

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100523\
 Data File : BF135616.D
 Acq On : 05 Oct 2023 23:56
 Operator : CG\JU
 Sample : 04622-02 10X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 I-4(0-5)

Quant Time: Oct 06 03:49:49 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 04 17:06:20 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/07/2023
 Supervised By :mohammad ahmed 10/07/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.739	152	127213	20.000	ng	0.00
21) Naphthalene-d8	8.022	136	448438	20.000	ng	0.00
39) Acenaphthene-d10	9.774	164	200462	20.000	ng	0.00
64) Phenanthrene-d10	11.274	188	275933	20.000	ng	# 0.00
76) Chrysene-d12	13.939	240	184766	20.000	ng	# 0.01
86) Perylene-d12	15.404	264	182605	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	81203	10.382	ng	0.00
7) Phenol-d6	6.392	99	106508	10.709	ng	0.00
23) Nitrobenzene-d5	7.304	82	62114	7.525	ng	0.00
42) 2,4,6-Tribromophenol	10.574	330	13906	6.981	ng	0.00
45) 2-Fluorobiphenyl	9.092	172	122568	9.225	ng	0.00
79) Terphenyl-d14	12.863	244	87299	7.324	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.051	128	4474588	205.367	ng	97
37) 2-Methylnaphthalene	8.739	142	1448343	98.890	ng	99
38) 1-Methylnaphthalene	8.833	142	1102668	80.415	ng	99
46) 1,1'-Biphenyl	9.192	154	517640	33.602	ng	99
49) Acenaphthylene	9.639	152	541530	29.152	ng	98
52) Acenaphthene	9.810	154	405246	36.929	ng	98
55) Dibenzofuran	9.986	168	1044253	62.360	ng	100
58) Fluorene	10.333	166	1351488	104.983	ng	100
71) Phenanthrene	11.316	178	3740359	286.608	ng	98
72) Anthracene	11.357	178	1385594	103.291	ng	100
73) Carbazole	11.510	167	443319	36.303	ng	99
75) Fluoranthene	12.515	202	3229569	237.496	ng	98
78) Pyrene	12.745	202	3021100	171.740	ng	98
81) Benzo(a)anthracene	13.933	228	1722808	144.400	ng	95
83) Chrysene	13.968	228	1455661	122.716	ng	97
87) Indeno(1,2,3-cd)pyrene	16.898	276	464228	38.774	ng	98
88) Benzo(b)fluoranthene	14.986	252	1373602m	138.957	ng	
89) Benzo(k)fluoranthene	15.009	252	387103m	39.643	ng	
90) Benzo(a)pyrene	15.351	252	956647	101.482	ng	98
91) Dibenzo(a,h)anthracene	16.898	278	140437m	14.336	ng	
92) Benzo(g,h,i)perylene	17.345	276	432565	42.280	ng	98

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

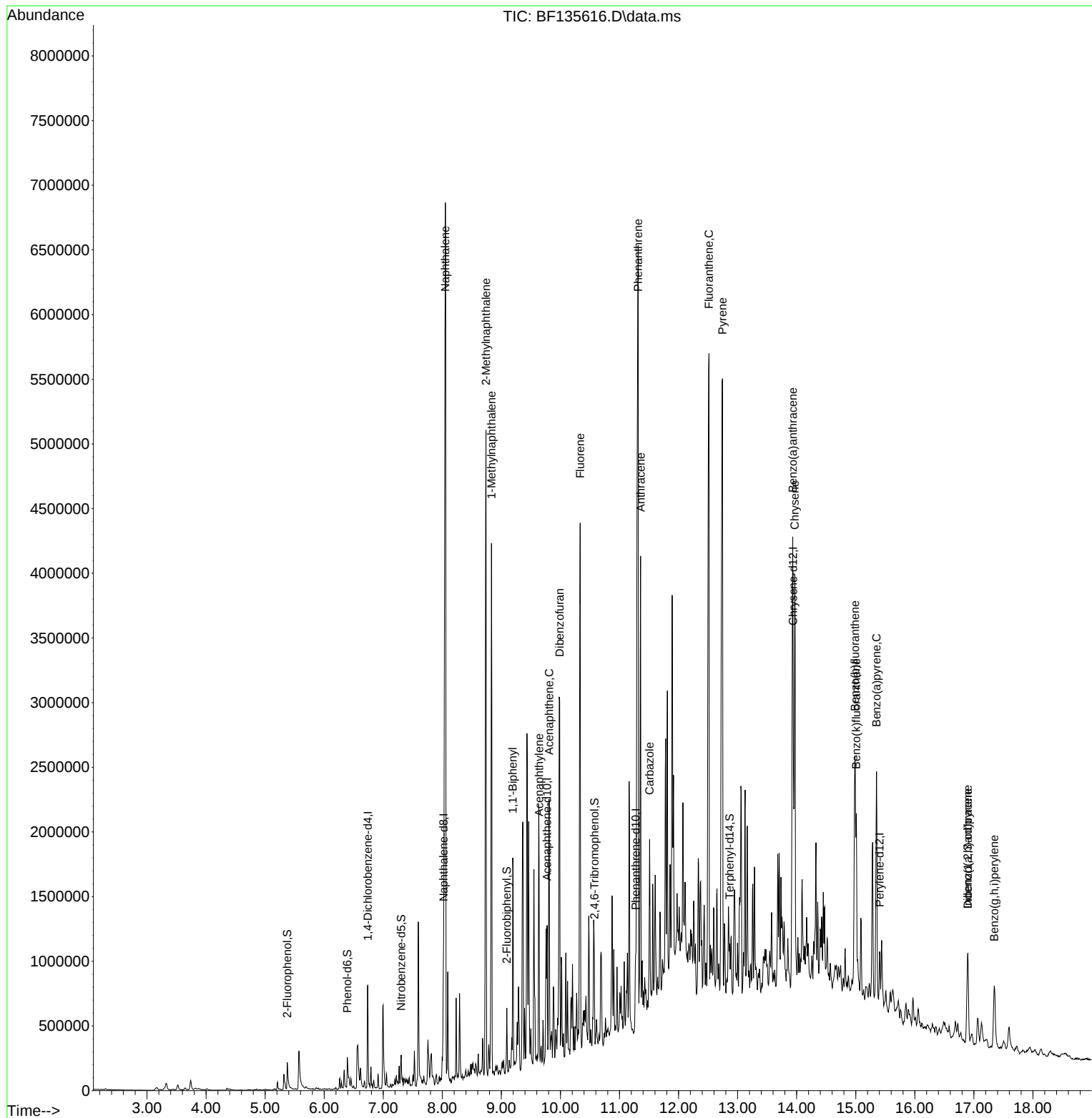
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100523\
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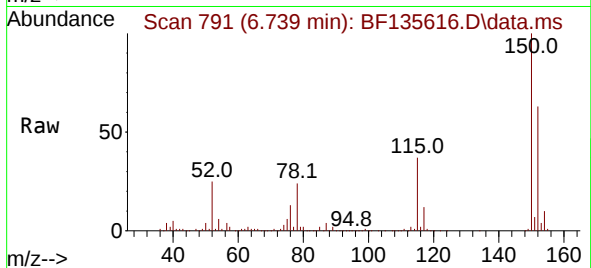
Reviewed By :Yogesh Patel 10/07/2023
Supervised By :mohammad ahmed 10/07/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.739 min Scan# 795
Delta R.T. 0.000 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56

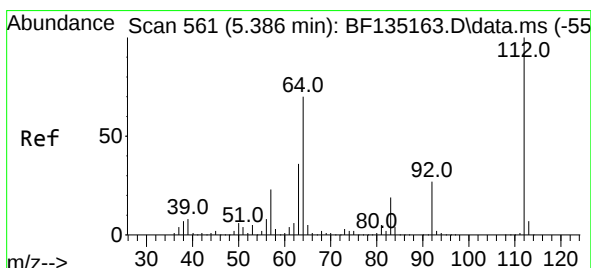
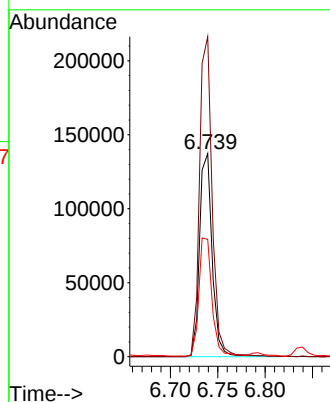
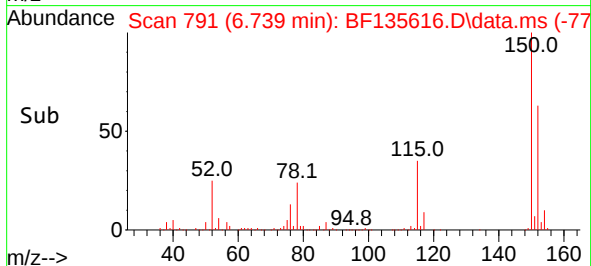
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)



Tgt Ion:152 Resp: 12721
Ion Ratio Lower Upper
152 100
150 157.6 127.8 191.6
115 57.8 49.8 74.8

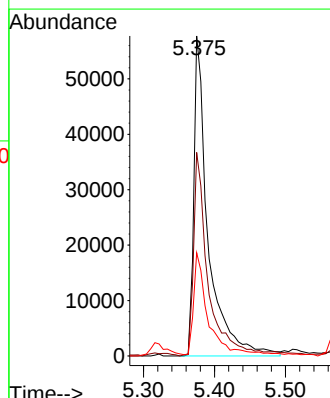
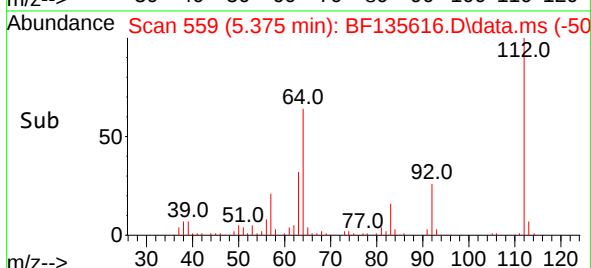
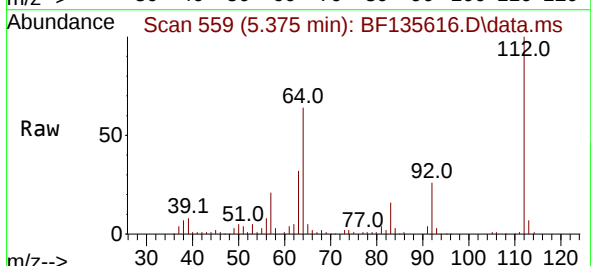
Manual Integrations
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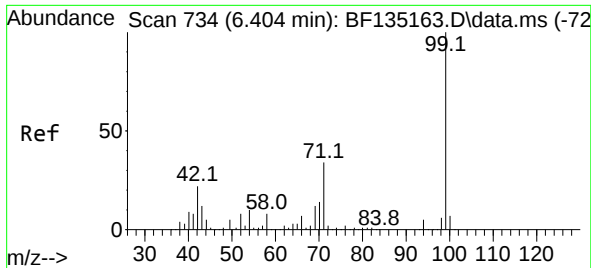
Reviewed By :Yogesh Patel 10/07/2023
Supervised By :mohammad ahmed 10/07/2023



