

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101923\
 Data File : BF135896.D
 Acq On : 19 Oct 2023 20:20
 Operator : CG\JU
 Sample : 04704-03DL 20X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 R-2(5-10)DL

Quant Time: Oct 20 02:04:29 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 17 01:22:00 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/20/2023
 Supervised By :mohammad ahmed 10/20/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.734	152	58313	20.000	ng	-0.01
21) Naphthalene-d8	8.016	136	203138	20.000	ng	0.00
39) Acenaphthene-d10	9.774	164	103037	20.000	ng	-0.01
64) Phenanthrene-d10	11.268	188	163650	20.000	ng	-0.01
76) Chrysene-d12	13.939	240	108296	20.000	ng	-0.01
86) Perylene-d12	15.415	264	93169	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	13028	3.592	ng	0.04
7) Phenol-d6	6.434	99	14331	3.167	ng	0.04
23) Nitrobenzene-d5	7.322	82	10425	2.823	ng	0.00
42) 2,4,6-Tribromophenol	10.580	330	3486	3.526	ng	0.00
45) 2-Fluorobiphenyl	9.092	172	19118	2.901	ng	-0.01
79) Terphenyl-d14	12.863	244	20016	3.423	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.033	128	99782	10.071	ng	99
37) 2-Methylnaphthalene	8.727	142	59389	9.098	ng	96
38) 1-Methylnaphthalene	8.827	142	104211	17.308	ng	99
46) 1,1'-Biphenyl	9.192	154	28704	3.637	ng	97
49) Acenaphthylene	9.633	152	63306	6.725	ng	# 95
52) Acenaphthene	9.804	154	21311	3.777	ng	98
55) Dibenzofuran	9.980	168	18594	2.184	ng	# 86
58) Fluorene	10.322	166	95567	14.339	ng	98
71) Phenanthrene	11.292	178	425571	54.285	ng	99
72) Anthracene	11.345	178	67438	8.301	ng	98
75) Fluoranthene	12.492	202	188341	21.646	ng	98
78) Pyrene	12.727	202	290207	33.722	ng	99
81) Benzo(a)anthracene	13.927	228	110437	15.525	ng	96
83) Chrysene	13.962	228	97684	14.178	ng	97
87) Indeno(1,2,3-cd)pyrene	16.927	276	24562	4.838	ng	95
88) Benzo(b)fluoranthene	14.986	252	62064m	11.903	ng	
89) Benzo(k)fluoranthene	15.009	252	19849m	3.921	ng	
90) Benzo(a)pyrene	15.356	252	65183	13.294	ng	99
92) Benzo(g,h,i)perylene	17.386	276	24903	5.825	ng	97

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

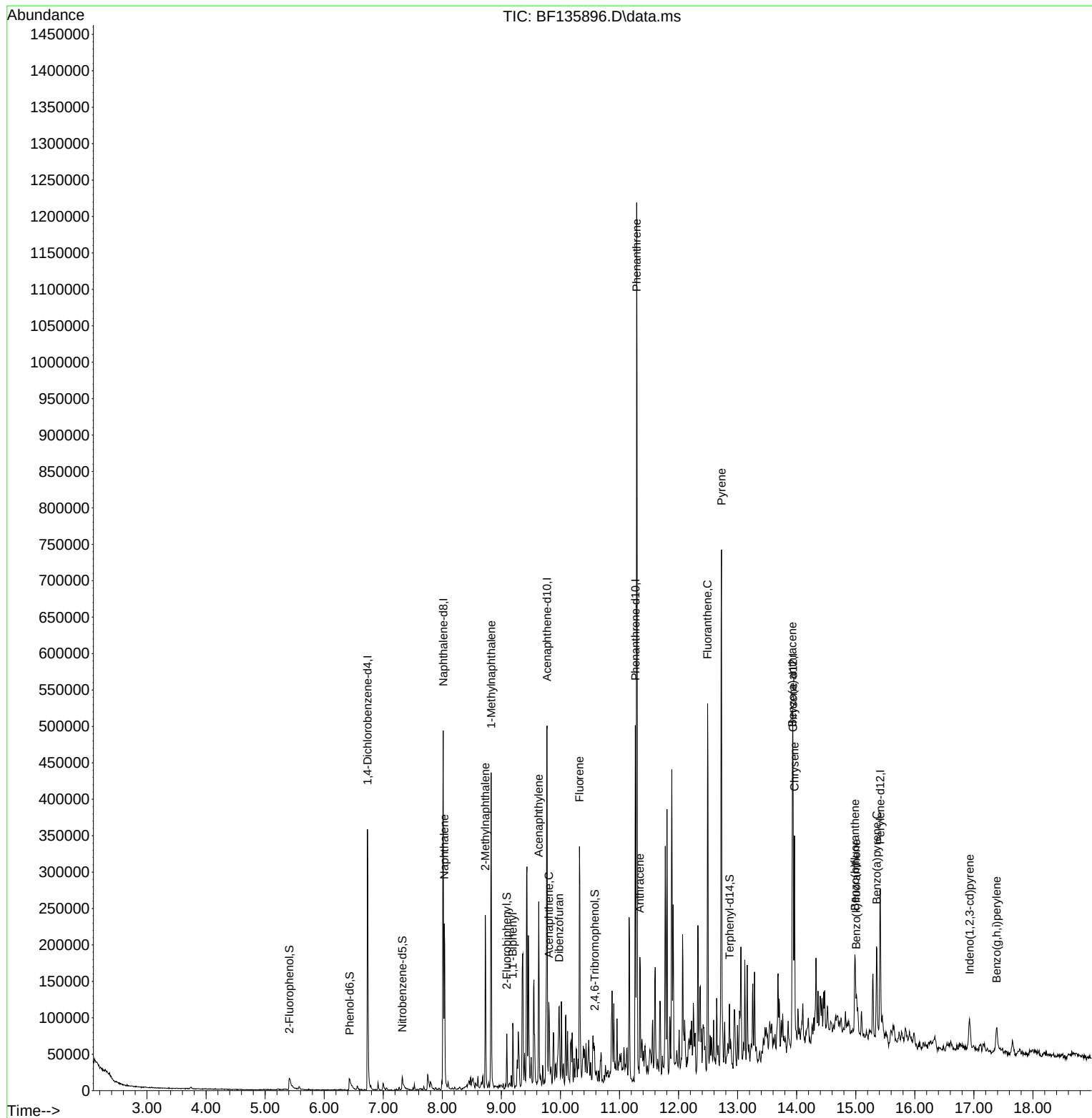
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101923\
Data File : BF135896.D
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ALS Vial : 18 Sample Multiplier: 1

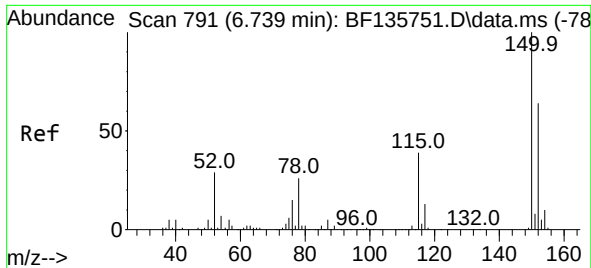
Instrument :
BNA_F
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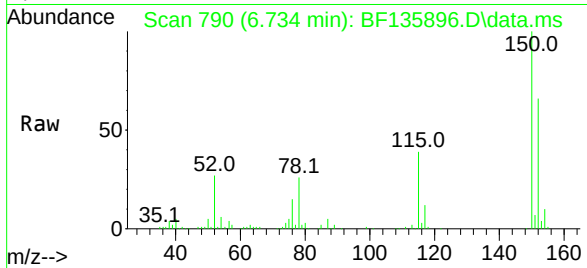
Reviewed By :Yogesh Patel 10/20/2023
Supervised By :mohammad ahmed 10/20/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.734 min Scan# 791
Delta R.T. -0.013 min
Lab File: BF135896.D
Acq: 19 Oct 2023 20:20

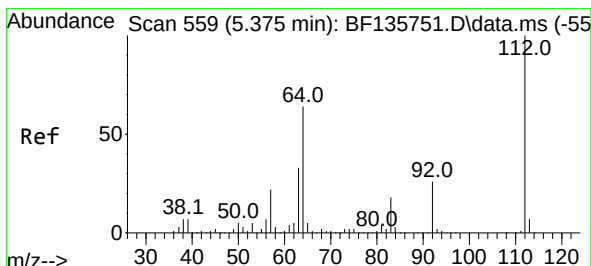
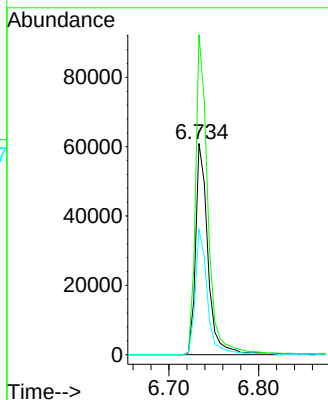
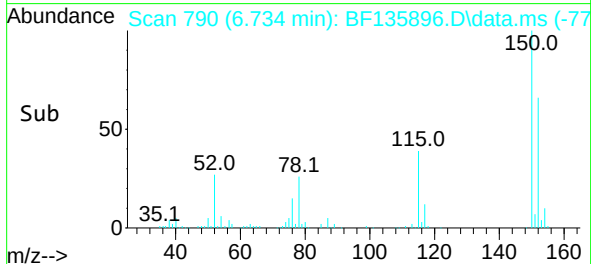
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL



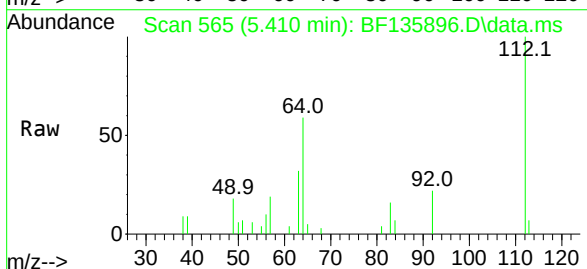
Tgt Ion:152 Resp: 5831
Ion Ratio Lower Upper
152 100
150 151.6 124.5 186.7
115 59.2 49.0 73.4

