

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060623\
 Data File : BF133601.D
 Acq On : 06 Jun 2023 20:22
 Operator : CG\JU
 Sample : 03002-08
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB02

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/07/2023
 Supervised By :mohammad ahmed 06/08/2023

Quant Time: Jun 07 04:01:40 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 06 14:05:12 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.834	152	126230	20.000	ng	0.00
21) Naphthalene-d8	8.116	136	454889	20.000	ng	0.00
39) Acenaphthene-d10	9.875	164	188660	20.000	ng	0.00
64) Phenanthrene-d10	11.369	188	320674	20.000	ng	# 0.00
76) Chrysene-d12	14.022	240	138166	20.000	ng	0.01
86) Perylene-d12	15.498	264	134350	20.000	ng	# 0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.446	112	469511	62.058	ng	0.00
7) Phenol-d6	6.457	99	562124	60.357	ng	0.00
23) Nitrobenzene-d5	7.398	82	340683	50.005	ng	0.00
42) 2,4,6-Tribromophenol	10.663	330	114875	61.084	ng	0.00
45) 2-Fluorobiphenyl	9.192	172	633005	51.787	ng	0.00
79) Terphenyl-d14	12.957	244	485541	62.482	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.140	128	68507	3.106	ng	99
37) 2-Methylnaphthalene	8.834	142	34218	2.272	ng	100
38) 1-Methylnaphthalene	8.928	142	28934	2.061	ng	91
49) Acenaphthylene	9.734	152	165559	8.733	ng	99
52) Acenaphthene	9.910	154	104312	9.084	ng	99
55) Dibenzofuran	10.081	168	111838	6.546	ng	96
58) Fluorene	10.422	166	209493	16.737	ng	97
71) Phenanthrene	11.398	178	1630714	100.402	ng	99
72) Anthracene	11.445	178	553264	33.098	ng	99
73) Carbazole	11.592	167	136703	8.647	ng	99
75) Fluoranthene	12.592	202	2400591	133.809	ng	98
78) Pyrene	12.827	202	2224474	189.199	ng	99
81) Benzo(a)anthracene	14.010	228	1245613	135.331	ng	95
83) Chrysene	14.051	228	1179467	126.937	ng	95
87) Indeno(1,2,3-cd)pyrene	16.986	276	435096	50.841	ng	95
88) Benzo(b)fluoranthene	15.069	252	1001606m	114.489	ng	
89) Benzo(k)fluoranthene	15.092	252	335551m	39.336	ng	
90) Benzo(a)pyrene	15.445	252	1022413	128.434	ng	96
91) Dibenzo(a,h)anthracene	16.992	278	153386	22.106	ng	# 66
92) Benzo(g,h,i)perylene	17.439	276	686370	98.104	ng	96

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

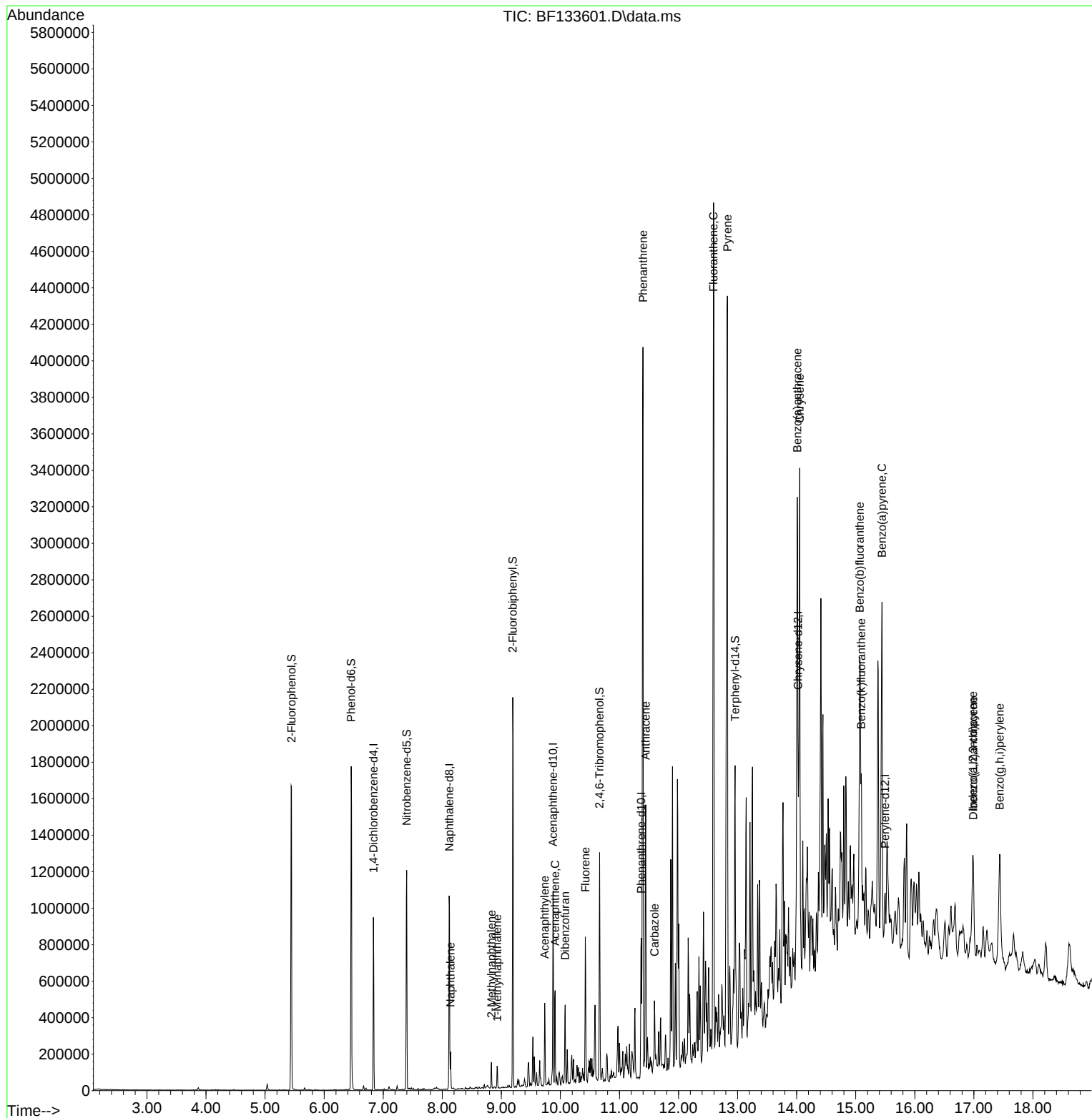
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060623\
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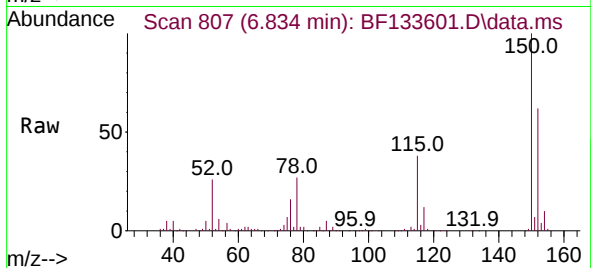
Reviewed By :Yogesh Patel 06/07/2023
Supervised By :mohammad ahmed 06/08/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 808
Delta R.T. -0.000 min
Lab File: BF133601.D
Acq: 06 Jun 2023 20:22

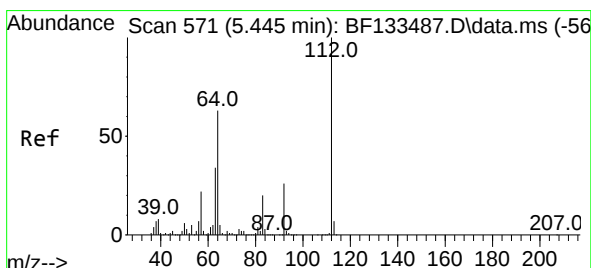
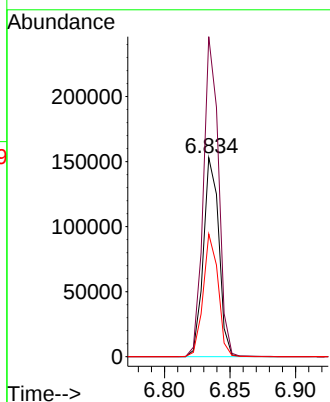
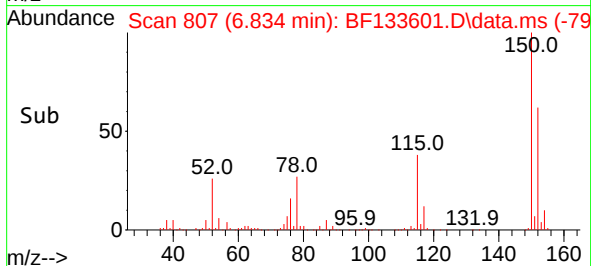
Instrument :
BNA_F
ClientSampleId :
SB02



Tgt Ion:152 Resp: 126230
Ion Ratio Lower Upper
152 100
150 160.7 124.9 187.3
115 61.6 48.1 72.1

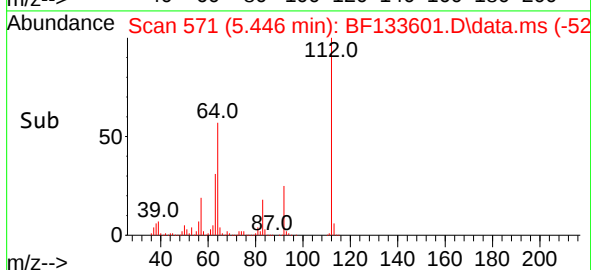
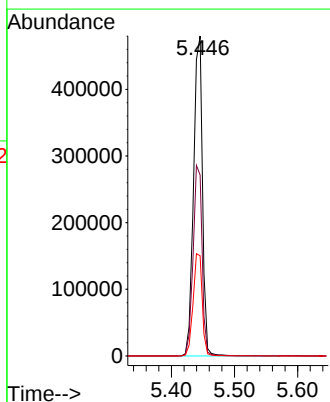
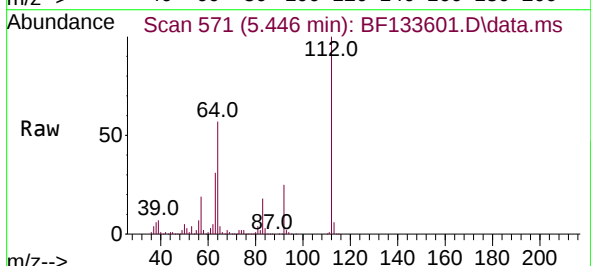
Manual Integrations
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Supervised By :mohammad ahmed 06/08/2023



