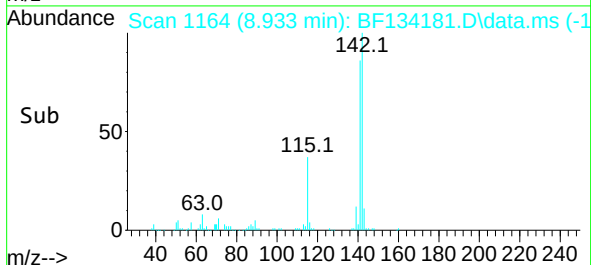
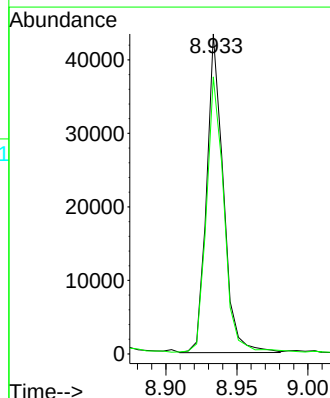
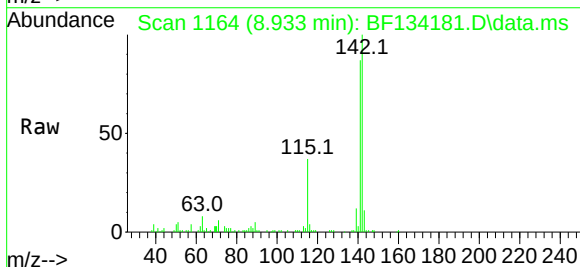
RT: 8.933 min Scan# 1164

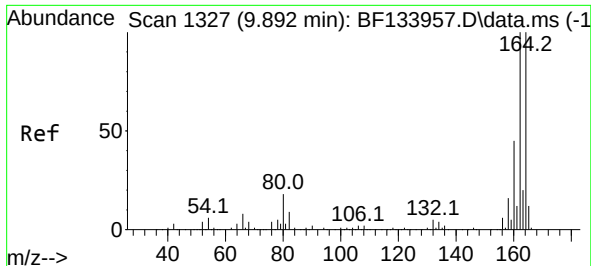
Delta R.T. -0.012 min

Lab File: BF134181.D

Acq: 09 Jul 2023 10:29

Tgt Ion:142 Resp: 35568
 Ion Ratio Lower Upper
 142 100
 141 86.6 73.5 110.3





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.880 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF134181.D

Acq: 09 Jul 2023 10:29

Instrument :

BNA_F

ClientSampleId :

OK-2-063023DL

Tgt Ion:164 Resp: 21356

Ion Ratio Lower Upper

164 100

162 102.9 80.0 120.0

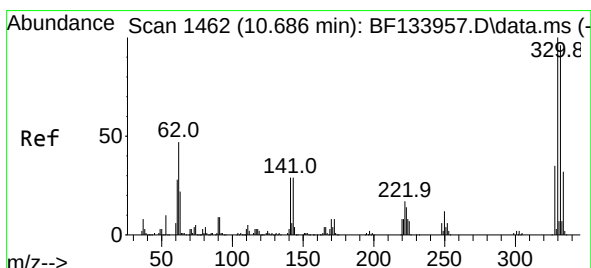
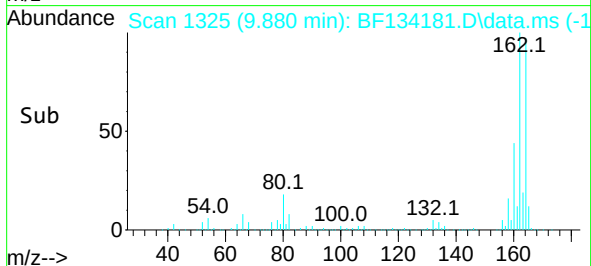
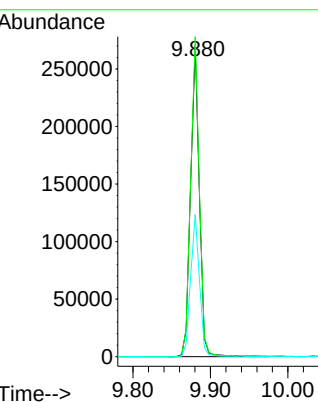
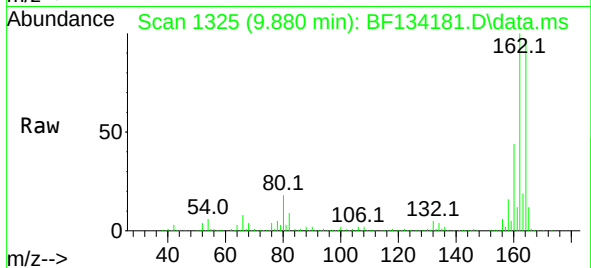
160 45.7 35.9 53.9

Manual Integrations

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Supervised By :mohammad ahmed 07/10/2023



#42

2,4,6-Tribromophenol

Concen: 6.442 ng

RT: 10.674 min Scan# 1460

Delta R.T. -0.012 min

Lab File: BF134181.D

Acq: 09 Jul 2023 10:29

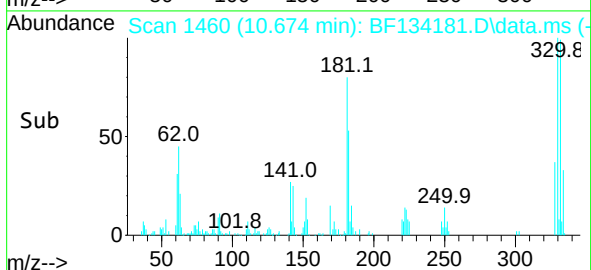
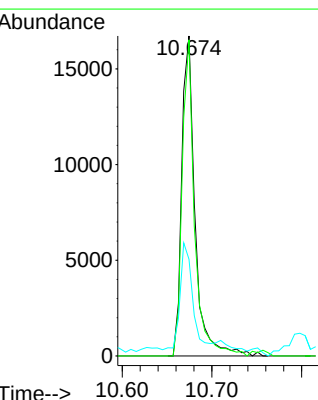
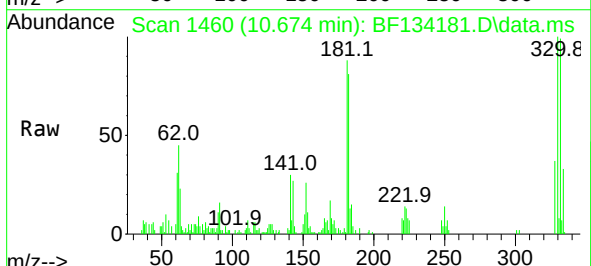
Tgt Ion:330 Resp: 17249

