

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101623\
 Data File : BF135795.D
 Acq On : 17 Oct 2023 00:58
 Operator : CG\JU
 Sample : 04704-02
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 R-1(10-15)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/17/2023
 Supervised By :mohammad ahmed 10/17/2023

Quant Time: Oct 17 02:00:51 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

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.734	152	110006	20.000	ng	-0.01
21) Naphthalene-d8	8.016	136	414531	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	218372	20.000	ng	-0.01
64) Phenanthrene-d10	11.274	188	361401	20.000	ng	0.00
76) Chrysene-d12	13.939	240	209381	20.000	ng	-0.01
86) Perylene-d12	15.409	264	215561	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	701781	102.566	ng	0.00
7) Phenol-d6	6.392	99	865452	101.374	ng	0.00
23) Nitrobenzene-d5	7.304	82	533564	70.792	ng	-0.01
42) 2,4,6-Tribromophenol	10.575	330	197658	94.327	ng	-0.01
45) 2-Fluorobiphenyl	9.092	172	930878	66.649	ng	-0.01
79) Terphenyl-d14	12.868	244	747894	66.149	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.039	128	735500	36.376	ng	100
37) 2-Methylnaphthalene	8.728	142	261876	19.658	ng	99
38) 1-Methylnaphthalene	8.828	142	320485	26.084	ng	100
46) 1,1'-Biphenyl	9.198	154	80747	4.827	ng	99
49) Acenaphthylene	9.633	152	177727	8.908	ng	# 96
52) Acenaphthene	9.804	154	181642	15.190	ng	99
55) Dibenzofuran	9.980	168	230198	12.758	ng	96
58) Fluorene	10.327	166	573060	40.570	ng	98
71) Phenanthrene	11.304	178	2067757	119.435	ng	99
72) Anthracene	11.351	178	478796	26.689	ng	99
73) Carbazole	11.516	167	127025	7.592	ng	99
75) Fluoranthene	12.498	202	1210658	63.006	ng	100
78) Pyrene	12.727	202	1205669	72.463	ng	100
81) Benzo(a)anthracene	13.927	228	507392	36.893	ng	98
83) Chrysene	13.963	228	425478	31.941	ng	97
87) Indeno(1,2,3-cd)pyrene	16.915	276	143879	12.250	ng	96
88) Benzo(b)fluoranthene	14.986	252	435422m	36.092	ng	
89) Benzo(k)fluoranthene	15.009	252	127693m	10.902	ng	
90) Benzo(a)pyrene	15.351	252	366960	32.347	ng	98
91) Dibenzo(a,h)anthracene	16.915	278	38755	4.025	ng	# 82
92) Benzo(g,h,i)perylene	17.374	276	132012	13.347	ng	98

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

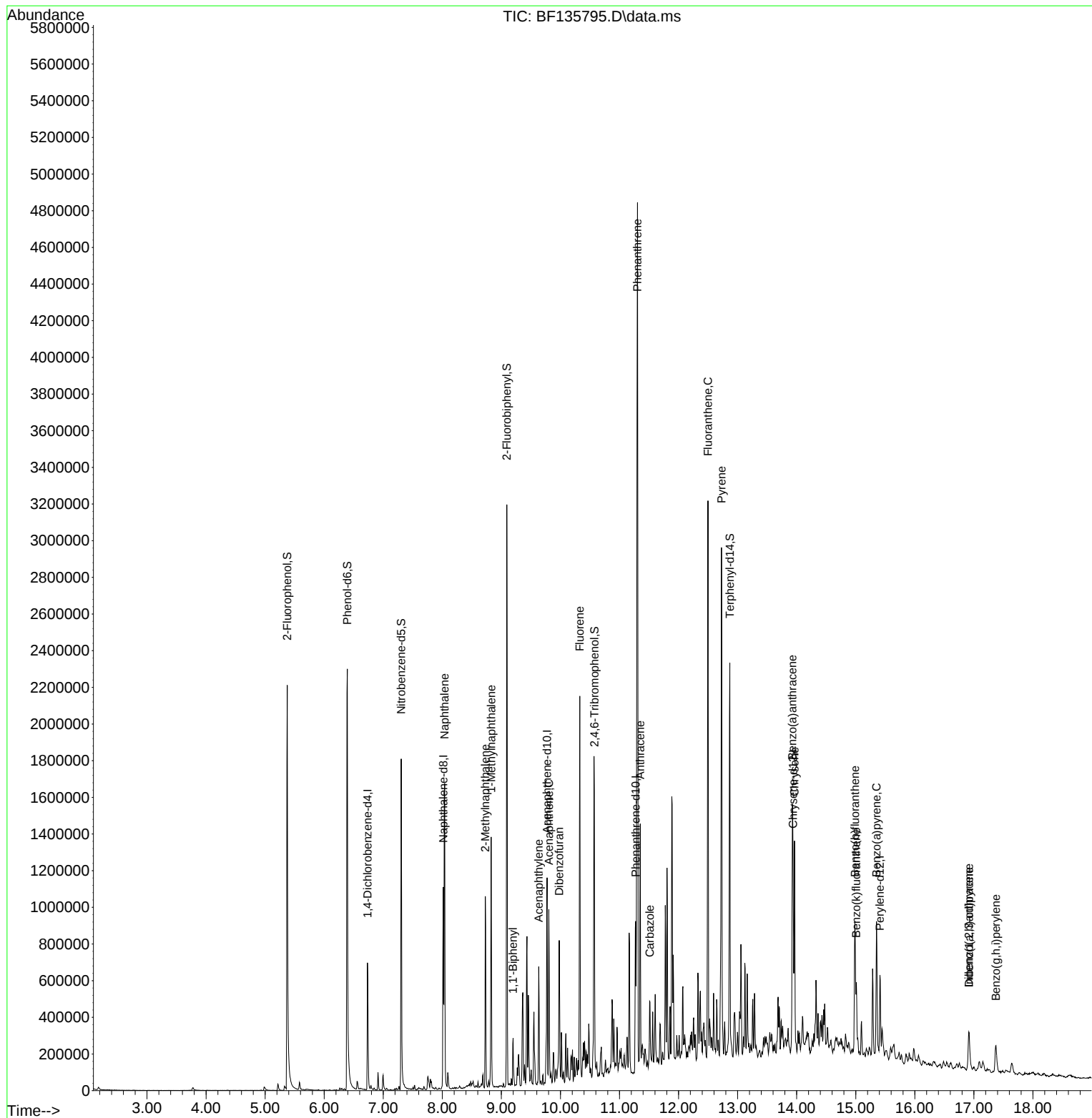
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101623\
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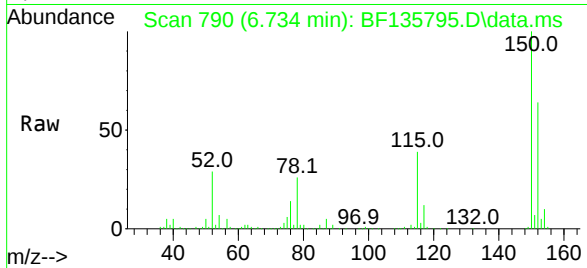
Reviewed By :Yogesh Patel 10/17/2023
Supervised By :mohammad ahmed 10/17/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.734 min Scan# 791
Delta R.T. -0.012 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58

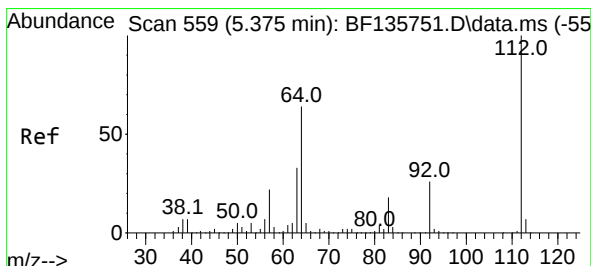
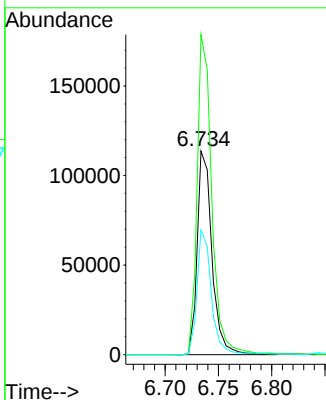
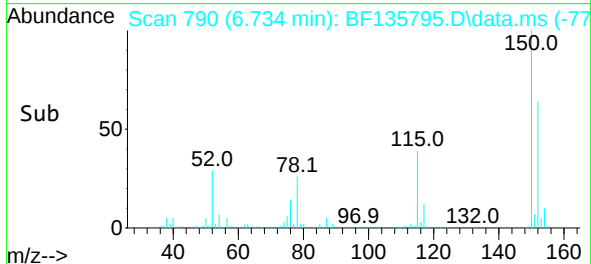
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)



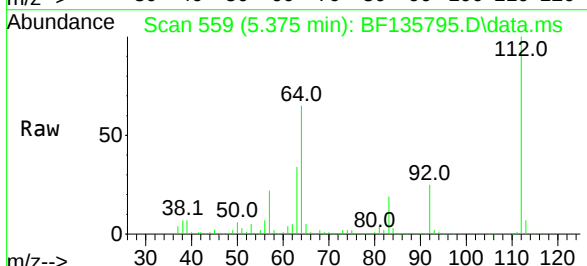
Tgt Ion:152 Resp: 110000
Ion Ratio Lower Upper
152 100
150 157.2 124.5 186.7
115 61.2 49.0 73.4

Manual Integrations
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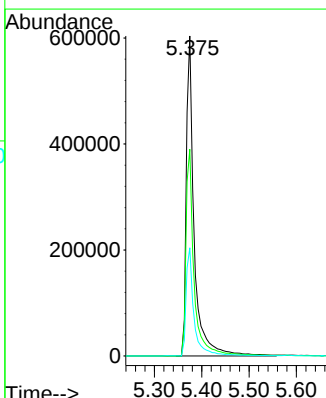
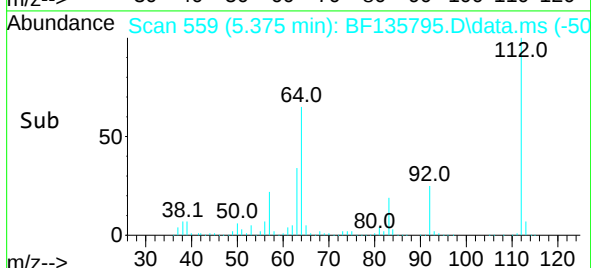
Reviewed By :Yogesh Patel 10/17/2023
Supervised By :mohammad ahmed 10/17/2023

