

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
 Data File : BF135657.D
 Acq On : 09 Oct 2023 18:36
 Operator : CG\JU
 Sample : 04787-01
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-10052023

Manual Integrations
 APPROVED

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

Quant Time: Oct 09 19:13:32 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	6.740	152	124163	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	460711	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	208978	20.000	ng	0.00
64) Phenanthrene-d10	11.269	188	332846	20.000	ng	0.00
76) Chrysene-d12	13.933	240	205860	20.000	ng	0.00
86) Perylene-d12	15.404	264	196125	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	745778	97.692	ng	0.00
7) Phenol-d6	6.387	99	920272	94.804	ng	0.00
23) Nitrobenzene-d5	7.304	82	552669	65.174	ng	0.00
42) 2,4,6-Tribromophenol	10.575	330	165574	79.728	ng	0.00
45) 2-Fluorobiphenyl	9.098	172	917287	66.224	ng	0.00
79) Terphenyl-d14	12.869	244	667223	50.244	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.040	128	275165	12.293	ng	98
37) 2-Methylnaphthalene	8.734	142	161522	10.735	ng	97
38) 1-Methylnaphthalene	8.828	142	120093	8.525	ng	94
49) Acenaphthylene	9.639	152	44084	2.276	ng	# 92
52) Acenaphthene	9.810	154	91835	8.028	ng	98
55) Dibenzofuran	9.981	168	137058	7.851	ng	# 94
58) Fluorene	10.328	166	209407	15.604	ng	98
71) Phenanthrene	11.298	178	984184	62.519	ng	99
72) Anthracene	11.345	178	278342	17.201	ng	98
73) Carbazole	11.516	167	50945	3.459	ng	99
75) Fluoranthene	12.498	202	1081864	65.954	ng	98
78) Pyrene	12.727	202	1018250	51.953	ng	100
81) Benzo(a)anthracene	13.922	228	466842	35.120	ng	98
83) Chrysene	13.963	228	416846	31.540	ng	98
87) Indeno(1,2,3-cd)pyrene	16.898	276	145728	11.333	ng	97
88) Benzo(b)fluoranthene	14.980	252	422639m	39.808	ng	
89) Benzo(k)fluoranthene	15.004	252	138848m	13.239	ng	
90) Benzo(a)pyrene	15.345	252	305074	30.132	ng	98
91) Dibenzo(a,h)anthracene	16.904	278	38563	3.665	ng	# 90
92) Benzo(g,h,i)perylene	17.351	276	133934	12.189	ng	98

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

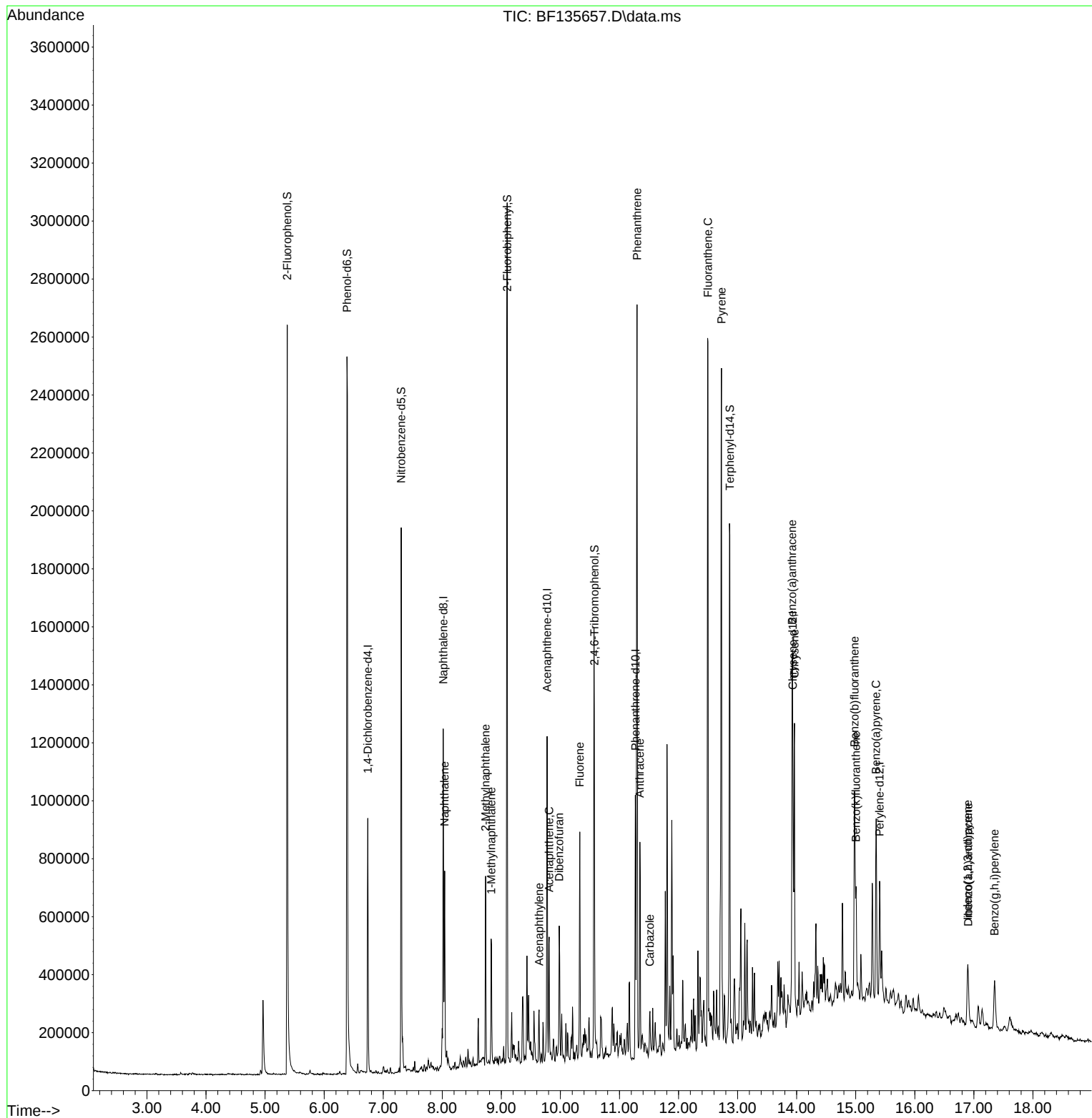
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100923\
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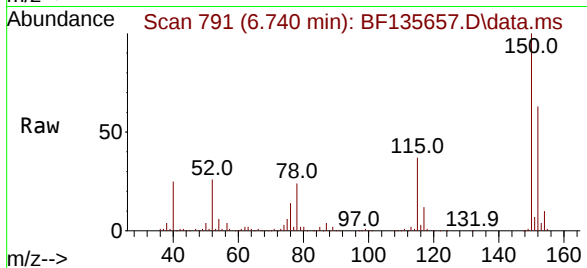
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1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.740 min Scan# 795
Delta R.T. 0.001 min
Lab File: BF135657.D
Acq: 09 Oct 2023 18:36

Instrument :

BNA_F

ClientSampleId :

PL-02-10052023

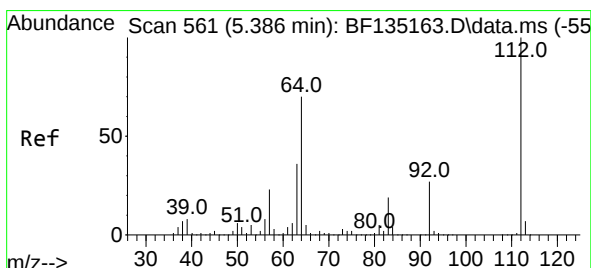
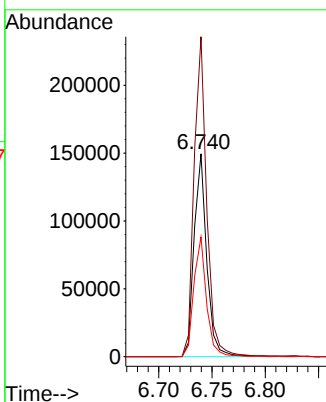
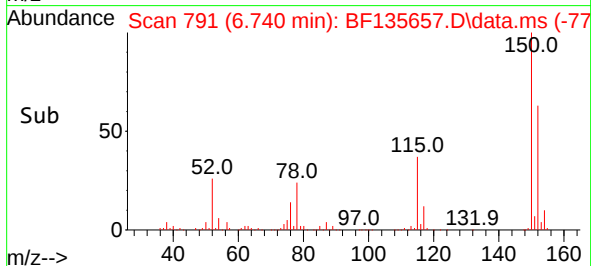


Tgt Ion:152 Resp: 12416
Ion Ratio Lower Upper
152 100
150 157.7 127.8 191.6
115 59.0 49.8 74.8

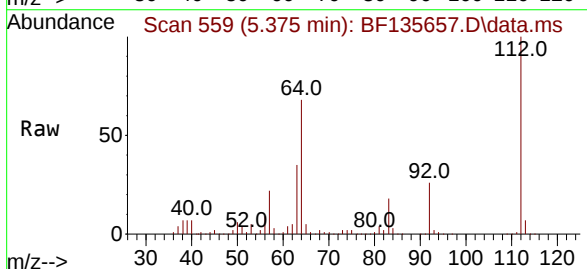
Manual Integrations

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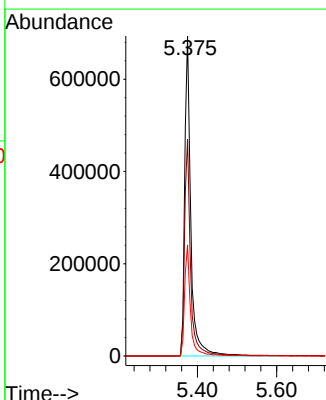
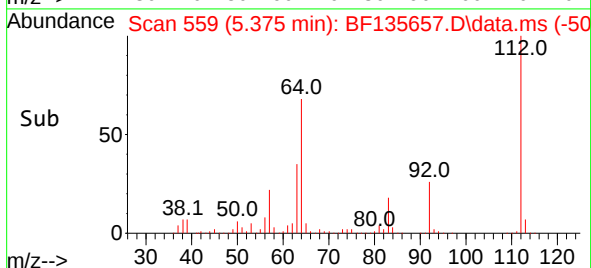
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

