

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091823\
 Data File : BF135322.D
 Acq On : 18 Sep 2023 23:25
 Operator : CG\JU
 Sample : 04435-04 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-1

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 09/19/2023
 Supervised By :mohammad ahmed 09/19/2023

Quant Time: Sep 19 00:18:50 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 12 00:19:07 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.757	152	121288	20.000	ng	0.00
21) Naphthalene-d8	8.034	136	432737	20.000	ng	-0.01
39) Acenaphthene-d10	9.792	164	174736	20.000	ng	-0.01
64) Phenanthrene-d10	11.286	188	233984	20.000	ng	# 0.00
76) Chrysene-d12	13.945	240	209052	20.000	ng	0.00
86) Perylene-d12	15.410	264	213449	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.381	112	336788	45.163	ng	0.00
7) Phenol-d6	6.393	99	418729	44.159	ng	-0.01
23) Nitrobenzene-d5	7.316	82	256115	32.155	ng	-0.02
42) 2,4,6-Tribromophenol	10.586	330	60859	35.048	ng	-0.01
45) 2-Fluorobiphenyl	9.110	172	405533	35.015	ng	-0.02
79) Terphenyl-d14	12.880	244	251230	18.630	ng	-0.01
Target Compounds						Qvalue
49) Acenaphthylene	9.651	152	35808	2.211	ng	# 90
58) Fluorene	10.339	166	35973	3.206	ng	# 94
71) Phenanthrene	11.316	178	567118	51.247	ng	99
72) Anthracene	11.363	178	92407m	8.124	ng	
75) Fluoranthene	12.510	202	717977	62.264	ng	98
78) Pyrene	12.745	202	1045210	52.514	ng	100
81) Benzo(a)anthracene	13.933	228	556749	41.244	ng	95
83) Chrysene	13.974	228	552708	41.182	ng	97
87) Indeno(1,2,3-cd)pyrene	16.880	276	113368	8.101	ng	99
88) Benzo(b)fluoranthene	14.986	252	436447m	37.772	ng	
89) Benzo(k)fluoranthene	15.010	252	116141m	10.175	ng	
90) Benzo(a)pyrene	15.345	252	337485	30.628	ng	100
91) Dibenzo(a,h)anthracene	16.892	278	40294	3.519	ng	# 89
92) Benzo(g,h,i)perylene	17.327	276	122776	10.266	ng	100

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

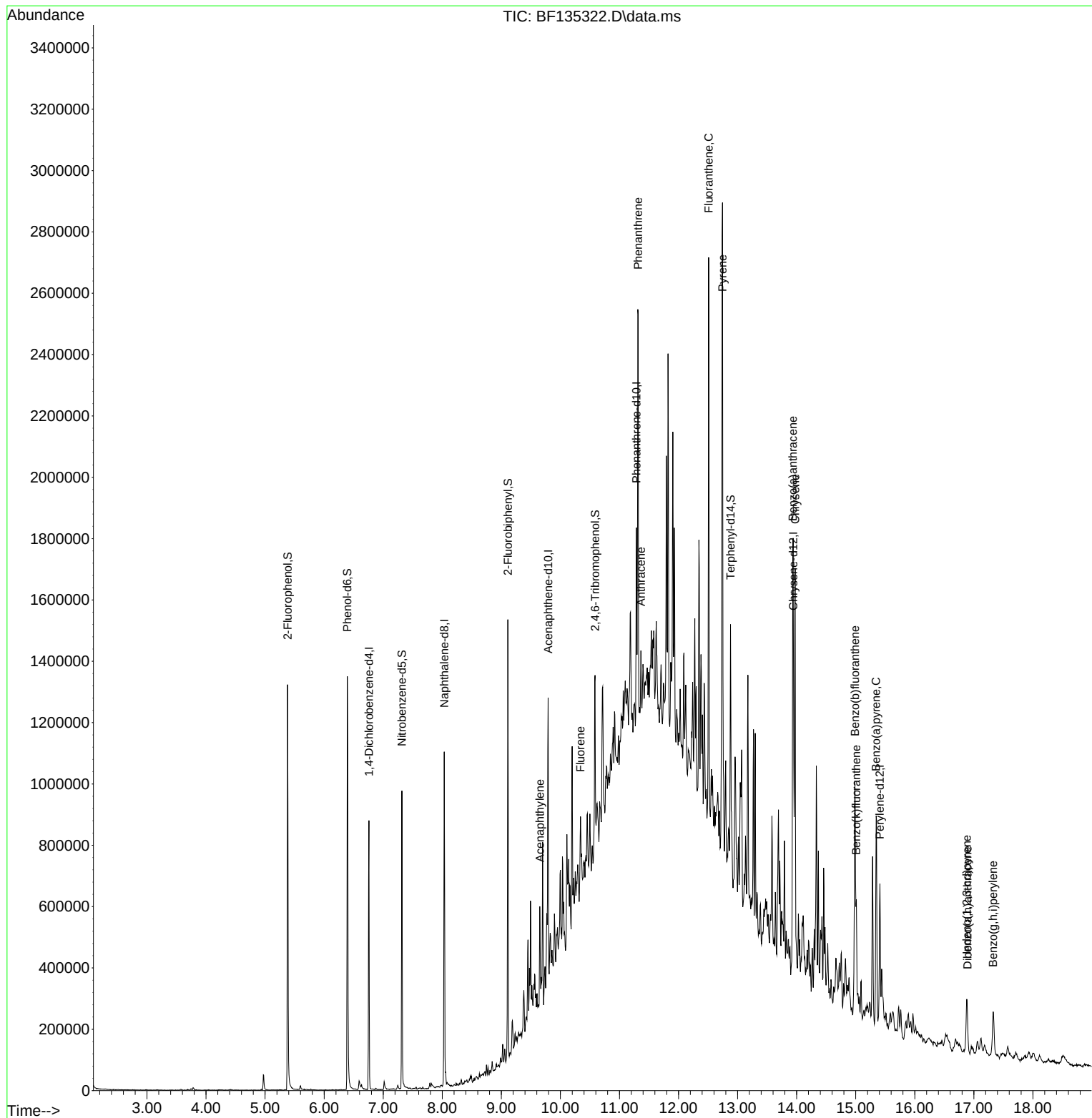
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091823\
Data File : BF135322.D
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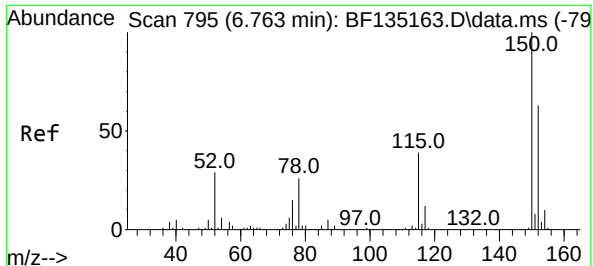
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WC-1

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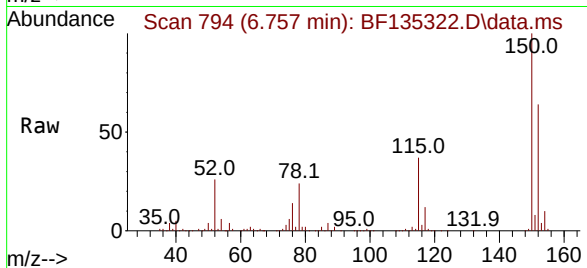
Quant Time: Sep 19 00:18:50 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 12 00:19:07 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.757 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF135322.D
Acq: 18 Sep 2023 23:25

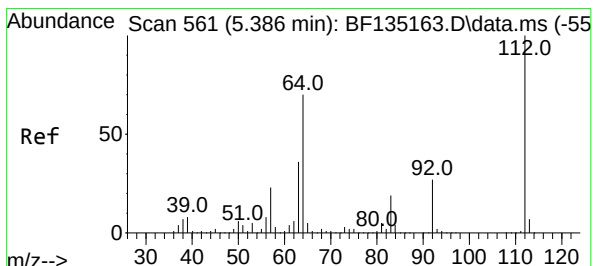
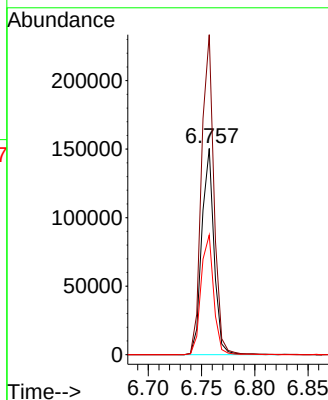
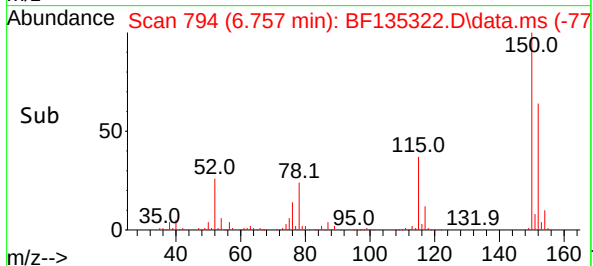
Instrument :
BNA_F
ClientSampleId :
WC-1