#5
2-Fluorophenol
Concen: 10.382 ng
RT: 5.375 min Scan# 559
Delta R.T. 0.006 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56

Tgt Ion:112 Resp: 81203
Ion Ratio Lower Upper
112 100
64 63.6 55.9 83.9
63 32.3 29.0 43.6





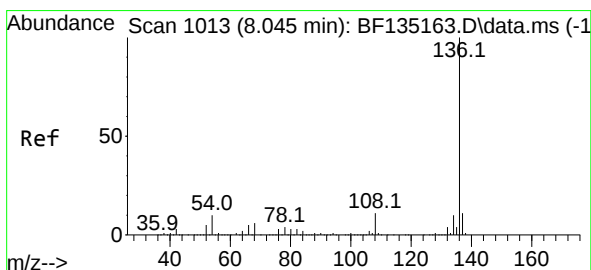
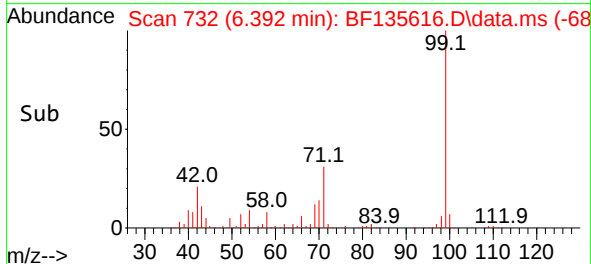
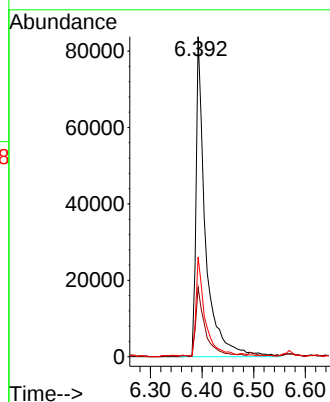
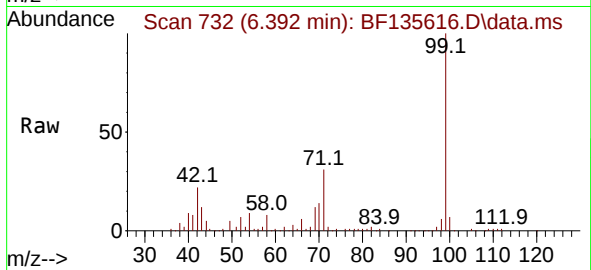
#7
Phenol-d6
Concen: 10.709 ng
RT: 6.392 min Scan# 71
Delta R.T. 0.006 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56

Instrument :
BNA_F
ClientSampleId :
I-4(0-5)

Tgt Ion: 99 Resp: 106508
Ion Ratio Lower Upper
99 100
42 21.6 17.9 26.9
71 31.1 27.0 40.6

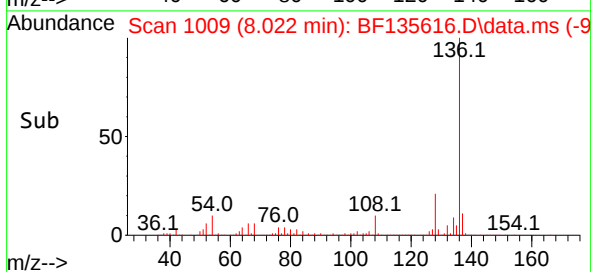
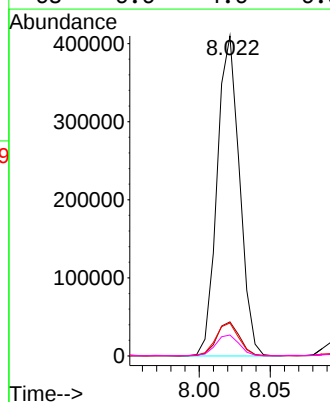
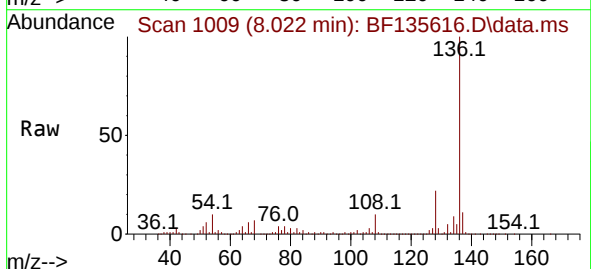
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Reviewed By :Yogesh Patel 10/07/2023
Supervised By :mohammad ahmed 10/07/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.022 min Scan# 1009
Delta R.T. 0.006 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56

Tgt Ion:136 Resp: 448438
Ion Ratio Lower Upper
136 100
137 10.7 8.8 13.2
54 10.3 7.7 11.5
68 6.6 4.6 6.8





#23

Nitrobenzene-d5

Concen: 7.525 ng

RT: 7.304 min Scan# 887

Delta R.T. -0.006 min

Lab File: BF135616.D

Acq: 05 Oct 2023 23:56

Instrument :

BNA_F

ClientSampleId :

1-4(0-5)

Tgt Ion: 82 Resp: 62114

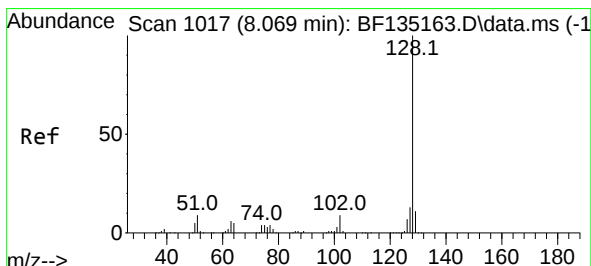
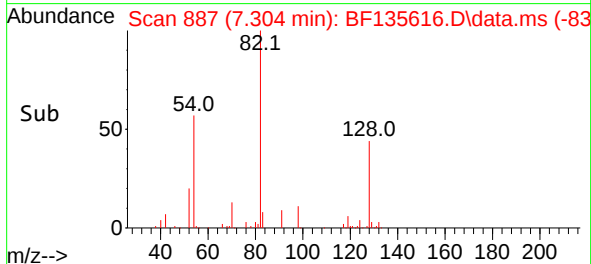
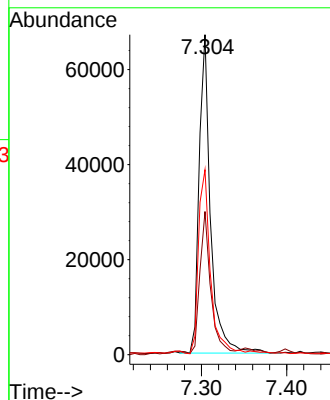
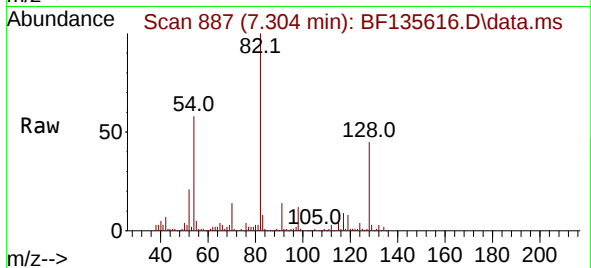
Ion	Ratio	Lower	Upper
82	100		
128	44.7	35.8	53.6
54	57.8	50.6	76.0

Manual Integrations

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Supervised By :mohammad ahmed 10/07/2023



#31

Naphthalene

Concen: 205.367 ng

RT: 8.051 min Scan# 1014

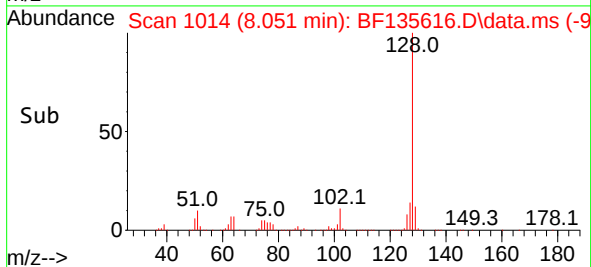
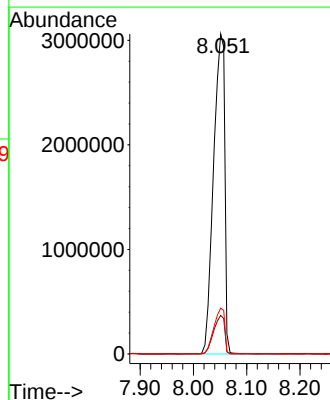
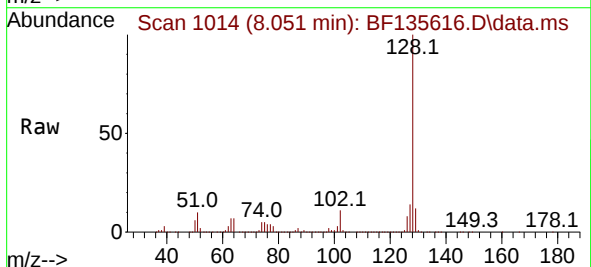
Delta R.T. 0.012 min

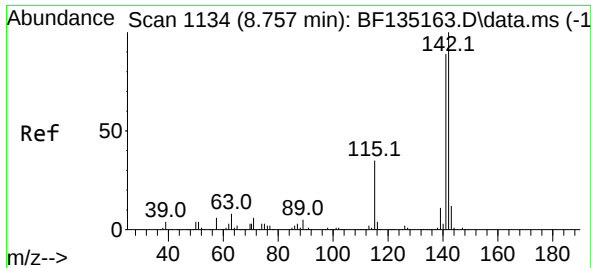
Lab File: BF135616.D

Acq: 05 Oct 2023 23:56

Tgt Ion:128 Resp: 4474588

Ion	Ratio	Lower	Upper
128	100		
129	12.1	8.7	13.1
127	14.3	10.7	16.1





#37

2-Methylnaphthalene

Concen: 98.890 ng

RT: 8.739 min Scan# 1131

Delta R.T. 0.006 min

Lab File: BF135616.D

Acq: 05 Oct 2023 23:56

Instrument :

BNA_F

ClientSampleId :

1-4(0-5)

