

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070623\
 Data File : BF134141.D
 Acq On : 07 Jul 2023 16:59
 Operator : CG\JU
 Sample : 03497-01 2X
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OK-2-063023

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/09/2023
 Supervised By :mohammad ahmed 07/09/2023

Quant Time: Jul 07 23:06:01 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	6.846	152	103008	20.000	ng	0.00
21) Naphthalene-d8	8.122	136	356003	20.000	ng	-0.01
39) Acenaphthene-d10	9.881	164	141498	20.000	ng	-0.01
64) Phenanthrene-d10	11.381	188	250536	20.000	ng	0.00
76) Chrysene-d12	14.045	240	158893	20.000	ng	0.00
86) Perylene-d12	15.551	264	138934	20.000	ng	# 0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.475	112	275154	44.683	ng	-0.01
7) Phenol-d6	6.475	99	330080	43.586	ng	-0.02
23) Nitrobenzene-d5	7.404	82	208697	31.601	ng	-0.02
42) 2,4,6-Tribromophenol	10.675	330	68089	38.379	ng	-0.01
45) 2-Fluorobiphenyl	9.198	172	348666	35.825	ng	-0.01
79) Terphenyl-d14	12.975	244	355066	35.964	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.145	128	112191	6.524	ng	100
37) 2-Methylnaphthalene	8.839	142	96273	7.917	ng	97
38) 1-Methylnaphthalene	8.939	142	99827	8.831	ng	99
49) Acenaphthylene	9.745	152	135859	9.577	ng	98
52) Acenaphthene	9.916	154	193310	23.483	ng	100
55) Dibenzofuran	10.086	168	174181	13.539	ng	# 97
58) Fluorene	10.434	166	360217	35.990	ng	98
71) Phenanthrene	11.410	178	2002010	158.733	ng	100
72) Anthracene	11.457	178	534650	40.756	ng	99
73) Carbazole	11.610	167	247621	20.623	ng	100
75) Fluoranthene	12.610	202	2378088	174.408	ng	98
78) Pyrene	12.845	202	2158943	146.001	ng	99
81) Benzo(a)anthracene	14.033	228	768296	69.721	ng	94
83) Chrysene	14.074	228	727054	68.120	ng	98
87) Indeno(1,2,3-cd)pyrene	17.098	276	205960	21.364	ng	96
88) Benzo(b)fluoranthene	15.110	252	510219m	62.455	ng	
89) Benzo(k)fluoranthene	15.133	252	214284m	25.762	ng	
90) Benzo(a)pyrene	15.486	252	469681	59.455	ng	96
91) Dibenzo(a,h)anthracene	17.110	278	50678	6.436	ng	# 77
92) Benzo(g,h,i)perylene	17.574	276	216598	26.673	ng	97

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

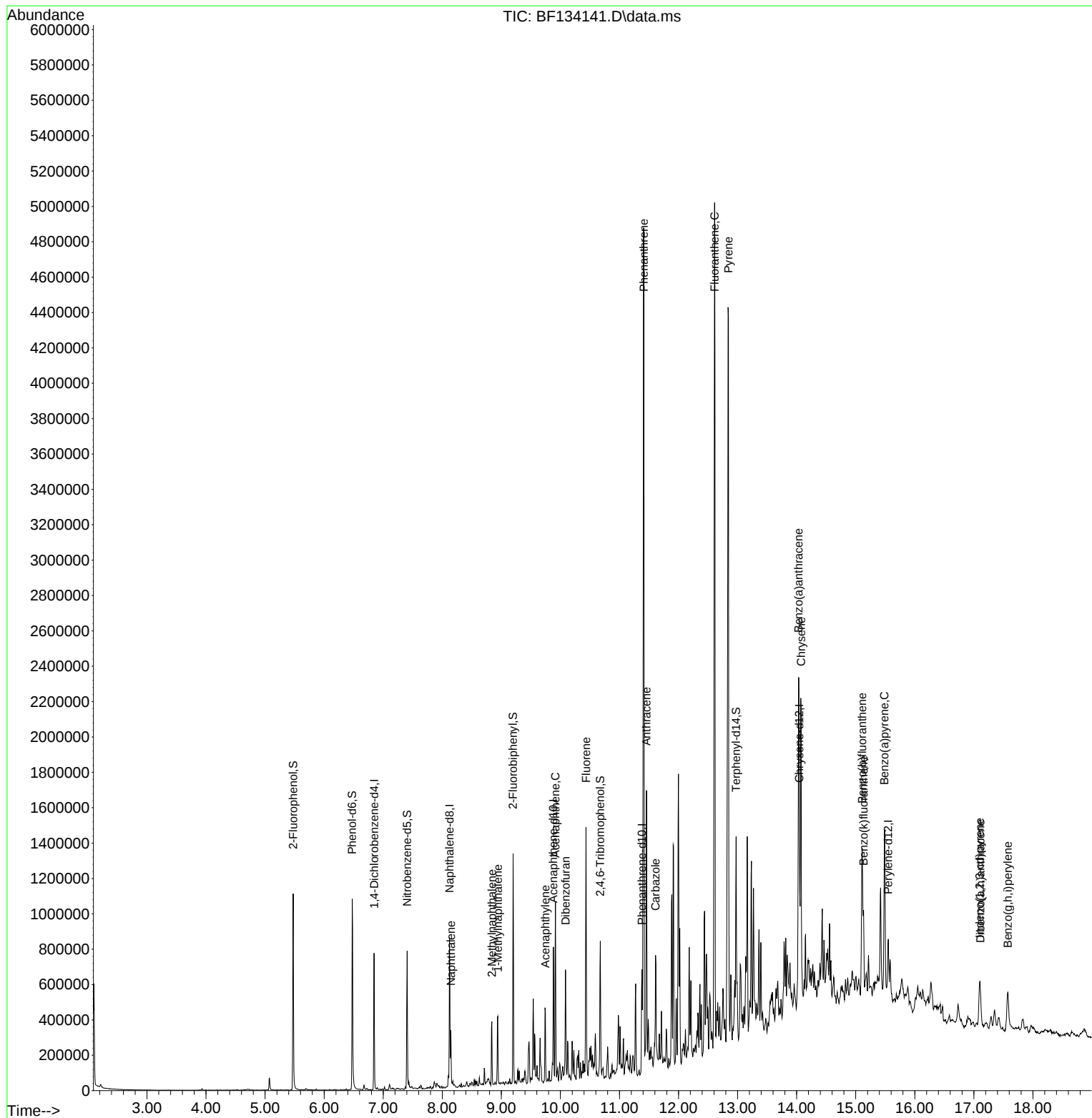
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070623\
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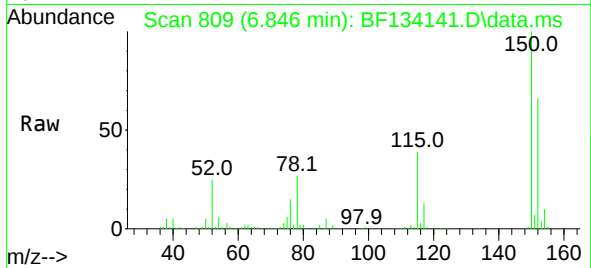
Quant Time: Jul 07 23:06:01 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 30 18:35:29 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.846 min Scan# 809
Delta R.T. -0.005 min
Lab File: BF134141.D
Acq: 07 Jul 2023 16:59

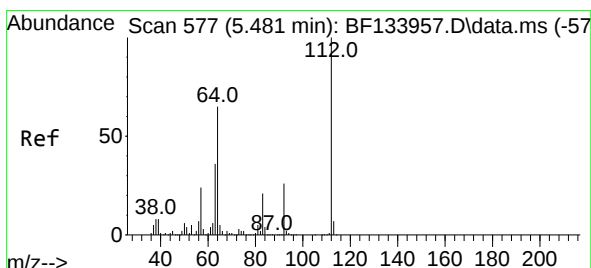
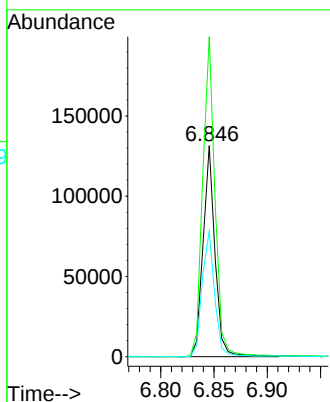
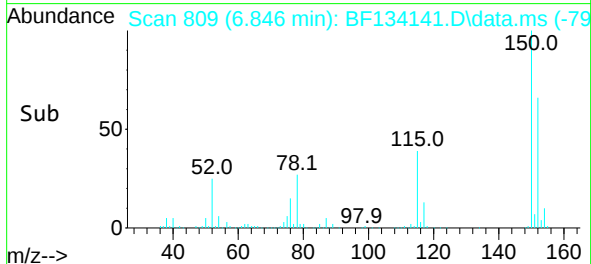
Instrument :
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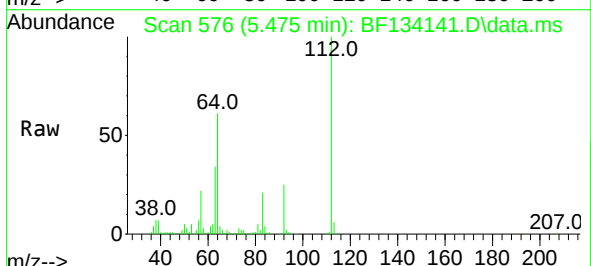
Tgt Ion:152 Resp: 103000
Ion Ratio Lower Upper
152 100
150 151.6 124.5 186.7
115 59.4 50.2 75.2

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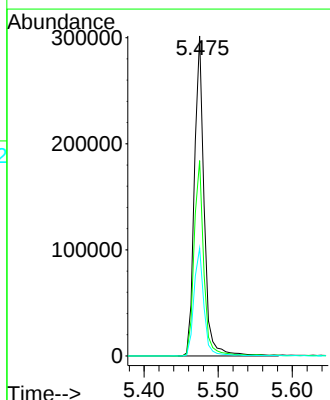
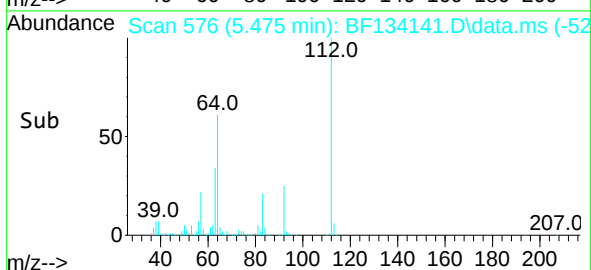
Reviewed By :Yogesh Patel 07/09/2023
Supervised By :mohammad ahmed 07/09/2023