Manual Integrations
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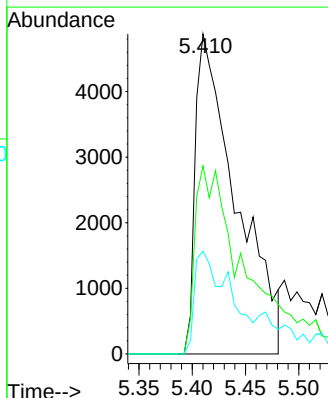
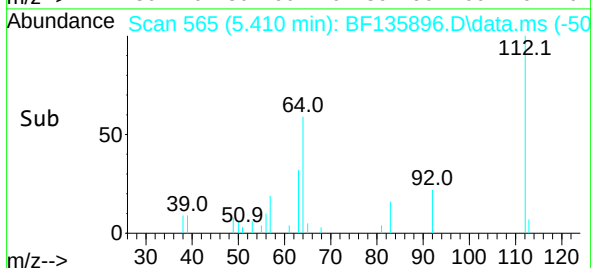
Reviewed By :Yogesh Patel 10/20/2023
Supervised By :mohammad ahmed 10/20/2023

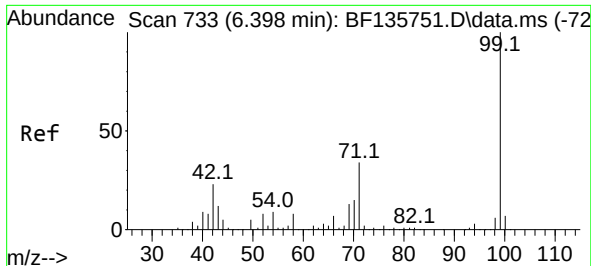


#5
2-Fluorophenol
Concen: 3.592 ng
RT: 5.410 min Scan# 565
Delta R.T. 0.035 min
Lab File: BF135896.D
Acq: 19 Oct 2023 20:20



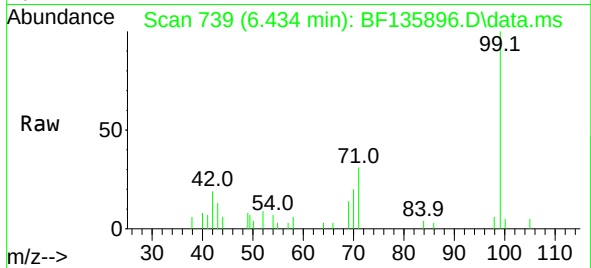
Tgt Ion:112 Resp: 13028
Ion Ratio Lower Upper
112 100
64 58.8 51.2 76.8
63 32.1 26.1 39.1





#7
Phenol-d6
Concen: 3.167 ng
RT: 6.434 min Scan# 71
Delta R.T. 0.035 min
Lab File: BF135896.D
Acq: 19 Oct 2023 20:20

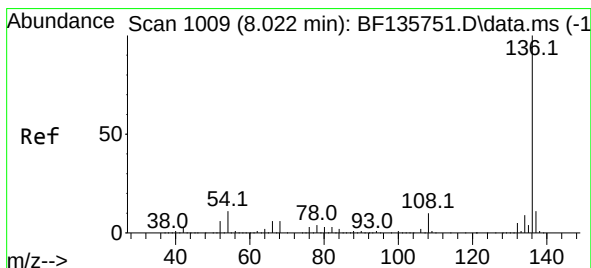
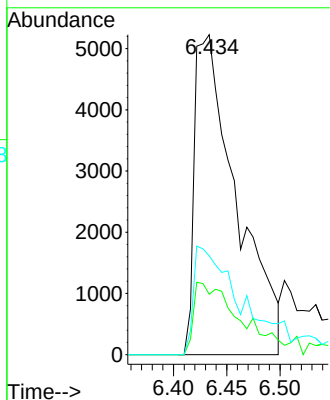
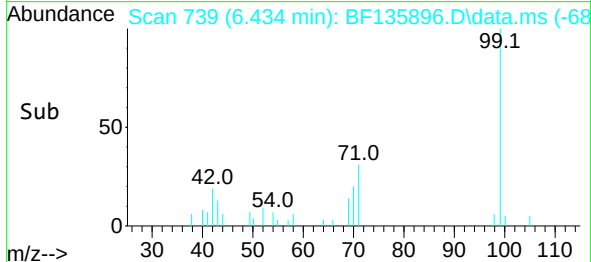
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL



Tgt Ion: 99 Resp: 1433
Ion Ratio Lower Upper
99 100
42 18.9 18.4 27.6
71 30.9 27.2 40.8

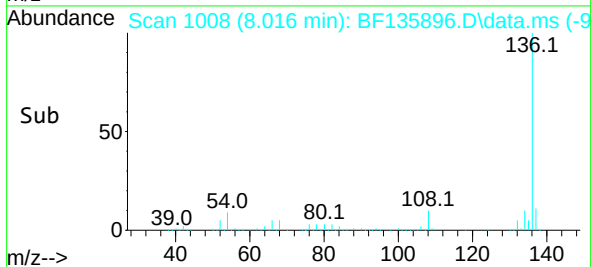
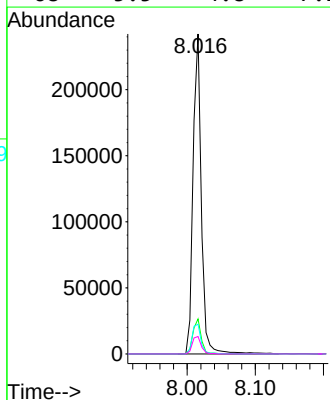
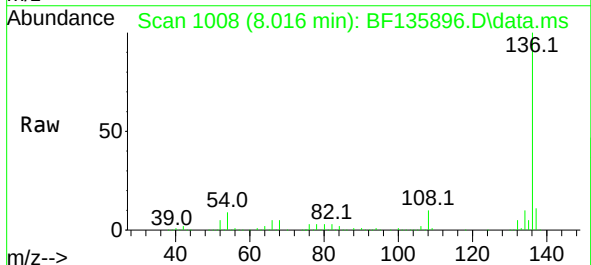
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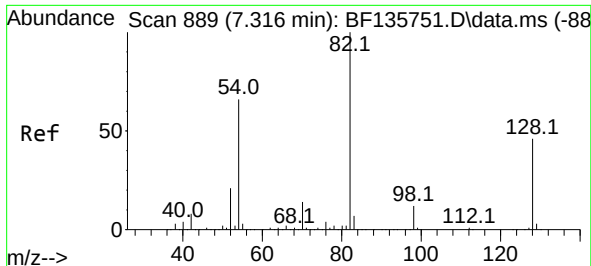
Reviewed By :Yogesh Patel 10/20/2023
Supervised By :mohammad ahmed 10/20/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF135896.D
Acq: 19 Oct 2023 20:20

Tgt Ion:136 Resp: 203138
Ion Ratio Lower Upper
136 100
137 11.0 8.6 12.8
54 9.3 8.5 12.7
68 5.5 4.8 7.2





#23

Nitrobenzene-d5

Concen: 2.823 ng

RT: 7.322 min Scan# 890

Delta R.T. 0.006 min

Lab File: BF135896.D

Acq: 19 Oct 2023 20:20

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)DL

Tgt Ion: 82 Resp: 10425

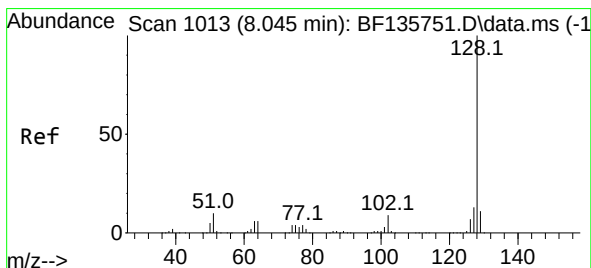
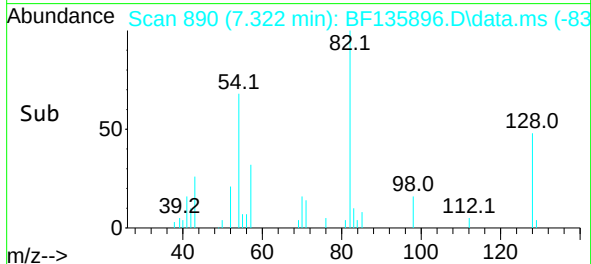
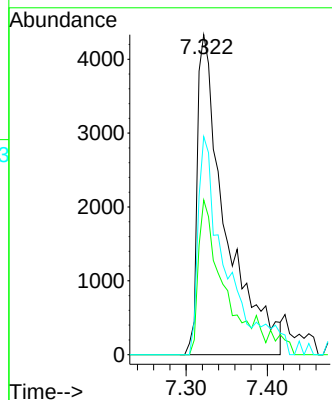
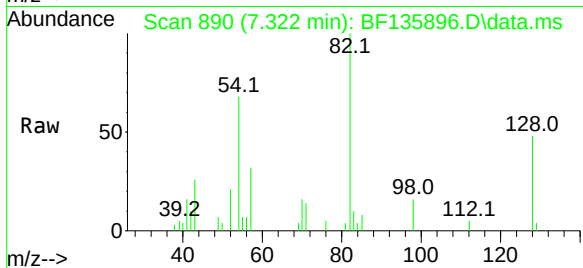
Ion	Ratio	Lower	Upper
82	100		
128	48.3	37.0	55.6
54	68.2	52.8	79.2

Manual Integrations

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Supervised By :mohammad ahmed 10/20/2023



#31

Naphthalene

Concen: 10.071 ng

RT: 8.033 min Scan# 1011

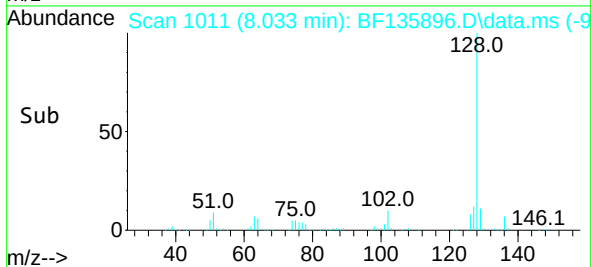
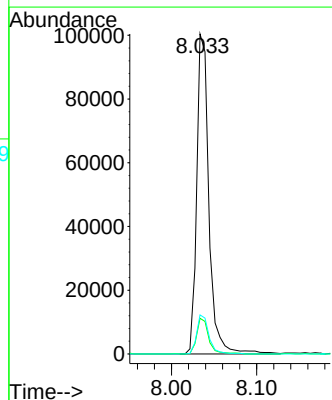
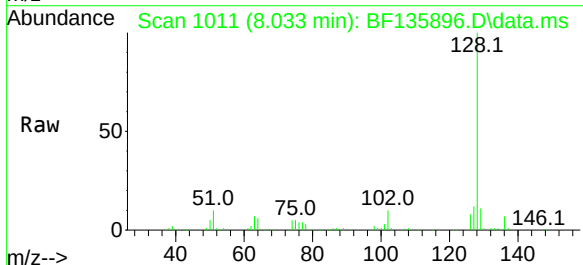
Delta R.T. -0.012 min