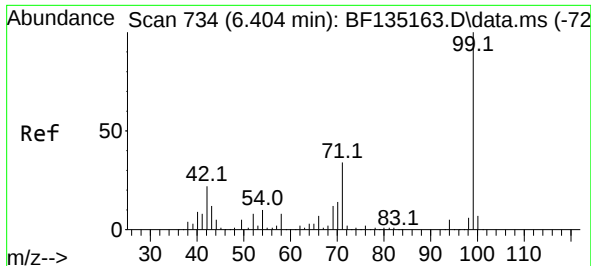


#5
2-Fluorophenol
Concen: 97.692 ng
RT: 5.375 min Scan# 559
Delta R.T. 0.006 min
Lab File: BF135657.D
Acq: 09 Oct 2023 18:36



Tgt Ion:112 Resp: 745778
Ion Ratio Lower Upper
112 100
64 67.8 55.9 83.9
63 34.7 29.0 43.6





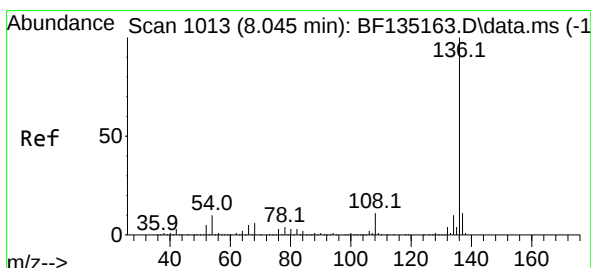
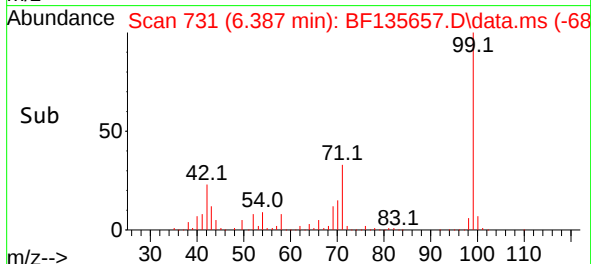
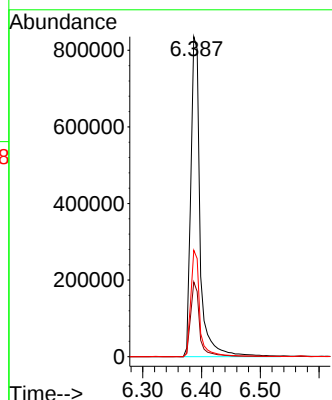
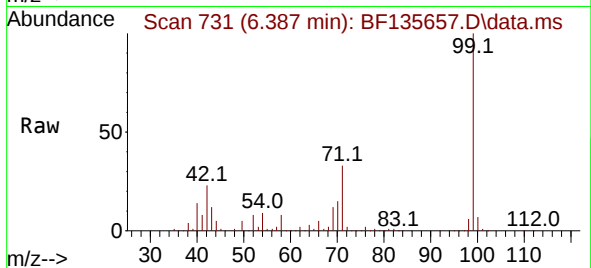
#7
Phenol-d6
Concen: 94.804 ng
RT: 6.387 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF135657.D
Acq: 09 Oct 2023 18:36

Instrument :
BNA_F
ClientSampleId :
PL-02-10052023

Tgt Ion: 99 Resp: 920272
Ion Ratio Lower Upper
99 100
42 23.4 17.9 26.9
71 33.3 27.0 40.6

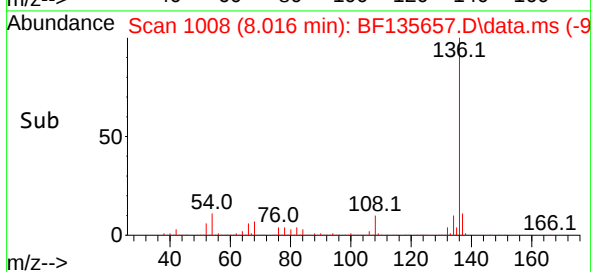
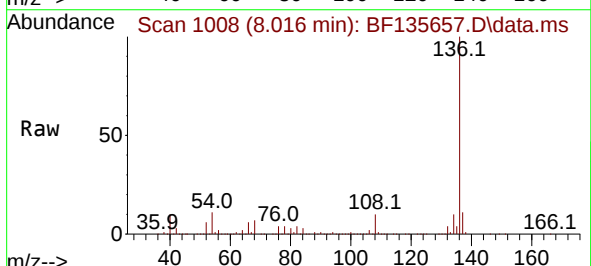
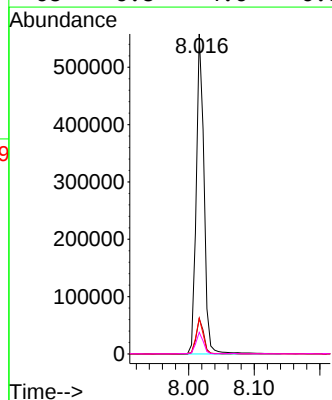
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Supervised By :mohammad ahmed 10/11/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BF135657.D
Acq: 09 Oct 2023 18:36

Tgt Ion:136 Resp: 460711
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 11.1 7.7 11.5
68 6.8 4.6 6.8





#23

Nitrobenzene-d5

Concen: 65.174 ng

RT: 7.304 min Scan# 887

Delta R.T. -0.006 min

Lab File: BF135657.D

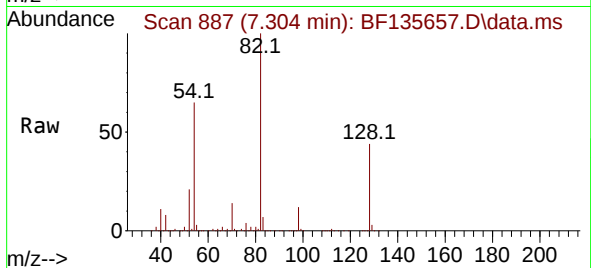
Acq: 09 Oct 2023 18:36

Instrument :

BNA_F

ClientSampleId :

PL-02-10052023



Tgt Ion: 82 Resp: 55266

Ion Ratio Lower Upper

82 100

128 44.3 35.8 53.6

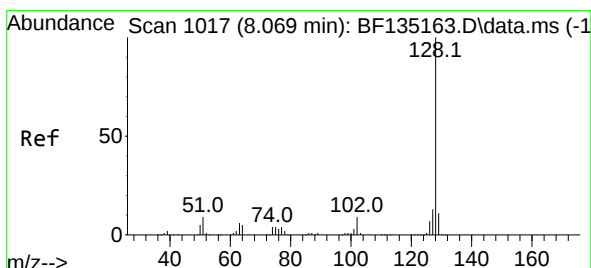
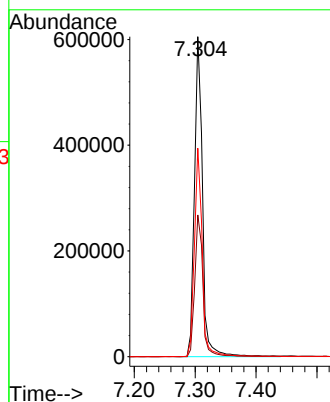
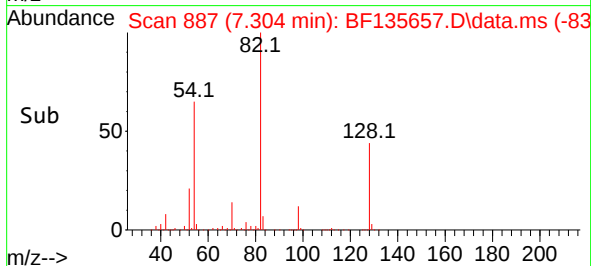
54 65.2 50.6 76.0

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#31

Naphthalene

Concen: 12.293 ng

RT: 8.040 min Scan# 1012

Delta R.T. 0.000 min

Lab File: BF135657.D

Acq: 09 Oct 2023 18:36

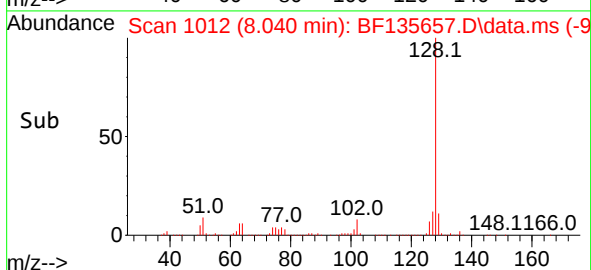
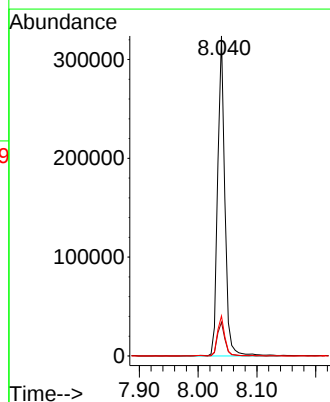
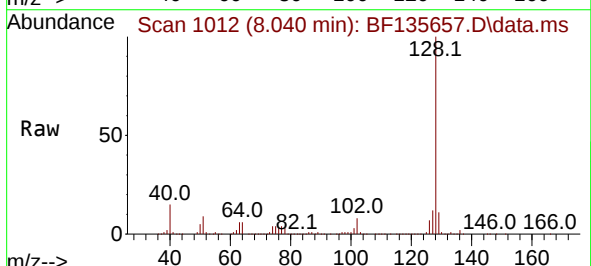
Tgt Ion:128 Resp: 275165

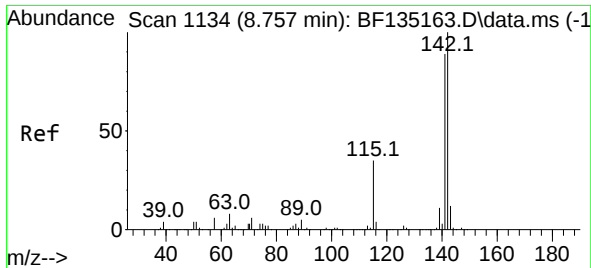
Ion Ratio Lower Upper

128 100

129 10.6 8.7 13.1

127 12.5 10.7 16.1





#37

2-Methylnaphthalene

Concen: 10.735 ng

RT: 8.734 min Scan# 1134

Delta R.T. 0.000 min

Lab File: BF135657.D

Acq: 09 Oct 2023 18:36

Instrument :

BNA_F

ClientSampleId :