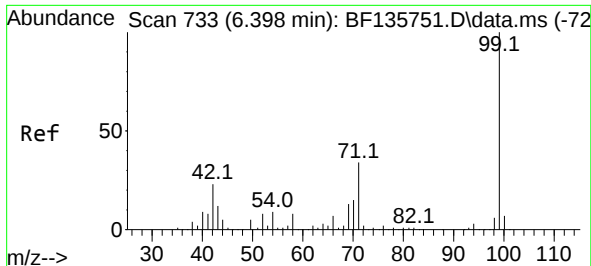


#5
2-Fluorophenol
Concen: 102.566 ng
RT: 5.375 min Scan# 559
Delta R.T. -0.000 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58



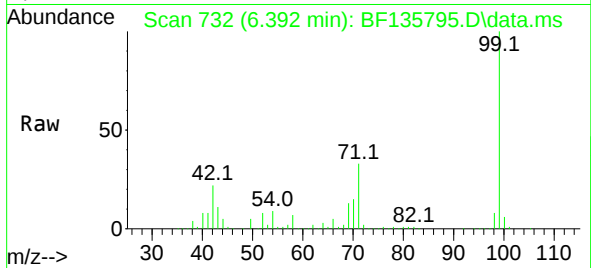
Tgt Ion:112 Resp: 701781
Ion Ratio Lower Upper
112 100
64 64.6 51.2 76.8
63 33.8 26.1 39.1





#7
Phenol-d6
Concen: 101.374 ng
RT: 6.392 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58

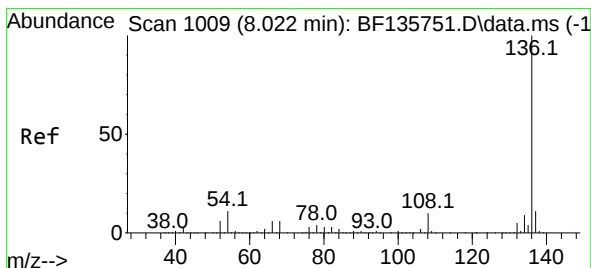
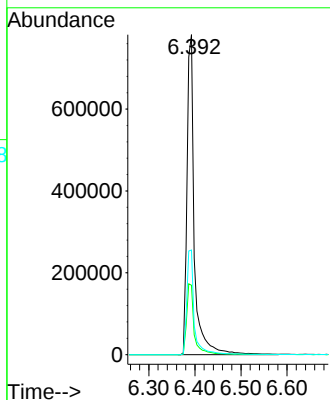
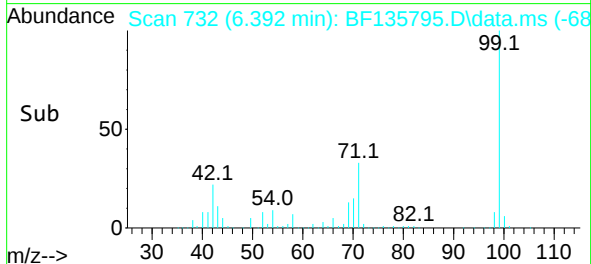
Instrument :
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ClientSampleId :
R-1(10-15)



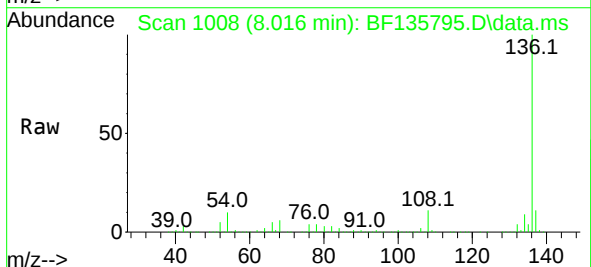
Tgt Ion: 99 Resp: 865452
Ion Ratio Lower Upper
99 100
42 21.7 18.4 27.6
71 32.7 27.2 40.8

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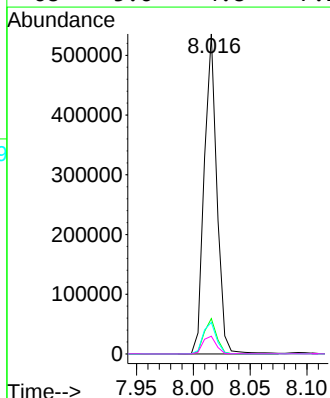
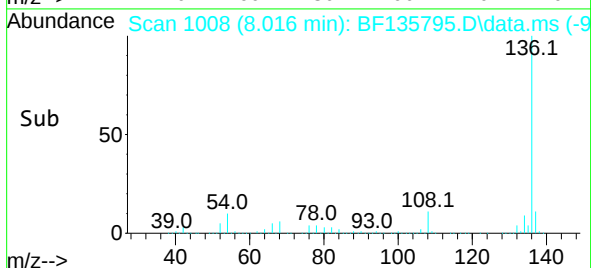
Reviewed By :Yogesh Patel 10/17/2023
Supervised By :mohammad ahmed 10/17/2023

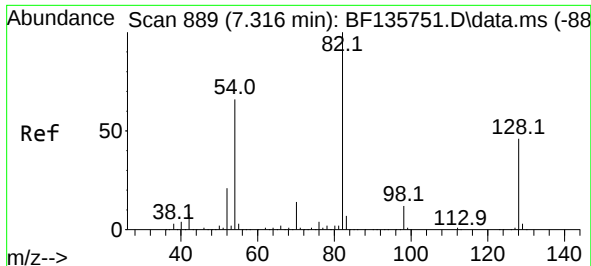


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58



Tgt Ion:136 Resp: 414531
Ion Ratio Lower Upper
136 100
137 11.1 8.6 12.8
54 9.9 8.5 12.7
68 5.6 4.8 7.2





#23

Nitrobenzene-d5

Concen: 70.792 ng

RT: 7.304 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF135795.D

Acq: 17 Oct 2023 00:58

Instrument :

BNA_F

ClientSampleId :

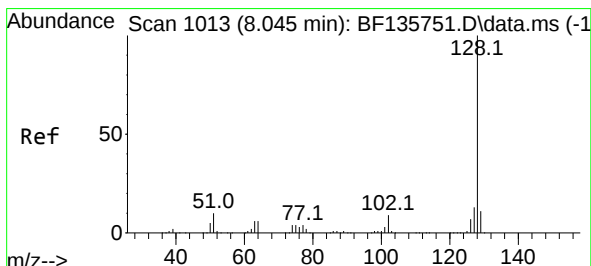
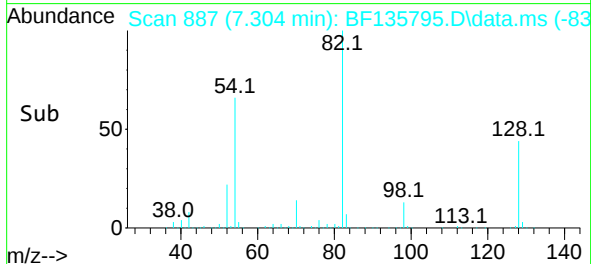
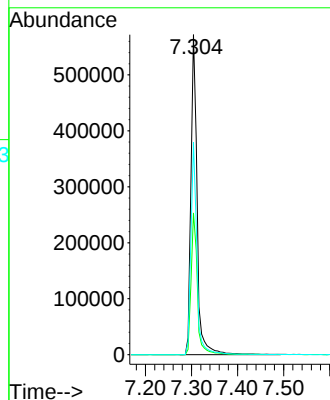
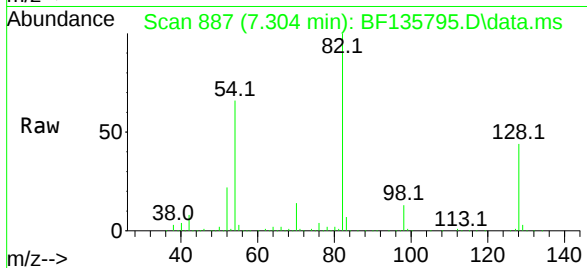
R-1(10-15)

Tgt Ion: 82 Resp: 533564
 Ion Ratio Lower Upper
 82 100
 128 44.3 37.0 55.6
 54 66.4 52.8 79.2

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 Supervised By :mohammad ahmed 10/17/2023



#31

Naphthalene

Concen: 36.376 ng

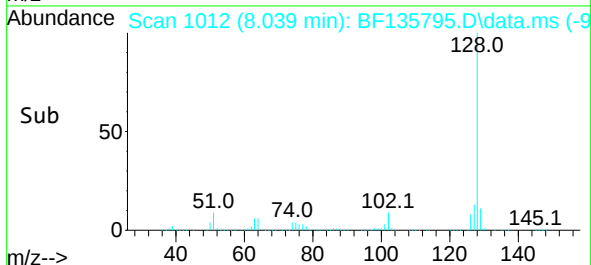
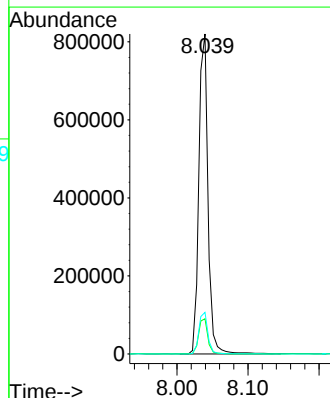
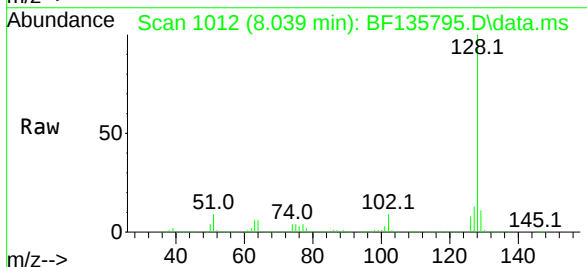
RT: 8.039 min Scan# 1012

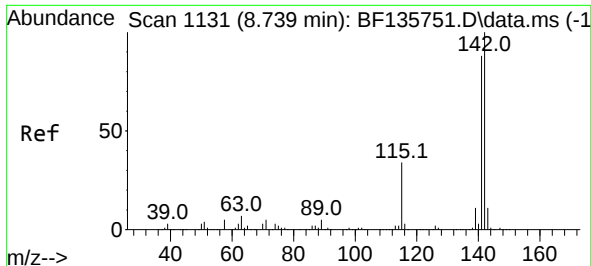
Delta R.T. -0.006 min

Lab File: BF135795.D

Acq: 17 Oct 2023 00:58

Tgt Ion:128 Resp: 735500
 Ion Ratio Lower Upper
 128 100
 129 11.0 8.7 13.1
 127 13.0 10.2 15.4





#37

2-Methylnaphthalene

Concen: 19.658 ng

RT: 8.728 min Scan# 1129

Delta R.T. -0.012 min

Lab File: BF135795.D

Acq: 17 Oct 2023 00:58

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)