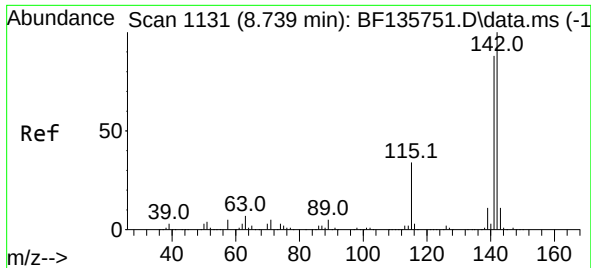
Lab File: BF135896.D

Acq: 19 Oct 2023 20:20

Tgt Ion:128 Resp: 99782

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.7	13.1
127	12.2	10.2	15.4





#37

2-Methylnaphthalene

Concen: 9.098 ng

RT: 8.727 min Scan# 1129

Delta R.T. -0.012 min

Lab File: BF135896.D

Acq: 19 Oct 2023 20:20

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)DL

Tgt Ion:142 Resp: 59389

Ion Ratio Lower Upper

142 100

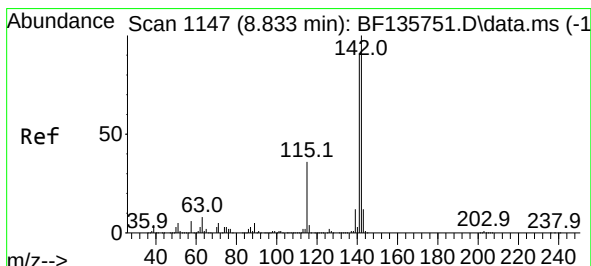
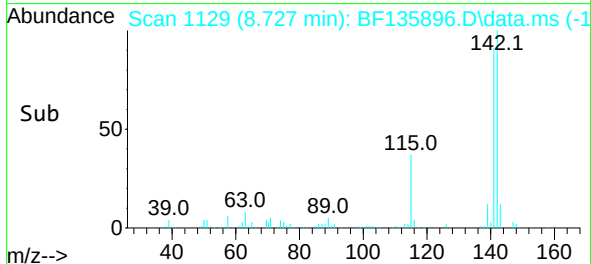
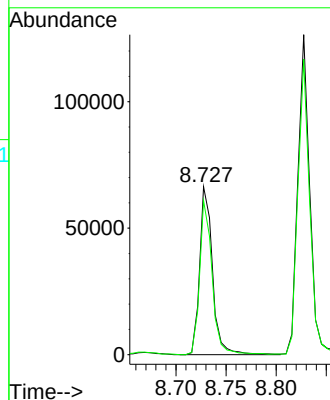
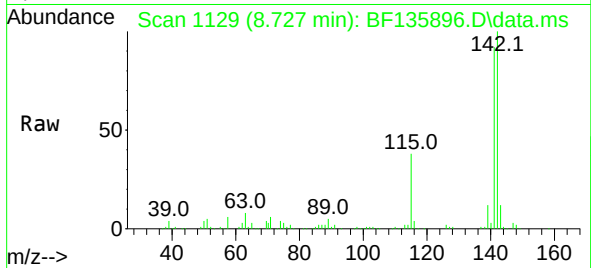
141 91.7 70.6 105.8

Manual Integrations

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Reviewed By :Yogesh Patel 10/20/2023

Supervised By :mohammad ahmed 10/20/2023



#38

1-Methylnaphthalene

Concen: 17.308 ng

RT: 8.827 min Scan# 1146

Delta R.T. -0.012 min

Lab File: BF135896.D

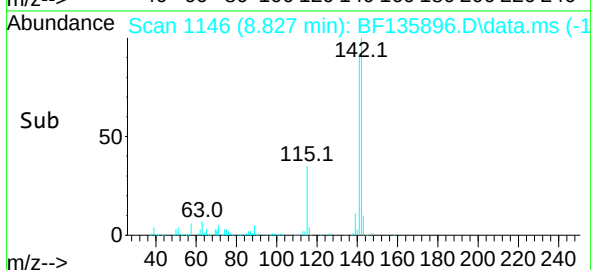
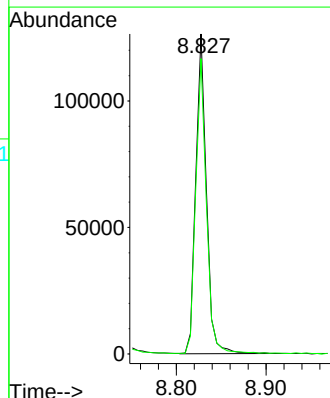
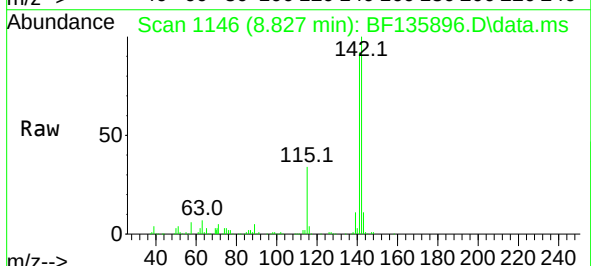
Acq: 19 Oct 2023 20:20

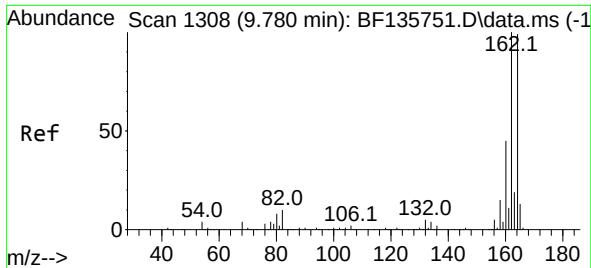
Tgt Ion:142 Resp: 104211

Ion Ratio Lower Upper

142 100

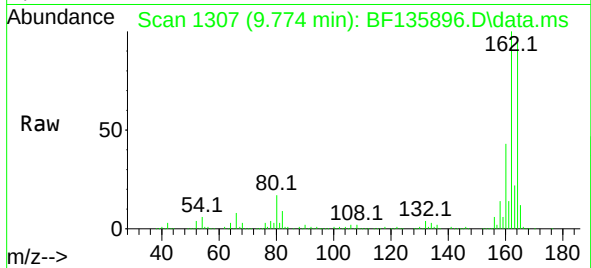
141 92.3 72.7 109.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.774 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135896.D
Acq: 19 Oct 2023 20:20

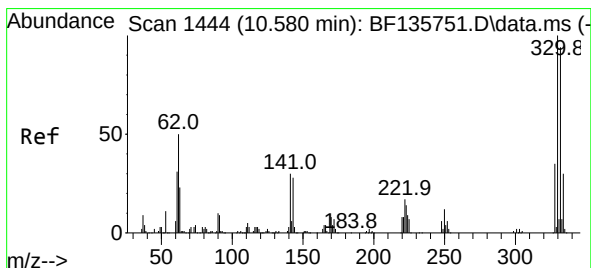
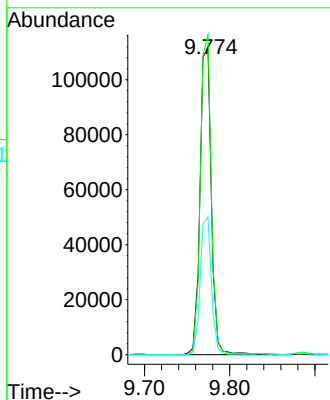
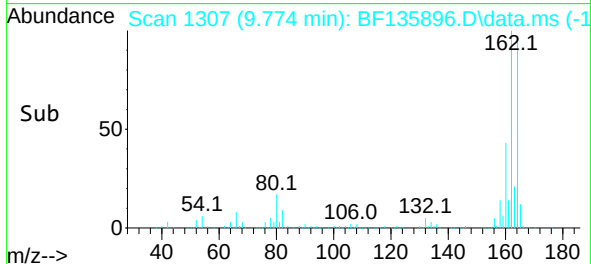
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL



Tgt Ion:164 Resp: 10303
Ion Ratio Lower Upper
164 100
162 104.4 80.8 121.2
160 45.0 36.6 54.8

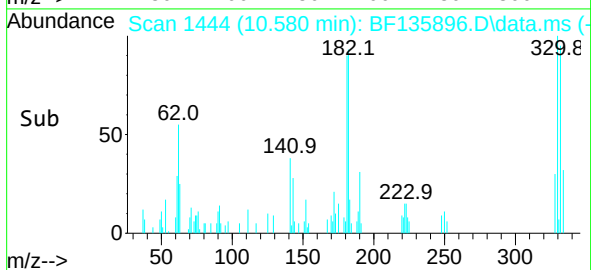
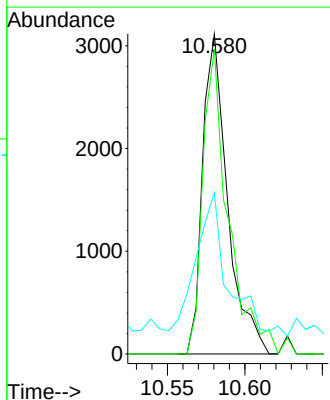
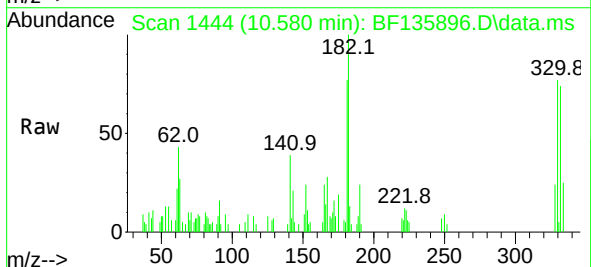
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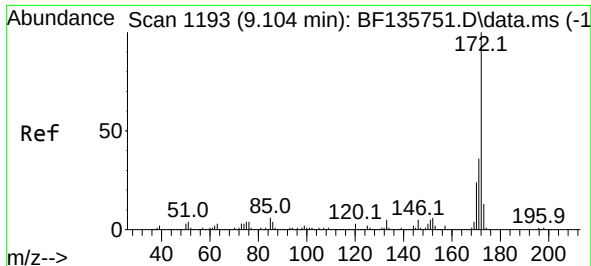
Reviewed By :Yogesh Patel 10/20/2023
Supervised By :mohammad ahmed 10/20/2023