#5
2-Fluorophenol
Concen: 62.058 ng
RT: 5.446 min Scan# 571
Delta R.T. 0.000 min
Lab File: BF133601.D
Acq: 06 Jun 2023 20:22

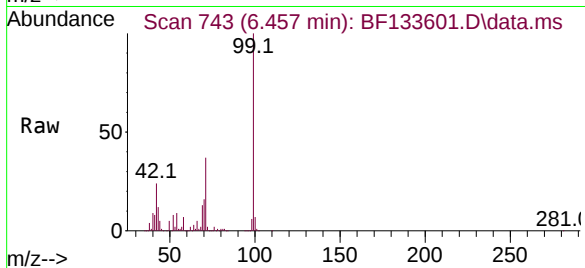
Tgt Ion:112 Resp: 469511
Ion Ratio Lower Upper
112 100
64 56.5 50.1 75.1
63 31.3 27.5 41.3





#7
Phenol-d6
Concen: 60.357 ng
RT: 6.457 min Scan# 744
Delta R.T. -0.006 min
Lab File: BF133601.D
Acq: 06 Jun 2023 20:22

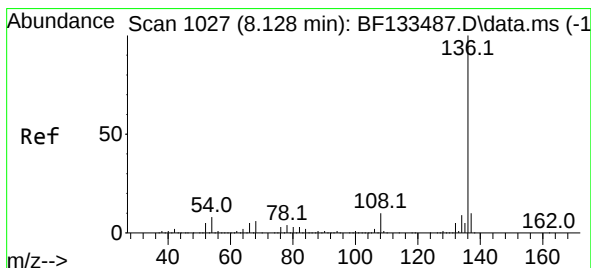
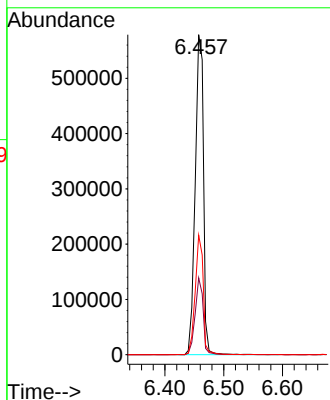
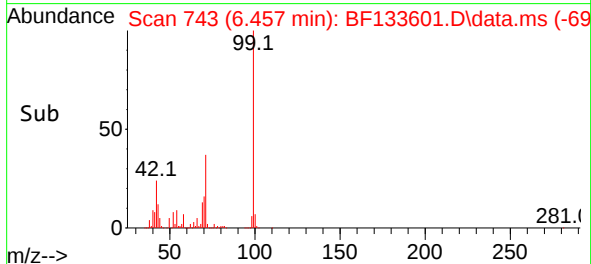
Instrument :
BNA_F
ClientSampleId :
SB02



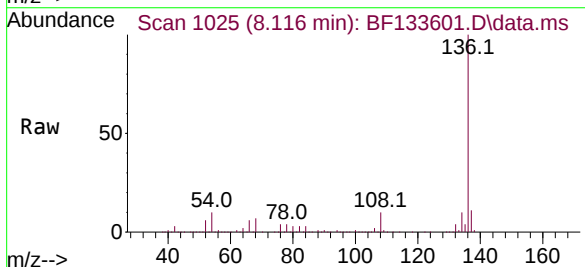
Tgt Ion: 99 Resp: 562124
Ion Ratio Lower Upper
99 100
42 24.0 19.7 29.5
71 37.4 29.8 44.8

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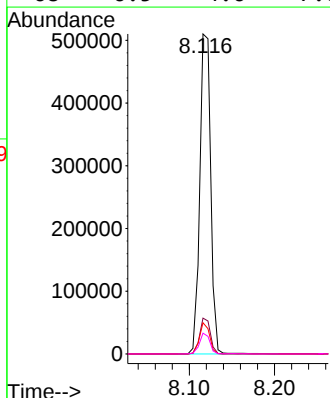
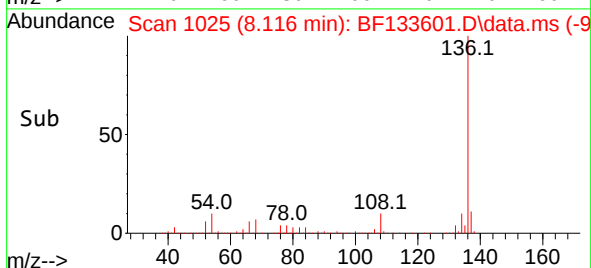
Reviewed By :Yogesh Patel 06/07/2023
Supervised By :mohammad ahmed 06/08/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BF133601.D
Acq: 06 Jun 2023 20:22



Tgt Ion:136 Resp: 454889
Ion Ratio Lower Upper
136 100
137 11.2 8.2 12.4
54 9.8 6.6 10.0
68 6.5 4.6 7.0





#23

Nitrobenzene-d5

Concen: 50.005 ng

RT: 7.398 min Scan# 905

Delta R.T. -0.006 min

Lab File: BF133601.D

Acq: 06 Jun 2023 20:22

Instrument :

BNA_F

ClientSampleId :

SB02

Tgt Ion: 82 Resp: 34068

Ion Ratio Lower Upper

82 100

128 45.3 34.2 51.4

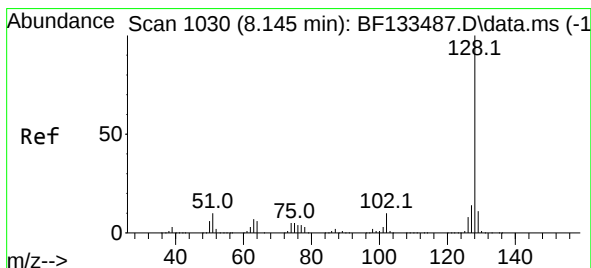
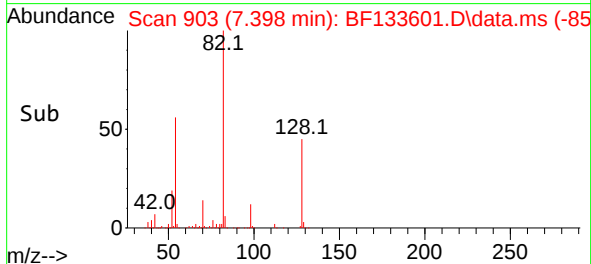
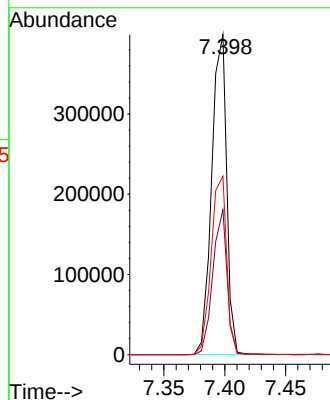
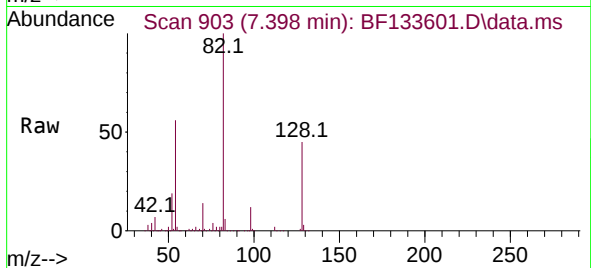
54 55.8 48.2 72.4

Manual Integrations

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#31

Naphthalene

Concen: 3.106 ng

RT: 8.140 min Scan# 1029

Delta R.T. -0.006 min

Lab File: BF133601.D

Acq: 06 Jun 2023 20:22

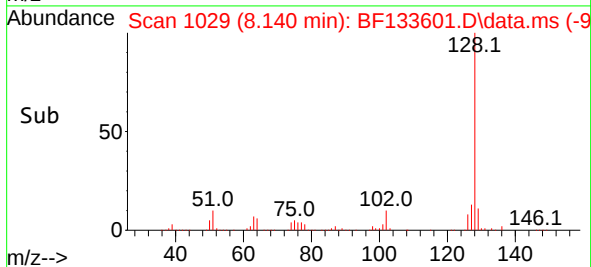
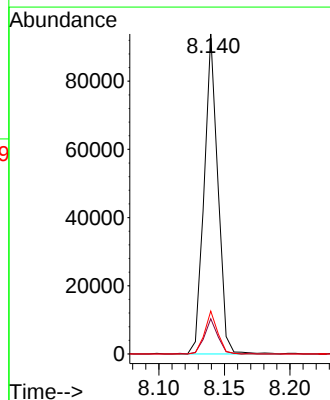
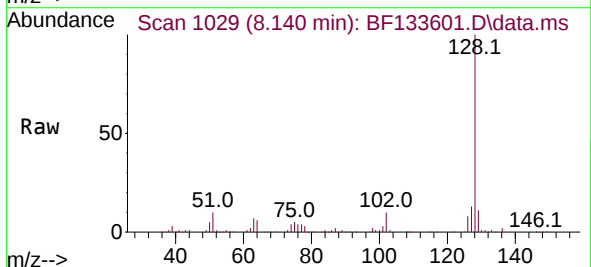
Tgt Ion:128 Resp: 68507

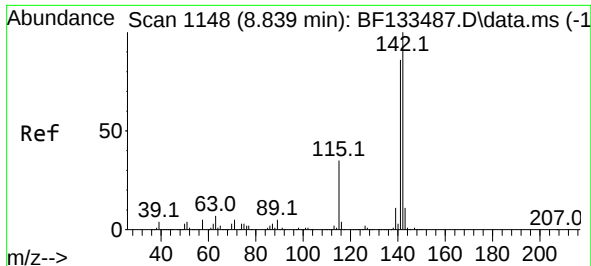
Ion Ratio Lower Upper

128 100

129 11.0 9.2 13.8

127 13.4 10.9 16.3





#37

2-Methylnaphthalene

Concen: 2.272 ng

RT: 8.834 min Scan# 1148

Delta R.T. 0.000 min

Lab File: BF133601.D

Acq: 06 Jun 2023 20:22

Instrument :

BNA_F

ClientSampleId :

