

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
 Data File : BF135665.D
 Acq On : 09 Oct 2023 22:43
 Operator : CG\JU
 Sample : 04778-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-1

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/11/2023
 Supervised By :mohammad ahmed 10/11/2023

Quant Time: Oct 10 02:29:12 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 04 17:06:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.739	152	112504	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	416997	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	203403	20.000	ng	0.00
64) Phenanthrene-d10	11.269	188	338226	20.000	ng	0.00
76) Chrysene-d12	13.933	240	202522	20.000	ng	0.00
86) Perylene-d12	15.404	264	219103	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	661773	95.671	ng	0.00
7) Phenol-d6	6.392	99	811487	92.261	ng	0.00
23) Nitrobenzene-d5	7.304	82	499676	65.101	ng	0.00
42) 2,4,6-Tribromophenol	10.575	330	180166	89.132	ng	0.00
45) 2-Fluorobiphenyl	9.098	172	828138	61.426	ng	0.00
79) Terphenyl-d14	12.863	244	637244	48.777	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.039	128	192877	9.520	ng	99
37) 2-Methylnaphthalene	8.733	142	49777	3.655	ng	98
38) 1-Methylnaphthalene	8.828	142	32203	2.526	ng	97
52) Acenaphthene	9.804	154	48627	4.367	ng	98
55) Dibenzofuran	9.980	168	65274	3.842	ng	98
58) Fluorene	10.327	166	63984	4.898	ng	98
71) Phenanthrene	11.292	178	290573	18.165	ng	100
72) Anthracene	11.345	178	36054	2.193	ng	99
73) Carbazole	11.510	167	41073	2.744	ng	98
75) Fluoranthene	12.492	202	202629	12.157	ng	97
78) Pyrene	12.721	202	149931	7.776	ng	97
81) Benzo(a)anthracene	13.921	228	48049	3.674	ng	98
83) Chrysene	13.957	228	51086	3.929	ng	98
88) Benzo(b)fluoranthene	14.980	252	55330m	4.665	ng	
90) Benzo(a)pyrene	15.345	252	30580	2.704	ng	98

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

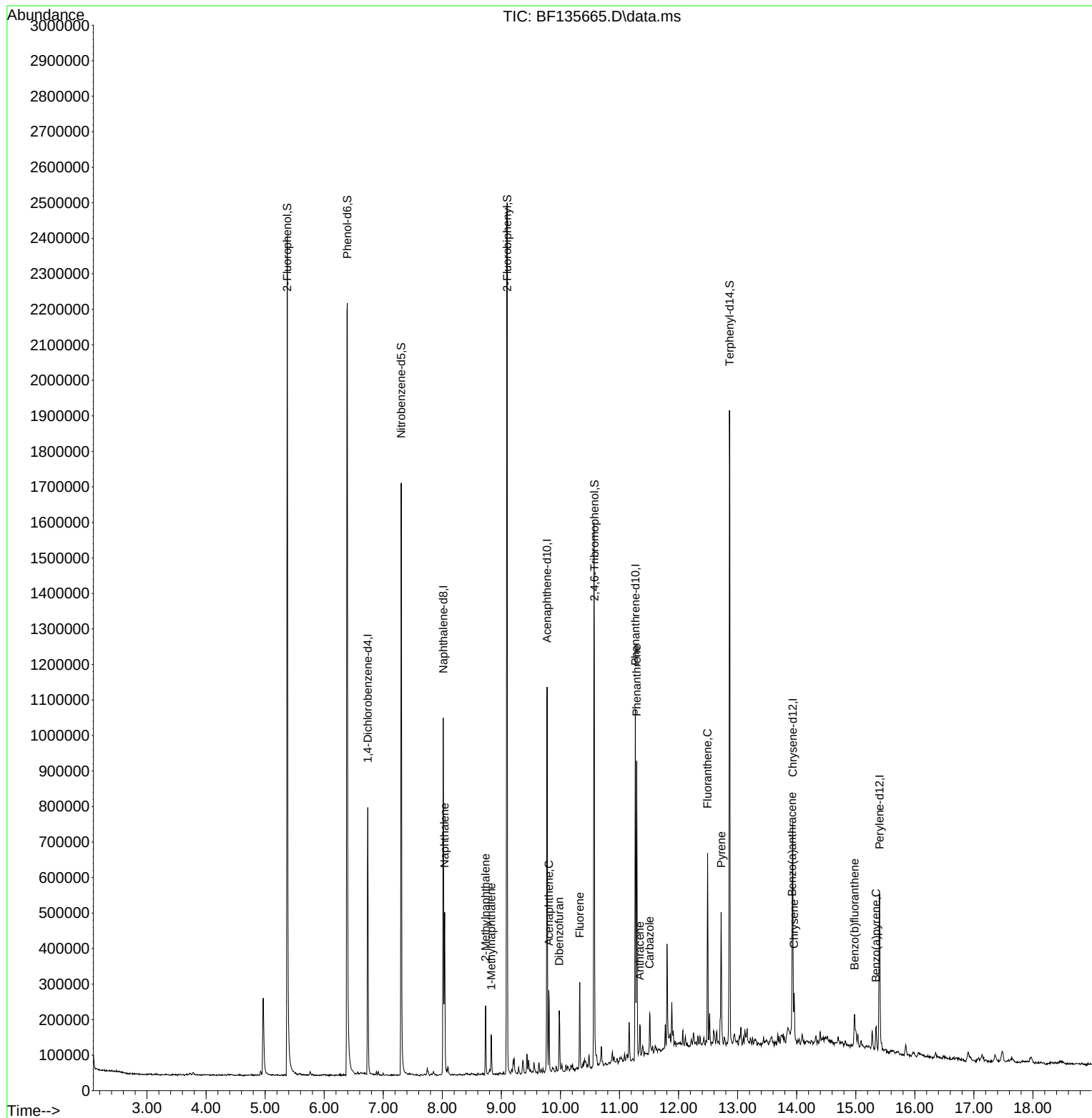
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
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ALS Vial : 12 Sample Multiplier: 1

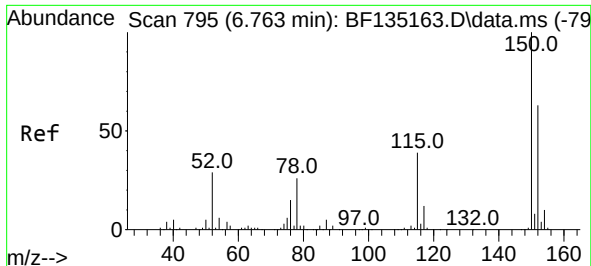
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Quant Time: Oct 10 02:29:12 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
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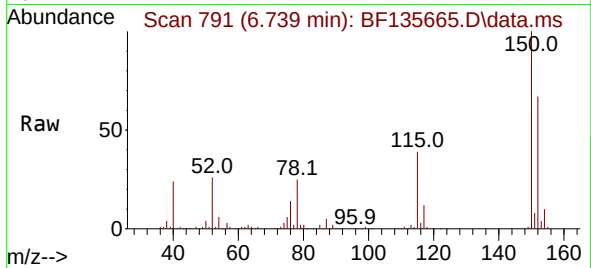
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.739 min Scan# 795
Delta R.T. 0.000 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

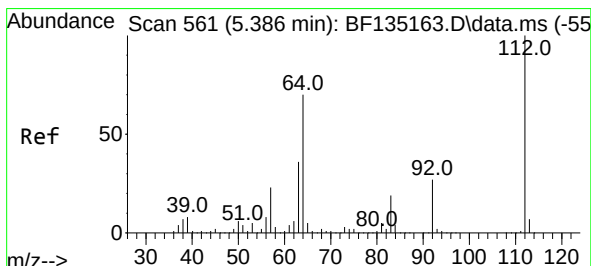
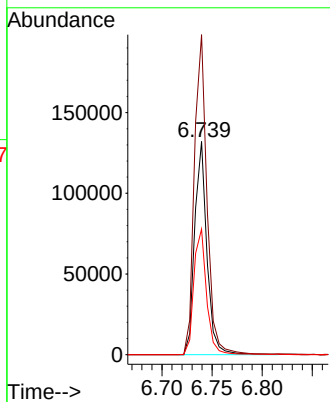
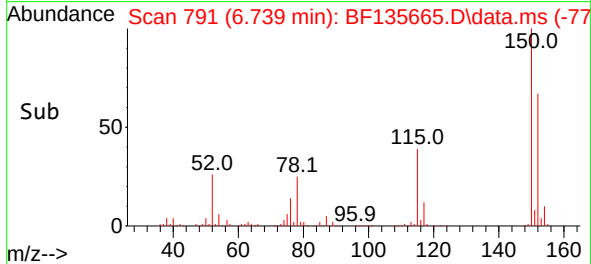
Instrument :
BNA_F
ClientSampleId :
SOIL-1