Tgt Ion:142 Resp: 261870

Ion Ratio Lower Upper

142 100

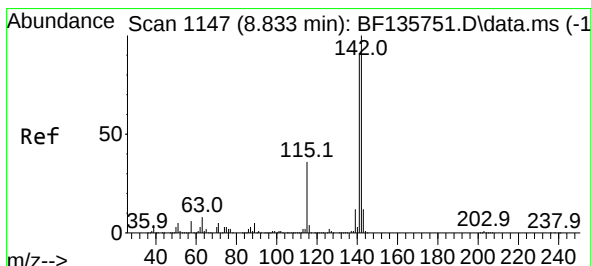
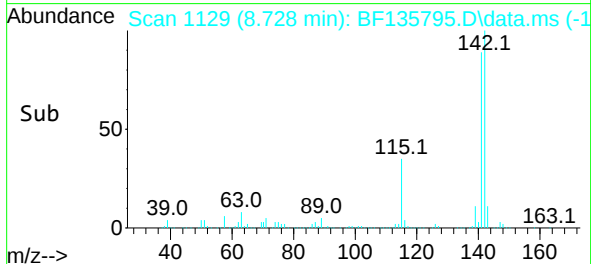
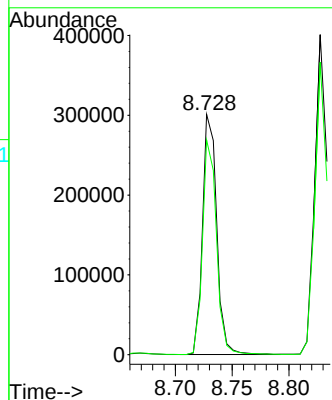
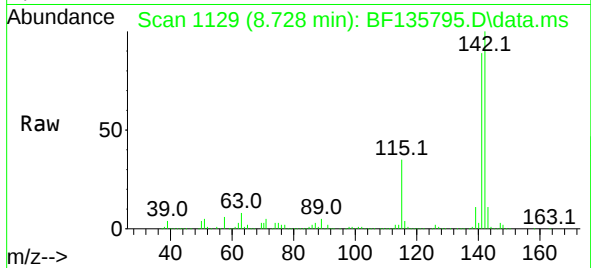
141 89.4 70.6 105.8

Manual Integrations

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Supervised By :mohammad ahmed 10/17/2023



#38

1-Methylnaphthalene

Concen: 26.084 ng

RT: 8.828 min Scan# 1146

Delta R.T. -0.012 min

Lab File: BF135795.D

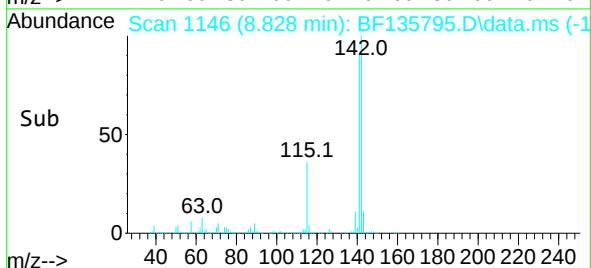
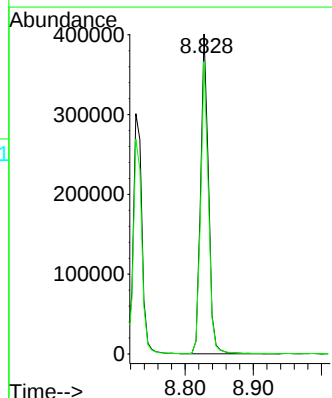
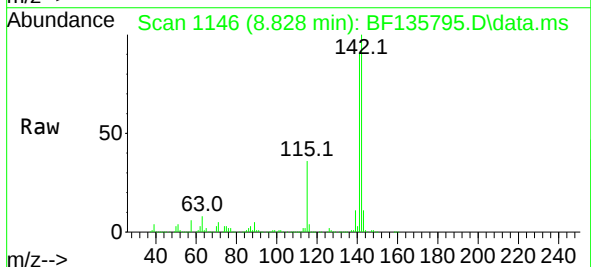
Acq: 17 Oct 2023 00:58

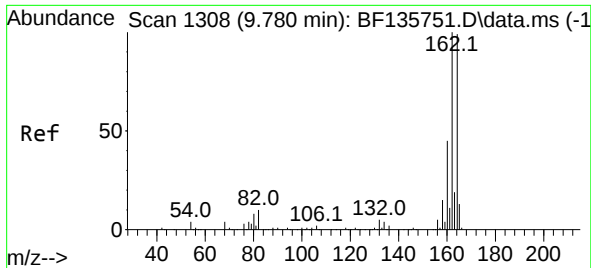
Tgt Ion:142 Resp: 320485

Ion Ratio Lower Upper

142 100

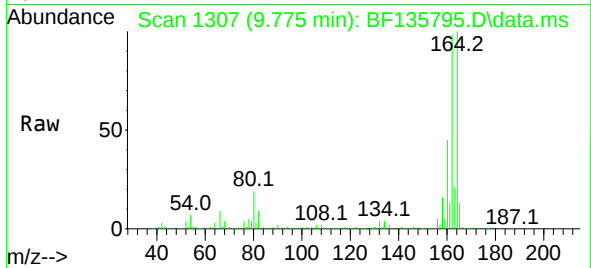
141 91.3 72.7 109.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.775 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58

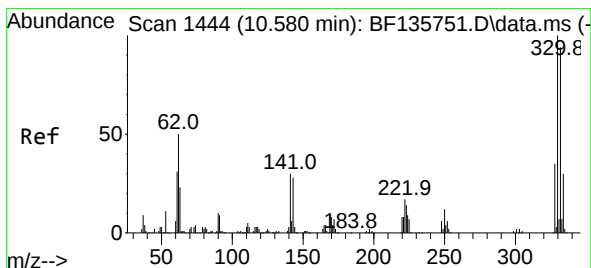
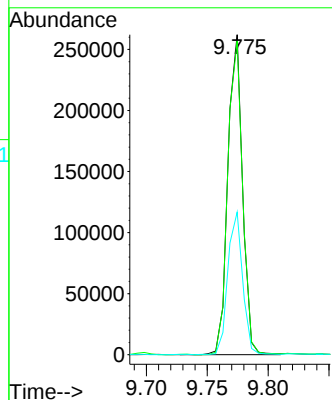
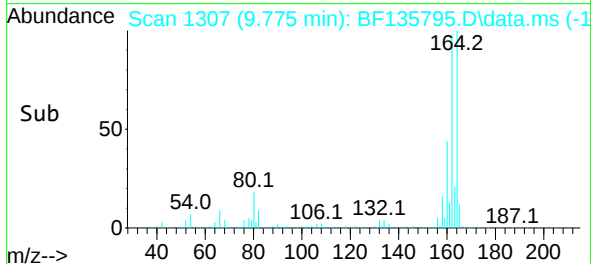
Instrument :
BNA_F
ClientSampleId :
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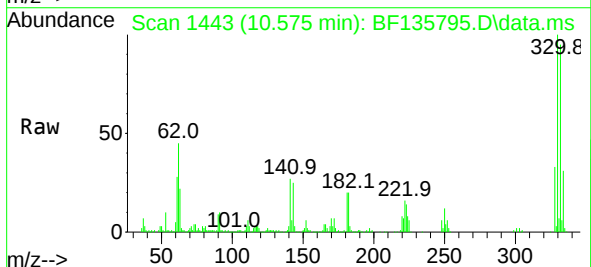
Tgt Ion:164 Resp: 218372
Ion Ratio Lower Upper
164 100
162 98.1 80.8 121.2
160 44.5 36.6 54.8

Manual Integrations
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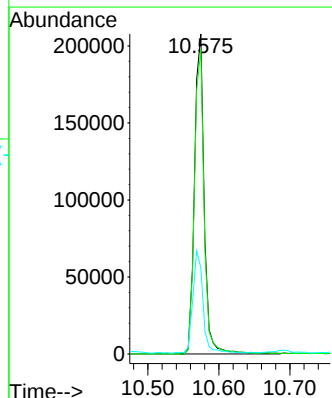
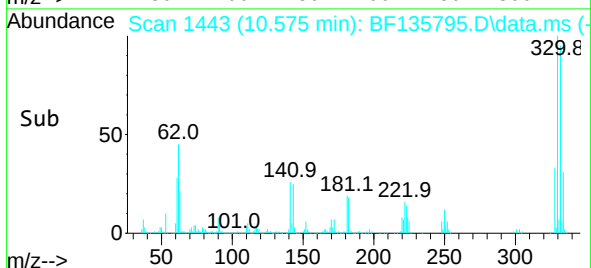
Reviewed By :Yogesh Patel 10/17/2023
Supervised By :mohammad ahmed 10/17/2023

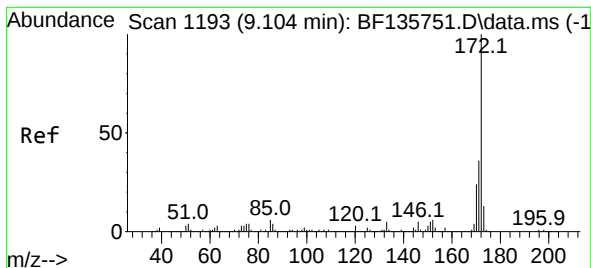


#42
2,4,6-Tribromophenol
Concen: 94.327 ng
RT: 10.575 min Scan# 1443
Delta R.T. -0.012 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58



Tgt Ion:330 Resp: 197658
Ion Ratio Lower Upper
330 100
332 94.9 75.0 112.4
141 33.8 25.8 38.6





#45

2-Fluorobiphenyl

Concen: 66.649 ng

RT: 9.092 min Scan# 1191

Delta R.T. -0.012 min

Lab File: BF135795.D

Acq: 17 Oct 2023 00:58

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)