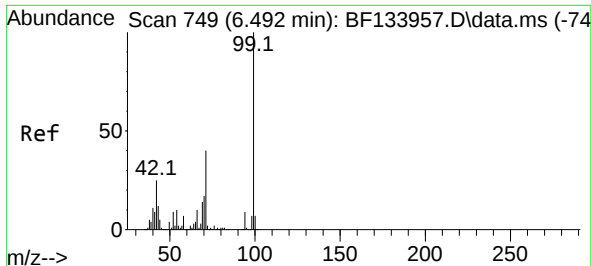


#5
2-Fluorophenol
Concen: 44.683 ng
RT: 5.475 min Scan# 576
Delta R.T. -0.012 min
Lab File: BF134141.D
Acq: 07 Jul 2023 16:59



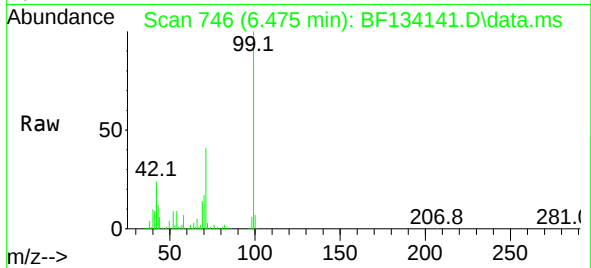
Tgt Ion:112 Resp: 275154
Ion Ratio Lower Upper
112 100
64 61.0 52.1 78.1
63 33.7 28.6 42.8





#7
Phenol-d6
Concen: 43.586 ng
RT: 6.475 min Scan# 749
Delta R.T. -0.018 min
Lab File: BF134141.D
Acq: 07 Jul 2023 16:59

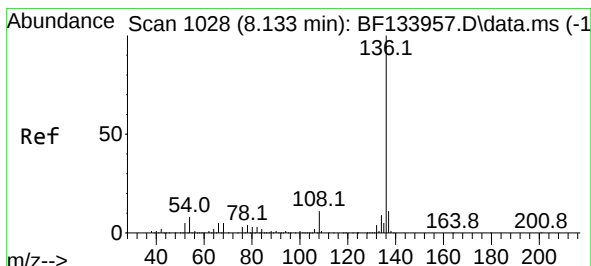
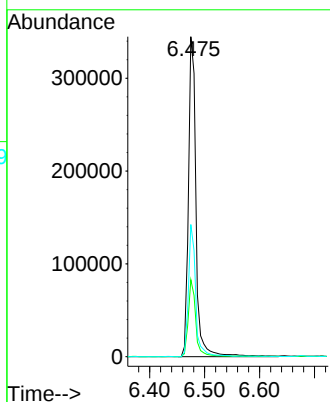
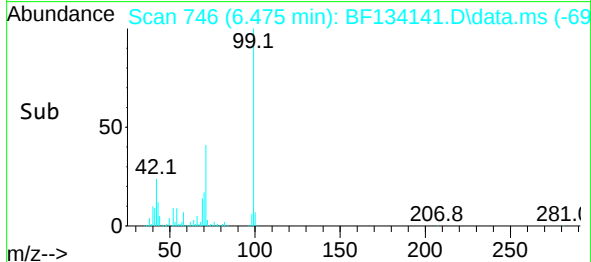
Instrument :
BNA_F
ClientSampleId :
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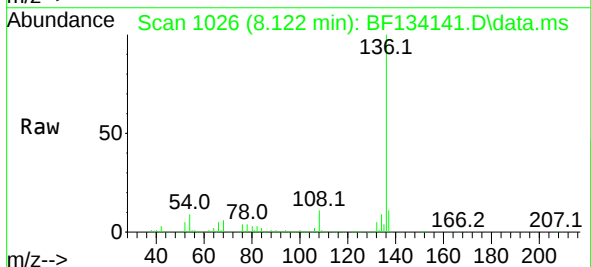
Tgt Ion: 99 Resp: 330080
Ion Ratio Lower Upper
99 100
42 24.1 19.8 29.6
71 41.3 31.9 47.9

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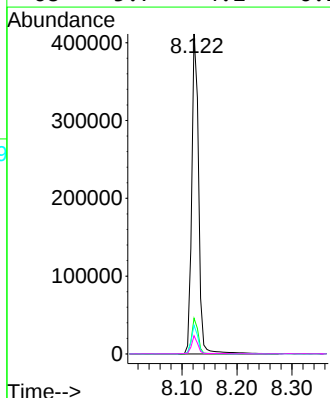
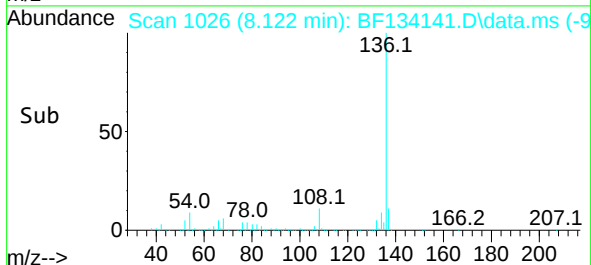
Reviewed By :Yogesh Patel 07/09/2023
Supervised By :mohammad ahmed 07/09/2023

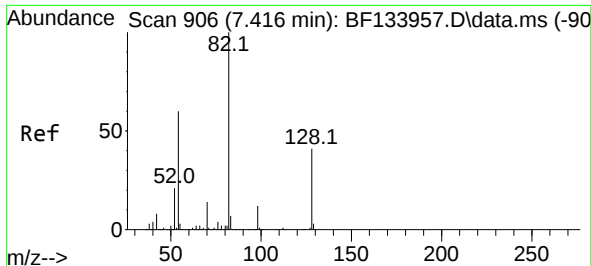


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.012 min
Lab File: BF134141.D
Acq: 07 Jul 2023 16:59



Tgt Ion:136 Resp: 356003
Ion Ratio Lower Upper
136 100
137 11.2 8.6 12.8
54 9.0 6.5 9.7
68 5.7 4.2 6.2





#23

Nitrobenzene-d5

Concen: 31.601 ng

RT: 7.404 min Scan# 906

Delta R.T. -0.018 min

Lab File: BF134141.D

Acq: 07 Jul 2023 16:59

Instrument :

BNA_F

ClientSampleId :

OK-2-063023

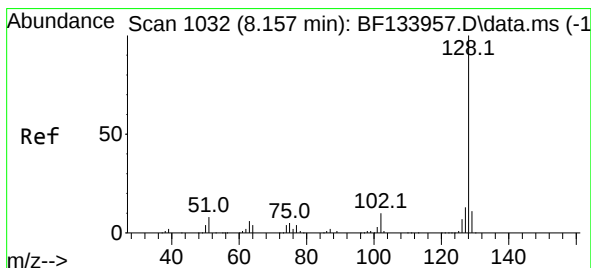
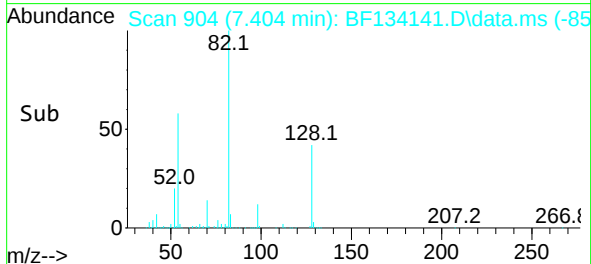
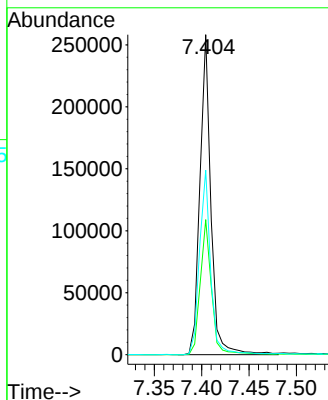
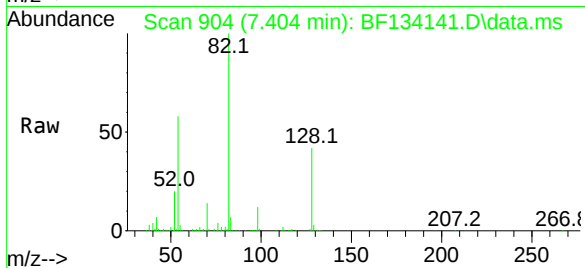
Tgt Ion: 82 Resp: 20869
 Ion Ratio Lower Upper
 82 100
 128 42.2 32.5 48.7
 54 57.6 48.2 72.2

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Supervised By :mohammad ahmed 07/09/2023



#31

Naphthalene

Concen: 6.524 ng

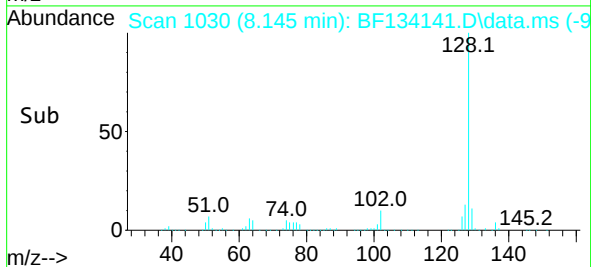
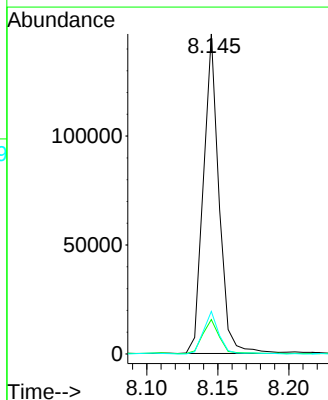
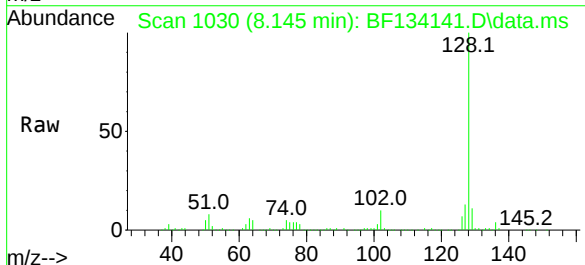
RT: 8.145 min Scan# 1030

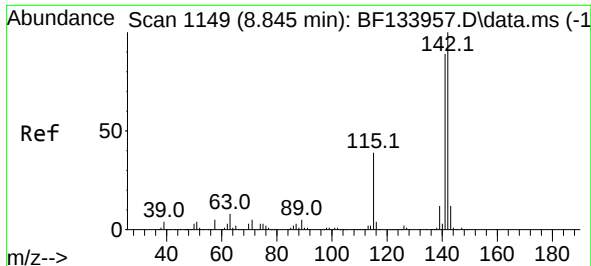
Delta R.T. -0.012 min

Lab File: BF134141.D

Acq: 07 Jul 2023 16:59

Tgt Ion:128 Resp: 112191
 Ion Ratio Lower Upper
 128 100
 129 10.8 8.7 13.1
 127 13.3 10.6 15.8