Tgt Ion:152 Resp: 121288
Ion Ratio Lower Upper
152 100
150 155.1 127.8 191.6
115 58.0 49.8 74.8

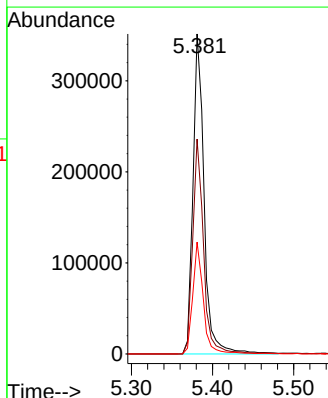
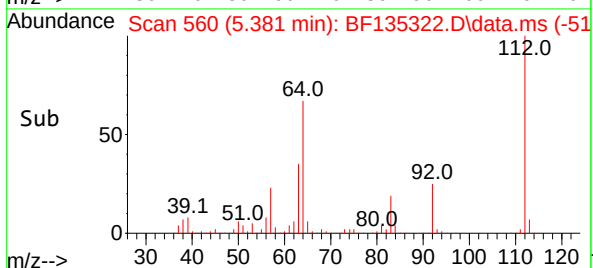
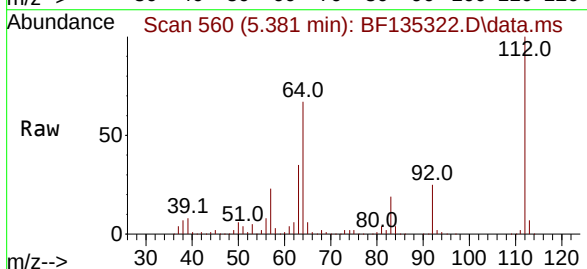
Manual Integrations
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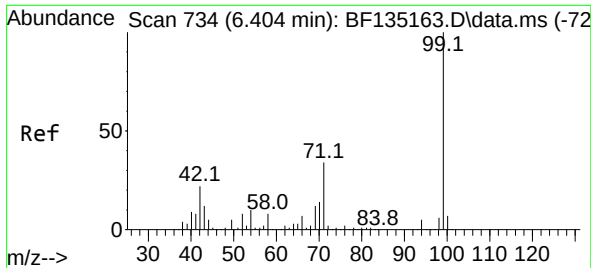
Reviewed By :Yogesh Patel 09/19/2023
Supervised By :mohammad ahmed 09/19/2023



#5
2-Fluorophenol
Concen: 45.163 ng
RT: 5.381 min Scan# 560
Delta R.T. -0.006 min
Lab File: BF135322.D
Acq: 18 Sep 2023 23:25

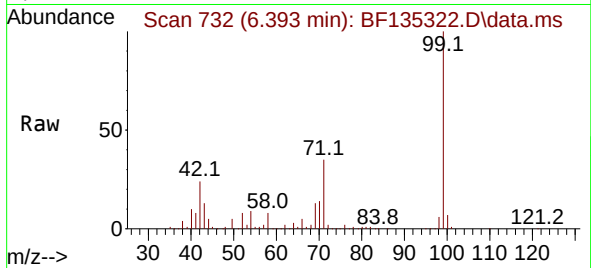
Tgt Ion:112 Resp: 336788
Ion Ratio Lower Upper
112 100
64 67.1 55.9 83.9
63 35.0 29.0 43.6





#7
Phenol-d6
Concen: 44.159 ng
RT: 6.393 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF135322.D
Acq: 18 Sep 2023 23:25

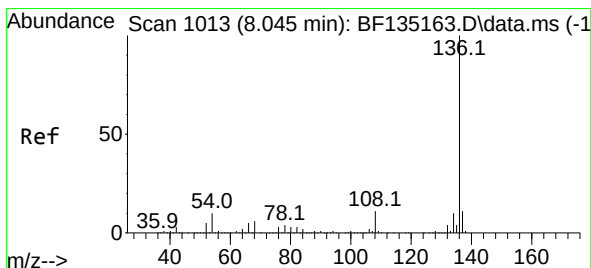
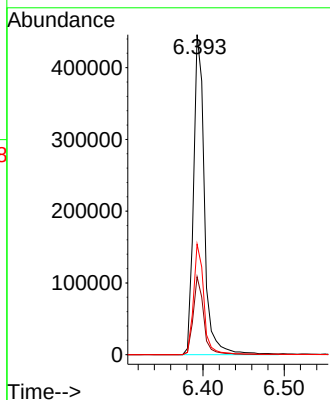
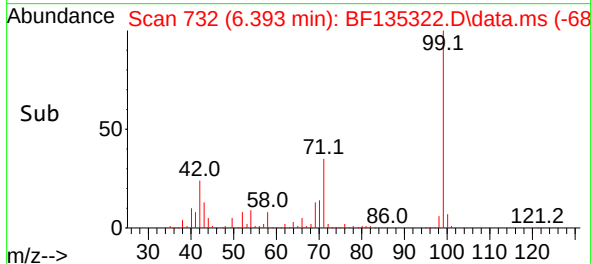
Instrument :
BNA_F
ClientSampleId :
WC-1



Tgt Ion: 99 Resp: 418729
Ion Ratio Lower Upper
99 100
42 24.3 17.9 26.9
71 34.5 27.0 40.6

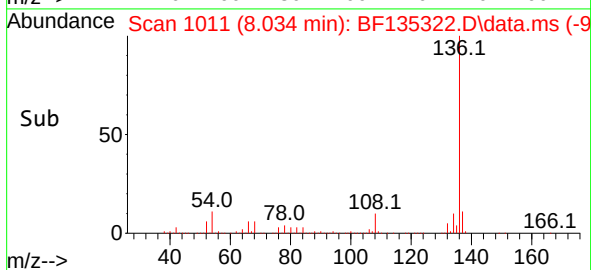
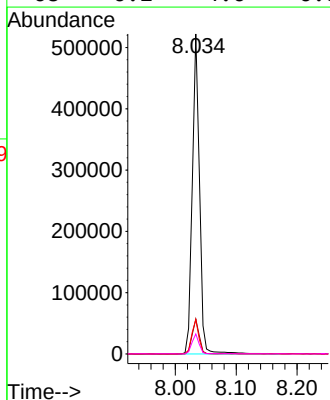
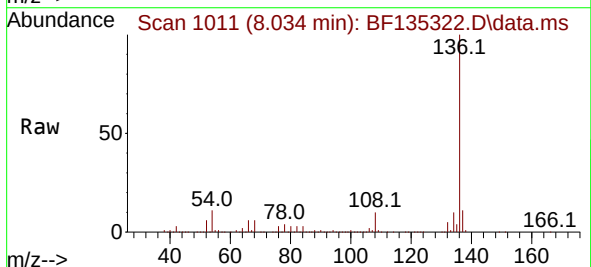
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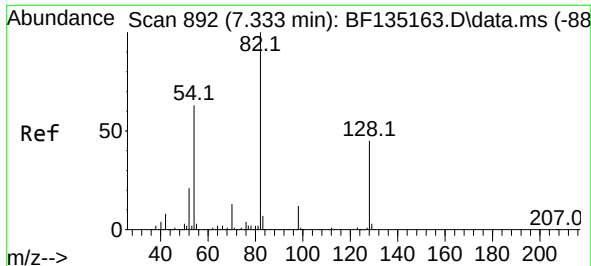
Reviewed By :Yogesh Patel 09/19/2023
Supervised By :mohammad ahmed 09/19/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.034 min Scan# 1011
Delta R.T. -0.012 min
Lab File: BF135322.D
Acq: 18 Sep 2023 23:25

Tgt Ion:136 Resp: 432737
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 10.8 7.7 11.5
68 6.2 4.6 6.8