Tgt Ion:152 Resp: 112504
Ion Ratio Lower Upper
152 100
150 150.1 127.8 191.6
115 58.9 49.8 74.8

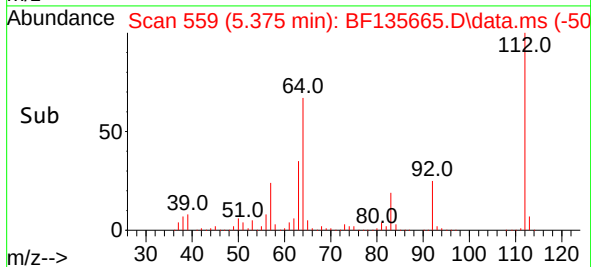
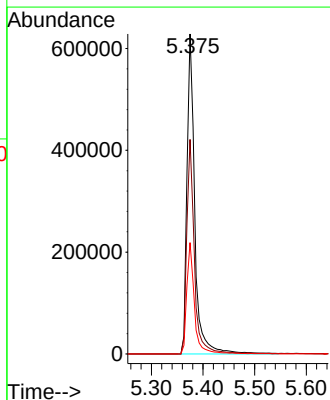
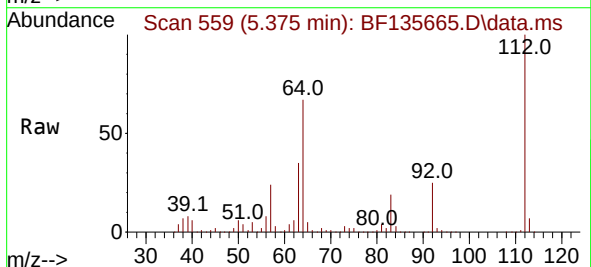
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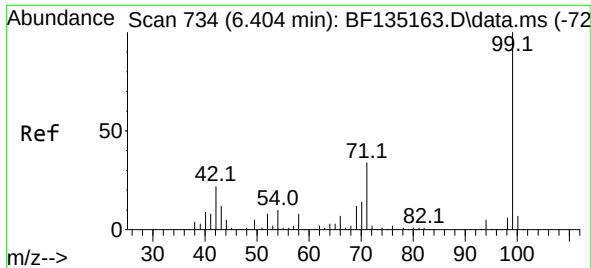
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023



#5
2-Fluorophenol
Concen: 95.671 ng
RT: 5.375 min Scan# 559
Delta R.T. 0.006 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

Tgt Ion:112 Resp: 661773
Ion Ratio Lower Upper
112 100
64 67.1 55.9 83.9
63 34.8 29.0 43.6





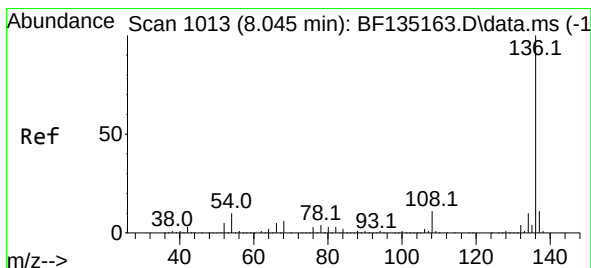
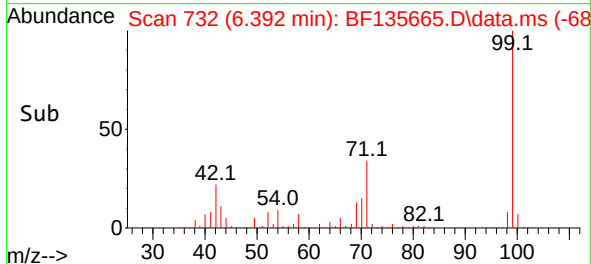
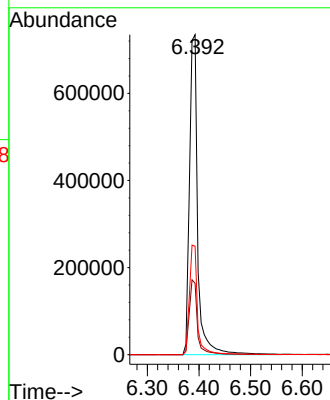
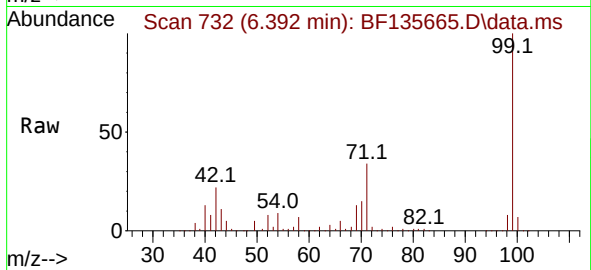
#7
Phenol-d6
Concen: 92.261 ng
RT: 6.392 min Scan# 71
Delta R.T. 0.006 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

Instrument :
BNA_F
ClientSampleId :
SOIL-1

Tgt Ion: 99 Resp: 81148
Ion Ratio Lower Upper
99 100
42 22.3 17.9 26.9
71 33.9 27.0 40.6

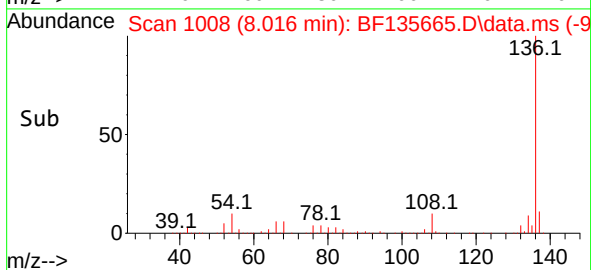
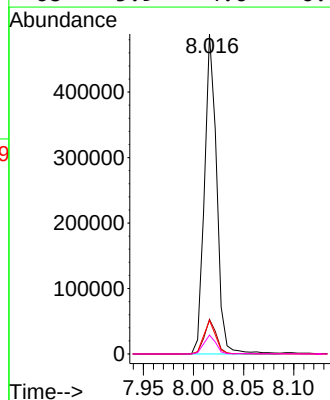
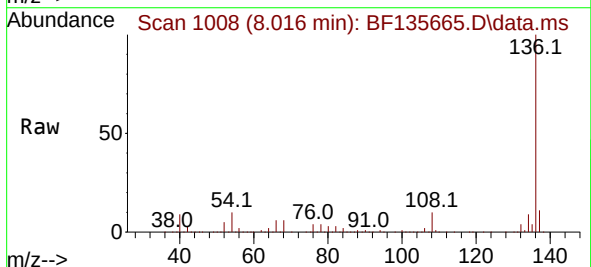
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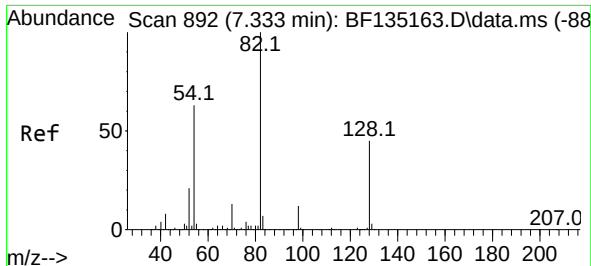
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

Tgt Ion:136 Resp: 416997
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 10.5 7.7 11.5
68 5.9 4.6 6.8





#23

Nitrobenzene-d5

Concen: 65.101 ng

RT: 7.304 min Scan# 81

Delta R.T. -0.006 min

Lab File: BF135665.D

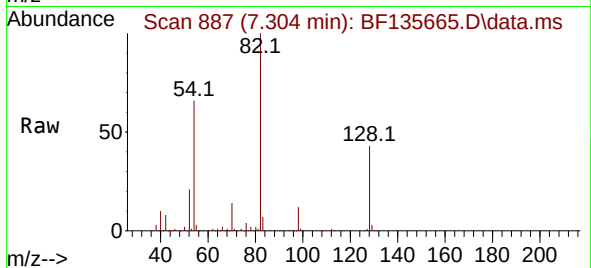
Acq: 09 Oct 2023 22:43

Instrument :

BNA_F

ClientSampleId :