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Tgt Ion:142 Resp: 34218

Ion Ratio Lower Upper

142 100

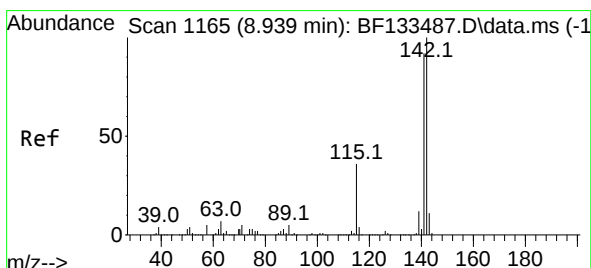
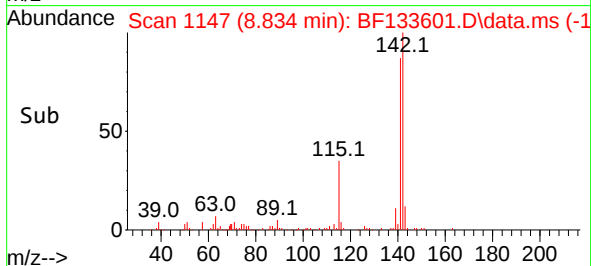
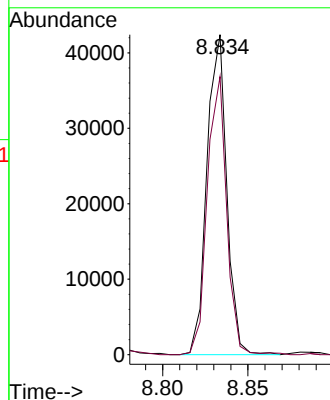
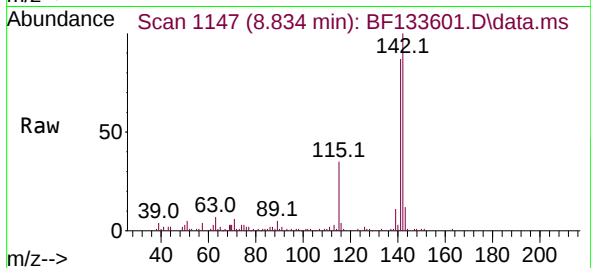
141 86.9 69.2 103.8

Manual Integrations

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Supervised By :mohammad ahmed 06/08/2023



#38

1-Methylnaphthalene

Concen: 2.061 ng

RT: 8.928 min Scan# 1163

Delta R.T. -0.006 min

Lab File: BF133601.D

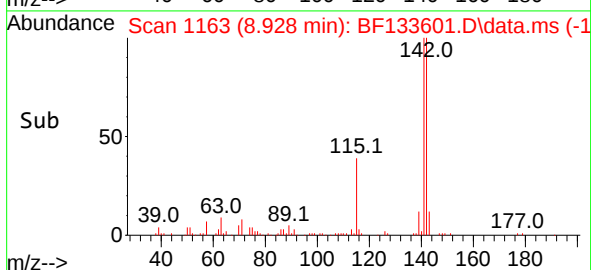
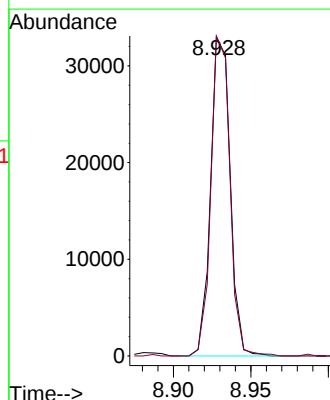
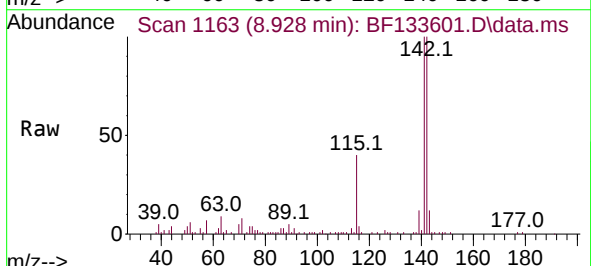
Acq: 06 Jun 2023 20:22

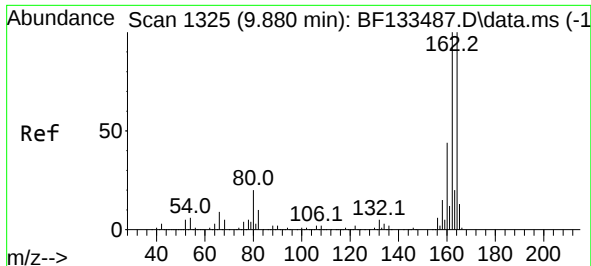
Tgt Ion:142 Resp: 28934

Ion Ratio Lower Upper

142 100

141 100.3 73.6 110.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.875 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF133601.D

Acq: 06 Jun 2023 20:22

Instrument :

BNA_F

ClientSampleId :

SB02

Tgt Ion:164 Resp: 188660

Ion Ratio Lower Upper

164 100

162 103.0 79.7 119.5

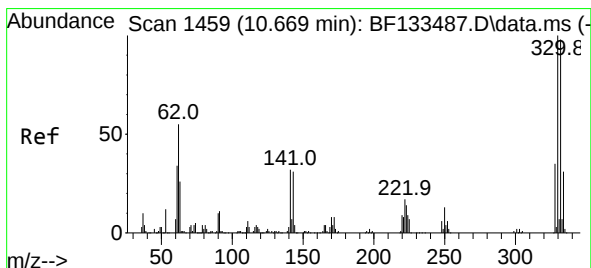
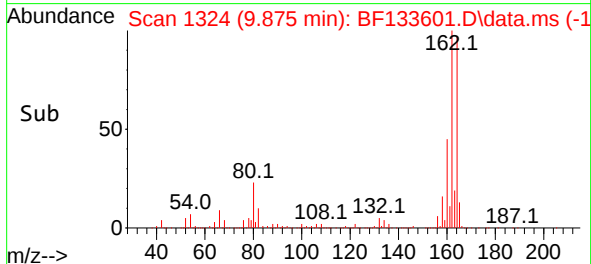
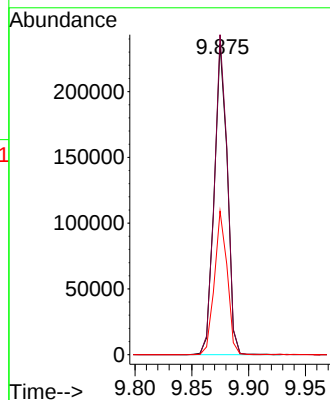
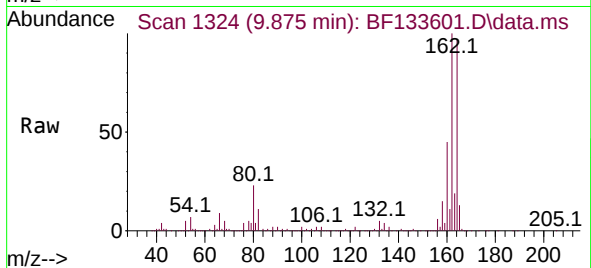
160 46.2 35.4 53.0

Manual Integrations

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Reviewed By :Yogesh Patel 06/07/2023

Supervised By :mohammad ahmed 06/08/2023



#42

2,4,6-Tribromophenol

Concen: 61.084 ng

RT: 10.663 min Scan# 1458

Delta R.T. -0.006 min

Lab File: BF133601.D

Acq: 06 Jun 2023 20:22

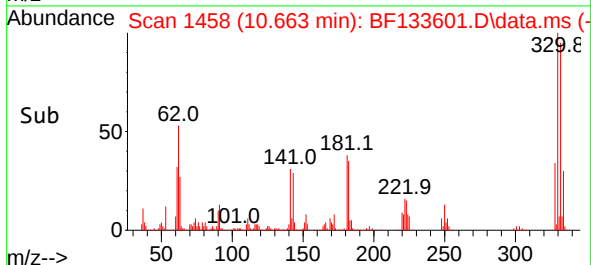
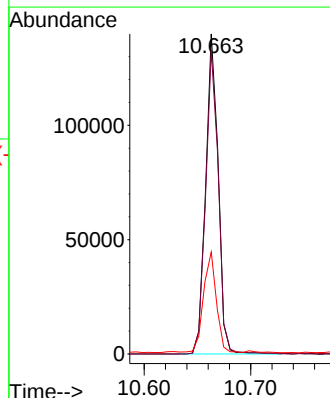
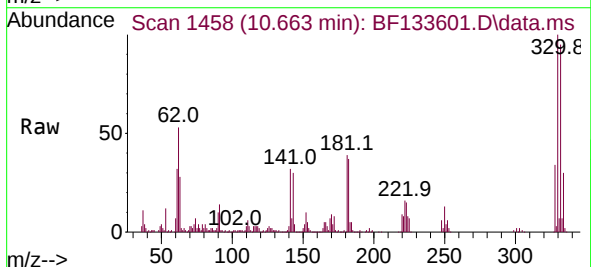
Tgt Ion:330 Resp: 114875

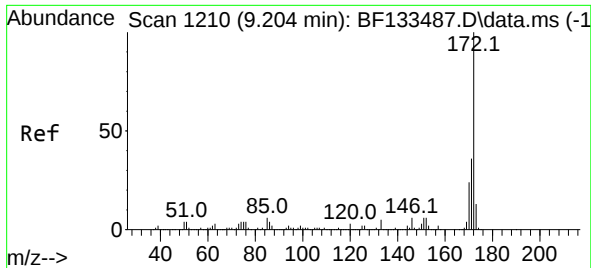
Ion Ratio Lower Upper

330 100

332 96.4 77.8 116.6

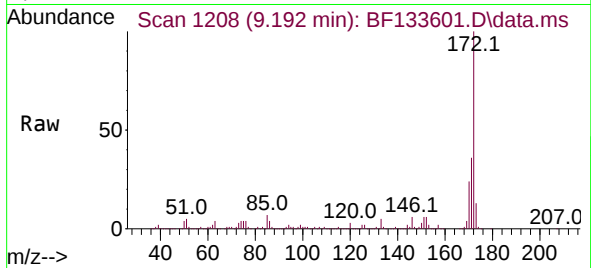
141 32.0 26.6 40.0





#45
2-Fluorobiphenyl
Concen: 51.787 ng
RT: 9.192 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133601.D
Acq: 06 Jun 2023 20:22