Tgt Ion:142 Resp: 144834

Ion Ratio Lower Upper

142 100

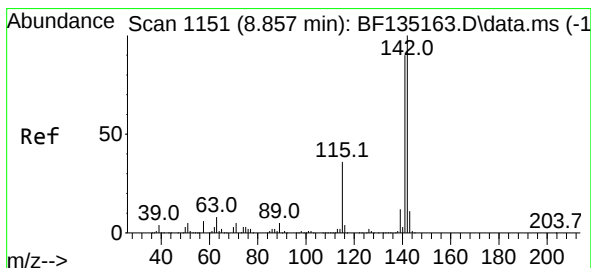
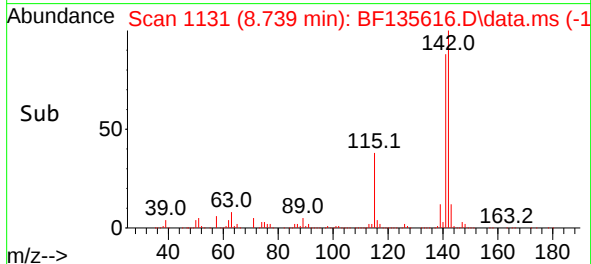
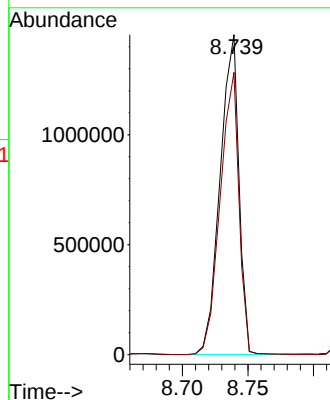
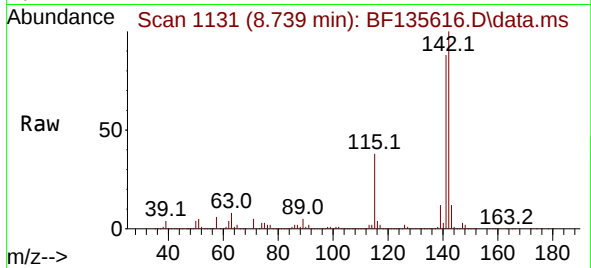
141 88.2 71.0 106.6

Manual Integrations

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Reviewed By :Yogesh Patel 10/07/2023

Supervised By :mohammad ahmed 10/07/2023



#38

1-Methylnaphthalene

Concen: 80.415 ng

RT: 8.833 min Scan# 1147

Delta R.T. 0.006 min

Lab File: BF135616.D

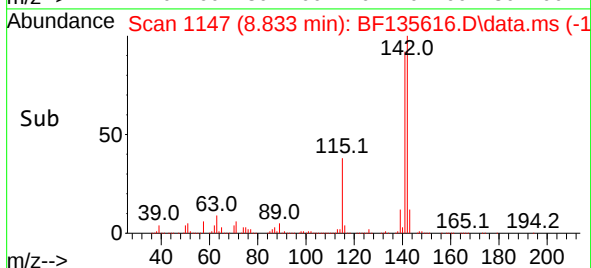
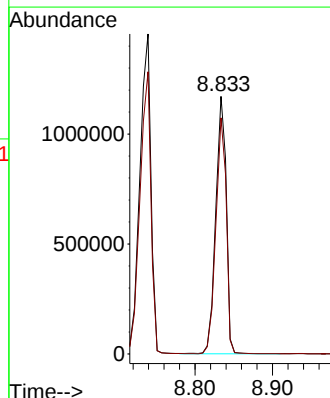
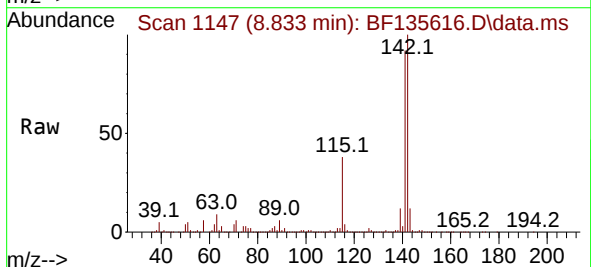
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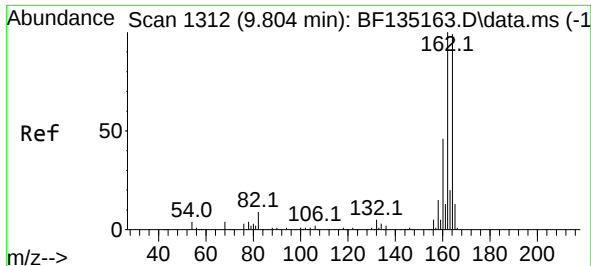
Tgt Ion:142 Resp: 1102668

Ion Ratio Lower Upper

142 100

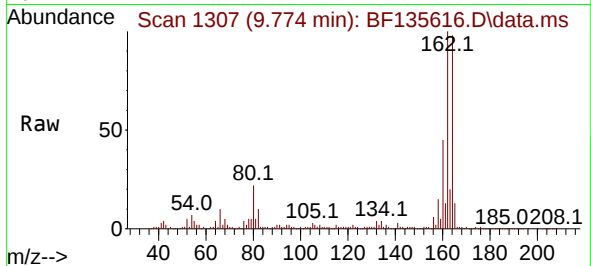
141 91.7 72.4 108.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.774 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56

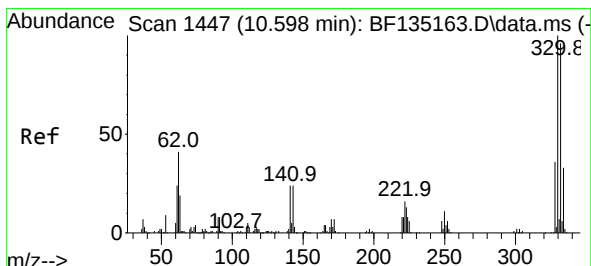
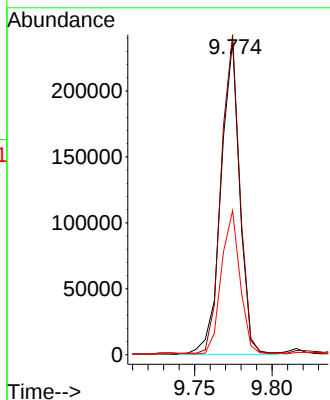
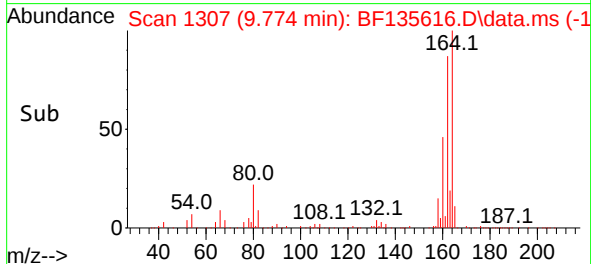
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)



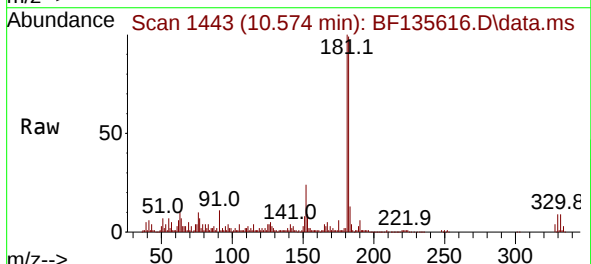
Tgt Ion:164 Resp: 200462
Ion Ratio Lower Upper
164 100
162 101.7 81.0 121.4
160 45.8 37.0 55.4

Manual Integrations
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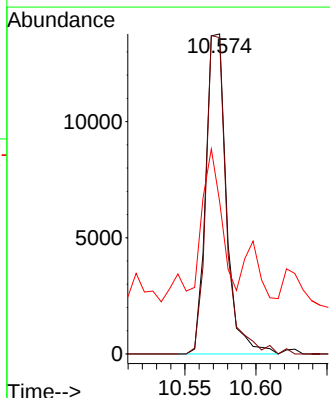
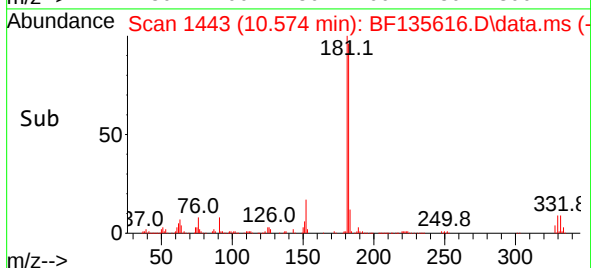
Reviewed By :Yogesh Patel 10/07/2023
Supervised By :mohammad ahmed 10/07/2023

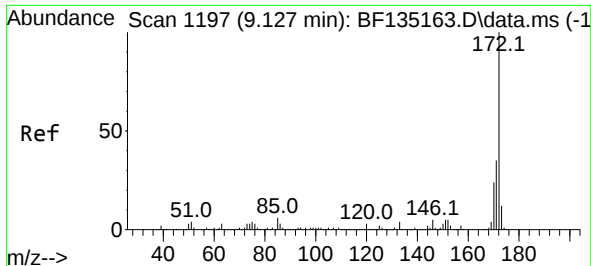


#42
2,4,6-Tribromophenol
Concen: 6.981 ng
RT: 10.574 min Scan# 1443
Delta R.T. 0.006 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56



Tgt Ion:330 Resp: 13906
Ion Ratio Lower Upper
330 100
332 98.7 77.3 115.9
141 50.9 25.8 38.8#





#45

2-Fluorobiphenyl

Concen: 9.225 ng

RT: 9.092 min Scan# 1197

Delta R.T. -0.006 min

Lab File: BF135616.D

Acq: 05 Oct 2023 23:56

Instrument :

BNA_F

ClientSampleId :

1-4(0-5)