SOIL-1



Tgt Ion: 82 Resp: 499670

Ion Ratio Lower Upper

82 100

128 43.4 35.8 53.6

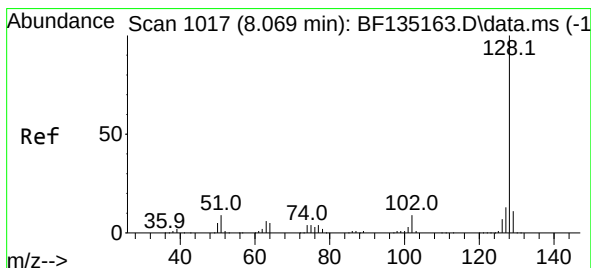
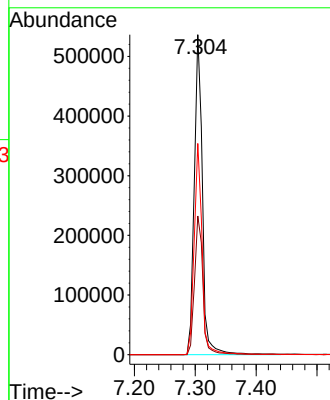
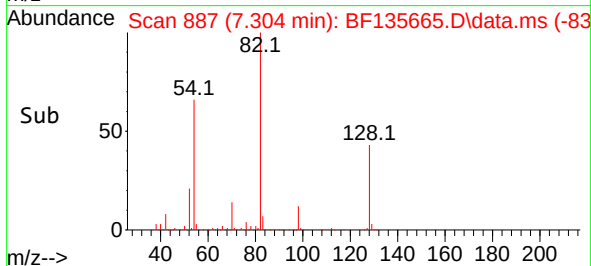
54 66.0 50.6 76.0

Manual Integrations

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Supervised By :mohammad ahmed 10/11/2023



#31

Naphthalene

Concen: 9.520 ng

RT: 8.039 min Scan# 1012

Delta R.T. 0.000 min

Lab File: BF135665.D

Acq: 09 Oct 2023 22:43

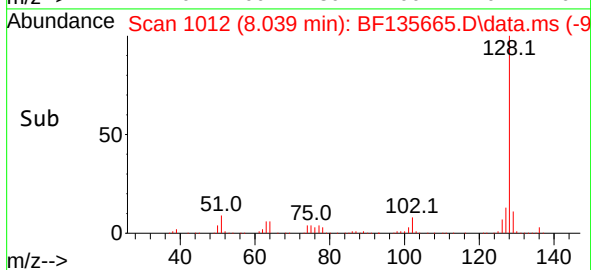
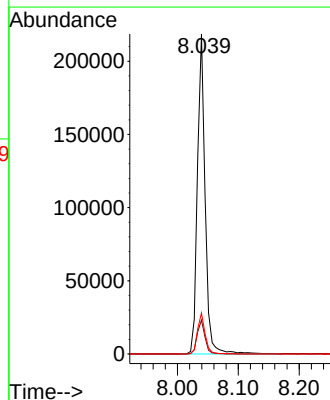
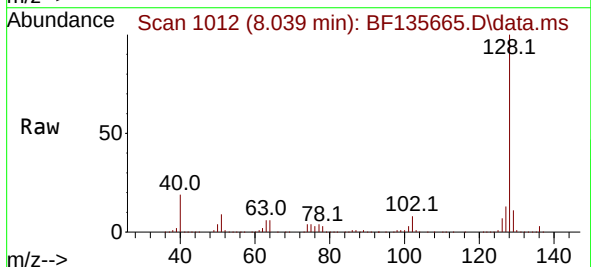
Tgt Ion:128 Resp: 192877

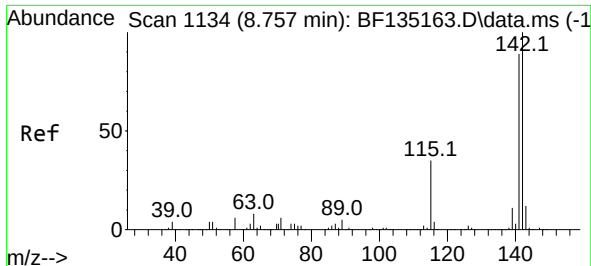
Ion Ratio Lower Upper

128 100

129 10.6 8.7 13.1

127 12.8 10.7 16.1





#37

2-Methylnaphthalene

Concen: 3.655 ng

RT: 8.733 min Scan# 1130

Delta R.T. 0.000 min

Lab File: BF135665.D

Acq: 09 Oct 2023 22:43

Instrument :

BNA_F

ClientSampleId :

SOIL-1

Tgt Ion:142 Resp: 4977

Ion Ratio Lower Upper

142 100

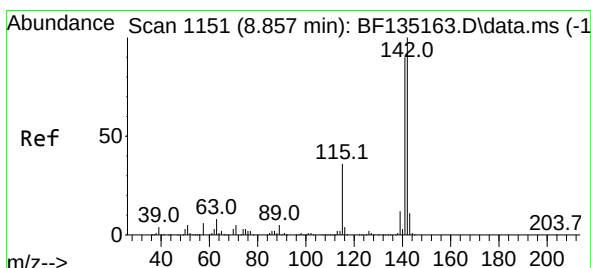
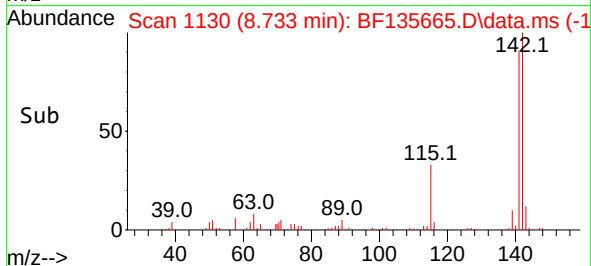
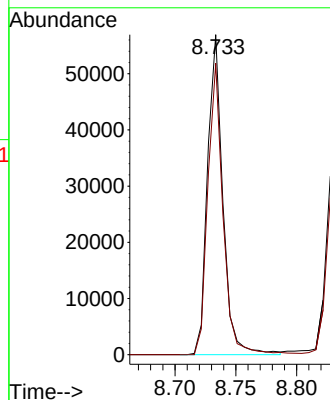
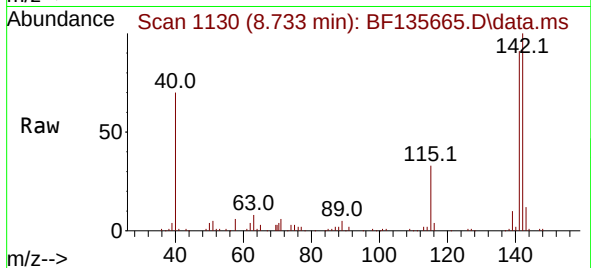
141 91.1 71.0 106.6

Manual Integrations

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Supervised By :mohammad ahmed 10/11/2023



#38

1-Methylnaphthalene

Concen: 2.526 ng

RT: 8.828 min Scan# 1146

Delta R.T. 0.000 min

Lab File: BF135665.D

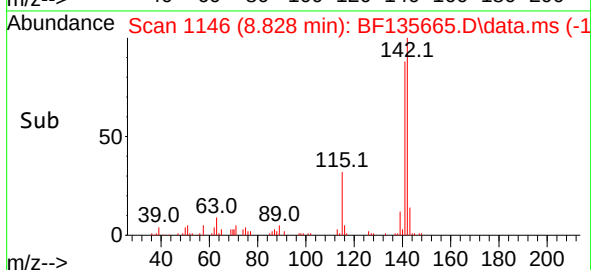
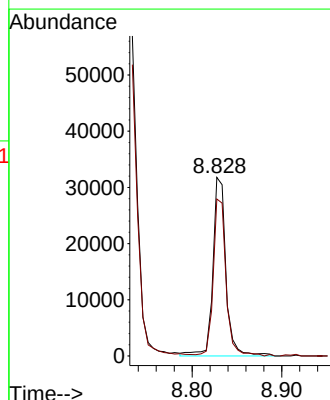
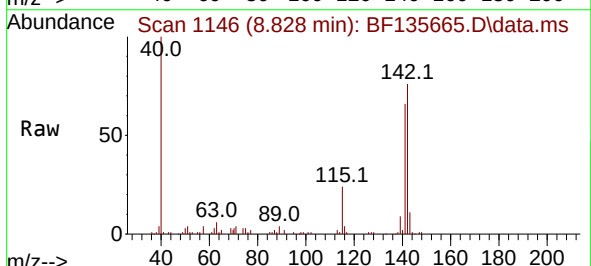
Acq: 09 Oct 2023 22:43

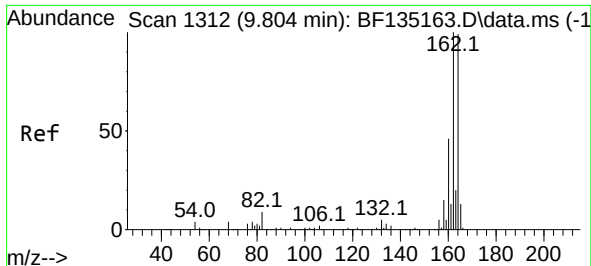
Tgt Ion:142 Resp: 32203

Ion Ratio Lower Upper

142 100

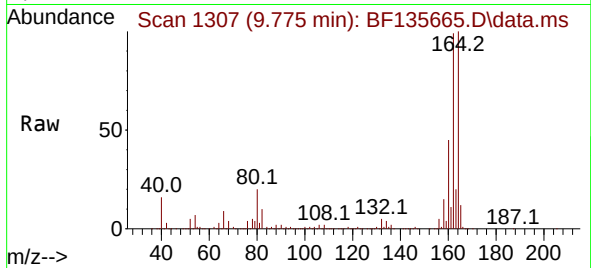
141 87.9 72.4 108.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.775 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