#42
2,4,6-Tribromophenol
Concen: 3.526 ng
RT: 10.580 min Scan# 1444
Delta R.T. -0.006 min
Lab File: BF135896.D
Acq: 19 Oct 2023 20:20

Tgt Ion:330 Resp: 3486
Ion Ratio Lower Upper
330 100
332 98.5 75.0 112.4
141 51.1 25.8 38.6#





#45

2-Fluorobiphenyl

Concen: 2.901 ng

RT: 9.092 min Scan# 1191

Delta R.T. -0.012 min

Lab File: BF135896.D

Acq: 19 Oct 2023 20:20

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)DL

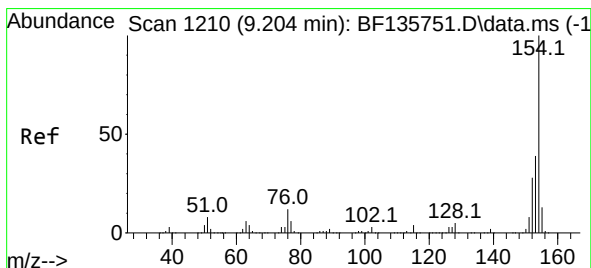
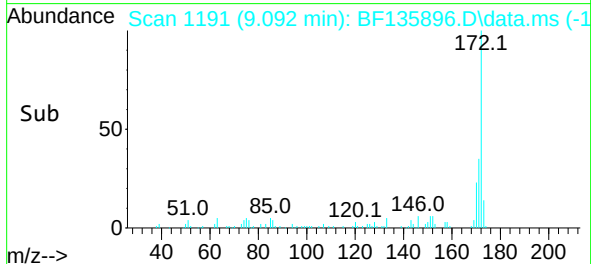
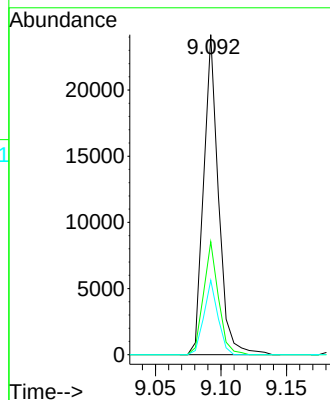
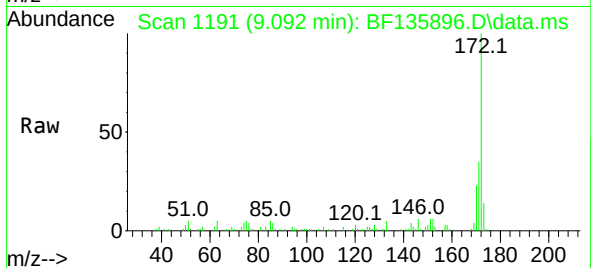
Tgt Ion:172	Resp:	19118
Ion Ratio	Lower	Upper
172	100	
171	35.3	28.4 42.6
170	23.3	18.8 28.2

Manual Integrations

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Reviewed By :Yogesh Patel 10/20/2023

Supervised By :mohammad ahmed 10/20/2023



#46

1,1'-Biphenyl

Concen: 3.637 ng

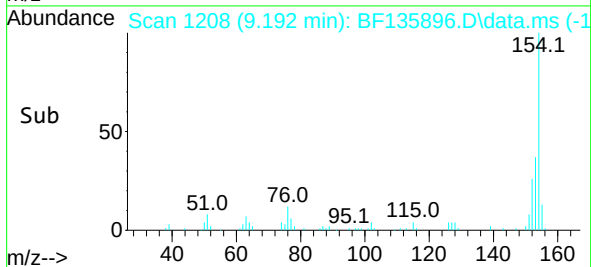
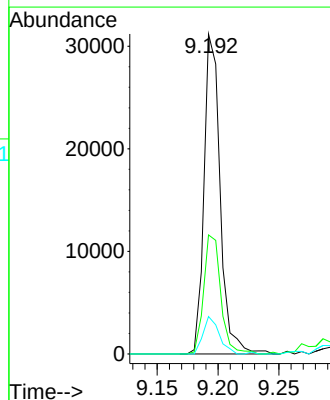
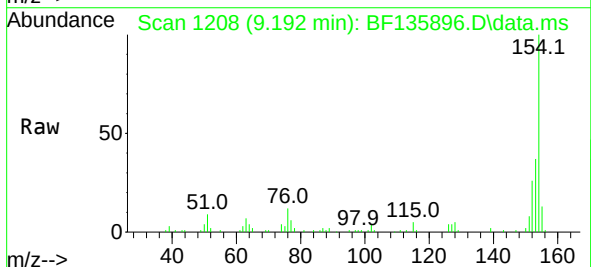
RT: 9.192 min Scan# 1208

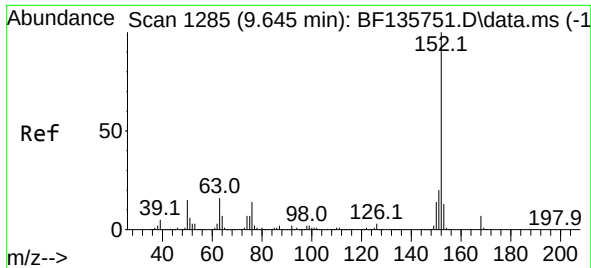
Delta R.T. -0.012 min

Lab File: BF135896.D

Acq: 19 Oct 2023 20:20

Tgt Ion:154	Resp:	28704
Ion Ratio	Lower	Upper
154	100	
153	37.2	19.4 59.4
76	11.7	0.0 31.7





#49
Acenaphthylene
Concen: 6.725 ng
RT: 9.633 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135896.D
Acq: 19 Oct 2023 20:20

Instrument :

BNA_F

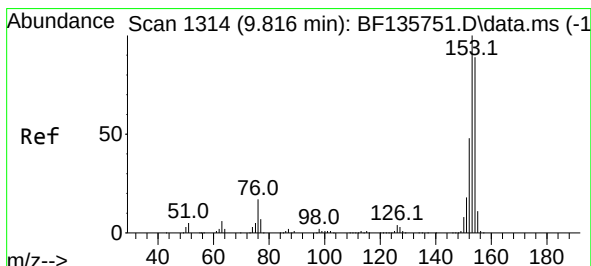
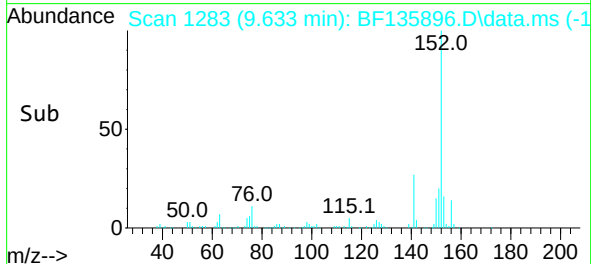
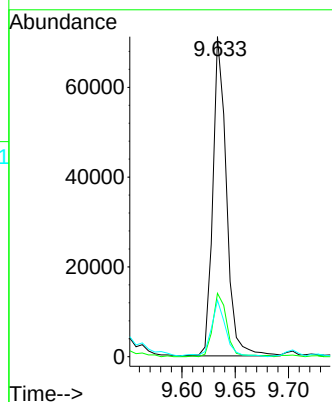
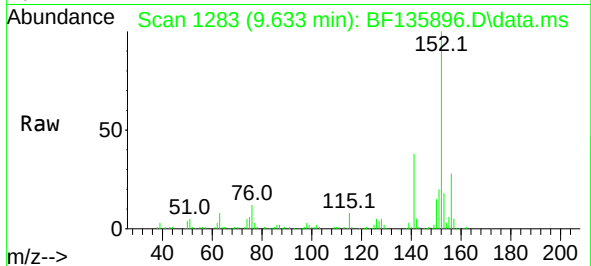
ClientSampleId :

R-2(5-10)DL

Tgt Ion:152 Resp: 63300
Ion Ratio Lower Upper
152 100
151 19.8 16.2 24.2
153 17.7 10.2 15.4

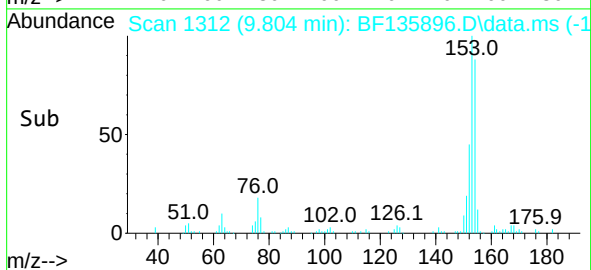
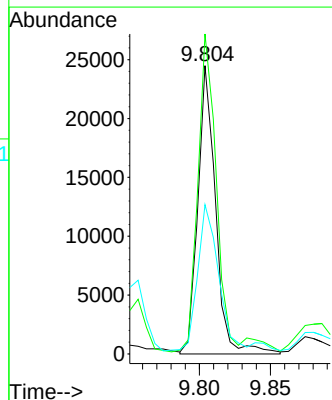
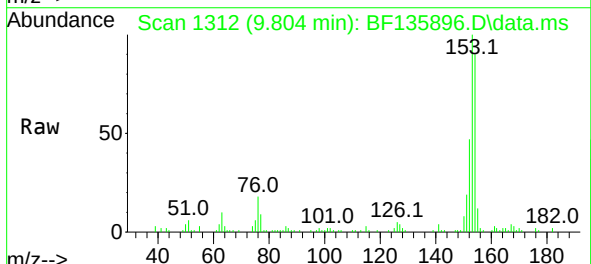
Manual Integrations
APPROVED

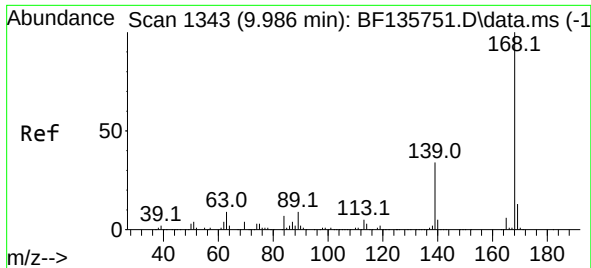
Reviewed By :Yogesh Patel 10/20/2023
Supervised By :mohammad ahmed 10/20/2023