#23

Nitrobenzene-d5

Concen: 32.155 ng

RT: 7.316 min Scan# 84

Delta R.T. -0.017 min

Lab File: BF135322.D

Acq: 18 Sep 2023 23:25

Instrument :

BNA_F

ClientSampleId :

WC-1

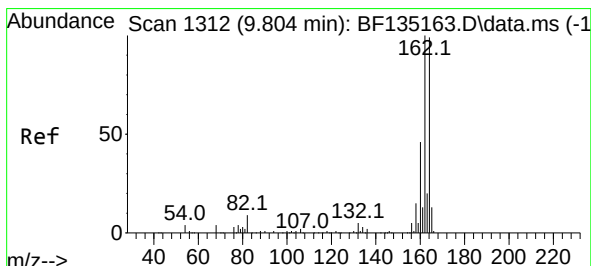
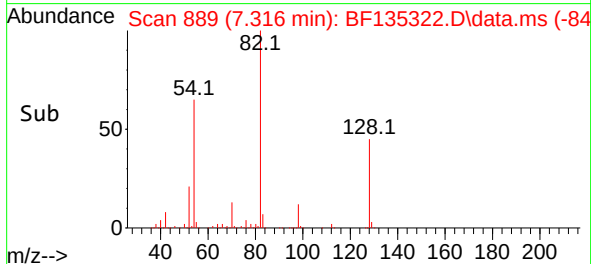
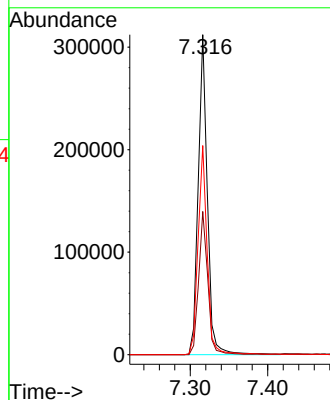
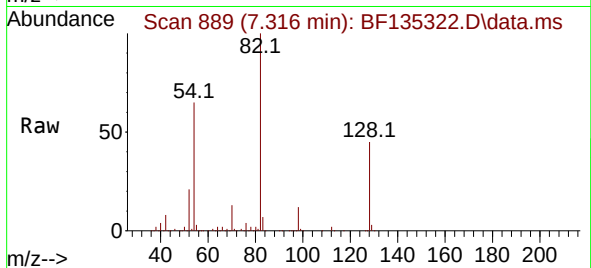
Tgt Ion:	82	Resp:	25611
Ion	Ratio	Lower	Upper
82	100		
128	44.8	35.8	53.6
54	65.4	50.6	76.0

Manual Integrations

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Supervised By :mohammad ahmed 09/19/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

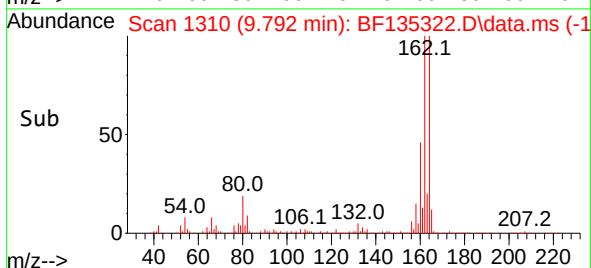
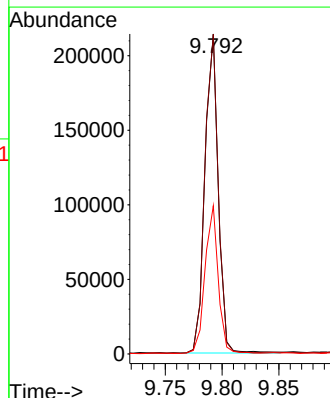
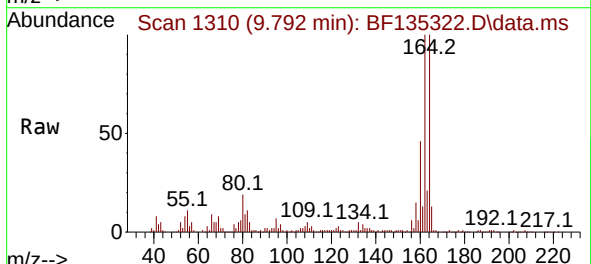
RT: 9.792 min Scan# 1310

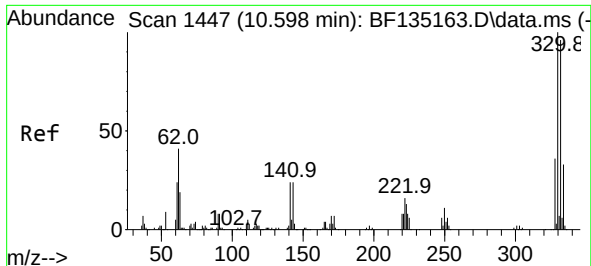
Delta R.T. -0.012 min

Lab File: BF135322.D

Acq: 18 Sep 2023 23:25

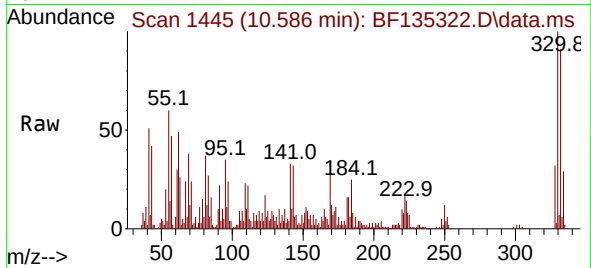
Tgt Ion:	164	Resp:	174736
Ion	Ratio	Lower	Upper
164	100		
162	99.9	81.0	121.4
160	46.3	37.0	55.4





#42
2,4,6-Tribromophenol
Concen: 35.048 ng
RT: 10.586 min Scan# 1445
Delta R.T. -0.012 min
Lab File: BF135322.D
Acq: 18 Sep 2023 23:25

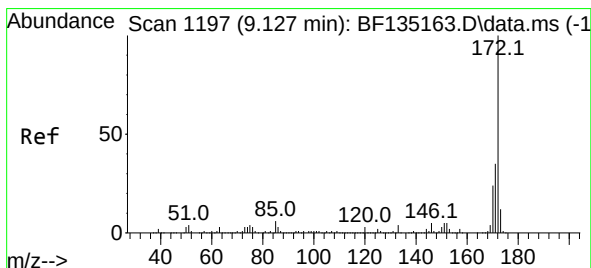
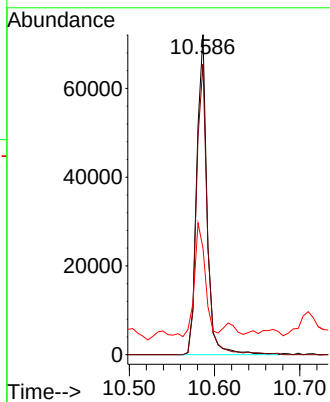
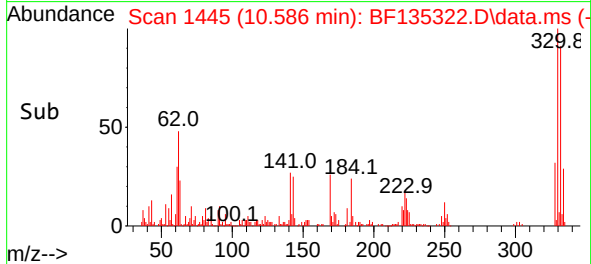
Instrument :
BNA_F
ClientSampleId :
WC-1



Tgt Ion: 330 Resp: 60859
Ion Ratio Lower Upper
330 100
332 94.5 77.3 115.9
141 37.0 25.8 38.8