Tgt Ion:172 Resp: 122568

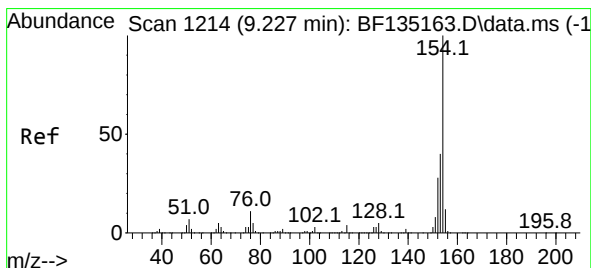
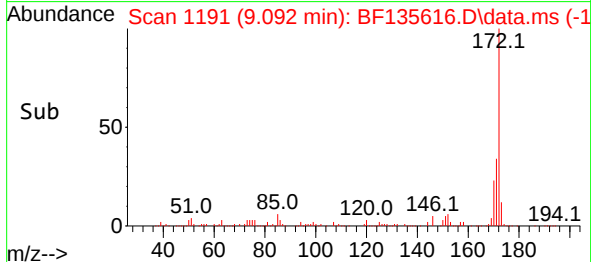
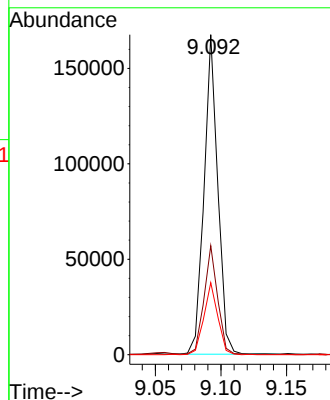
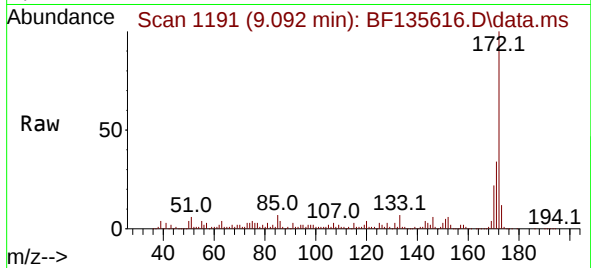
Ion	Ratio	Lower	Upper
172	100		
171	34.0	28.4	42.6
170	22.5	19.0	28.4

Manual Integrations

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Supervised By :mohammad ahmed 10/07/2023



#46

1,1'-Biphenyl

Concen: 33.602 ng

RT: 9.192 min Scan# 1208

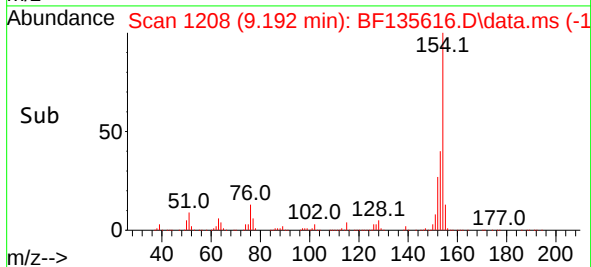
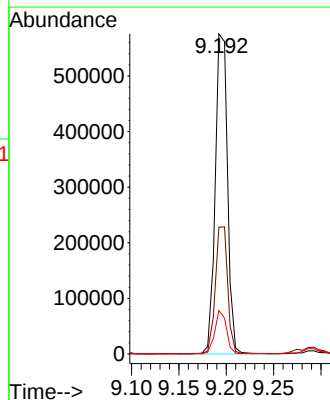
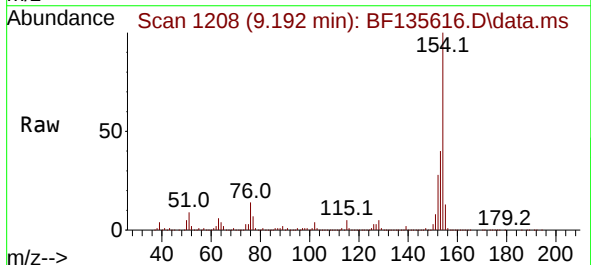
Delta R.T. -0.006 min

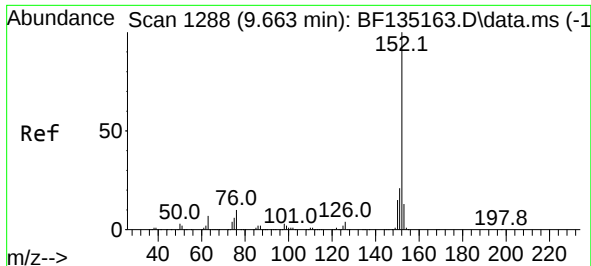
Lab File: BF135616.D

Acq: 05 Oct 2023 23:56

Tgt Ion:154 Resp: 517640

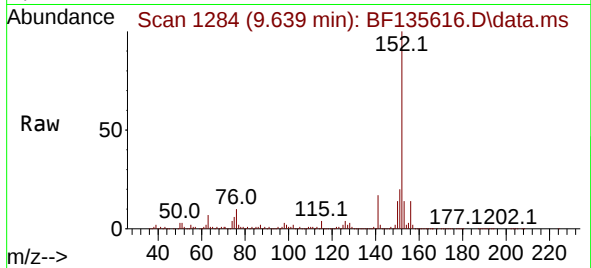
Ion	Ratio	Lower	Upper
154	100		
153	39.6	19.6	59.6
76	13.5	0.0	31.0





#49
Acenaphthylene
Concen: 29.152 ng
RT: 9.639 min Scan# 1284
Delta R.T. 0.000 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56

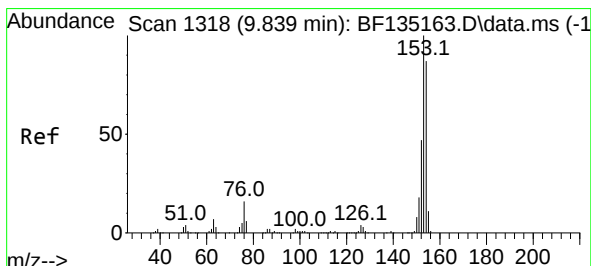
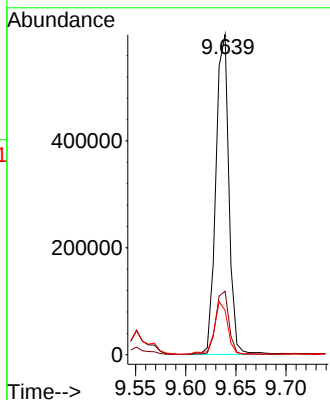
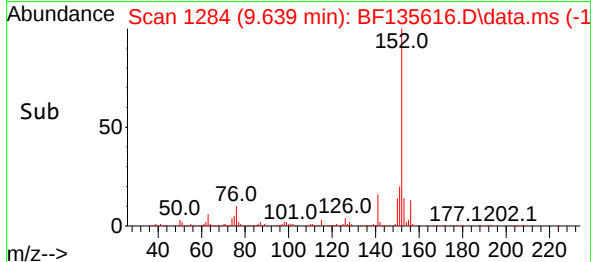
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)



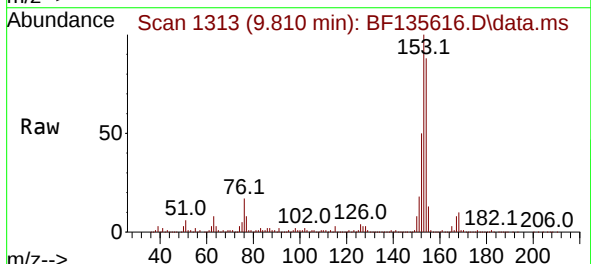
Tgt Ion:152 Resp: 541530
Ion Ratio Lower Upper
152 100
151 19.8 16.4 24.6
153 13.9 10.4 15.6

Manual Integrations
APPROVED

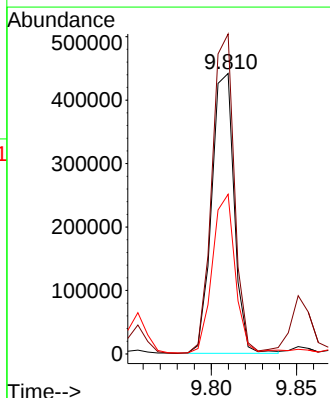
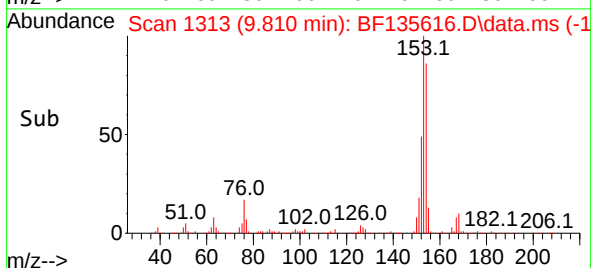
Reviewed By :Yogesh Patel 10/07/2023
Supervised By :mohammad ahmed 10/07/2023

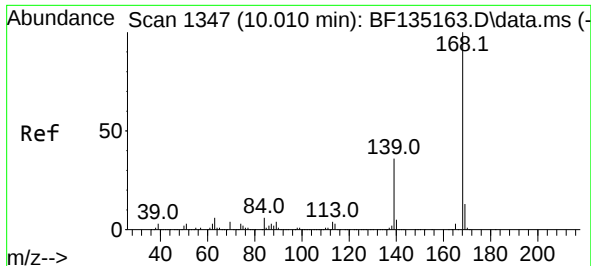


#52
Acenaphthene
Concen: 36.929 ng
RT: 9.810 min Scan# 1313
Delta R.T. 0.000 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56



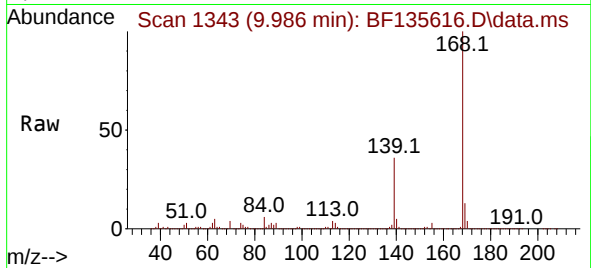
Tgt Ion:154 Resp: 405246
Ion Ratio Lower Upper
154 100
153 114.1 92.1 138.1
152 56.9 43.1 64.7





#55
Dibenzenofuran
Concen: 62.360 ng
RT: 9.986 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56

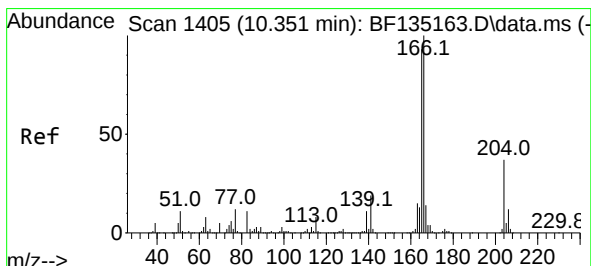
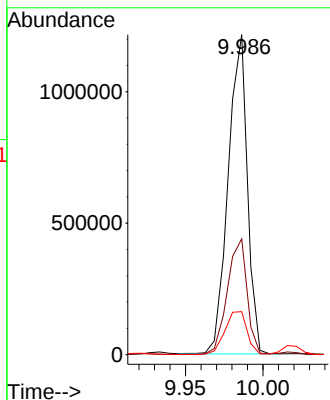
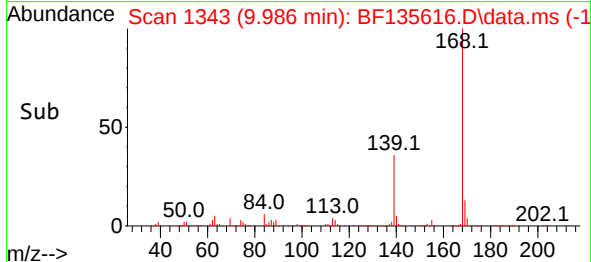
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)