#37

2-Methylnaphthalene

Concen: 7.917 ng

RT: 8.839 min Scan# 1148

Delta R.T. -0.006 min

Lab File: BF134141.D

Acq: 07 Jul 2023 16:59

Instrument :

BNA_F

ClientSampleId :

OK-2-063023

Tgt Ion:142 Resp: 9627

Ion Ratio Lower Upper

142 100

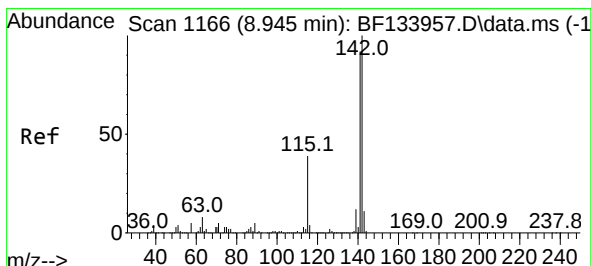
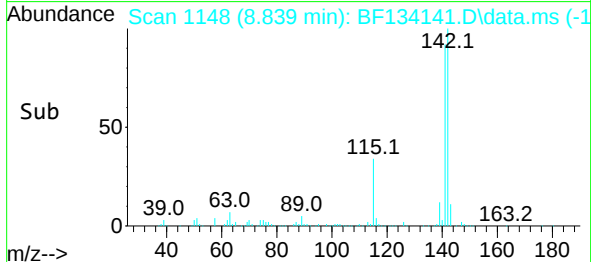
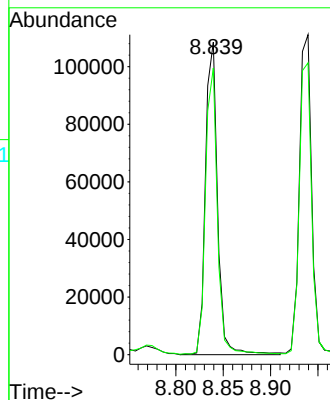
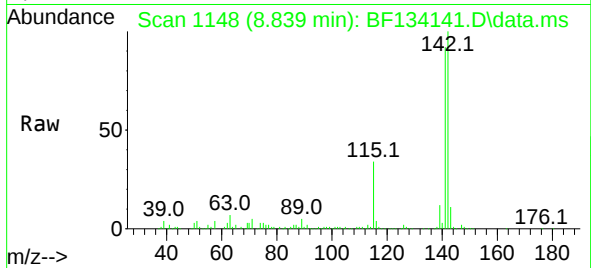
141 91.7 71.0 106.4

Manual Integrations

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Reviewed By :Yogesh Patel 07/09/2023

Supervised By :mohammad ahmed 07/09/2023



#38

1-Methylnaphthalene

Concen: 8.831 ng

RT: 8.939 min Scan# 1165

Delta R.T. -0.006 min

Lab File: BF134141.D

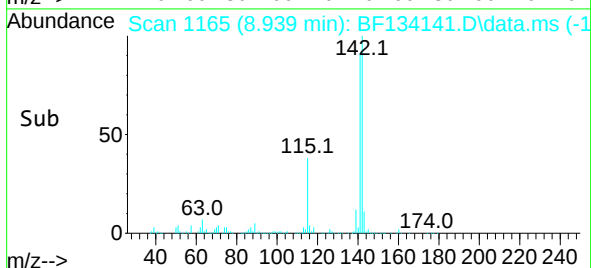
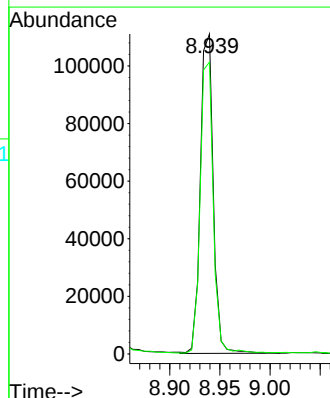
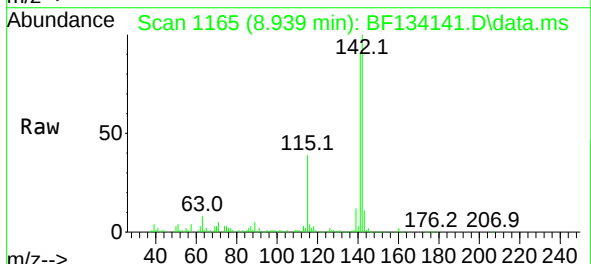
Acq: 07 Jul 2023 16:59

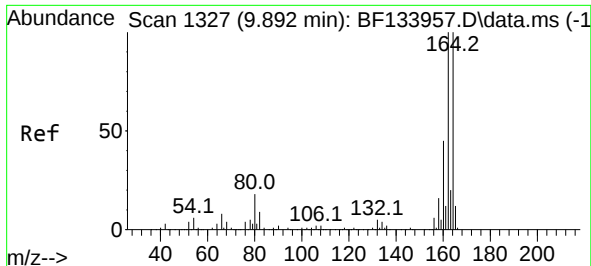
Tgt Ion:142 Resp: 99827

Ion Ratio Lower Upper

142 100

141 91.2 73.5 110.3





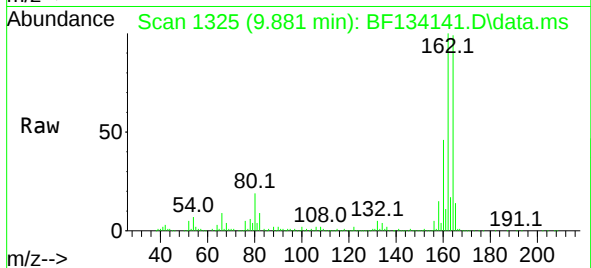
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.881 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134141.D
Acq: 07 Jul 2023 16:59

Instrument :

BNA_F

ClientSampleId :

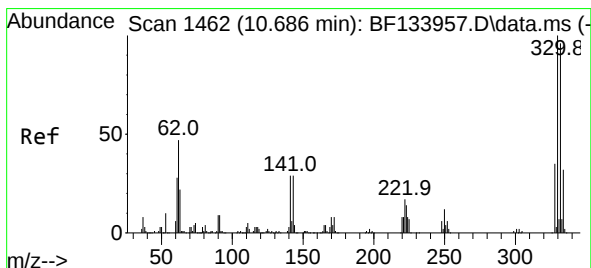
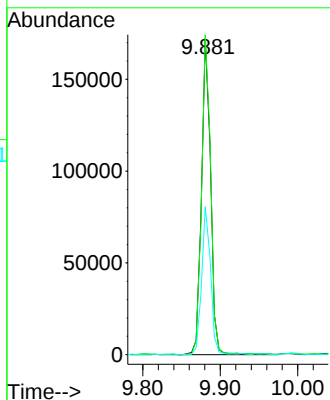
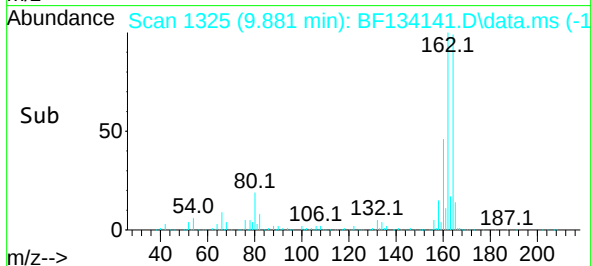
OK-2-063023



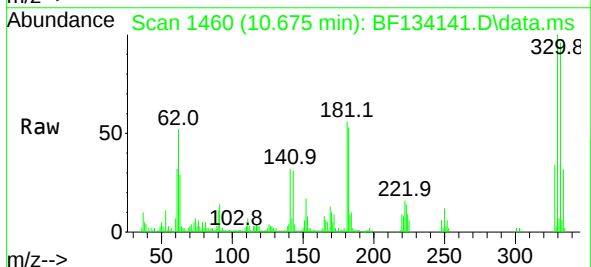
Tgt Ion:164 Resp: 141498
Ion Ratio Lower Upper
164 100
162 101.3 80.0 120.0
160 46.8 35.9 53.9

Manual Integrations
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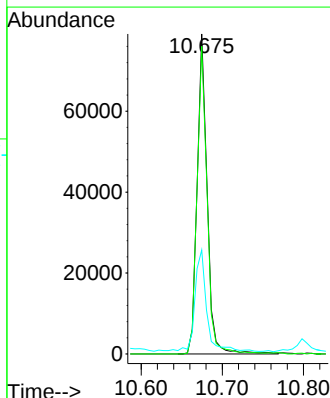
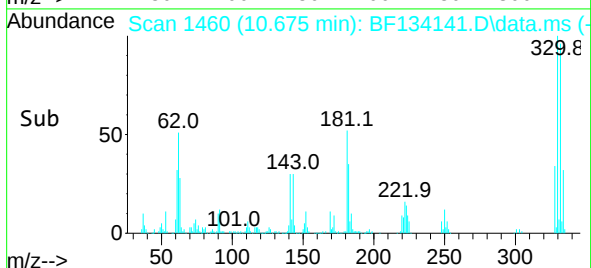
Reviewed By :Yogesh Patel 07/09/2023
Supervised By :mohammad ahmed 07/09/2023

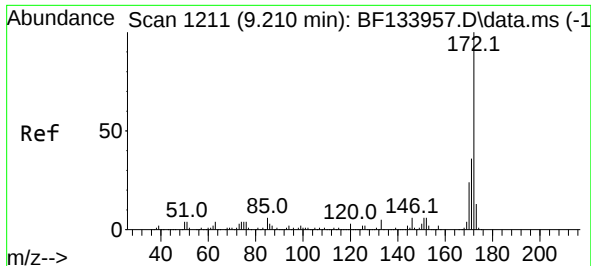


#42
2,4,6-Tribromophenol
Concen: 38.379 ng
RT: 10.675 min Scan# 1460
Delta R.T. -0.012 min
Lab File: BF134141.D
Acq: 07 Jul 2023 16:59



Tgt Ion:330 Resp: 68089
Ion Ratio Lower Upper
330 100
332 96.8 77.0 115.6
141 37.0 26.3 39.5