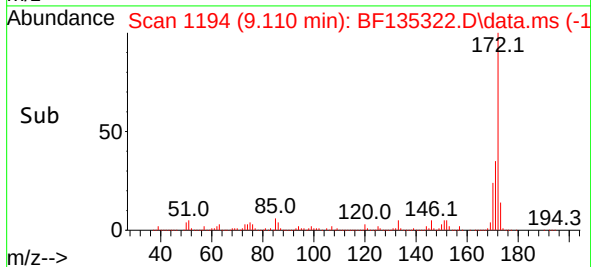
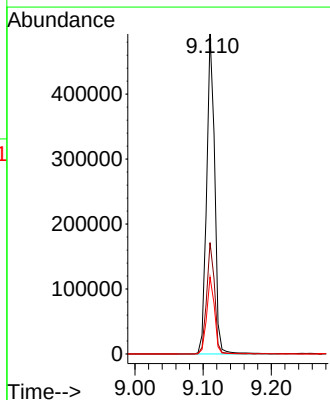
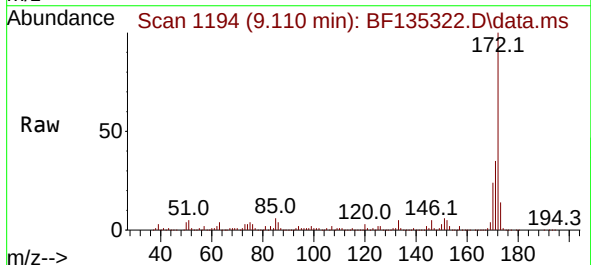
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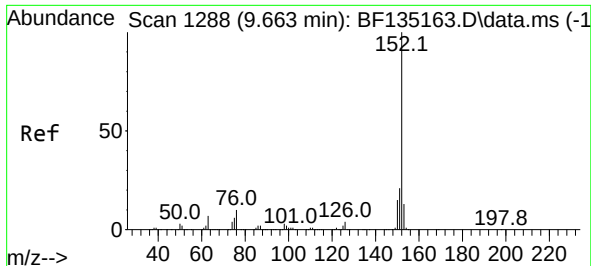
Reviewed By :Yogesh Patel 09/19/2023
Supervised By :mohammad ahmed 09/19/2023



#45
2-Fluorobiphenyl
Concen: 35.015 ng
RT: 9.110 min Scan# 1194
Delta R.T. -0.017 min
Lab File: BF135322.D
Acq: 18 Sep 2023 23:25

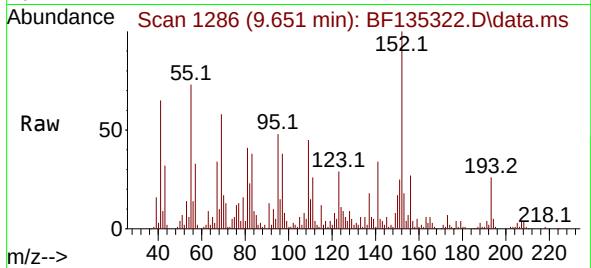
Tgt Ion: 172 Resp: 405533
Ion Ratio Lower Upper
172 100
171 34.8 28.4 42.6
170 24.0 19.0 28.4





#49
Acenaphthylene
Concen: 2.211 ng
RT: 9.651 min Scan# 1286
Delta R.T. -0.012 min
Lab File: BF135322.D
Acq: 18 Sep 2023 23:25

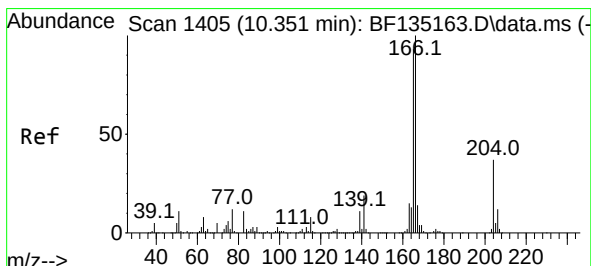
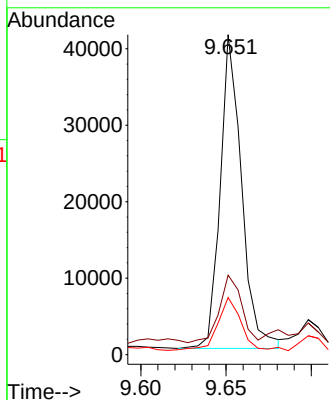
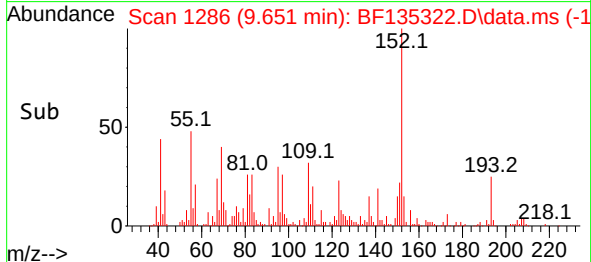
Instrument :
BNA_F
ClientSampleId :
WC-1



Tgt Ion:152 Resp: 35808
Ion Ratio Lower Upper
152 100
151 24.9 16.4 24.6
153 17.9 10.4 15.6

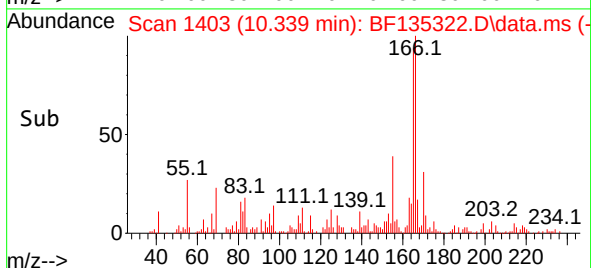
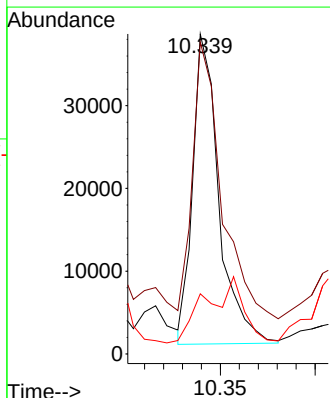
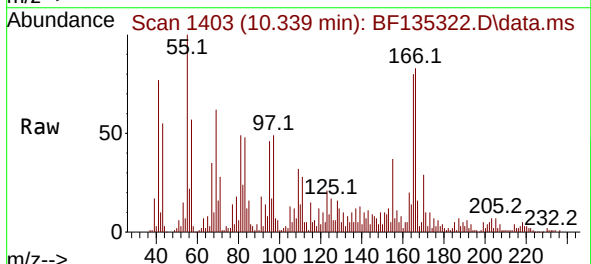
Manual Integrations
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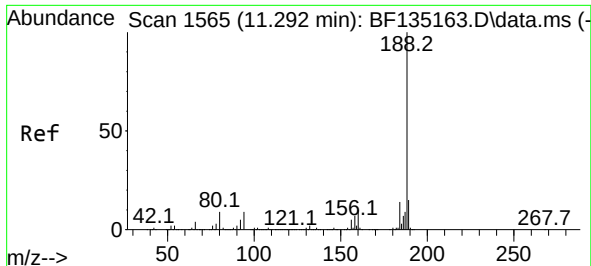
Reviewed By :Yogesh Patel 09/19/2023
Supervised By :mohammad ahmed 09/19/2023



#58
Fluorene
Concen: 3.206 ng
RT: 10.339 min Scan# 1403
Delta R.T. -0.012 min
Lab File: BF135322.D
Acq: 18 Sep 2023 23:25

Tgt Ion:166 Resp: 35973
Ion Ratio Lower Upper
166 100
165 97.5 74.3 111.5
167 18.8 10.9 16.3





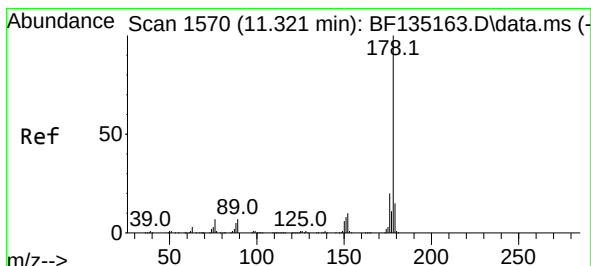
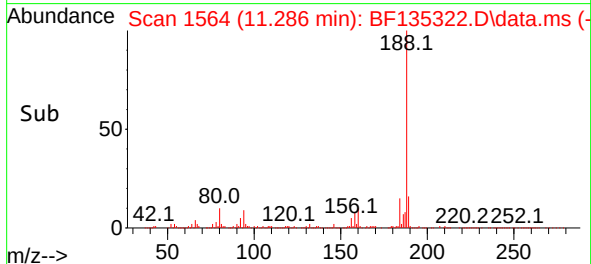
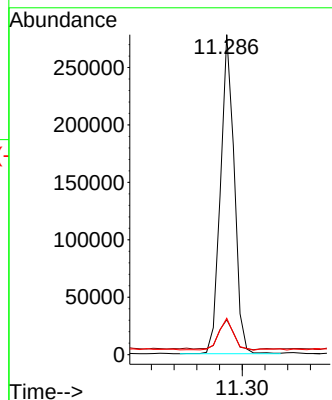
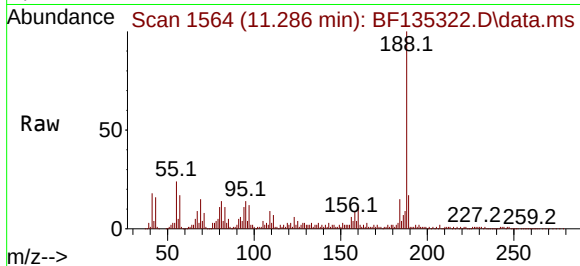
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.286 min Scan# 1565
Delta R.T. -0.006 min
Lab File: BF135322.D
Acq: 18 Sep 2023 23:25

