

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082323\
 Data File : BF134913.D
 Acq On : 23 Aug 2023 19:50
 Operator : CG\JU
 Sample : 04082-01 10X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 277

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/24/2023
 Supervised By :mohammad ahmed 08/24/2023

Quant Time: Aug 24 04:30:06 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 22 19:33:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.793	152	114380	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	407348	20.000	ng	0.00
39) Acenaphthene-d10	9.834	164	174802	20.000	ng	0.00
64) Phenanthrene-d10	11.322	188	315885	20.000	ng	0.00
76) Chrysene-d12	13.980	240	195459	20.000	ng	0.00
86) Perylene-d12	15.457	264	164267	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	57550	8.023	ng	0.00
7) Phenol-d6	6.428	99	71570	7.809	ng	-0.01
23) Nitrobenzene-d5	7.351	82	36864	4.987	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	12870	6.251	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	78155	6.912	ng	0.00
79) Terphenyl-d14	12.922	244	79872	5.620	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.092	128	42844	2.106	ng	99
37) 2-Methylnaphthalene	8.787	142	37141	2.738	ng	98
38) 1-Methylnaphthalene	8.887	142	34575	2.726	ng	98
52) Acenaphthene	9.863	154	29240	2.924	ng	98
55) Dibenzofuran	10.034	168	40533	2.784	ng	# 92
58) Fluorene	10.381	166	39897	3.614	ng	99
71) Phenanthrene	11.351	178	736149	44.472	ng	99
72) Anthracene	11.398	178	150378	8.867	ng	99
73) Carbazole	11.557	167	56626	4.052	ng	99
75) Fluoranthene	12.551	202	982563	62.647	ng	98
78) Pyrene	12.780	202	923549	44.565	ng	100
81) Benzo(a)anthracene	13.974	228	338329	25.370	ng	97
83) Chrysene	14.010	228	300041	22.803	ng	99
87) Indeno(1,2,3-cd)pyrene	16.945	276	109349	9.313	ng	95
88) Benzo(b)fluoranthene	15.027	252	300227m	32.394	ng	
89) Benzo(k)fluoranthene	15.051	252	87881m	9.656	ng	
90) Benzo(a)pyrene	15.392	252	211928	22.906	ng	99
91) Dibenzo(a,h)anthracene	16.962	278	28761	3.027	ng	# 91
92) Benzo(g,h,i)perylene	17.398	276	105750	10.874	ng	98

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

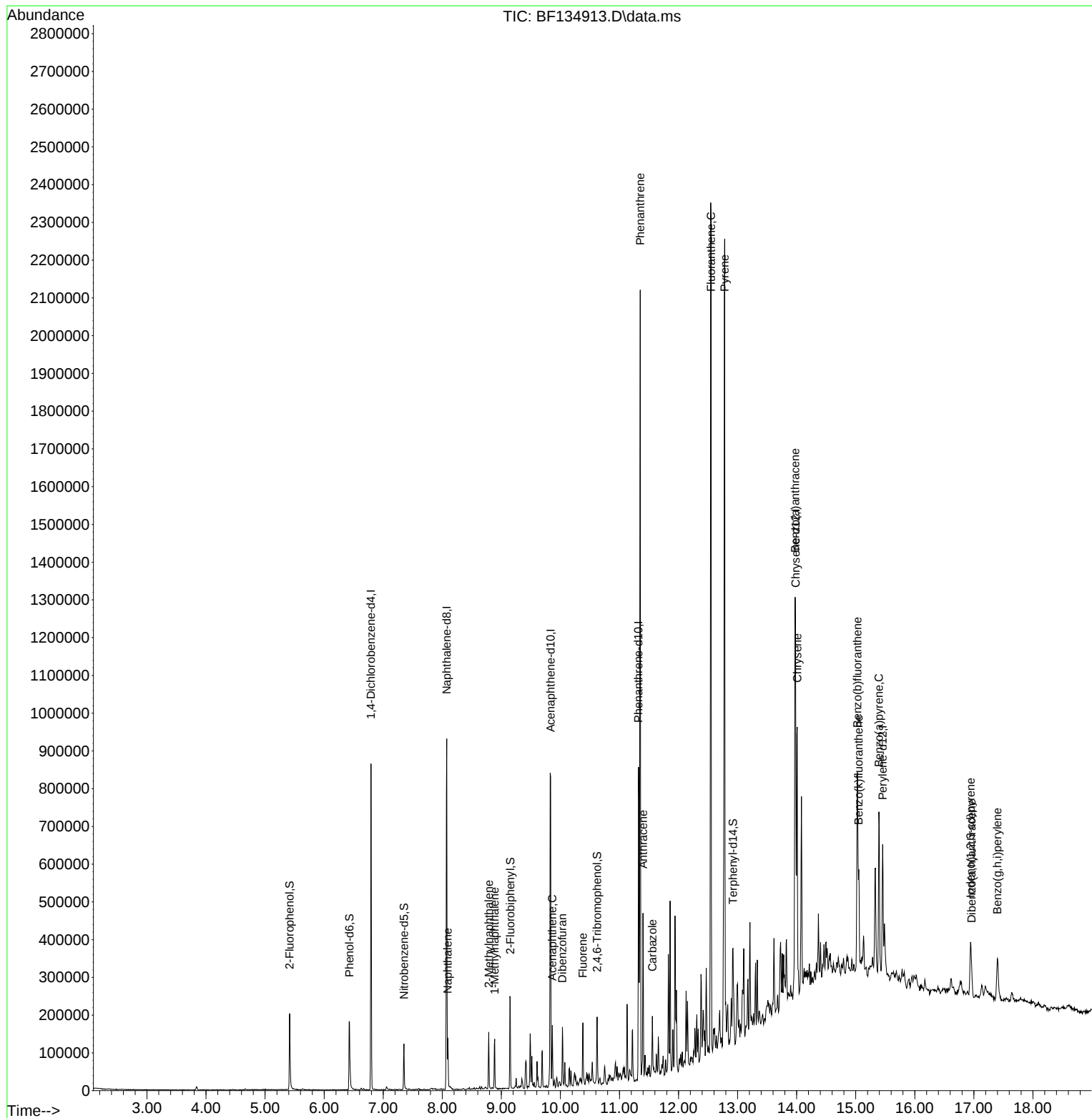
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082323\
Data File : BF134913.D
Acq On : 23 Aug 2023 19:50
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Misc :
ALS Vial : 22 Sample Multiplier: 1