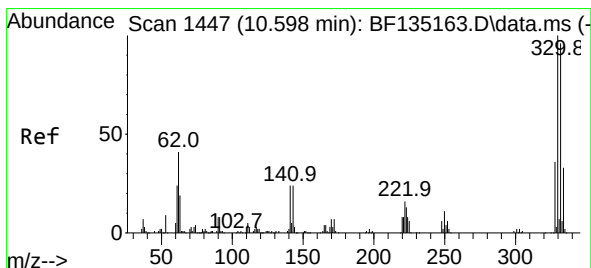
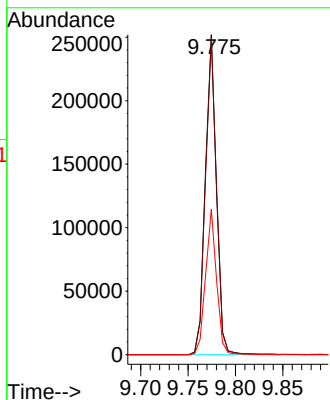
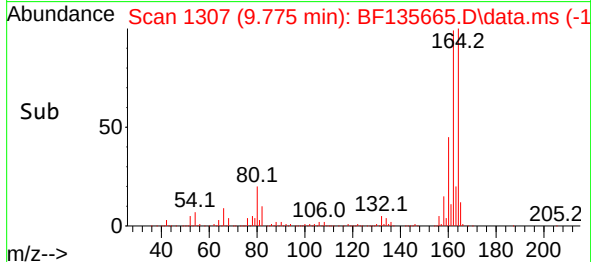
Instrument :
BNA_F
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SOIL-1



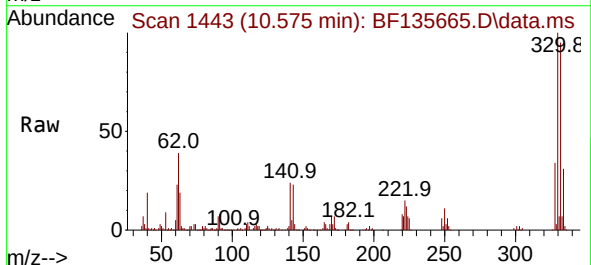
Tgt Ion:164 Resp: 20340
Ion Ratio Lower Upper
164 100
162 99.0 81.0 121.4
160 45.5 37.0 55.4

Manual Integrations
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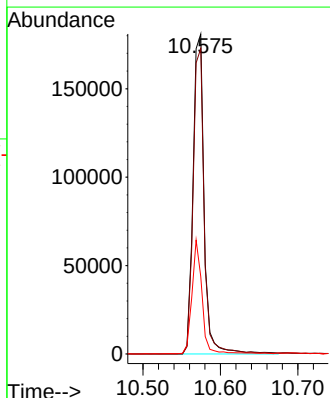
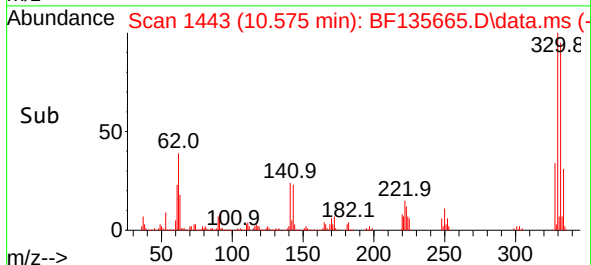
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

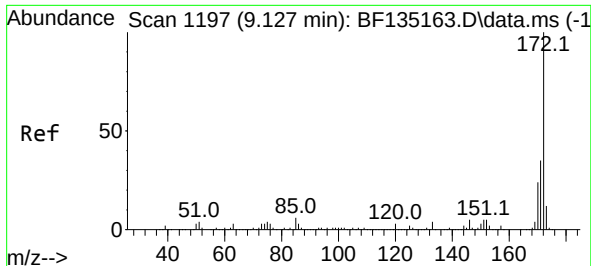


#42
2,4,6-Tribromophenol
Concen: 89.132 ng
RT: 10.575 min Scan# 1443
Delta R.T. 0.006 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43



Tgt Ion:330 Resp: 180166
Ion Ratio Lower Upper
330 100
332 95.2 77.3 115.9
141 32.9 25.8 38.8





#45

2-Fluorobiphenyl

Concen: 61.426 ng

RT: 9.098 min Scan# 1197

Delta R.T. 0.000 min

Lab File: BF135665.D

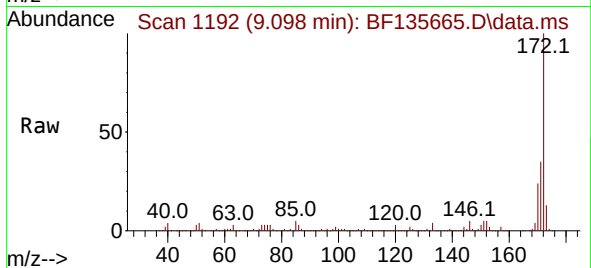
Acq: 09 Oct 2023 22:43

Instrument :

BNA_F

ClientSampleId :

SOIL-1



Tgt Ion:172 Resp: 828138

Ion Ratio Lower Upper

172 100

171 34.8 28.4 42.6

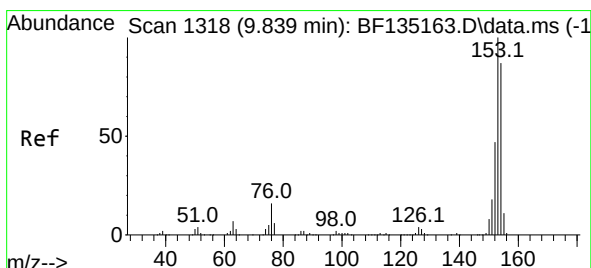
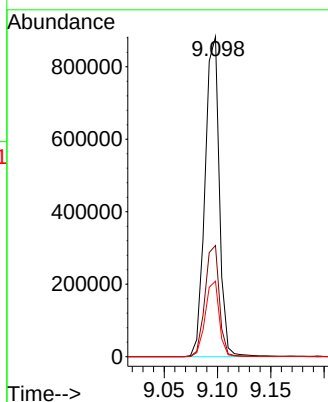
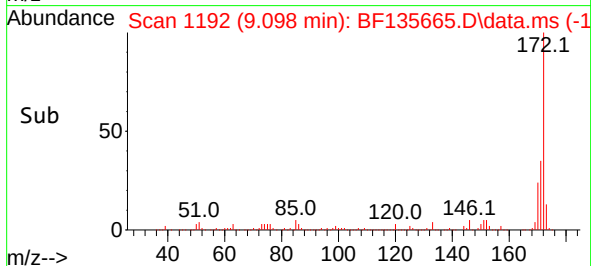
170 23.6 19.0 28.4

Manual Integrations

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Supervised By :mohammad ahmed 10/11/2023



#52

Acenaphthene

Concen: 4.367 ng

RT: 9.804 min Scan# 1312

Delta R.T. -0.006 min

Lab File: BF135665.D

Acq: 09 Oct 2023 22:43

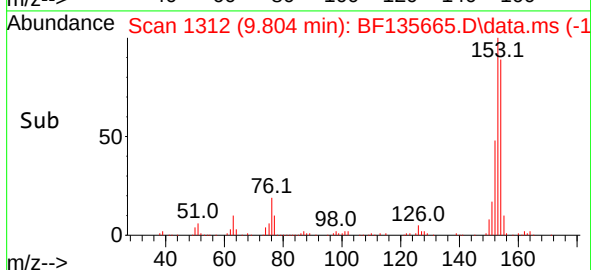
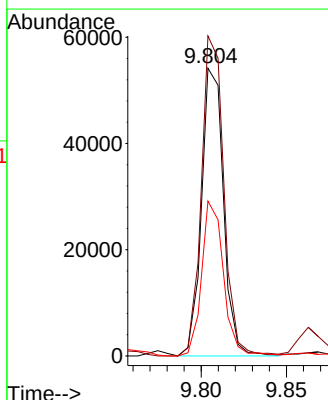
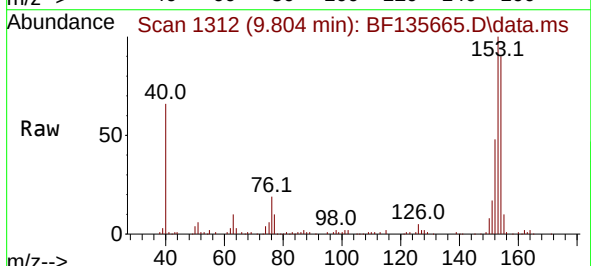
Tgt Ion:154 Resp: 48627