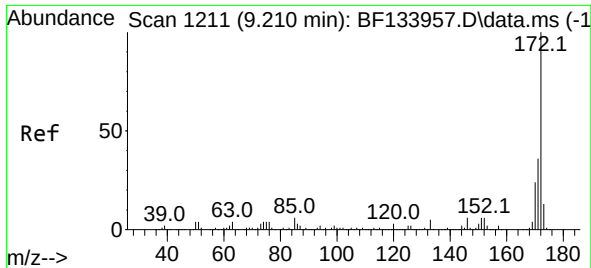
Ion Ratio Lower Upper

330 100

332 92.1 77.0 115.6

141 31.1 26.3 39.5





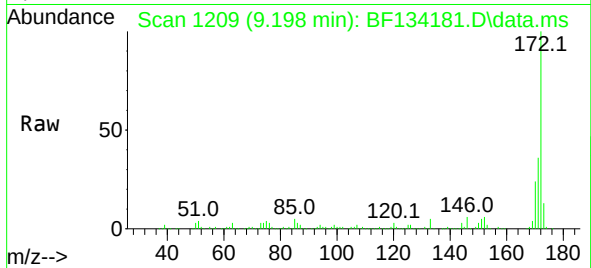
#45
2-Fluorobiphenyl
Concen: 8.843 ng
RT: 9.198 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134181.D
Acq: 09 Jul 2023 10:29

Instrument :

BNA_F

ClientSampleId :

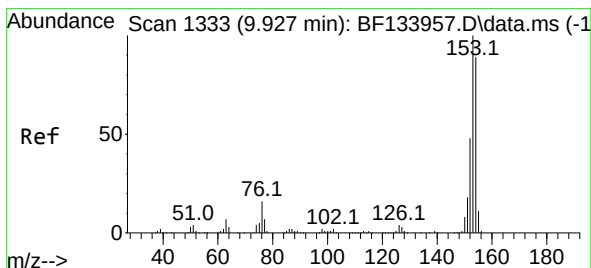
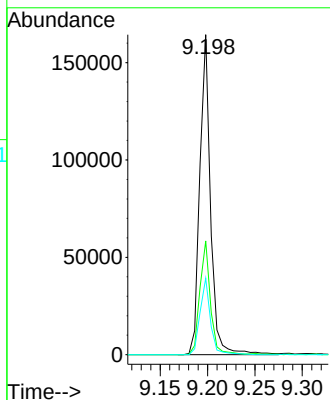
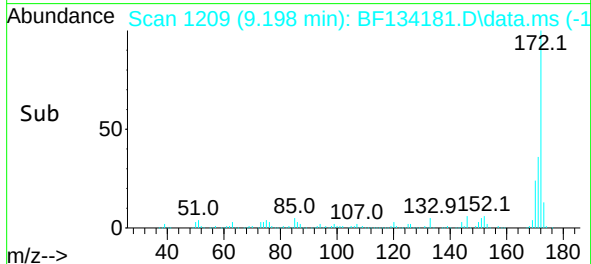
OK-2-063023DL



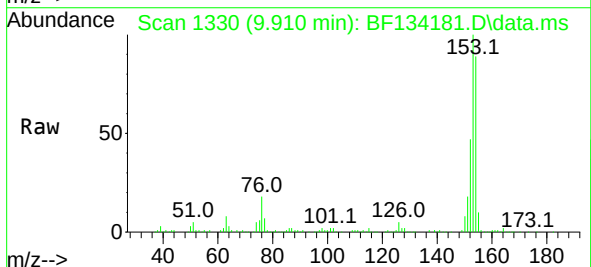
Tgt Ion:172 Resp: 129904
Ion Ratio Lower Upper
172 100
171 35.6 28.6 43.0
170 23.9 19.4 29.0

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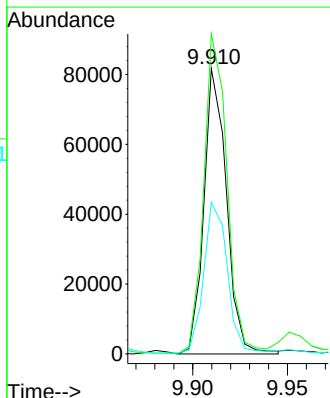
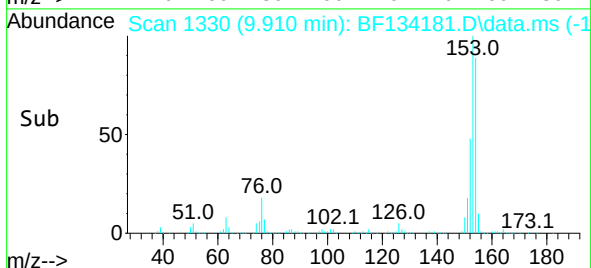
Reviewed By :Yogesh Patel 07/10/2023
Supervised By :mohammad ahmed 07/10/2023

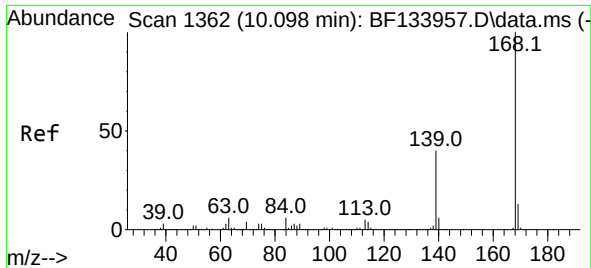


#52
Acenaphthene
Concen: 5.451 ng
RT: 9.910 min Scan# 1330
Delta R.T. -0.018 min
Lab File: BF134181.D
Acq: 09 Jul 2023 10:29



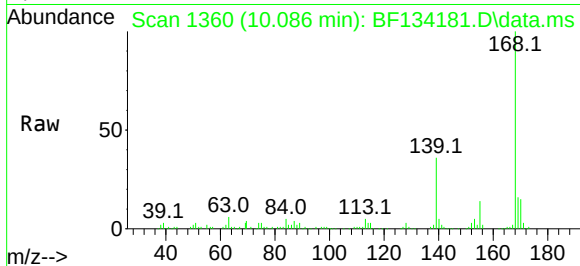
Tgt Ion:154 Resp: 67721
Ion Ratio Lower Upper
154 100
153 112.1 89.4 134.2
152 53.1 42.8 64.2





#55
Dibenzenofuran
Concen: 3.281 ng
RT: 10.086 min Scan# 1418
Delta R.T. -0.012 min
Lab File: BF134181.D
Acq: 09 Jul 2023 10:29

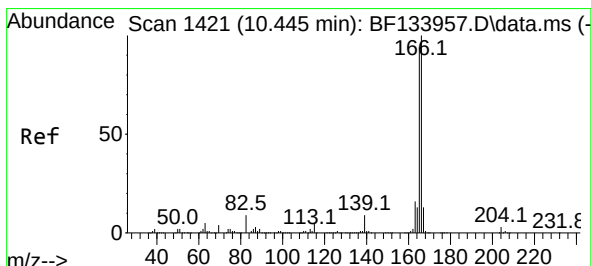
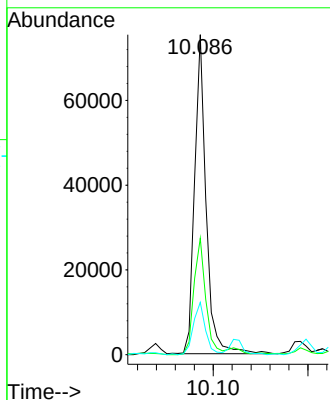
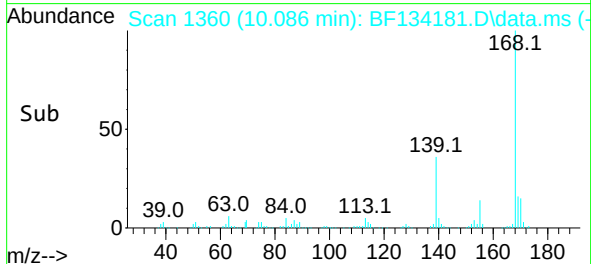
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OK-2-063023DL