PL-02-10052023

Tgt Ion:142 Resp: 16152

Ion Ratio Lower Upper

142 100

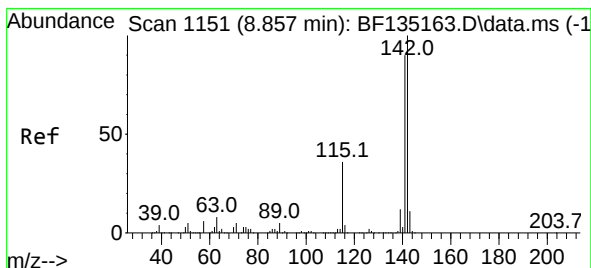
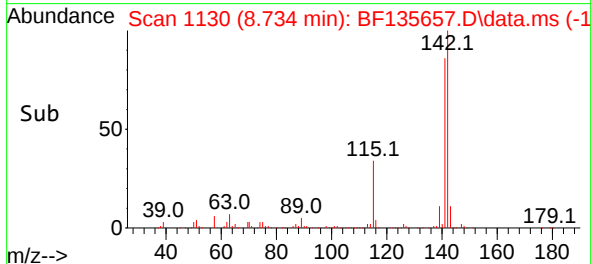
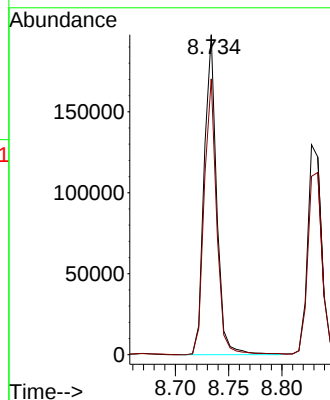
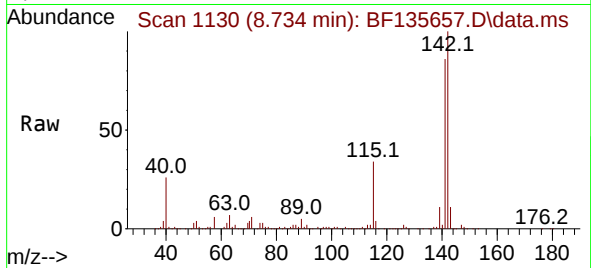
141 86.2 71.0 106.6

Manual Integrations

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Supervised By :mohammad ahmed 10/11/2023



#38

1-Methylnaphthalene

Concen: 8.525 ng

RT: 8.828 min Scan# 1146

Delta R.T. 0.000 min

Lab File: BF135657.D

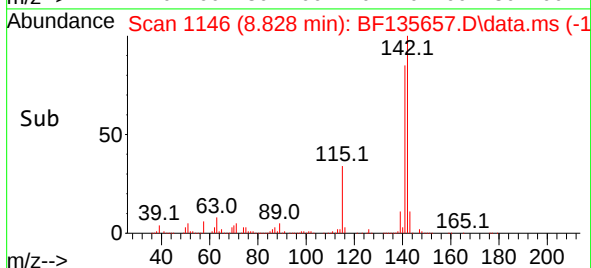
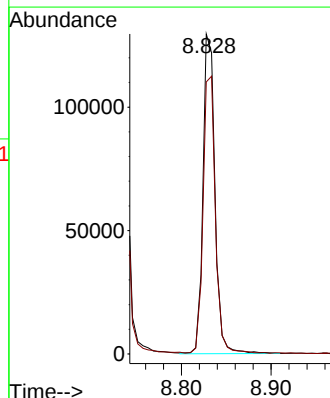
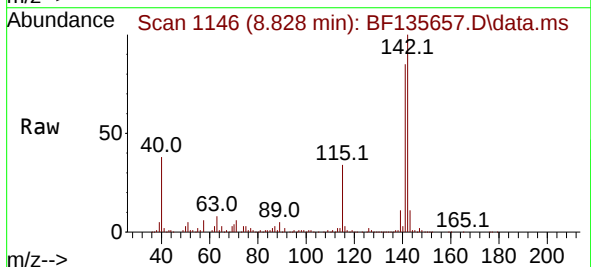
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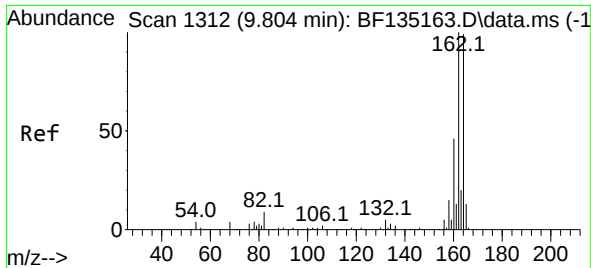
Tgt Ion:142 Resp: 120093

Ion Ratio Lower Upper

142 100

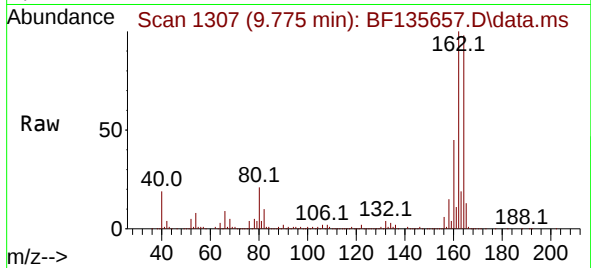
141 85.0 72.4 108.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.775 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF135657.D
Acq: 09 Oct 2023 18:36

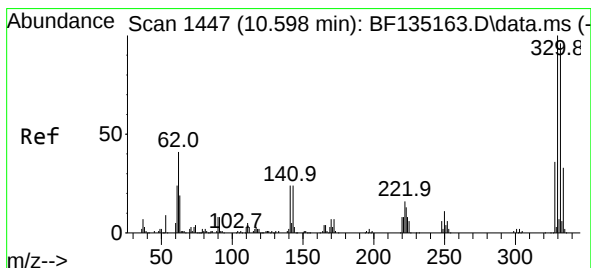
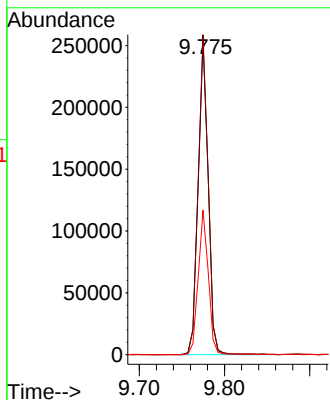
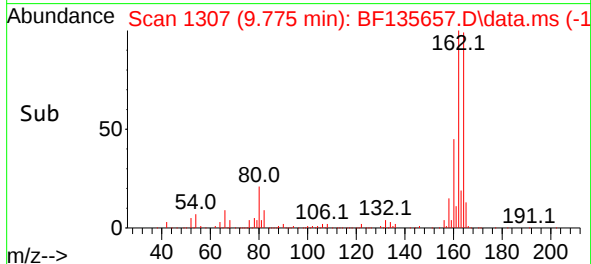
Instrument :
BNA_F
ClientSampleId :
PL-02-10052023



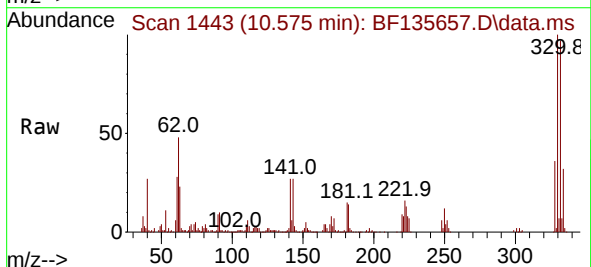
Tgt Ion:164 Resp: 208978
Ion Ratio Lower Upper
164 100
162 101.9 81.0 121.4
160 46.0 37.0 55.4

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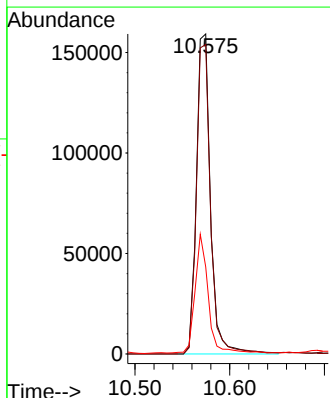
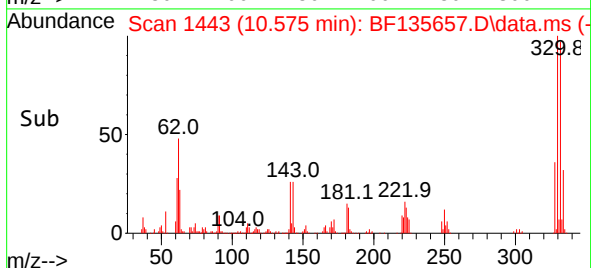
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

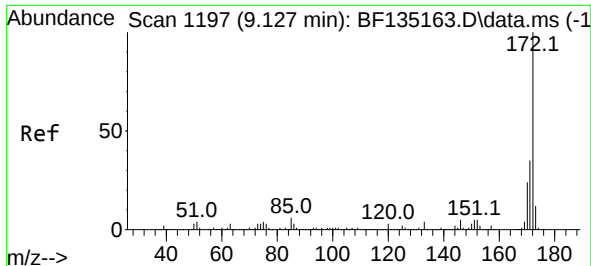


#42
2,4,6-Tribromophenol
Concen: 79.728 ng
RT: 10.575 min Scan# 1443
Delta R.T. 0.006 min
Lab File: BF135657.D
Acq: 09 Oct 2023 18:36



Tgt Ion:330 Resp: 165574
Ion Ratio Lower Upper
330 100
332 96.8 77.3 115.9
141 34.3 25.8 38.8





#45

2-Fluorobiphenyl

Concen: 66.224 ng

RT: 9.098 min Scan# 1197

Delta R.T. 0.000 min

Lab File: BF135657.D

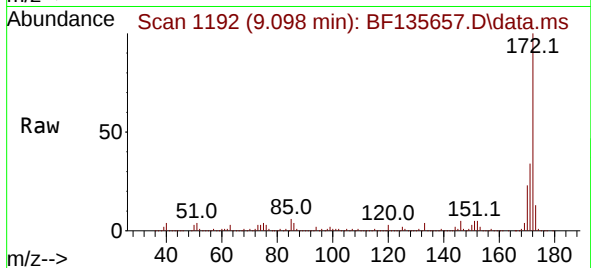
Acq: 09 Oct 2023 18:36

Instrument :

BNA_F

ClientSampleId :