#52
Acenaphthene
Concen: 3.777 ng
RT: 9.804 min Scan# 1312
Delta R.T. -0.012 min
Lab File: BF135896.D
Acq: 19 Oct 2023 20:20

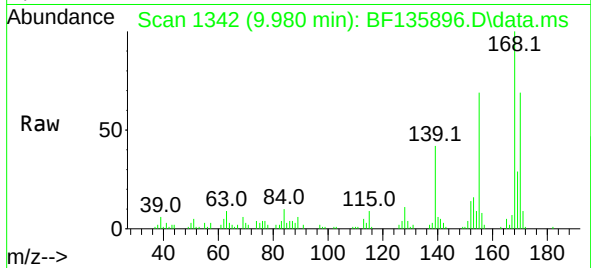
Tgt Ion:154 Resp: 21311
Ion Ratio Lower Upper
154 100
153 111.0 90.1 135.1
152 51.8 43.1 64.7





#55
Dibenzenofuran
Concen: 2.184 ng
RT: 9.980 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135896.D
Acq: 19 Oct 2023 20:20

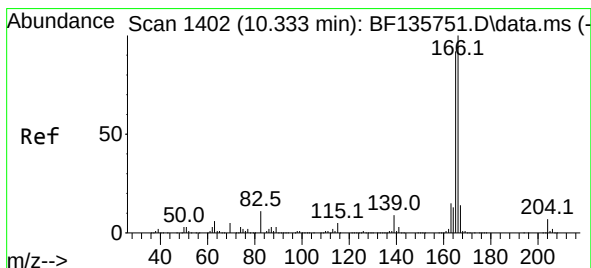
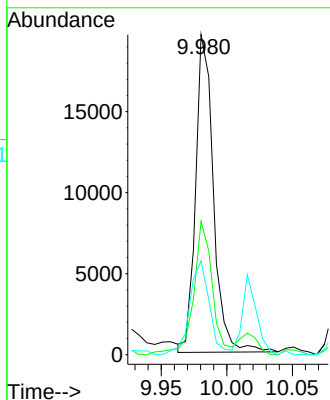
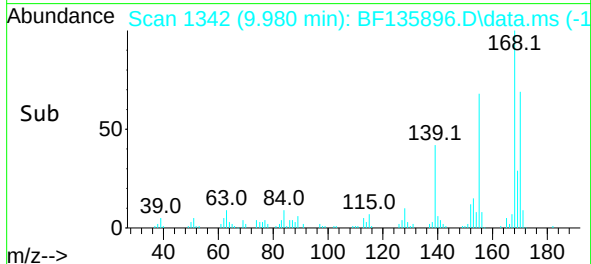
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL



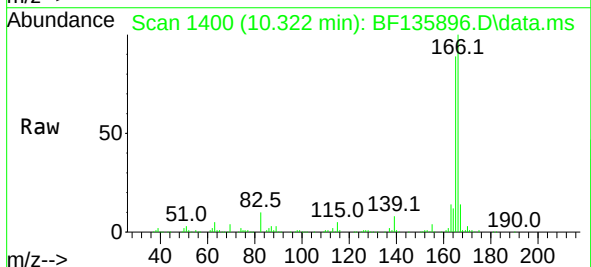
Tgt Ion:168 Resp: 18594
Ion Ratio Lower Upper
168 100
139 41.7 31.0 46.4
169 29.3 10.7 16.1

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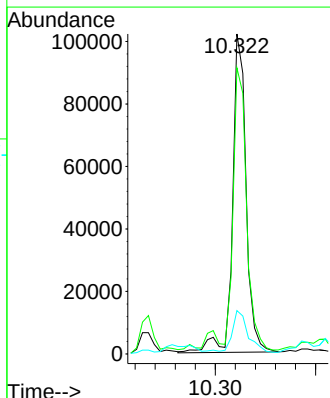
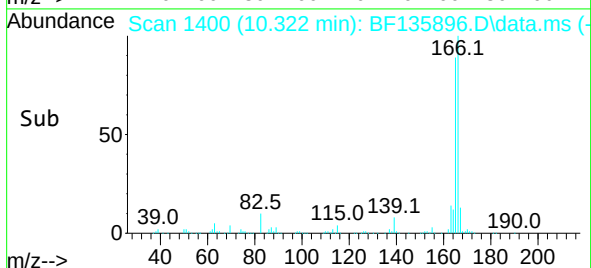
Reviewed By :Yogesh Patel 10/20/2023
Supervised By :mohammad ahmed 10/20/2023

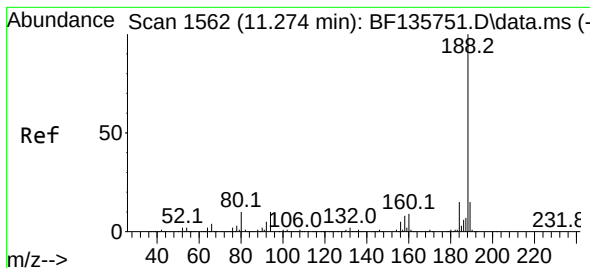


#58
Fluorene
Concen: 14.339 ng
RT: 10.322 min Scan# 1400
Delta R.T. -0.018 min
Lab File: BF135896.D
Acq: 19 Oct 2023 20:20



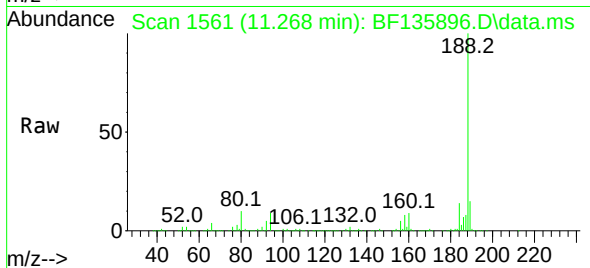
Tgt Ion:166 Resp: 95567
Ion Ratio Lower Upper
166 100
165 89.4 73.4 110.0
167 13.6 11.0 16.6





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.268 min Scan# 1561
Delta R.T. -0.012 min
Lab File: BF135896.D
Acq: 19 Oct 2023 20:20

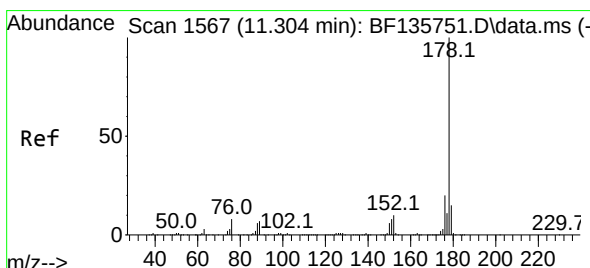
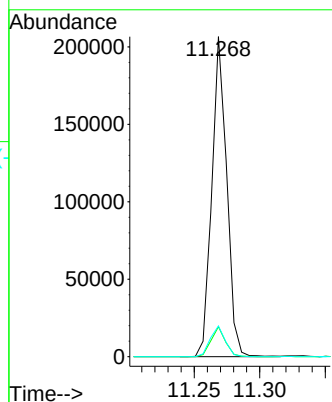
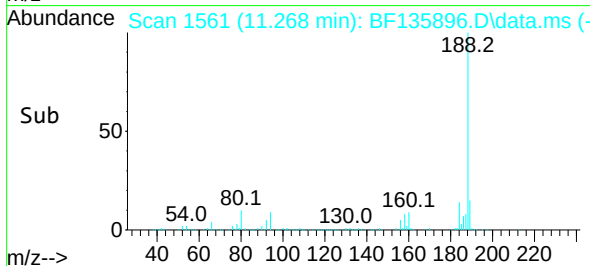
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL



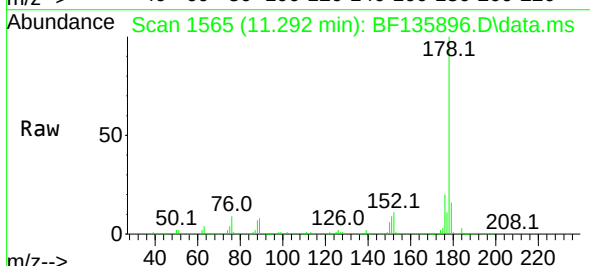
Tgt Ion:188 Resp: 163650
Ion Ratio Lower Upper
188 100
94 9.3 8.0 12.0
80 9.6 8.3 12.5

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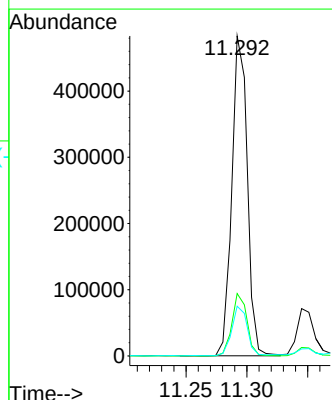
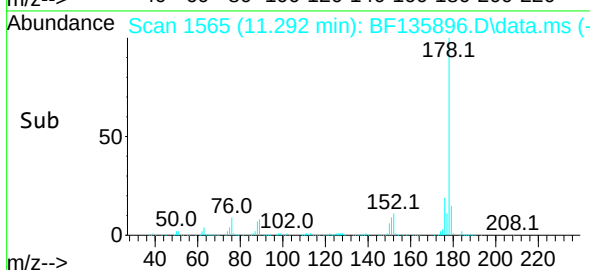
Reviewed By :Yogesh Patel 10/20/2023
Supervised By :mohammad ahmed 10/20/2023

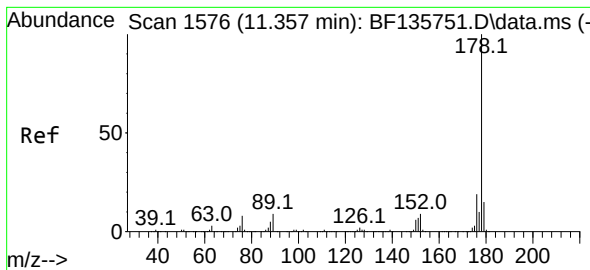


#71
Phenanthrene
Concen: 54.285 ng
RT: 11.292 min Scan# 1565
Delta R.T. -0.012 min
Lab File: BF135896.D
Acq: 19 Oct 2023 20:20



Tgt Ion:178 Resp: 425571
Ion Ratio Lower Upper
178 100
176 19.5 16.0 24.0
179 15.6 12.2 18.4