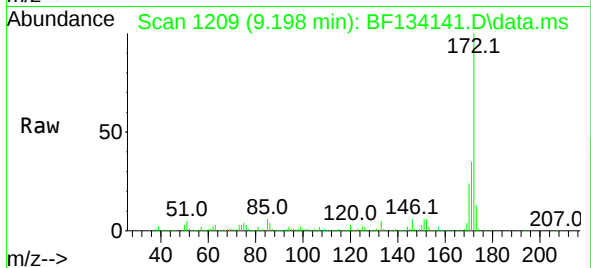
#45
2-Fluorobiphenyl
Concen: 35.825 ng
RT: 9.198 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134141.D
Acq: 07 Jul 2023 16:59

Instrument :

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ClientSampleId :

OK-2-063023

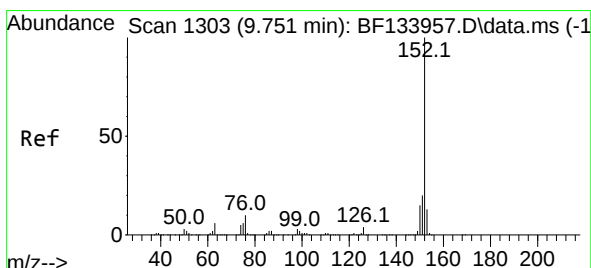
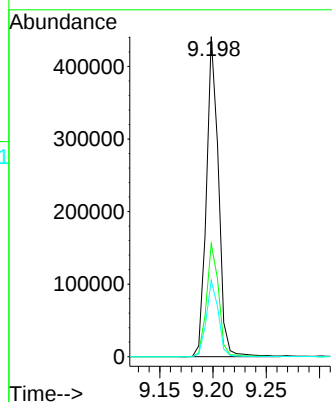
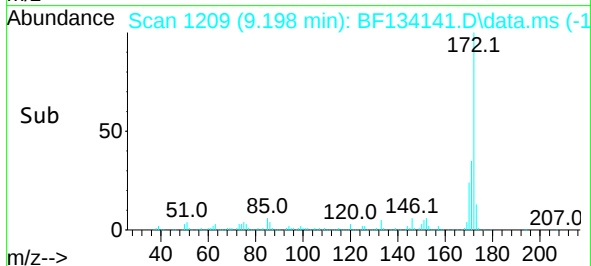


Tgt Ion:172 Resp: 348660
Ion Ratio Lower Upper
172 100
171 35.3 28.6 43.0
170 23.8 19.4 29.0

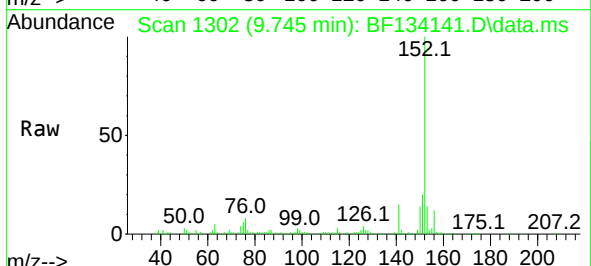
Manual Integrations

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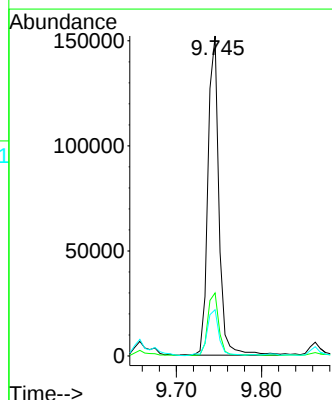
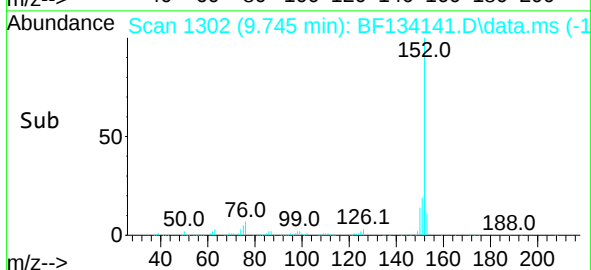
Reviewed By :Yogesh Patel 07/09/2023
Supervised By :mohammad ahmed 07/09/2023

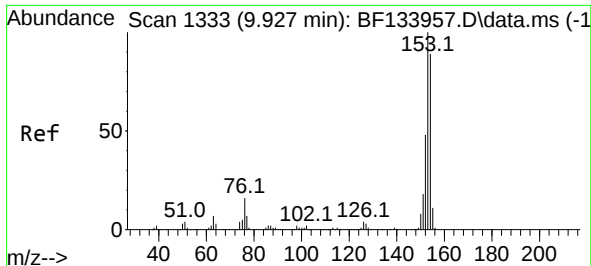


#49
Acenaphthylene
Concen: 9.577 ng
RT: 9.745 min Scan# 1302
Delta R.T. -0.012 min
Lab File: BF134141.D
Acq: 07 Jul 2023 16:59



Tgt Ion:152 Resp: 135859
Ion Ratio Lower Upper
152 100
151 19.7 16.2 24.2
153 14.5 10.8 16.2





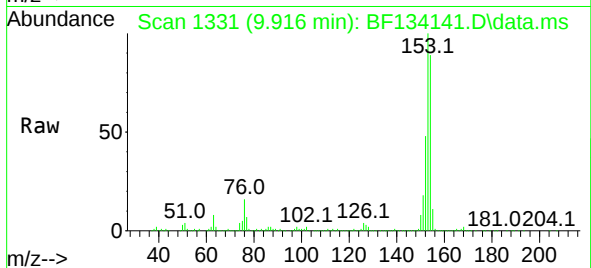
#52
Acenaphthene
Concen: 23.483 ng
RT: 9.916 min Scan# 1331
Delta R.T. -0.012 min
Lab File: BF134141.D
Acq: 07 Jul 2023 16:59

Instrument :

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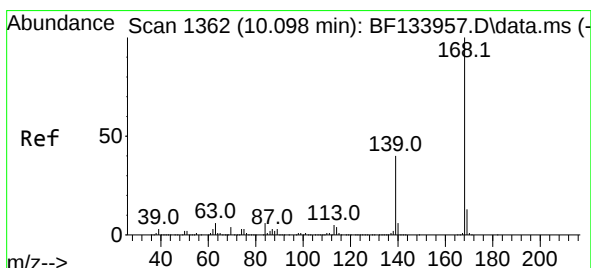
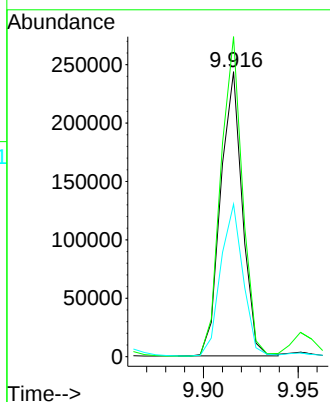
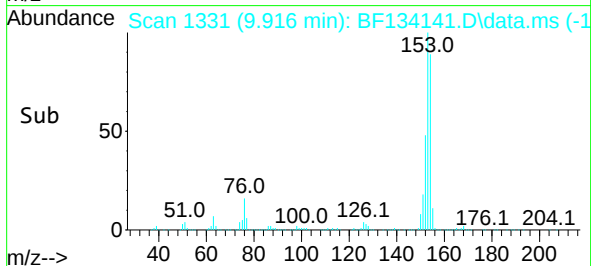
OK-2-063023



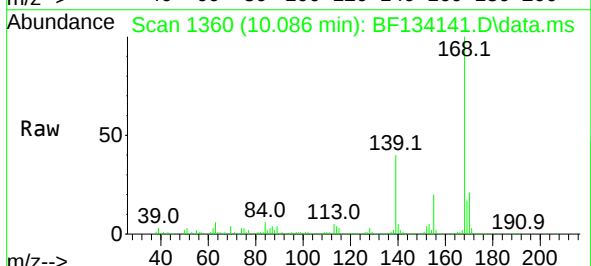
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Ion Ratio Lower Upper
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153 112.3 89.4 134.2
152 53.5 42.8 64.2

Manual Integrations
APPROVED

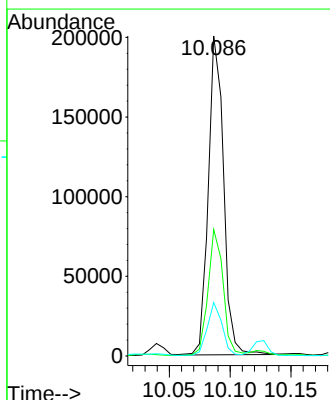
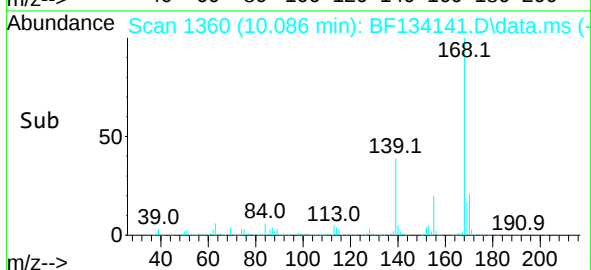
Reviewed By :Yogesh Patel 07/09/2023
Supervised By :mohammad ahmed 07/09/2023

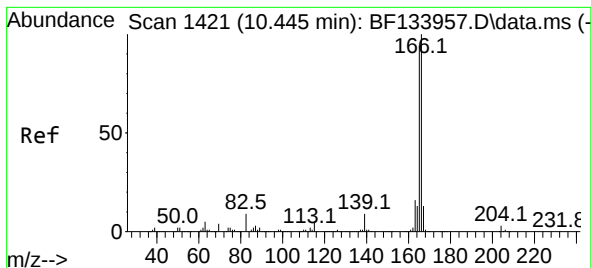


#55
Dibenzofuran
Concen: 13.539 ng
RT: 10.086 min Scan# 1360
Delta R.T. -0.012 min
Lab File: BF134141.D
Acq: 07 Jul 2023 16:59



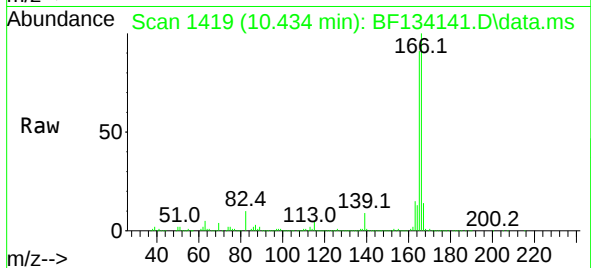
Tgt Ion:168 Resp: 174181
Ion Ratio Lower Upper
168 100
139 39.5 32.0 48.0
169 16.7 10.6 16.0#





#58
Fluorene
Concen: 35.990 ng
RT: 10.434 min Scan# 1421
Delta R.T. -0.012 min
Lab File: BF134141.D
Acq: 07 Jul 2023 16:59