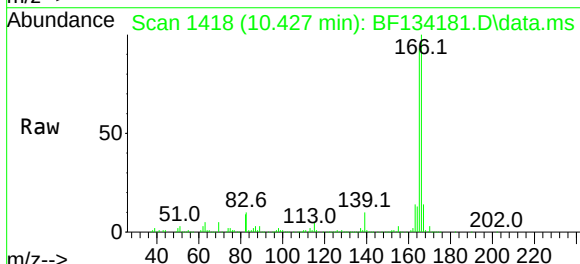
Tgt Ion:168 Resp: 63718
Ion Ratio Lower Upper
168 100
139 36.4 32.0 48.0
169 16.3 10.6 16.0

Manual Integrations
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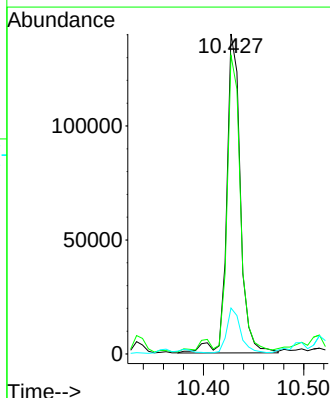
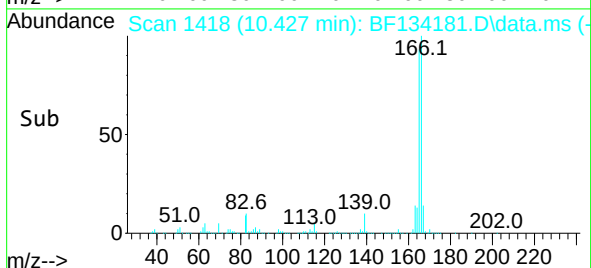
Reviewed By :Yogesh Patel 07/10/2023
Supervised By :mohammad ahmed 07/10/2023

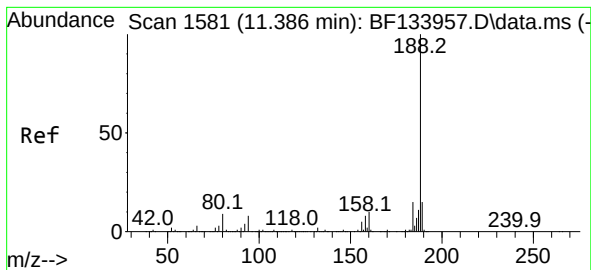


#58
Fluorene
Concen: 8.735 ng
RT: 10.427 min Scan# 1418
Delta R.T. -0.018 min
Lab File: BF134181.D
Acq: 09 Jul 2023 10:29



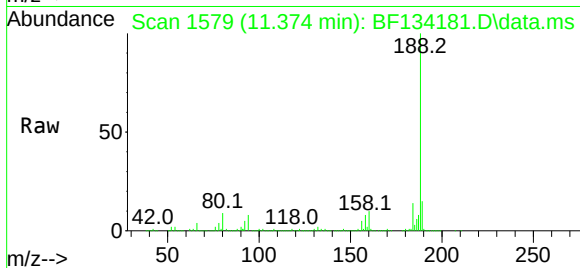
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Ion Ratio Lower Upper
166 100
165 93.3 75.0 112.4
167 14.4 10.6 15.8





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.374 min Scan# 1137
Delta R.T. -0.012 min
Lab File: BF134181.D
Acq: 09 Jul 2023 10:29

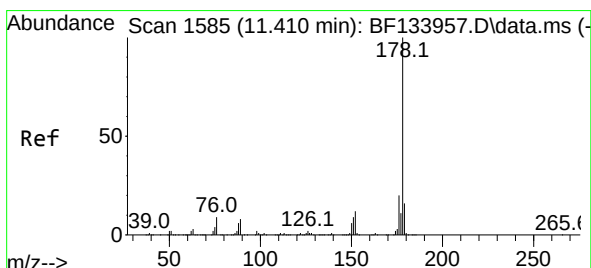
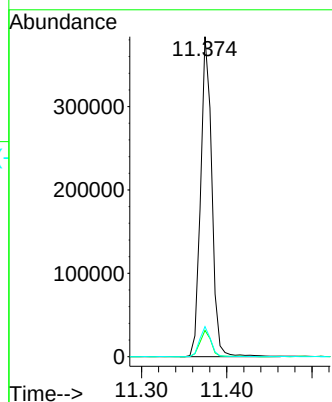
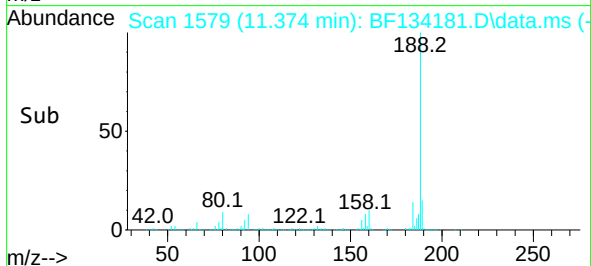
Instrument :
BNA_F
ClientSampleId :
OK-2-063023DL



Tgt Ion:188 Resp: 350775
Ion Ratio Lower Upper
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94 8.2 6.4 9.6
80 9.4 7.3 10.9

