

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061923\
 Data File : BF133841.D
 Acq On : 19 Jun 2023 19:24
 Operator : CG\JU
 Sample : 03164-01
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-001

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/20/2023
 Supervised By :mohammad ahmed 06/20/2023

Quant Time: Jun 19 20:04:07 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 19 16:00:59 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.857	152	93780	20.000	ng	0.00
21) Naphthalene-d8	8.133	136	339566	20.000	ng	0.00
39) Acenaphthene-d10	9.892	164	146876	20.000	ng	0.00
64) Phenanthrene-d10	11.386	188	233578	20.000	ng	0.00
76) Chrysene-d12	14.051	240	189078	20.000	ng	0.00
86) Perylene-d12	15.562	264	201574	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	571492	106.090	ng	0.00
7) Phenol-d6	6.492	99	669396	95.466	ng	0.00
23) Nitrobenzene-d5	7.416	82	464068	74.437	ng	-0.01
42) 2,4,6-Tribromophenol	10.686	330	155093	83.420	ng	0.00
45) 2-Fluorobiphenyl	9.210	172	733123	70.954	ng	-0.01
79) Terphenyl-d14	12.986	244	577737	47.280	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.157	128	34198	2.067	ng	98
49) Acenaphthylene	9.751	152	31702	2.144	ng	97
71) Phenanthrene	11.410	178	205254	17.320	ng	99
72) Anthracene	11.463	178	47472	3.842	ng	100
75) Fluoranthene	12.610	202	358703	28.504	ng	98
78) Pyrene	12.839	202	414735	23.547	ng	98
81) Benzo(a)anthracene	14.039	228	242196	18.518	ng	94
83) Chrysene	14.074	228	253841	20.521	ng	96
87) Indeno(1,2,3-cd)pyrene	17.109	276	139804	10.081	ng	97
88) Benzo(b)fluoranthene	15.115	252	318453m	26.007	ng	
89) Benzo(k)fluoranthene	15.139	252	92476m	7.753	ng	
90) Benzo(a)pyrene	15.498	252	226733	19.952	ng	97
92) Benzo(g,h,i)perylene	17.580	276	145566	12.788	ng	97

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

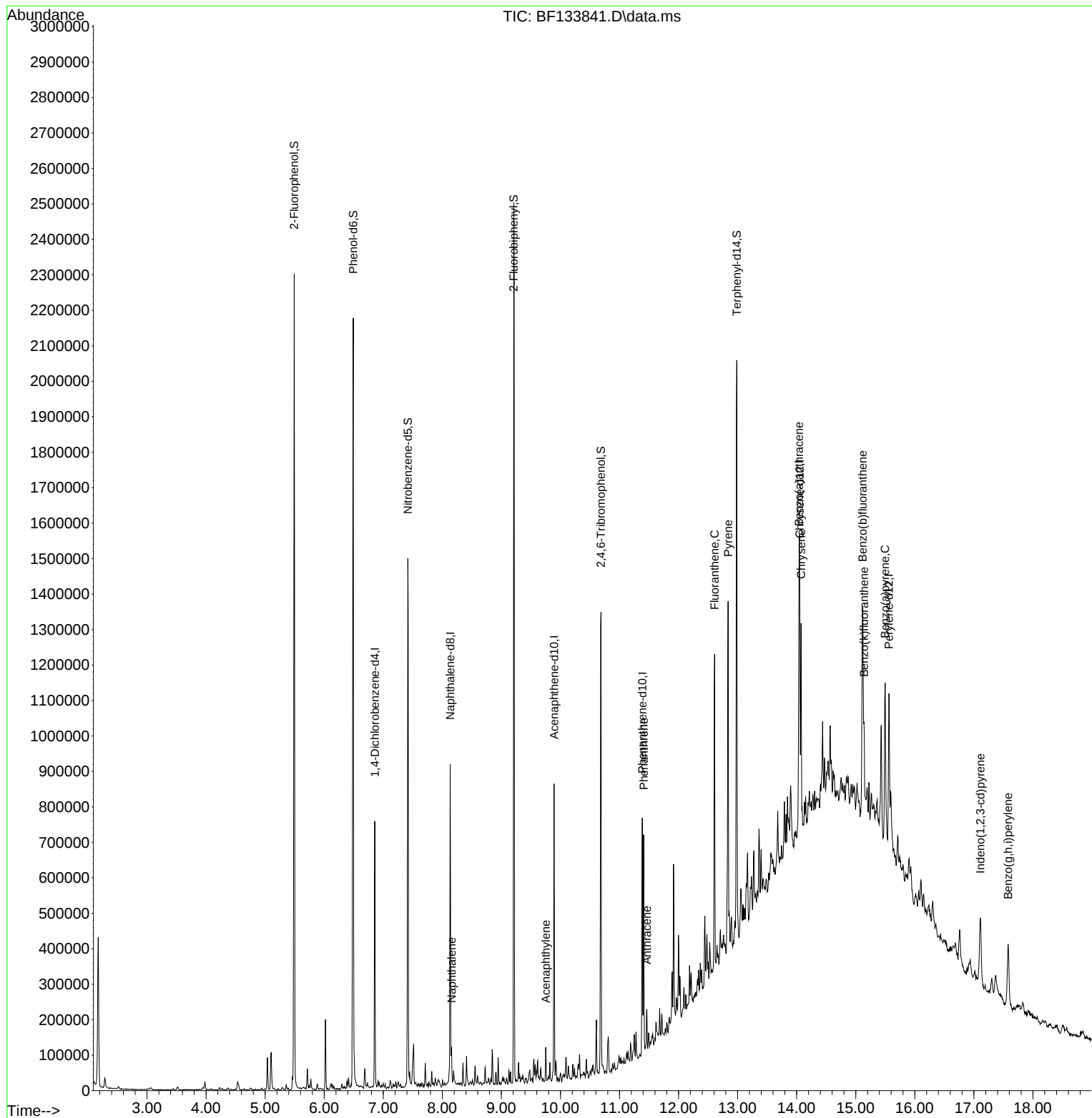
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061923\
Data File : BF133841.D
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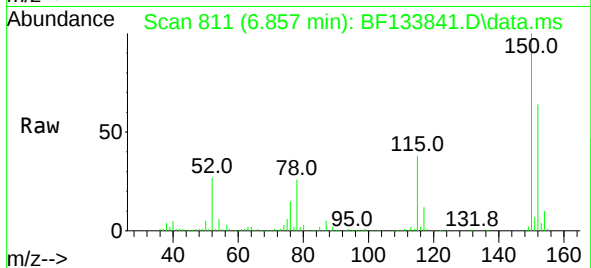
Reviewed By :Yogesh Patel 06/20/2023
Supervised By :mohammad ahmed 06/20/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.857 min Scan# 811
Delta R.T. -0.006 min
Lab File: BF133841.D
Acq: 19 Jun 2023 19:24

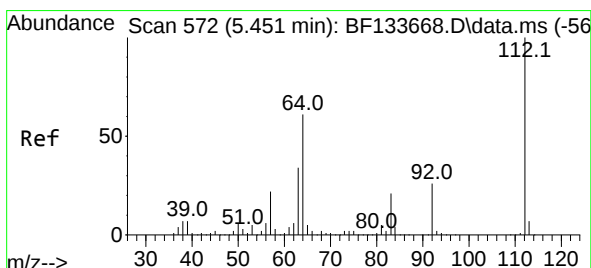
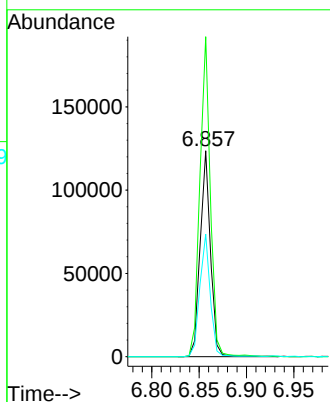
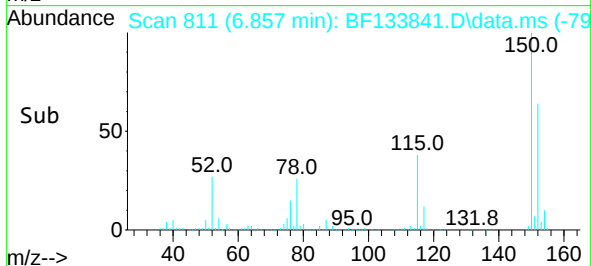
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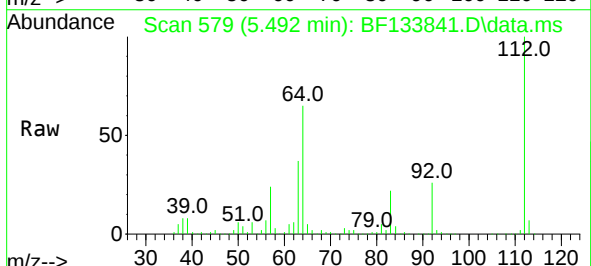
Tgt Ion:152 Resp: 93780
Ion Ratio Lower Upper
152 100
150 155.5 124.3 186.5
115 59.6 48.5 72.7