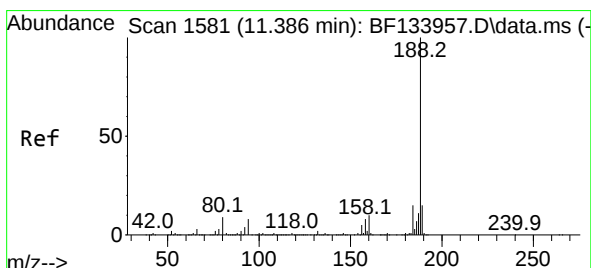
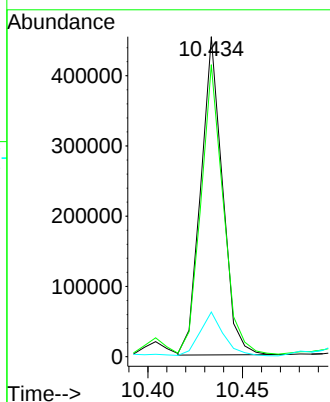
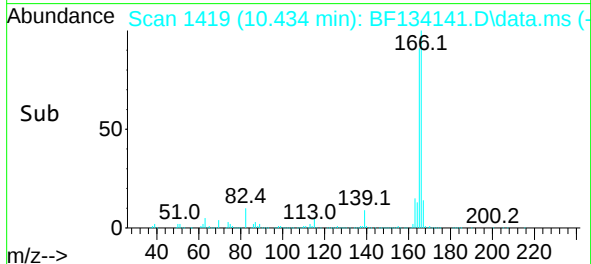
Instrument :
BNA_F
ClientSampleId :
OK-2-063023



Tgt Ion:166 Resp: 36021
Ion Ratio Lower Upper
166 100
165 91.2 75.0 112.4
167 13.9 10.6 15.8

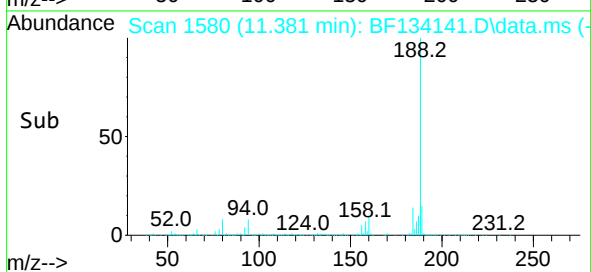
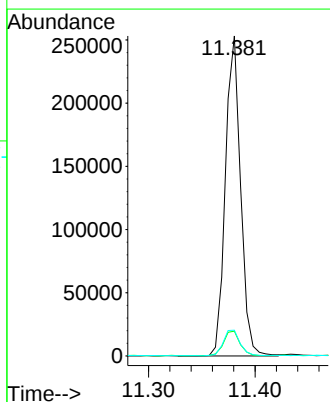
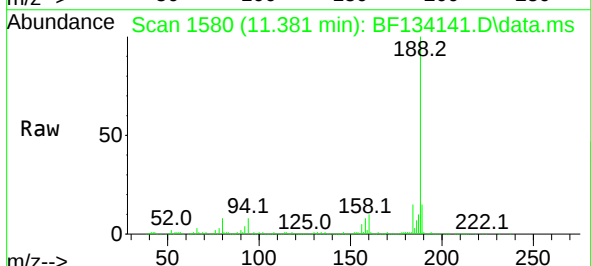
Manual Integrations
APPROVED

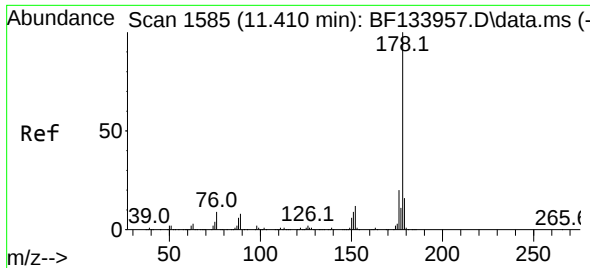
Reviewed By :Yogesh Patel 07/09/2023
Supervised By :mohammad ahmed 07/09/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.381 min Scan# 1580
Delta R.T. -0.006 min
Lab File: BF134141.D
Acq: 07 Jul 2023 16:59

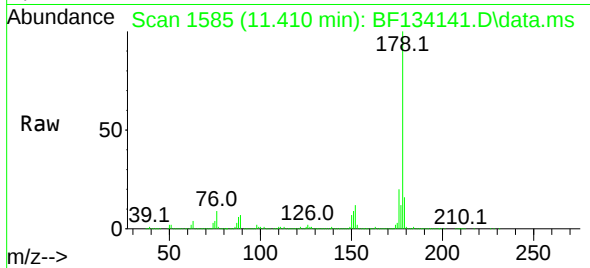
Tgt Ion:188 Resp: 250536
Ion Ratio Lower Upper
188 100
94 7.8 6.4 9.6
80 8.1 7.3 10.9





#71
Phenanthrene
Concen: 158.733 ng
RT: 11.410 min Scan# 1585
Delta R.T. 0.000 min
Lab File: BF134141.D
Acq: 07 Jul 2023 16:59

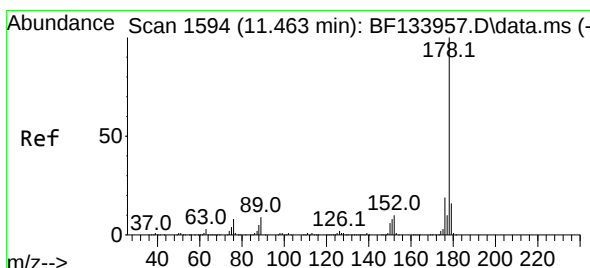
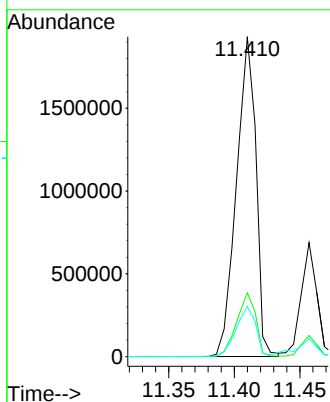
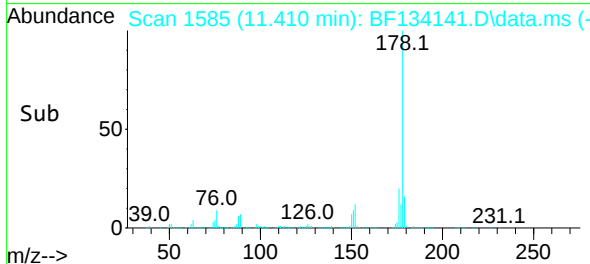
Instrument :
BNA_F
ClientSampleId :
OK-2-063023



Tgt Ion:178 Resp: 2002010
Ion Ratio Lower Upper
178 100
176 19.9 16.0 24.0
179 15.7 12.4 18.6

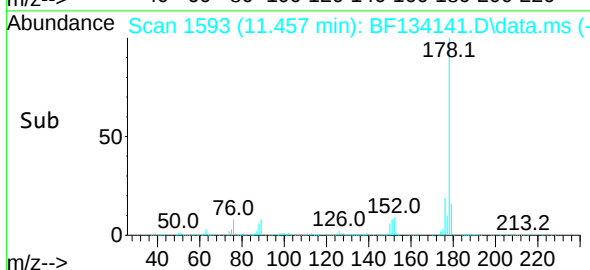
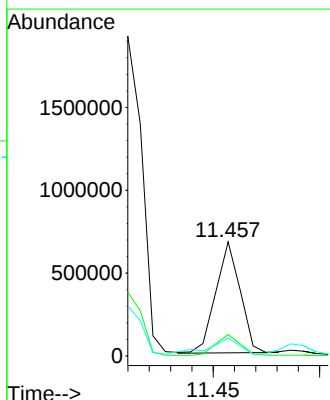
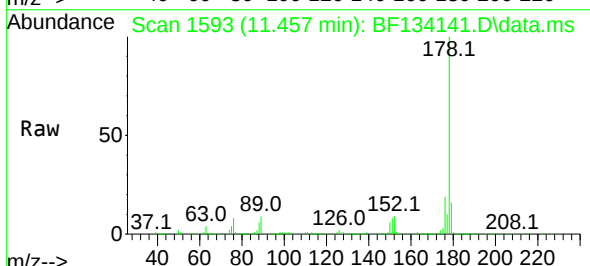
Manual Integrations
APPROVED

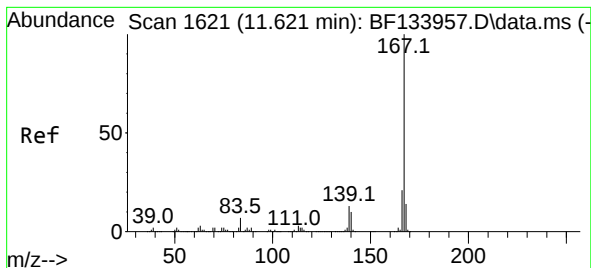
Reviewed By :Yogesh Patel 07/09/2023
Supervised By :mohammad ahmed 07/09/2023



#72
Anthracene
Concen: 40.756 ng
RT: 11.457 min Scan# 1593
Delta R.T. -0.006 min
Lab File: BF134141.D
Acq: 07 Jul 2023 16:59

Tgt Ion:178 Resp: 534650
Ion Ratio Lower Upper
178 100
176 18.7 15.3 22.9
179 15.9 12.4 18.6





#73

Carbazole

Concen: 20.623 ng

RT: 11.610 min Scan# 1619

Delta R.T. -0.012 min

Lab File: BF134141.D

Acq: 07 Jul 2023 16:59

Instrument :

BNA_F

ClientSampleId :