#72

Anthracene

Concen: 8.301 ng

RT: 11.345 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF135896.D

Acq: 19 Oct 2023 20:20

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)DL

Tgt Ion:178 Resp: 67438

Ion Ratio Lower Upper

178 100

176 17.8 15.1 22.7

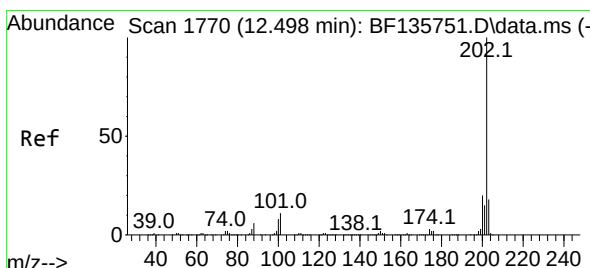
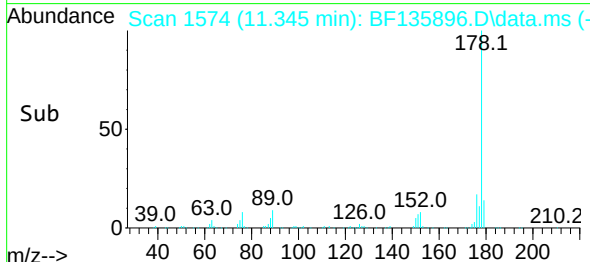
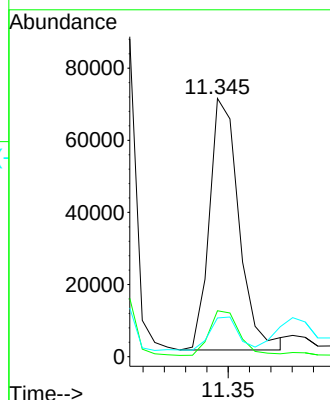
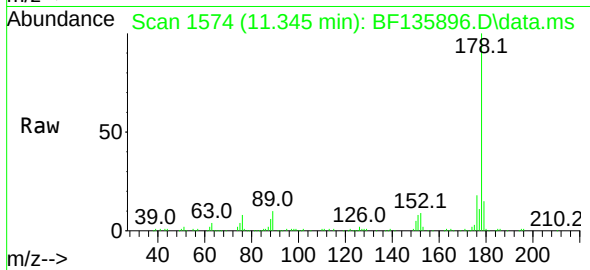
179 15.0 12.3 18.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/20/2023

Supervised By :mohammad ahmed 10/20/2023



#75

Fluoranthene

Concen: 21.646 ng

RT: 12.492 min Scan# 1769

Delta R.T. -0.012 min

Lab File: BF135896.D

Acq: 19 Oct 2023 20:20

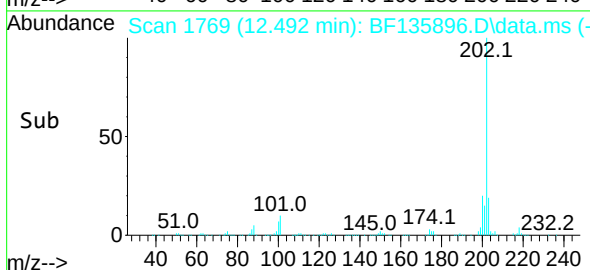
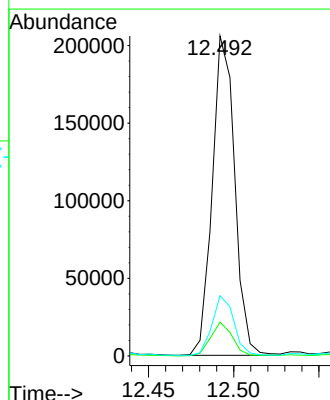
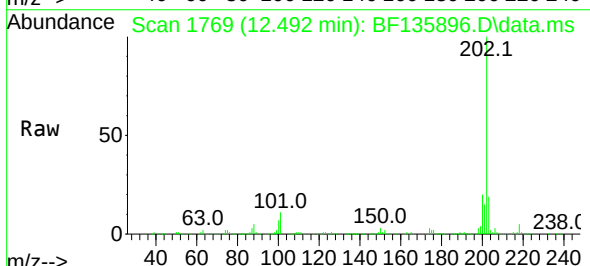
Tgt Ion:202 Resp: 188341

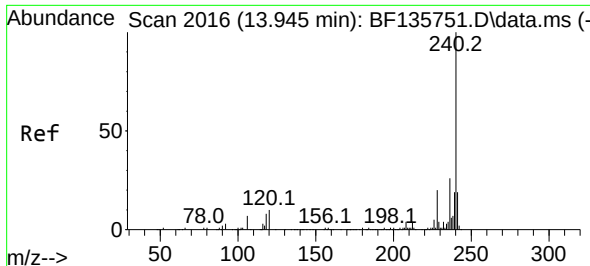
Ion Ratio Lower Upper

202 100

101 10.6 0.0 31.5

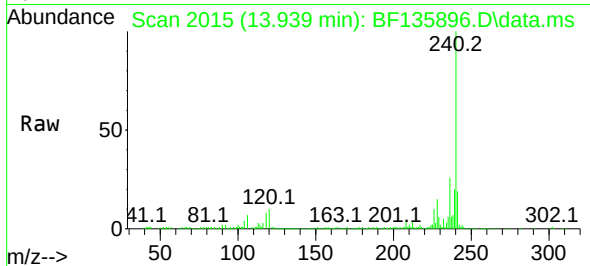
203 18.8 0.0 38.3





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2016
Delta R.T. -0.012 min
Lab File: BF135896.D
Acq: 19 Oct 2023 20:20

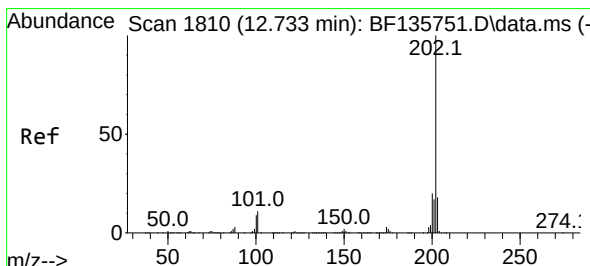
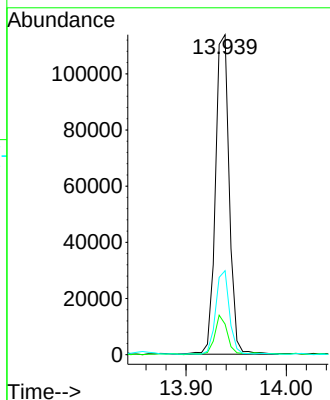
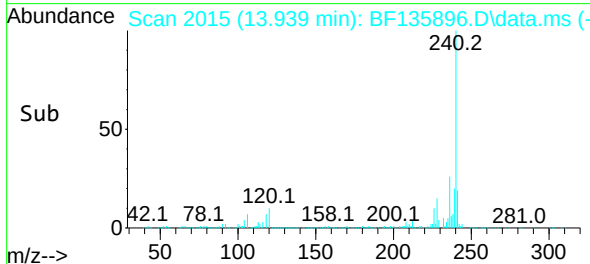
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL



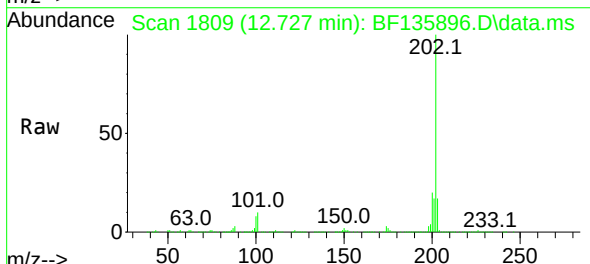
Tgt Ion:240 Resp: 108290
Ion Ratio Lower Upper
240 100
120 9.6 8.2 12.2
236 26.2 21.2 31.8

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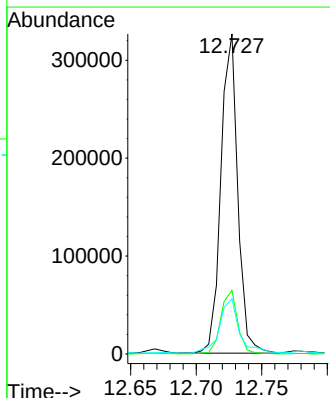
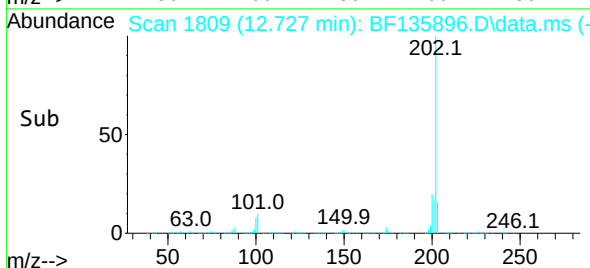
Reviewed By :Yogesh Patel 10/20/2023
Supervised By :mohammad ahmed 10/20/2023

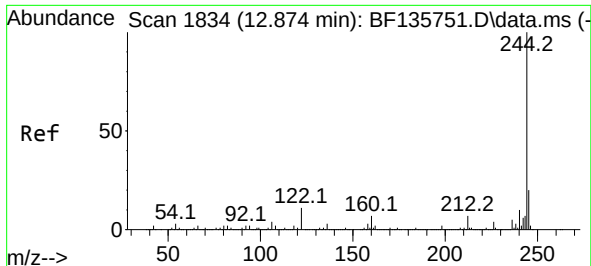


#78
Pyrene
Concen: 33.722 ng
RT: 12.727 min Scan# 1809
Delta R.T. -0.006 min
Lab File: BF135896.D
Acq: 19 Oct 2023 20:20



Tgt Ion:202 Resp: 290207
Ion Ratio Lower Upper
202 100
200 19.9 16.1 24.1
203 17.3 14.2 21.2





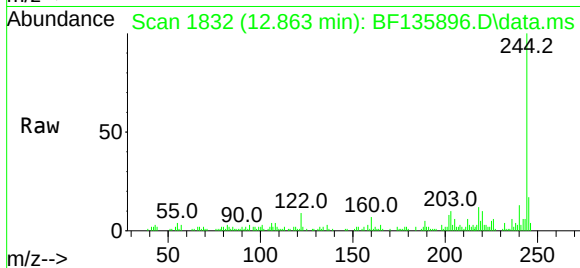
#79
 Terphenyl-d14
 Concen: 3.423 ng
 RT: 12.863 min Scan# 1832
 Delta R.T. -0.018 min
 Lab File: BF135896.D
 Acq: 19 Oct 2023 20:20