Manual Integrations
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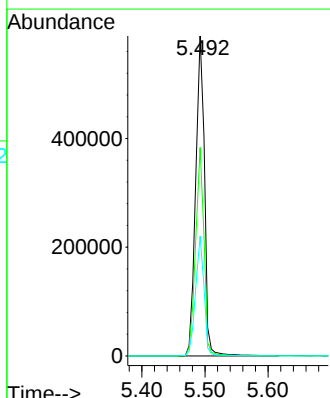
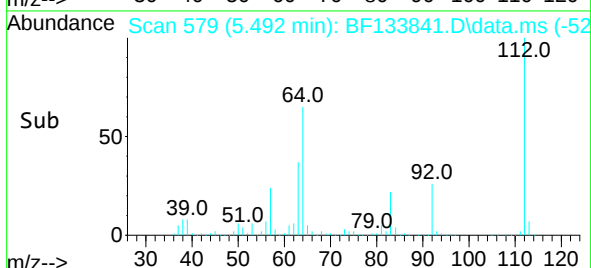
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Supervised By :mohammad ahmed 06/20/2023

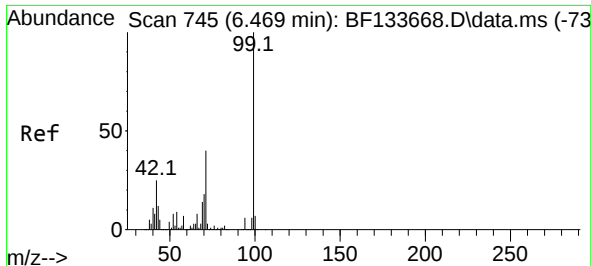


#5
2-Fluorophenol
Concen: 106.090 ng
RT: 5.492 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF133841.D
Acq: 19 Jun 2023 19:24



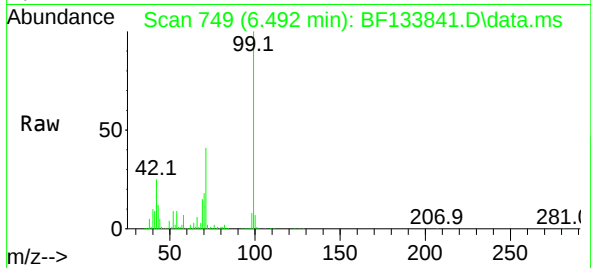
Tgt Ion:112 Resp: 571492
Ion Ratio Lower Upper
112 100
64 65.2 49.0 73.4
63 37.4 26.8 40.2





#7
Phenol-d6
Concen: 95.466 ng
RT: 6.492 min Scan# 745
Delta R.T. -0.006 min
Lab File: BF133841.D
Acq: 19 Jun 2023 19:24

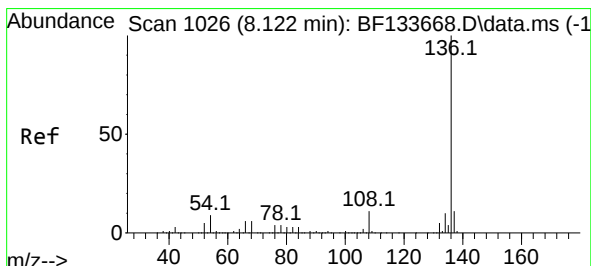
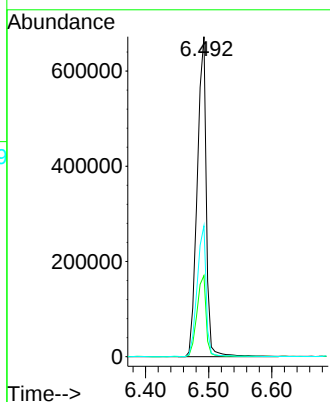
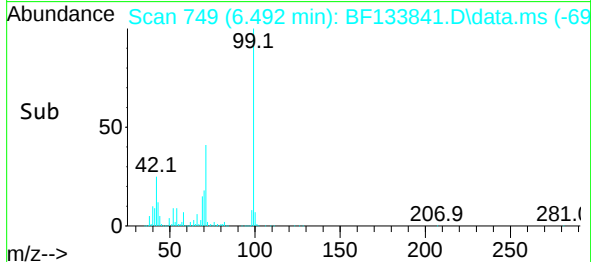
Instrument :
BNA_F
ClientSampleId :
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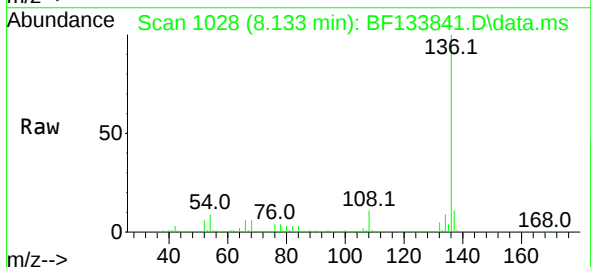
Tgt Ion: 99 Resp: 669390
Ion Ratio Lower Upper
99 100
42 25.4 19.9 29.9
71 40.9 32.2 48.4

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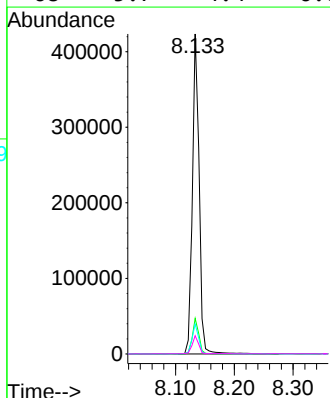
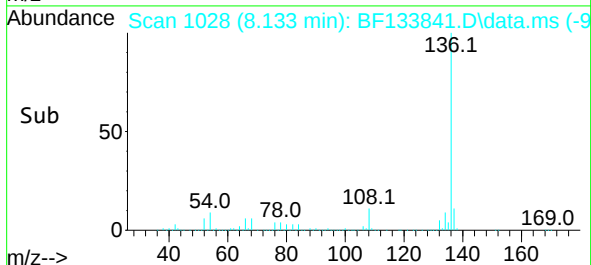
Reviewed By :Yogesh Patel 06/20/2023
Supervised By :mohammad ahmed 06/20/2023

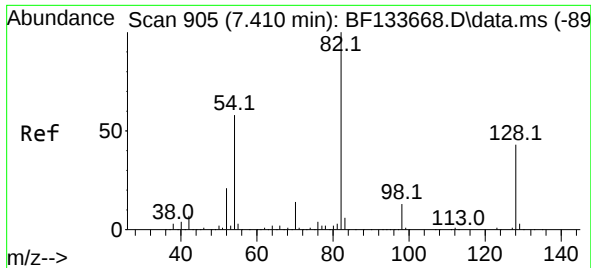


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.133 min Scan# 1028
Delta R.T. -0.006 min
Lab File: BF133841.D
Acq: 19 Jun 2023 19:24



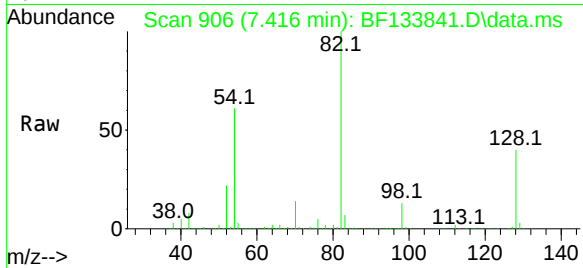
Tgt Ion:136 Resp: 339566
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 9.3 7.4 11.0
68 5.7 4.4 6.6





#23
Nitrobenzene-d5
Concen: 74.437 ng
RT: 7.416 min Scan# 905
Delta R.T. -0.012 min
Lab File: BF133841.D
Acq: 19 Jun 2023 19:24