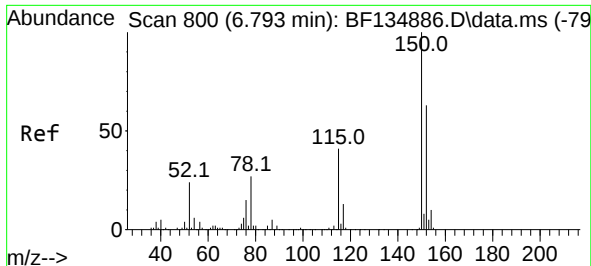
Instrument :
BNA_F
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Quant Time: Aug 24 04:30:06 2023
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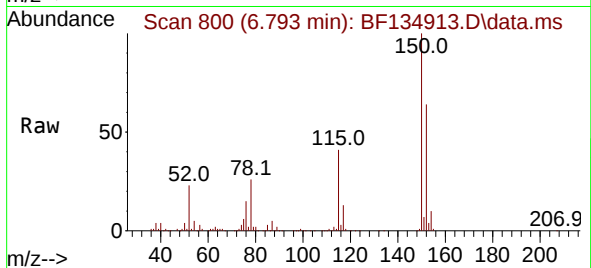
Reviewed By :Yogesh Patel 08/24/2023
Supervised By :mohammad ahmed 08/24/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.793 min Scan# 800
Delta R.T. -0.000 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

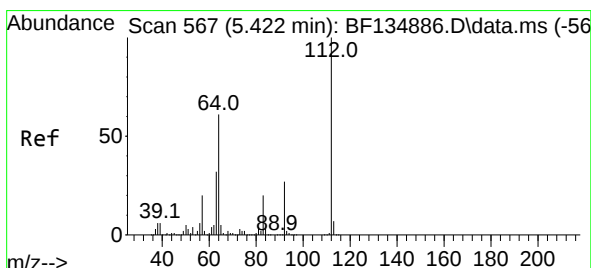
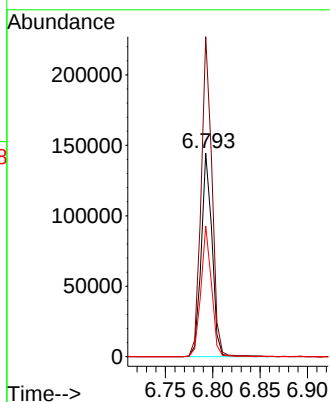
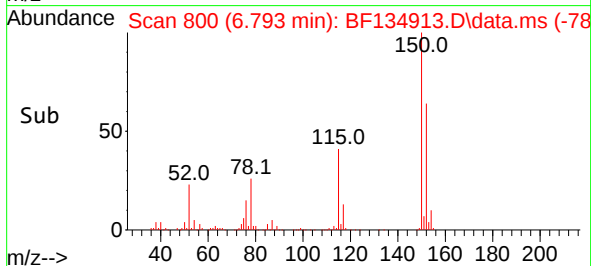
Instrument :
BNA_F
ClientSampleId :
277



Tgt Ion:152 Resp: 114380
Ion Ratio Lower Upper
152 100
150 157.2 126.1 189.1
115 64.2 51.1 76.7

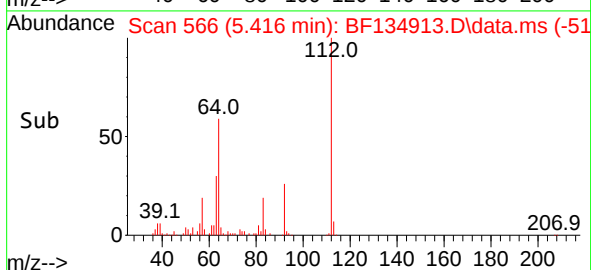
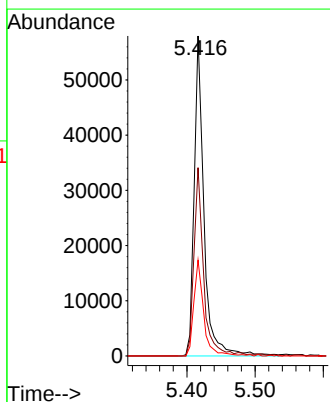
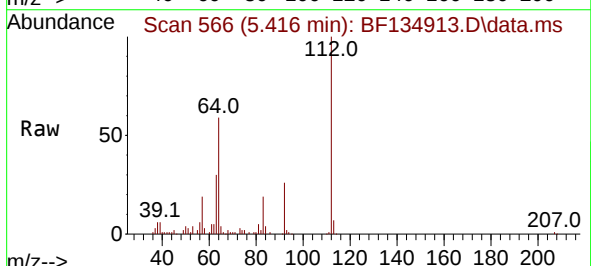
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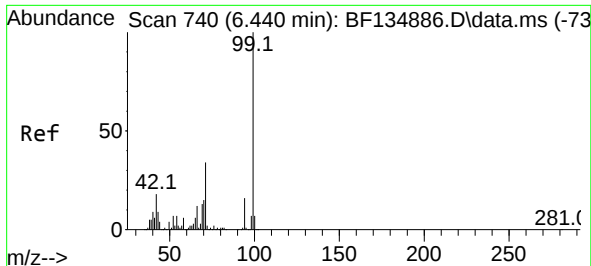
Reviewed By :Yogesh Patel 08/24/2023
Supervised By :mohammad ahmed 08/24/2023