Tgt Ion:172 Resp: 930878

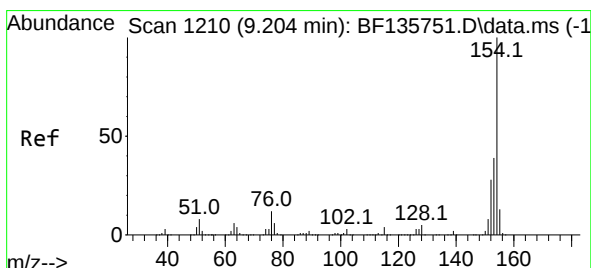
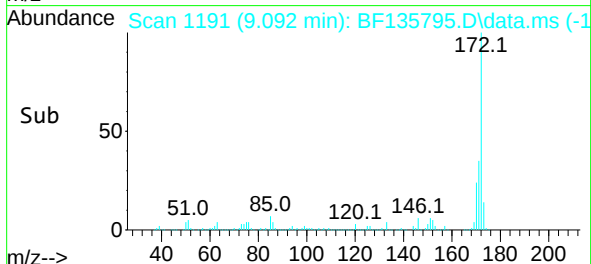
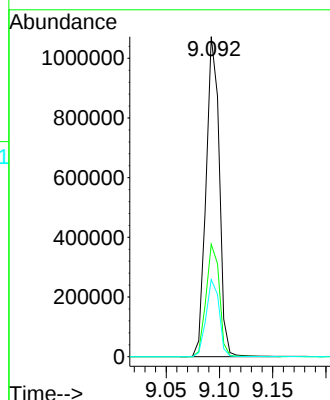
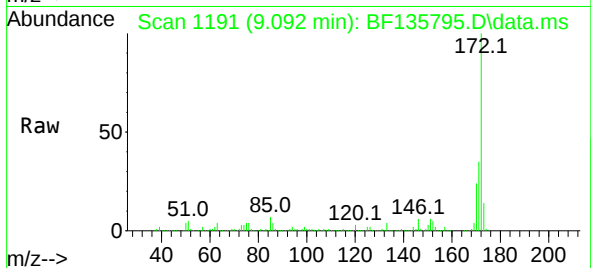
Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.4	42.6
170	24.1	18.8	28.2

Manual Integrations

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Supervised By :mohammad ahmed 10/17/2023



#46

1,1'-Biphenyl

Concen: 4.827 ng

RT: 9.198 min Scan# 1209

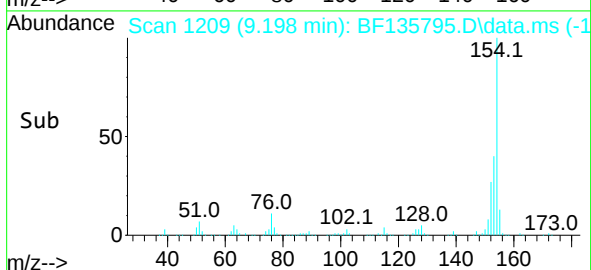
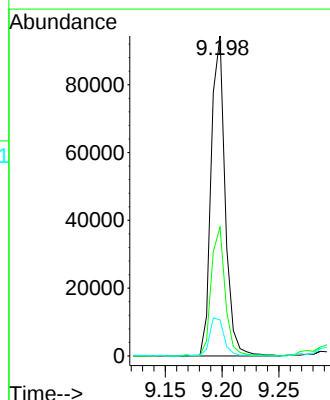
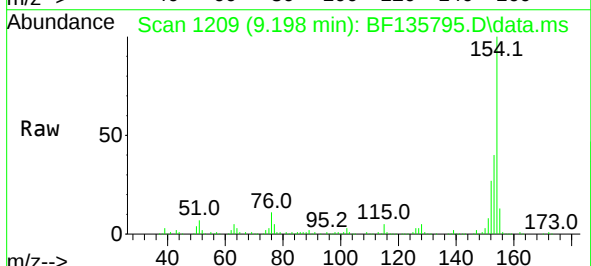
Delta R.T. -0.006 min

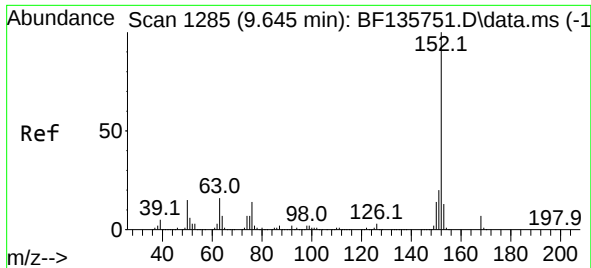
Lab File: BF135795.D

Acq: 17 Oct 2023 00:58

Tgt Ion:154 Resp: 80747

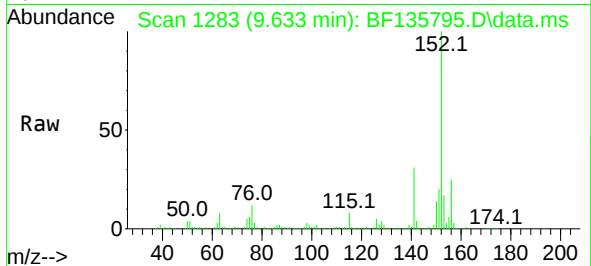
Ion	Ratio	Lower	Upper
154	100		
153	40.3	19.4	59.4
76	11.2	0.0	31.7





#49
Acenaphthylene
Concen: 8.908 ng
RT: 9.633 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58

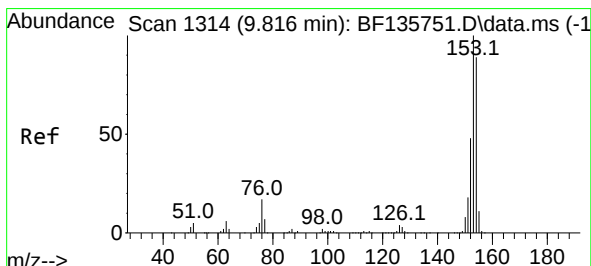
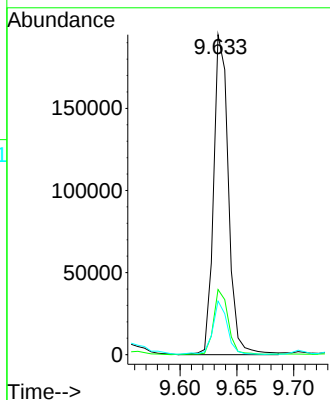
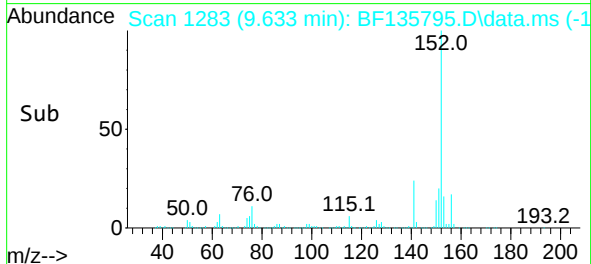
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)



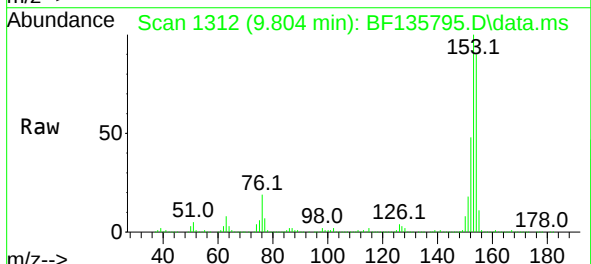
Tgt Ion:152 Resp: 17772
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.2
153 16.8 10.2 15.4

Manual Integrations
APPROVED

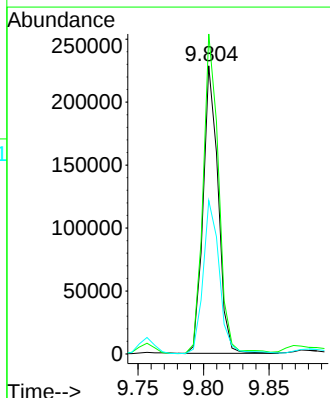
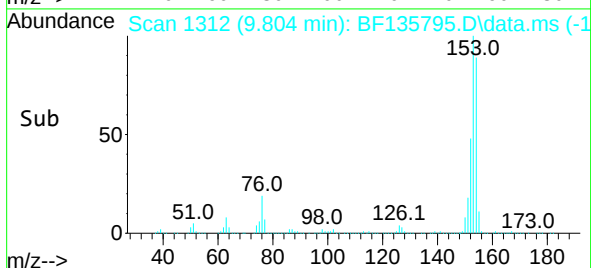
Reviewed By :Yogesh Patel 10/17/2023
Supervised By :mohammad ahmed 10/17/2023

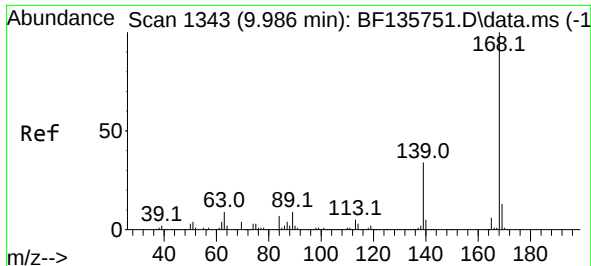


#52
Acenaphthene
Concen: 15.190 ng
RT: 9.804 min Scan# 1312
Delta R.T. -0.012 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58



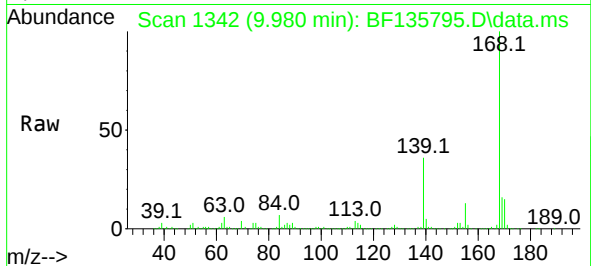
Tgt Ion:154 Resp: 181642
Ion Ratio Lower Upper
154 100
153 111.0 90.1 135.1
152 53.2 43.1 64.7





#55
Dibenzenofuran
Concen: 12.758 ng
RT: 9.980 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58

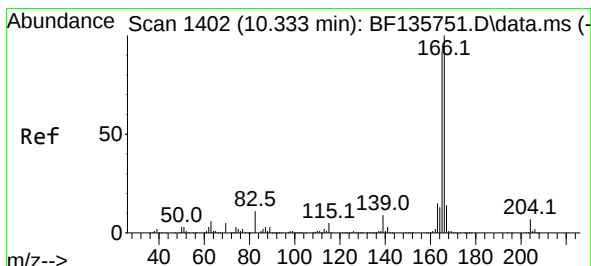
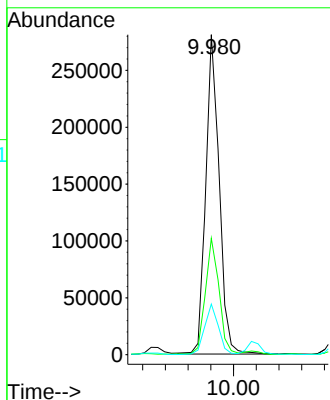
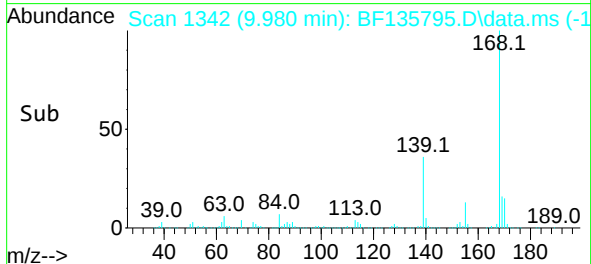
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)