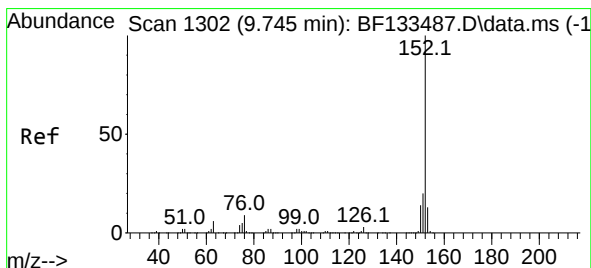
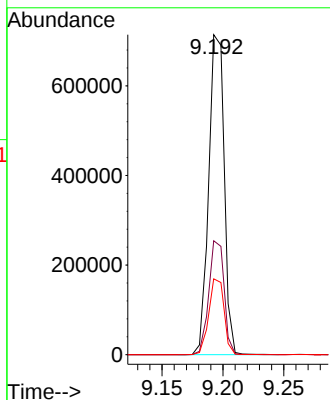
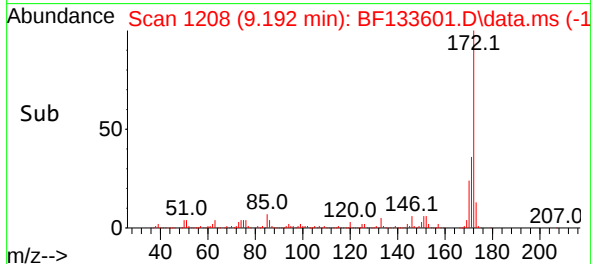
Instrument :
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Tgt Ion:172 Resp: 63300
Ion Ratio Lower Upper
172 100
171 35.6 28.4 42.6
170 23.7 19.3 28.9

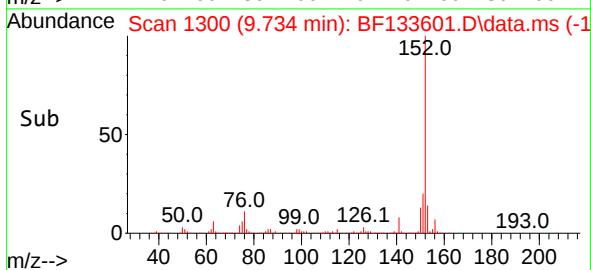
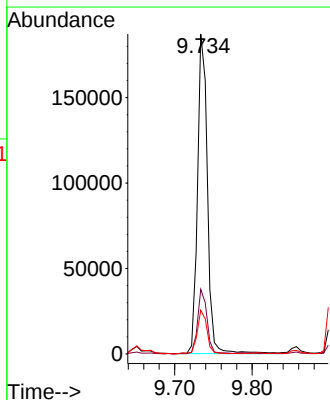
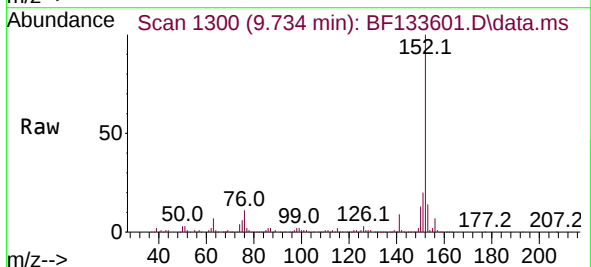
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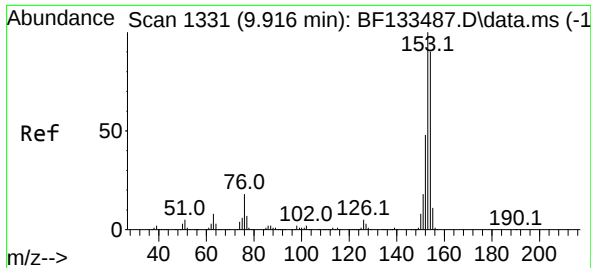
Reviewed By :Yogesh Patel 06/07/2023
Supervised By :mohammad ahmed 06/08/2023



#49
Acenaphthylene
Concen: 8.733 ng
RT: 9.734 min Scan# 1300
Delta R.T. -0.006 min
Lab File: BF133601.D
Acq: 06 Jun 2023 20:22

Tgt Ion:152 Resp: 165559
Ion Ratio Lower Upper
152 100
151 20.2 16.0 24.0
153 13.7 10.4 15.6





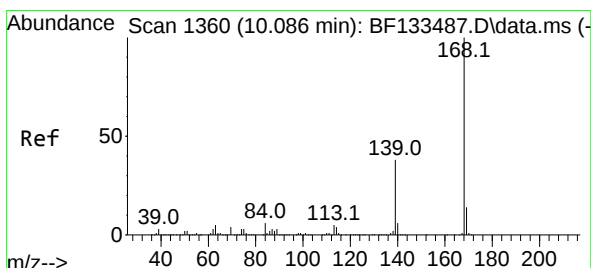
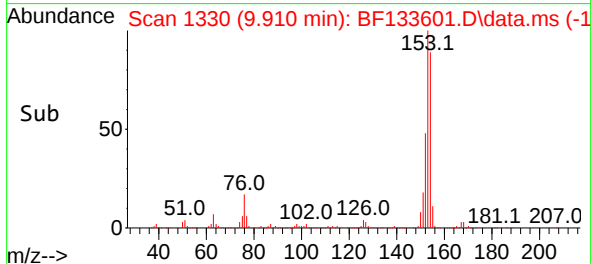
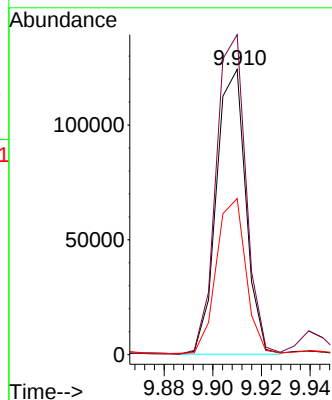
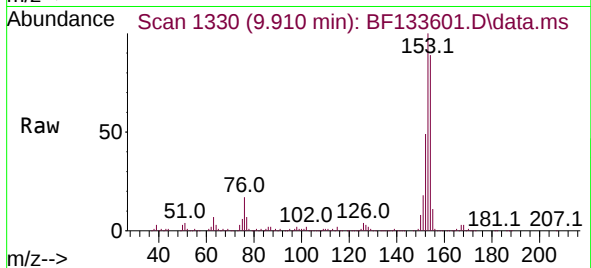
#52
Acenaphthene
Concen: 9.084 ng
RT: 9.910 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF133601.D
Acq: 06 Jun 2023 20:22

Instrument :
BNA_F
ClientSampleId :
SB02

Tgt Ion:154 Resp: 10431
Ion Ratio Lower Upper
154 100
153 112.2 89.2 133.8
152 54.7 43.1 64.7

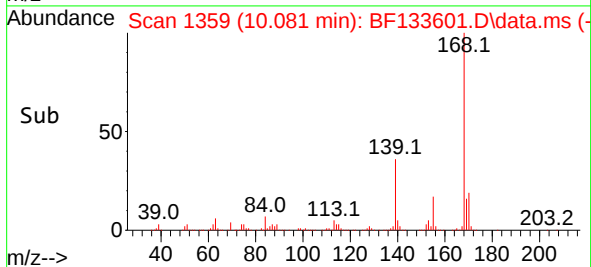
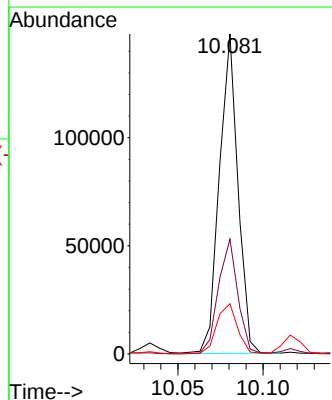
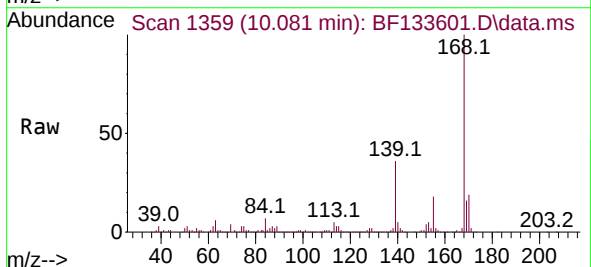
Manual Integrations
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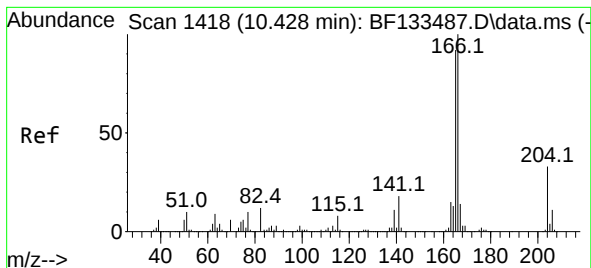
Reviewed By :Yogesh Patel 06/07/2023
Supervised By :mohammad ahmed 06/08/2023



#55
Dibenzofuran
Concen: 6.546 ng
RT: 10.081 min Scan# 1359
Delta R.T. -0.006 min
Lab File: BF133601.D
Acq: 06 Jun 2023 20:22

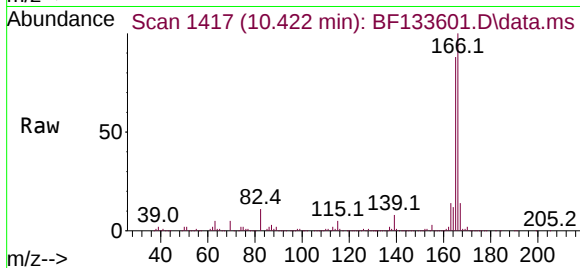
Tgt Ion:168 Resp: 111838
Ion Ratio Lower Upper
168 100
139 35.9 30.6 46.0
169 15.7 10.9 16.3





#58
Fluorene
Concen: 16.737 ng
RT: 10.422 min Scan# 1418
Delta R.T. -0.006 min
Lab File: BF133601.D
Acq: 06 Jun 2023 20:22