#5
2-Fluorophenol
Concen: 8.023 ng
RT: 5.416 min Scan# 566
Delta R.T. -0.006 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

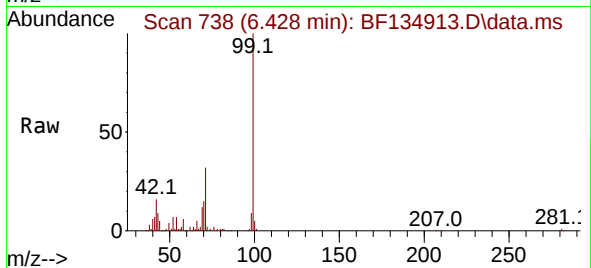
Tgt Ion:112 Resp: 57550
Ion Ratio Lower Upper
112 100
64 58.8 48.6 73.0
63 29.9 25.7 38.5





#7
Phenol-d6
Concen: 7.809 ng
RT: 6.428 min Scan# 71570
Delta R.T. -0.012 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

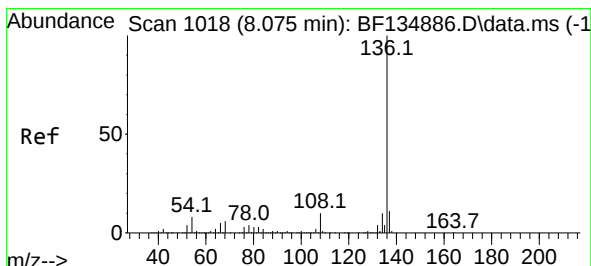
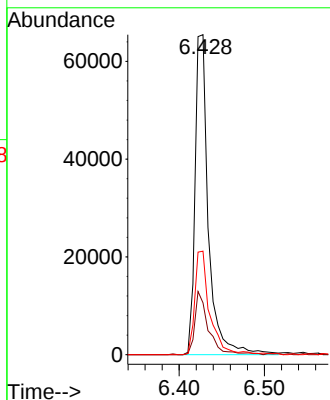
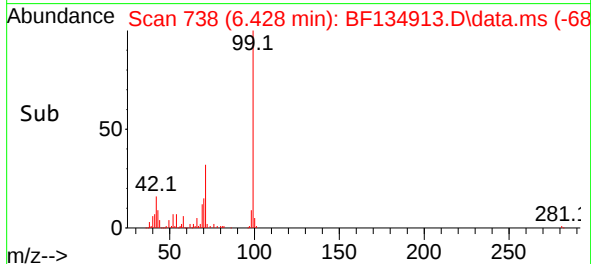
Instrument :
BNA_F
ClientSampleId :
277



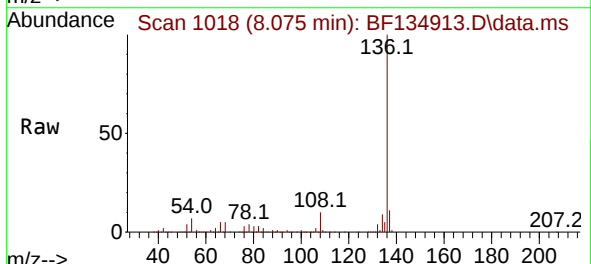
Tgt Ion: 99 Resp: 71570
Ion Ratio Lower Upper
99 100
42 16.2 14.6 22.0
71 32.3 27.6 41.4

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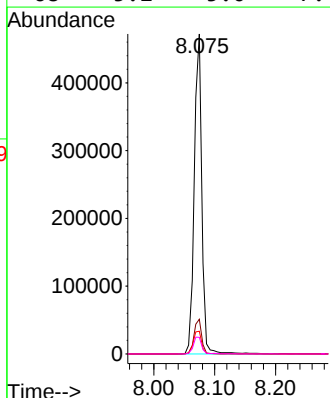
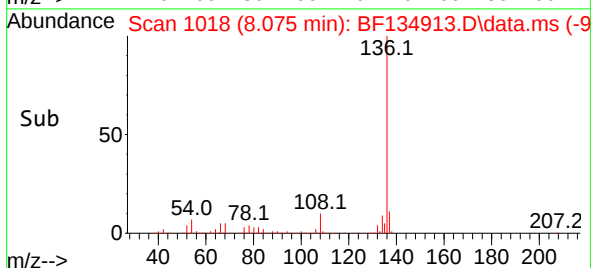
Reviewed By :Yogesh Patel 08/24/2023
Supervised By :mohammad ahmed 08/24/2023

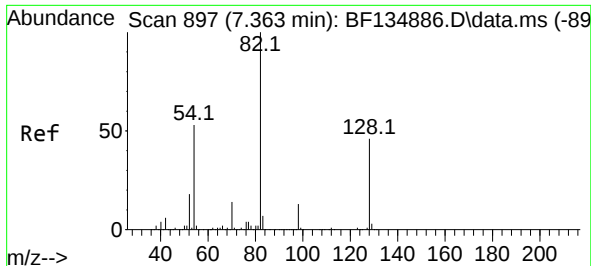


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1018
Delta R.T. 0.000 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50