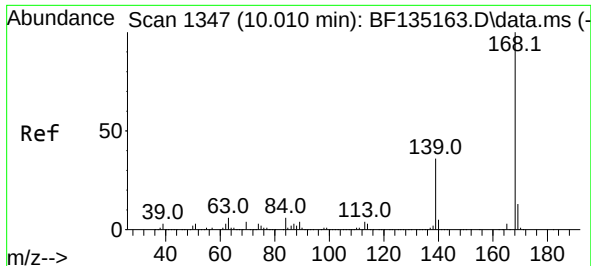
Ion Ratio Lower Upper

154 100

153 111.2 92.1 138.1

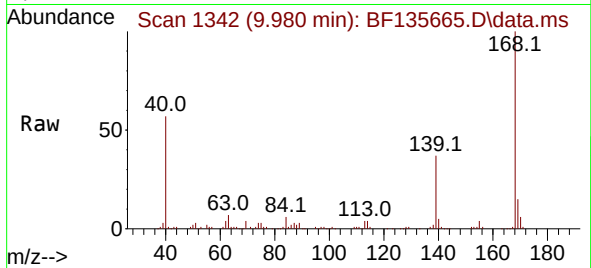
152 53.8 43.1 64.7





#55
Dibenzenofuran
Concen: 3.842 ng
RT: 9.980 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

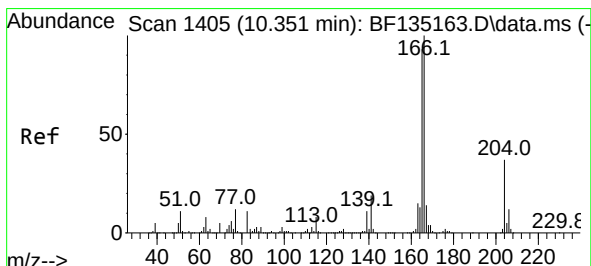
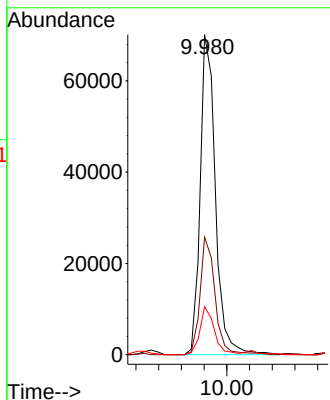
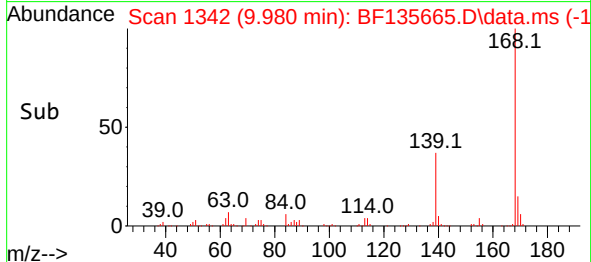
Instrument :
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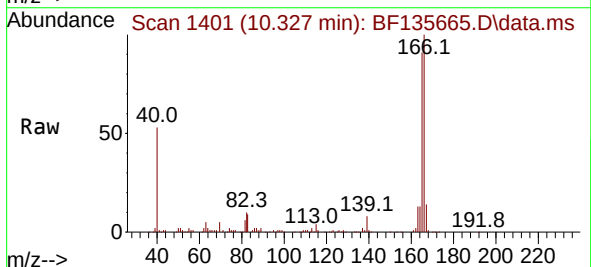
Tgt Ion:168 Resp: 65274
Ion Ratio Lower Upper
168 100
139 36.7 29.0 43.6
169 15.0 10.4 15.6

Manual Integrations
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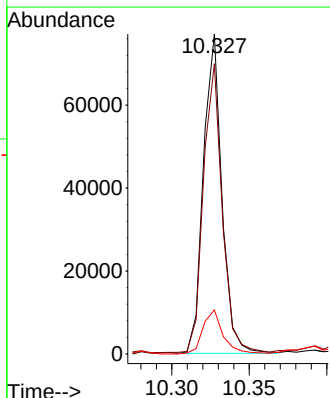
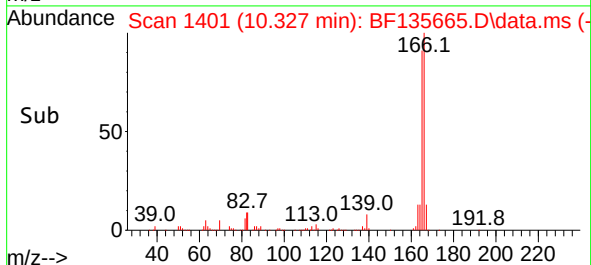
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

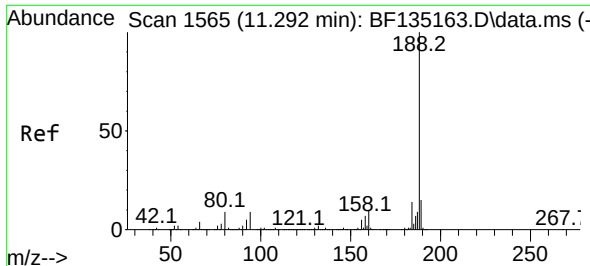


#58
Fluorene
Concen: 4.898 ng
RT: 10.327 min Scan# 1401
Delta R.T. 0.000 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43



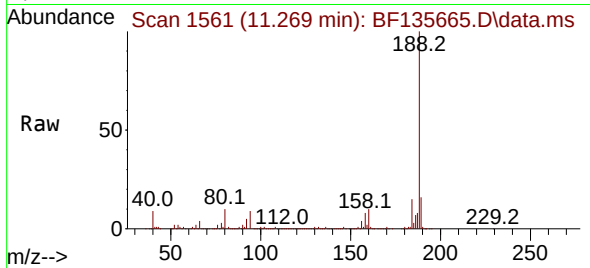
Tgt Ion:166 Resp: 63984
Ion Ratio Lower Upper
166 100
165 90.7 74.3 111.5
167 13.7 10.9 16.3





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.269 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

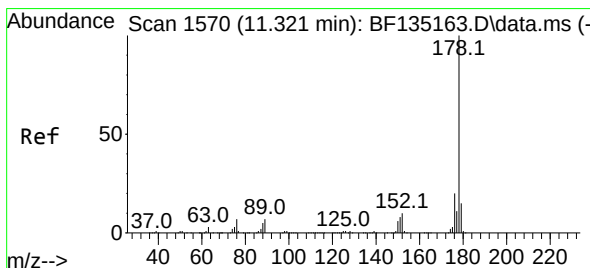
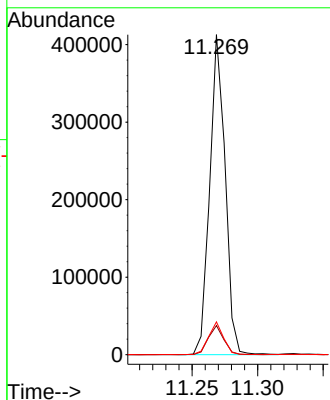
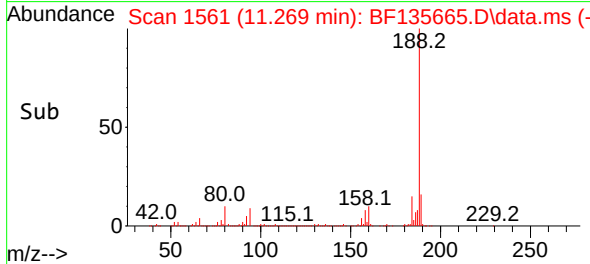
Instrument :
BNA_F
ClientSampleId :
SOIL-1



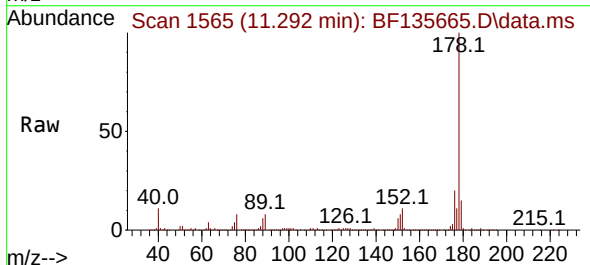
Tgt Ion:188 Resp: 338220
Ion Ratio Lower Upper
188 100
94 9.1 7.0 10.6
80 10.2 7.5 11.3

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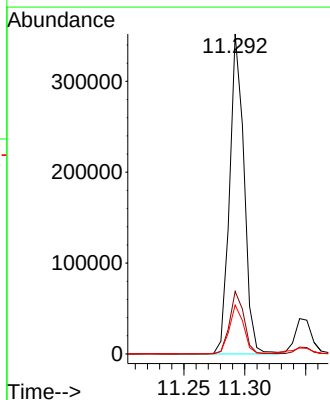
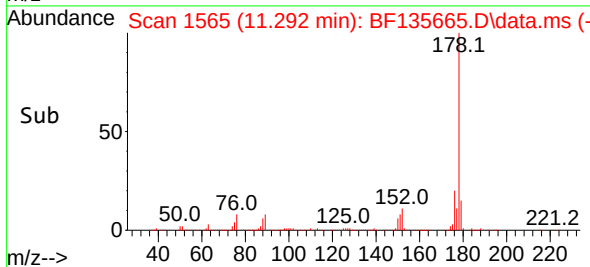
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