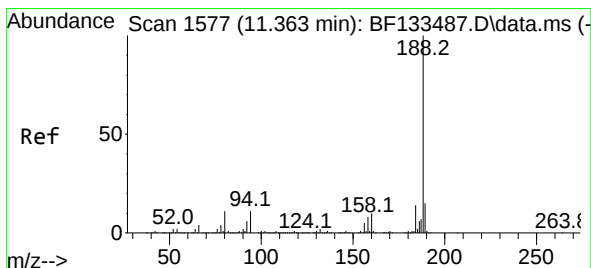
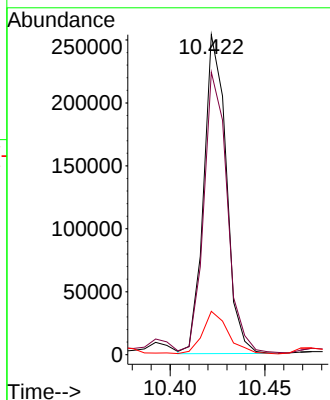
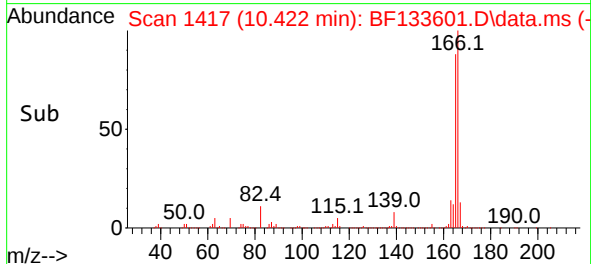
Instrument :
BNA_F
ClientSampleId :
SB02



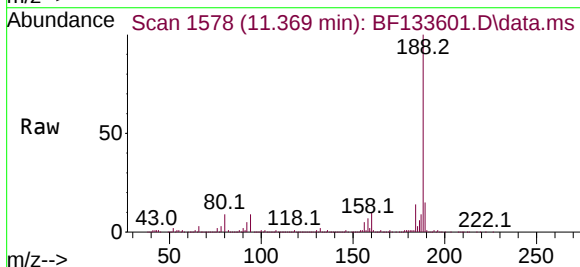
Tgt Ion:166 Resp: 20949
Ion Ratio Lower Upper
166 100
165 88.3 73.4 110.0
167 13.5 10.9 16.3

Manual Integrations
APPROVED

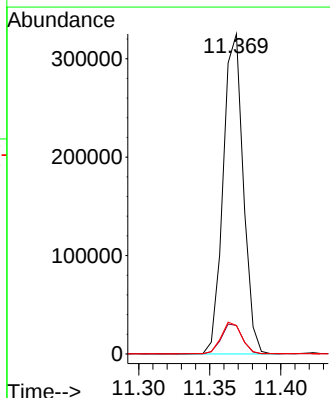
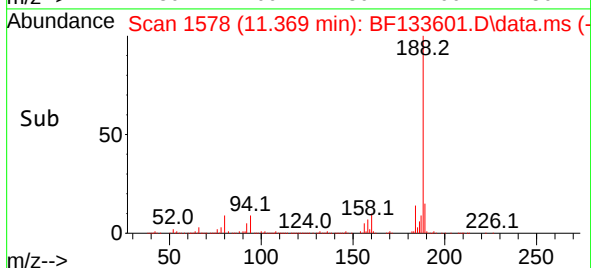
Reviewed By :Yogesh Patel 06/07/2023
Supervised By :mohammad ahmed 06/08/2023

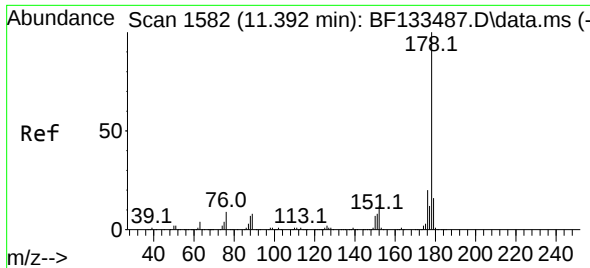


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1578
Delta R.T. 0.006 min
Lab File: BF133601.D
Acq: 06 Jun 2023 20:22



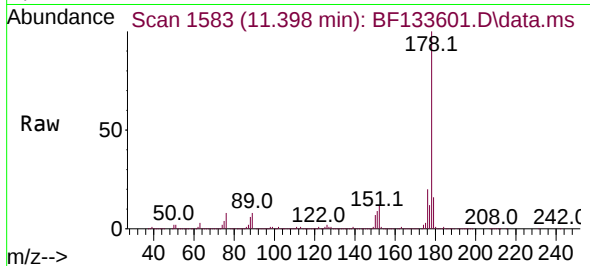
Tgt Ion:188 Resp: 320674
Ion Ratio Lower Upper
188 100
94 8.9 8.6 12.8
80 8.9 9.2 13.8#





#71
Phenanthrene
Concen: 100.402 ng
RT: 11.398 min Scan# 1582
Delta R.T. 0.006 min
Lab File: BF133601.D
Acq: 06 Jun 2023 20:22

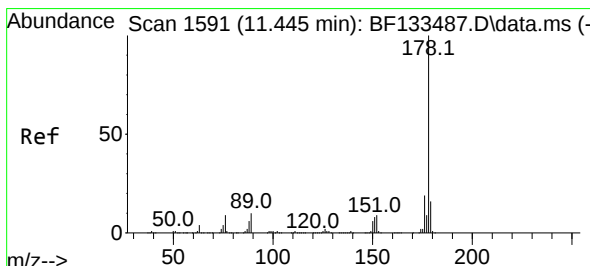
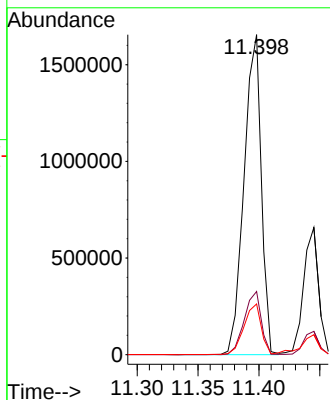
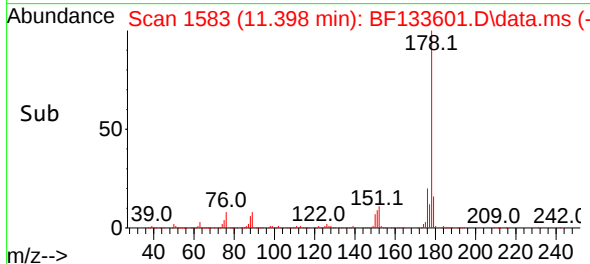
Instrument :
BNA_F
ClientSampleId :
SB02



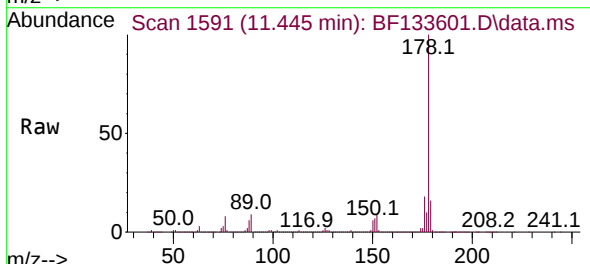
Tgt Ion:178 Resp: 1630714
Ion Ratio Lower Upper
178 100
176 19.7 15.6 23.4
179 15.9 12.4 18.6

Manual Integrations
APPROVED

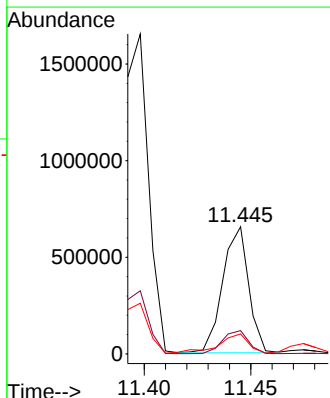
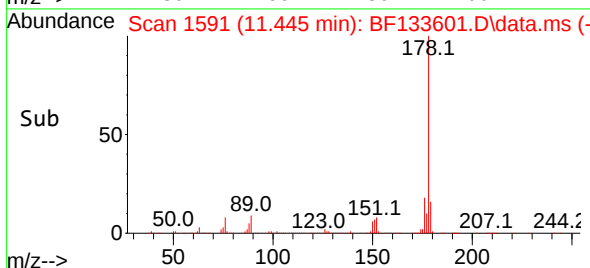
Reviewed By :Yogesh Patel 06/07/2023
Supervised By :mohammad ahmed 06/08/2023

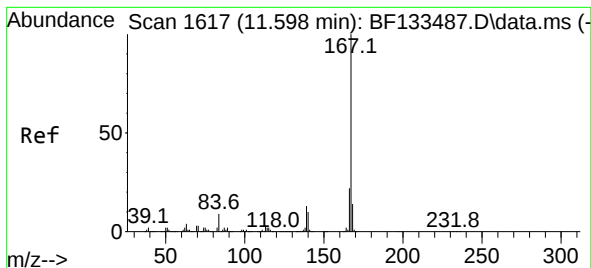


#72
Anthracene
Concen: 33.098 ng
RT: 11.445 min Scan# 1591
Delta R.T. 0.006 min
Lab File: BF133601.D
Acq: 06 Jun 2023 20:22



Tgt Ion:178 Resp: 553264
Ion Ratio Lower Upper
178 100
176 18.3 15.3 22.9
179 15.7 12.6 18.8





#73

Carbazole

Concen: 8.647 ng

RT: 11.592 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF133601.D

Acq: 06 Jun 2023 20:22

Instrument :

BNA_F

ClientSampleId :

SB02

Tgt Ion:167 Resp: 13670

Ion Ratio Lower Upper

167 100

166 21.6 17.3 25.9

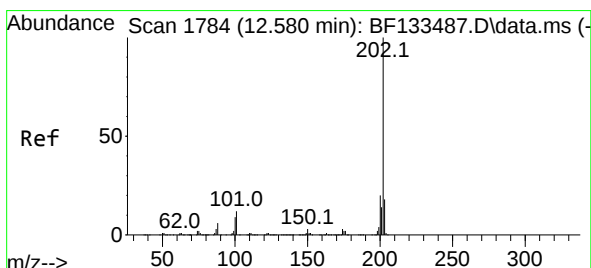
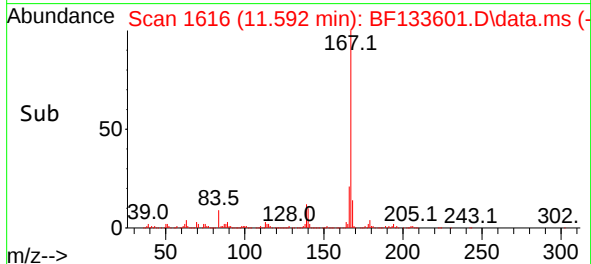
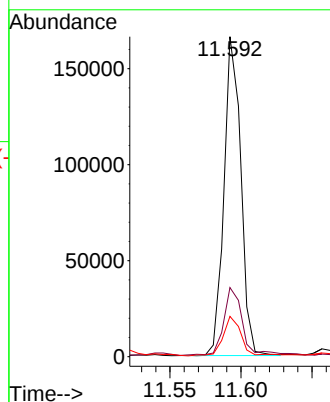
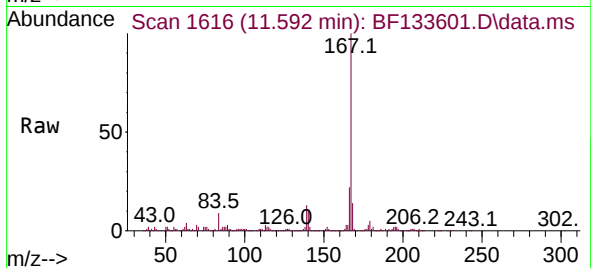
139 12.6 10.7 16.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/07/2023

