

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062323\
 Data File : BF133936.D
 Acq On : 23 Jun 2023 11:26
 Operator : CG\JU
 Sample : 03328-13DL 2X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 COMPOSIT-SW02-0-8DL

Quant Time: Jun 23 11:58:15 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 23 02:21:26 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/26/2023
 Supervised By :mohammad ahmed 06/27/2023

Supervised By :mohammad
 ahmed
 06/27/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.857	152	118274	20.000	ng	0.00
21) Naphthalene-d8	8.139	136	445226	20.000	ng	0.00
39) Acenaphthene-d10	9.898	164	212322	20.000	ng	0.00
64) Phenanthrene-d10	11.392	188	352959	20.000	ng	0.00
76) Chrysene-d12	14.051	240	210017	20.000	ng	0.00
86) Perylene-d12	15.557	264	205954	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	290891	42.817	ng	0.00
7) Phenol-d6	6.487	99	359743	40.680	ng	-0.01
23) Nitrobenzene-d5	7.416	82	237996	29.115	ng	-0.01
42) 2,4,6-Tribromophenol	10.686	330	94088	35.008	ng	-0.01
45) 2-Fluorobiphenyl	9.216	172	467576	31.305	ng	0.00
79) Terphenyl-d14	12.986	244	384564	28.334	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.157	128	47243	2.178	ng	99
52) Acenaphthene	9.928	154	40744	3.256	ng	98
55) Dibenzofuran	10.098	168	41819	2.190	ng	98
58) Fluorene	10.445	166	54280	3.717	ng	97
71) Phenanthrene	11.416	178	560154	31.281	ng	99
72) Anthracene	11.463	178	143327	7.676	ng	99
73) Carbazole	11.622	167	56760	3.264	ng	99
75) Fluoranthene	12.616	202	790411	41.565	ng	100
78) Pyrene	12.845	202	669354	34.214	ng	99
81) Benzo(a)anthracene	14.039	228	360219	24.797	ng	98
83) Chrysene	14.074	228	286348	20.841	ng	97
87) Indeno(1,2,3-cd)pyrene	17.104	276	160443	11.323	ng	97
88) Benzo(b)fluoranthene	15.115	252	394076m	31.499	ng	
89) Benzo(k)fluoranthene	15.139	252	111626m	9.159	ng	
90) Benzo(a)pyrene	15.492	252	257207	22.152	ng	96
91) Dibenzo(a,h)anthracene	17.115	278	40393m	3.443	ng	
92) Benzo(g,h,i)perylene	17.574	276	146094	12.561	ng	96

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

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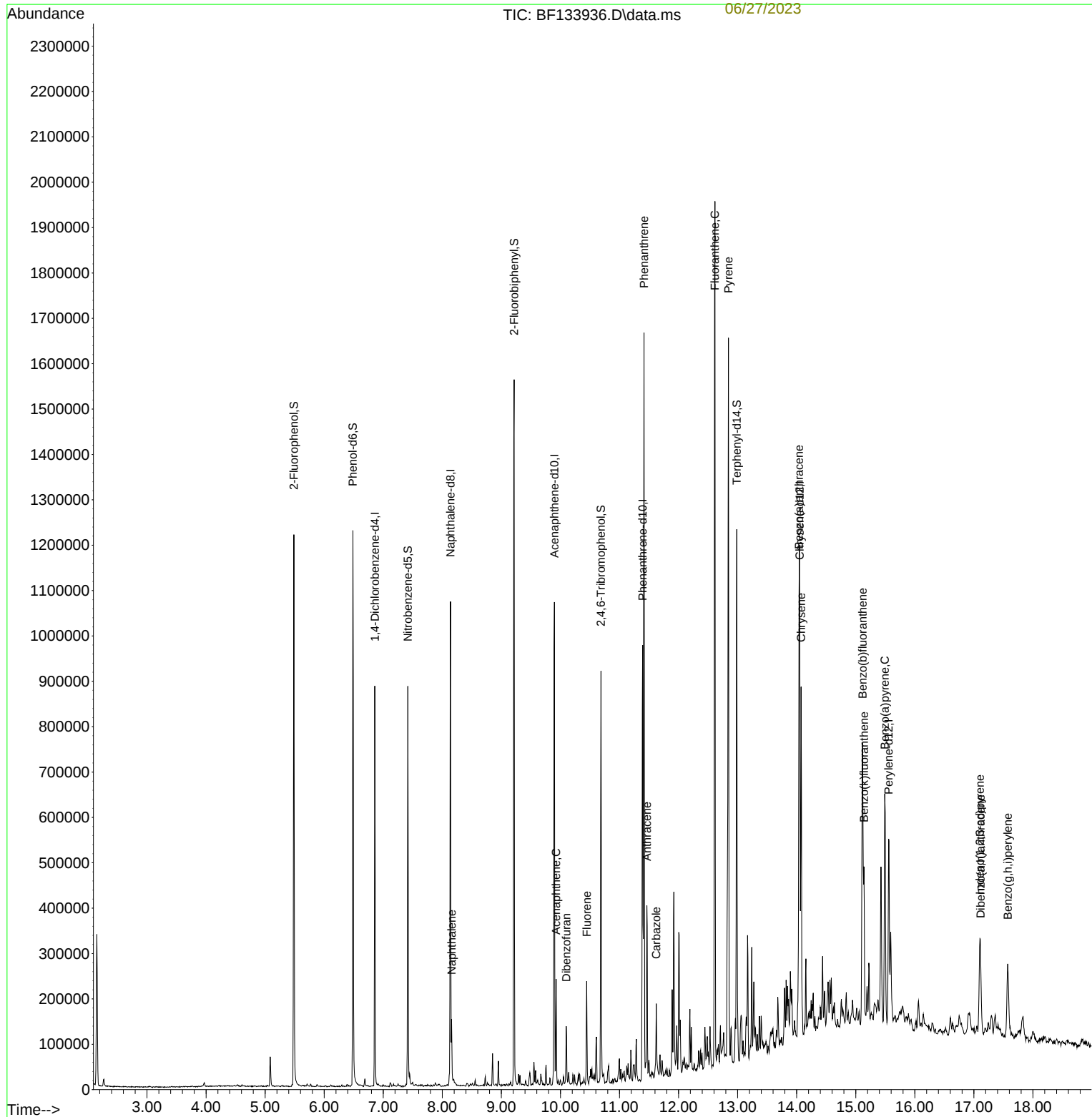
Instrument :
BNA_F
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COMPOSIT-SW02-0-8DL

Quant Time: Jun 23 11:58:15 2023
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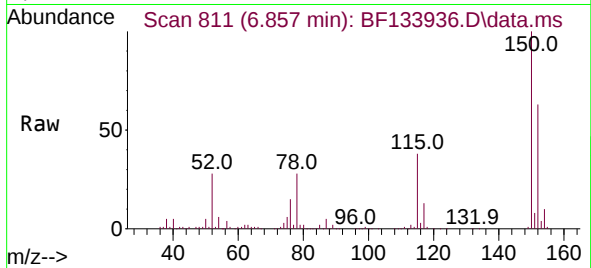
Supervised By :mohammad
ahmed
06/27/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.857 min Scan# 811
Delta R.T. -0.006 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26

Instrument :
BNA_F
ClientSampleId :
COMPOSIT-SW02-0-8DL

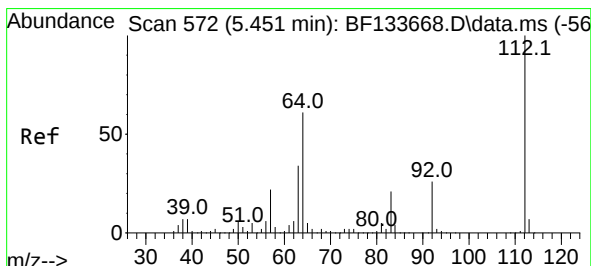
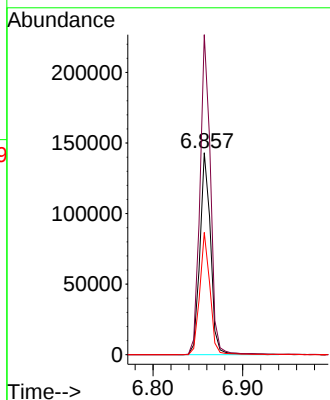
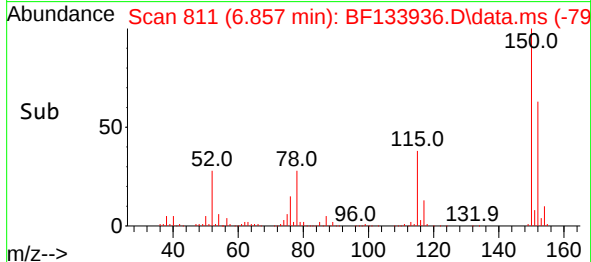


Tgt Ion:152 Resp: 118274
Ion Ratio Lower Upper
152 100
150 158.5 124.3 186.5
115 60.5 48.5 72.7