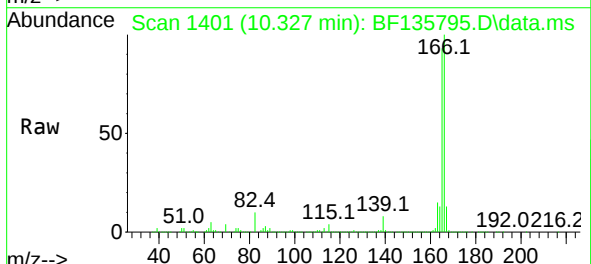
Tgt Ion:168 Resp: 230198
Ion Ratio Lower Upper
168 100
139 36.3 31.0 46.4
169 15.8 10.7 16.1

Manual Integrations
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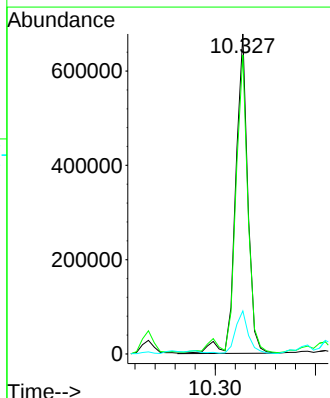
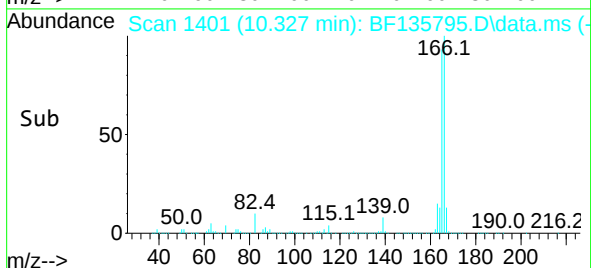
Reviewed By :Yogesh Patel 10/17/2023
Supervised By :mohammad ahmed 10/17/2023

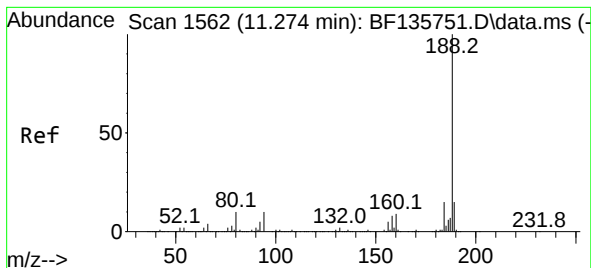


#58
Fluorene
Concen: 40.570 ng
RT: 10.327 min Scan# 1401
Delta R.T. -0.012 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58



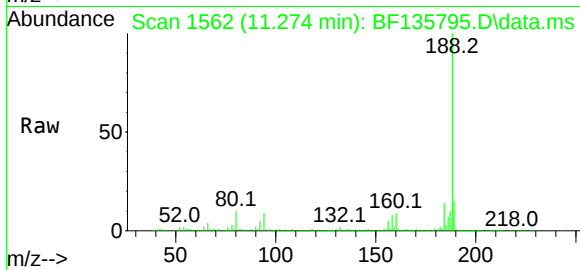
Tgt Ion:166 Resp: 573060
Ion Ratio Lower Upper
166 100
165 93.4 73.4 110.0
167 13.5 11.0 16.6





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.274 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58

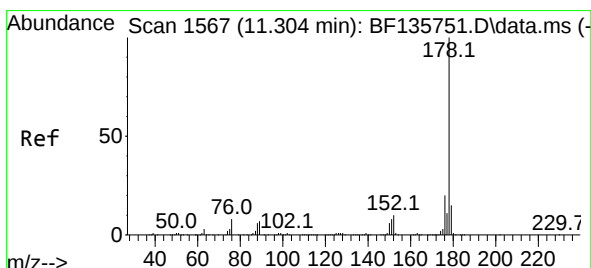
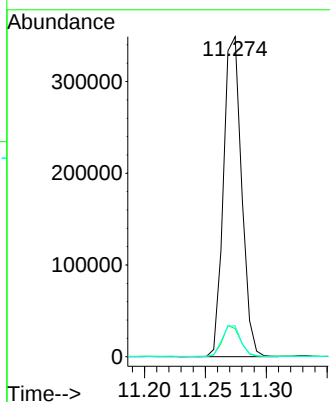
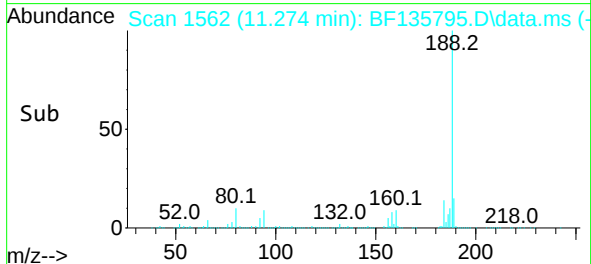
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)



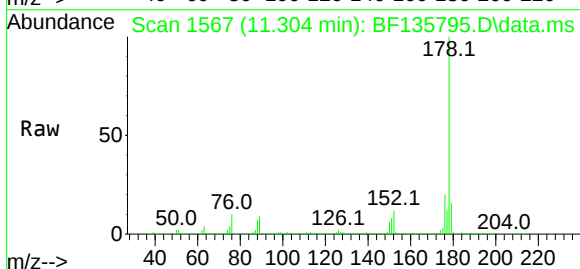
Tgt Ion:188 Resp: 36140
Ion Ratio Lower Upper
188 100
94 8.8 8.0 12.0
80 9.7 8.3 12.5

Manual Integrations
APPROVED

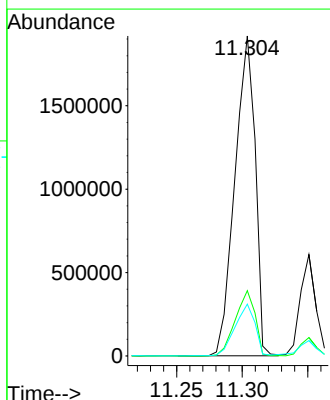
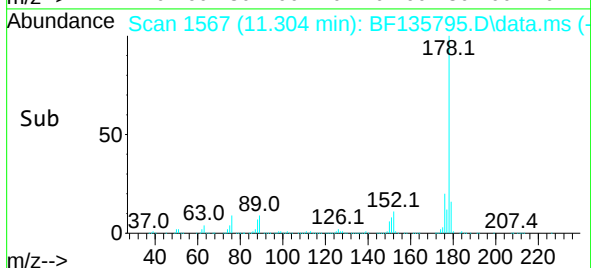
Reviewed By :Yogesh Patel 10/17/2023
Supervised By :mohammad ahmed 10/17/2023

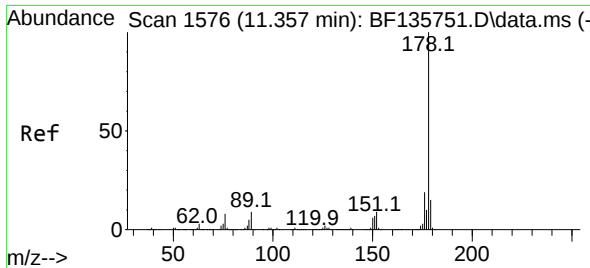


#71
Phenanthrene
Concen: 119.435 ng
RT: 11.304 min Scan# 1567
Delta R.T. -0.000 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58



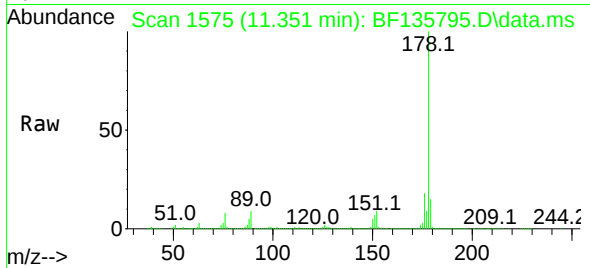
Tgt Ion:178 Resp: 2067757
Ion Ratio Lower Upper
178 100
176 20.4 16.0 24.0
179 16.2 12.2 18.4





#72
 Anthracene
 Concen: 26.689 ng
 RT: 11.351 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF135795.D
 Acq: 17 Oct 2023 00:58

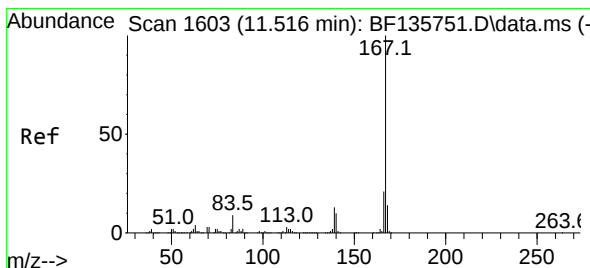
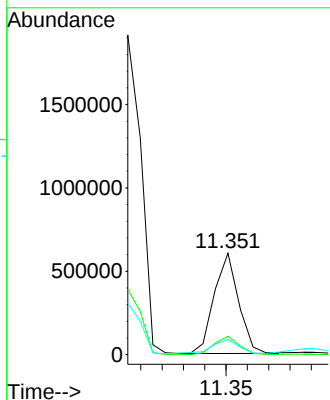
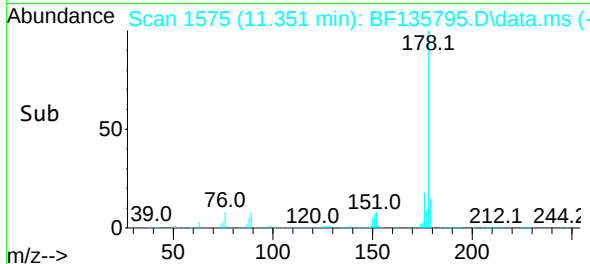
Instrument :
 BNA_F
 ClientSampleId :
 R-1(10-15)



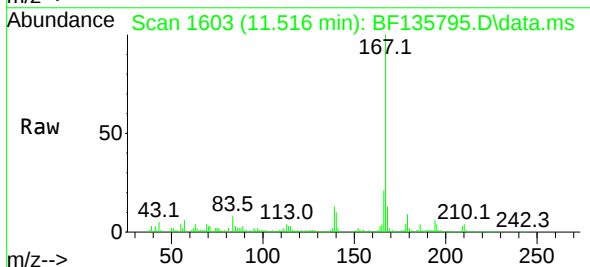
Tgt Ion:178 Resp: 478790
 Ion Ratio Lower Upper
 178 100
 176 18.2 15.1 22.7
 179 15.1 12.3 18.5