Tgt Ion:136 Resp: 407348
Ion Ratio Lower Upper
136 100
137 10.8 8.9 13.3
54 7.1 6.6 9.8
68 5.2 5.0 7.4





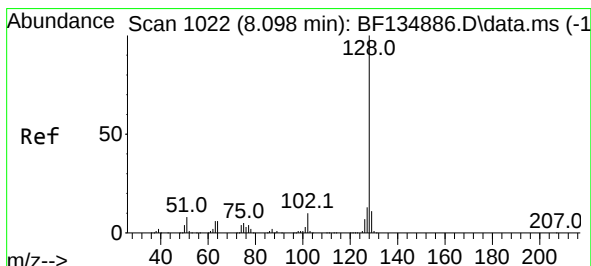
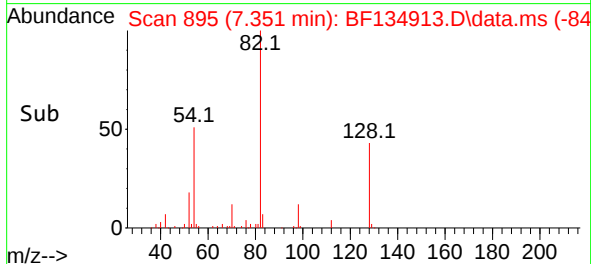
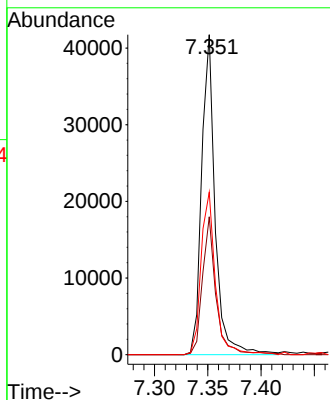
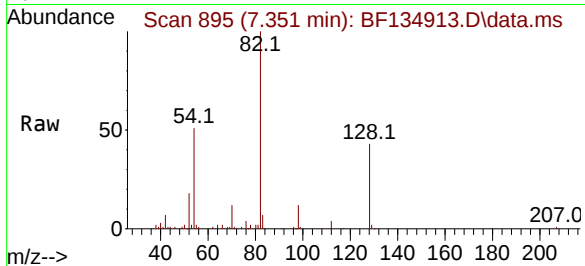
#23
Nitrobenzene-d5
Concen: 4.987 ng
RT: 7.351 min Scan# 895
Delta R.T. -0.012 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

Instrument :
BNA_F
ClientSampleId :
277

Tgt Ion: 82 Resp: 36864
Ion Ratio Lower Upper
82 100
128 43.1 36.6 54.8
54 50.8 42.6 63.8

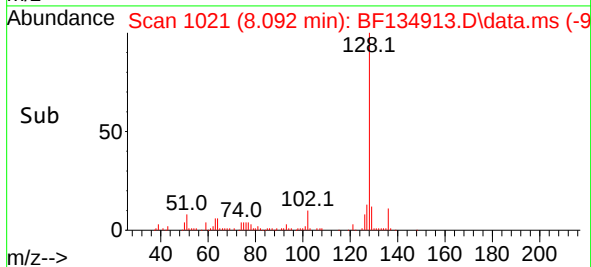
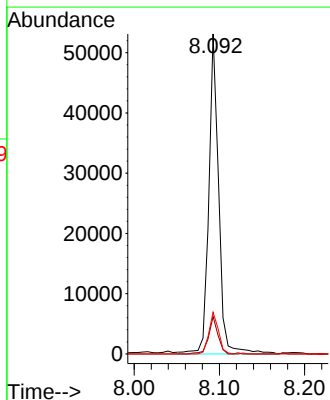
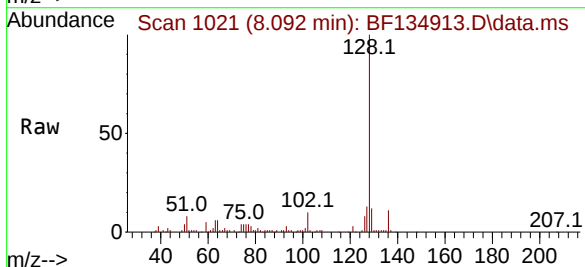
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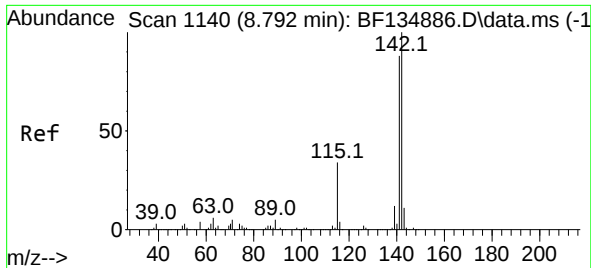
Reviewed By :Yogesh Patel 08/24/2023
Supervised By :mohammad ahmed 08/24/2023



#31
Naphthalene
Concen: 2.106 ng
RT: 8.092 min Scan# 1021
Delta R.T. -0.006 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

Tgt Ion:128 Resp: 42844
Ion Ratio Lower Upper
128 100
129 11.7 9.0 13.4
127 13.0 10.6 16.0





#37

2-Methylnaphthalene

Concen: 2.738 ng

RT: 8.787 min Scan# 1139

Delta R.T. -0.006 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

Instrument :

BNA_F

ClientSampleId :