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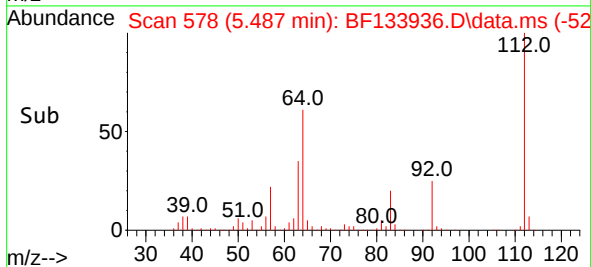
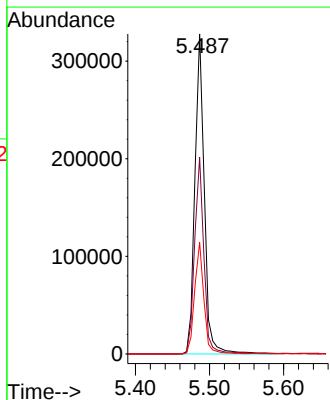
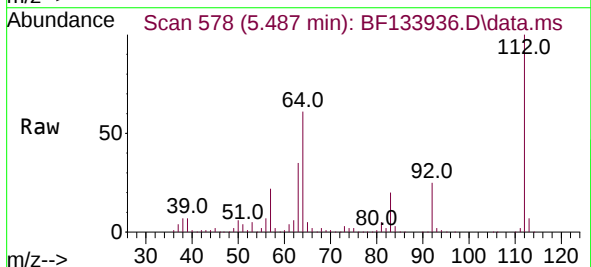
Reviewed By :Yogesh Patel 06/26/2023
Supervised By :mohammad ahmed 06/27/2023

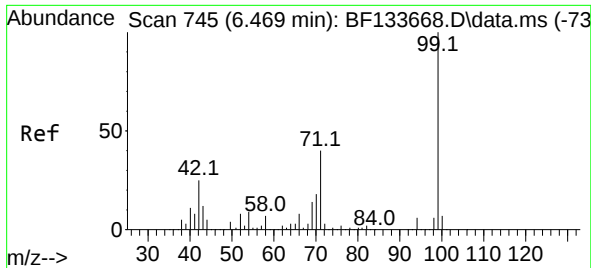
Supervised By :mohammad
ahmed
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#5
2-Fluorophenol
Concen: 42.817 ng
RT: 5.487 min Scan# 578
Delta R.T. -0.006 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26

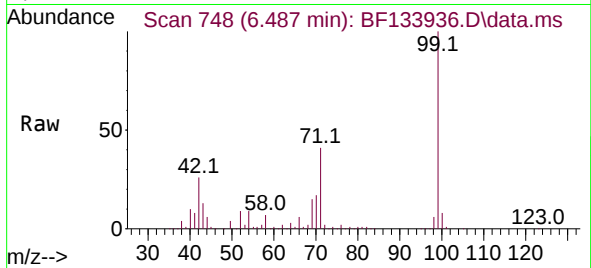
Tgt Ion:112 Resp: 290891
Ion Ratio Lower Upper
112 100
64 61.5 49.0 73.4
63 34.9 26.8 40.2





#7
Phenol-d6
Concen: 40.680 ng
RT: 6.487 min Scan# 745
Delta R.T. -0.012 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26

Instrument :
BNA_F
ClientSampleId :
COMPOSIT-SW02-0-8DL

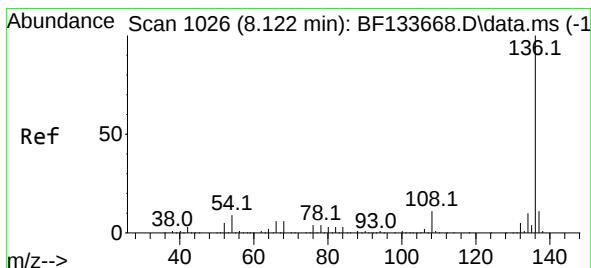
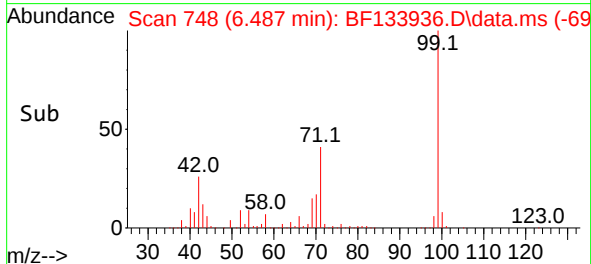
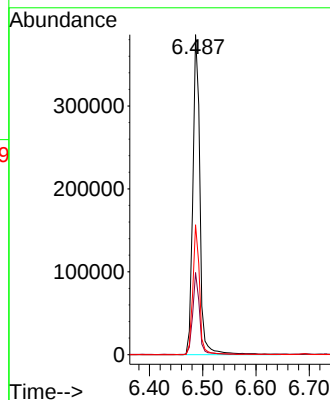


Tgt Ion: 99 Resp: 35974
Ion Ratio Lower Upper
99 100
42 25.7 19.9 29.9
71 40.6 32.2 48.4

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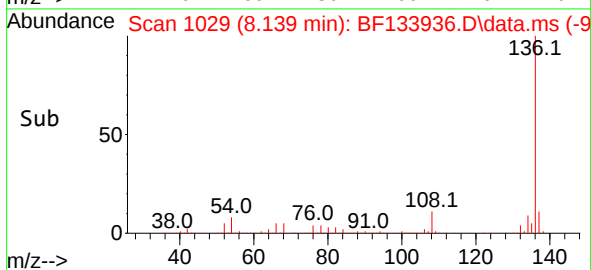
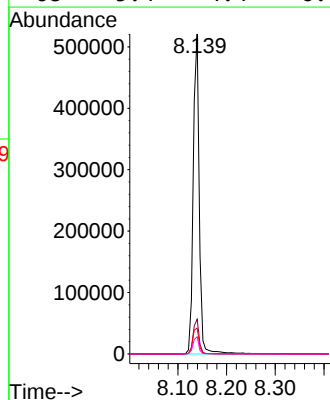
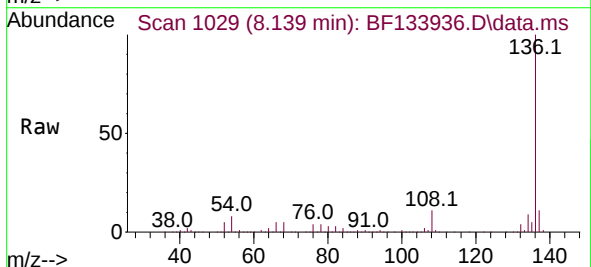
Reviewed By :Yogesh Patel 06/26/2023
Supervised By :mohammad ahmed 06/27/2023

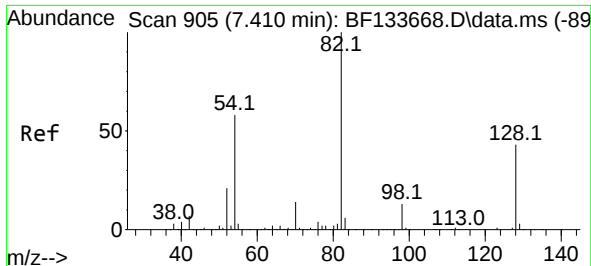
Supervised By :mohammad
ahmed
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.139 min Scan# 1029
Delta R.T. 0.000 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26

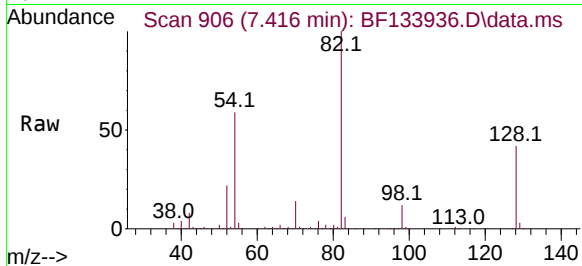
Tgt Ion:136 Resp: 445226
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 8.1 7.4 11.0
68 5.4 4.4 6.6





#23
Nitrobenzene-d5
Concen: 29.115 ng
RT: 7.416 min Scan# 905
Delta R.T. -0.012 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26

Instrument :
BNA_F
Client Sample Id :
COMPOSIT-SW02-0-8DL

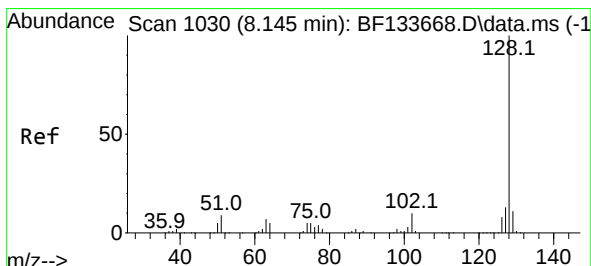
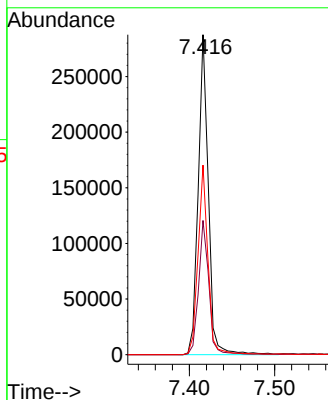
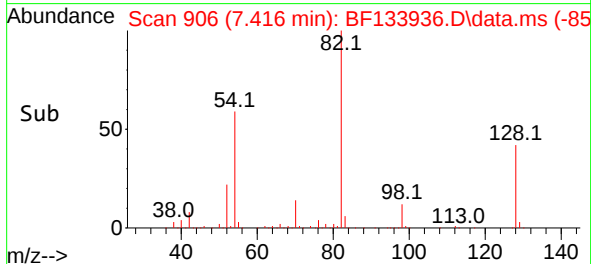


Tgt Ion: 82 Resp: 237990
Ion Ratio Lower Upper
82 100
128 42.0 34.2 51.2
54 59.2 46.5 69.7