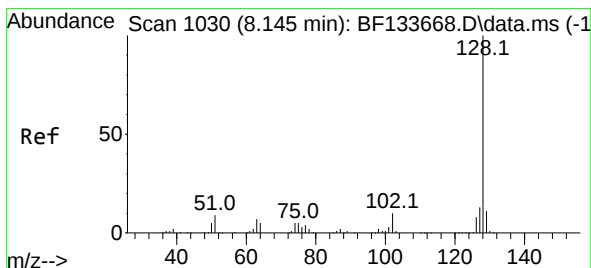
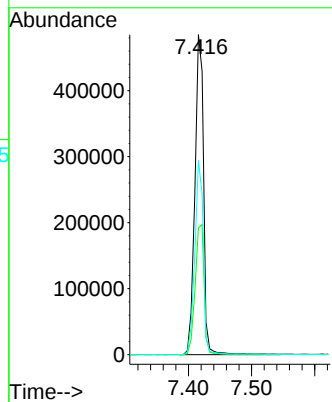
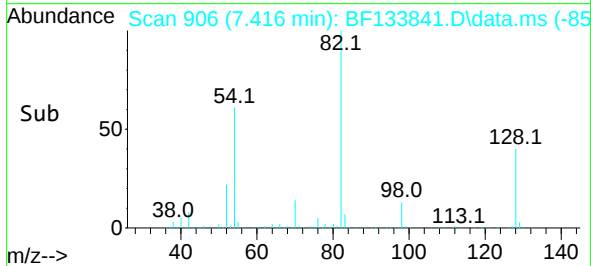
Instrument :
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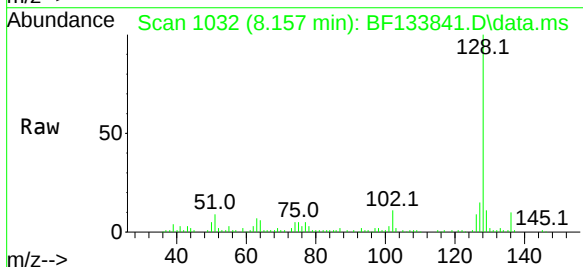
Tgt Ion: 82 Resp: 464068
Ion Ratio Lower Upper
82 100
128 39.7 34.2 51.2
54 60.6 46.5 69.7

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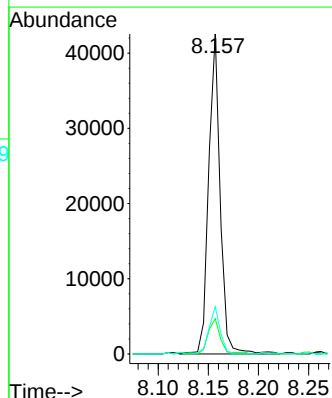
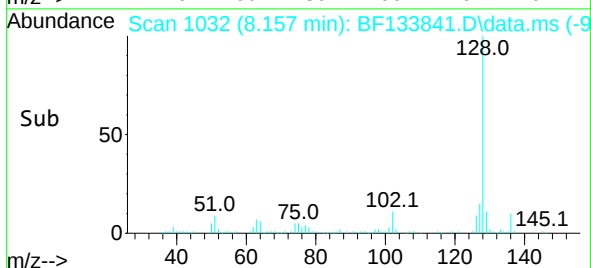
Reviewed By :Yogesh Patel 06/20/2023
Supervised By :mohammad ahmed 06/20/2023

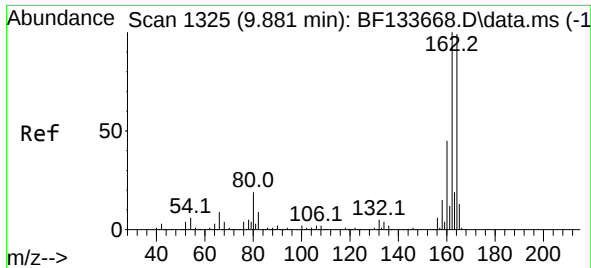


#31
Naphthalene
Concen: 2.067 ng
RT: 8.157 min Scan# 1032
Delta R.T. -0.006 min
Lab File: BF133841.D
Acq: 19 Jun 2023 19:24



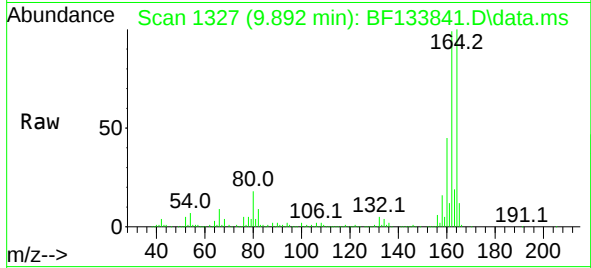
Tgt Ion:128 Resp: 34198
Ion Ratio Lower Upper
128 100
129 11.0 8.9 13.3
127 14.8 10.5 15.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133841.D
Acq: 19 Jun 2023 19:24

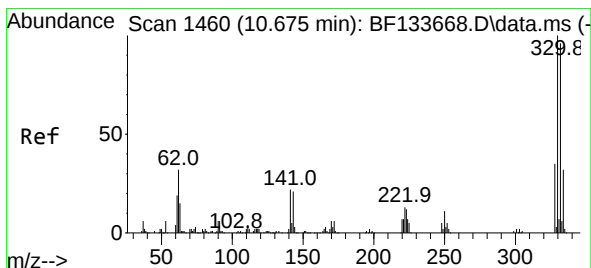
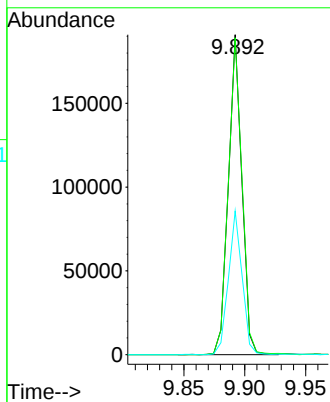
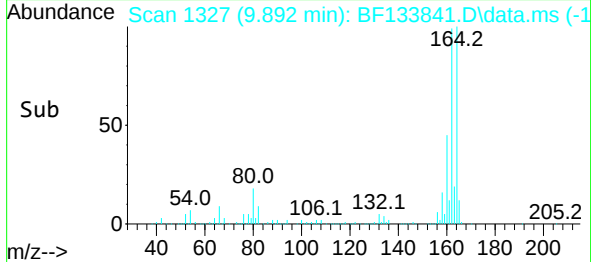
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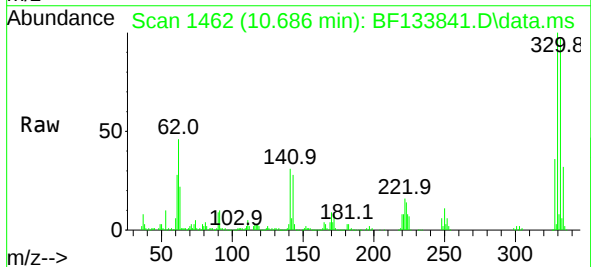
Tgt Ion:164 Resp: 146870
Ion Ratio Lower Upper
164 100
162 99.1 80.8 121.2
160 44.9 36.7 55.1

Manual Integrations
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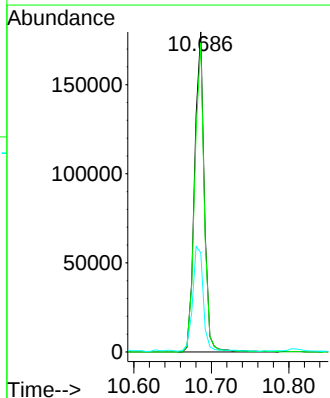
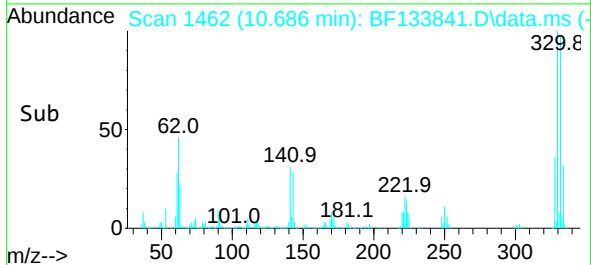
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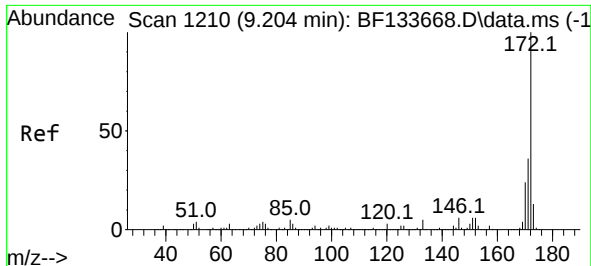