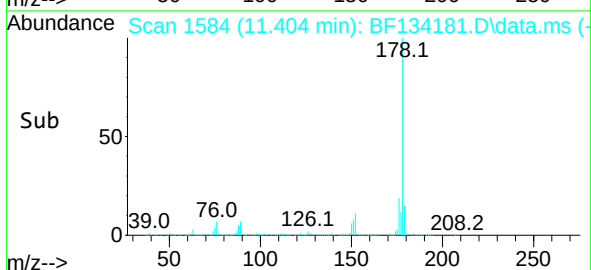
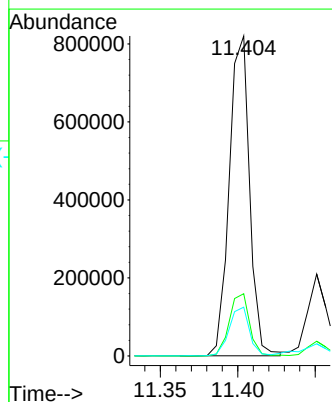
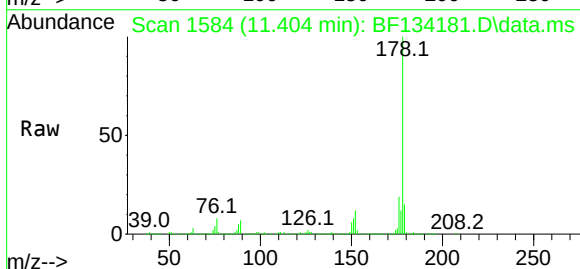
Manual Integrations
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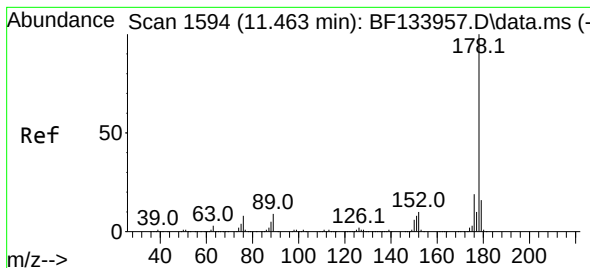
Reviewed By :Yogesh Patel 07/10/2023
Supervised By :mohammad ahmed 07/10/2023



#71
Phenanthrene
Concen: 42.354 ng
RT: 11.404 min Scan# 1584
Delta R.T. -0.006 min
Lab File: BF134181.D
Acq: 09 Jul 2023 10:29

Tgt Ion:178 Resp: 747906
Ion Ratio Lower Upper
178 100
176 19.5 16.0 24.0
179 15.2 12.4 18.6





#72

Anthracene

Concen: 9.142 ng

RT: 11.451 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF134181.D

Acq: 09 Jul 2023 10:29

Instrument :

BNA_F

ClientSampleId :

OK-2-063023DL

Tgt Ion:178 Resp: 16790

Ion Ratio Lower Upper

178 100

176 18.0 15.3 22.9

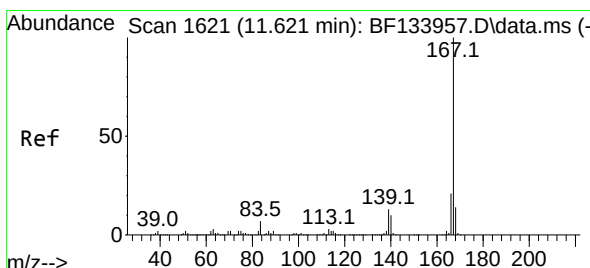
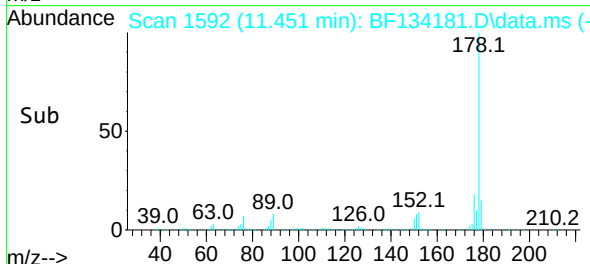
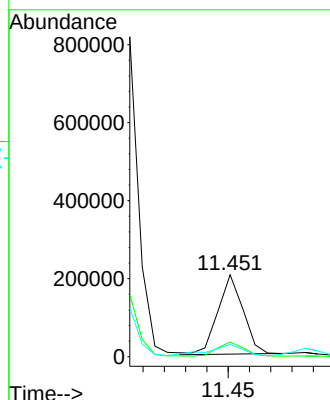
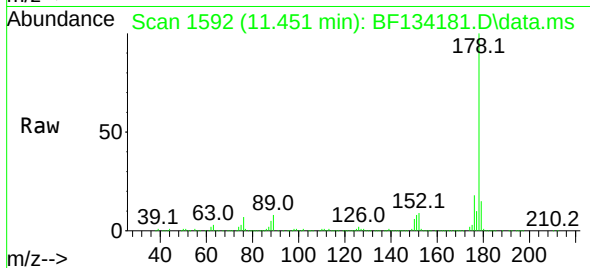
179 14.9 12.4 18.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/10/2023

Supervised By :mohammad ahmed 07/10/2023



#73

Carbazole

Concen: 3.980 ng

RT: 11.610 min Scan# 1619

Delta R.T. -0.012 min

Lab File: BF134181.D

Acq: 09 Jul 2023 10:29

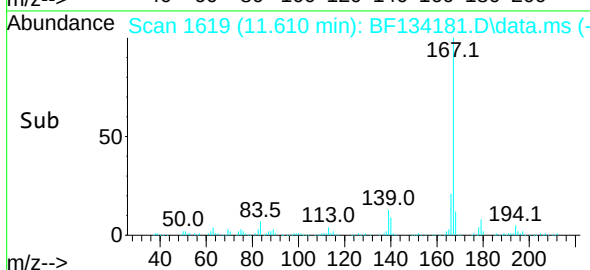
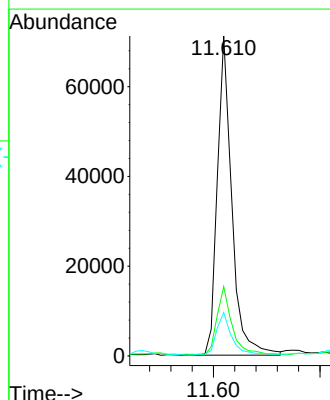
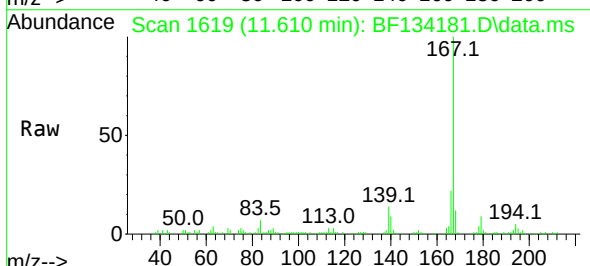
Tgt Ion:167 Resp: 66916

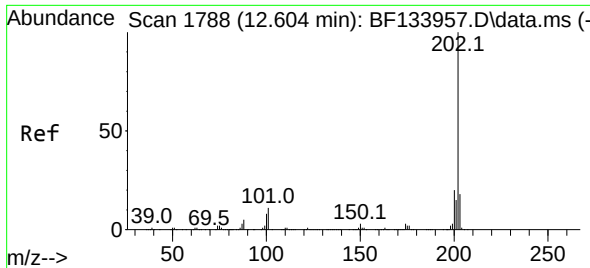
Ion Ratio Lower Upper

167 100

166 21.6 17.0 25.6

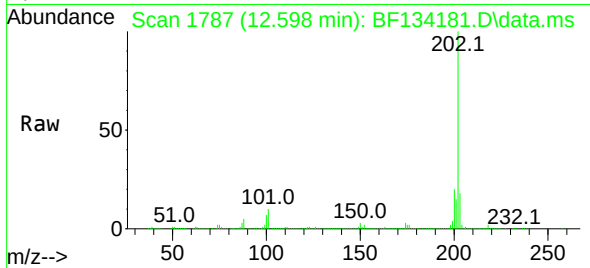
139 13.5 10.4 15.6





#75
Fluoranthene
Concen: 36.850 ng
RT: 12.598 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134181.D
Acq: 09 Jul 2023 10:29