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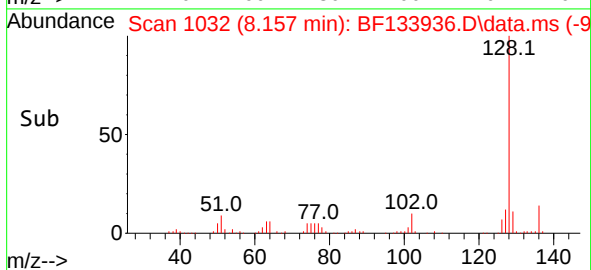
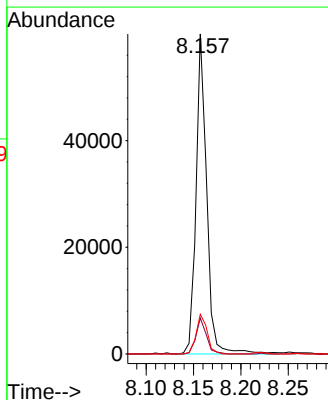
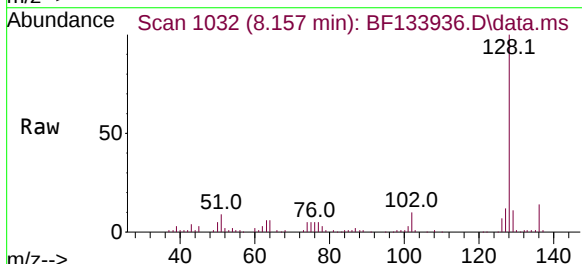
Reviewed By :Yogesh Patel 06/26/2023
Supervised By :mohammad ahmed 06/27/2023

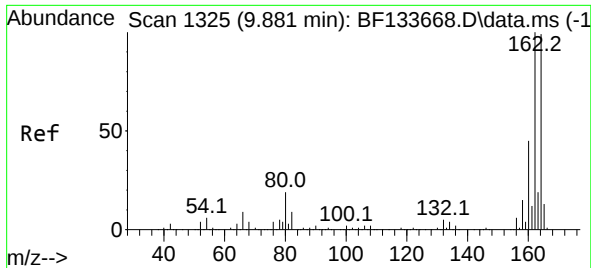
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ahmed
06/27/2023



#31
Naphthalene
Concen: 2.178 ng
RT: 8.157 min Scan# 1032
Delta R.T. -0.006 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26

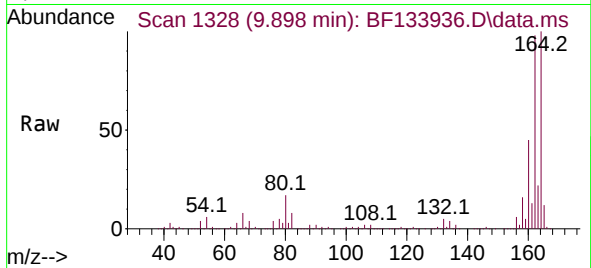
Tgt Ion:128 Resp: 47243
Ion Ratio Lower Upper
128 100
129 11.2 8.9 13.3
127 12.4 10.5 15.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.898 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26

Instrument :
BNA_F
ClientSampleId :
COMPOSIT-SW02-0-8DL

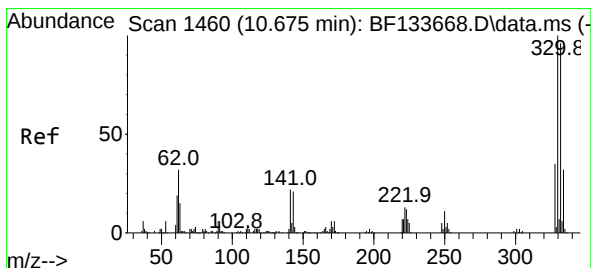
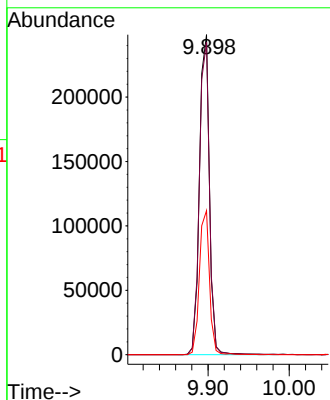
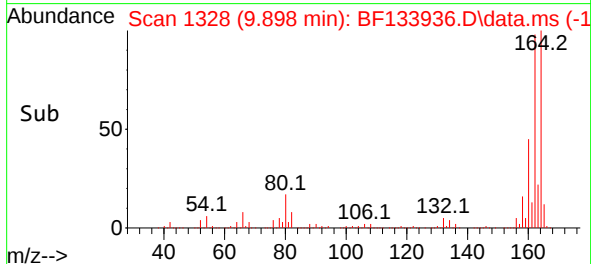


Tgt Ion:164 Resp: 21232
Ion Ratio Lower Upper
164 100
162 97.7 80.8 121.2
160 45.0 36.7 55.1

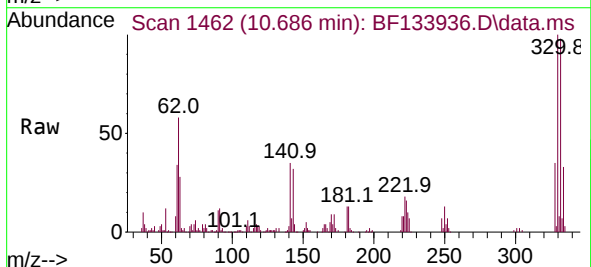
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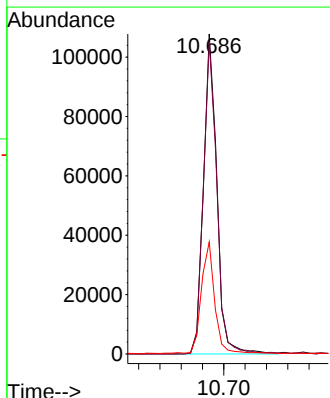
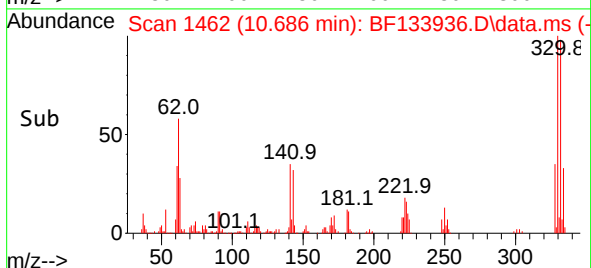
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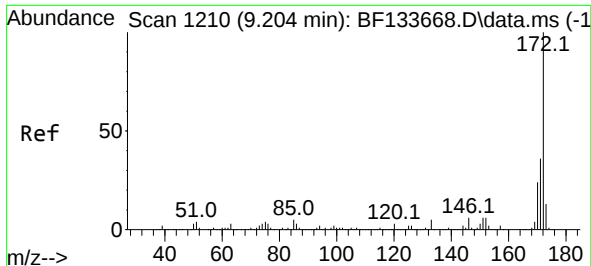


#42
2,4,6-Tribromophenol
Concen: 35.008 ng
RT: 10.686 min Scan# 1462
Delta R.T. -0.012 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26



Tgt Ion:330 Resp: 94088
Ion Ratio Lower Upper
330 100
332 98.3 77.2 115.8
141 34.7 24.9 37.3





#45

2-Fluorobiphenyl

Concen: 31.305 ng

RT: 9.216 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF133936.D

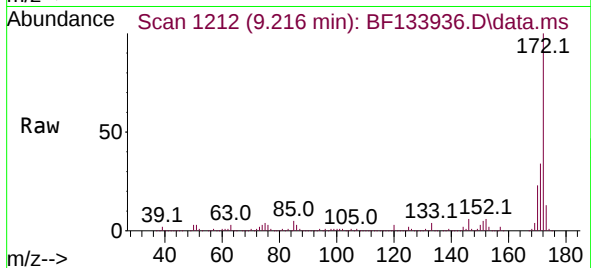
Acq: 23 Jun 2023 11:26

Instrument :

BNA_F

ClientSampleId :

COMPOSIT-SW02-0-8DL



Tgt Ion:172 Resp: 467570

Ion Ratio Lower Upper

172 100

171 34.2 28.6 43.0

170 23.1 19.1 28.7

Manual Integrations

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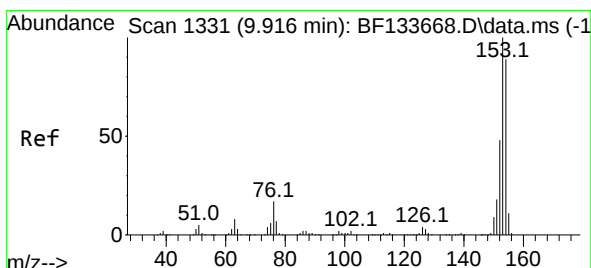
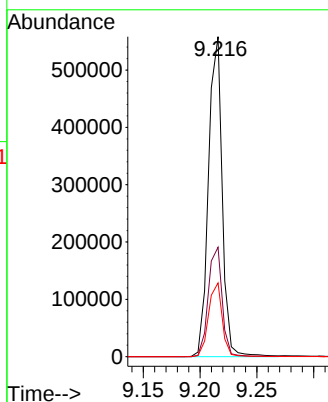
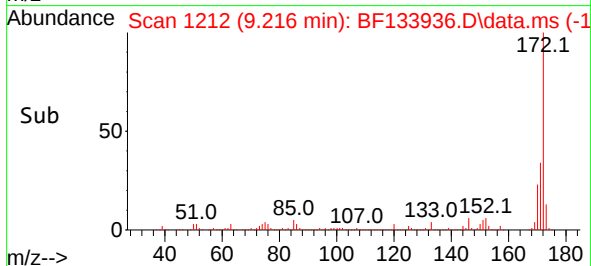
Reviewed By :Yogesh Patel 06/26/2023