Instrument :
BNA_F
ClientSampleId :
WC-1

Tgt Ion:188 Resp: 233984
Ion Ratio Lower Upper
188 100
94 10.9 7.0 10.6
80 11.4 7.5 11.3

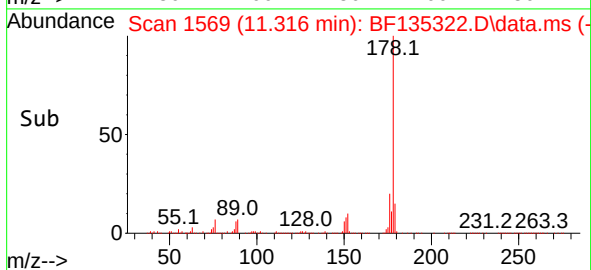
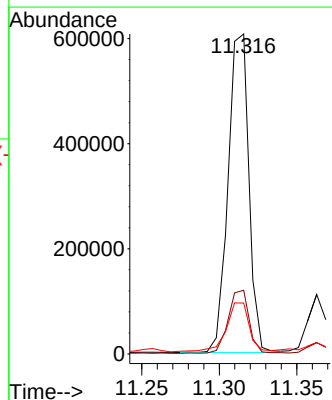
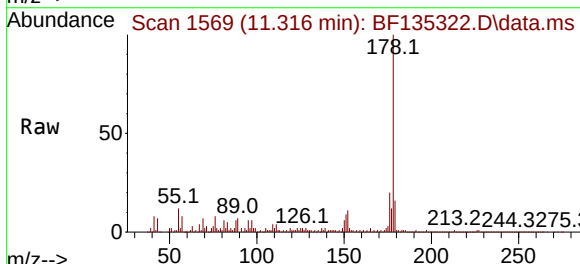
Manual Integrations
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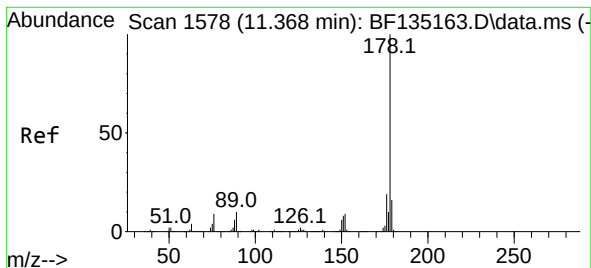
Reviewed By :Yogesh Patel 09/19/2023
Supervised By :mohammad ahmed 09/19/2023



#71
Phenanthrene
Concen: 51.247 ng
RT: 11.316 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF135322.D
Acq: 18 Sep 2023 23:25

Tgt Ion:178 Resp: 567118
Ion Ratio Lower Upper
178 100
176 19.9 15.6 23.4
179 15.9 12.0 18.0





#72

Anthracene

Concen: 8.124 ng m

RT: 11.363 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF135322.D

Acq: 18 Sep 2023 23:25

Instrument :

BNA_F

ClientSampleId :

WC-1

Tgt Ion:178 Resp: 9240

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

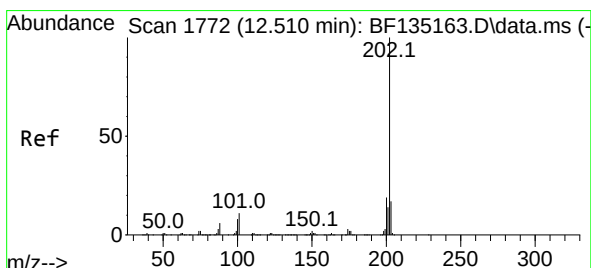
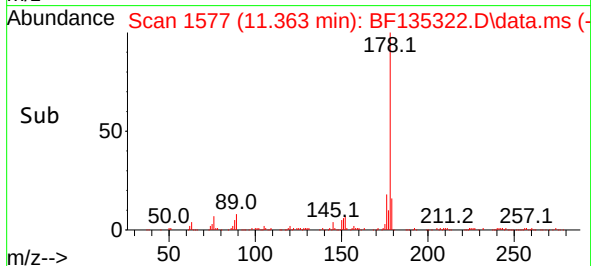
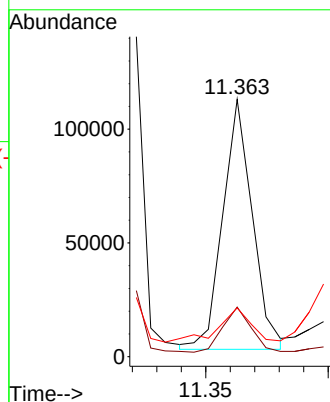
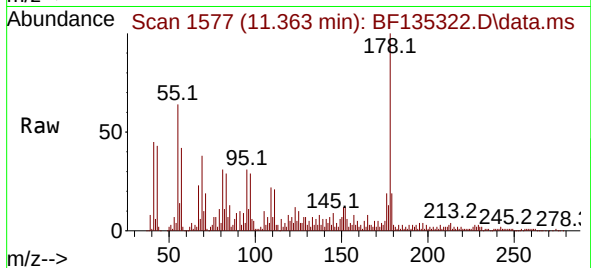
179 19.0 12.6 19.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/19/2023

Supervised By :mohammad ahmed 09/19/2023



#75

Fluoranthene

Concen: 62.264 ng

RT: 12.510 min Scan# 1772

Delta R.T. 0.000 min

Lab File: BF135322.D

Acq: 18 Sep 2023 23:25

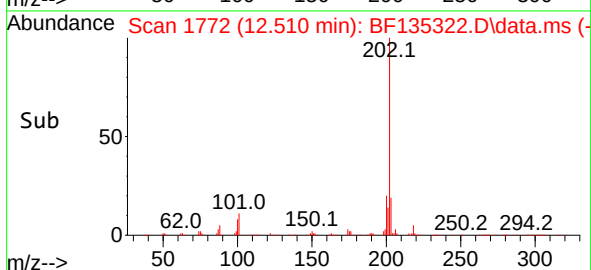
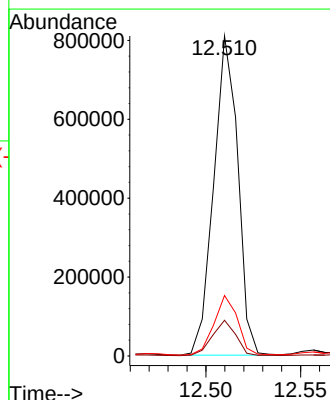
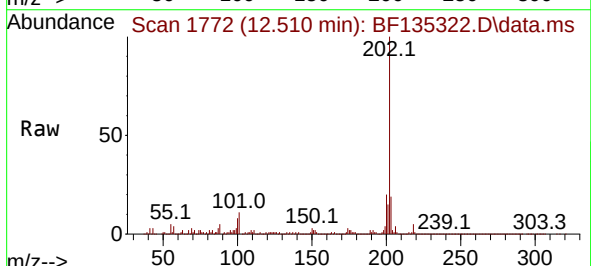
Tgt Ion:202 Resp: 717977

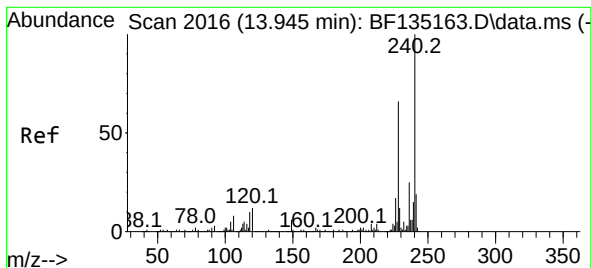
Ion Ratio Lower Upper

202 100

101 11.2 0.0 31.3

203 18.9 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.945 min Scan# 2016

Delta R.T. 0.000 min

Lab File: BF135322.D

Acq: 18 Sep 2023 23:25

Instrument :

BNA_F

ClientSampleId :