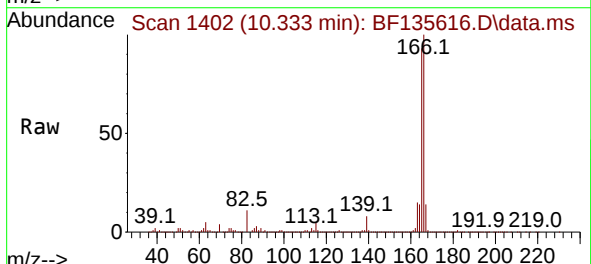
Tgt Ion:168 Resp: 104425
Ion Ratio Lower Upper
168 100
139 36.2 29.0 43.6
169 13.5 10.4 15.6

Manual Integrations
APPROVED

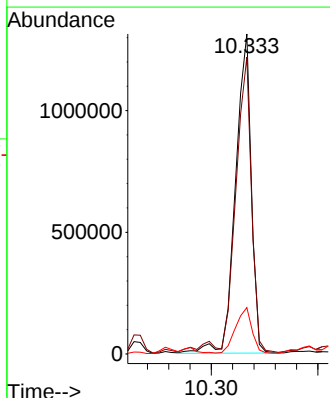
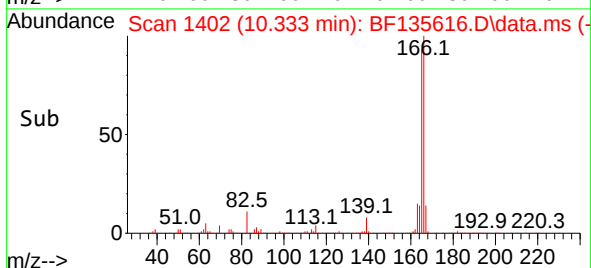
Reviewed By :Yogesh Patel 10/07/2023
Supervised By :mohammad ahmed 10/07/2023

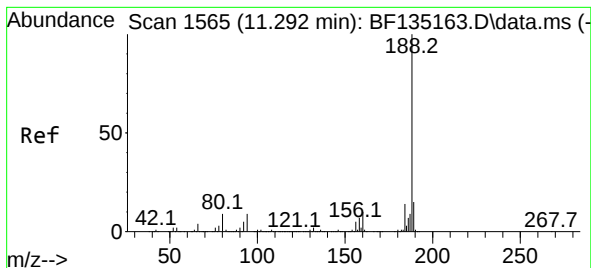


#58
Fluorene
Concen: 104.983 ng
RT: 10.333 min Scan# 1402
Delta R.T. 0.006 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56



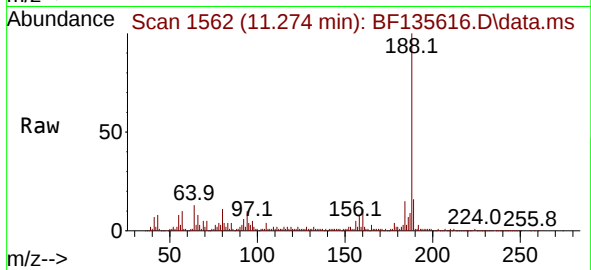
Tgt Ion:166 Resp: 1351488
Ion Ratio Lower Upper
166 100
165 92.8 74.3 111.5
167 14.5 10.9 16.3





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.274 min Scan# 1562
Delta R.T. 0.006 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56

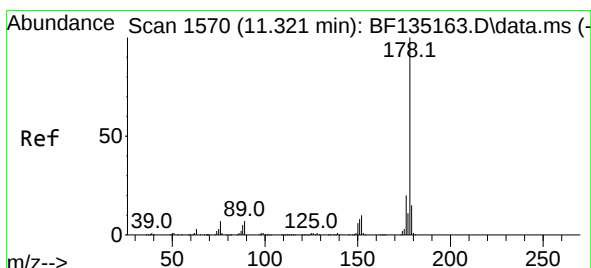
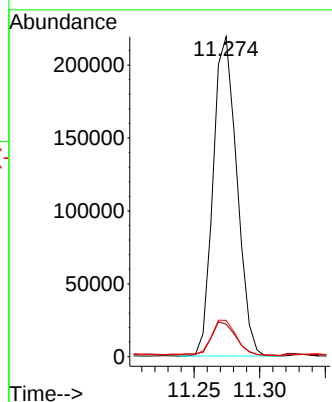
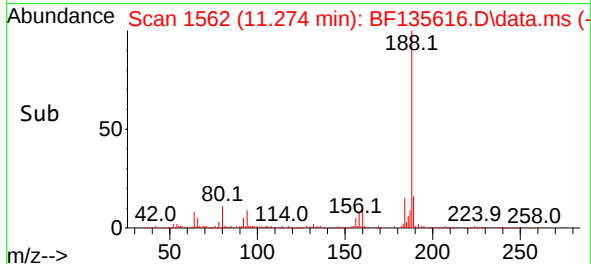
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)



Tgt Ion:188 Resp: 27593
Ion Ratio Lower Upper
188 100
94 10.2 7.0 10.6
80 11.3 7.5 11.3

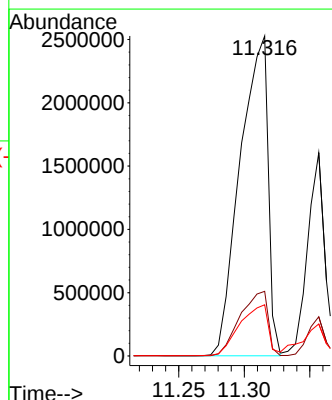
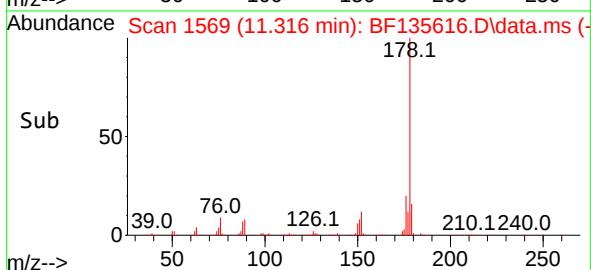
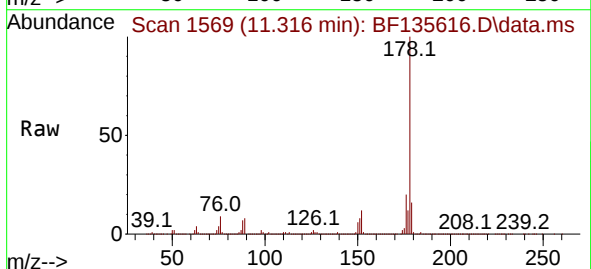
Manual Integrations
APPROVED

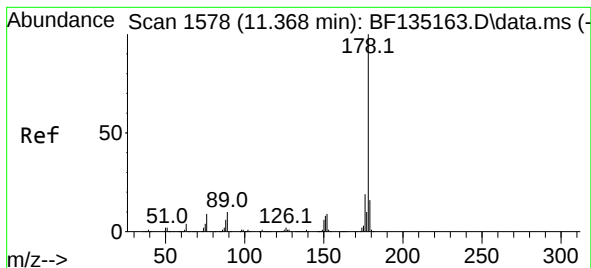
Reviewed By :Yogesh Patel 10/07/2023
Supervised By :mohammad ahmed 10/07/2023



#71
Phenanthrene
Concen: 286.608 ng
RT: 11.316 min Scan# 1569
Delta R.T. 0.024 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56

Tgt Ion:178 Resp: 3740359
Ion Ratio Lower Upper
178 100
176 20.2 15.6 23.4
179 16.0 12.0 18.0





#72

Anthracene

Concen: 103.291 ng

RT: 11.357 min Scan# 11

Delta R.T. 0.012 min

Lab File: BF135616.D

Acq: 05 Oct 2023 23:56

Instrument :

BNA_F

ClientSampleId :

1-4(0-5)

Tgt Ion:178 Resp: 1385594

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

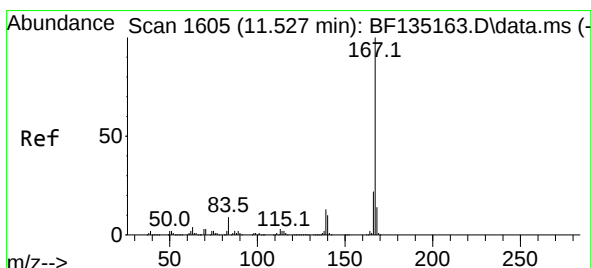
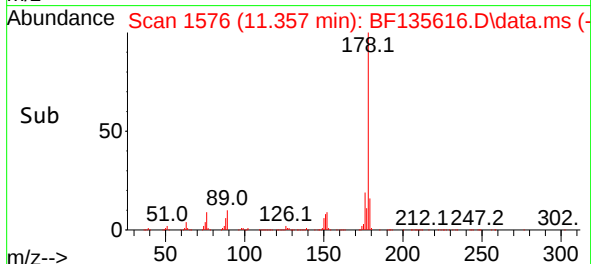
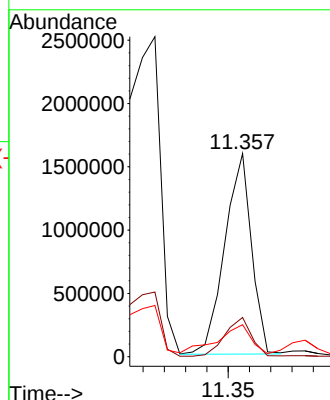
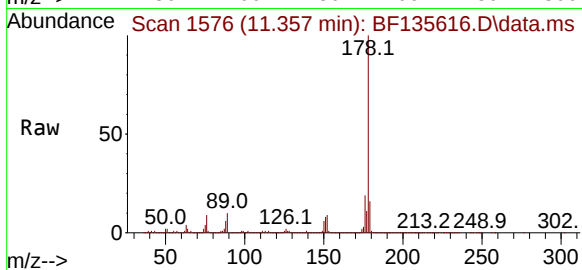
179 15.7 12.6 19.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/07/2023