Supervised By :mohammad ahmed 06/27/2023

Supervised By :mohammad

ahmed

06/27/2023



#52

Acenaphthene

Concen: 3.256 ng

RT: 9.928 min Scan# 1333

Delta R.T. -0.006 min

Lab File: BF133936.D

Acq: 23 Jun 2023 11:26

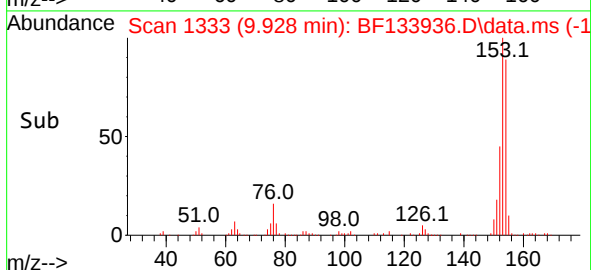
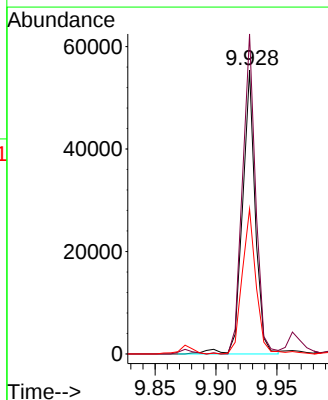
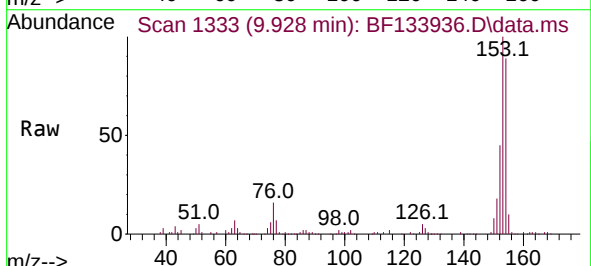
Tgt Ion:154 Resp: 40744

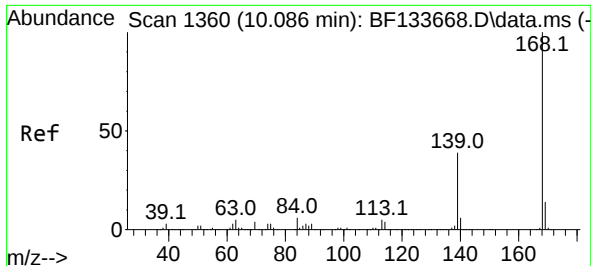
Ion Ratio Lower Upper

154 100

153 112.7 89.8 134.8

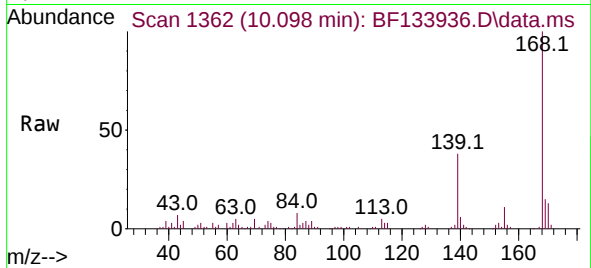
152 51.1 43.4 65.2





#55
Dibenzenofuran
Concen: 2.190 ng
RT: 10.098 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26

Instrument :
BNA_F
ClientSampleId :
COMPOSIT-SW02-0-8DL

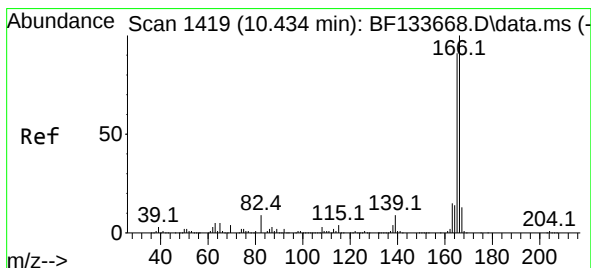
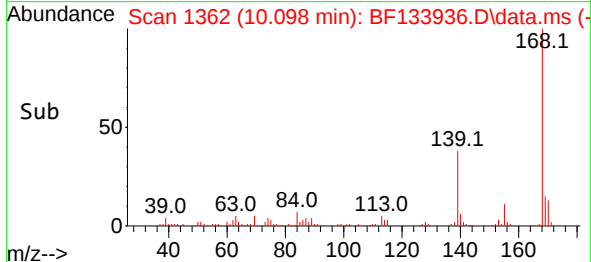
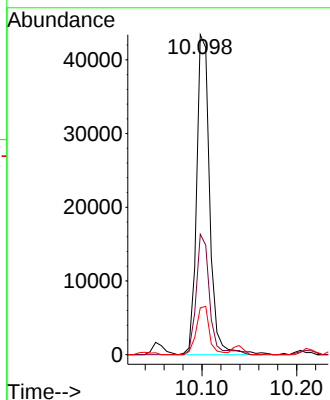


Tgt Ion:168 Resp: 41819
Ion Ratio Lower Upper
168 100
139 37.7 30.9 46.3
169 14.7 10.9 16.3

Manual Integrations
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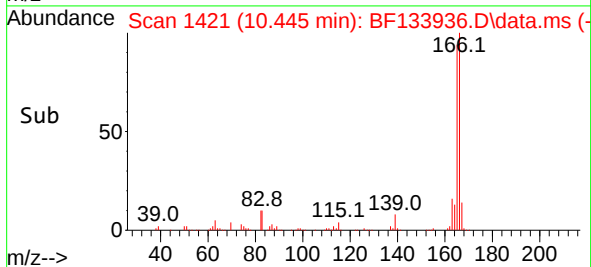
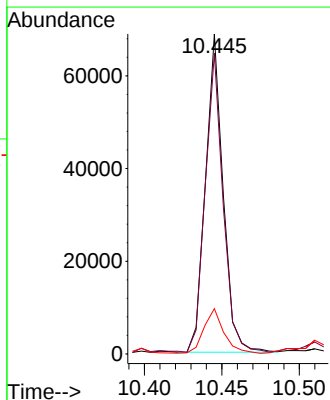
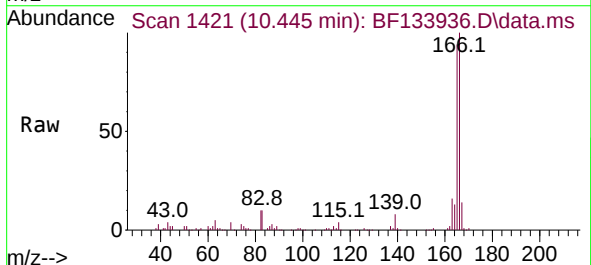
Reviewed By :Yogesh Patel 06/26/2023
Supervised By :mohammad ahmed 06/27/2023

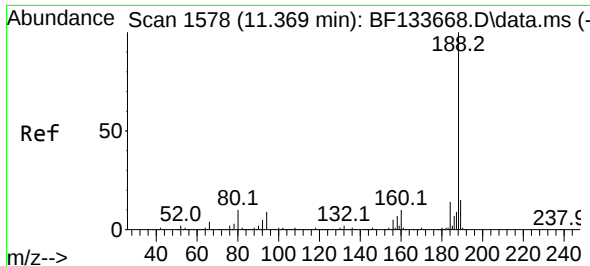
Supervised By :mohammad
ahmed
06/27/2023



#58
Fluorene
Concen: 3.717 ng
RT: 10.445 min Scan# 1421
Delta R.T. -0.006 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26

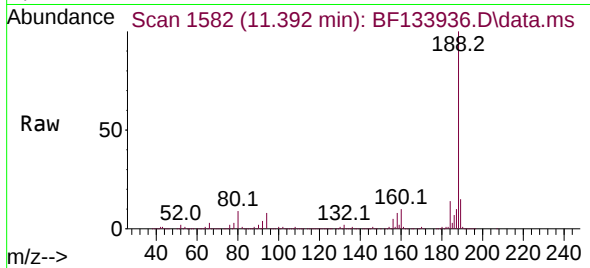
Tgt Ion:166 Resp: 54280
Ion Ratio Lower Upper
166 100
165 94.0 73.1 109.7
167 14.2 10.5 15.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26

Instrument :
BNA_F
ClientSampleId :
COMPOSIT-SW02-0-8DL

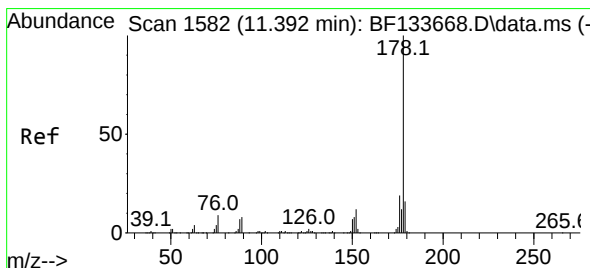
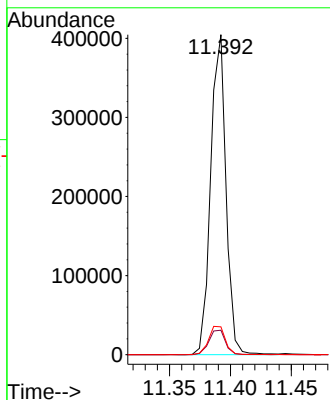
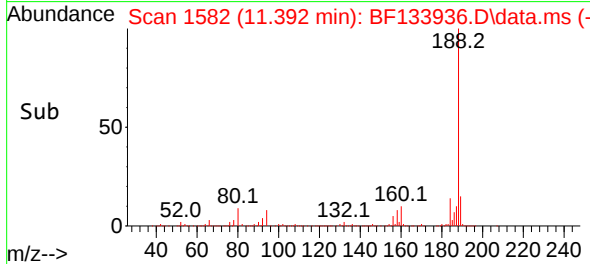


Tgt Ion:188 Resp: 352959
Ion Ratio Lower Upper
188 100
94 7.6 6.8 10.2
80 8.7 7.8 11.6