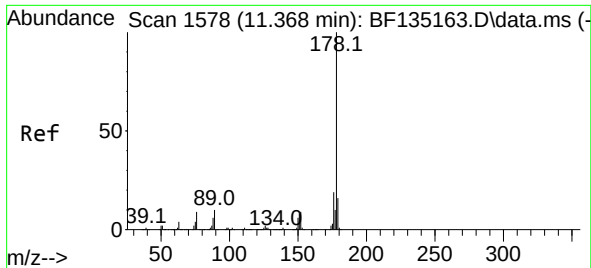


#71
Phenanthrene
Concen: 18.165 ng
RT: 11.292 min Scan# 1565
Delta R.T. 0.000 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43



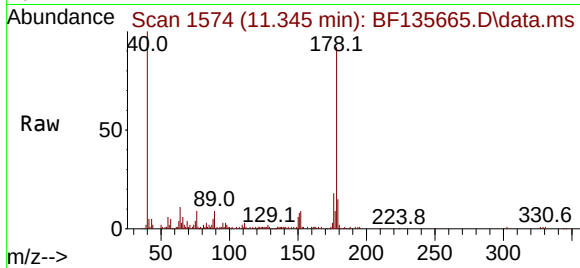
Tgt Ion:178 Resp: 290573
Ion Ratio Lower Upper
178 100
176 19.5 15.6 23.4
179 15.3 12.0 18.0





#72
 Anthracene
 Concen: 2.193 ng
 RT: 11.345 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BF135665.D
 Acq: 09 Oct 2023 22:43

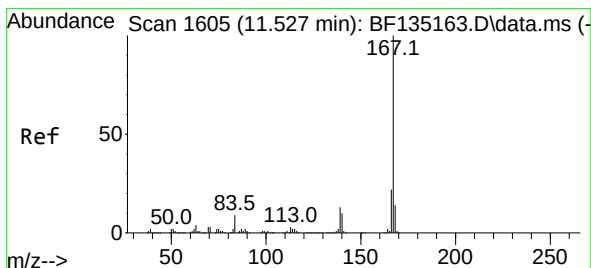
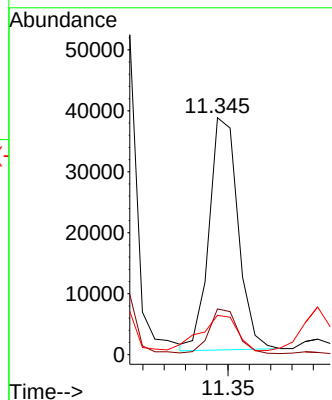
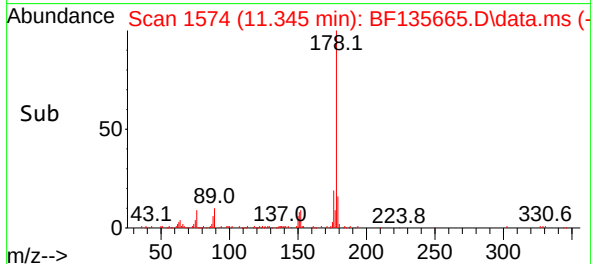
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-1



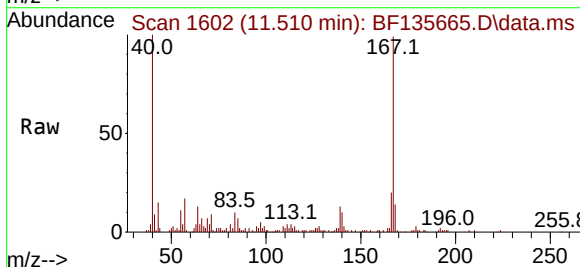
Tgt Ion:178 Resp: 36054
 Ion Ratio Lower Upper
 178 100
 176 19.3 15.4 23.2
 179 16.6 12.6 19.0

Manual Integrations
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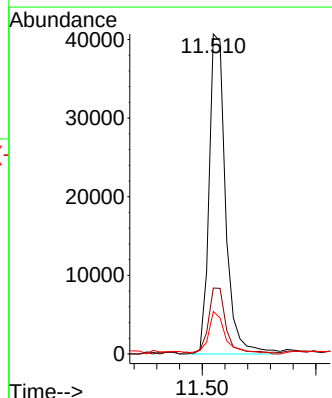
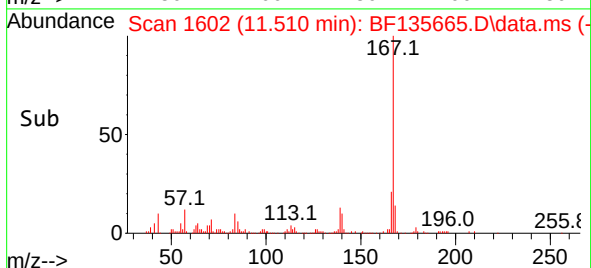
Reviewed By :Yogesh Patel 10/11/2023
 Supervised By :mohammad ahmed 10/11/2023

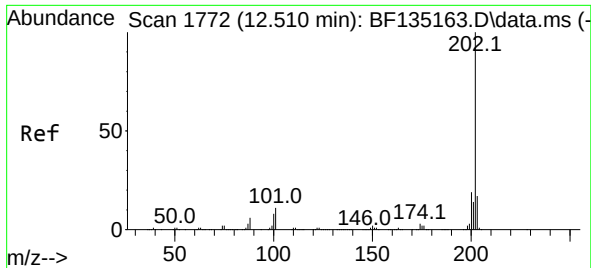


#73
 Carbazole
 Concen: 2.744 ng
 RT: 11.510 min Scan# 1602
 Delta R.T. 0.000 min
 Lab File: BF135665.D
 Acq: 09 Oct 2023 22:43



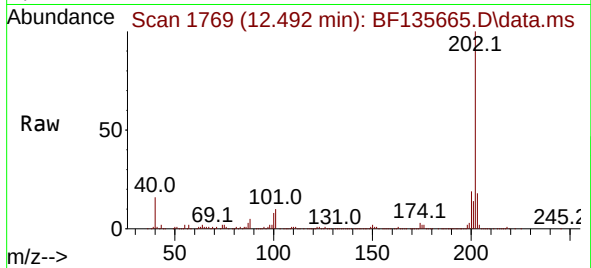
Tgt Ion:167 Resp: 41073
 Ion Ratio Lower Upper
 167 100
 166 20.6 17.4 26.0
 139 13.3 10.6 15.8





#75
Fluoranthene
Concen: 12.157 ng
RT: 12.492 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

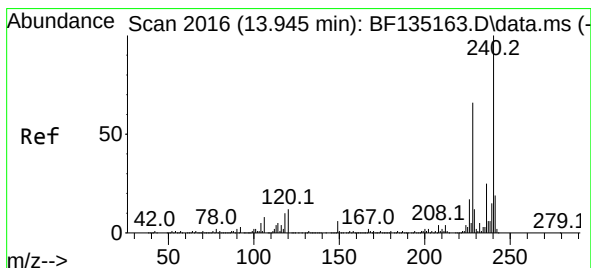
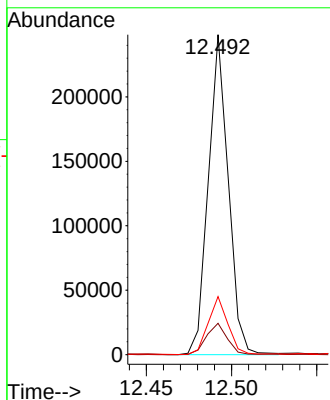
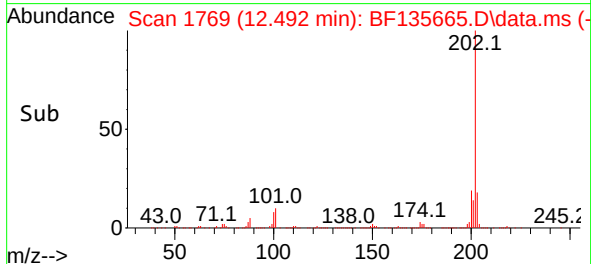
Instrument :
BNA_F
ClientSampleId :
SOIL-1



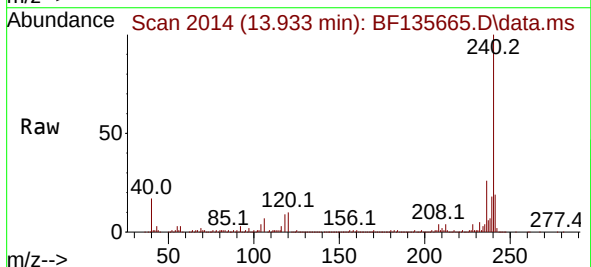
Tgt Ion:202 Resp: 202629
Ion Ratio Lower Upper
202 100
101 9.8 0.0 31.3
203 18.2 0.0 37.4