Supervised By :mohammad ahmed 10/07/2023



#73

Carbazole

Concen: 36.303 ng

RT: 11.510 min Scan# 1602

Delta R.T. 0.000 min

Lab File: BF135616.D

Acq: 05 Oct 2023 23:56

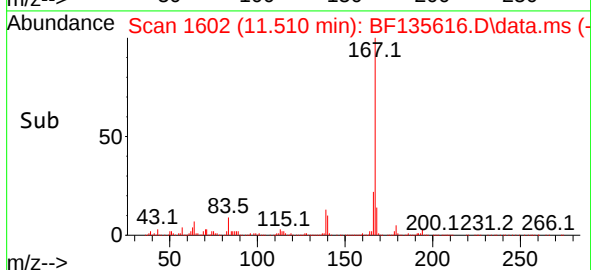
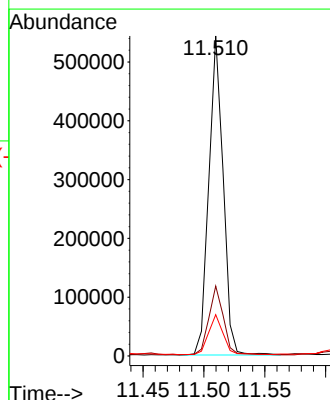
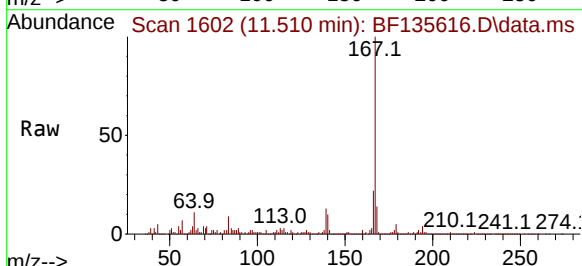
Tgt Ion:167 Resp: 443319

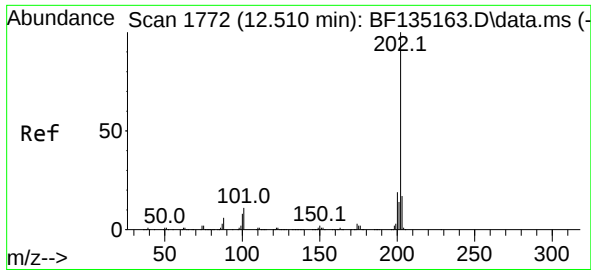
Ion Ratio Lower Upper

167 100

166 21.9 17.4 26.0

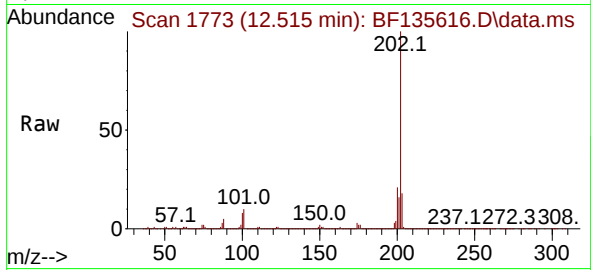
139 12.9 10.6 15.8





#75
Fluoranthene
Concen: 237.496 ng
RT: 12.515 min Scan# 11
Delta R.T. 0.029 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56

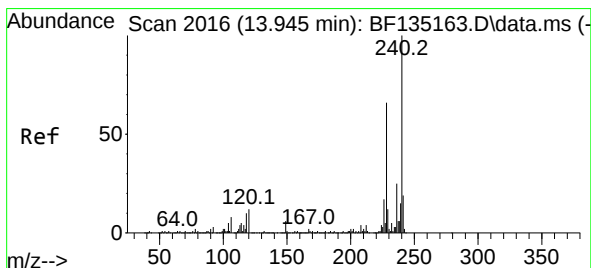
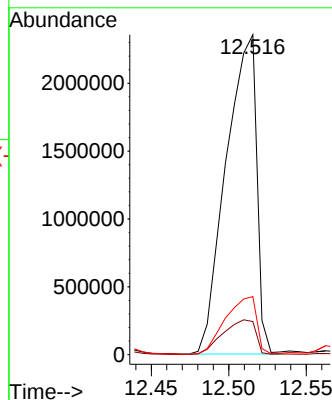
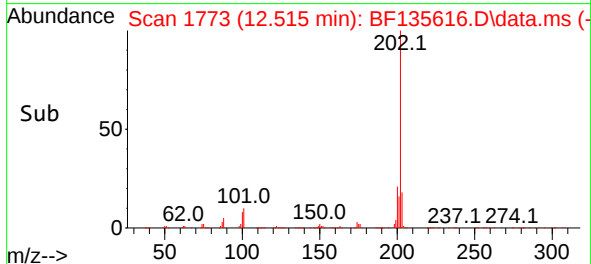
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)



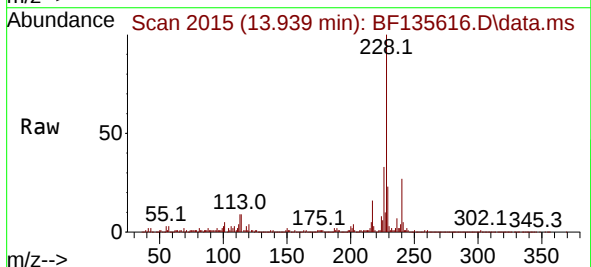
Tgt Ion:202 Resp: 322956
Ion Ratio Lower Upper
202 100
101 10.3 0.0 31.3
203 18.2 0.0 37.4

Manual Integrations
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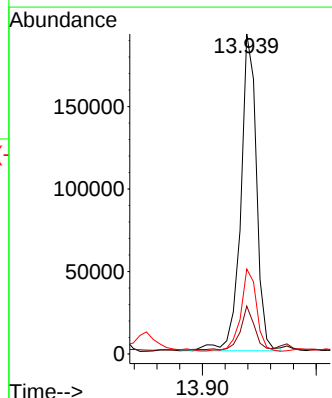
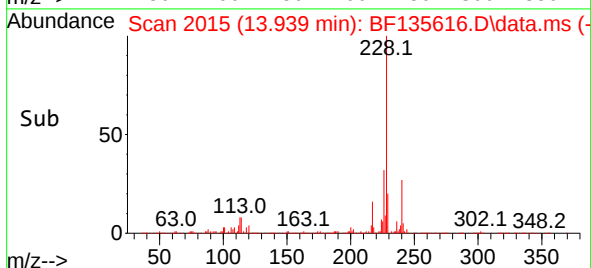
Reviewed By :Yogesh Patel 10/07/2023
Supervised By :mohammad ahmed 10/07/2023

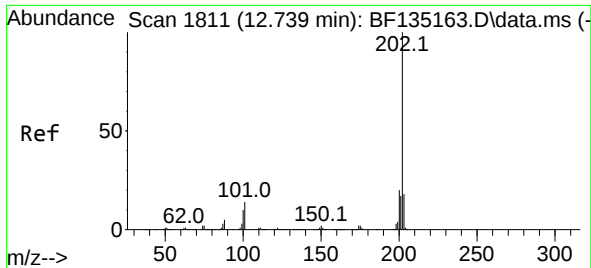


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2015
Delta R.T. 0.012 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56



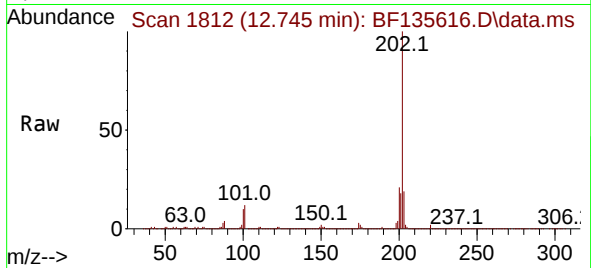
Tgt Ion:240 Resp: 184766
Ion Ratio Lower Upper
240 100
120 15.0 9.4 14.2#
236 26.5 19.8 29.8





#78
Pyrene
Concen: 171.740 ng
RT: 12.745 min Scan# 1811
Delta R.T. 0.029 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56

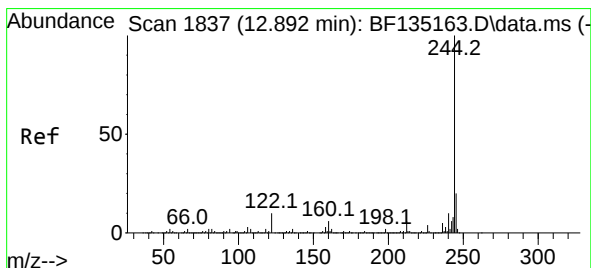
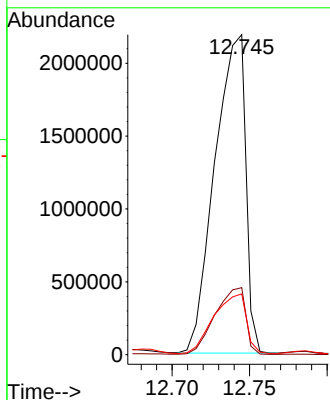
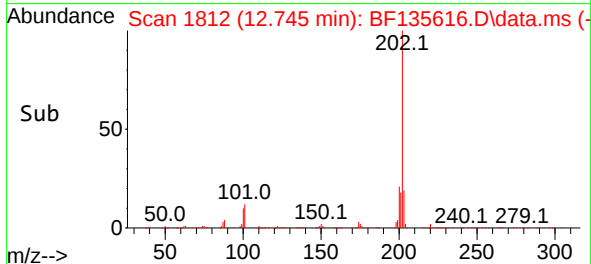
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)



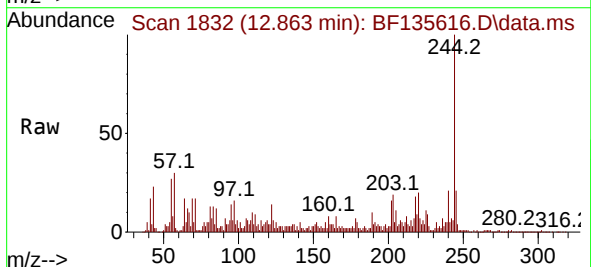
Tgt Ion:202 Resp: 3021100
Ion Ratio Lower Upper
202 100
200 21.0 16.2 24.2
203 19.0 14.2 21.4

Manual Integrations
APPROVED

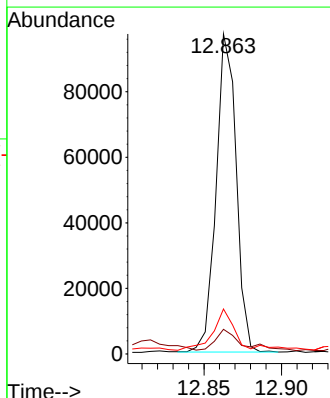
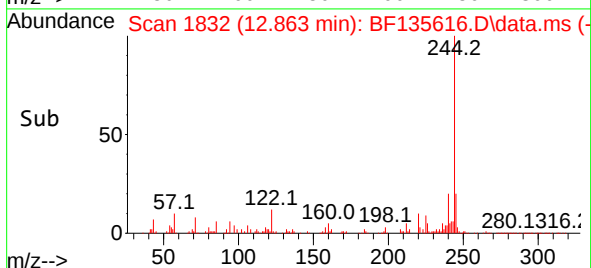
Reviewed By :Yogesh Patel 10/07/2023
Supervised By :mohammad ahmed 10/07/2023