Manual Integrations
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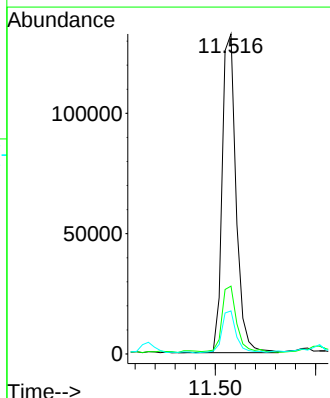
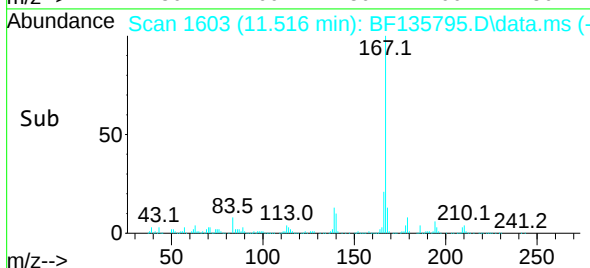
Reviewed By :Yogesh Patel 10/17/2023
 Supervised By :mohammad ahmed 10/17/2023

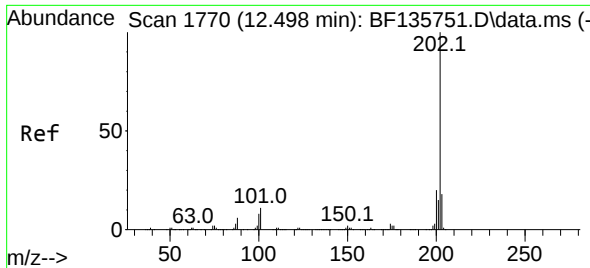


#73
 Carbazole
 Concen: 7.592 ng
 RT: 11.516 min Scan# 1603
 Delta R.T. -0.006 min
 Lab File: BF135795.D
 Acq: 17 Oct 2023 00:58



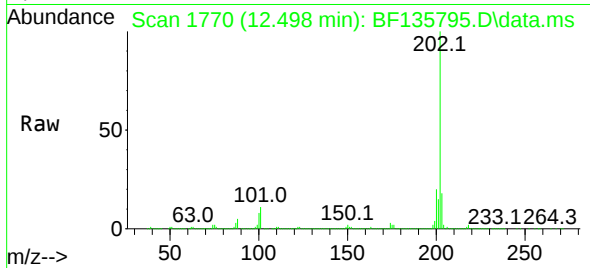
Tgt Ion:167 Resp: 127025
 Ion Ratio Lower Upper
 167 100
 166 21.2 17.1 25.7
 139 13.5 10.2 15.4





#75
Fluoranthene
Concen: 63.006 ng
RT: 12.498 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58

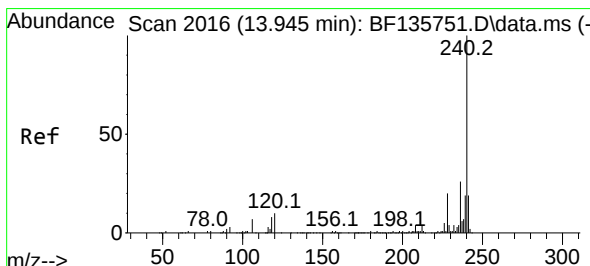
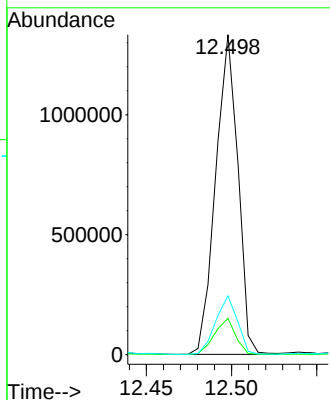
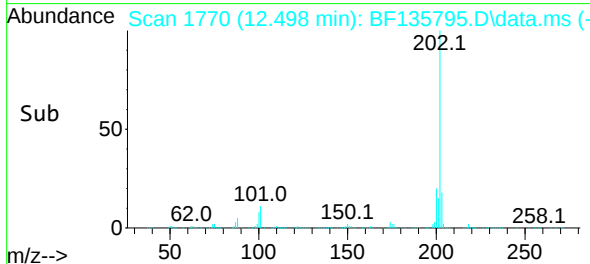
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)



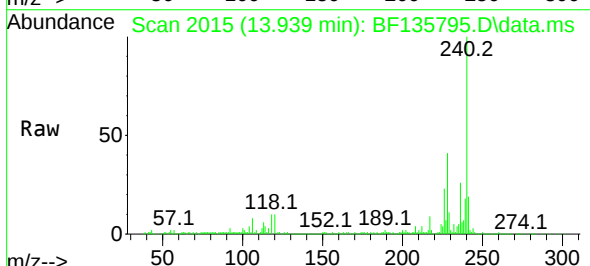
Tgt Ion:202 Resp: 1210658
Ion Ratio Lower Upper
202 100
101 11.3 0.0 31.5
203 18.4 0.0 38.3

Manual Integrations
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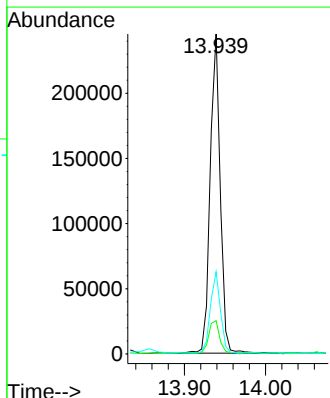
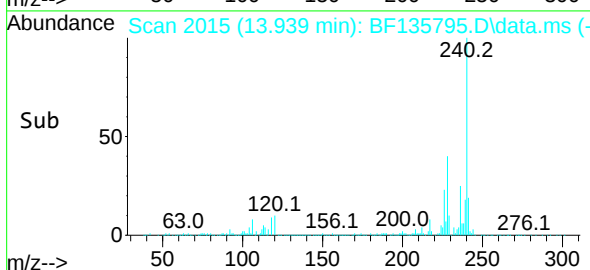
Reviewed By :Yogesh Patel 10/17/2023
Supervised By :mohammad ahmed 10/17/2023

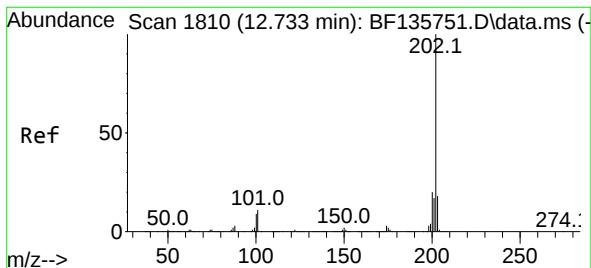


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2015
Delta R.T. -0.012 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58



Tgt Ion:240 Resp: 209381
Ion Ratio Lower Upper
240 100
120 10.4 8.2 12.2
236 25.7 21.2 31.8





#78

Pyrene

Concen: 72.463 ng

RT: 12.727 min Scan# 1809

Delta R.T. -0.006 min

Lab File: BF135795.D

Acq: 17 Oct 2023 00:58

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)

Tgt Ion:202 Resp: 120566

Ion Ratio Lower Upper

202 100

200 20.2 16.1 24.1

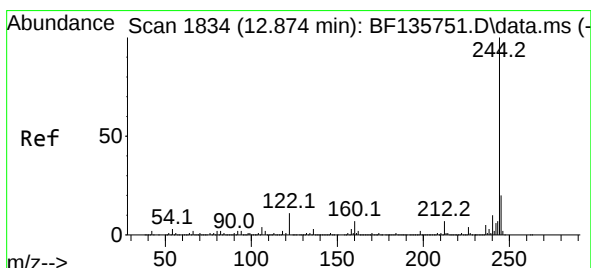
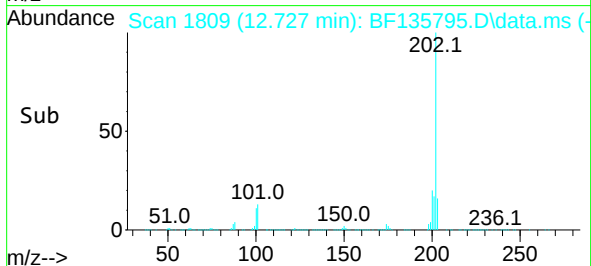
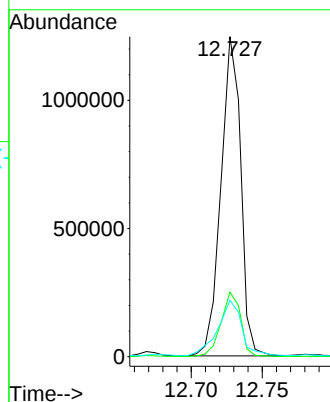
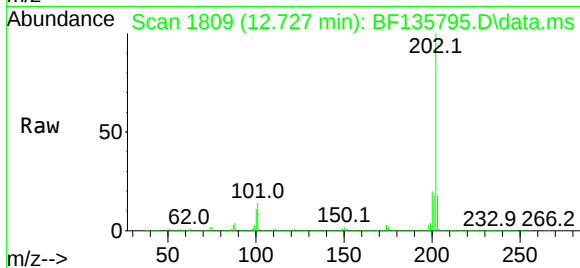
203 17.7 14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/17/2023

Supervised By :mohammad ahmed 10/17/2023



#79

Terphenyl-d14

Concen: 66.149 ng

RT: 12.868 min Scan# 1833

Delta R.T. -0.012 min

Lab File: BF135795.D

Acq: 17 Oct 2023 00:58

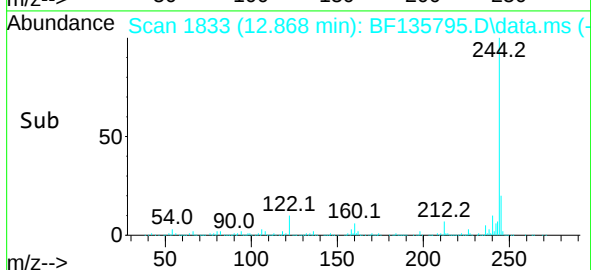
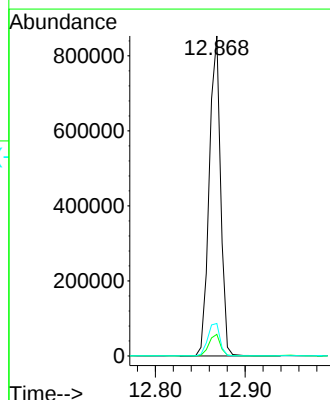
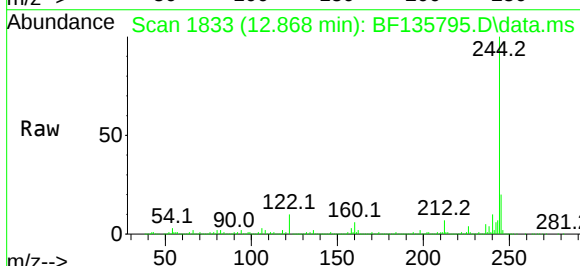
Tgt Ion:244 Resp: 747894