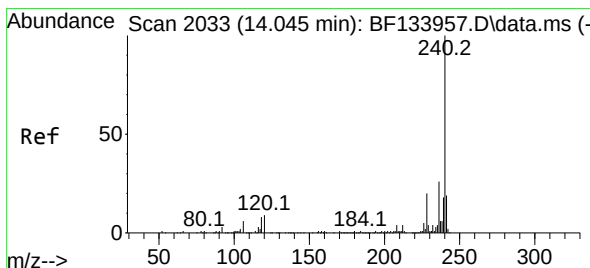
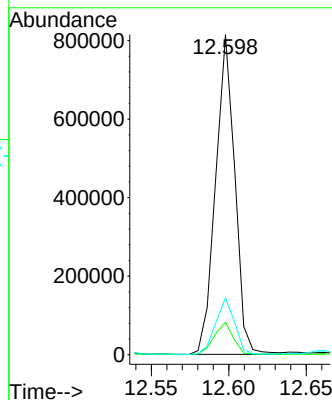
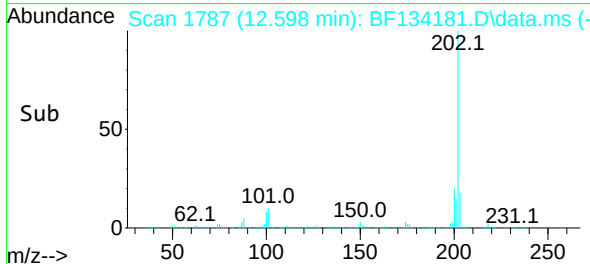
Instrument :
BNA_F
ClientSampleId :
OK-2-063023DL



Tgt Ion:202 Resp: 703489
Ion Ratio Lower Upper
202 100
101 10.1 0.0 31.0
203 17.7 0.0 37.6

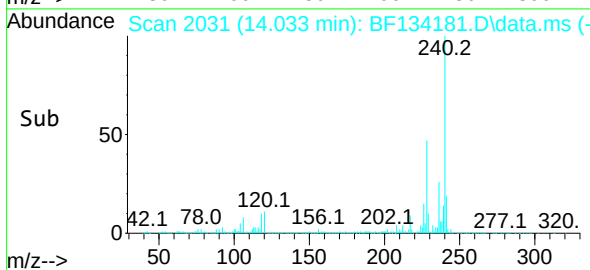
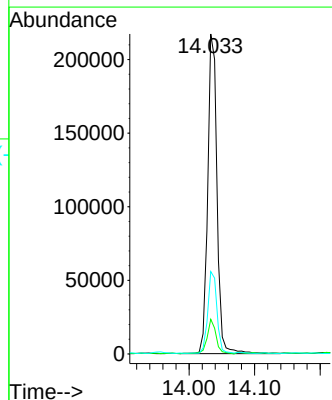
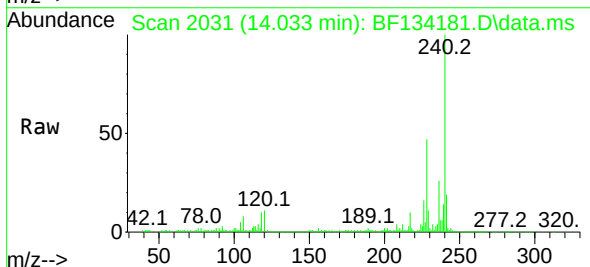
Manual Integrations
APPROVED

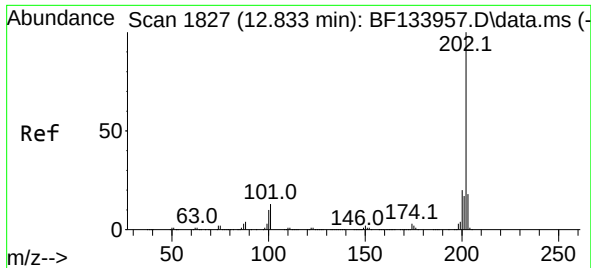
Reviewed By :Yogesh Patel 07/10/2023
Supervised By :mohammad ahmed 07/10/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2031
Delta R.T. -0.018 min
Lab File: BF134181.D
Acq: 09 Jul 2023 10:29

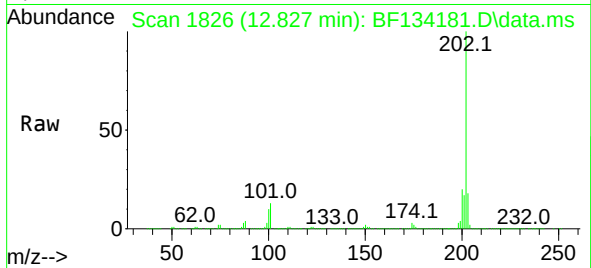
Tgt Ion:240 Resp: 214389
Ion Ratio Lower Upper
240 100
120 10.8 7.4 11.0
236 25.8 21.0 31.6





#78
Pyrene
Concen: 31.518 ng
RT: 12.827 min Scan# 1826
Delta R.T. -0.012 min
Lab File: BF134181.D
Acq: 09 Jul 2023 10:29

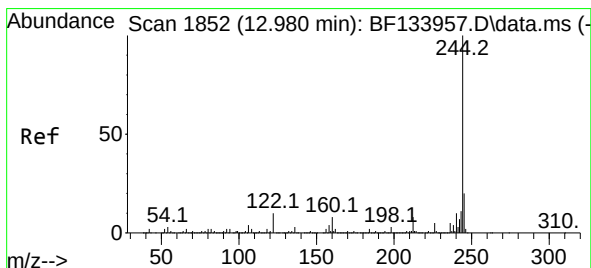
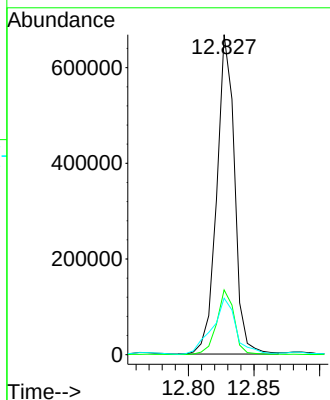
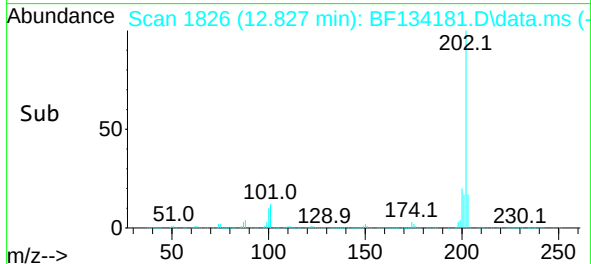
Instrument :
BNA_F
ClientSampleId :
OK-2-063023DL