Supervised By :mohammad ahmed 06/08/2023



#75

Fluoranthene

Concen: 133.809 ng

RT: 12.592 min Scan# 1786

Delta R.T. 0.012 min

Lab File: BF133601.D

Acq: 06 Jun 2023 20:22

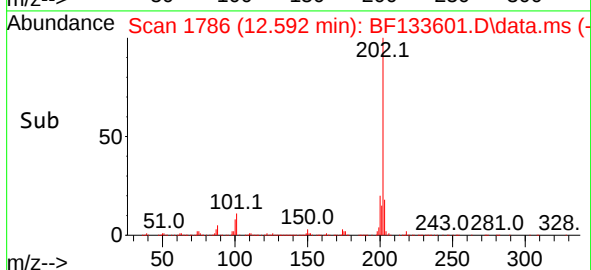
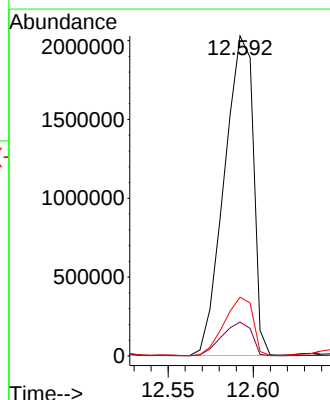
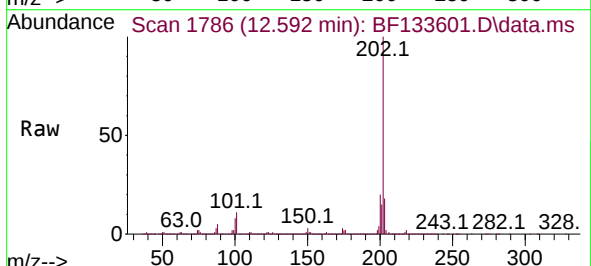
Tgt Ion:202 Resp: 2400591

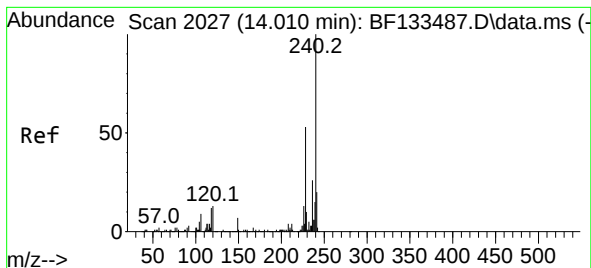
Ion Ratio Lower Upper

202 100

101 10.6 0.0 32.2

203 18.4 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.022 min Scan# 2027

Delta R.T. 0.012 min

Lab File: BF133601.D

Acq: 06 Jun 2023 20:22

Instrument :

BNA_F

ClientSampleId :

SB02

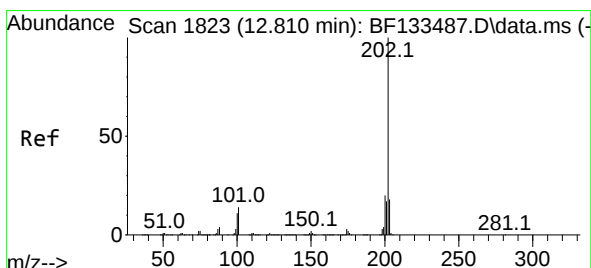
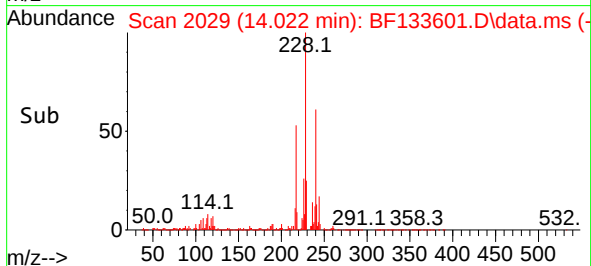
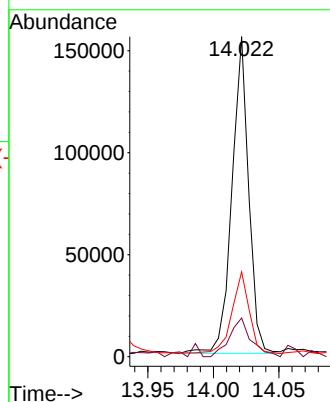
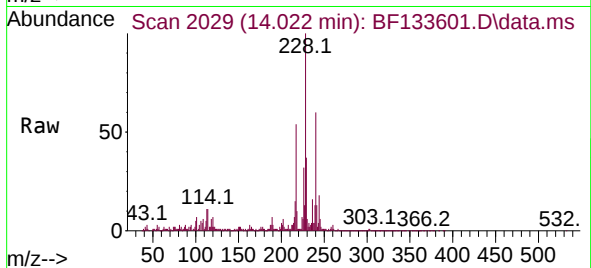
Tgt Ion:240 Resp: 138160
 Ion Ratio Lower Upper
 240 100
 120 12.1 10.3 15.5
 236 26.5 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/07/2023

Supervised By :mohammad ahmed 06/08/2023



#78

Pyrene

Concen: 189.199 ng

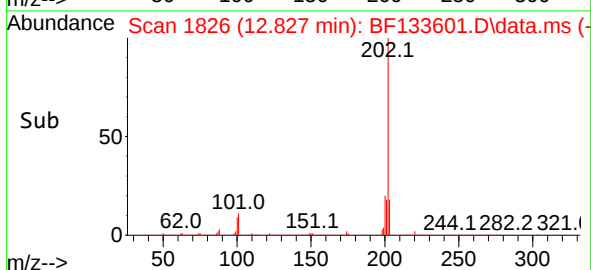
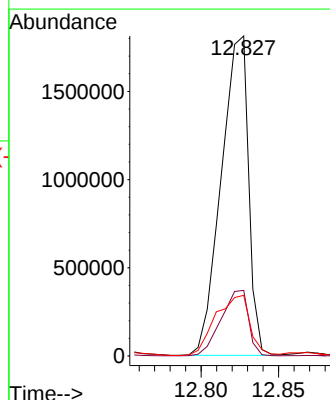
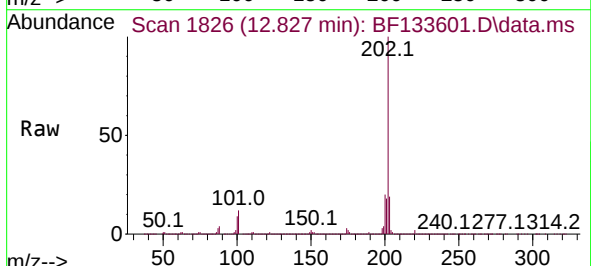
RT: 12.827 min Scan# 1826

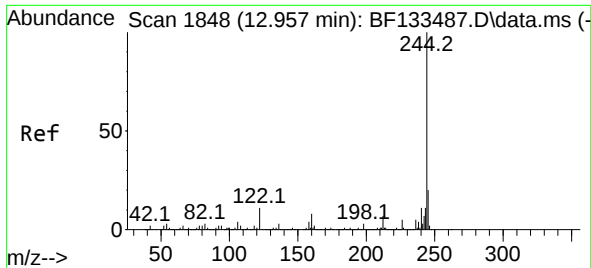
Delta R.T. 0.018 min

Lab File: BF133601.D

Acq: 06 Jun 2023 20:22

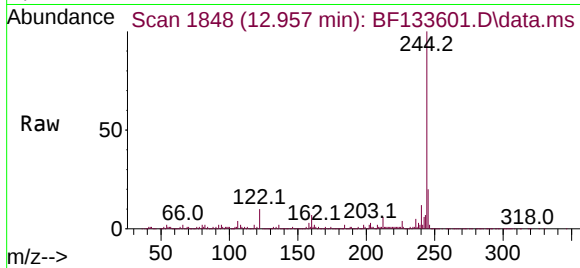
Tgt Ion:202 Resp: 2224474
 Ion Ratio Lower Upper
 202 100
 200 20.5 16.3 24.5
 203 19.0 14.3 21.5





#79
 Terphenyl-d14
 Concen: 62.482 ng
 RT: 12.957 min Scan# 1848
 Delta R.T. 0.000 min
 Lab File: BF133601.D
 Acq: 06 Jun 2023 20:22

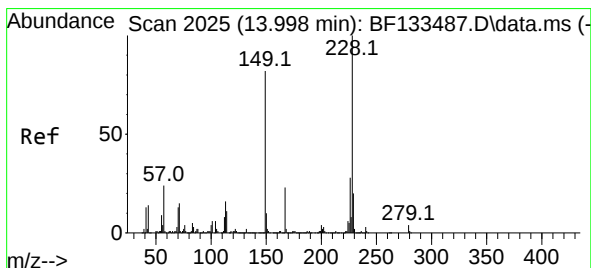
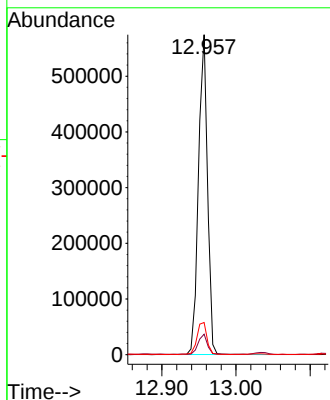
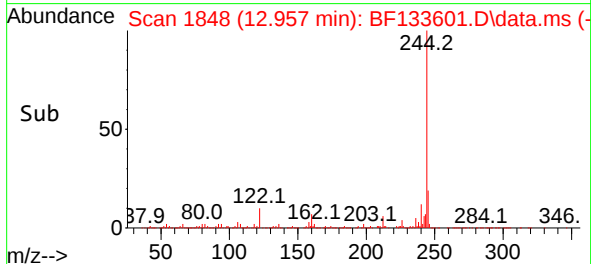
Instrument :
 BNA_F
 ClientSampleId :
 SB02