277

Tgt Ion:142 Resp: 3714

Ion Ratio Lower Upper

142 100

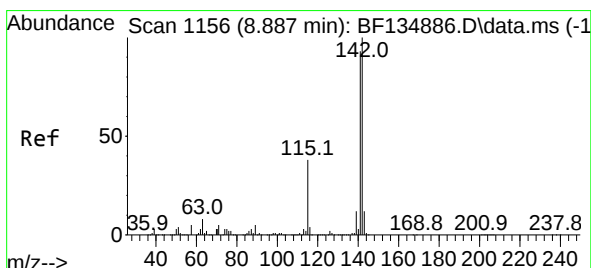
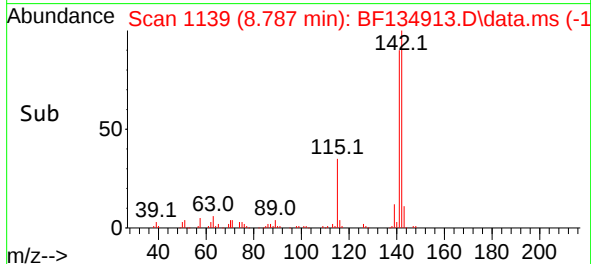
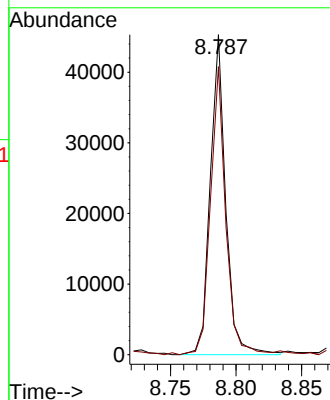
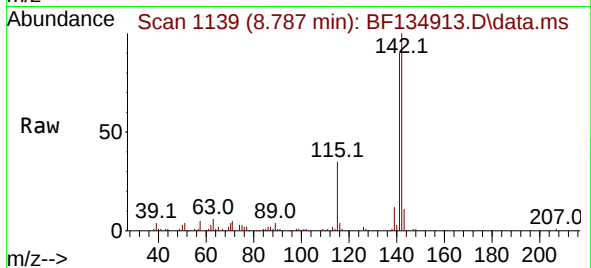
141 90.0 70.2 105.2

Manual Integrations

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Reviewed By :Yogesh Patel 08/24/2023

Supervised By :mohammad ahmed 08/24/2023



#38

1-Methylnaphthalene

Concen: 2.726 ng

RT: 8.887 min Scan# 1156

Delta R.T. 0.000 min

Lab File: BF134913.D

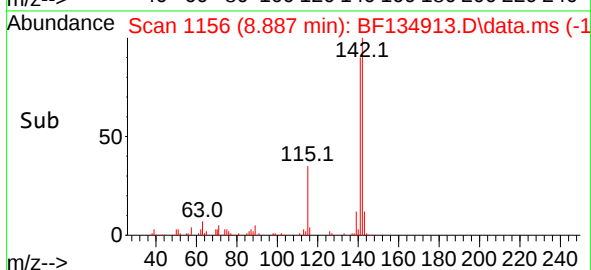
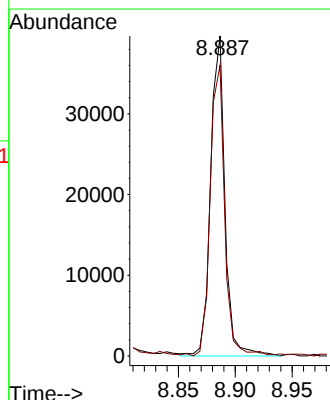
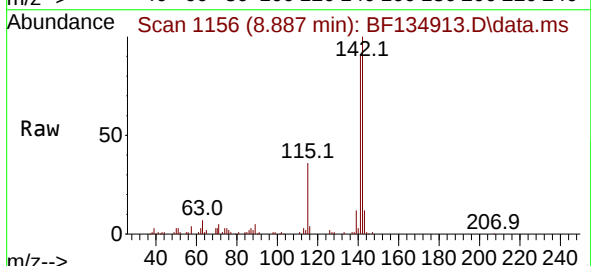
Acq: 23 Aug 2023 19:50

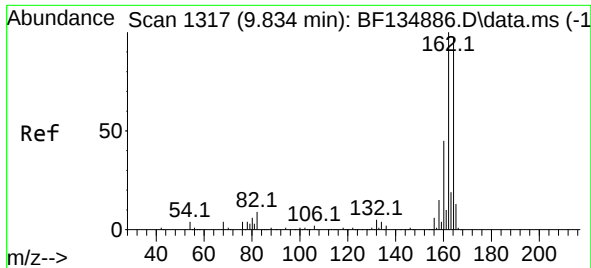
Tgt Ion:142 Resp: 34575

Ion Ratio Lower Upper

142 100

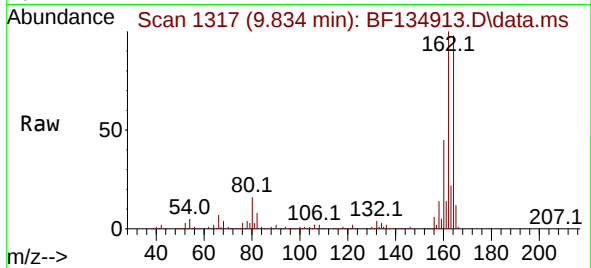
141 90.9 74.1 111.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.834 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