#42
2,4,6-Tribromophenol
Concen: 83.420 ng
RT: 10.686 min Scan# 1462
Delta R.T. -0.006 min
Lab File: BF133841.D
Acq: 19 Jun 2023 19:24



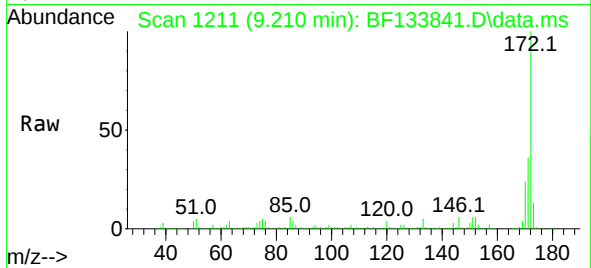
Tgt Ion:330 Resp: 155093
Ion Ratio Lower Upper
330 100
332 95.1 77.2 115.8
141 36.5 24.9 37.3





#45
2-Fluorobiphenyl
Concen: 70.954 ng
RT: 9.210 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF133841.D
Acq: 19 Jun 2023 19:24

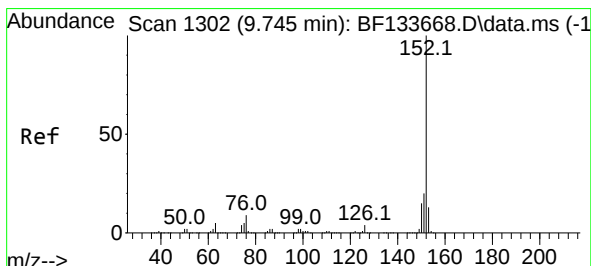
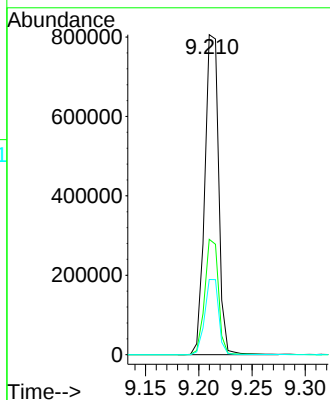
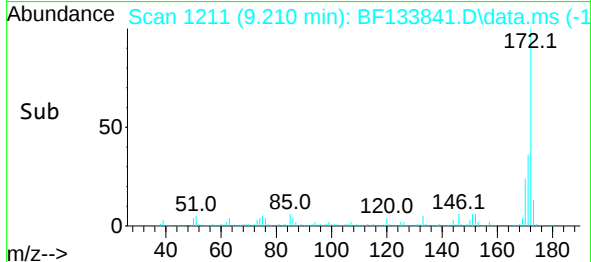
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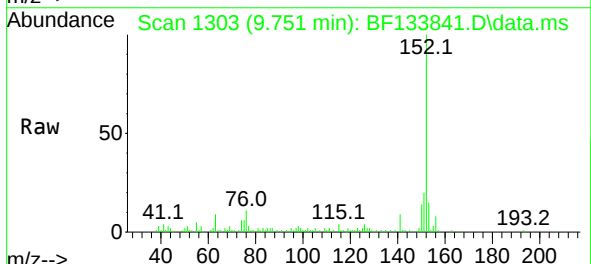
Tgt Ion:172 Resp: 73312
Ion Ratio Lower Upper
172 100
171 36.0 28.6 43.0
170 23.5 19.1 28.7

Manual Integrations
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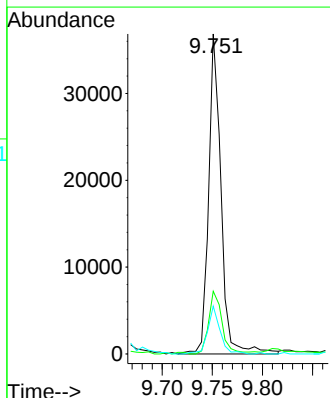
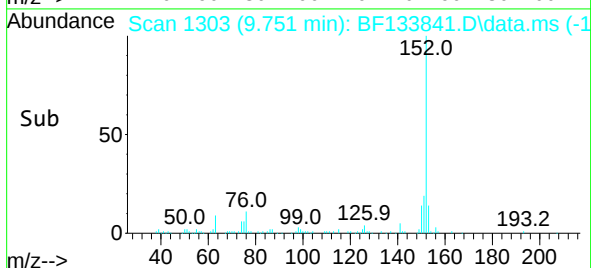
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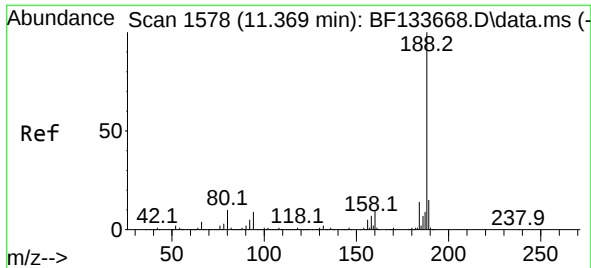


#49
Acenaphthylene
Concen: 2.144 ng
RT: 9.751 min Scan# 1303
Delta R.T. -0.012 min
Lab File: BF133841.D
Acq: 19 Jun 2023 19:24



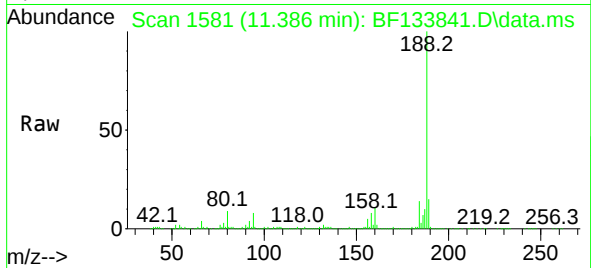
Tgt Ion:152 Resp: 31702
Ion Ratio Lower Upper
152 100
151 19.6 16.2 24.4
153 15.0 10.4 15.6





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.386 min Scan# 1581
Delta R.T. -0.006 min
Lab File: BF133841.D
Acq: 19 Jun 2023 19:24

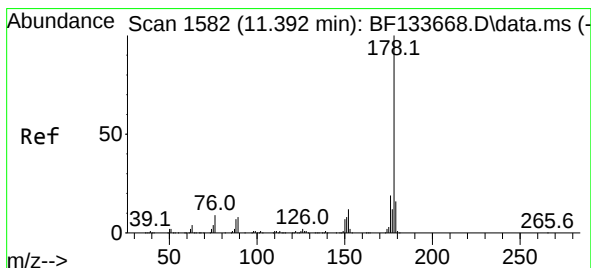
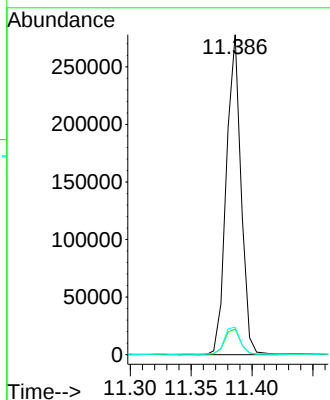
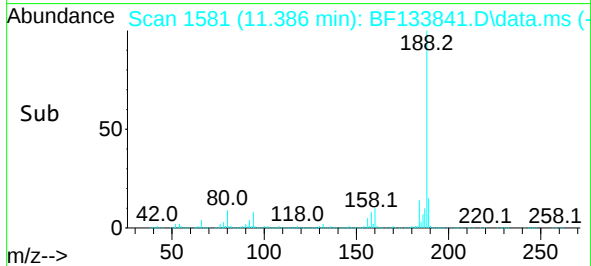
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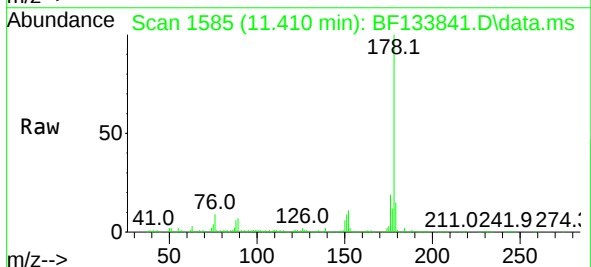
Tgt Ion:188 Resp: 233578
Ion Ratio Lower Upper
188 100
94 8.0 6.8 10.2
80 8.7 7.8 11.6