Tgt Ion:244 Resp: 48554
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.8 8.6
 122 10.1 8.5 12.7

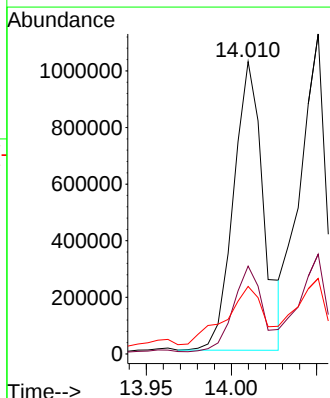
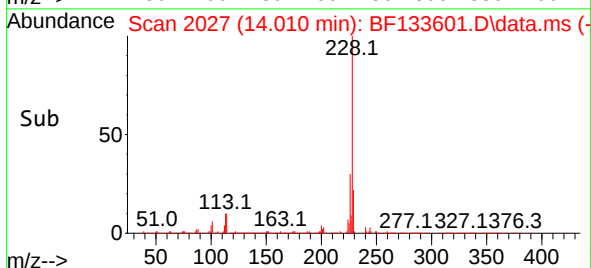
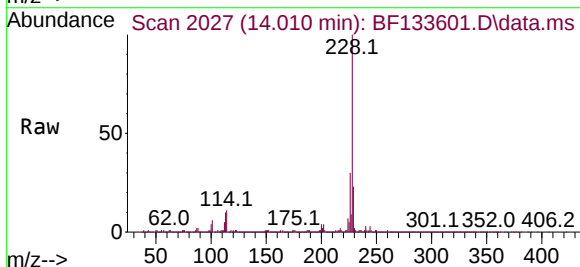
Manual Integrations
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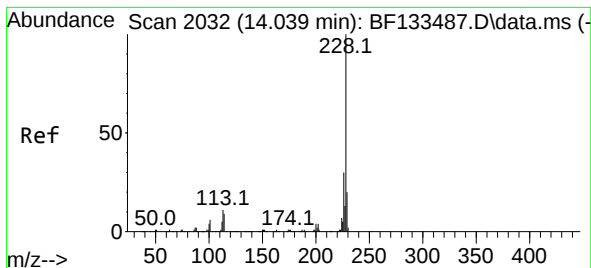
Reviewed By :Yogesh Patel 06/07/2023
 Supervised By :mohammad ahmed 06/08/2023



#81
 Benzo(a)anthracene
 Concen: 135.331 ng
 RT: 14.010 min Scan# 2027
 Delta R.T. 0.012 min
 Lab File: BF133601.D
 Acq: 06 Jun 2023 20:22

Tgt Ion:228 Resp: 1245613
 Ion Ratio Lower Upper
 228 100
 226 30.1 22.3 33.5
 229 23.1 16.1 24.1





#83

Chrysene

Concen: 126.937 ng

RT: 14.051 min Scan# 2032

Delta R.T. 0.012 min

Lab File: BF133601.D

Acq: 06 Jun 2023 20:22

Instrument :

BNA_F

ClientSampleId :

SB02

Tgt Ion:228 Resp: 117946

Ion Ratio Lower Upper

228 100

226 31.2 24.1 36.1

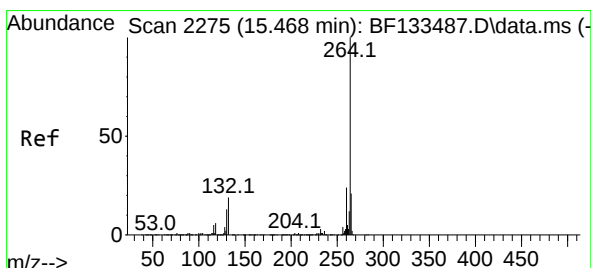
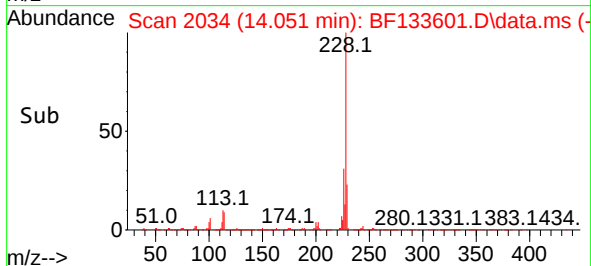
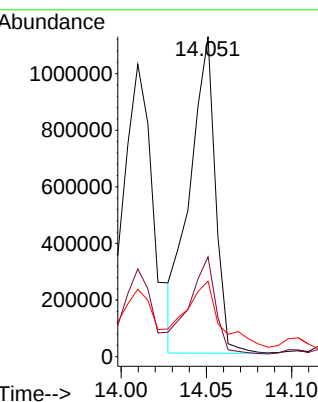
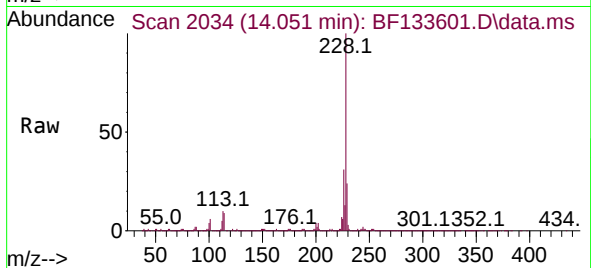
229 23.6 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/07/2023

Supervised By :mohammad ahmed 06/08/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.498 min Scan# 2280

Delta R.T. 0.030 min

Lab File: BF133601.D

Acq: 06 Jun 2023 20:22

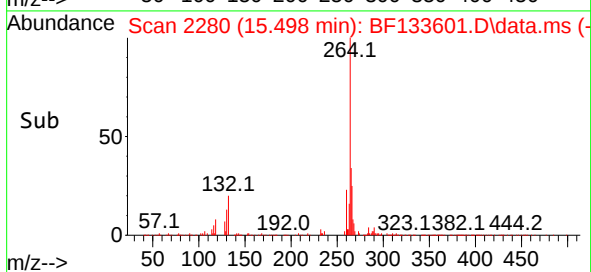
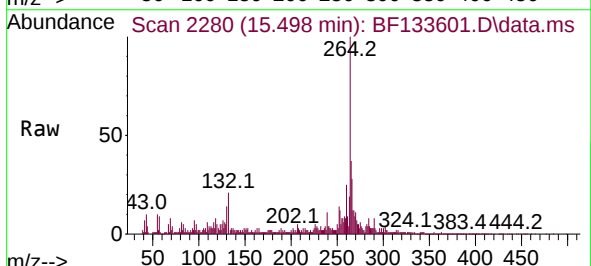
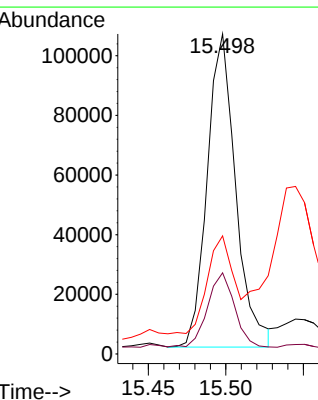
Tgt Ion:264 Resp: 134350

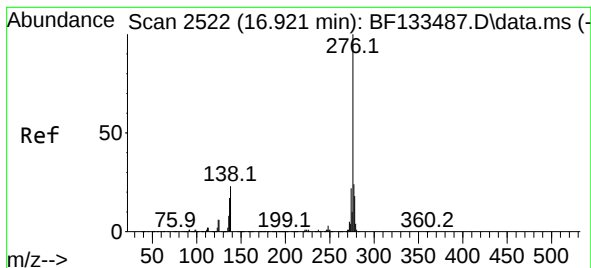
Ion Ratio Lower Upper

264 100

260 25.3 19.0 28.4

265 36.9 16.8 25.2#





#87

Indeno(1,2,3-cd)pyrene

Concen: 50.841 ng

RT: 16.986 min Scan# 21

Delta R.T. 0.053 min

Lab File: BF133601.D

Acq: 06 Jun 2023 20:22

Instrument :

BNA_F

ClientSampleId :

SB02

Tgt Ion:276 Resp: 435090

Ion Ratio Lower Upper

276 100

138 23.1 21.4 32.2

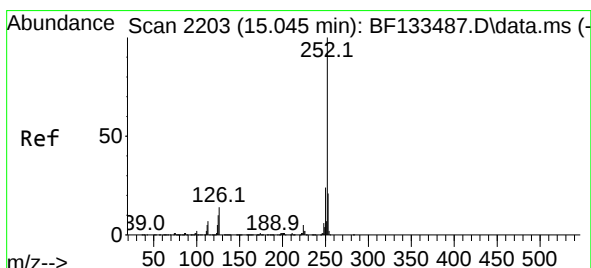
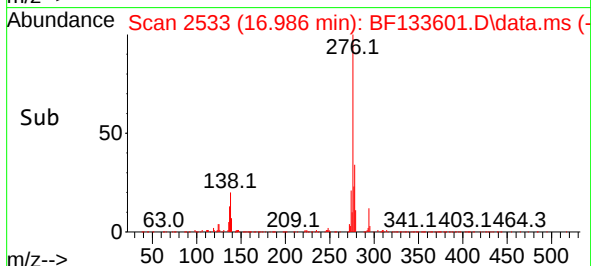
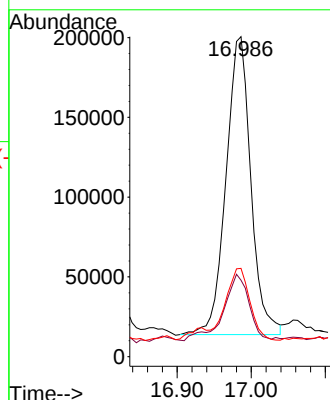
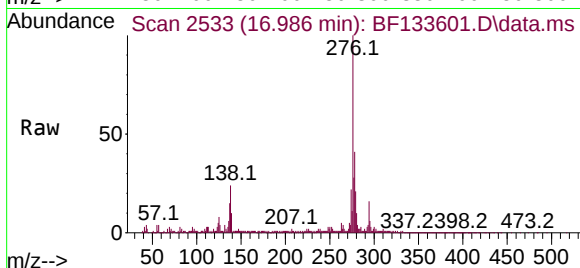
277 23.7 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/07/2023