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)DL



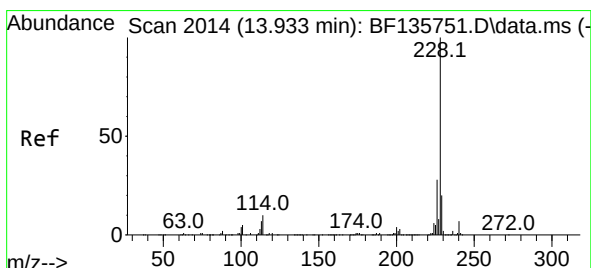
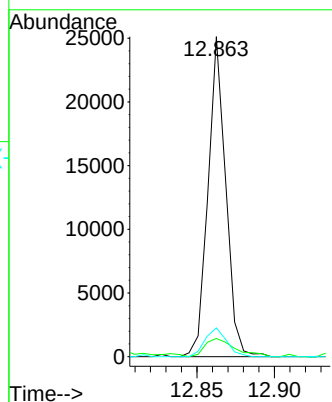
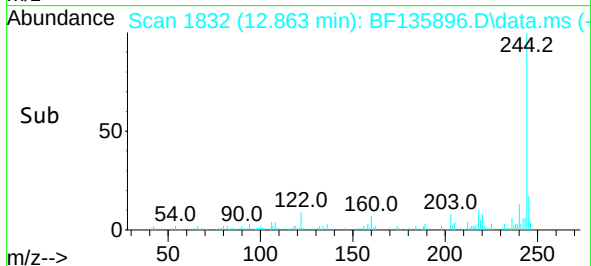
Tgt Ion:244 Resp: 20010
 Ion Ratio Lower Upper
 244 100
 212 5.7 5.6 8.4
 122 9.0 9.0 13.6

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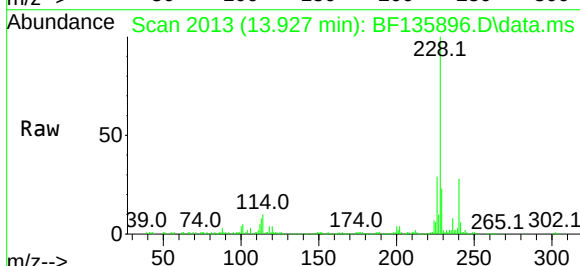
APPROVED

Reviewed By :Yogesh Patel 10/20/2023

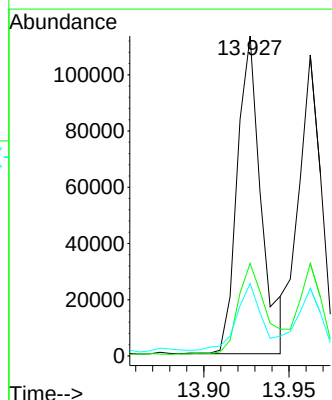
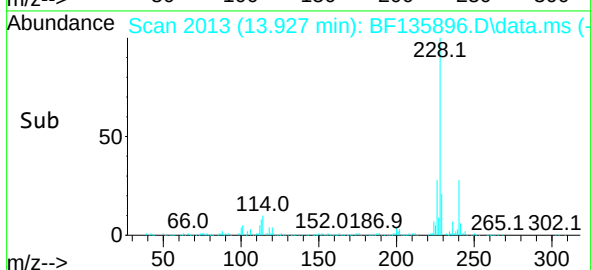
Supervised By :mohammad ahmed 10/20/2023

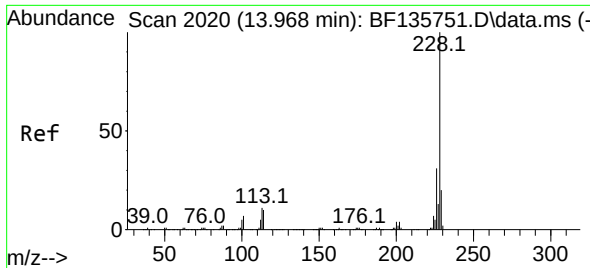


#81
 Benzo(a)anthracene
 Concen: 15.525 ng
 RT: 13.927 min Scan# 2013
 Delta R.T. -0.012 min
 Lab File: BF135896.D
 Acq: 19 Oct 2023 20:20



Tgt Ion:228 Resp: 110437
 Ion Ratio Lower Upper
 228 100
 226 28.9 22.2 33.2
 229 22.6 16.1 24.1





#83
Chrysene
Concen: 14.178 ng
RT: 13.962 min Scan# 2020
Delta R.T. -0.012 min
Lab File: BF135896.D
Acq: 19 Oct 2023 20:20

Instrument :

BNA_F

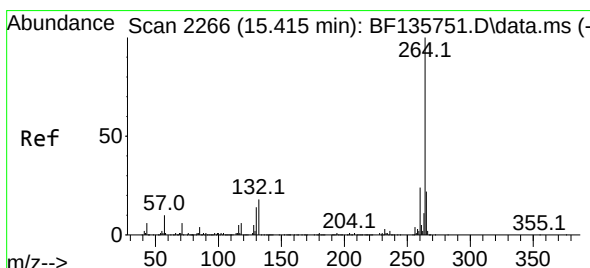
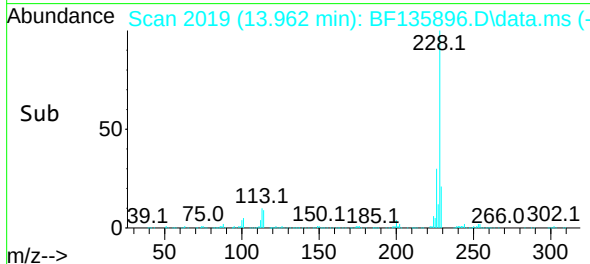
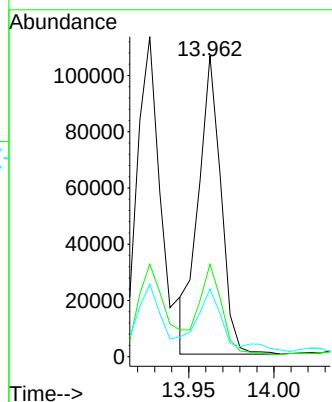
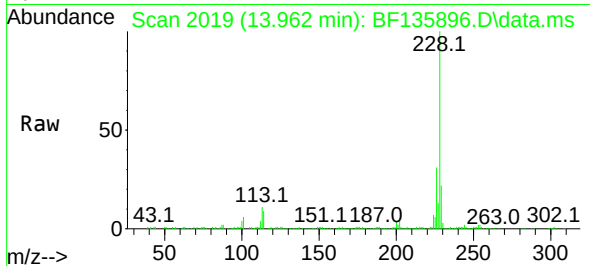
ClientSampleId :

R-2(5-10)DL

Tgt Ion:228 Resp: 97684
Ion Ratio Lower Upper
228 100
226 30.7 24.4 36.6
229 22.5 15.7 23.5

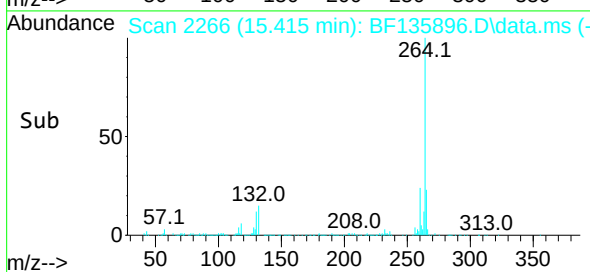
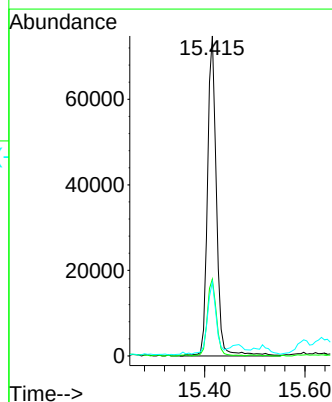
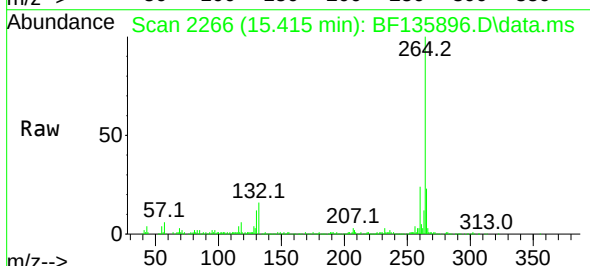
Manual Integrations
APPROVED

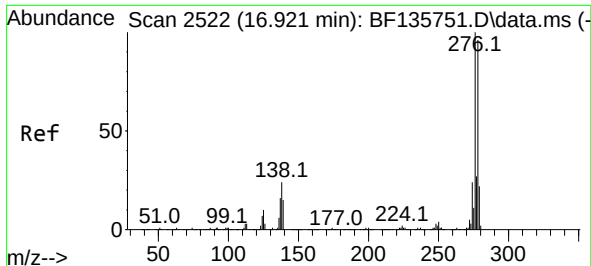
Reviewed By :Yogesh Patel 10/20/2023
Supervised By :mohammad ahmed 10/20/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2266
Delta R.T. -0.006 min
Lab File: BF135896.D
Acq: 19 Oct 2023 20:20

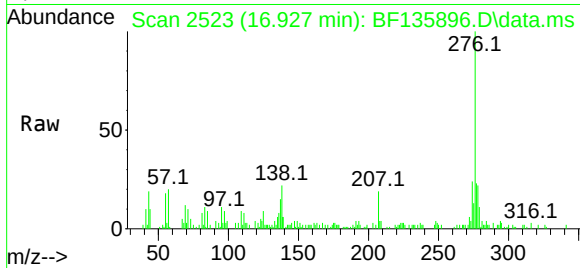
Tgt Ion:264 Resp: 93169
Ion Ratio Lower Upper
264 100
260 24.0 19.2 28.8
265 23.2 17.4 26.2





#87
Indeno(1,2,3-cd)pyrene
Concen: 4.838 ng
RT: 16.927 min Scan# 2193
Delta R.T. -0.006 min
Lab File: BF135896.D
Acq: 19 Oct 2023 20:20