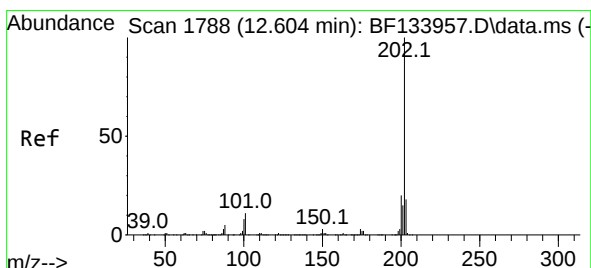
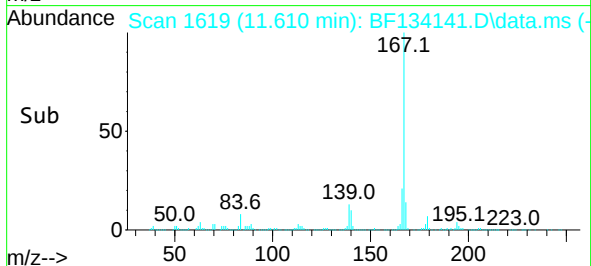
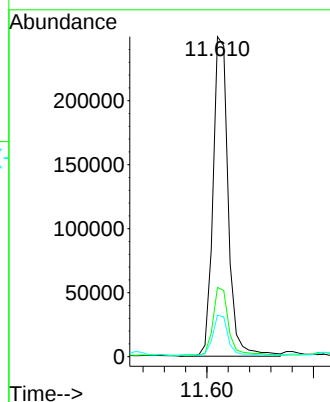
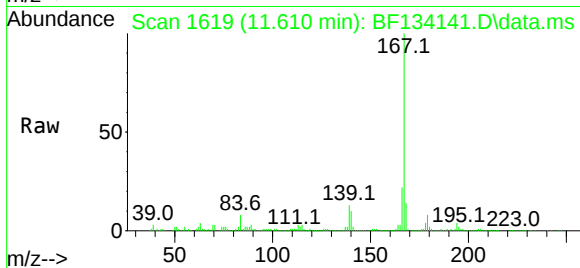
OK-2-063023

Tgt Ion:167	Resp: 24762
Ion Ratio	Lower Upper
167 100	
166 21.6	17.0 25.6
139 13.0	10.4 15.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/09/2023
Supervised By :mohammad ahmed 07/09/2023



#75

Fluoranthene

Concen: 174.408 ng

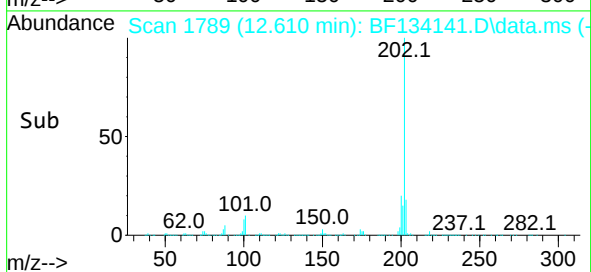
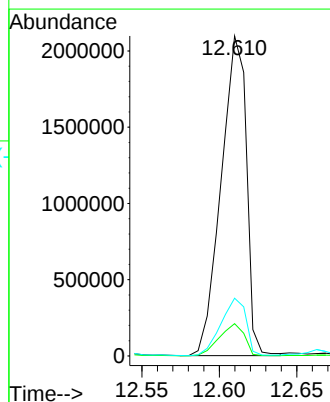
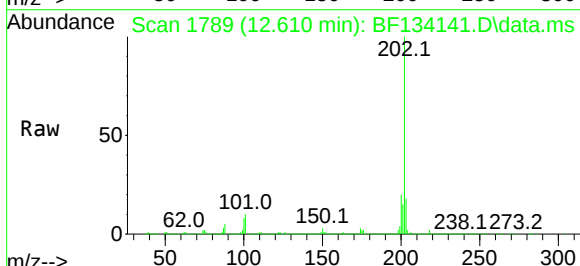
RT: 12.610 min Scan# 1789

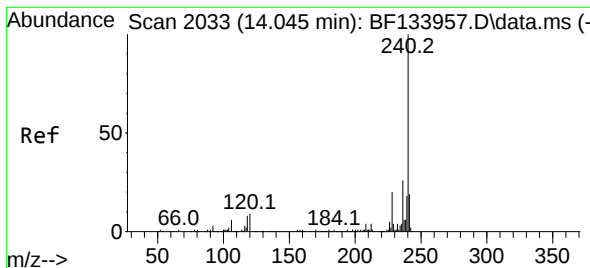
Delta R.T. 0.000 min

Lab File: BF134141.D

Acq: 07 Jul 2023 16:59

Tgt Ion:202	Resp: 2378088
Ion Ratio	Lower Upper
202 100	
101 10.1	0.0 31.0
203 18.0	0.0 37.6





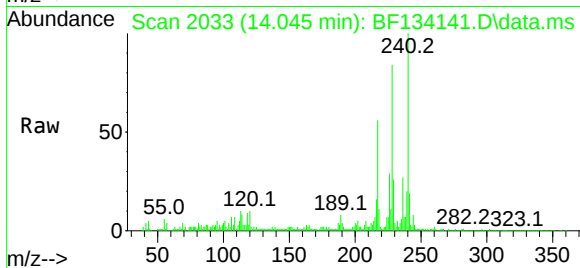
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2033
Delta R.T. -0.006 min
Lab File: BF134141.D
Acq: 07 Jul 2023 16:59

Instrument :

BNA_F

ClientSampleId :

OK-2-063023



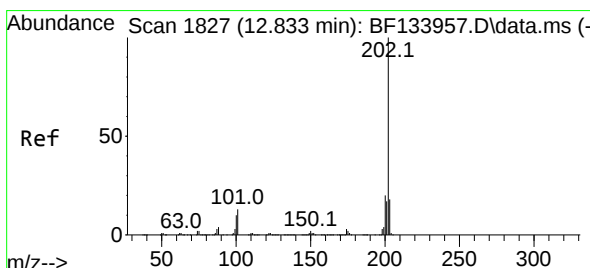
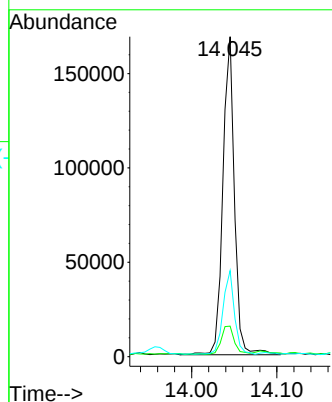
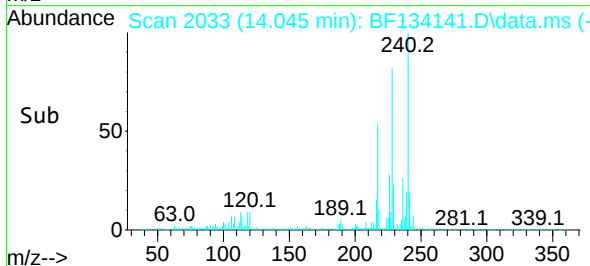
Tgt Ion:240 Resp: 158893
Ion Ratio Lower Upper
240 100
120 9.5 7.4 11.0
236 26.9 21.0 31.6

Manual Integrations

APPROVED

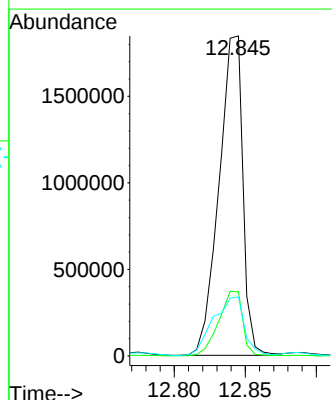
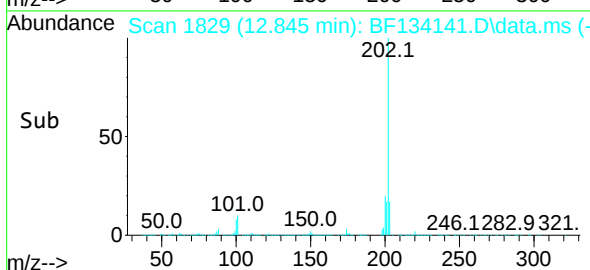
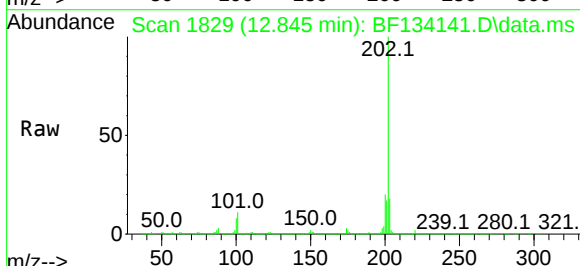
Reviewed By :Yogesh Patel 07/09/2023

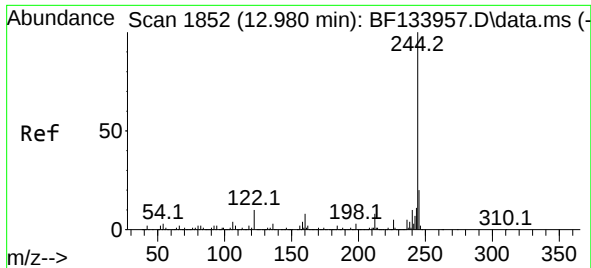
Supervised By :mohammad ahmed 07/09/2023



#78
Pyrene
Concen: 146.001 ng
RT: 12.845 min Scan# 1829
Delta R.T. 0.006 min
Lab File: BF134141.D
Acq: 07 Jul 2023 16:59

Tgt Ion:202 Resp: 2158943
Ion Ratio Lower Upper
202 100
200 20.0 16.1 24.1
203 18.5 14.3 21.5





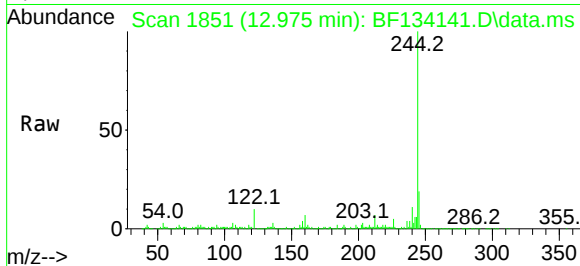
#79
 Terphenyl-d14
 Concen: 35.964 ng
 RT: 12.975 min Scan# 1851
 Delta R.T. -0.012 min
 Lab File: BF134141.D
 Acq: 07 Jul 2023 16:59

Instrument :

BNA_F

ClientSampleId :

OK-2-063023



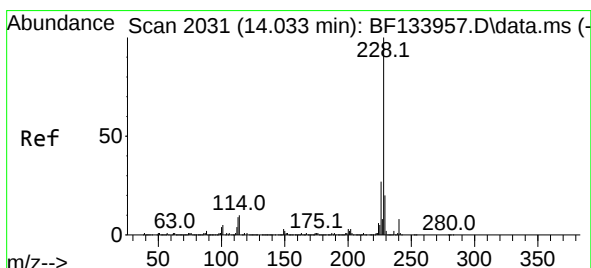
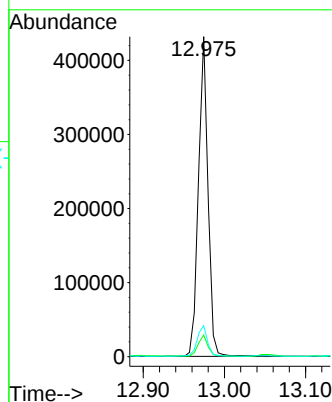
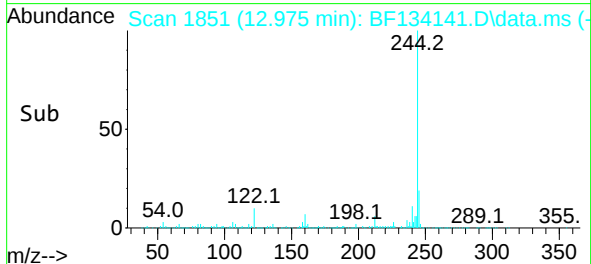
Tgt Ion:244 Resp: 355060
 Ion Ratio Lower Upper
 244 100
 212 6.7 6.0 9.0
 122 9.7 8.3 12.5