Manual Integrations
APPROVED

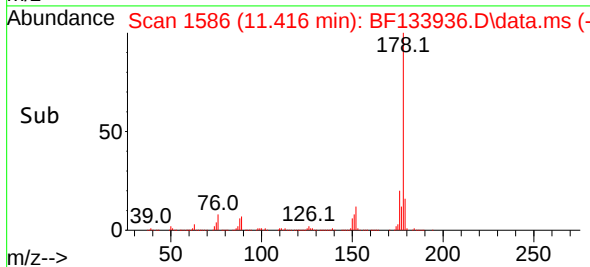
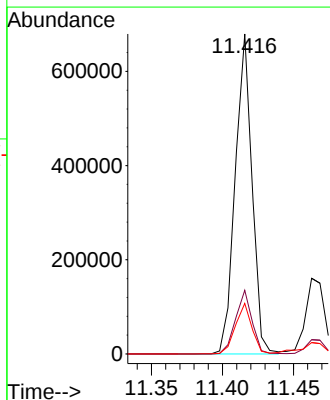
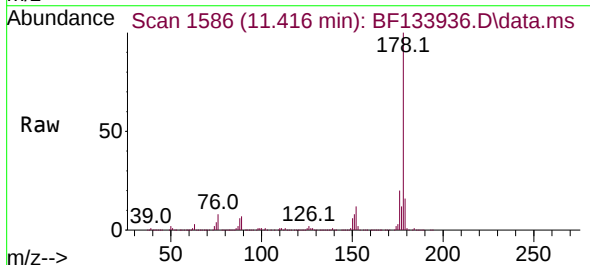
Reviewed By :Yogesh Patel 06/26/2023
Supervised By :mohammad ahmed 06/27/2023

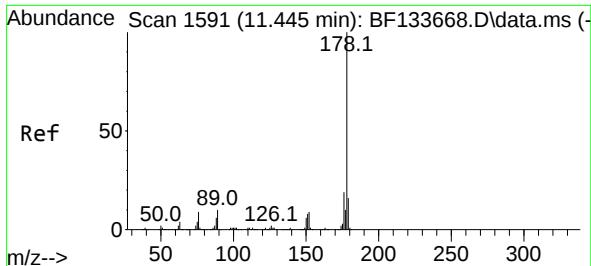
Supervised By :mohammad
ahmed
06/27/2023



#71
Phenanthrene
Concen: 31.281 ng
RT: 11.416 min Scan# 1586
Delta R.T. -0.006 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26

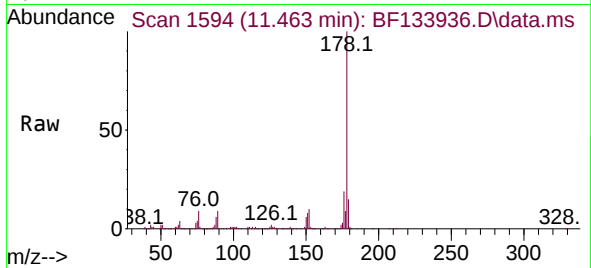
Tgt Ion:178 Resp: 560154
Ion Ratio Lower Upper
178 100
176 19.9 15.6 23.4
179 15.8 12.4 18.6





#72
 Anthracene
 Concen: 7.676 ng
 RT: 11.463 min Scan# 1591
 Delta R.T. -0.012 min
 Lab File: BF133936.D
 Acq: 23 Jun 2023 11:26

Instrument :
 BNA_F
 ClientSampleId :
 COMPOSIT-SW02-0-8DL

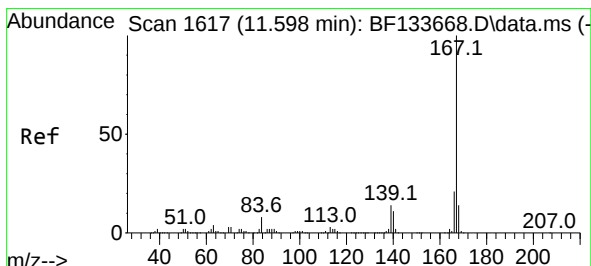
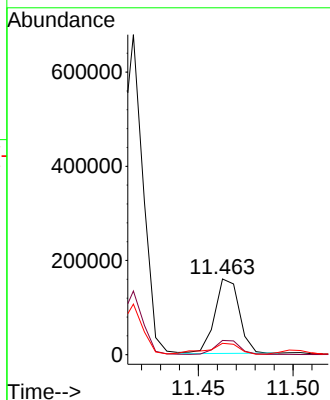
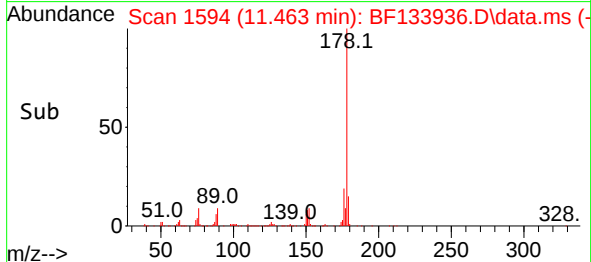


Tgt Ion:178 Resp: 14332
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.1 22.7
 179 15.0 12.6 18.8

Manual Integrations
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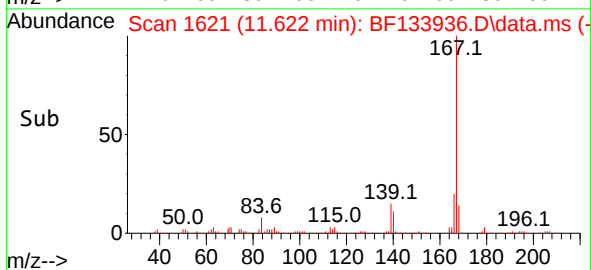
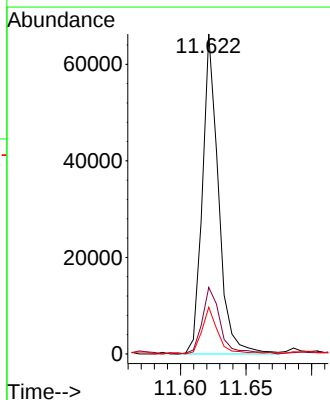
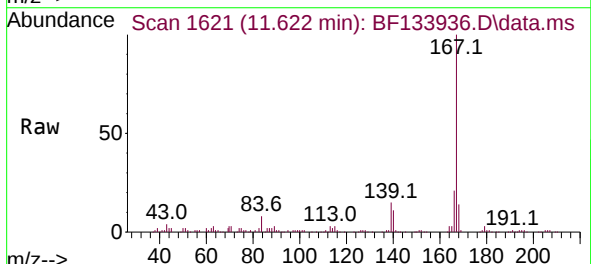
Reviewed By :Yogesh Patel 06/26/2023
 Supervised By :mohammad ahmed 06/27/2023

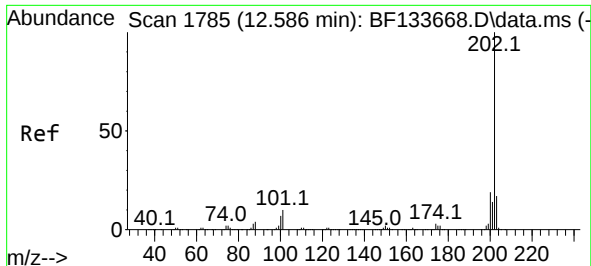
Supervised By :mohammad
 ahmed
 06/27/2023



#73
 Carbazole
 Concen: 3.264 ng
 RT: 11.622 min Scan# 1621
 Delta R.T. -0.006 min
 Lab File: BF133936.D
 Acq: 23 Jun 2023 11:26

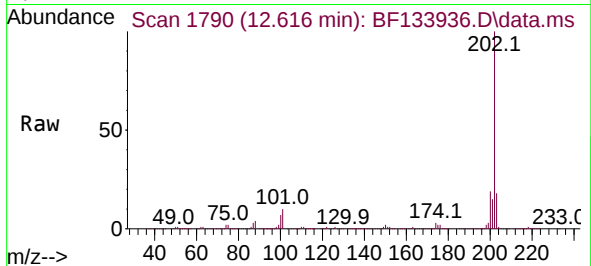
Tgt Ion:167 Resp: 56760
 Ion Ratio Lower Upper
 167 100
 166 20.8 17.0 25.6
 139 14.6 11.2 16.8





#75
Fluoranthene
Concen: 41.565 ng
RT: 12.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26

Instrument :
BNA_F
ClientSampleId :
COMPOSIT-SW02-0-8DL

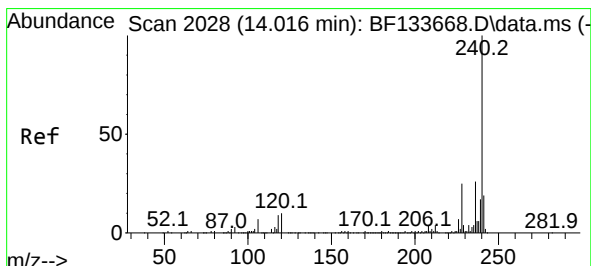
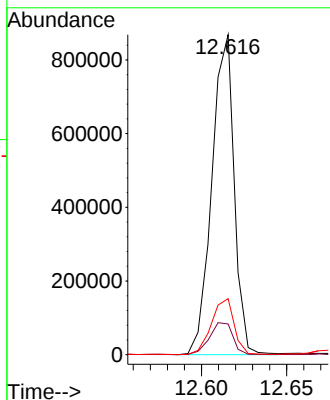
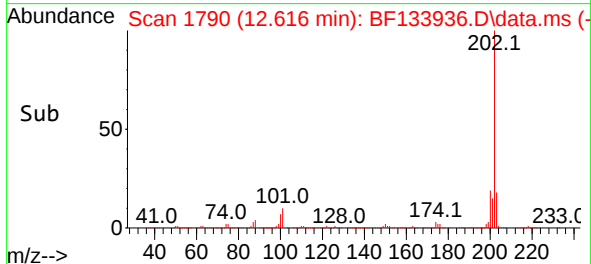