PL-02-10052023



Tgt Ion:172 Resp: 91728

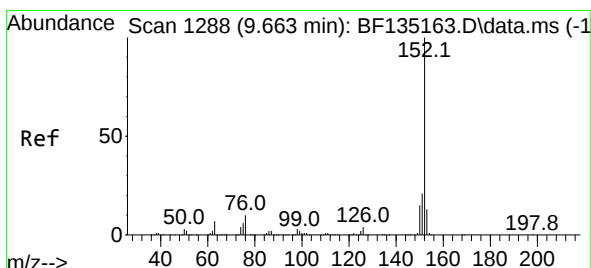
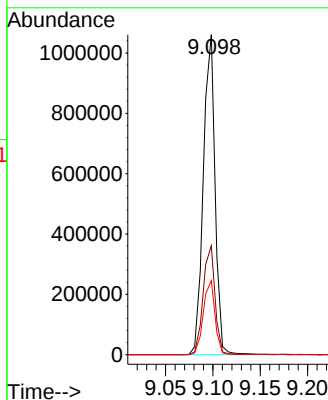
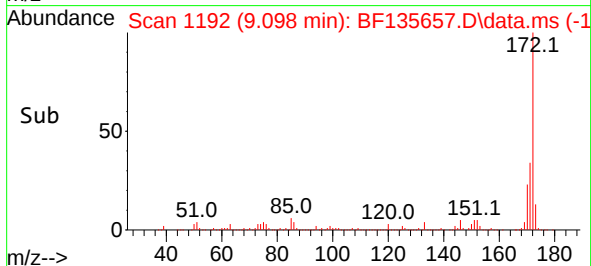
Ion	Ratio	Lower	Upper
172	100		
171	34.1	28.4	42.6
170	23.1	19.0	28.4

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#49

Acenaphthylene

Concen: 2.276 ng

RT: 9.639 min Scan# 1284

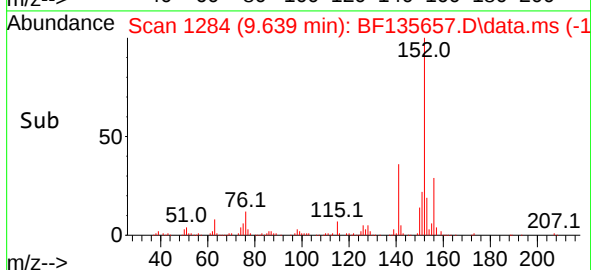
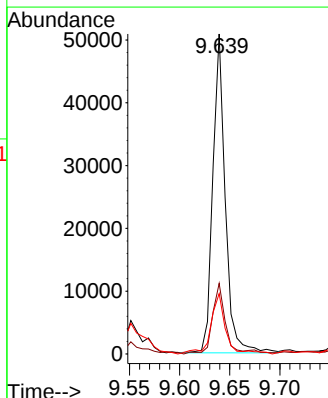
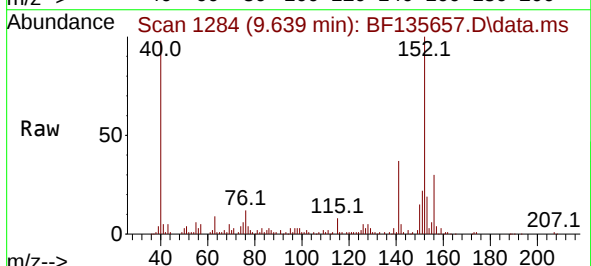
Delta R.T. 0.000 min

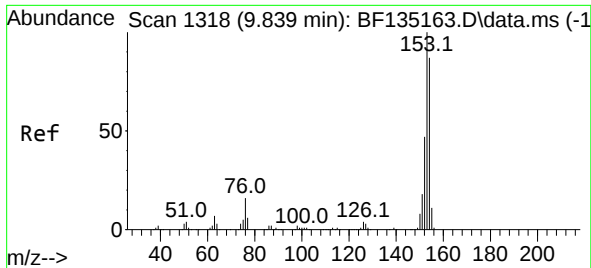
Lab File: BF135657.D

Acq: 09 Oct 2023 18:36

Tgt Ion:152 Resp: 44084

Ion	Ratio	Lower	Upper
152	100		
151	22.1	16.4	24.6
153	18.9	10.4	15.6





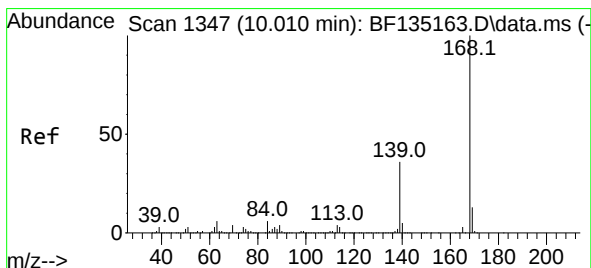
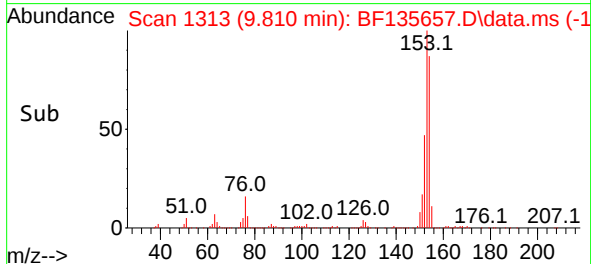
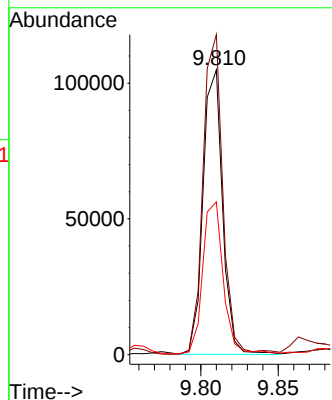
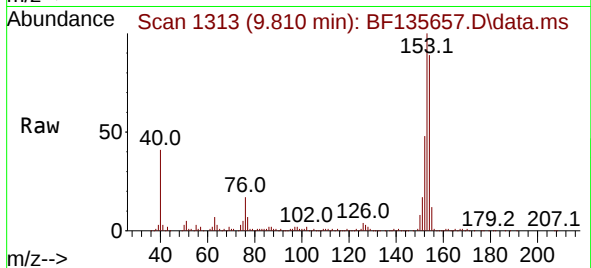
#52
Acenaphthene
Concen: 8.028 ng
RT: 9.810 min Scan# 1318
Delta R.T. 0.000 min
Lab File: BF135657.D
Acq: 09 Oct 2023 18:36

Instrument :
BNA_F
ClientSampleId :
PL-02-10052023

Tgt Ion:154 Resp: 91835
Ion Ratio Lower Upper
154 100
153 112.4 92.1 138.1
152 53.7 43.1 64.7

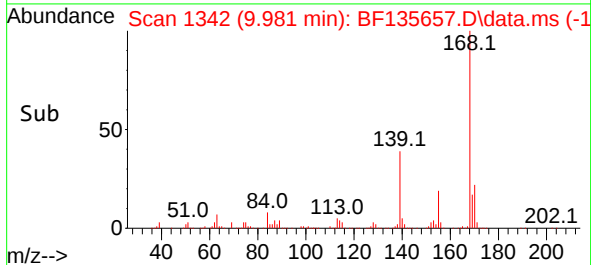
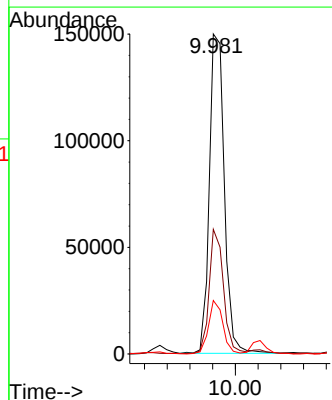
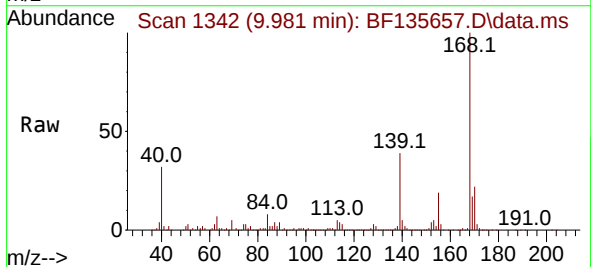
Manual Integrations
APPROVED

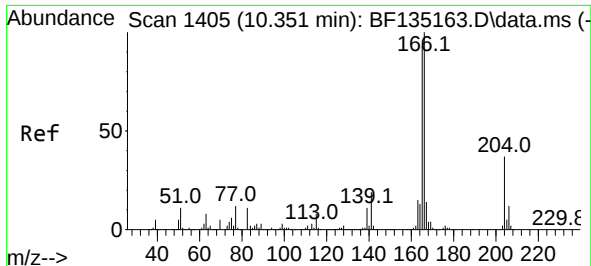
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023



#55
Dibenzofuran
Concen: 7.851 ng
RT: 9.981 min Scan# 1342
Delta R.T. 0.000 min
Lab File: BF135657.D
Acq: 09 Oct 2023 18:36

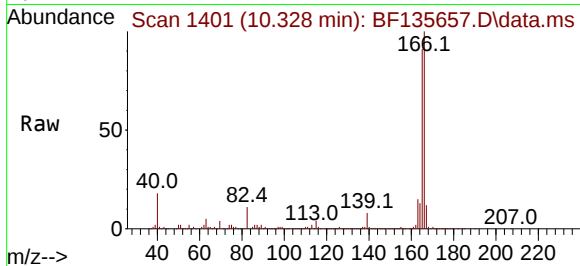
Tgt Ion:168 Resp: 137058
Ion Ratio Lower Upper
168 100
139 38.9 29.0 43.6
169 16.7 10.4 15.6#





#58
Fluorene
Concen: 15.604 ng
RT: 10.328 min Scan# 1405
Delta R.T. 0.000 min
Lab File: BF135657.D
Acq: 09 Oct 2023 18:36