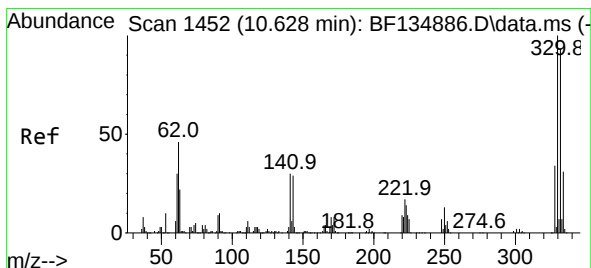
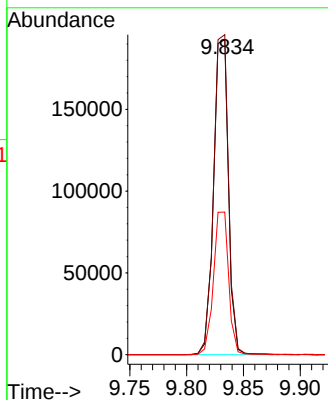
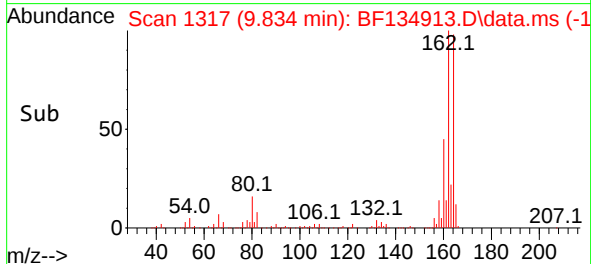
Instrument :
BNA_F
ClientSampleId :
277



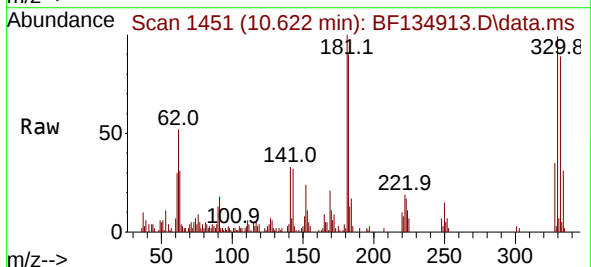
Tgt Ion:164 Resp: 17480
Ion Ratio Lower Upper
164 100
162 101.6 82.6 123.8
160 45.3 37.0 55.4

Manual Integrations
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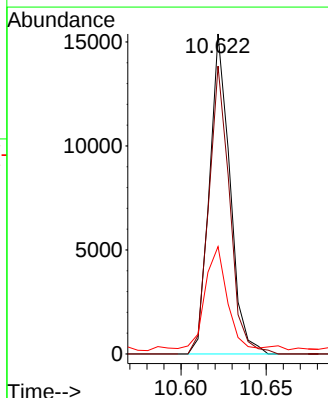
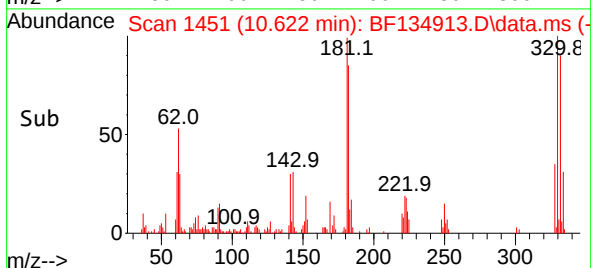
Reviewed By :Yogesh Patel 08/24/2023
Supervised By :mohammad ahmed 08/24/2023

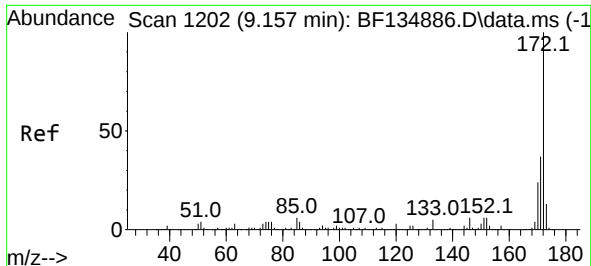


#42
2,4,6-Tribromophenol
Concen: 6.251 ng
RT: 10.622 min Scan# 1451
Delta R.T. -0.006 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50



Tgt Ion:330 Resp: 12870
Ion Ratio Lower Upper
330 100
332 90.8 76.3 114.5
141 36.6 23.4 35.2#





#45

2-Fluorobiphenyl

Concen: 6.912 ng

RT: 9.151 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

Instrument :

BNA_F

ClientSampleId :

277

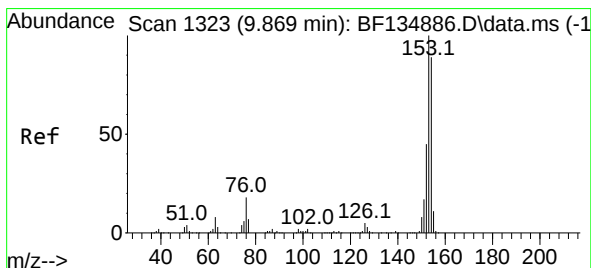
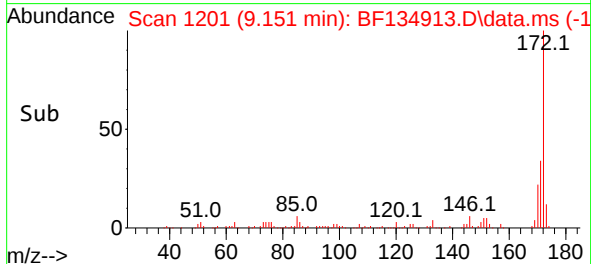
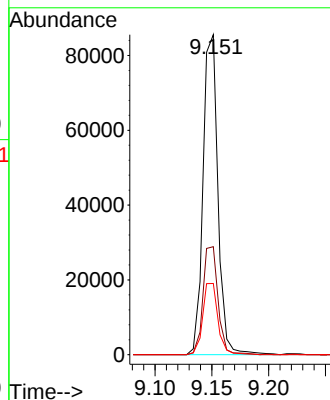
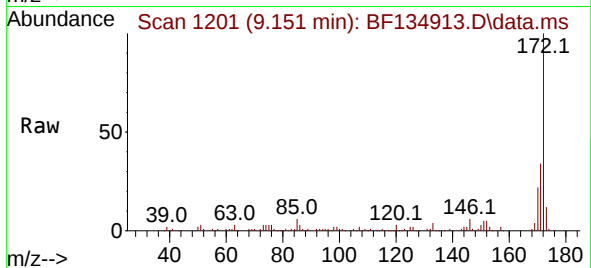
Tgt Ion:172	Resp: 7815
Ion Ratio	Lower Upper
172 100	
171 33.7	29.4 44.0
170 22.3	19.6 29.4