Tgt Ion:202 Resp: 79041
Ion Ratio Lower Upper
202 100
101 9.6 0.0 29.6
203 17.5 0.0 37.4

Manual Integrations
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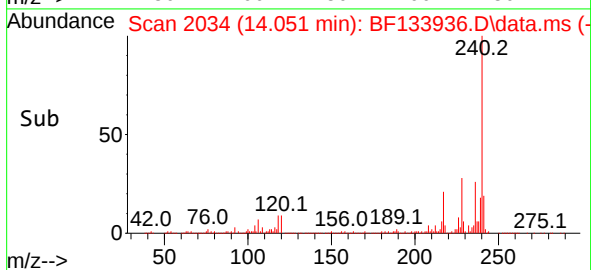
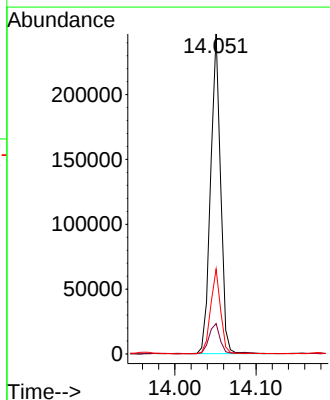
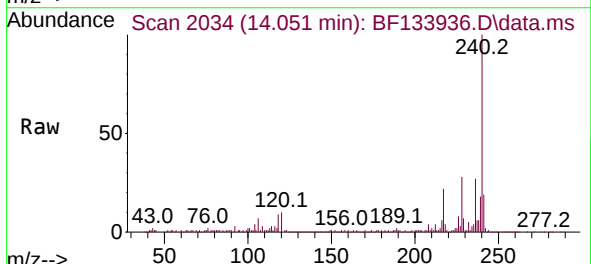
Reviewed By :Yogesh Patel 06/26/2023
Supervised By :mohammad ahmed 06/27/2023

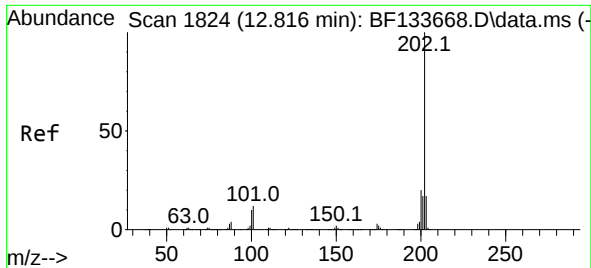
Supervised By :mohammad
ahmed
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#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2034
Delta R.T. -0.006 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26

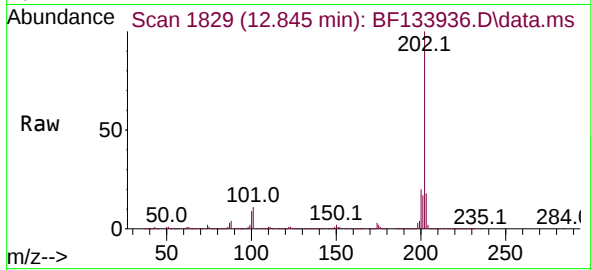
Tgt Ion:240 Resp: 210017
Ion Ratio Lower Upper
240 100
120 9.5 8.1 12.1
236 26.5 20.5 30.7





#78
 Pyrene
 Concen: 34.214 ng
 RT: 12.845 min Scan# 1829
 Delta R.T. 0.000 min
 Lab File: BF133936.D
 Acq: 23 Jun 2023 11:26

Instrument :
 BNA_F
 ClientSampleId :
 COMPOSIT-SW02-0-8DL

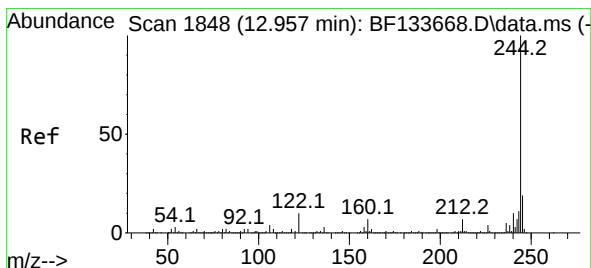
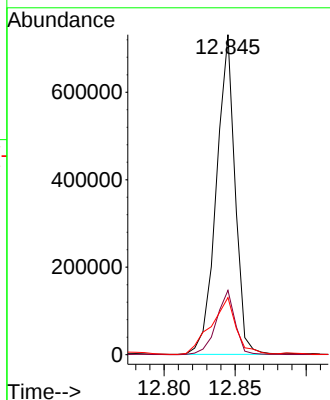
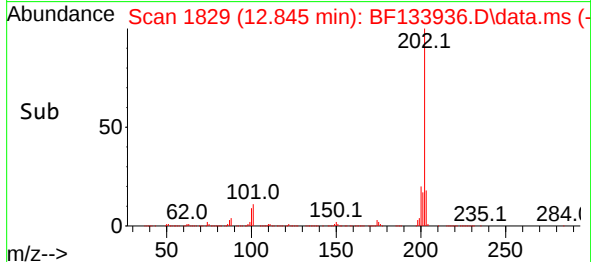


Tgt Ion:202 Resp: 669354
 Ion Ratio Lower Upper
 202 100
 200 20.1 16.2 24.2
 203 17.8 13.9 20.9

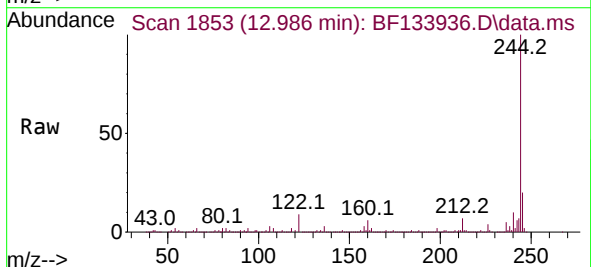
Manual Integrations
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Reviewed By :Yogesh Patel 06/26/2023
 Supervised By :mohammad ahmed 06/27/2023

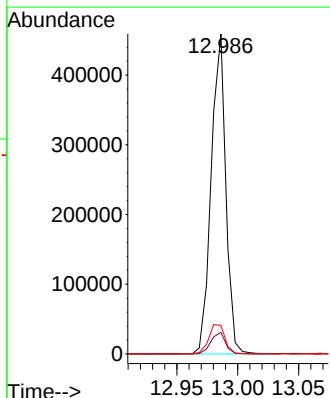
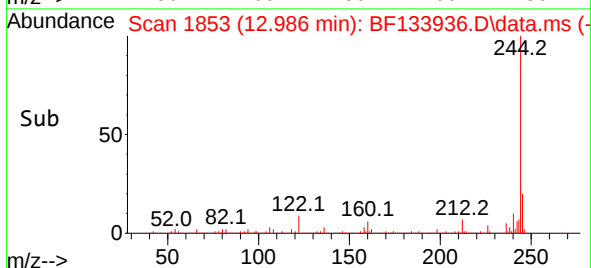
Supervised By :mohammad
 ahmed
 06/27/2023

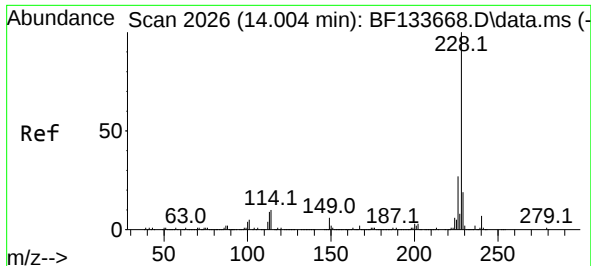


#79
 Terphenyl-d14
 Concen: 28.334 ng
 RT: 12.986 min Scan# 1853
 Delta R.T. -0.006 min
 Lab File: BF133936.D
 Acq: 23 Jun 2023 11:26



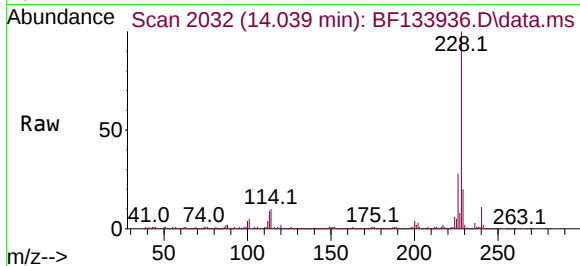
Tgt Ion:244 Resp: 384564
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.4 8.2
 122 8.9 8.1 12.1





#81
Benzo(a)anthracene
Concen: 24.797 ng
RT: 14.039 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26

Instrument :
BNA_F
ClientSampleId :
COMPOSIT-SW02-0-8DL

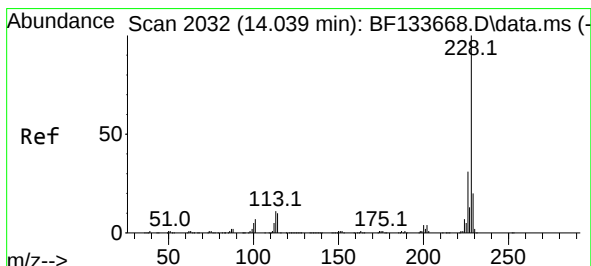
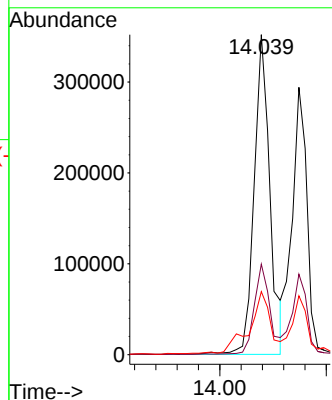
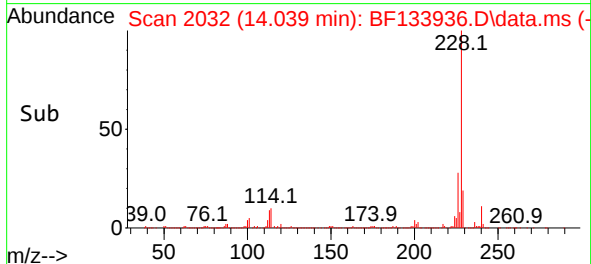