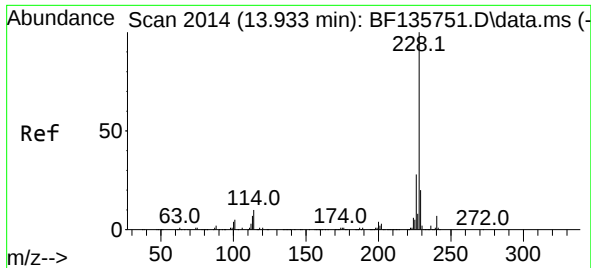
Ion Ratio Lower Upper

244 100

212 6.8 5.6 8.4

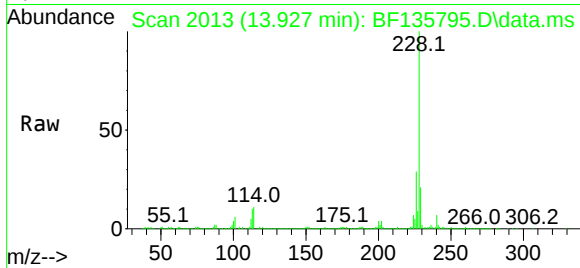
122 10.1 9.0 13.6





#81
Benzo(a)anthracene
Concen: 36.893 ng
RT: 13.927 min Scan# 2013
Delta R.T. -0.012 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58

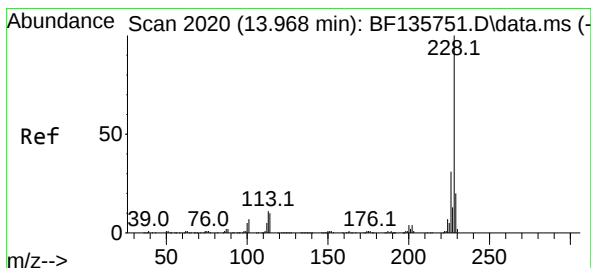
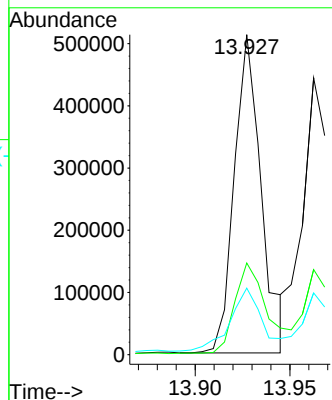
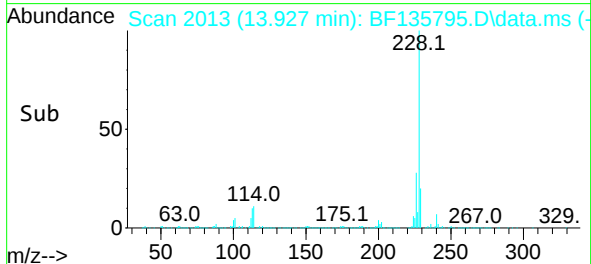
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)



Tgt Ion:228 Resp: 507392
Ion Ratio Lower Upper
228 100
226 28.6 22.2 33.2
229 20.8 16.1 24.1

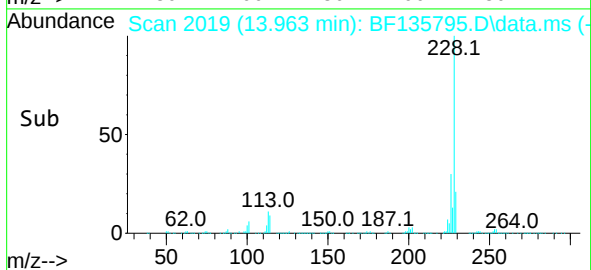
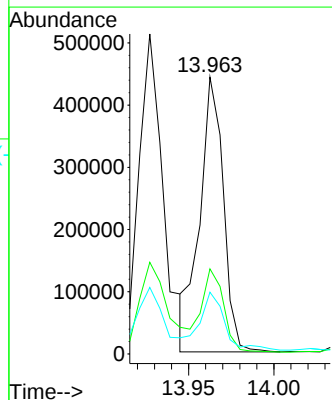
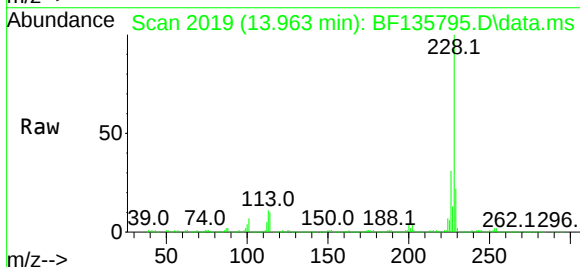
Manual Integrations
APPROVED

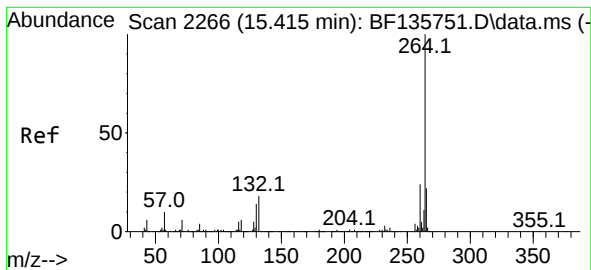
Reviewed By :Yogesh Patel 10/17/2023
Supervised By :mohammad ahmed 10/17/2023



#83
Chrysene
Concen: 31.941 ng
RT: 13.963 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58

Tgt Ion:228 Resp: 425478
Ion Ratio Lower Upper
228 100
226 30.8 24.4 36.6
229 22.3 15.7 23.5





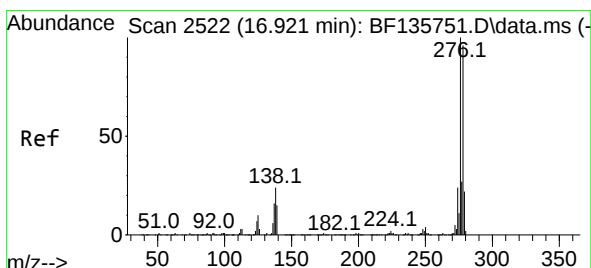
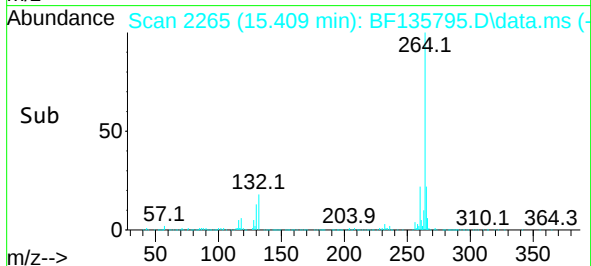
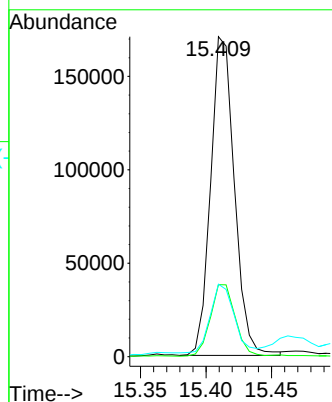
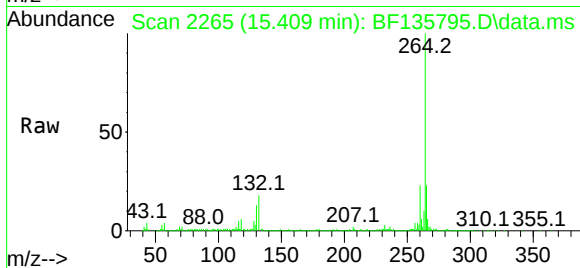
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.409 min Scan# 2156
Delta R.T. -0.012 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58

Instrument :
BNA_F
ClientSampleId :
R-1(10-15)

Tgt Ion:264 Resp: 21556
Ion Ratio Lower Upper
264 100
260 22.5 19.2 28.8
265 22.7 17.4 26.2

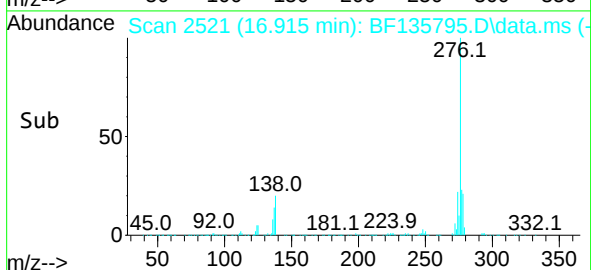
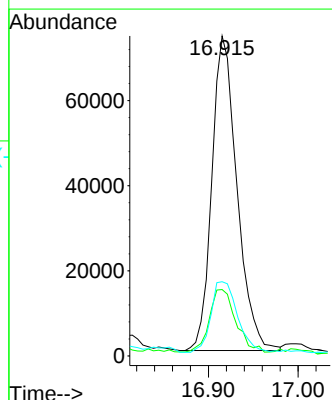
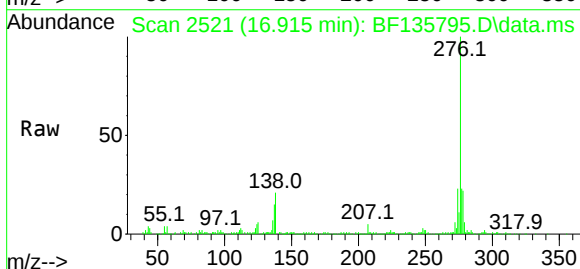
Manual Integrations
APPROVED

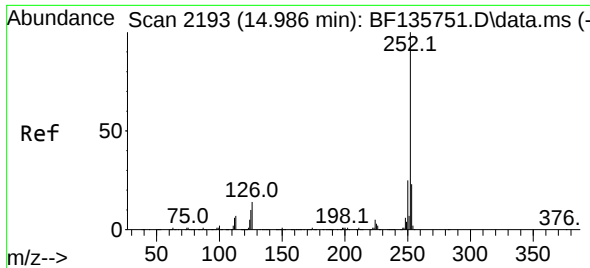
Reviewed By :Yogesh Patel 10/17/2023
Supervised By :mohammad ahmed 10/17/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 12.250 ng
RT: 16.915 min Scan# 2521
Delta R.T. -0.018 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58

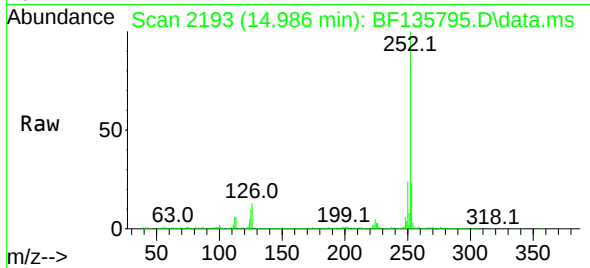
Tgt Ion:276 Resp: 143879
Ion Ratio Lower Upper
276 100
138 21.9 19.8 29.6
277 23.6 20.2 30.4