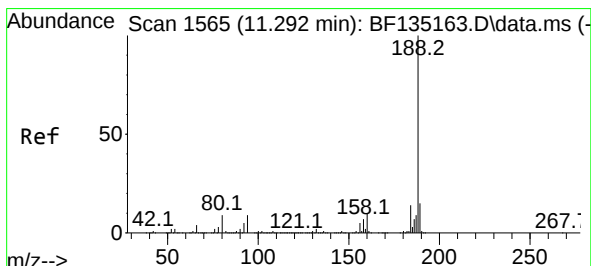
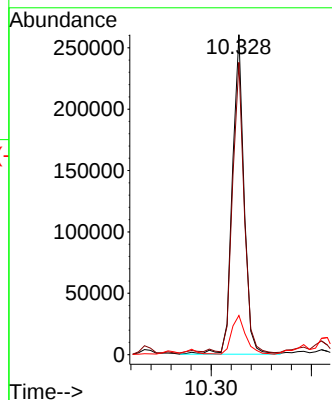
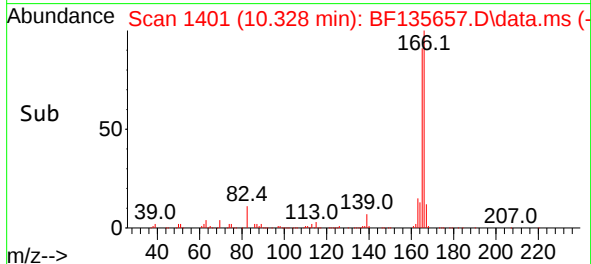
Instrument :
BNA_F
ClientSampleId :
PL-02-10052023



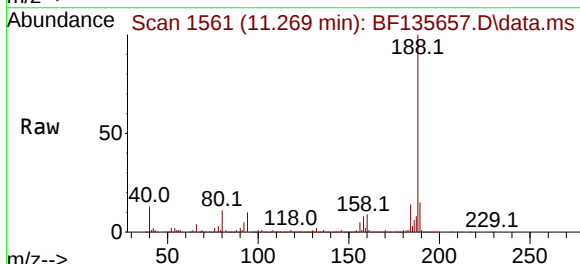
Tgt Ion:166 Resp: 20940
Ion Ratio Lower Upper
166 100
165 91.4 74.3 111.5
167 12.2 10.9 16.3

Manual Integrations
APPROVED

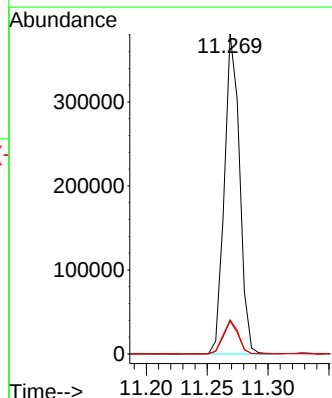
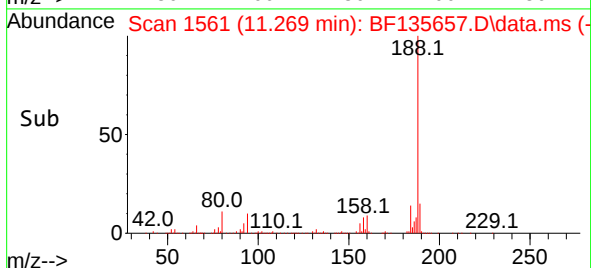
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023

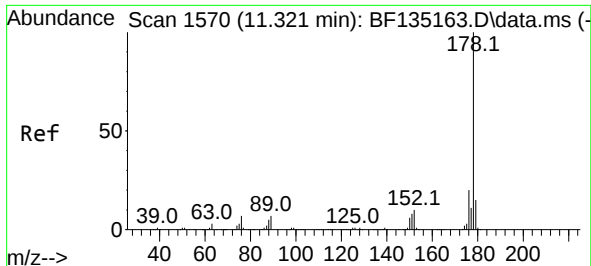


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.269 min Scan# 1561
Delta R.T. 0.000 min
Lab File: BF135657.D
Acq: 09 Oct 2023 18:36



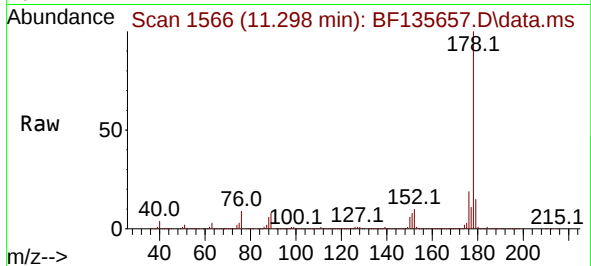
Tgt Ion:188 Resp: 332846
Ion Ratio Lower Upper
188 100
94 10.3 7.0 10.6
80 10.6 7.5 11.3





#71
Phenanthrene
Concen: 62.519 ng
RT: 11.298 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF135657.D
Acq: 09 Oct 2023 18:36

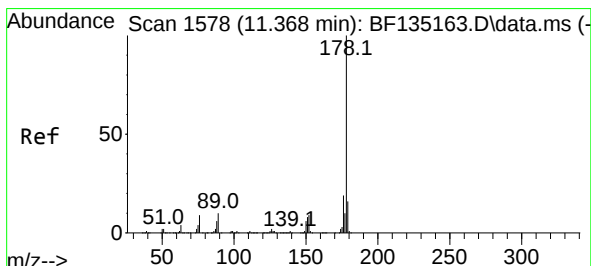
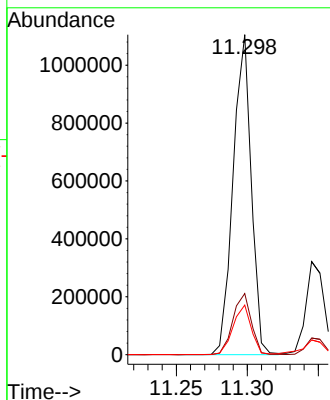
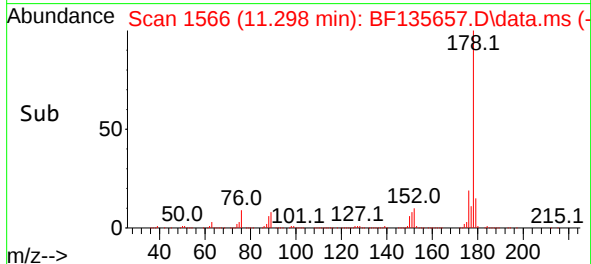
Instrument :
BNA_F
ClientSampleId :
PL-02-10052023



Tgt Ion:178 Resp: 984184
Ion Ratio Lower Upper
178 100
176 19.1 15.6 23.4
179 15.5 12.0 18.0

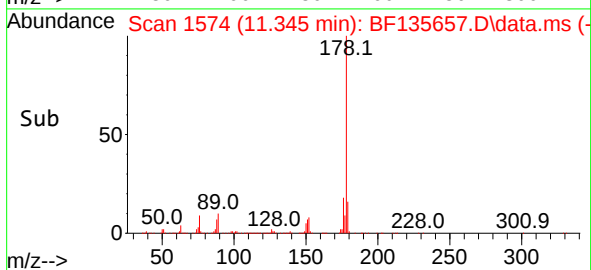
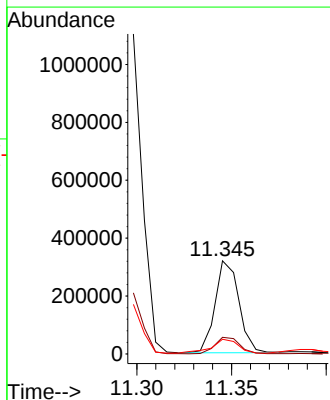
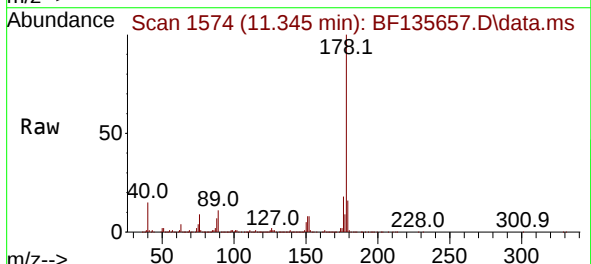
Manual Integrations
APPROVED

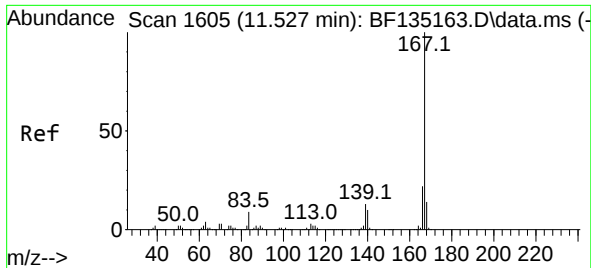
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023



#72
Anthracene
Concen: 17.201 ng
RT: 11.345 min Scan# 1574
Delta R.T. 0.000 min
Lab File: BF135657.D
Acq: 09 Oct 2023 18:36

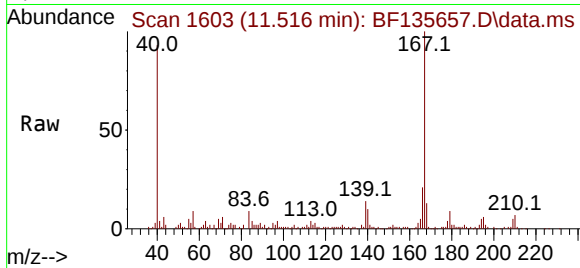
Tgt Ion:178 Resp: 278342
Ion Ratio Lower Upper
178 100
176 17.9 15.4 23.2
179 15.9 12.6 19.0





#73
 Carbazole
 Concen: 3.459 ng
 RT: 11.516 min Scan# 1603
 Delta R.T. 0.006 min
 Lab File: BF135657.D
 Acq: 09 Oct 2023 18:36

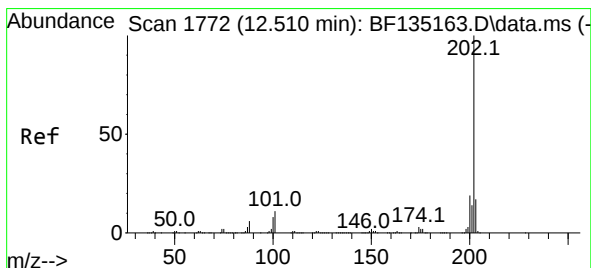
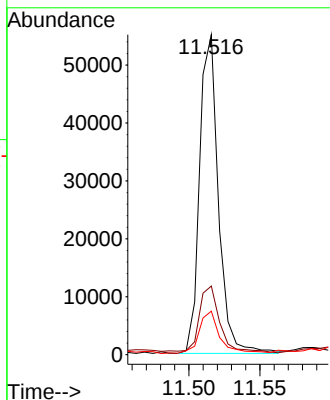
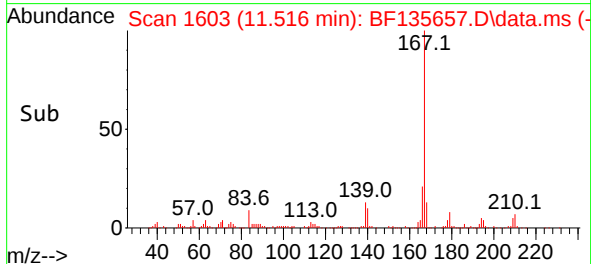
Instrument :
 BNA_F
 ClientSampleId :
 PL-02-10052023