WC-1

Tgt Ion:240 Resp: 209052

Ion Ratio Lower Upper

240 100

120 11.5 9.4 14.2

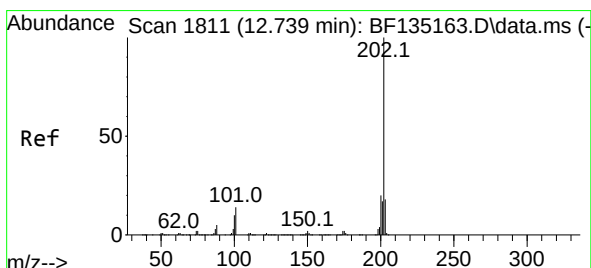
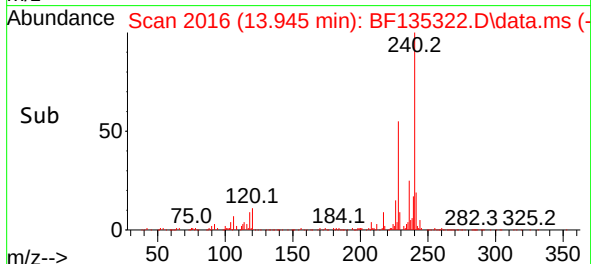
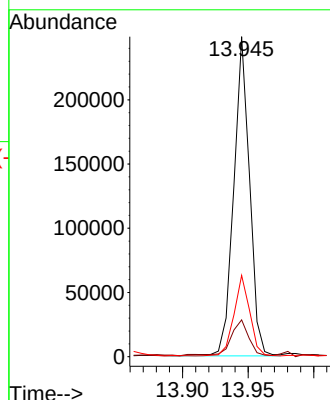
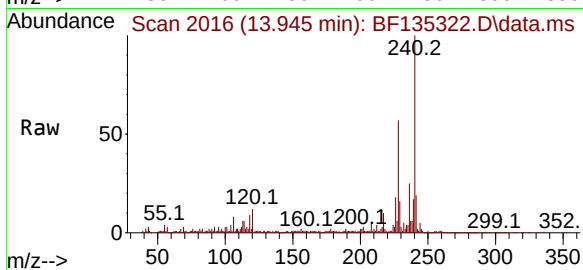
236 25.4 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/19/2023

Supervised By :mohammad ahmed 09/19/2023



#78

Pyrene

Concen: 52.514 ng

RT: 12.745 min Scan# 1812

Delta R.T. 0.006 min

Lab File: BF135322.D

Acq: 18 Sep 2023 23:25

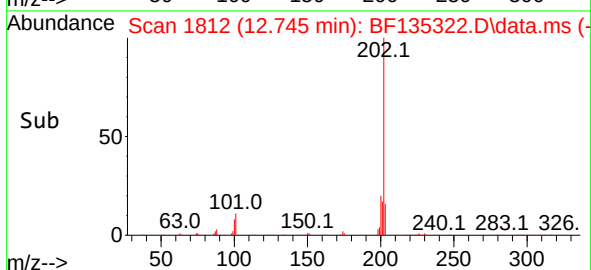
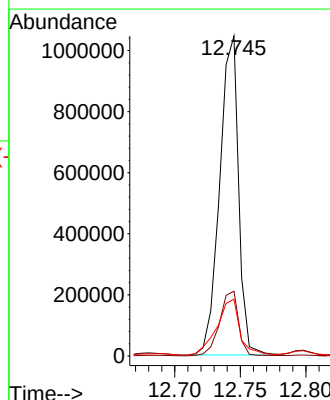
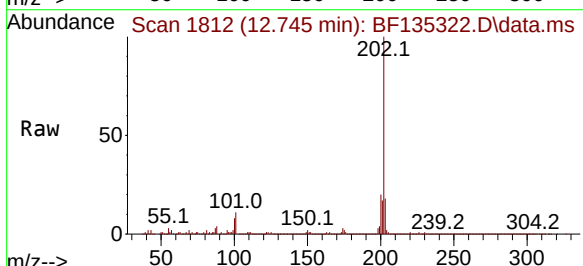
Tgt Ion:202 Resp: 1045210

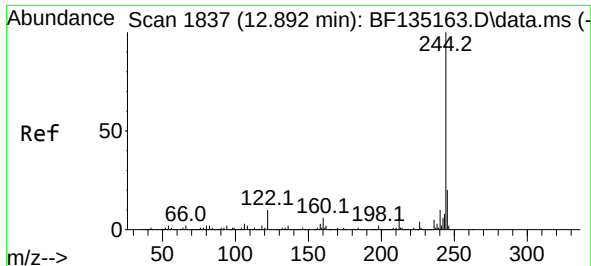
Ion Ratio Lower Upper

202 100

200 20.2 16.2 24.2

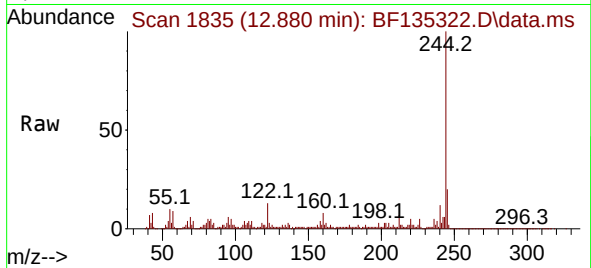
203 17.7 14.2 21.4





#79
Terphenyl-d14
Concen: 18.630 ng
RT: 12.880 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135322.D
Acq: 18 Sep 2023 23:25

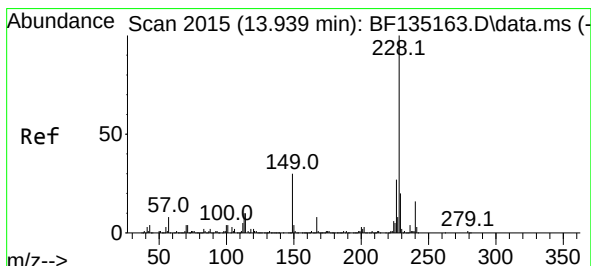
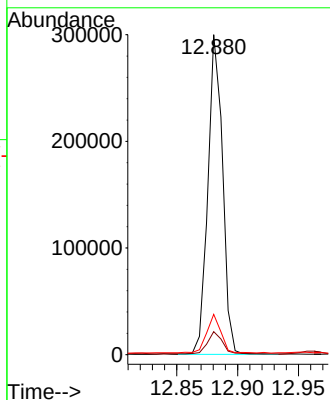
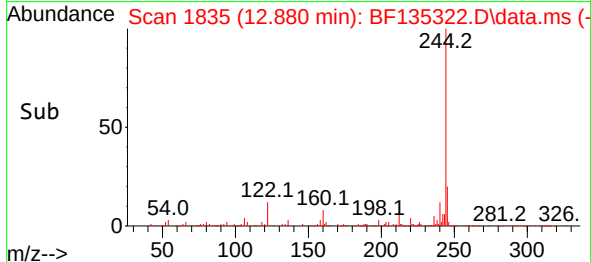
Instrument :
BNA_F
ClientSampleId :
WC-1



Tgt Ion:244 Resp: 251230
Ion Ratio Lower Upper
244 100
212 7.2 5.1 7.7
122 12.6 7.9 11.9

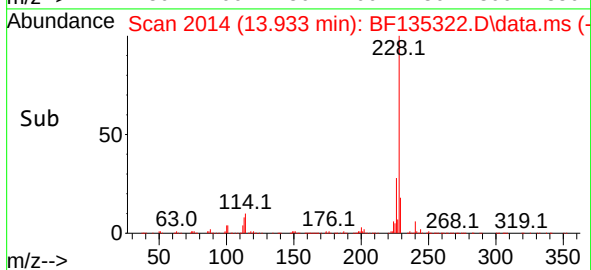
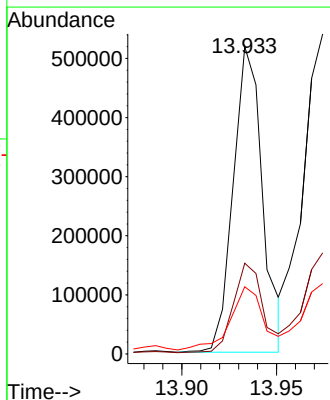
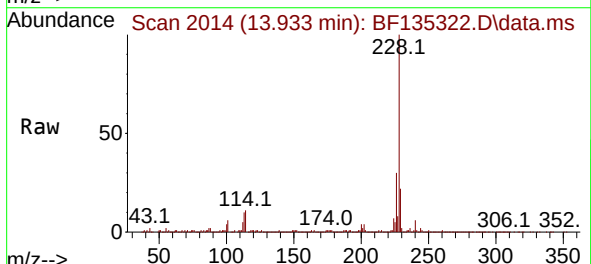
Manual Integrations
APPROVED