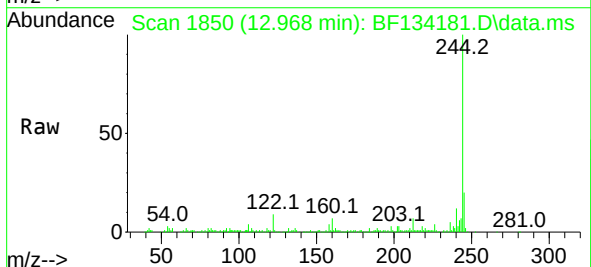
Tgt Ion:202 Resp: 628840
Ion Ratio Lower Upper
202 100
200 20.2 16.1 24.1
203 17.7 14.3 21.5

Manual Integrations
APPROVED

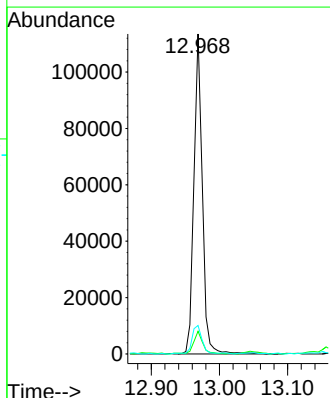
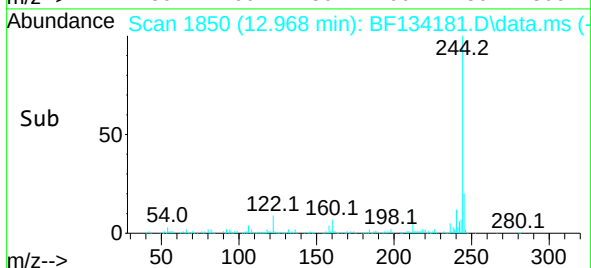
Reviewed By :Yogesh Patel 07/10/2023
Supervised By :mohammad ahmed 07/10/2023

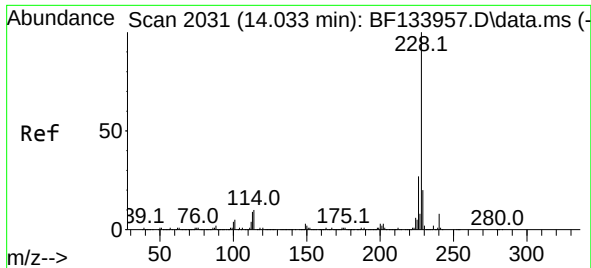


#79
Terphenyl-d14
Concen: 7.319 ng
RT: 12.968 min Scan# 1850
Delta R.T. -0.018 min
Lab File: BF134181.D
Acq: 09 Jul 2023 10:29



Tgt Ion:244 Resp: 97495
Ion Ratio Lower Upper
244 100
212 7.1 6.0 9.0
122 8.9 8.3 12.5





#81
Benzo(a)anthracene
Concen: 16.311 ng
RT: 14.027 min Scan# 2030
Delta R.T. -0.012 min
Lab File: BF134181.D
Acq: 09 Jul 2023 10:29

Instrument :

BNA_F

ClientSampleId :

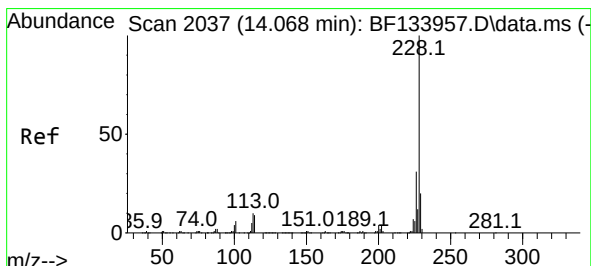
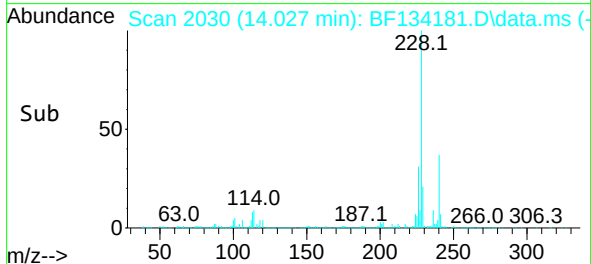
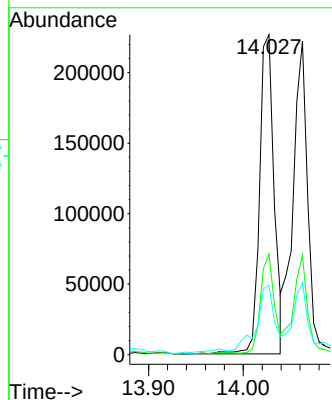
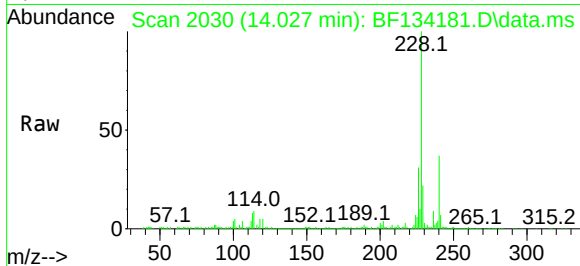
OK-2-063023DL

Tgt Ion:228 Resp: 242518
Ion Ratio Lower Upper
228 100
226 31.4 22.0 33.0
229 21.7 16.3 24.5

Manual Integrations

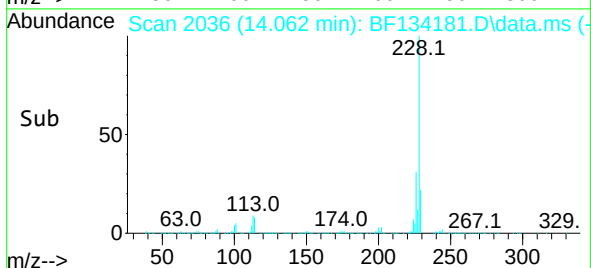
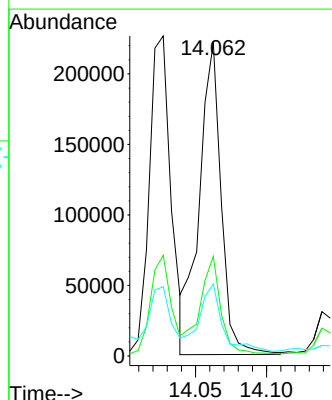
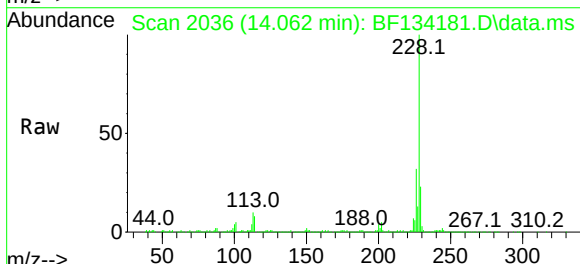
APPROVED