Manual Integrations
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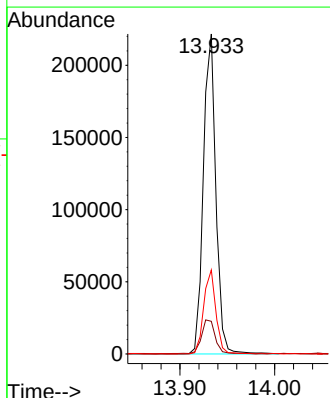
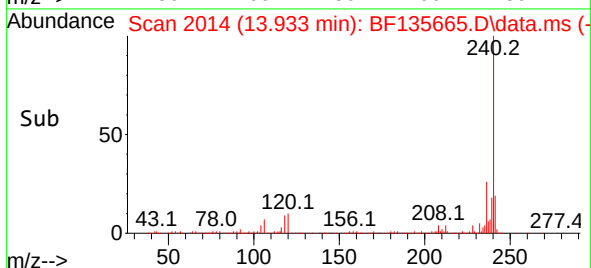
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

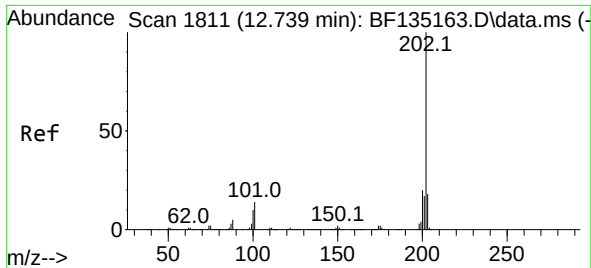


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.933 min Scan# 2014
Delta R.T. 0.006 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43



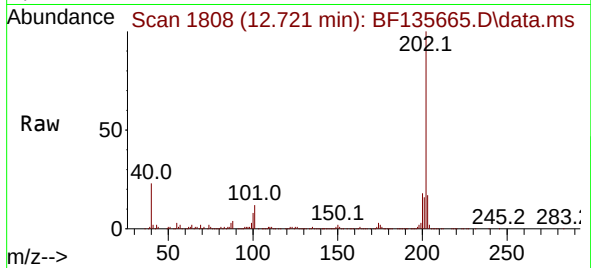
Tgt Ion:240 Resp: 202522
Ion Ratio Lower Upper
240 100
120 10.2 9.4 14.2
236 26.3 19.8 29.8





#78
Pyrene
Concen: 7.776 ng
RT: 12.721 min Scan# 1808
Delta R.T. 0.006 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

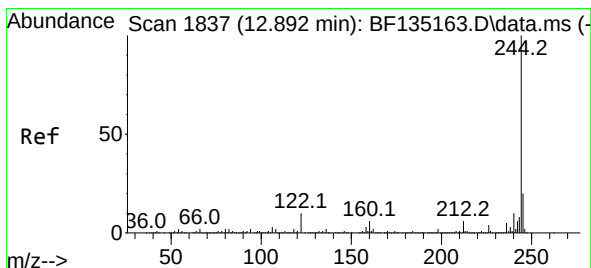
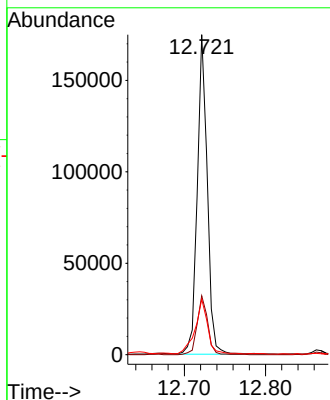
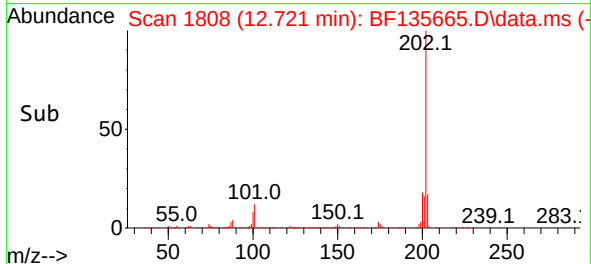
Instrument :
BNA_F
ClientSampleId :
SOIL-1



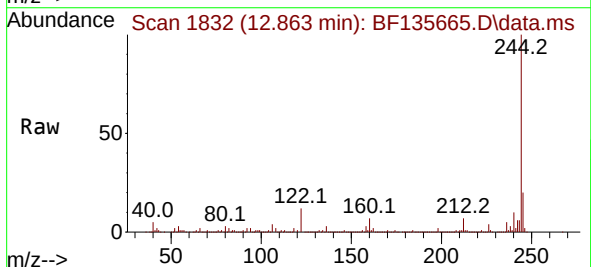
Tgt Ion:202 Resp: 14993
Ion Ratio Lower Upper
202 100
200 18.4 16.2 24.2
203 17.4 14.2 21.4

Manual Integrations
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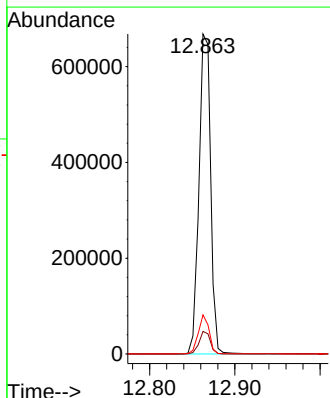
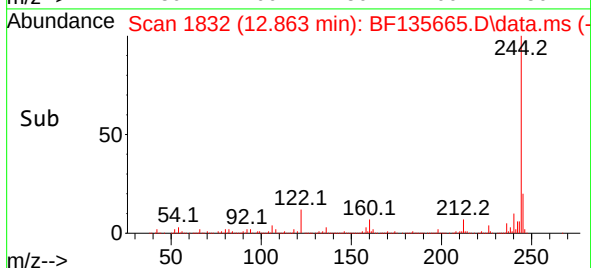
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

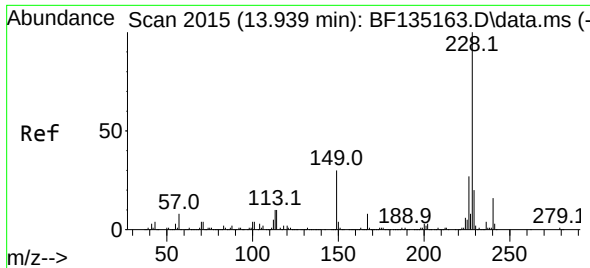


#79
Terphenyl-d14
Concen: 48.777 ng
RT: 12.863 min Scan# 1832
Delta R.T. 0.000 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43



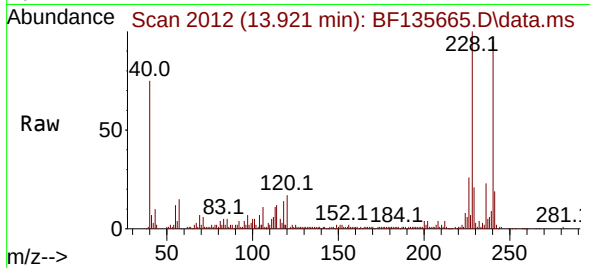
Tgt Ion:244 Resp: 637244
Ion Ratio Lower Upper
244 100
212 7.0 5.1 7.7
122 12.2 7.9 11.9#





#81
Benzo(a)anthracene
Concen: 3.674 ng
RT: 13.921 min Scan# 2012
Delta R.T. 0.006 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

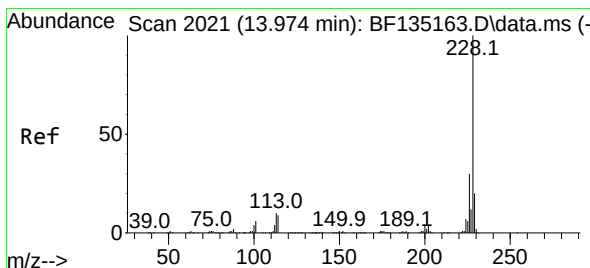
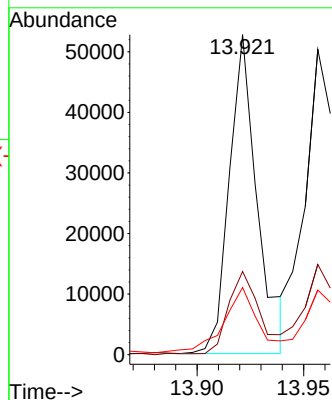
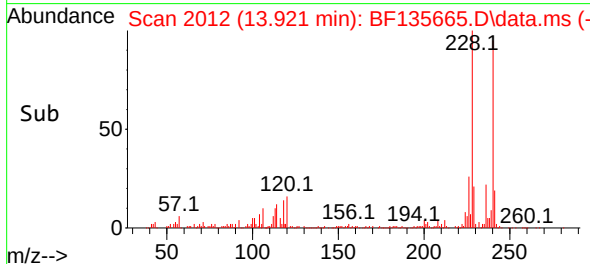
Instrument :
BNA_F
ClientSampleId :
SOIL-1