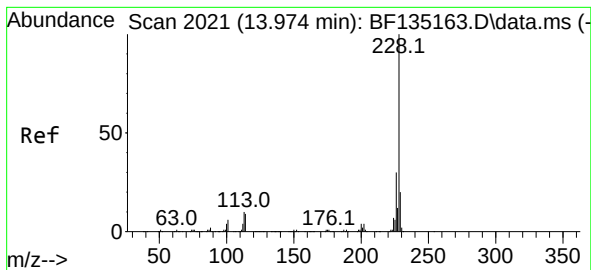
Reviewed By :Yogesh Patel 09/19/2023
Supervised By :mohammad ahmed 09/19/2023



#81
Benzo(a)anthracene
Concen: 41.244 ng
RT: 13.933 min Scan# 2014
Delta R.T. -0.006 min
Lab File: BF135322.D
Acq: 18 Sep 2023 23:25

Tgt Ion:228 Resp: 556749
Ion Ratio Lower Upper
228 100
226 29.5 21.7 32.5
229 21.9 15.8 23.8





#83

Chrysene

Concen: 41.182 ng

RT: 13.974 min Scan# 2021

Delta R.T. 0.000 min

Lab File: BF135322.D

Acq: 18 Sep 2023 23:25

Instrument :

BNA_F

ClientSampleId :

WC-1

Tgt Ion:228 Resp: 552708

Ion Ratio Lower Upper

228 100

226 31.6 24.3 36.5

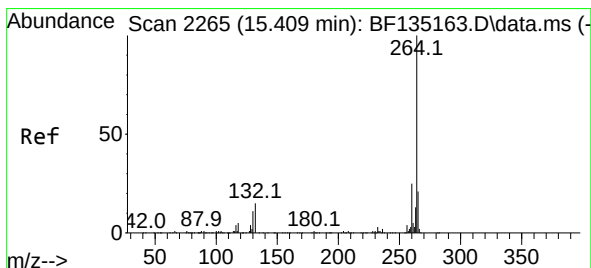
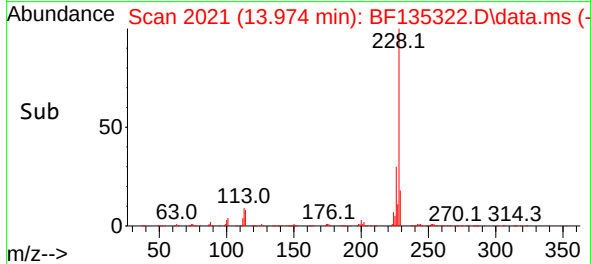
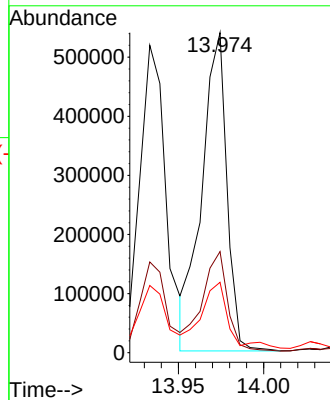
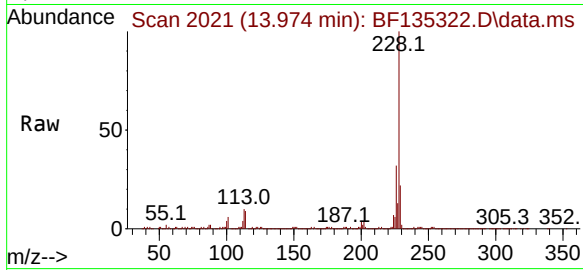
229 22.0 16.0 24.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/19/2023

Supervised By :mohammad ahmed 09/19/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.410 min Scan# 2265

Delta R.T. 0.000 min

Lab File: BF135322.D

Acq: 18 Sep 2023 23:25

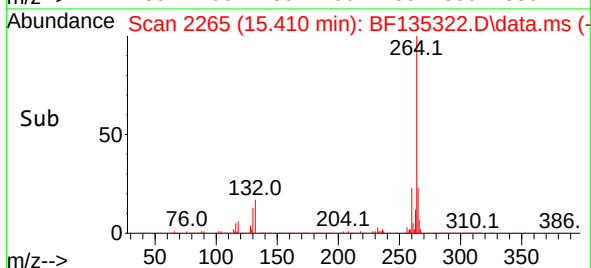
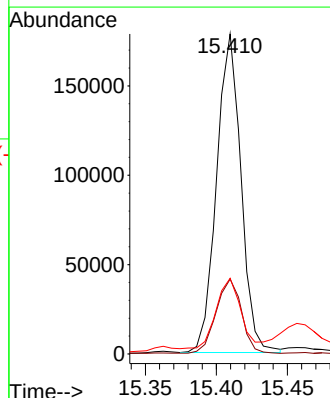
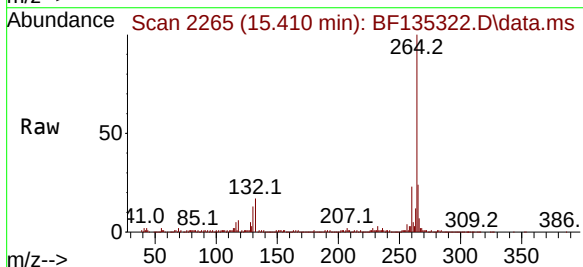
Tgt Ion:264 Resp: 213449

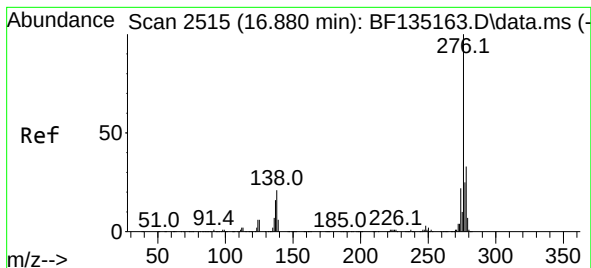
Ion Ratio Lower Upper

264 100

260 23.4 19.8 29.6

265 23.7 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 8.101 ng

RT: 16.880 min Scan# 2115

Delta R.T. 0.000 min

Lab File: BF135322.D

Acq: 18 Sep 2023 23:25

Instrument :

BNA_F

ClientSampleId :

WC-1

Tgt Ion:276 Resp: 11336

Ion Ratio Lower Upper

276 100

138 23.6 19.2 28.8

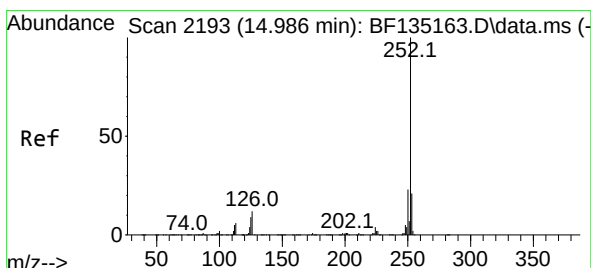
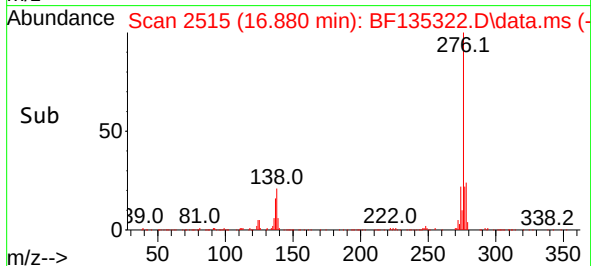
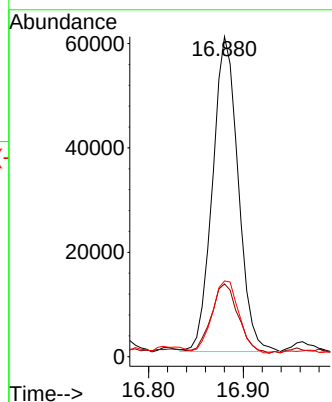
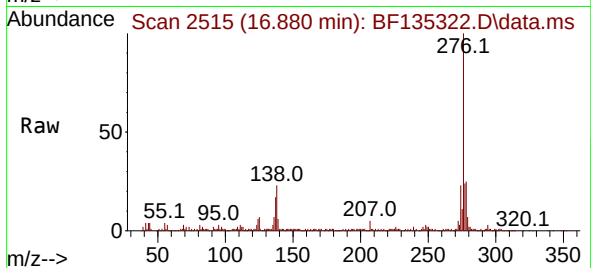
277 23.7 19.7 29.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/19/2023