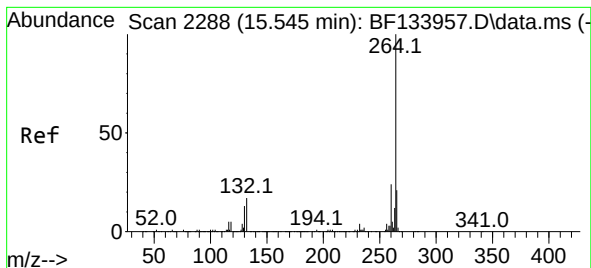
Reviewed By :Yogesh Patel 07/10/2023
Supervised By :mohammad ahmed 07/10/2023



#83
Chrysene
Concen: 16.555 ng
RT: 14.062 min Scan# 2036
Delta R.T. -0.012 min
Lab File: BF134181.D
Acq: 09 Jul 2023 10:29

Tgt Ion:228 Resp: 238401
Ion Ratio Lower Upper
228 100
226 31.8 24.4 36.6
229 22.9 16.1 24.1





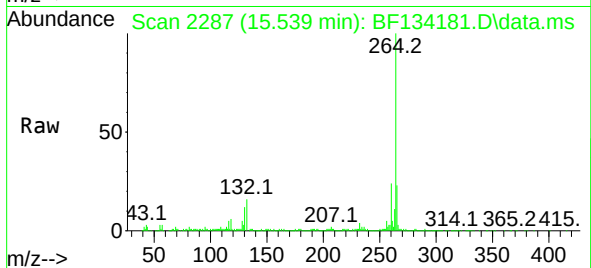
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF134181.D
Acq: 09 Jul 2023 10:29

Instrument :

BNA_F

ClientSampleId :

OK-2-063023DL



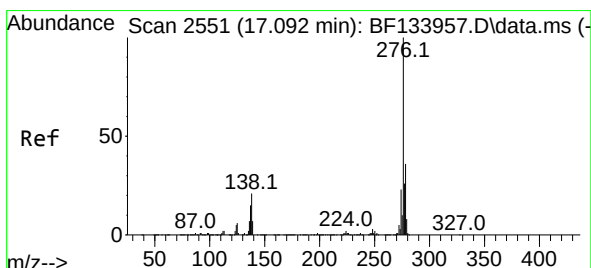
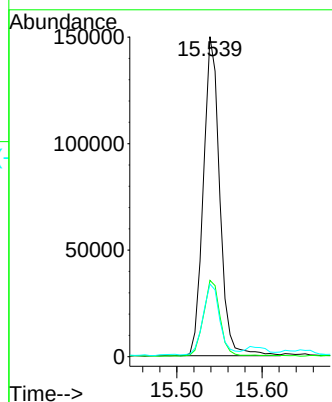
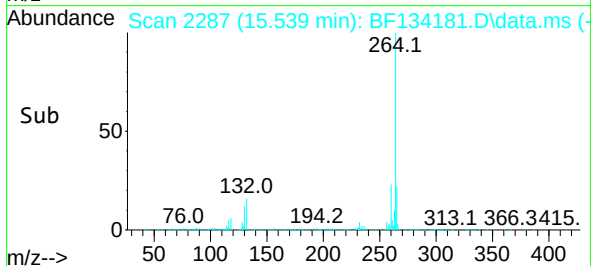
Tgt Ion:264 Resp: 20012
Ion Ratio Lower Upper
264 100
260 23.8 19.5 29.3
265 22.7 16.6 25.0

Manual Integrations

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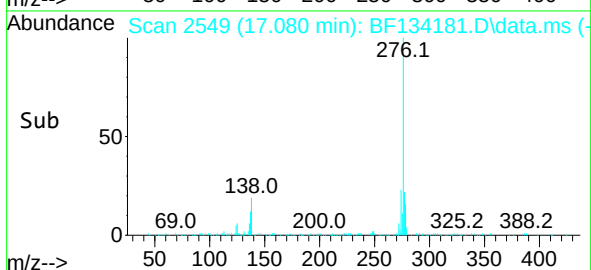
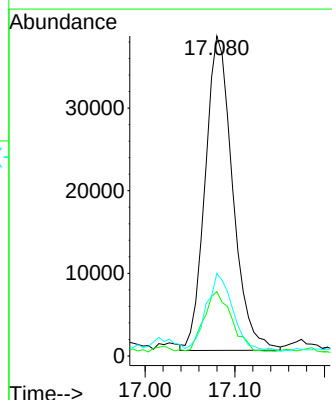
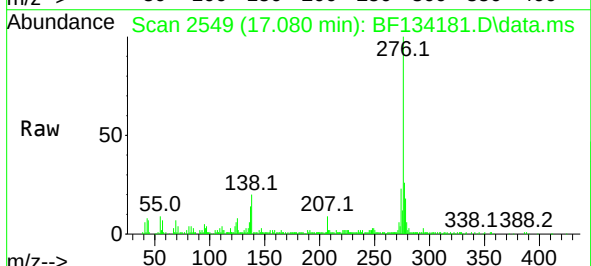
Reviewed By :Yogesh Patel 07/10/2023

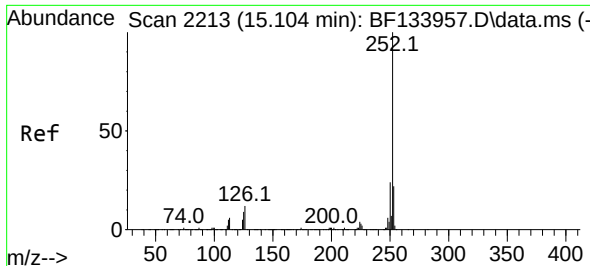
Supervised By :mohammad ahmed 07/10/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 5.827 ng
RT: 17.080 min Scan# 2549
Delta R.T. -0.030 min
Lab File: BF134181.D
Acq: 09 Jul 2023 10:29

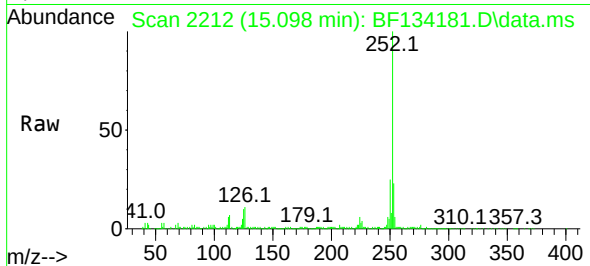
Tgt Ion:276 Resp: 80913
Ion Ratio Lower Upper
276 100
138 19.8 18.7 28.1
277 24.1 19.9 29.9





#88
Benzo(b)fluoranthene
Concen: 17.848 ng m
RT: 15.098 min Scan# 21001
Delta R.T. -0.012 min
Lab File: BF134181.D
Acq: 09 Jul 2023 10:29