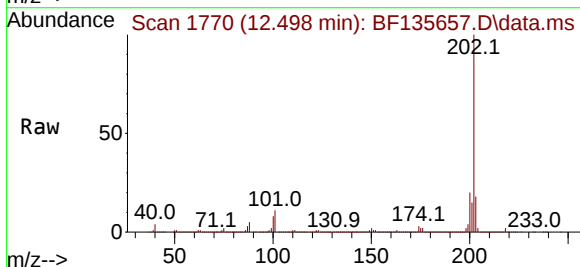
Tgt Ion:167 Resp: 5094
 Ion Ratio Lower Upper
 167 100
 166 21.5 17.4 26.0
 139 13.6 10.6 15.8

Manual Integrations
 APPROVED

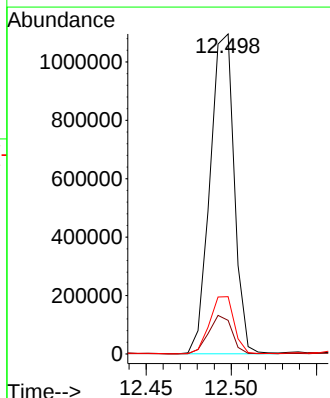
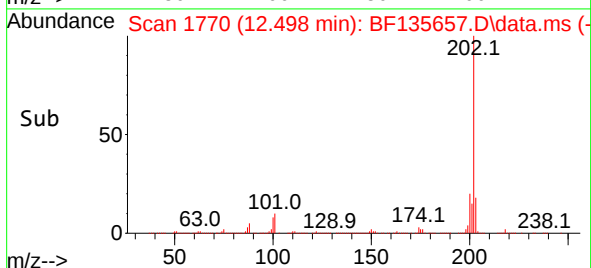
Reviewed By :Yogesh Patel 10/11/2023
 Supervised By :mohammad ahmed 10/11/2023

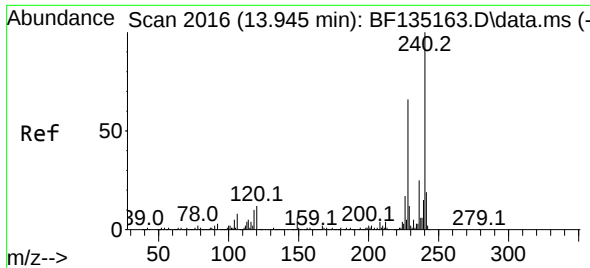


#75
 Fluoranthene
 Concen: 65.954 ng
 RT: 12.498 min Scan# 1770
 Delta R.T. 0.012 min
 Lab File: BF135657.D
 Acq: 09 Oct 2023 18:36



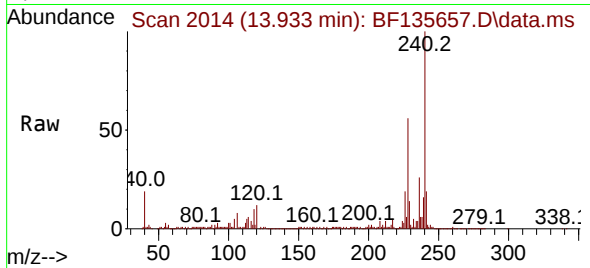
Tgt Ion:202 Resp: 1081864
 Ion Ratio Lower Upper
 202 100
 101 10.5 0.0 31.3
 203 17.9 0.0 37.4





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.933 min Scan# 2016
Delta R.T. 0.006 min
Lab File: BF135657.D
Acq: 09 Oct 2023 18:36

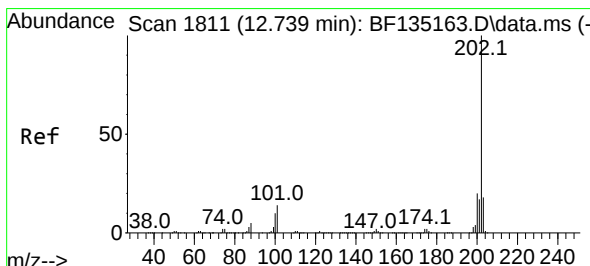
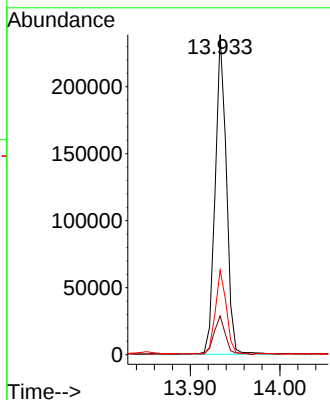
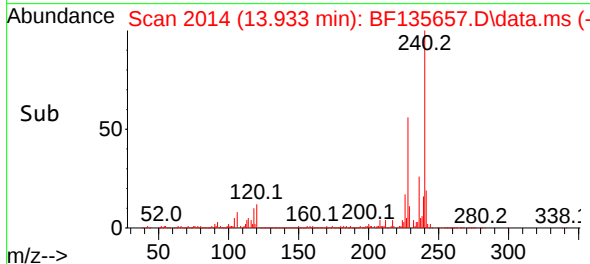
Instrument :
BNA_F
ClientSampleId :
PL-02-10052023



Tgt Ion:240 Resp: 205860
Ion Ratio Lower Upper
240 100
120 12.1 9.4 14.2
236 26.4 19.8 29.8

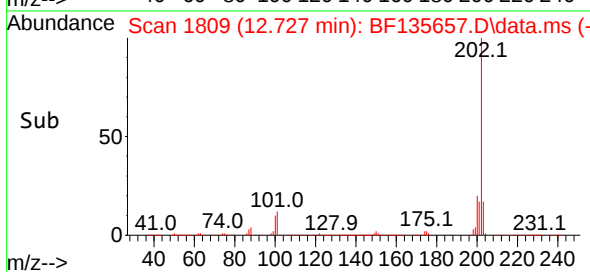
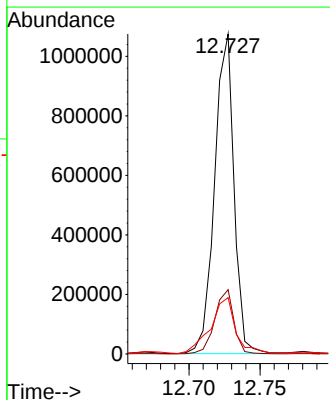
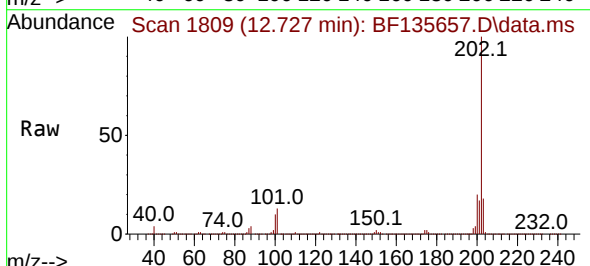
Manual Integrations
APPROVED

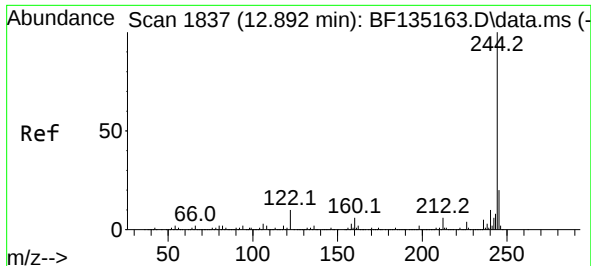
Reviewed By :Yogesh Patel 10/11/2023
Supervised By :mohammad ahmed 10/11/2023



#78
Pyrene
Concen: 51.953 ng
RT: 12.727 min Scan# 1809
Delta R.T. 0.012 min
Lab File: BF135657.D
Acq: 09 Oct 2023 18:36

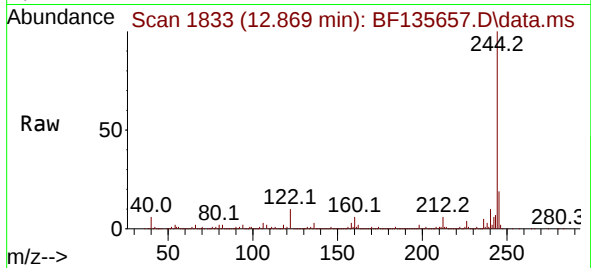
Tgt Ion:202 Resp: 1018250
Ion Ratio Lower Upper
202 100
200 20.1 16.2 24.2
203 17.6 14.2 21.4





#79
 Terphenyl-d14
 Concen: 50.244 ng
 RT: 12.869 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: BF135657.D
 Acq: 09 Oct 2023 18:36

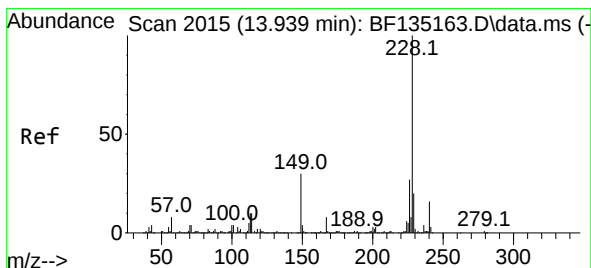
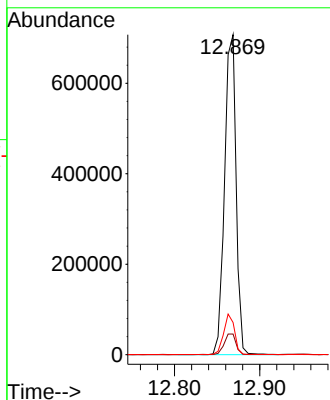
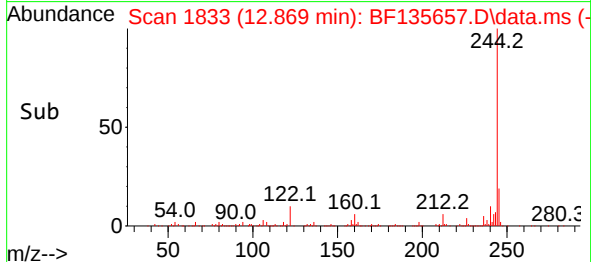
Instrument :
 BNA_F
 ClientSampleId :
 PL-02-10052023