Tgt Ion:228 Resp: 360219
Ion Ratio Lower Upper
228 100
226 28.3 21.7 32.5
229 19.7 15.4 23.2

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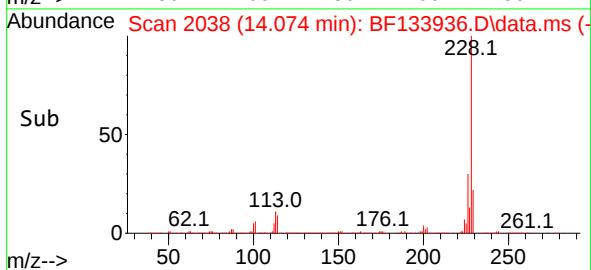
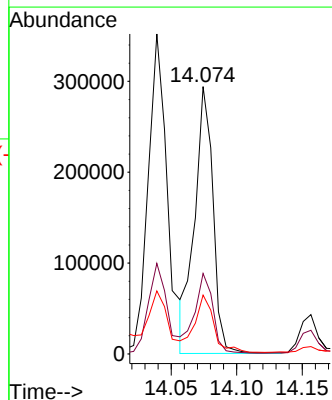
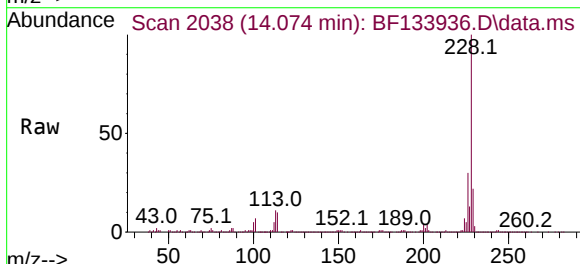
Reviewed By :Yogesh Patel 06/26/2023
Supervised By :mohammad ahmed 06/27/2023

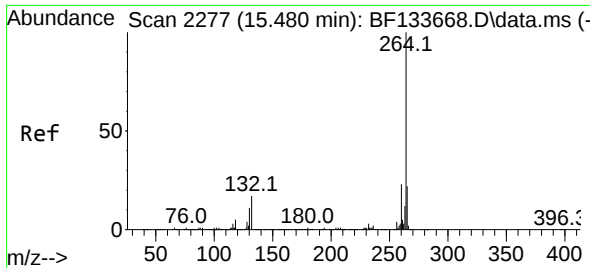
Supervised By :mohammad
ahmed
06/27/2023



#83
Chrysene
Concen: 20.841 ng
RT: 14.074 min Scan# 2038
Delta R.T. -0.006 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26

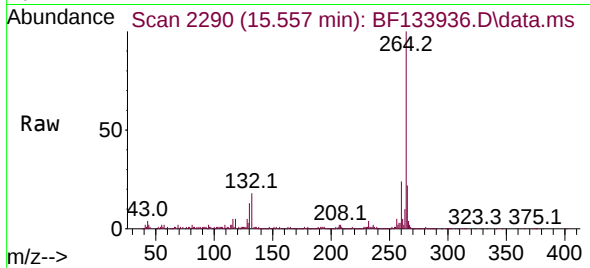
Tgt Ion:228 Resp: 286348
Ion Ratio Lower Upper
228 100
226 30.1 25.0 37.6
229 22.0 15.8 23.8





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26

Instrument :
BNA_F
ClientSampleId :
COMPOSIT-SW02-0-8DL

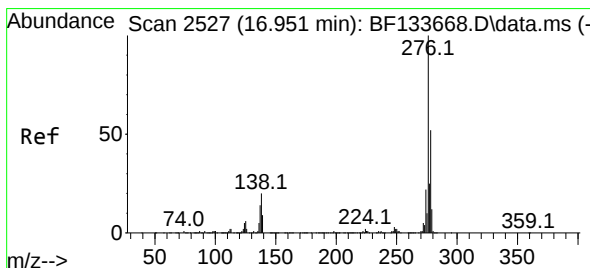
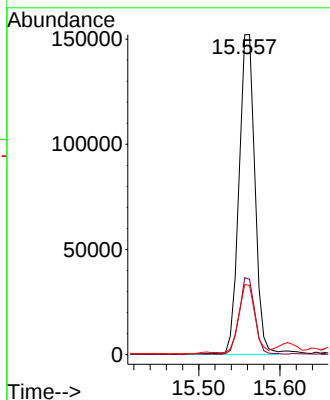
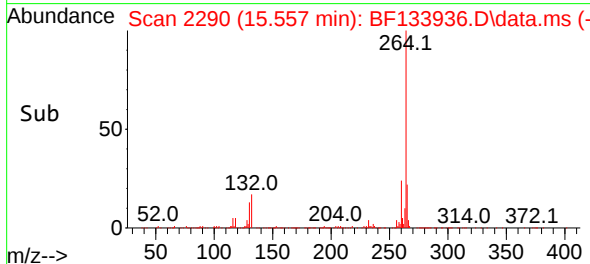


Tgt Ion:264 Resp: 205954
Ion Ratio Lower Upper
264 100
260 24.0 18.2 27.2
265 21.9 17.8 26.6

Manual Integrations
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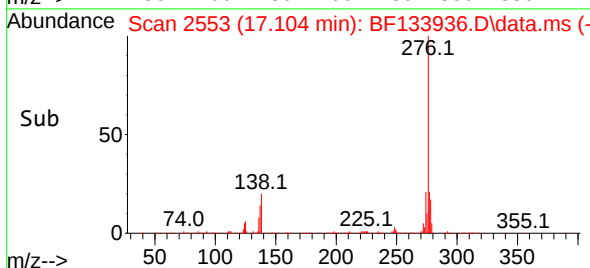
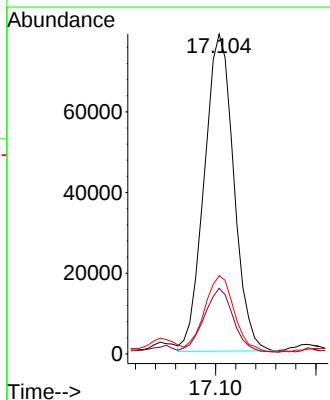
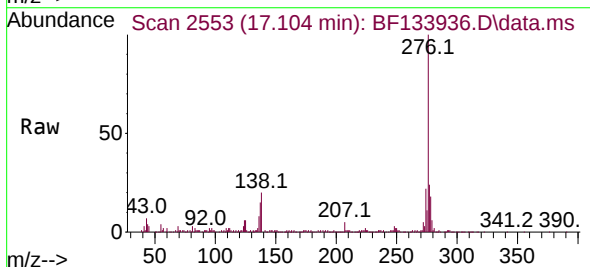
Reviewed By :Yogesh Patel 06/26/2023
Supervised By :mohammad ahmed 06/27/2023

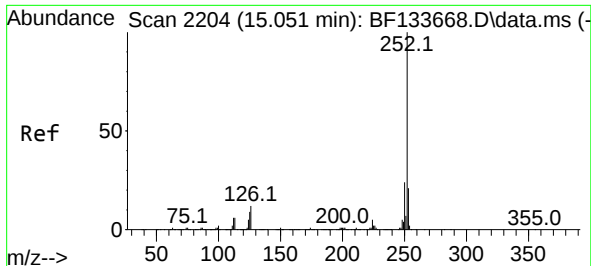
Supervised By :mohammad
ahmed
06/27/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 11.323 ng
RT: 17.104 min Scan# 2553
Delta R.T. -0.018 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26

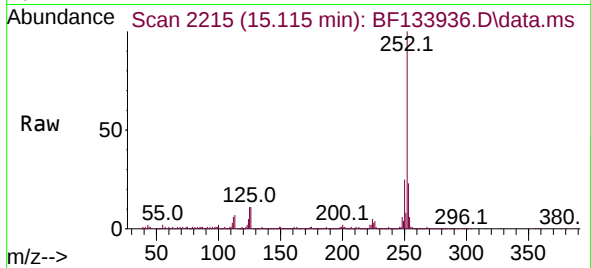
Tgt Ion:276 Resp: 160443
Ion Ratio Lower Upper
276 100
138 20.2 17.9 26.9
277 24.2 20.3 30.5





#88
Benzo(b)fluoranthene
Concen: 31.499 ng m
RT: 15.115 min Scan# 2115
Delta R.T. 0.000 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26

Instrument :
BNA_F
ClientSampleId :
COMPOSIT-SW02-0-8DL

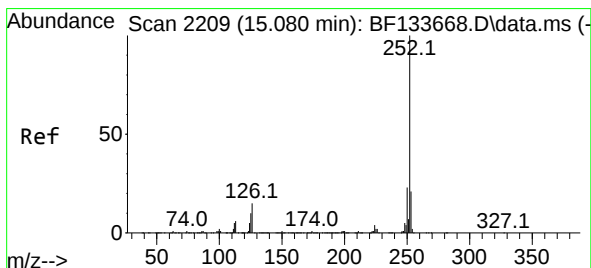
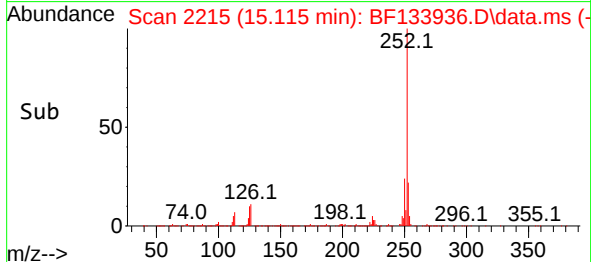
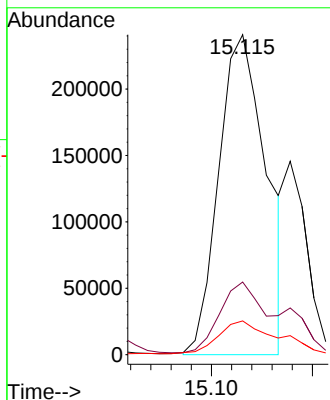