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Supervised By :mohammad ahmed 08/24/2023



#52

Acenaphthene

Concen: 2.924 ng

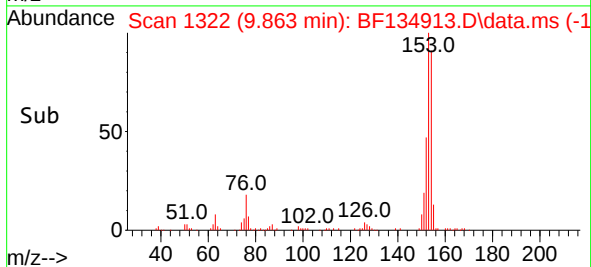
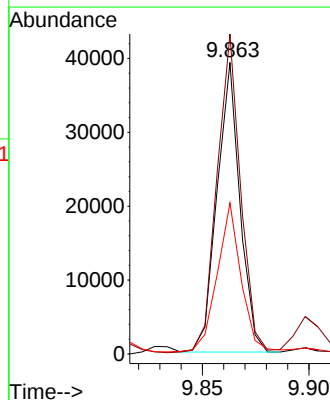
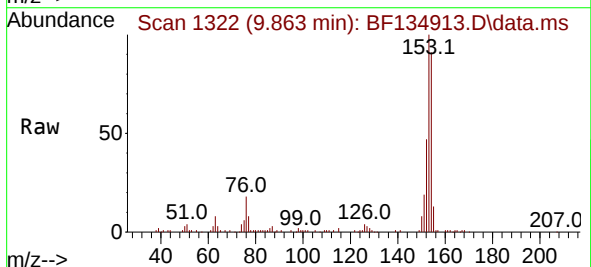
RT: 9.863 min Scan# 1322

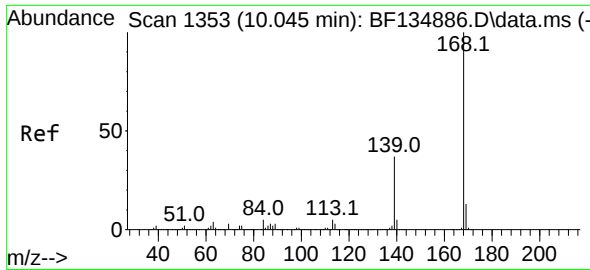
Delta R.T. -0.006 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

Tgt Ion:154	Resp: 29240
Ion Ratio	Lower Upper
154 100	
153 109.8	89.6 134.4
152 51.8	40.5 60.7





#55

Dibenzenofuran

Concen: 2.784 ng

RT: 10.034 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

Instrument :

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ClientSampleId :

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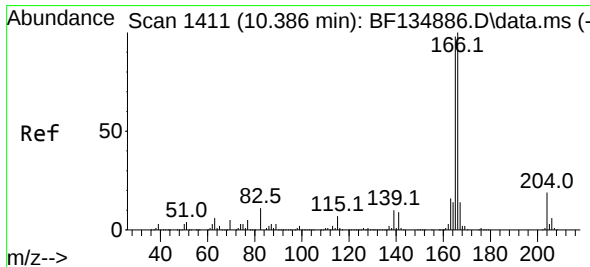
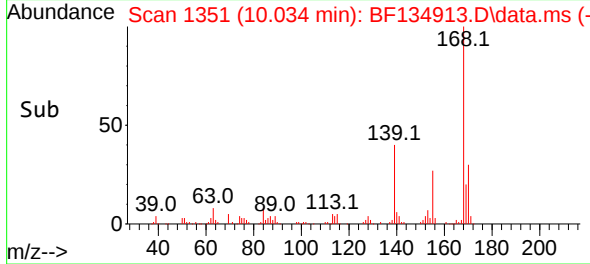
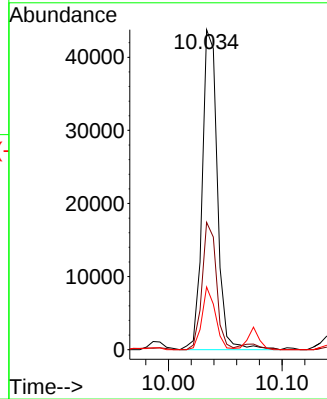
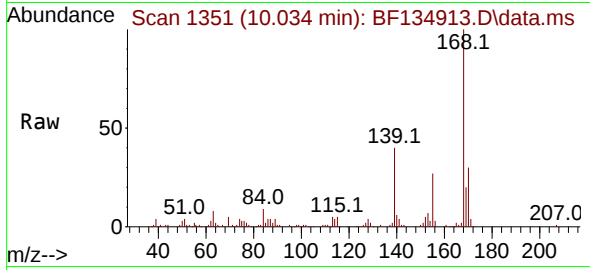
Tgt Ion:168	Resp:	4053
Ion Ratio	Lower	Upper
168	100	
139	39.8	29.5 44.3
169	19.6	10.7 16.1

Manual Integrations

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Reviewed By :Yogesh Patel 08/24/2023