Manual Integrations
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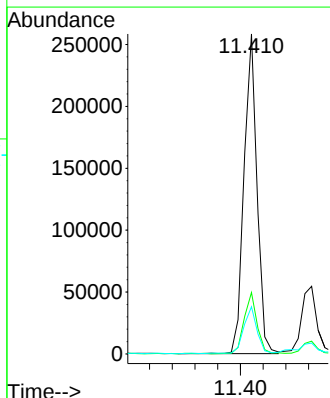
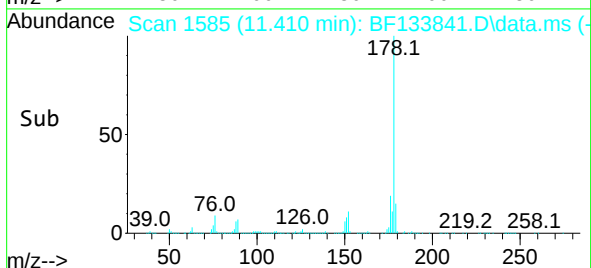
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Supervised By :mohammad ahmed 06/20/2023

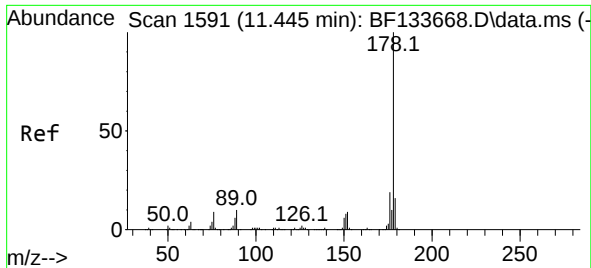


#71
Phenanthrene
Concen: 17.320 ng
RT: 11.410 min Scan# 1585
Delta R.T. -0.012 min
Lab File: BF133841.D
Acq: 19 Jun 2023 19:24



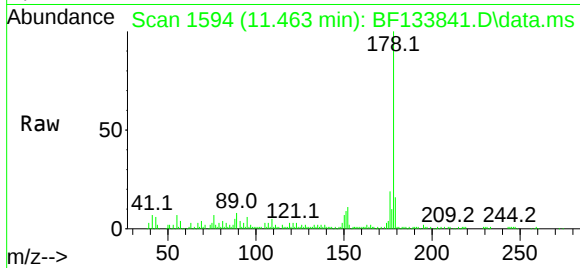
Tgt Ion:178 Resp: 205254
Ion Ratio Lower Upper
178 100
176 19.2 15.6 23.4
179 14.8 12.4 18.6





#72
 Anthracene
 Concen: 3.842 ng
 RT: 11.463 min Scan# 1594
 Delta R.T. -0.006 min
 Lab File: BF133841.D
 Acq: 19 Jun 2023 19:24

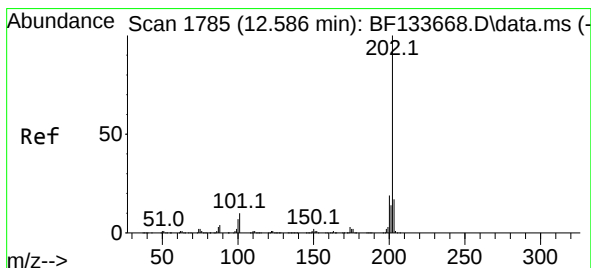
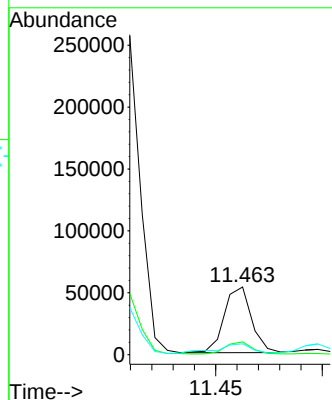
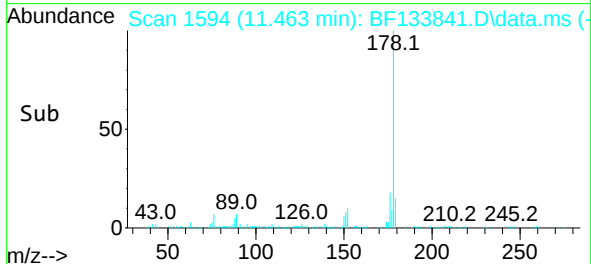
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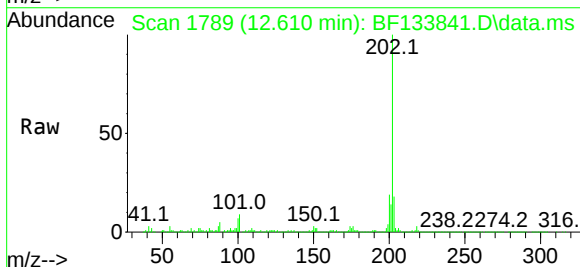
Tgt Ion:178 Resp: 47472
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.1 22.7
 179 16.0 12.6 18.8

Manual Integrations
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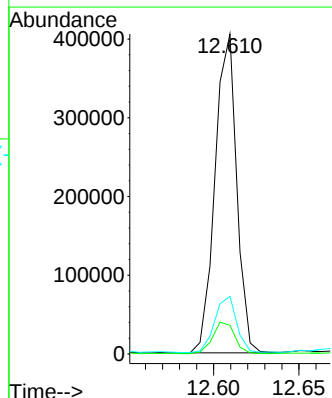
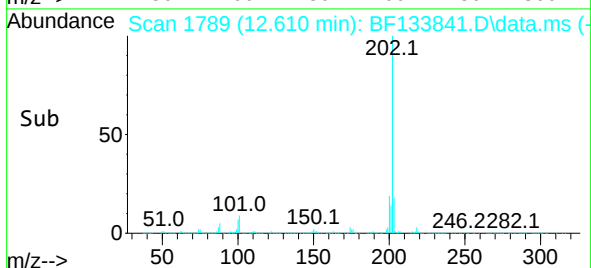
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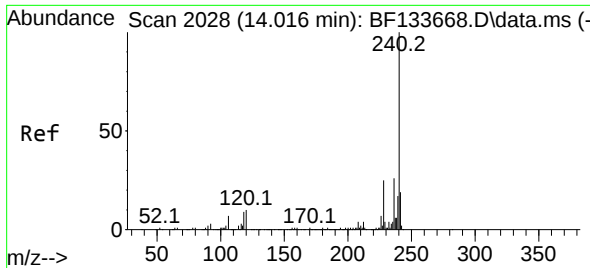


#75
 Fluoranthene
 Concen: 28.504 ng
 RT: 12.610 min Scan# 1789
 Delta R.T. -0.006 min
 Lab File: BF133841.D
 Acq: 19 Jun 2023 19:24



Tgt Ion:202 Resp: 358703
 Ion Ratio Lower Upper
 202 100
 101 8.9 0.0 29.6
 203 18.0 0.0 37.4





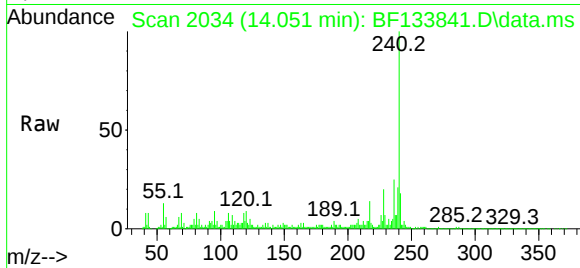
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2028
Delta R.T. -0.000 min
Lab File: BF133841.D
Acq: 19 Jun 2023 19:24

Instrument :

BNA_F

ClientSampleId :