Supervised By :mohammad ahmed 09/19/2023



#88

Benzo(b)fluoranthene

Concen: 37.772 ng m

RT: 14.986 min Scan# 2193

Delta R.T. 0.000 min

Lab File: BF135322.D

Acq: 18 Sep 2023 23:25

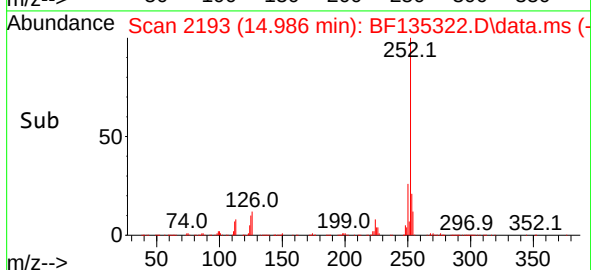
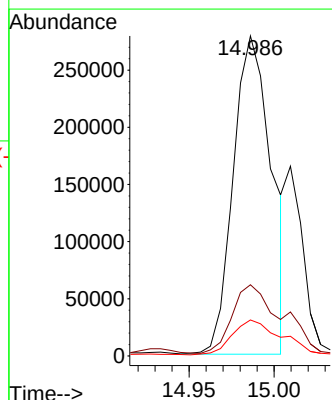
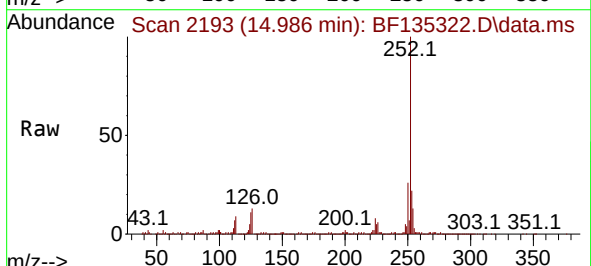
Tgt Ion:252 Resp: 436447

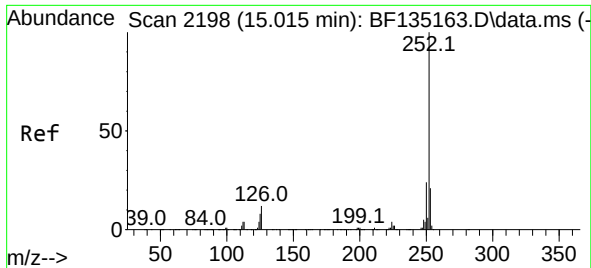
Ion Ratio Lower Upper

252 100

253 22.3 17.2 25.8

125 11.2 7.1 10.7#





#89

Benzo(k)fluoranthene

Concen: 10.175 ng m

RT: 15.010 min Scan# 2198

Delta R.T. -0.006 min

Lab File: BF135322.D

Acq: 18 Sep 2023 23:25

Instrument :

BNA_F

ClientSampleId :

WC-1

Tgt Ion:252 Resp: 11614

Ion Ratio Lower Upper

252 100

253 23.2 17.4 26.0

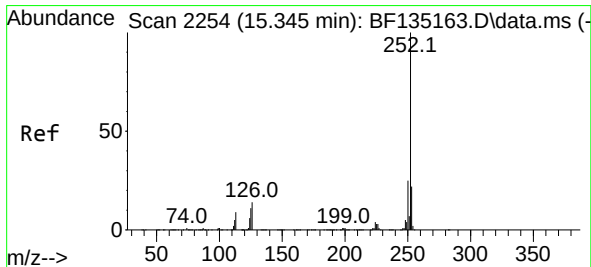
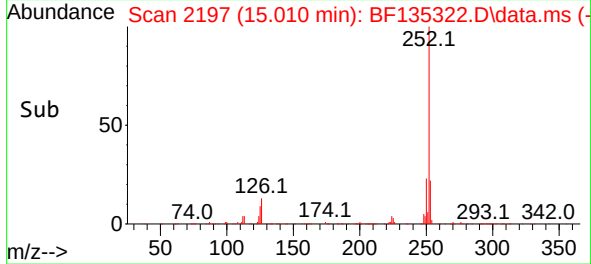
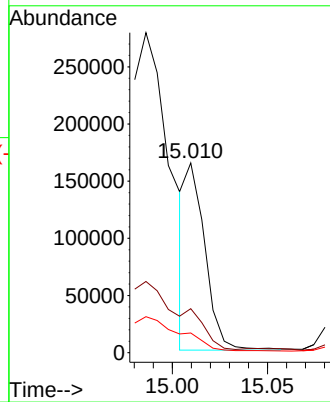
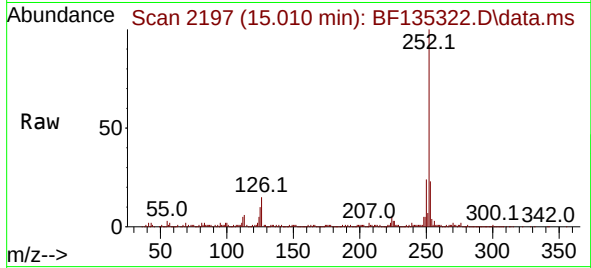
125 10.4 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/19/2023

Supervised By :mohammad ahmed 09/19/2023



#90

Benzo(a)pyrene

Concen: 30.628 ng

RT: 15.345 min Scan# 2254

Delta R.T. 0.000 min

Lab File: BF135322.D

Acq: 18 Sep 2023 23:25

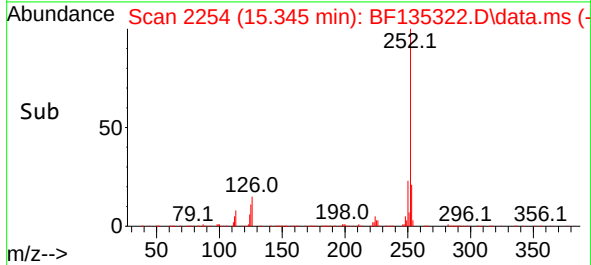
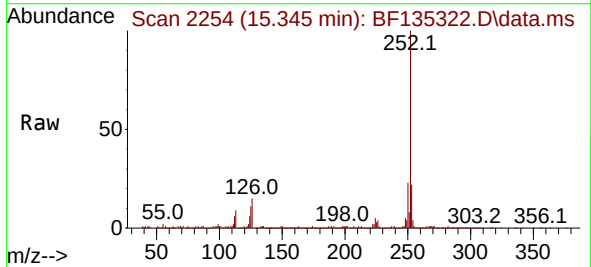
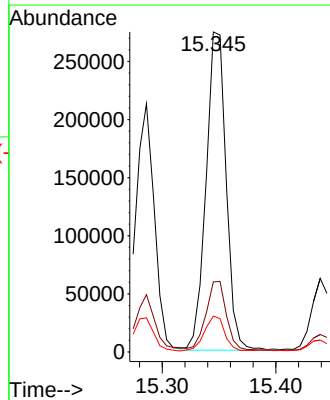
Tgt Ion:252 Resp: 337485

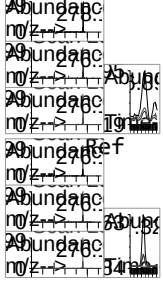
Ion Ratio Lower Upper

252 100

253 21.9 17.5 26.3

125 11.2 9.2 13.8





#91
Dibenzo(a,h)anthracene
Concen: 3.519 ng
RT: 16.892 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF135322.D
Acq: 18 Sep 2023 23:25

Instrument : BNA_F
ClientSampleId : WC-1

Tgt Ion:	278	Resp:	40294
Ion	Ratio	Lower	Upper
278	100		
139	22.4	13.4	20.0
279	28.7	19.0	28.6

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 09/19/2023
Supervised By :mohammad ahmed 09/19/2023

Raw

Sub

Ref

#92
Benzo(g,h,i)perylene
Concen: 10.266 ng
RT: 17.327 min Scan# 2591
Delta R.T. 0.000 min
Lab File: BF135322.D
Acq: 18 Sep 2023 23:25

Tgt Ion:	276	Resp:	122776
Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.8	28.2
138	21.1	16.9	25.3

Raw

Sub