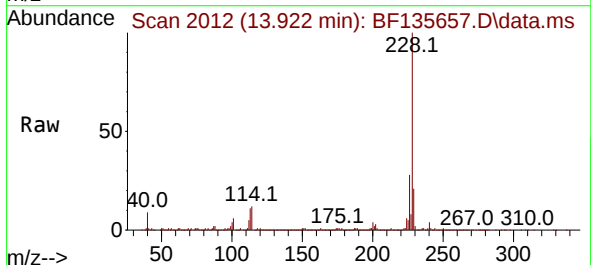
Tgt Ion:244 Resp: 667223
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.1 7.7
 122 10.0 7.9 11.9

Manual Integrations
 APPROVED

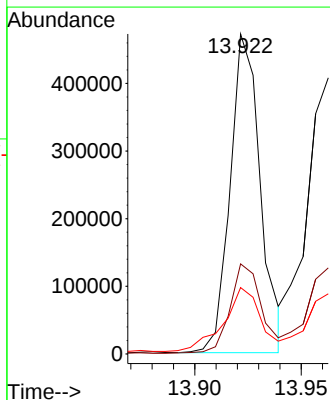
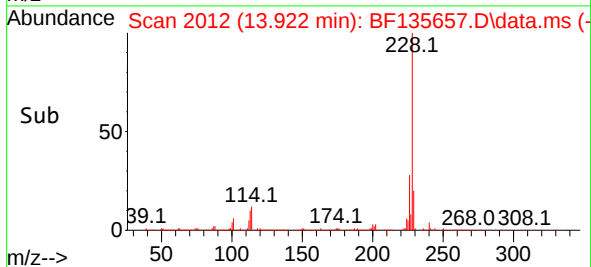
Reviewed By :Yogesh Patel 10/11/2023
 Supervised By :mohammad ahmed 10/11/2023

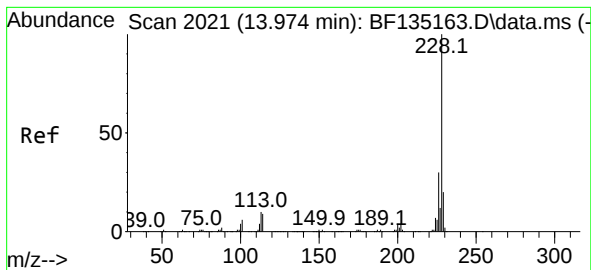


#81
 Benzo(a)anthracene
 Concen: 35.120 ng
 RT: 13.922 min Scan# 2012
 Delta R.T. 0.006 min
 Lab File: BF135657.D
 Acq: 09 Oct 2023 18:36



Tgt Ion:228 Resp: 466842
 Ion Ratio Lower Upper
 228 100
 226 28.2 21.7 32.5
 229 20.7 15.8 23.8





#83

Chrysene

Concen: 31.540 ng

RT: 13.963 min Scan# 2021

Delta R.T. 0.012 min

Lab File: BF135657.D

Acq: 09 Oct 2023 18:36

Instrument :

BNA_F

ClientSampleId :

PL-02-10052023

Tgt Ion:228 Resp: 416840

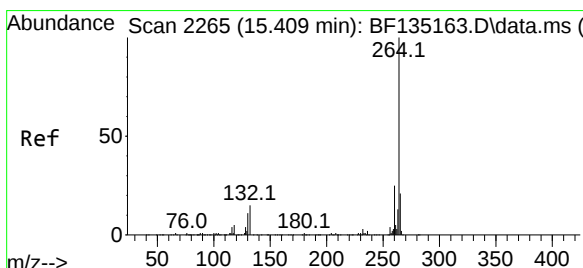
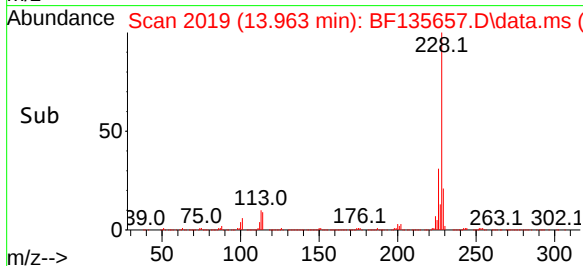
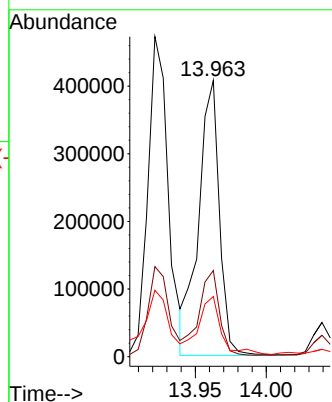
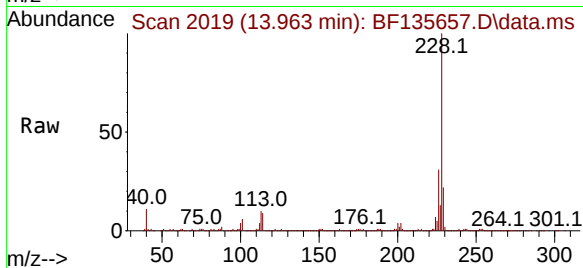
Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.3	36.5
229	21.8	16.0	24.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/11/2023

Supervised By :mohammad ahmed 10/11/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.404 min Scan# 2264

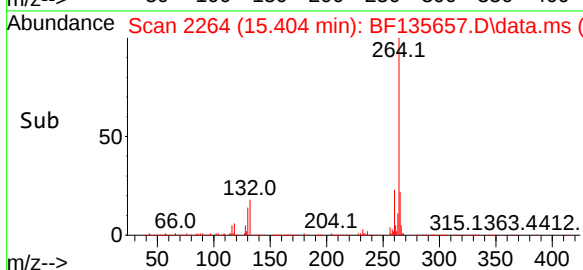
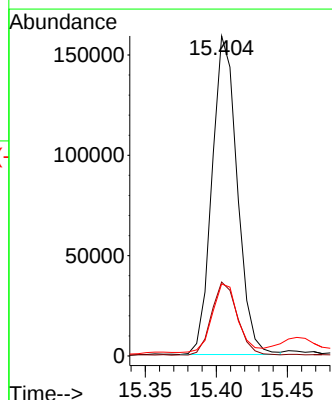
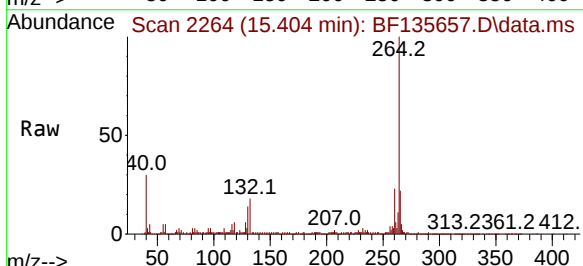
Delta R.T. 0.018 min

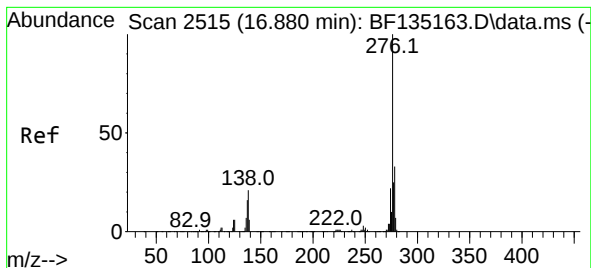
Lab File: BF135657.D

Acq: 09 Oct 2023 18:36

Tgt Ion:264 Resp: 196125

Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.8	29.6
265	22.5	17.0	25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 11.333 ng

RT: 16.898 min Scan# 2118

Delta R.T. 0.030 min

Lab File: BF135657.D

Acq: 09 Oct 2023 18:36

Instrument :

BNA_F

ClientSampleId :

PL-02-10052023

Tgt Ion:276 Resp: 145728

Ion Ratio Lower Upper

276 100

138 22.5 19.2 28.8

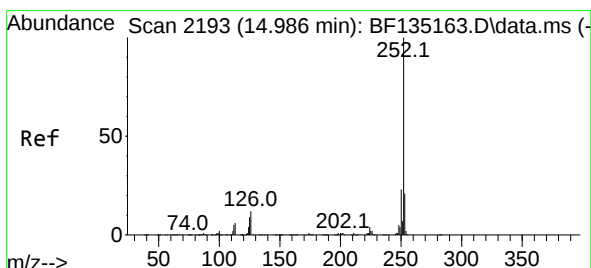
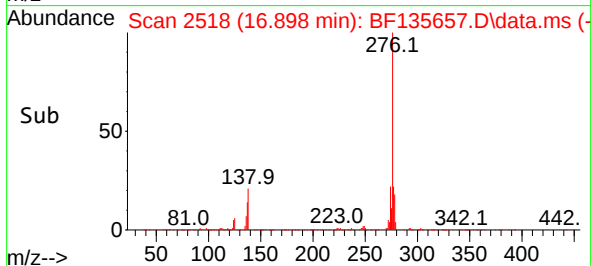
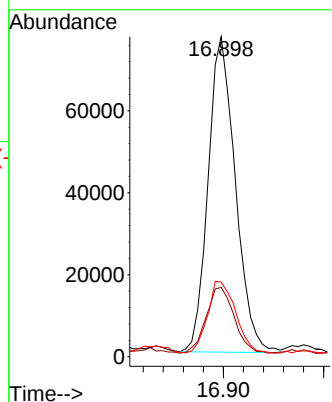
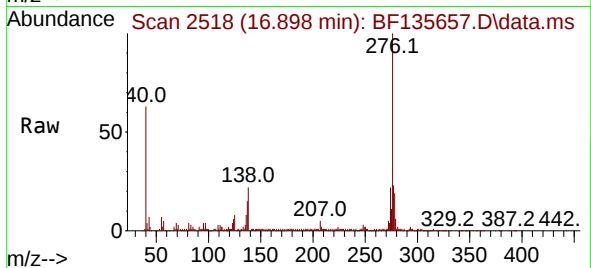
277 23.5 19.7 29.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/11/2023