Tgt Ion:252 Resp: 394070
Ion Ratio Lower Upper
252 100
253 22.7 17.0 25.6
125 10.5 7.3 10.9

Manual Integrations
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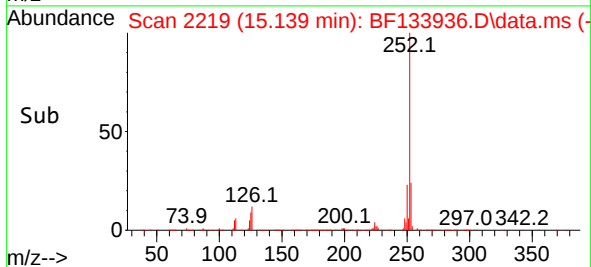
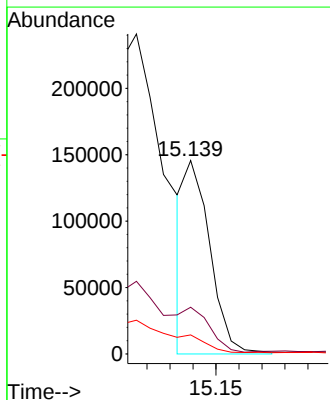
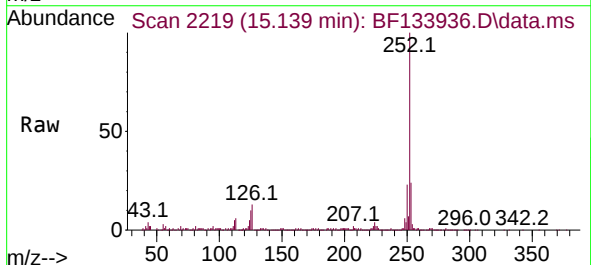
Reviewed By :Yogesh Patel 06/26/2023
Supervised By :mohammad ahmed 06/27/2023

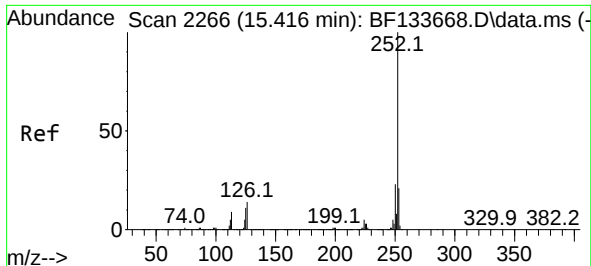
Supervised By :mohammad
ahmed
06/27/2023



#89
Benzo(k)fluoranthene
Concen: 9.159 ng m
RT: 15.139 min Scan# 2219
Delta R.T. -0.006 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26

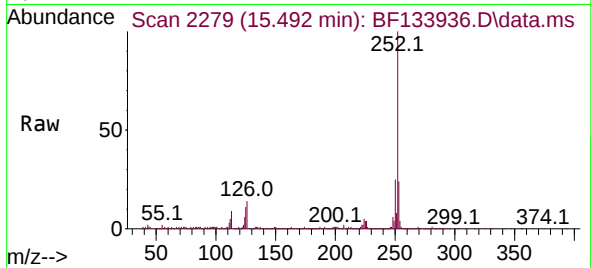
Tgt Ion:252 Resp: 111626
Ion Ratio Lower Upper
252 100
253 24.2 17.0 25.4
125 9.8 7.8 11.6





#90
Benzo(a)pyrene
Concen: 22.152 ng
RT: 15.492 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26

Instrument :
BNA_F
ClientSampleId :
COMPOSIT-SW02-0-8DL

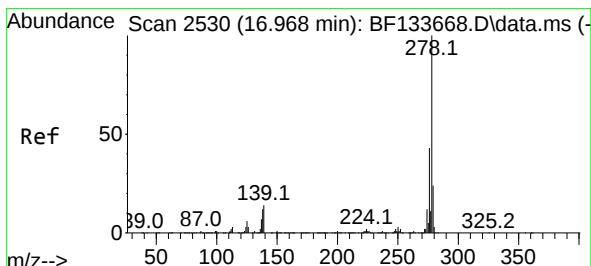
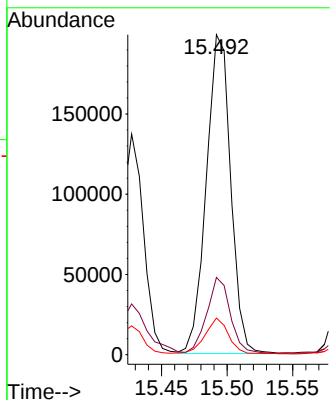
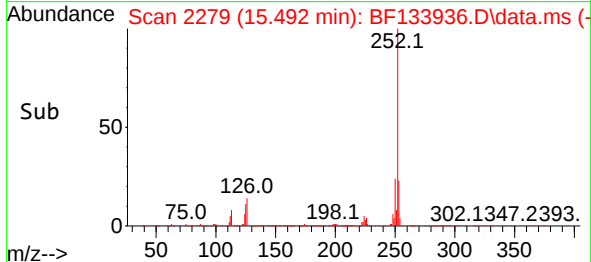


Tgt Ion:252 Resp: 25720
Ion Ratio Lower Upper
252 100
253 24.2 17.1 25.7
125 11.5 8.6 13.0

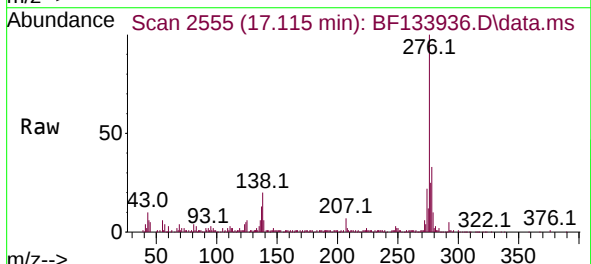
Manual Integrations
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Reviewed By :Yogesh Patel 06/26/2023
Supervised By :mohammad ahmed 06/27/2023

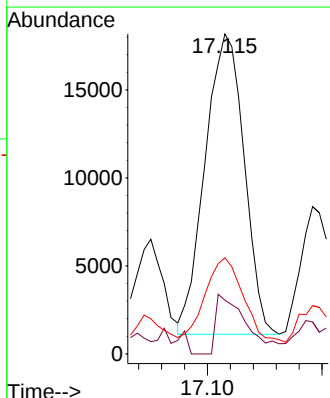
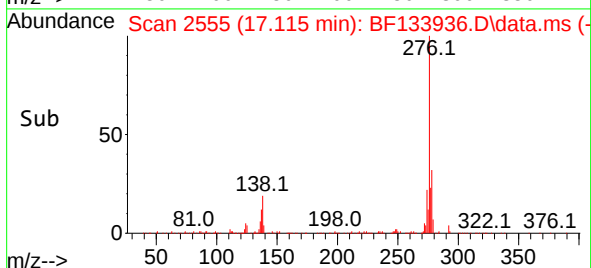
Supervised By :mohammad
ahmed
06/27/2023

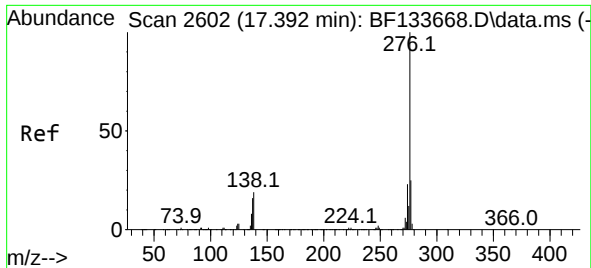


#91
Dibenzo(a,h)anthracene
Concen: 3.443 ng m
RT: 17.115 min Scan# 2555
Delta R.T. -0.023 min
Lab File: BF133936.D
Acq: 23 Jun 2023 11:26



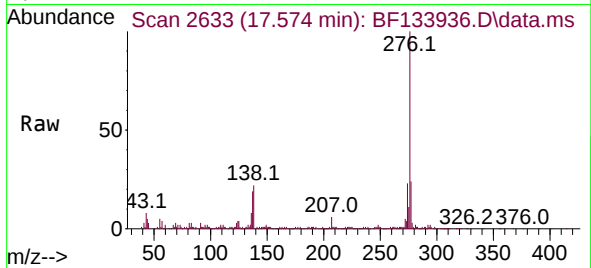
Tgt Ion:278 Resp: 40393
Ion Ratio Lower Upper
278 100
139 16.8 11.4 17.2
279 30.1 19.0 28.4#





#92
 Benzo(g,h,i)perylene
 Concen: 12.561 ng
 RT: 17.574 min Scan# 20
 Delta R.T. -0.018 min
 Lab File: BF133936.D
 Acq: 23 Jun 2023 11:26

Instrument :
 BNA_F
 ClientSampleId :
 COMPOSIT-SW02-0-8DL



Tgt Ion:276 Resp: 146094
 Ion Ratio Lower Upper
 276 100
 277 24.1 19.8 29.8
 138 21.8 15.0 22.4

Manual Integrations
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Reviewed By :Yogesh Patel 06/26/2023
 Supervised By :mohammad ahmed 06/27/2023

Supervised By :mohammad
 ahmed
 06/27/2023