#88
Benzo(b)fluoranthene
Concen: 36.092 ng m
RT: 14.986 min Scan# 2193
Delta R.T. -0.006 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58

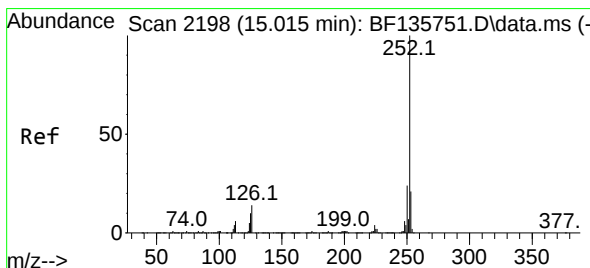
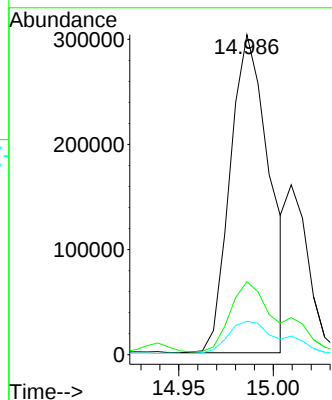
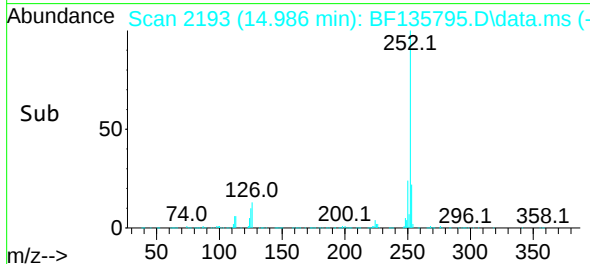
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)



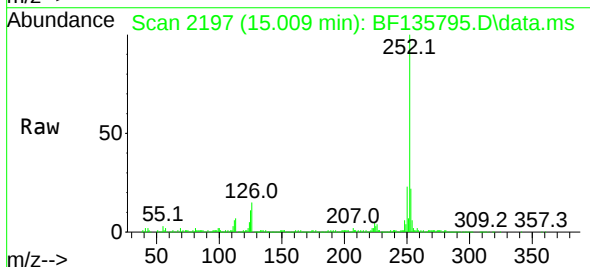
Tgt Ion:252 Resp: 43542
Ion Ratio Lower Upper
252 100
253 22.8 18.2 27.2
125 10.5 8.2 12.2

Manual Integrations
APPROVED

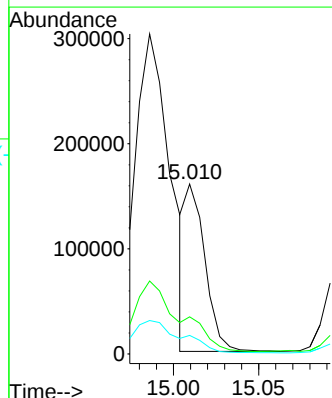
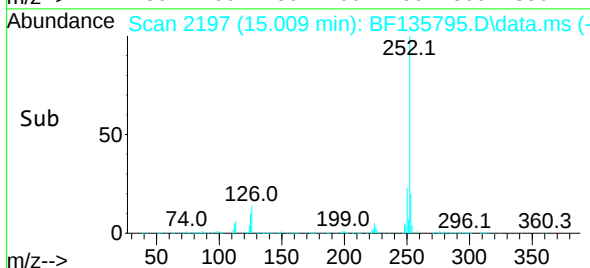
Reviewed By :Yogesh Patel 10/17/2023
Supervised By :mohammad ahmed 10/17/2023

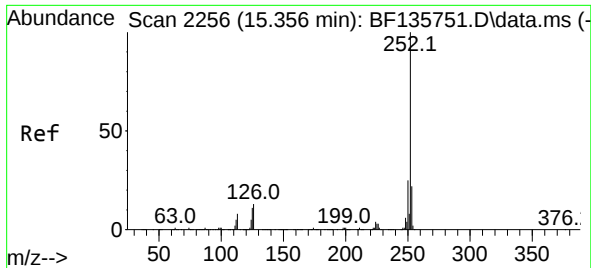


#89
Benzo(k)fluoranthene
Concen: 10.902 ng m
RT: 15.009 min Scan# 2197
Delta R.T. -0.012 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58



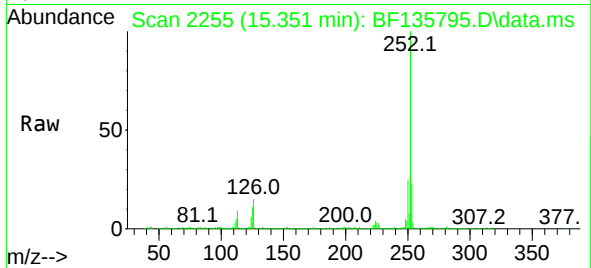
Tgt Ion:252 Resp: 127693
Ion Ratio Lower Upper
252 100
253 21.9 17.4 26.0
125 11.0 8.3 12.5





#90
Benzo(a)pyrene
Concen: 32.347 ng
RT: 15.351 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58

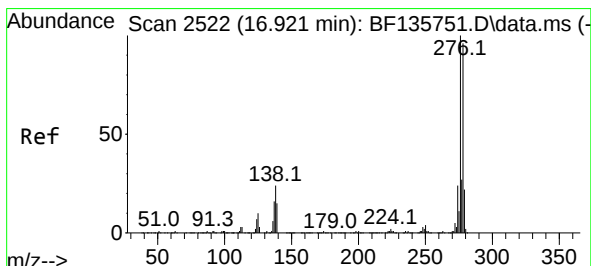
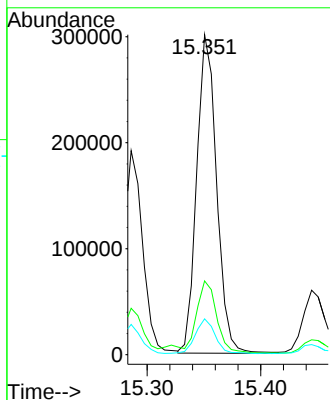
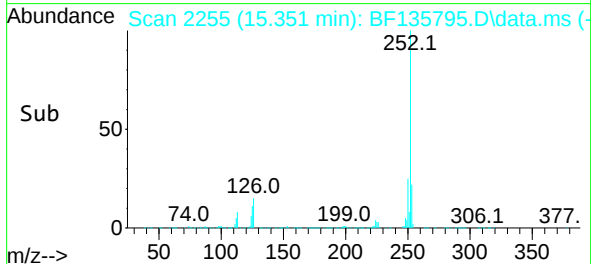
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)



Tgt Ion:252 Resp: 366960
Ion Ratio Lower Upper
252 100
253 23.1 17.4 26.2
125 11.2 8.8 13.2

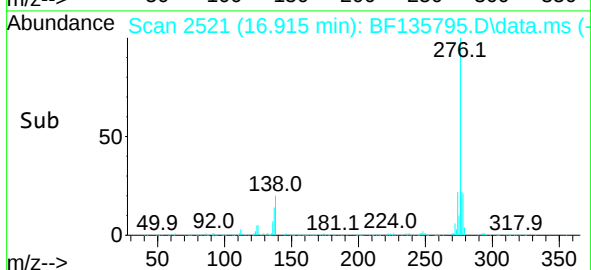
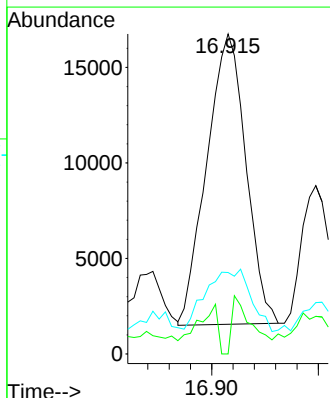
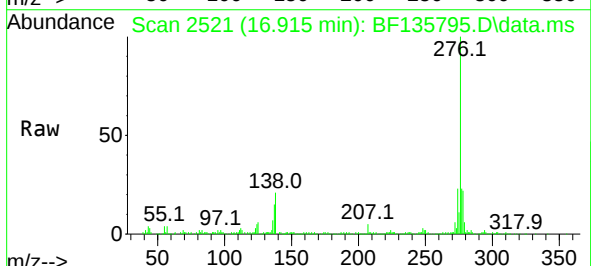
Manual Integrations
APPROVED

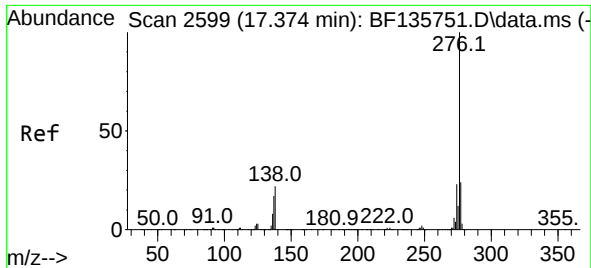
Reviewed By :Yogesh Patel 10/17/2023
Supervised By :mohammad ahmed 10/17/2023



#91
Dibenzo(a,h)anthracene
Concen: 4.025 ng
RT: 16.915 min Scan# 2521
Delta R.T. -0.024 min
Lab File: BF135795.D
Acq: 17 Oct 2023 00:58

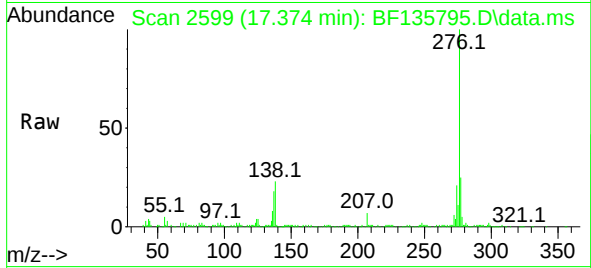
Tgt Ion:278 Resp: 38755
Ion Ratio Lower Upper
278 100
139 0.0 12.5 18.7#
279 25.5 18.6 27.8





#92
 Benzo(g,h,i)perylene
 Concen: 13.347 ng
 RT: 17.374 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BF135795.D
 Acq: 17 Oct 2023 00:58

Instrument :
 BNA_F
 ClientSampleId :
 R-1(10-15)



Tgt Ion:276 Resp: 132012
 Ion Ratio Lower Upper
 276 100
 277 24.8 19.4 29.2
 138 22.7 17.3 25.9

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/17/2023
 Supervised By :mohammad ahmed 10/17/2023