Supervised By :mohammad ahmed 10/11/2023



#88

Benzo(b)fluoranthene

Concen: 39.808 ng m

RT: 14.980 min Scan# 2192

Delta R.T. 0.018 min

Lab File: BF135657.D

Acq: 09 Oct 2023 18:36

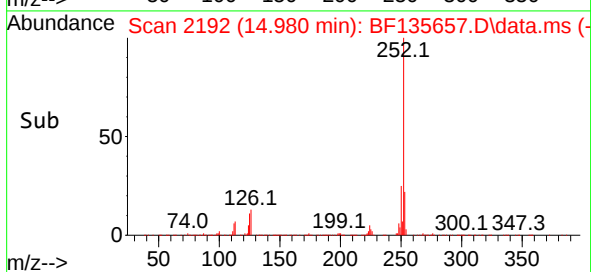
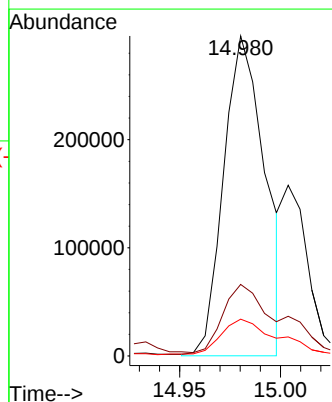
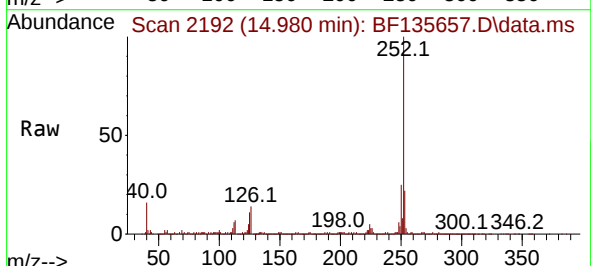
Tgt Ion:252 Resp: 422639

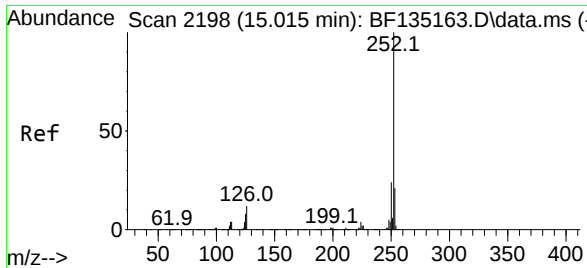
Ion Ratio Lower Upper

252 100

253 22.4 17.2 25.8

125 11.5 7.1 10.7#





#89

Benzo(k)fluoranthene

Concen: 13.239 ng m

RT: 15.004 min Scan# 2198

Delta R.T. 0.012 min

Lab File: BF135657.D

Acq: 09 Oct 2023 18:36

Instrument :

BNA_F

ClientSampleId :

PL-02-10052023

Tgt Ion:252 Resp: 13884

Ion Ratio Lower Upper

252 100

253 23.2 17.4 26.0

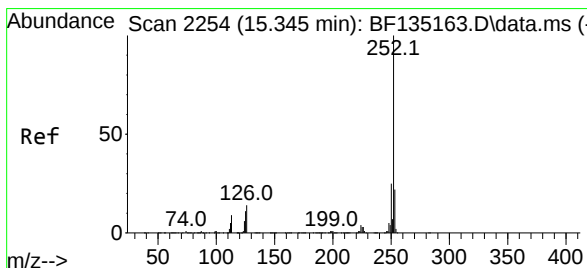
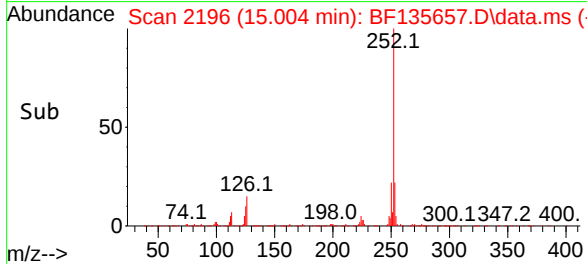
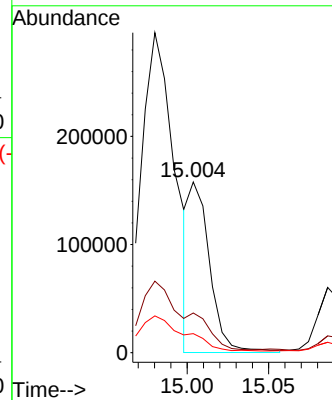
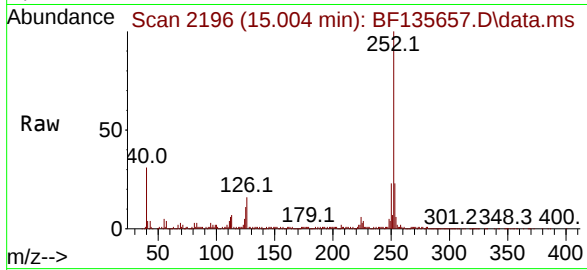
125 11.1 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/11/2023

Supervised By :mohammad ahmed 10/11/2023



#90

Benzo(a)pyrene

Concen: 30.132 ng

RT: 15.345 min Scan# 2254

Delta R.T. 0.018 min

Lab File: BF135657.D

Acq: 09 Oct 2023 18:36

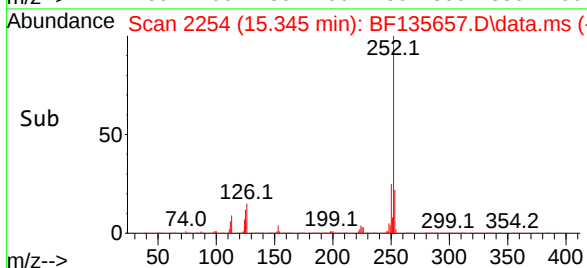
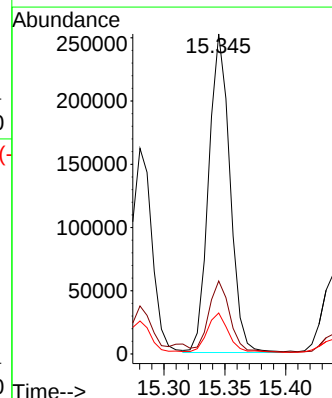
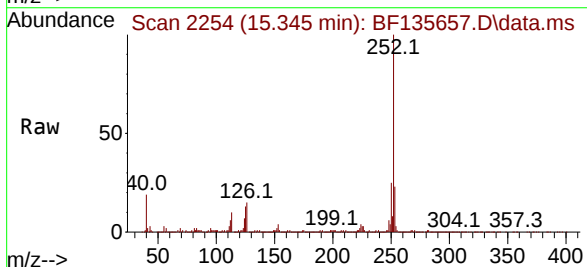
Tgt Ion:252 Resp: 305074

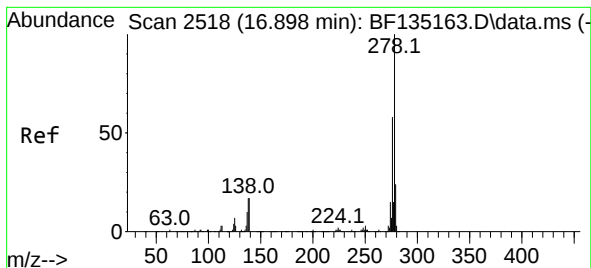
Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

125 12.8 9.2 13.8





#91

Dibenzo(a,h)anthracene

Concen: 3.665 ng

RT: 16.904 min Scan# 2518

Delta R.T. 0.024 min

Lab File: BF135657.D

Acq: 09 Oct 2023 18:36

Instrument :

BNA_F

ClientSampleId :

PL-02-10052023

Tgt Ion: 278 Resp: 3856

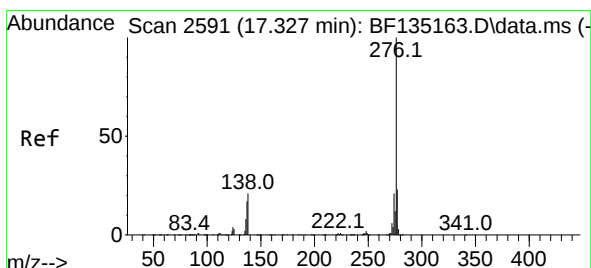
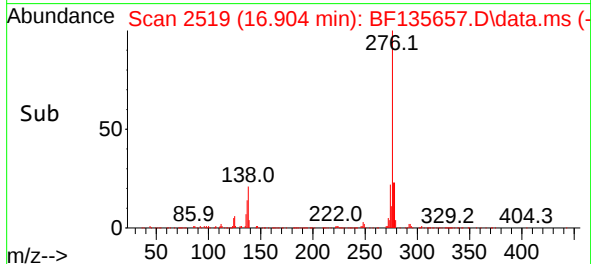
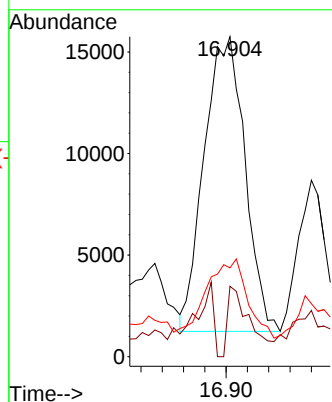
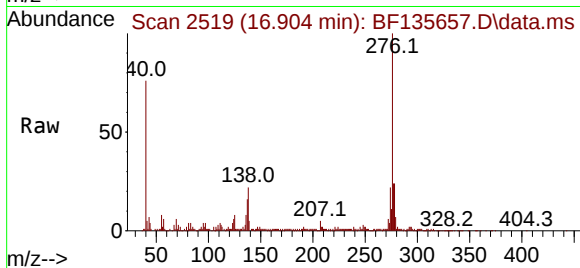
Ion	Ratio	Lower	Upper
278	100		
139	22.0	13.4	20.0
279	27.7	19.0	28.6

Manual Integrations

APPROVED

Reviewed By : Yogesh Patel 10/11/2023

Supervised By : mohammad ahmed 10/11/2023



#92

Benzo(g,h,i)perylene

Concen: 12.189 ng

RT: 17.351 min Scan# 2595

Delta R.T. 0.035 min

Lab File: BF135657.D

Acq: 09 Oct 2023 18:36

Tgt Ion: 276 Resp: 133934

Ion	Ratio	Lower	Upper
276	100		
277	24.2	18.8	28.2
138	22.7	16.9	25.3