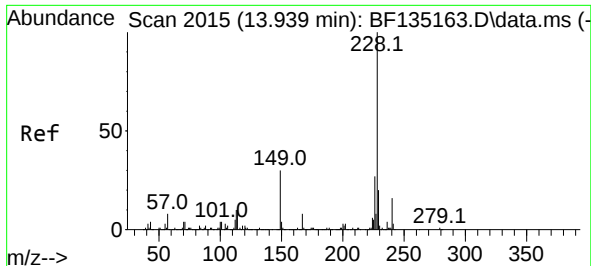


#79
Terphenyl-d14
Concen: 7.324 ng
RT: 12.863 min Scan# 1832
Delta R.T. 0.000 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56



Tgt Ion:244 Resp: 87299
Ion Ratio Lower Upper
244 100
212 7.7 5.1 7.7#
122 14.0 7.9 11.9#





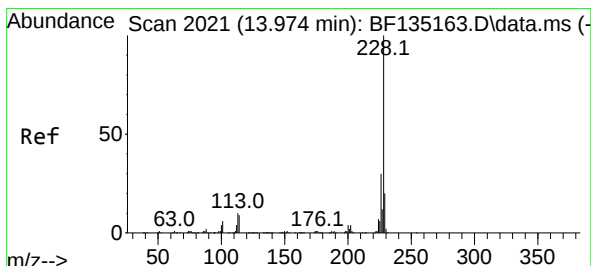
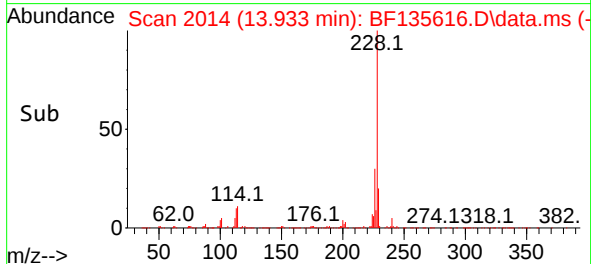
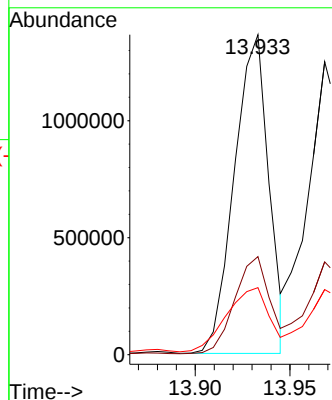
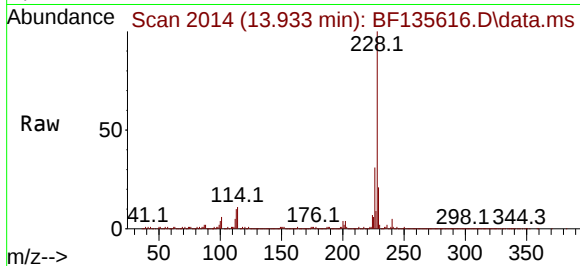
#81
Benzo(a)anthracene
Concen: 144.400 ng
RT: 13.933 min Scan# 2014
Delta R.T. 0.018 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56

Instrument :
BNA_F
ClientSampleId :
I-4(0-5)

Tgt Ion:228 Resp: 1722808
Ion Ratio Lower Upper
228 100
226 30.6 21.7 32.5
229 21.0 15.8 23.8

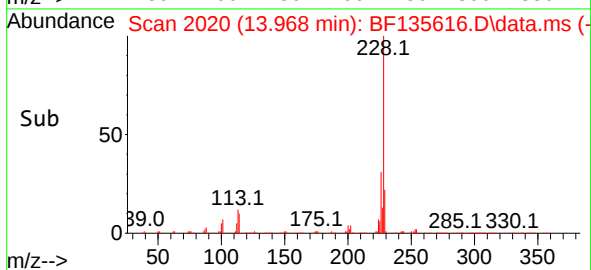
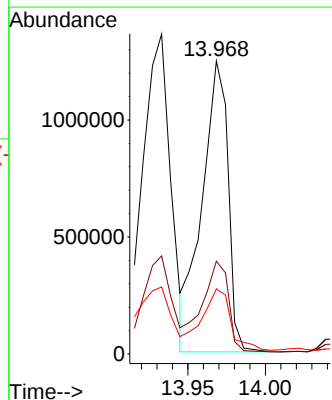
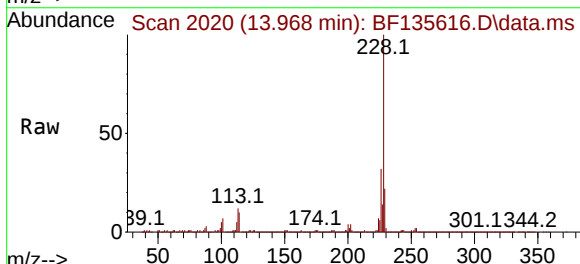
Manual Integrations
APPROVED

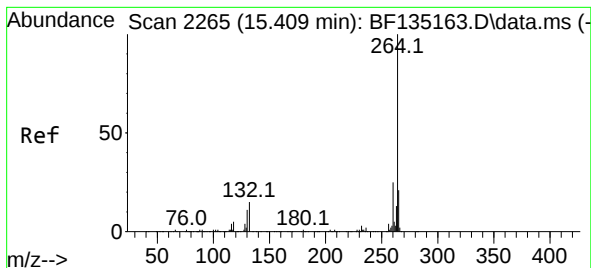
Reviewed By :Yogesh Patel 10/07/2023
Supervised By :mohammad ahmed 10/07/2023



#83
Chrysene
Concen: 122.716 ng
RT: 13.968 min Scan# 2020
Delta R.T. 0.018 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56

Tgt Ion:228 Resp: 1455661
Ion Ratio Lower Upper
228 100
226 31.7 24.3 36.5
229 22.2 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.404 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF135616.D

Acq: 05 Oct 2023 23:56

Instrument :

BNA_F

ClientSampleId :

1-4(0-5)

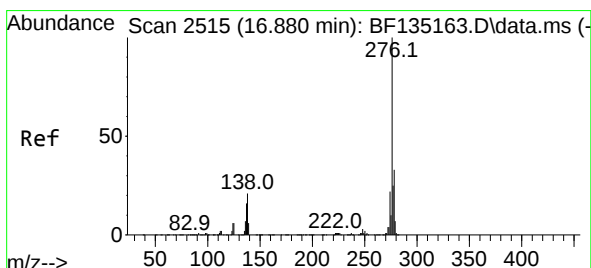
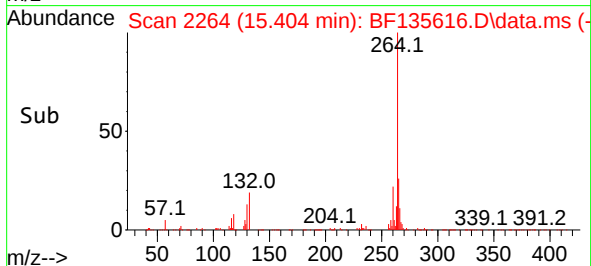
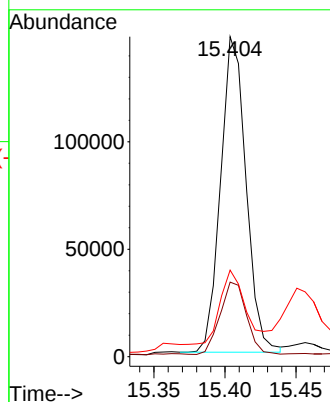
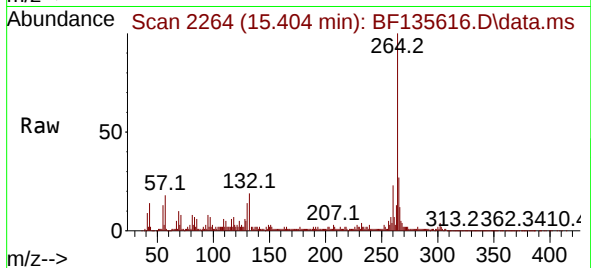
Tgt Ion:	264	Resp:	182600
Ion Ratio	Lower	Upper	
264	100		
260	23.3	19.8	29.6
265	27.1	17.0	25.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/07/2023

Supervised By :mohammad ahmed 10/07/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 38.774 ng

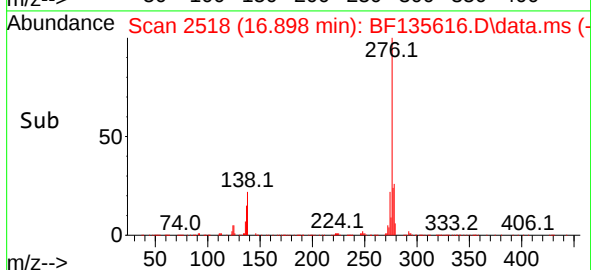
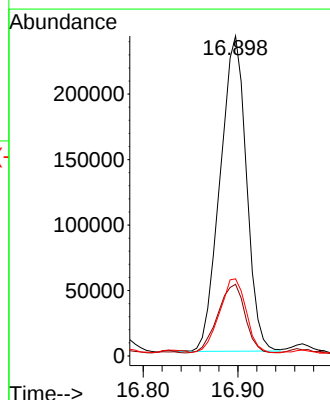
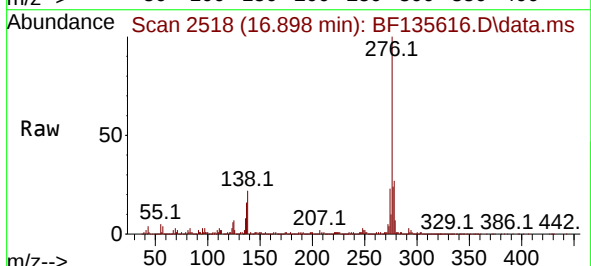
RT: 16.898 min Scan# 2518