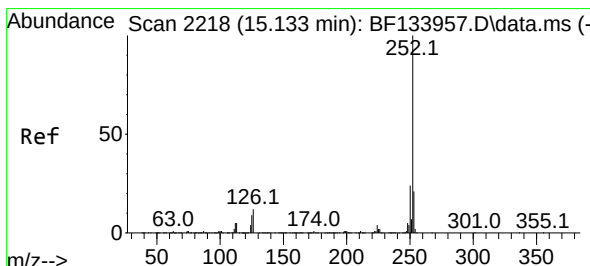
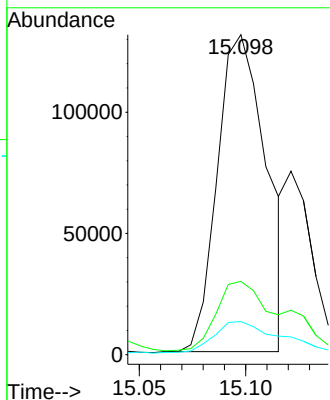
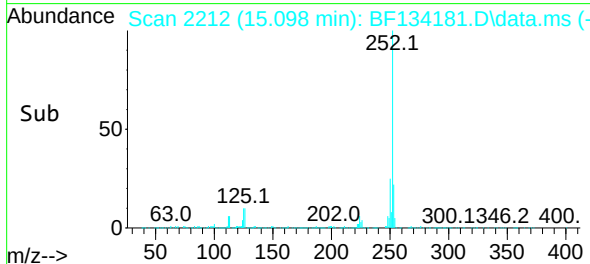
Instrument :
BNA_F
ClientSampleId :
OK-2-063023DL



Tgt Ion:252 Resp: 21001
Ion Ratio Lower Upper
252 100
253 22.9 17.4 26.0
125 10.3 7.1 10.7

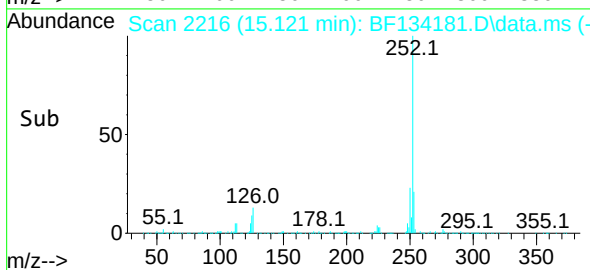
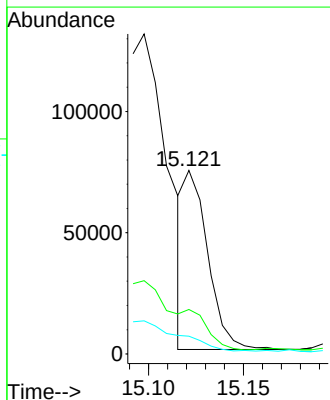
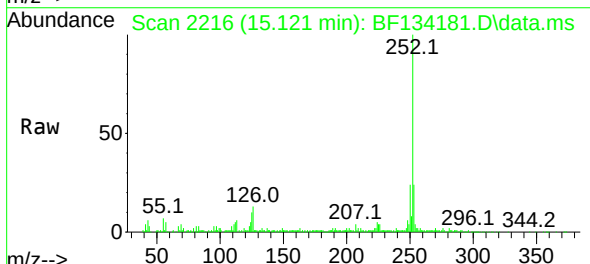
Manual Integrations
APPROVED

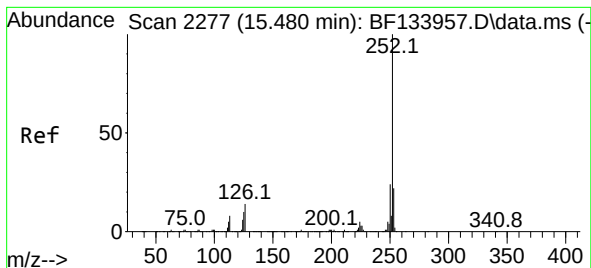
Reviewed By :Yogesh Patel 07/10/2023
Supervised By :mohammad ahmed 07/10/2023



#89
Benzo(k)fluoranthene
Concen: 5.386 ng m
RT: 15.121 min Scan# 2216
Delta R.T. -0.018 min
Lab File: BF134181.D
Acq: 09 Jul 2023 10:29

Tgt Ion:252 Resp: 64533
Ion Ratio Lower Upper
252 100
253 24.3 16.9 25.3
125 9.7 7.4 11.2





#90

Benzo(a)pyrene

Concen: 13.997 ng

RT: 15.474 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF134181.D

Acq: 09 Jul 2023 10:29

Instrument :

BNA_F

ClientSampleId :

OK-2-063023DL

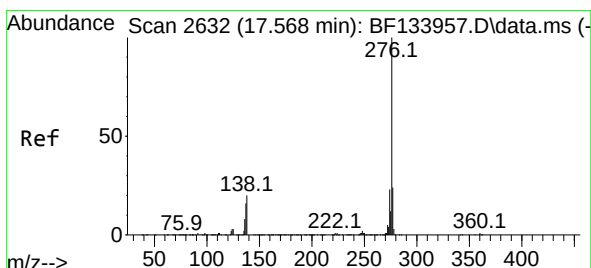
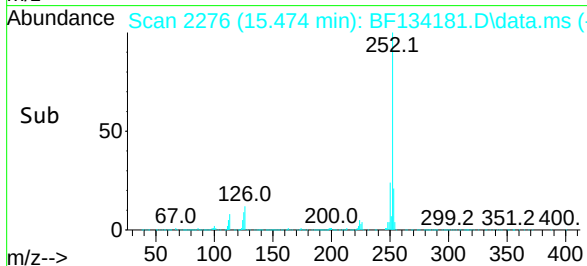
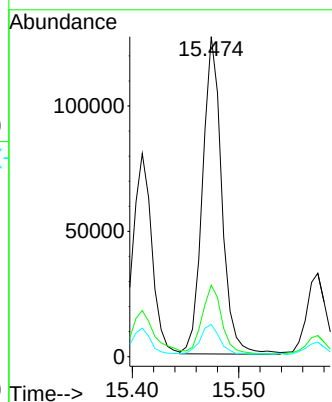
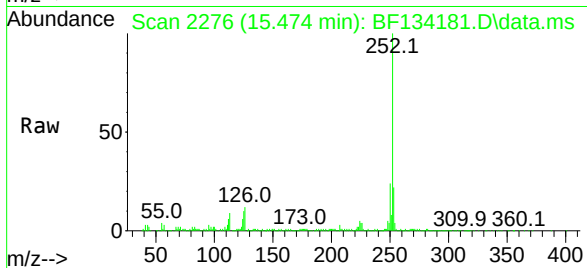
Tgt Ion:252 Resp: 159275
 Ion Ratio Lower Upper
 252 100
 253 22.3 17.4 26.0
 125 10.1 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/10/2023

Supervised By :mohammad ahmed 07/10/2023



#92

Benzo(g,h,i)perylene

Concen: 6.865 ng

RT: 17.550 min Scan# 2629

Delta R.T. -0.030 min

Lab File: BF134181.D

Acq: 09 Jul 2023 10:29

Tgt Ion:276 Resp: 80295
 Ion Ratio Lower Upper
 276 100
 277 23.8 19.0 28.6
 138 19.2 16.2 24.2