Tgt Ion:228 Resp: 48049
Ion Ratio Lower Upper
228 100
226 26.0 21.7 32.5
229 21.0 15.8 23.8

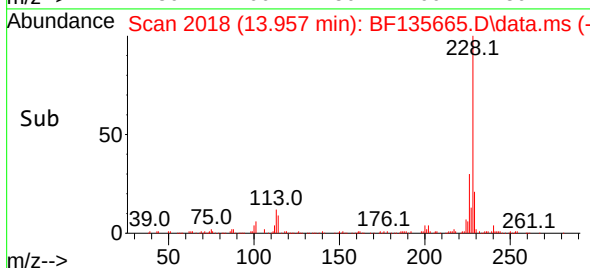
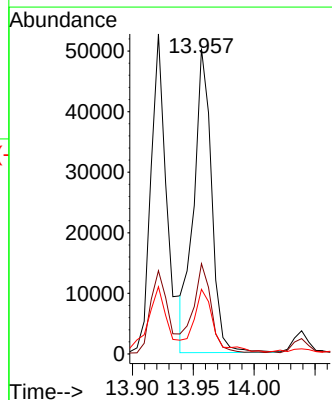
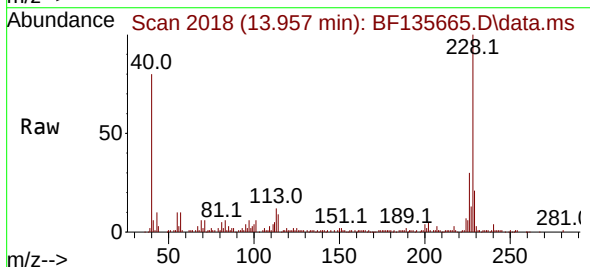
Manual Integrations
APPROVED

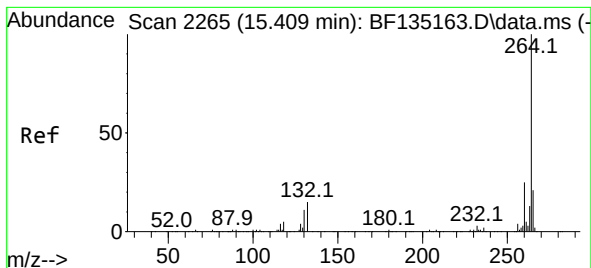
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023



#83
Chrysene
Concen: 3.929 ng
RT: 13.957 min Scan# 2018
Delta R.T. 0.006 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

Tgt Ion:228 Resp: 51086
Ion Ratio Lower Upper
228 100
226 29.6 24.3 36.5
229 21.2 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.404 min Scan# 21910

Delta R.T. 0.018 min

Lab File: BF135665.D

Acq: 09 Oct 2023 22:43

Instrument :

BNA_F

ClientSampleId :

SOIL-1

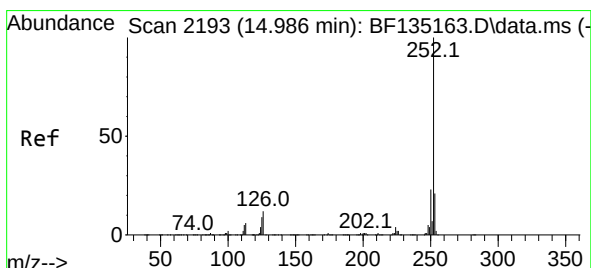
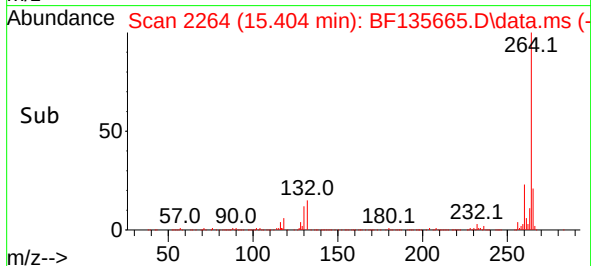
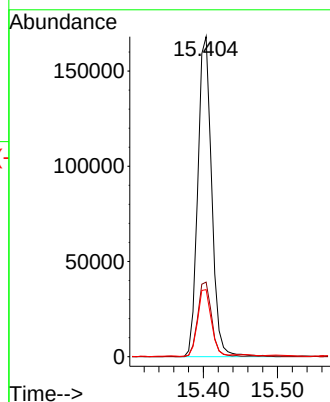
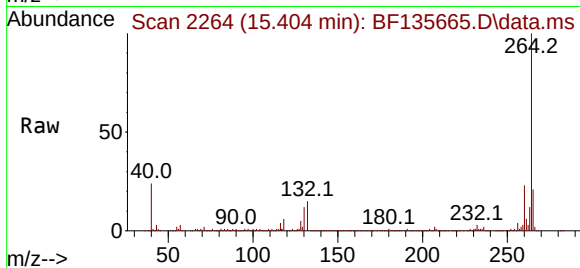
Tgt Ion:264	Resp:	21910
Ion Ratio	Lower	Upper
264	100	
260	23.3	19.8 29.6
265	20.9	17.0 25.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/11/2023

Supervised By :mohammad ahmed 10/11/2023



#88

Benzo(b)fluoranthene

Concen: 4.665 ng m

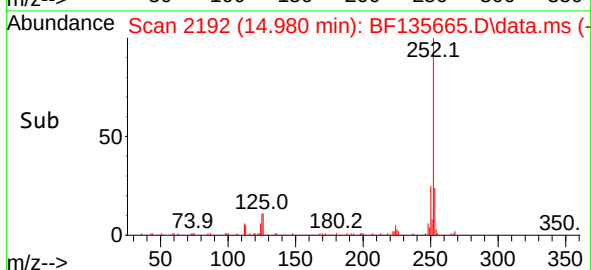
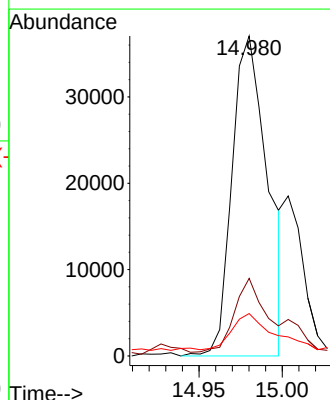
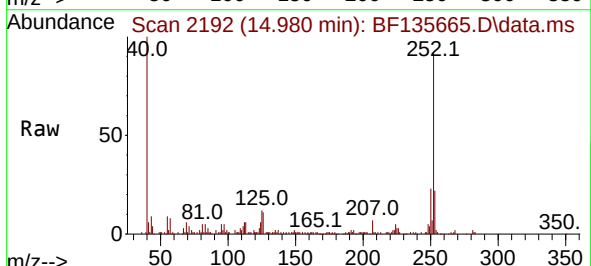
RT: 14.980 min Scan# 2192

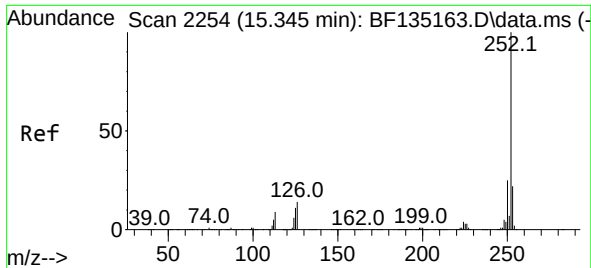
Delta R.T. 0.018 min

Lab File: BF135665.D

Acq: 09 Oct 2023 22:43

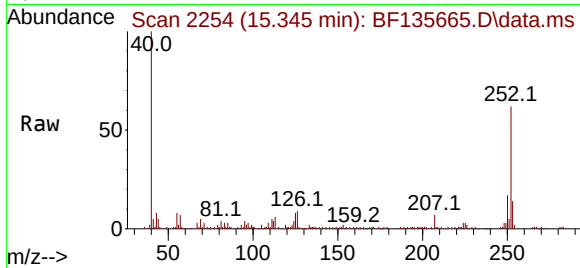
Tgt Ion:252	Resp:	55330
Ion Ratio	Lower	Upper
252	100	
253	24.2	17.2 25.8
125	13.3	7.1 10.7#





#90
Benzo(a)pyrene
Concen: 2.704 ng
RT: 15.345 min Scan# 21
Delta R.T. 0.018 min
Lab File: BF135665.D
Acq: 09 Oct 2023 22:43

Instrument :
BNA_F
ClientSampleId :
SOIL-1



Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.5	26.3
125	12.3	9.2	13.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