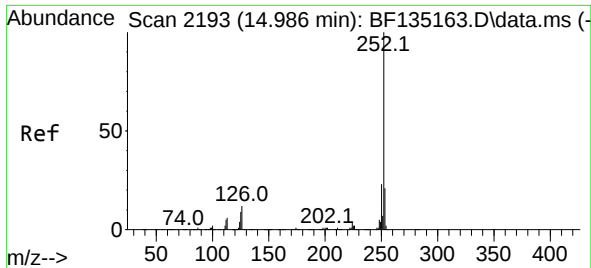
Delta R.T. 0.029 min

Lab File: BF135616.D

Acq: 05 Oct 2023 23:56

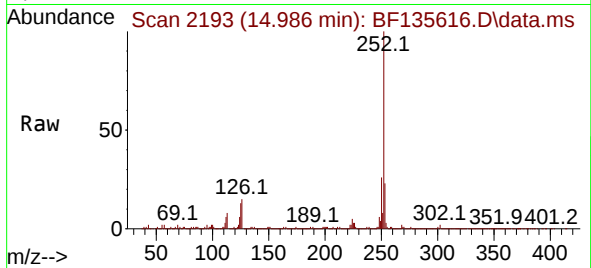
Tgt Ion:	276	Resp:	464228
Ion Ratio	Lower	Upper	
276	100		
138	22.7	19.2	28.8
277	23.9	19.7	29.5





#88
Benzo(b)fluoranthene
Concen: 138.957 ng m
RT: 14.986 min Scan# 2193
Delta R.T. 0.024 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56

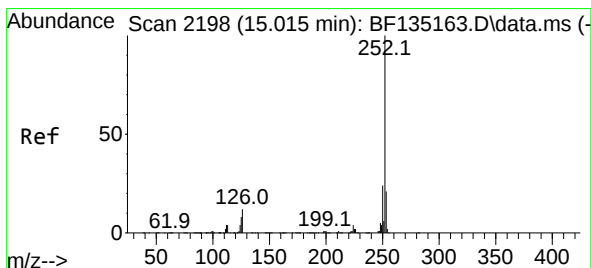
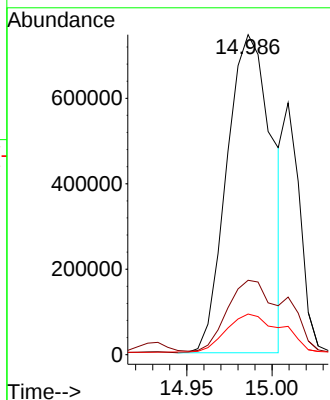
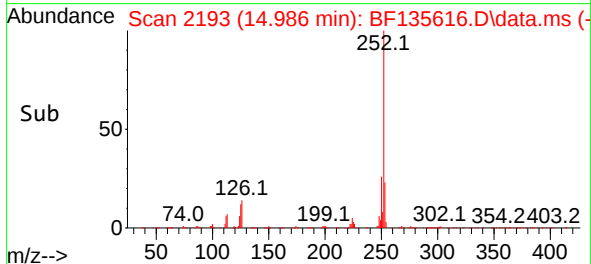
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)



Tgt Ion:252 Resp: 137360
Ion Ratio Lower Upper
252 100
253 23.3 17.2 25.8
125 12.7 7.1 10.7

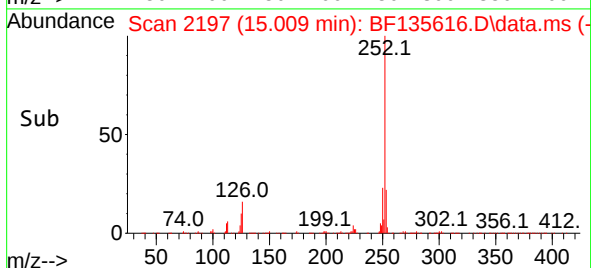
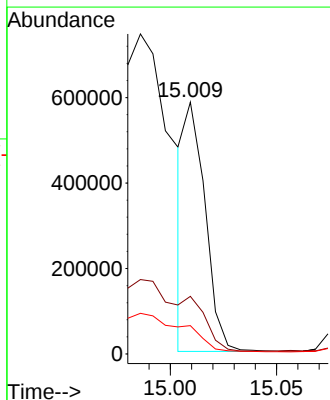
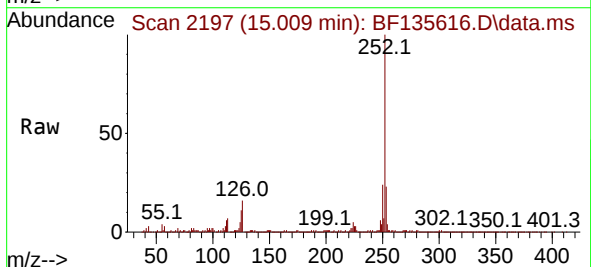
Manual Integrations
APPROVED

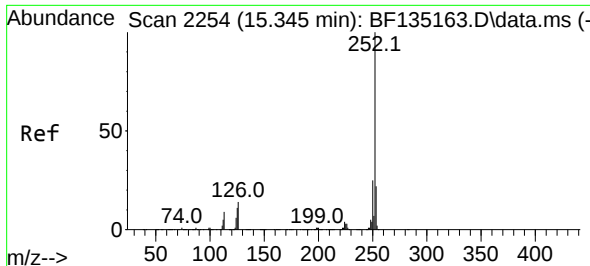
Reviewed By :Yogesh Patel 10/07/2023
Supervised By :mohammad ahmed 10/07/2023



#89
Benzo(k)fluoranthene
Concen: 39.643 ng m
RT: 15.009 min Scan# 2197
Delta R.T. 0.018 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56

Tgt Ion:252 Resp: 387103
Ion Ratio Lower Upper
252 100
253 22.9 17.4 26.0
125 11.3 7.2 10.8





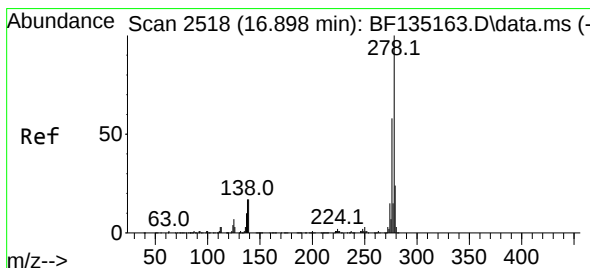
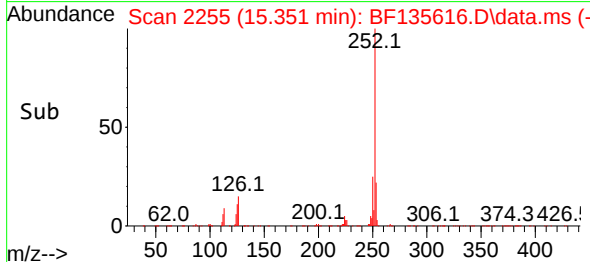
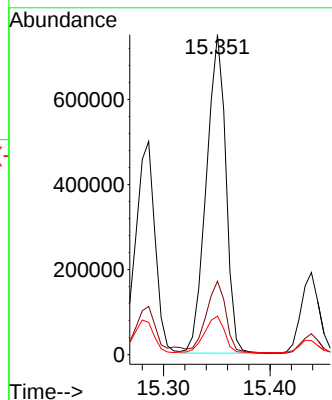
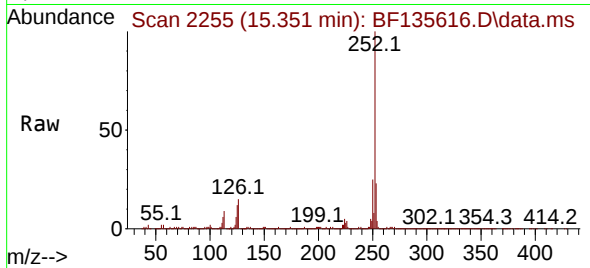
#90
Benzo(a)pyrene
Concen: 101.482 ng
RT: 15.351 min Scan# 21
Delta R.T. 0.024 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56

Instrument :
BNA_F
ClientSampleId :
I-4(0-5)

Tgt Ion:252 Resp: 95664
Ion Ratio Lower Upper
252 100
253 23.0 17.5 26.3
125 12.1 9.2 13.8

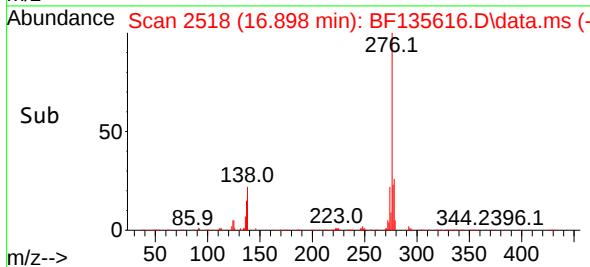
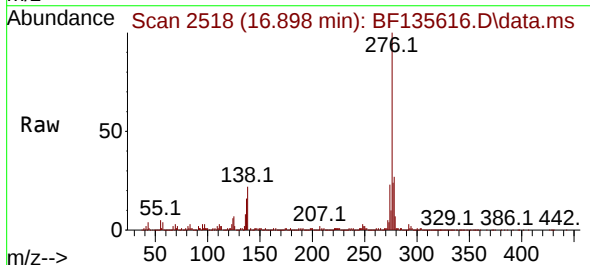
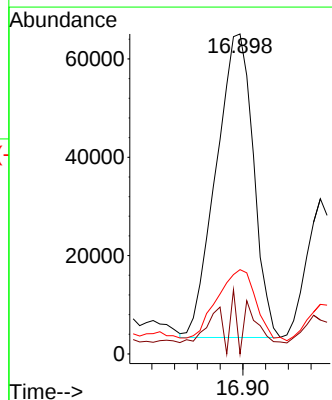
Manual Integrations
APPROVED

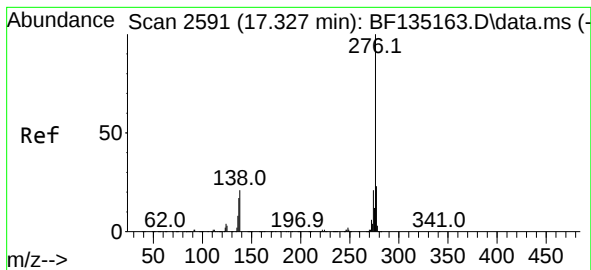
Reviewed By :Yogesh Patel 10/07/2023
Supervised By :mohammad ahmed 10/07/2023



#91
Dibenzo(a,h)anthracene
Concen: 14.336 ng m
RT: 16.898 min Scan# 2518
Delta R.T. 0.018 min
Lab File: BF135616.D
Acq: 05 Oct 2023 23:56

Tgt Ion:278 Resp: 140437
Ion Ratio Lower Upper
278 100
139 0.0 13.4 20.0#
279 26.3 19.0 28.6





#92

Benzo(g,h,i)perylene

Concen: 42.280 ng

RT: 17.345 min Scan# 21

Delta R.T. 0.029 min

Lab File: BF135616.D

Acq: 05 Oct 2023 23:56

Instrument :

BNA_F

ClientSampleId :

1-4(0-5)

Tgt Ion:276 Resp: 43256

Ion Ratio Lower Upper

276 100

277 23.9 18.8 28.2

138 22.6 16.9 25.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/07/2023

Supervised By :mohammad ahmed 10/07/2023