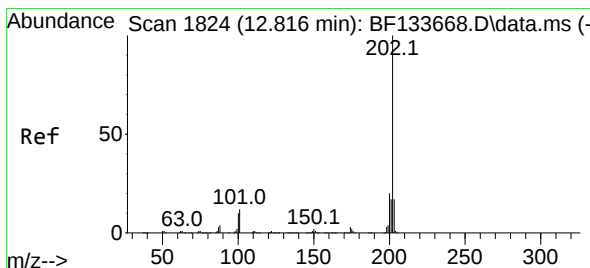
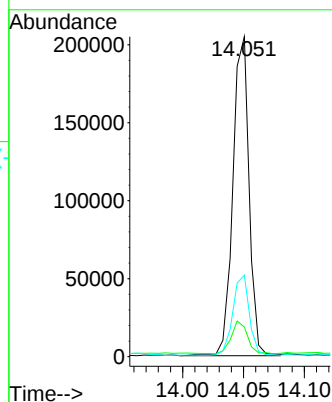
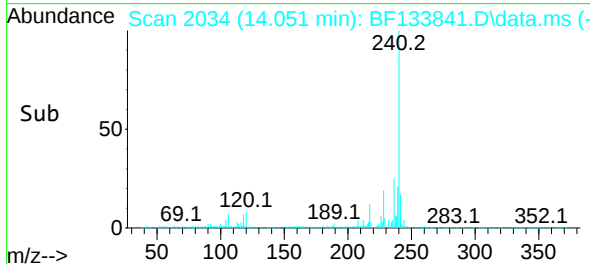
SOIL-001



Tgt Ion:240 Resp: 189078
Ion Ratio Lower Upper
240 100
120 9.2 8.1 12.1
236 25.5 20.5 30.7

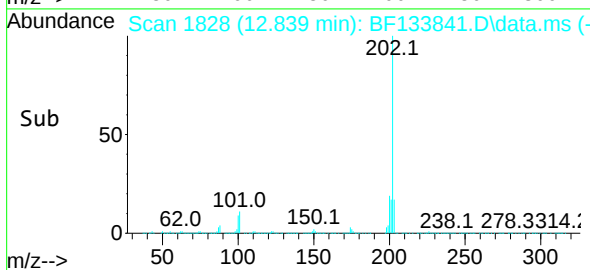
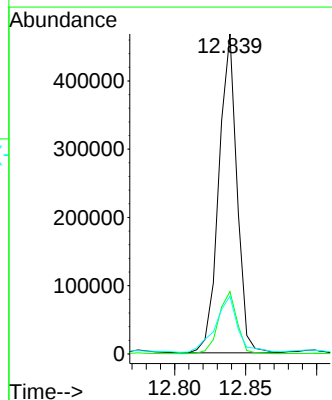
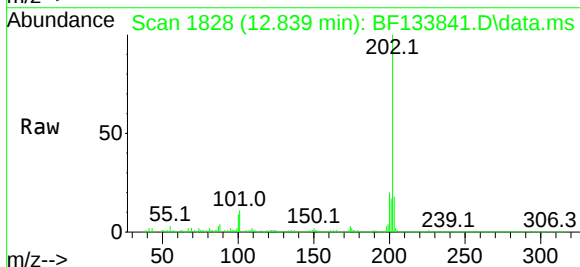
Manual Integrations
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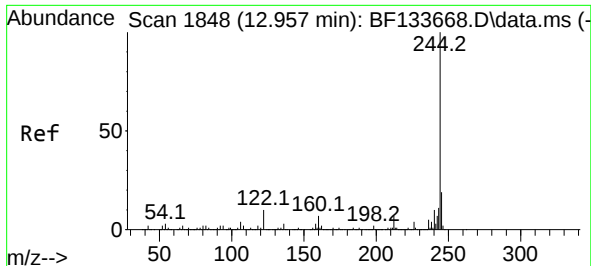
Reviewed By :Yogesh Patel 06/20/2023
Supervised By :mohammad ahmed 06/20/2023



#78
Pyrene
Concen: 23.547 ng
RT: 12.839 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BF133841.D
Acq: 19 Jun 2023 19:24

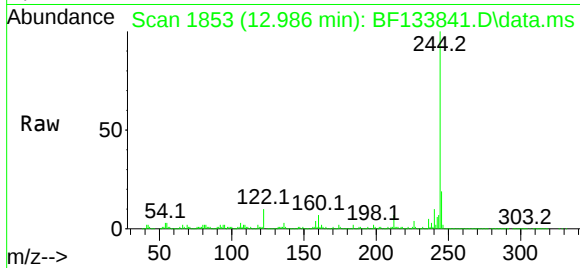
Tgt Ion:202 Resp: 414735
Ion Ratio Lower Upper
202 100
200 19.5 16.2 24.2
203 18.1 13.9 20.9





#79
 Terphenyl-d14
 Concen: 47.280 ng
 RT: 12.986 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BF133841.D
 Acq: 19 Jun 2023 19:24

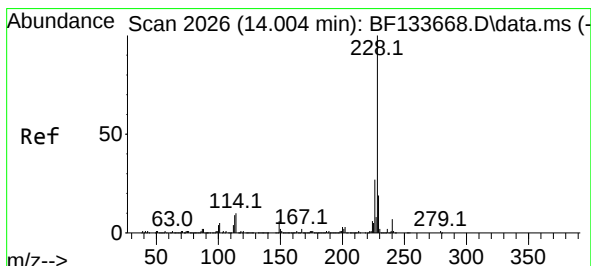
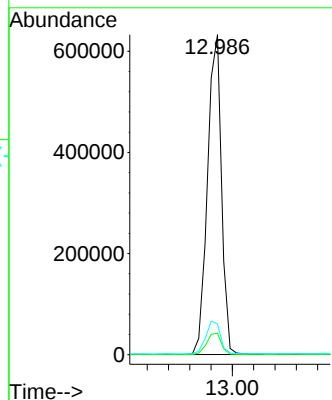
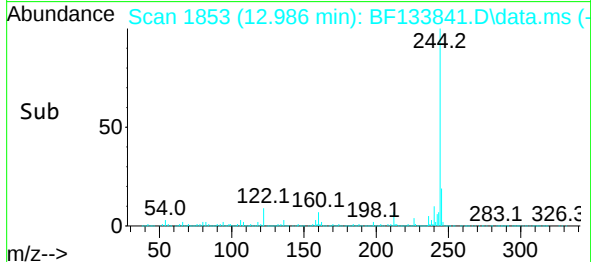
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-001



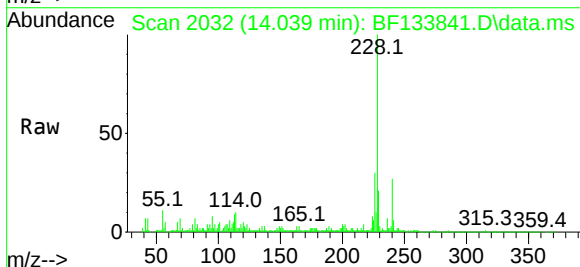
Tgt Ion:244 Resp: 57773
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.4 8.2
 122 9.6 8.1 12.1

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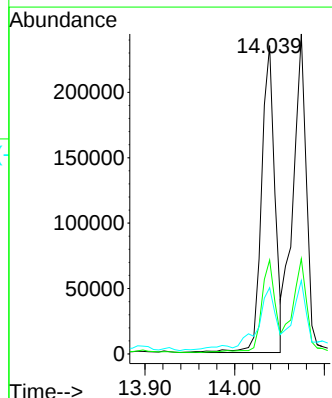
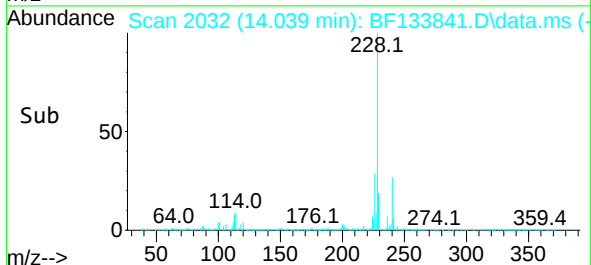
Reviewed By :Yogesh Patel 06/20/2023
 Supervised By :mohammad ahmed 06/20/2023

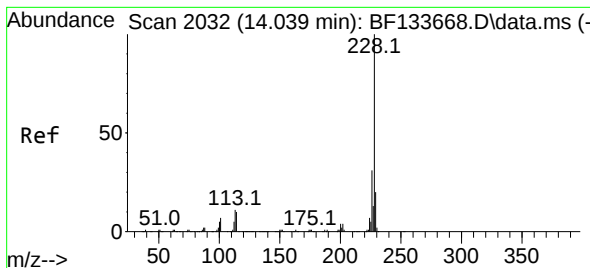


#81
 Benzo(a)anthracene
 Concen: 18.518 ng
 RT: 14.039 min Scan# 2032
 Delta R.T. -0.000 min
 Lab File: BF133841.D
 Acq: 19 Jun 2023 19:24