Supervised By :mohammad ahmed 06/08/2023



#88

Benzo(b)fluoranthene

Concen: 114.489 ng m

RT: 15.069 min Scan# 2207

Delta R.T. 0.024 min

Lab File: BF133601.D

Acq: 06 Jun 2023 20:22

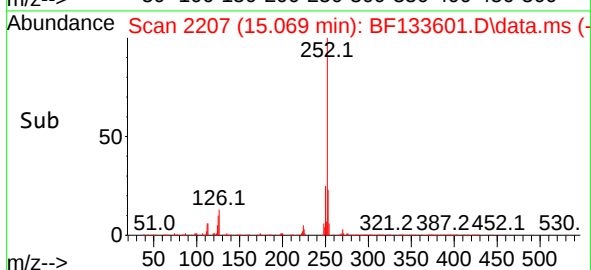
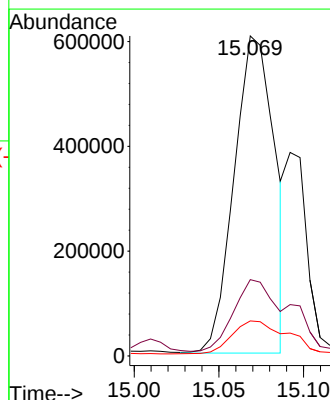
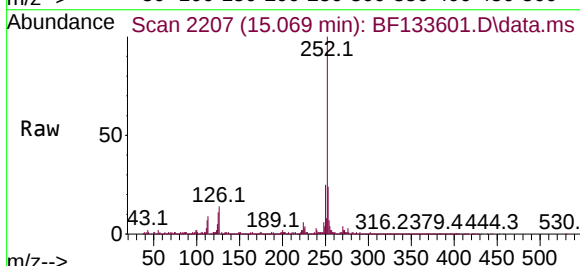
Tgt Ion:252 Resp: 1001606

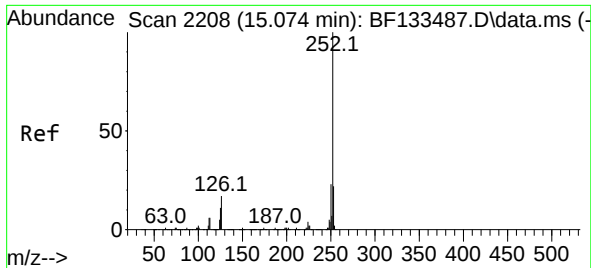
Ion Ratio Lower Upper

252 100

253 23.9 17.2 25.8

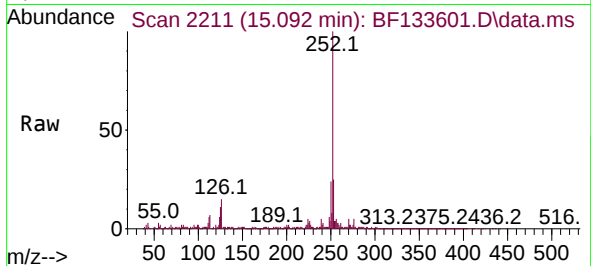
125 11.0 8.1 12.1





#89
Benzo(k)fluoranthene
Concen: 39.336 ng m
RT: 15.092 min Scan# 21
Delta R.T. 0.018 min
Lab File: BF133601.D
Acq: 06 Jun 2023 20:22

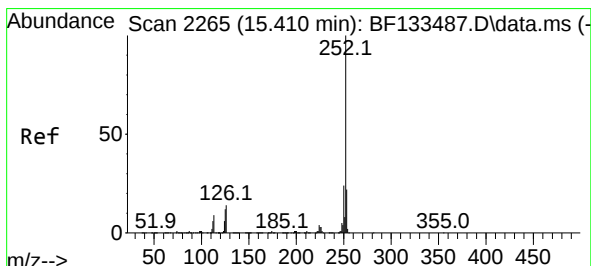
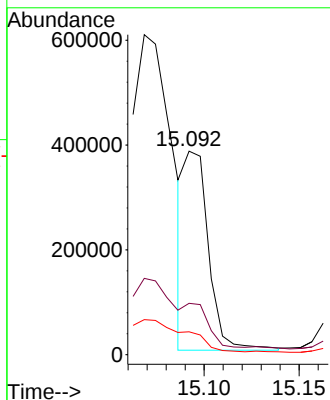
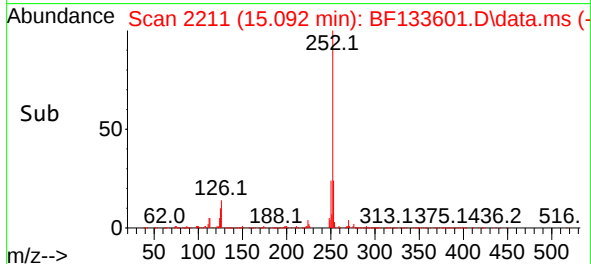
Instrument :
BNA_F
ClientSampleId :
SB02



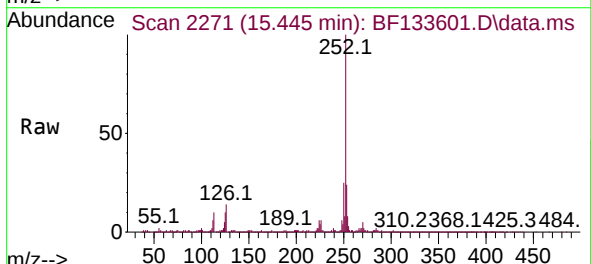
Tgt Ion:252 Resp: 33555
Ion Ratio Lower Upper
252 100
253 25.2 17.4 26.2
125 11.3 8.3 12.5

Manual Integrations
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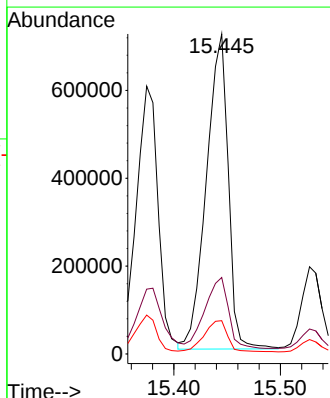
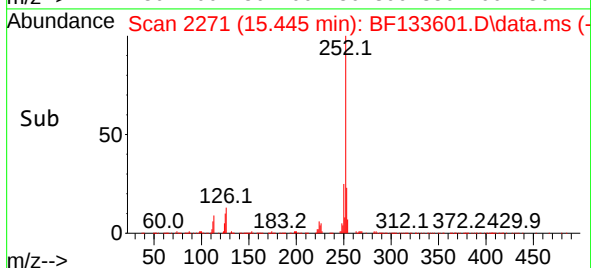
Reviewed By :Yogesh Patel 06/07/2023
Supervised By :mohammad ahmed 06/08/2023

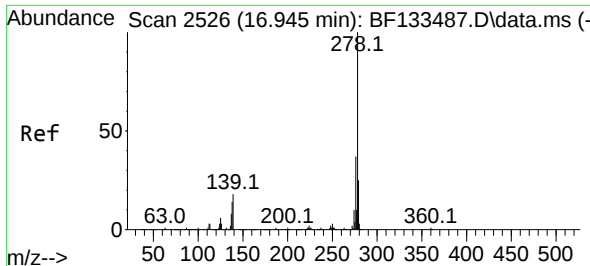


#90
Benzo(a)pyrene
Concen: 128.434 ng
RT: 15.445 min Scan# 2271
Delta R.T. 0.036 min
Lab File: BF133601.D
Acq: 06 Jun 2023 20:22



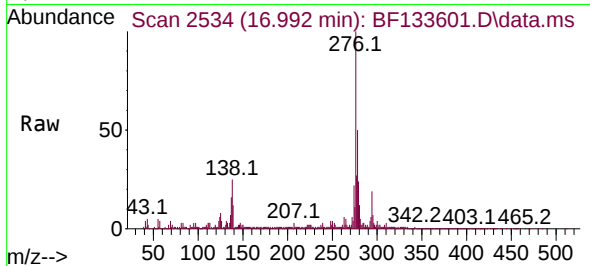
Tgt Ion:252 Resp: 1022413
Ion Ratio Lower Upper
252 100
253 23.9 17.4 26.0
125 10.4 9.4 14.0





#91
Dibenzo(a,h)anthracene
Concen: 22.106 ng
RT: 16.992 min Scan# 21
Delta R.T. 0.041 min
Lab File: BF133601.D
Acq: 06 Jun 2023 20:22

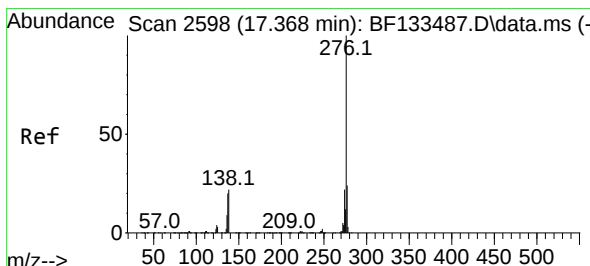
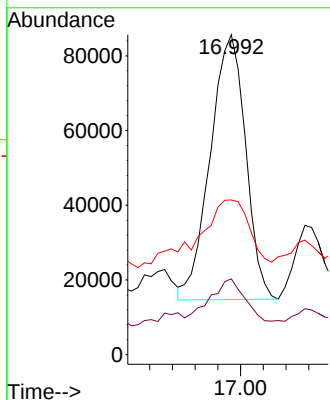
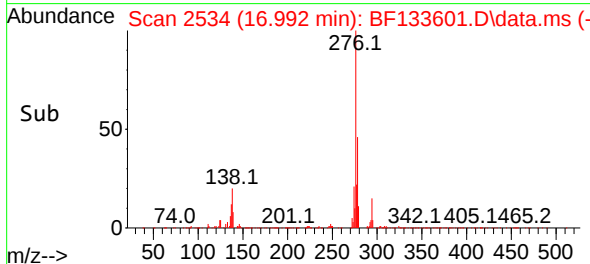
Instrument :
BNA_F
ClientSampleId :
SB02



Tgt Ion:278 Resp: 153380
Ion Ratio Lower Upper
278 100
139 23.7 14.1 21.1
279 48.4 19.7 29.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/07/2023
Supervised By :mohammad ahmed 06/08/2023



#92
Benzo(g,h,i)perylene
Concen: 98.104 ng
RT: 17.439 min Scan# 2610
Delta R.T. 0.065 min
Lab File: BF133601.D
Acq: 06 Jun 2023 20:22

Tgt Ion:276 Resp: 686370
Ion Ratio Lower Upper
276 100
277 26.3 18.8 28.2
138 23.5 17.8 26.6