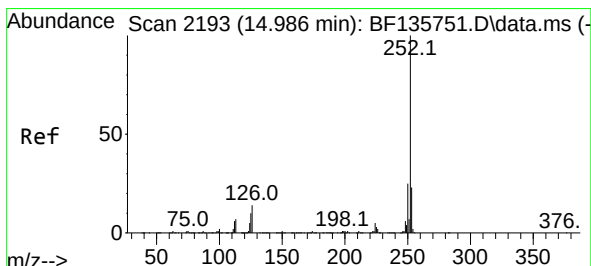
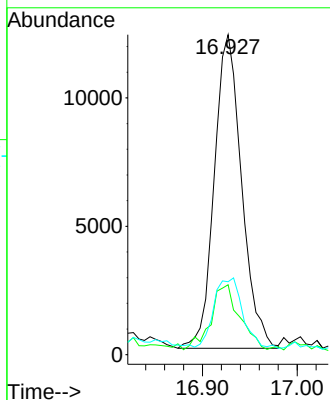
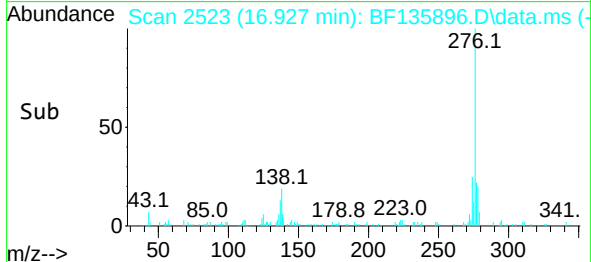
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL



Tgt Ion:276 Resp: 2456
Ion Ratio Lower Upper
276 100
138 21.7 19.8 29.6
277 23.4 20.2 30.4

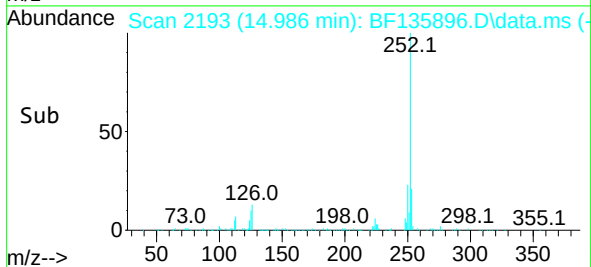
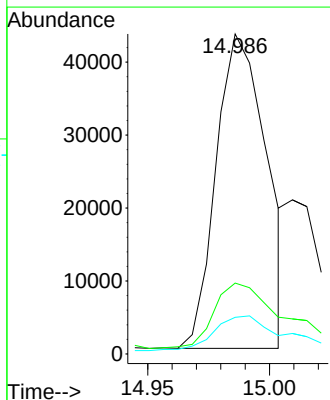
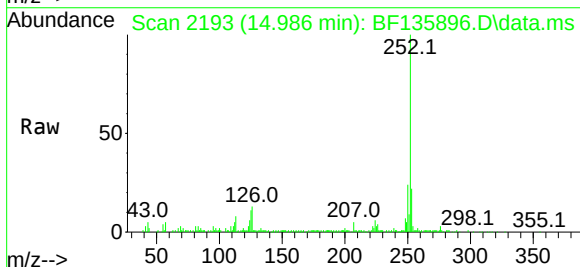
Manual Integrations
APPROVED

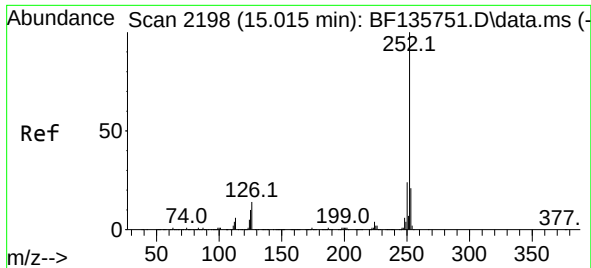
Reviewed By :Yogesh Patel 10/20/2023
Supervised By :mohammad ahmed 10/20/2023



#88
Benzo(b)fluoranthene
Concen: 11.903 ng m
RT: 14.986 min Scan# 2193
Delta R.T. -0.006 min
Lab File: BF135896.D
Acq: 19 Oct 2023 20:20

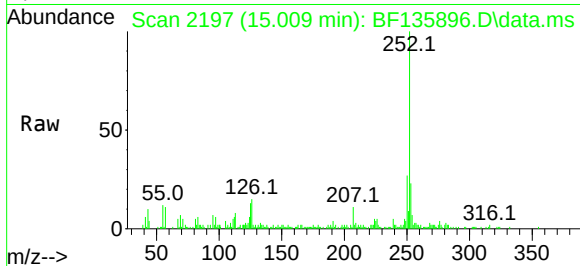
Tgt Ion:252 Resp: 62064
Ion Ratio Lower Upper
252 100
253 22.2 18.2 27.2
125 11.5 8.2 12.2





#89
Benzo(k)fluoranthene
Concen: 3.921 ng m
RT: 15.009 min Scan# 2198
Delta R.T. -0.012 min
Lab File: BF135896.D
Acq: 19 Oct 2023 20:20

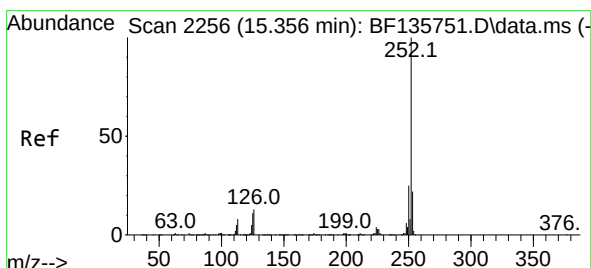
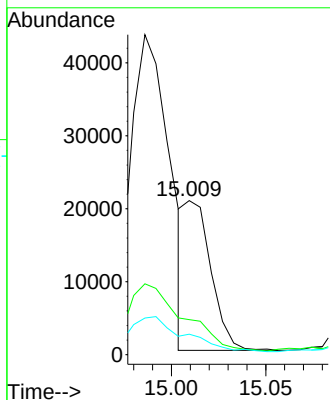
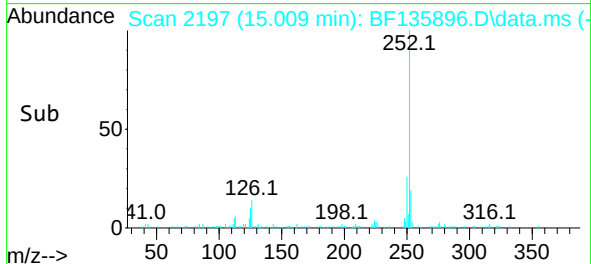
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)DL



Tgt Ion:252 Resp: 19849
Ion Ratio Lower Upper
252 100
253 22.7 17.4 26.0
125 13.3 8.3 12.5

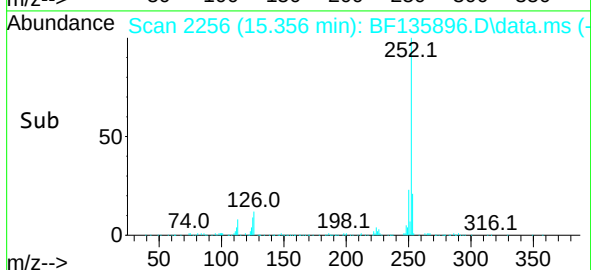
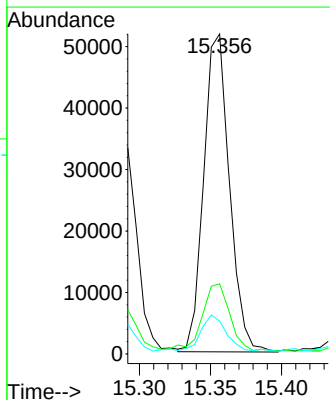
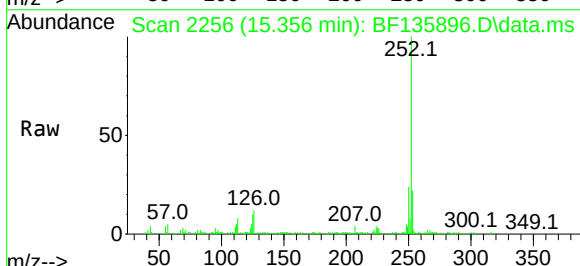
Manual Integrations
APPROVED

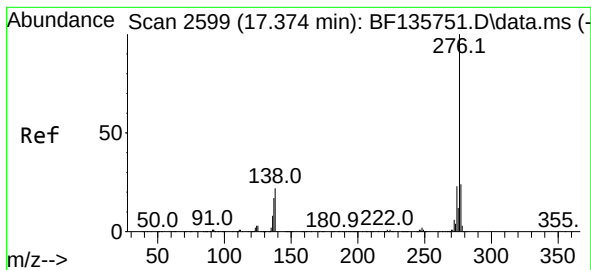
Reviewed By :Yogesh Patel 10/20/2023
Supervised By :mohammad ahmed 10/20/2023



#90
Benzo(a)pyrene
Concen: 13.294 ng
RT: 15.356 min Scan# 2256
Delta R.T. -0.006 min
Lab File: BF135896.D
Acq: 19 Oct 2023 20:20

Tgt Ion:252 Resp: 65183
Ion Ratio Lower Upper
252 100
253 22.0 17.4 26.2
125 10.3 8.8 13.2





#92

Benzo(g,h,i)perylene

Concen: 5.825 ng

RT: 17.386 min Scan# 20

Delta R.T. -0.000 min

Lab File: BF135896.D

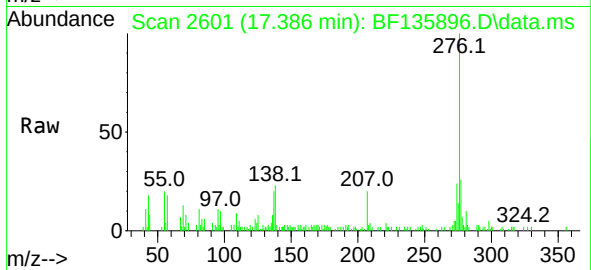
Acq: 19 Oct 2023 20:20

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)DL



Tgt Ion:276 Resp: 2490

Ion Ratio Lower Upper

276 100

277 26.3 19.4 29.2

138 22.6 17.3 25.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/20/2023

Supervised By :mohammad ahmed 10/20/2023