Tgt Ion:228 Resp: 242196
 Ion Ratio Lower Upper
 228 100
 226 30.5 21.7 32.5
 229 21.5 15.4 23.2





#83

Chrysene

Concen: 20.521 ng

RT: 14.074 min Scan# 2032

Delta R.T. -0.006 min

Lab File: BF133841.D

Acq: 19 Jun 2023 19:24

Instrument :

BNA_F

ClientSampleId :

SOIL-001

Tgt Ion:228 Resp: 25384

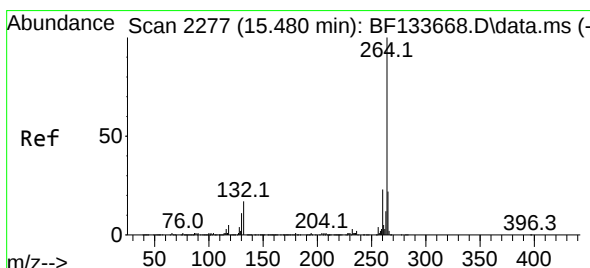
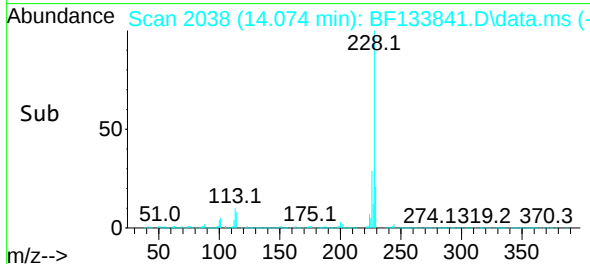
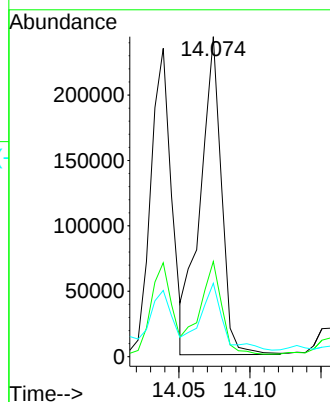
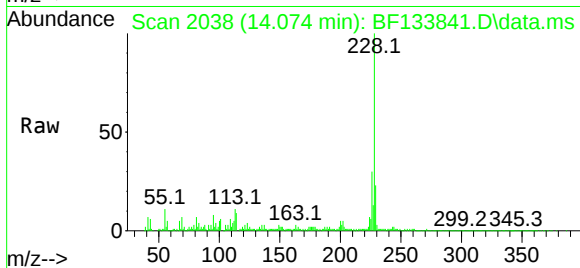
Ion	Ratio	Lower	Upper
228	100		
226	29.7	25.0	37.6
229	23.0	15.8	23.8

Manual Integrations

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Reviewed By :Yogesh Patel 06/20/2023

Supervised By :mohammad ahmed 06/20/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.562 min Scan# 2291

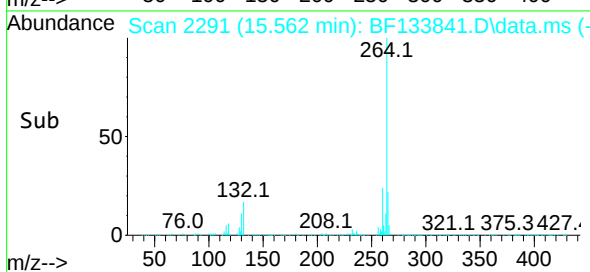
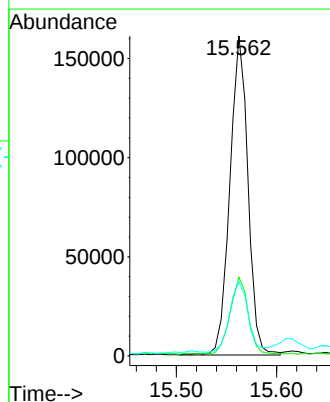
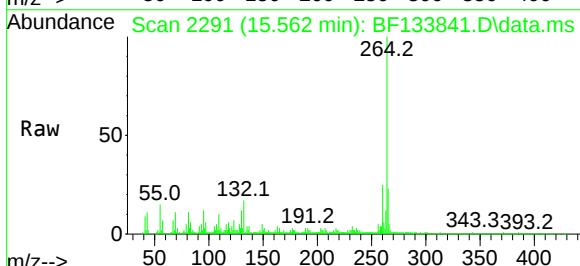
Delta R.T. 0.006 min

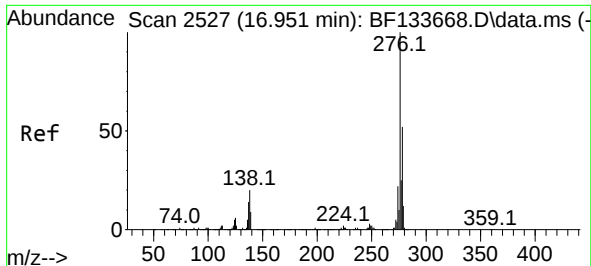
Lab File: BF133841.D

Acq: 19 Jun 2023 19:24

Tgt Ion:264 Resp: 201574

Ion	Ratio	Lower	Upper
264	100		
260	24.6	18.2	27.2
265	23.2	17.8	26.6





#87
Indeno(1,2,3-cd)pyrene
Concen: 10.081 ng
RT: 17.109 min Scan# 2115
Delta R.T. -0.000 min
Lab File: BF133841.D
Acq: 19 Jun 2023 19:24

Instrument :

BNA_F

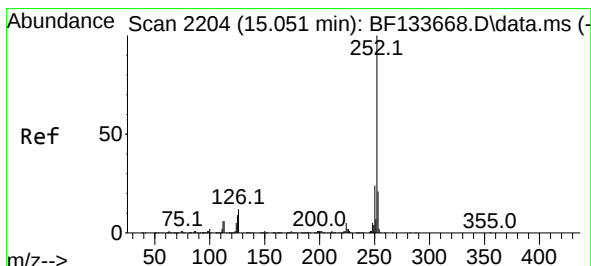
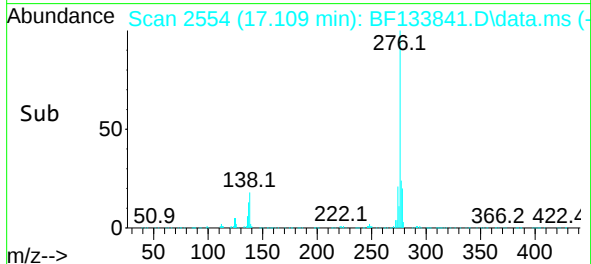
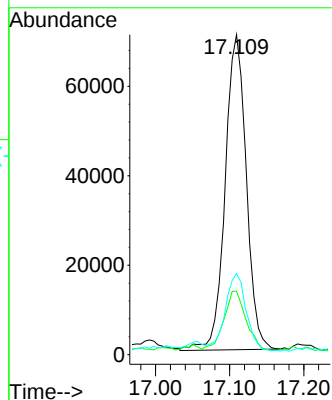
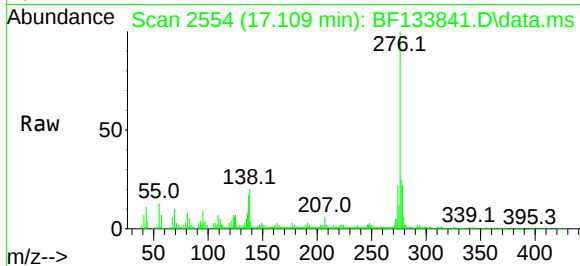
ClientSampleId :

SOIL-001

Tgt Ion:276 Resp: 139804
Ion Ratio Lower Upper
276 100
138 20.0 17.9 26.9
277 24.5 20.3 30.5