Manual Integrations

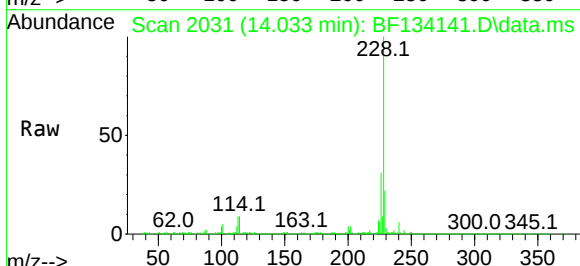
APPROVED

Reviewed By :Yogesh Patel 07/09/2023

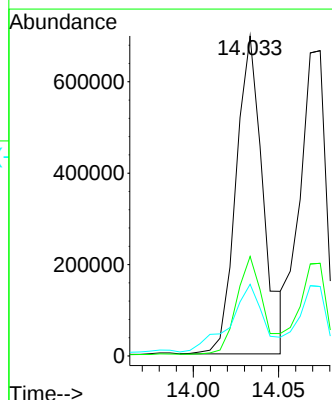
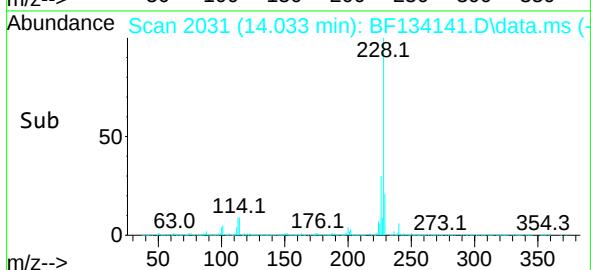
Supervised By :mohammad ahmed 07/09/2023

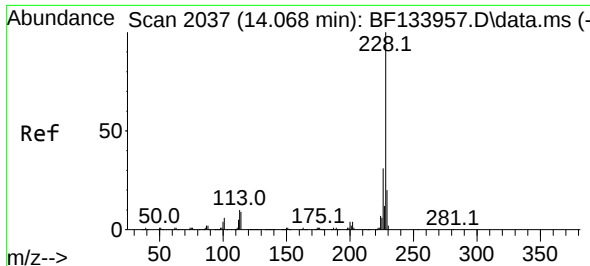


#81
 Benzo(a)anthracene
 Concen: 69.721 ng
 RT: 14.033 min Scan# 2031
 Delta R.T. -0.006 min
 Lab File: BF134141.D
 Acq: 07 Jul 2023 16:59



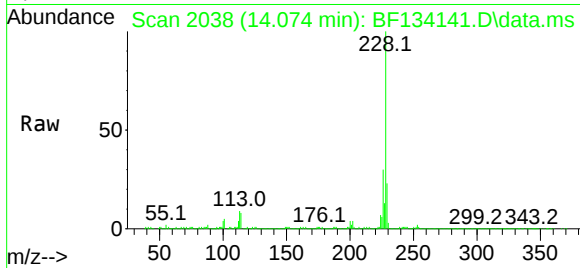
Tgt Ion:228 Resp: 768296
 Ion Ratio Lower Upper
 228 100
 226 31.1 22.0 33.0
 229 22.4 16.3 24.5





#83
Chrysene
Concen: 68.120 ng
RT: 14.074 min Scan# 2037
Delta R.T. 0.000 min
Lab File: BF134141.D
Acq: 07 Jul 2023 16:59

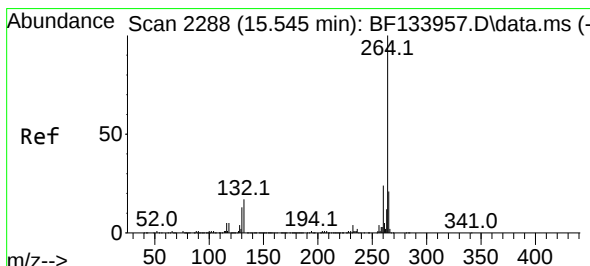
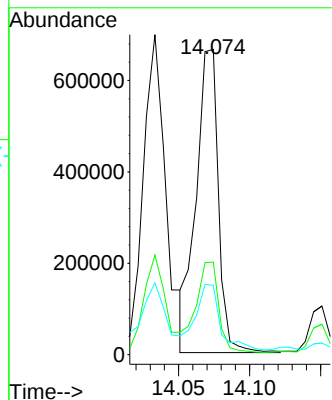
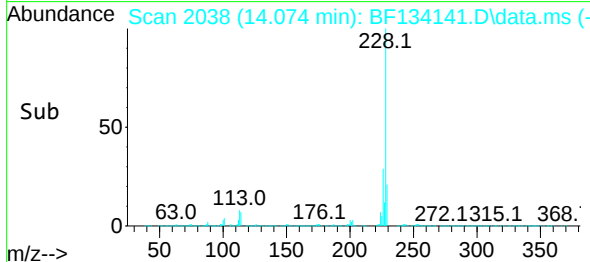
Instrument :
BNA_F
ClientSampleId :
OK-2-063023



Tgt Ion:228 Resp: 727054
Ion Ratio Lower Upper
228 100
226 30.3 24.4 36.6
229 22.7 16.1 24.1

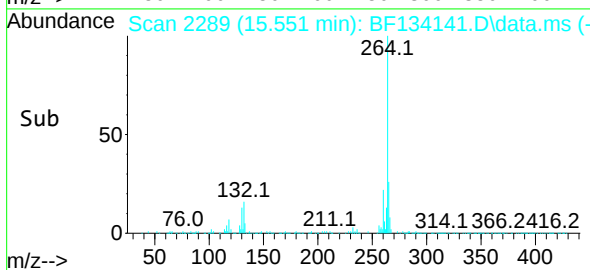
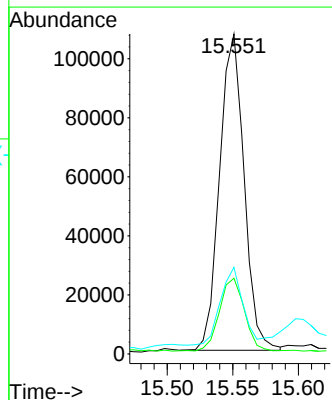
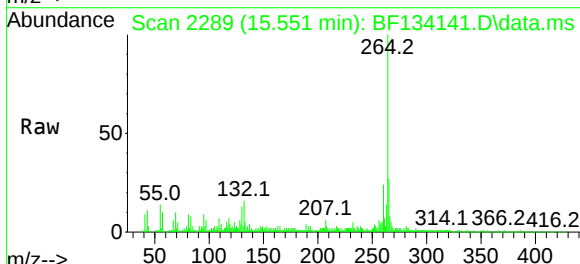
Manual Integrations
APPROVED

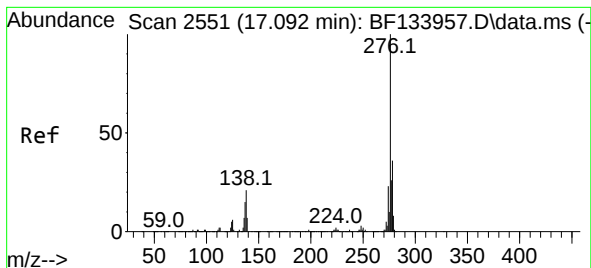
Reviewed By :Yogesh Patel 07/09/2023
Supervised By :mohammad ahmed 07/09/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.551 min Scan# 2289
Delta R.T. 0.000 min
Lab File: BF134141.D
Acq: 07 Jul 2023 16:59

Tgt Ion:264 Resp: 138934
Ion Ratio Lower Upper
264 100
260 23.6 19.5 29.3
265 27.0 16.6 25.0#





#87

Indeno(1,2,3-cd)pyrene

Concen: 21.364 ng

RT: 17.098 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF134141.D

Acq: 07 Jul 2023 16:59

Instrument :

BNA_F

ClientSampleId :

OK-2-063023

Tgt Ion:276 Resp: 205960

Ion Ratio Lower Upper

276 100

138 19.1 18.7 28.1

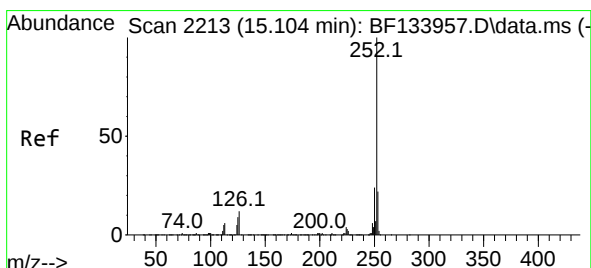
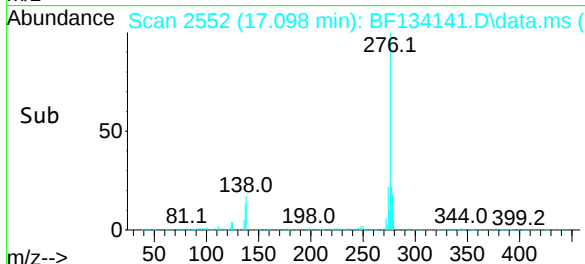
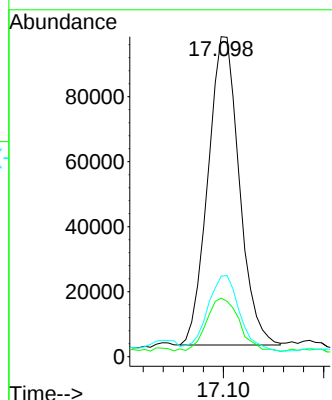
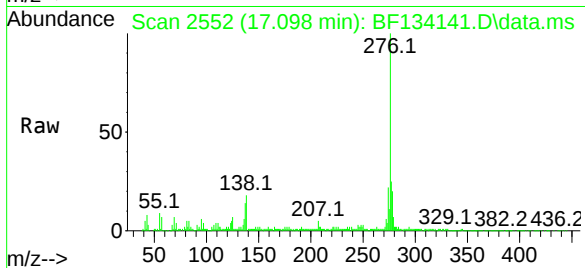
277 25.0 19.9 29.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/09/2023