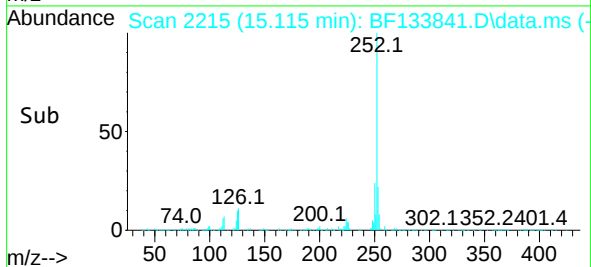
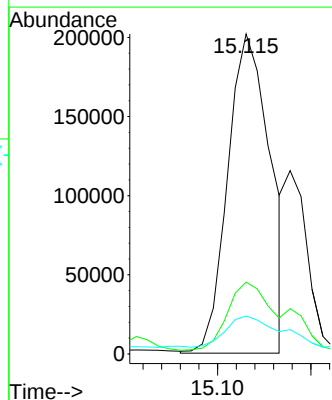
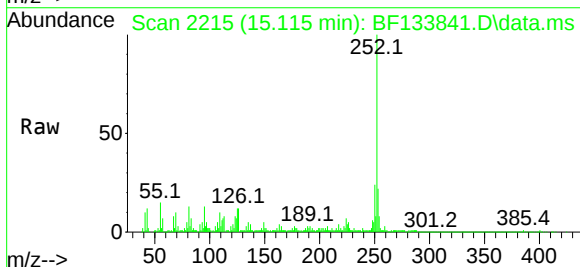
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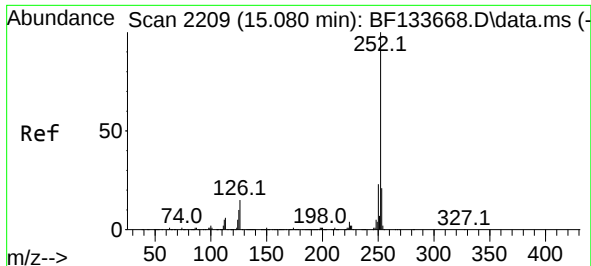
Reviewed By :Yogesh Patel 06/20/2023
Supervised By :mohammad ahmed 06/20/2023



#88
Benzo(b)fluoranthene
Concen: 26.007 ng m
RT: 15.115 min Scan# 2215
Delta R.T. 0.006 min
Lab File: BF133841.D
Acq: 19 Jun 2023 19:24

Tgt Ion:252 Resp: 318453
Ion Ratio Lower Upper
252 100
253 22.4 17.0 25.6
125 11.9 7.3 10.9#





#89

Benzo(k)fluoranthene

Concen: 7.753 ng m

RT: 15.139 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF133841.D

Acq: 19 Jun 2023 19:24

Instrument :

BNA_F

ClientSampleId :

SOIL-001

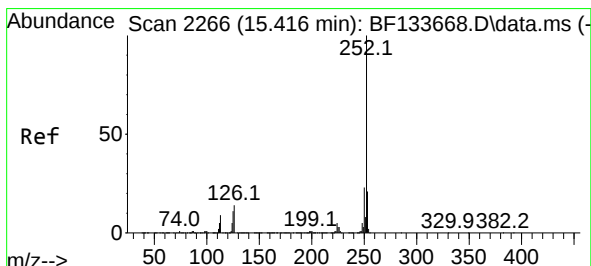
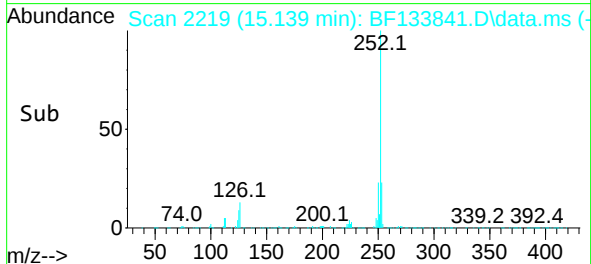
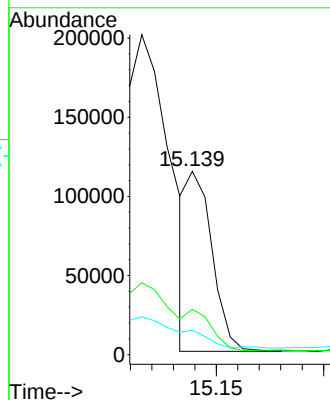
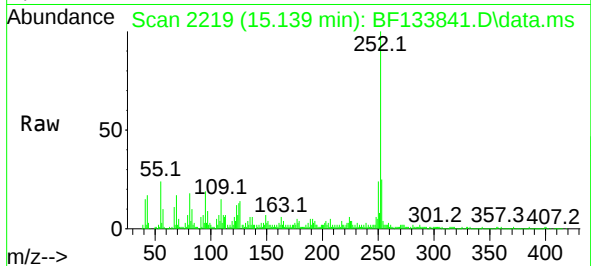
Tgt Ion:252	Resp:	92470
Ion Ratio	Lower	Upper
252	100	
253	24.7	17.0 25.4
125	13.3	7.8 11.6

Manual Integrations

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Reviewed By :Yogesh Patel 06/20/2023

Supervised By :mohammad ahmed 06/20/2023



#90

Benzo(a)pyrene

Concen: 19.952 ng

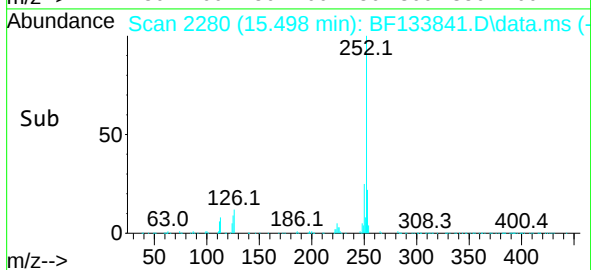
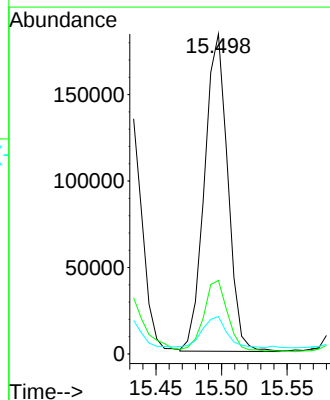
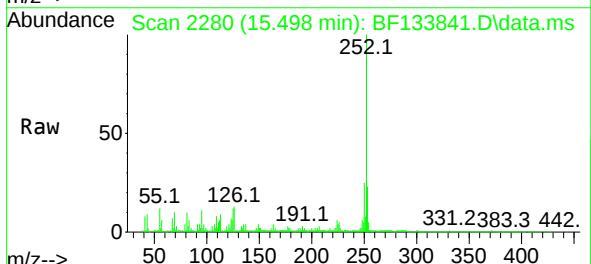
RT: 15.498 min Scan# 2280

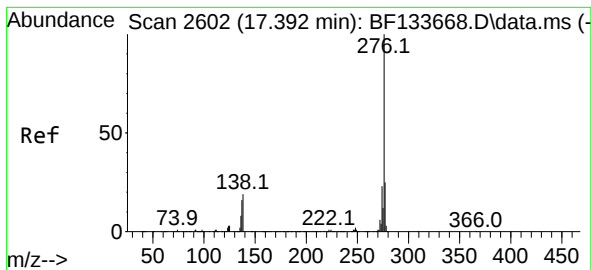
Delta R.T. 0.006 min

Lab File: BF133841.D

Acq: 19 Jun 2023 19:24

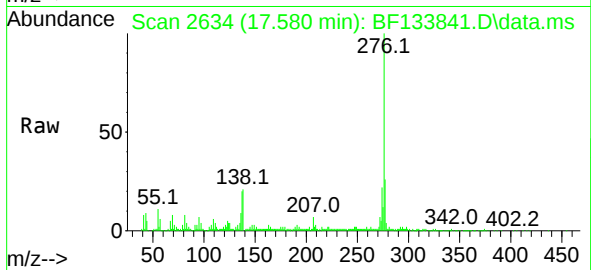
Tgt Ion:252	Resp:	226733
Ion Ratio	Lower	Upper
252	100	
253	23.0	17.1 25.7
125	11.7	8.6 13.0





#92
Benzo(g,h,i)perylene
Concen: 12.788 ng
RT: 17.580 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF133841.D
Acq: 19 Jun 2023 19:24

Instrument :
BNA_F
ClientSampleId :
SOIL-001



Tgt Ion:276 Resp: 145560
Ion Ratio Lower Upper
276 100
277 26.0 19.8 29.8
138 20.9 15.0 22.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/20/2023
Supervised By :mohammad ahmed 06/20/2023