Supervised By :mohammad ahmed 07/09/2023



#88

Benzo(b)fluoranthene

Concen: 62.455 ng m

RT: 15.110 min Scan# 2214

Delta R.T. 0.000 min

Lab File: BF134141.D

Acq: 07 Jul 2023 16:59

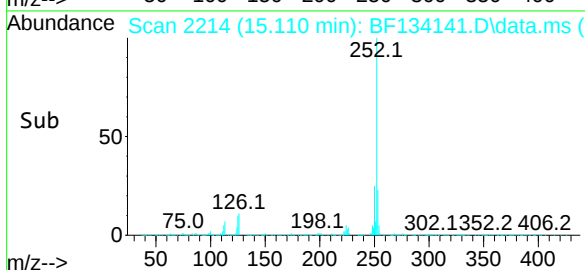
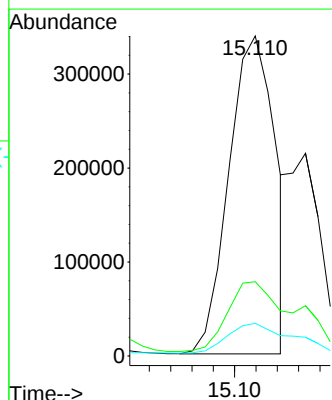
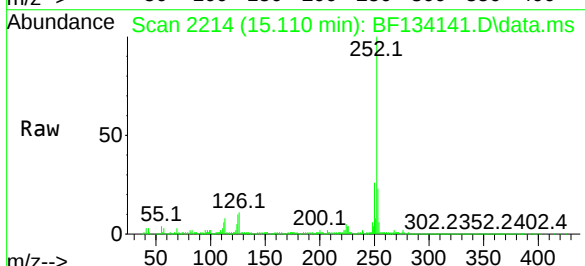
Tgt Ion:252 Resp: 510219

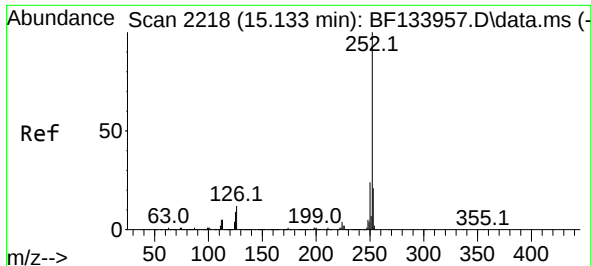
Ion Ratio Lower Upper

252 100

253 23.2 17.4 26.0

125 10.2 7.1 10.7





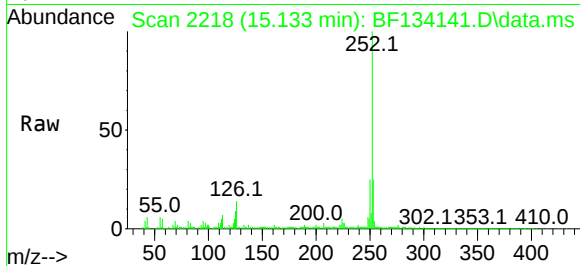
#89
Benzo(k)fluoranthene
Concen: 25.762 ng m
RT: 15.133 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF134141.D
Acq: 07 Jul 2023 16:59

Instrument :

BNF_F

ClientSampleId :

OK-2-063023



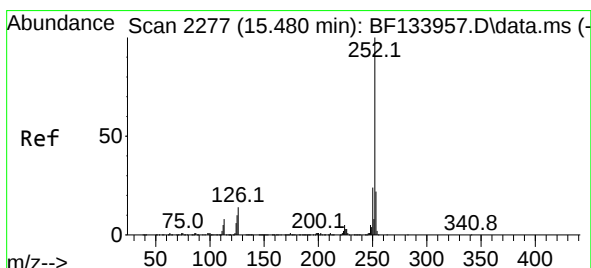
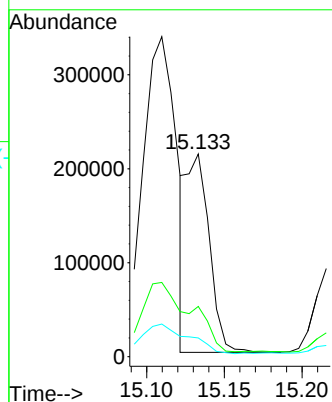
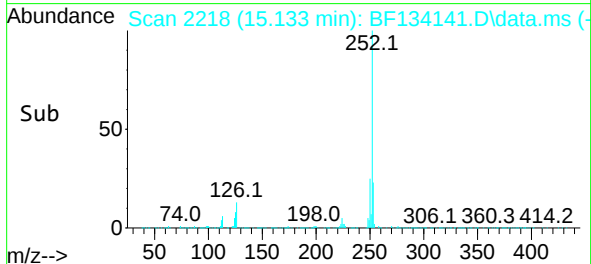
Tgt Ion:252 Resp: 214284
Ion Ratio Lower Upper
252 100
253 24.8 16.9 25.3
125 9.2 7.4 11.2

Manual Integrations

APPROVED

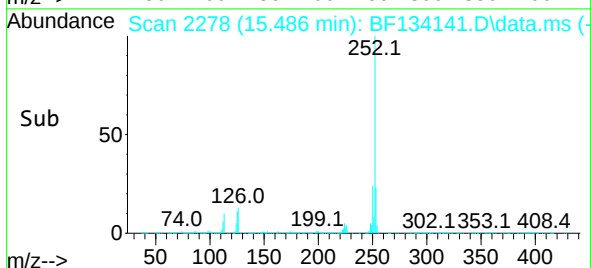
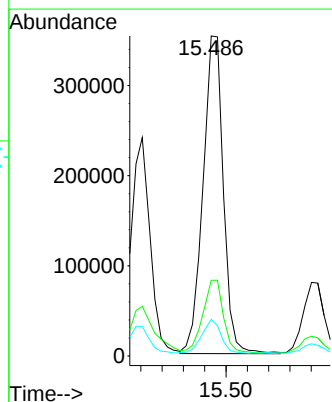
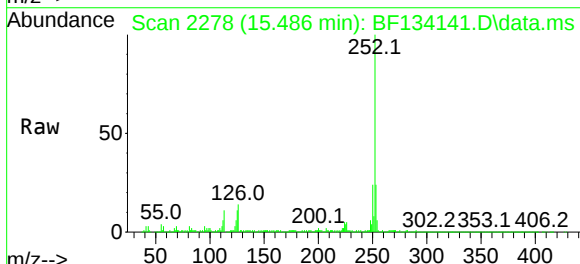
Reviewed By :Yogesh Patel 07/09/2023

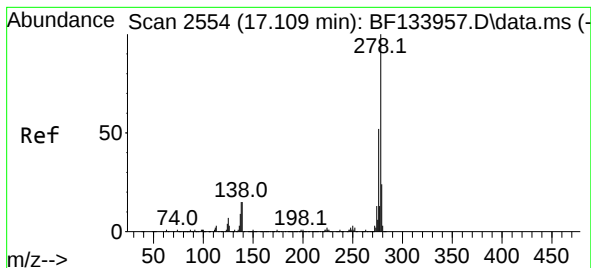
Supervised By :mohammad ahmed 07/09/2023



#90
Benzo(a)pyrene
Concen: 59.455 ng
RT: 15.486 min Scan# 2278
Delta R.T. -0.006 min
Lab File: BF134141.D
Acq: 07 Jul 2023 16:59

Tgt Ion:252 Resp: 469681
Ion Ratio Lower Upper
252 100
253 23.7 17.4 26.0
125 11.4 8.4 12.6





#91

Dibenzo(a,h)anthracene

Concen: 6.436 ng

RT: 17.110 min Scan# 2554

Delta R.T. -0.018 min

Lab File: BF134141.D

Acq: 07 Jul 2023 16:59

Instrument :

BNA_F

ClientSampleId :

OK-2-063023

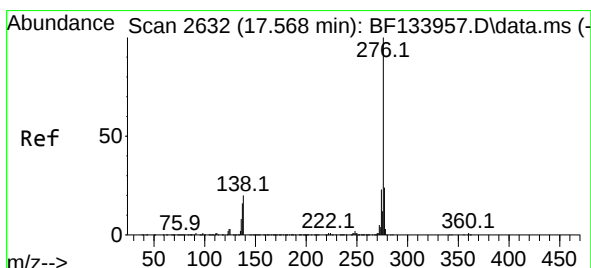
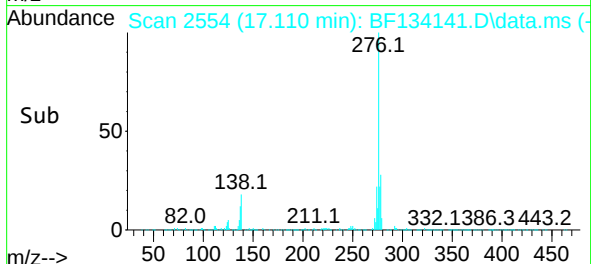
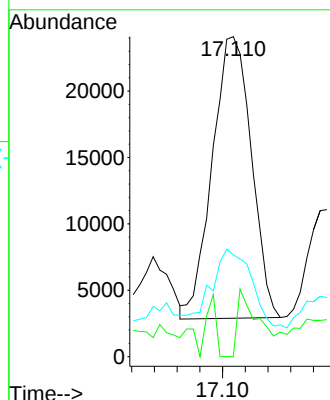
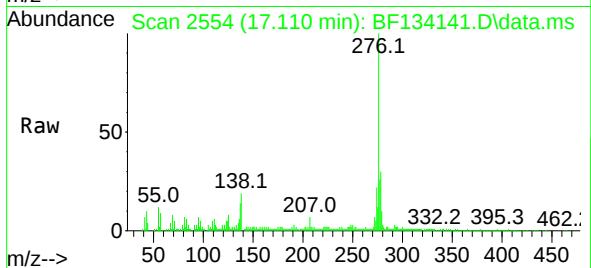
Tgt Ion:	278	Resp:	50678
Ion Ratio	Lower	Upper	
278	100		
139	0.0	12.2	18.4
279	31.8	19.4	29.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/09/2023

Supervised By :mohammad ahmed 07/09/2023



#92

Benzo(g,h,i)perylene

Concen: 26.673 ng

RT: 17.574 min Scan# 2633

Delta R.T. -0.006 min

Lab File: BF134141.D

Acq: 07 Jul 2023 16:59

Tgt Ion:	276	Resp:	216598
Ion Ratio	Lower	Upper	
276	100		
277	25.1	19.0	28.6
138	18.7	16.2	24.2