Supervised By :mohammad ahmed 08/24/2023



#58

Fluorene

Concen: 3.614 ng

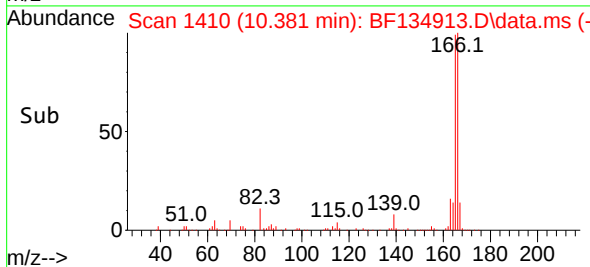
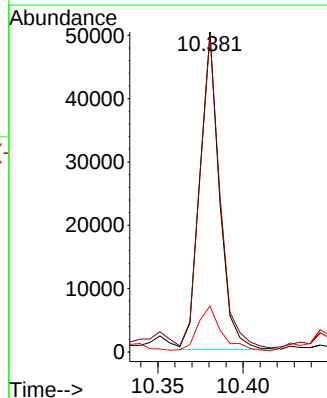
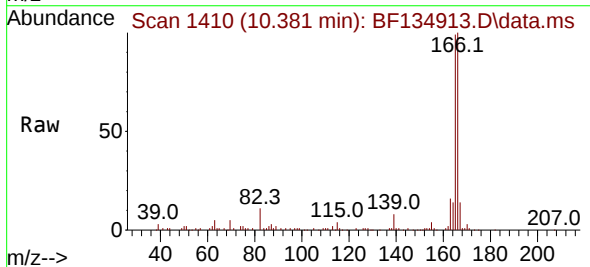
RT: 10.381 min Scan# 1410

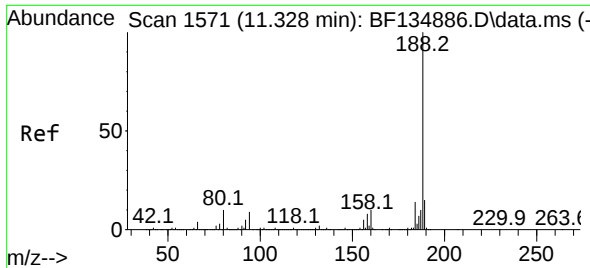
Delta R.T. -0.005 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

Tgt Ion:166	Resp:	39897
Ion Ratio	Lower	Upper
166	100	
165	99.2	78.5 117.7
167	14.3	11.0 16.6





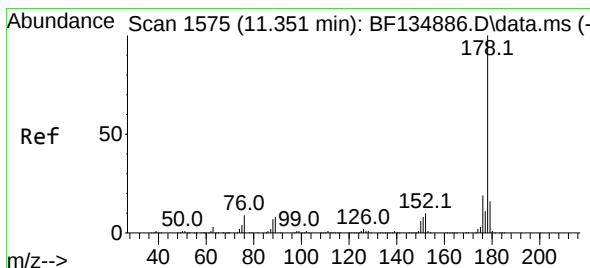
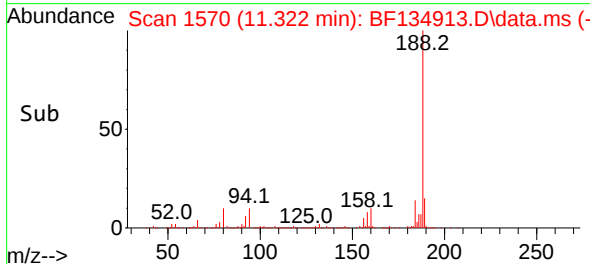
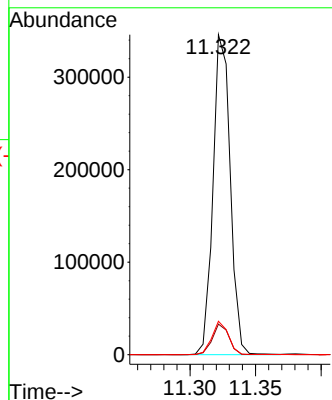
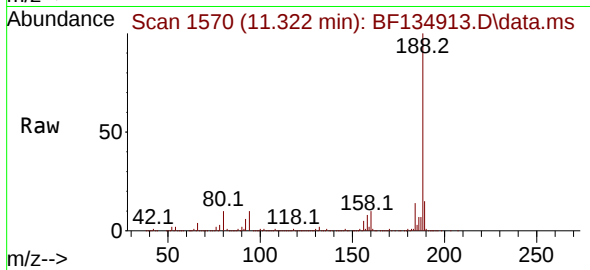
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

Instrument :
BNA_F
ClientSampleId :
277

Tgt Ion:188 Resp: 31588
Ion Ratio Lower Upper
188 100
94 9.5 7.5 11.3
80 10.4 7.8 11.6

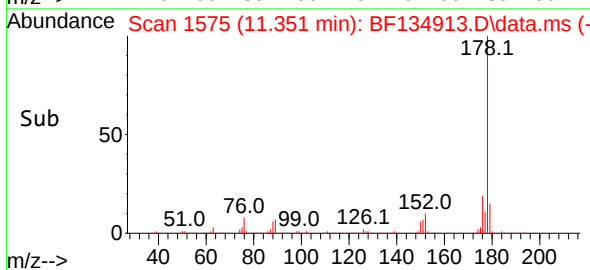
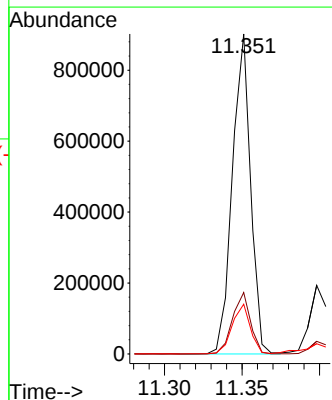
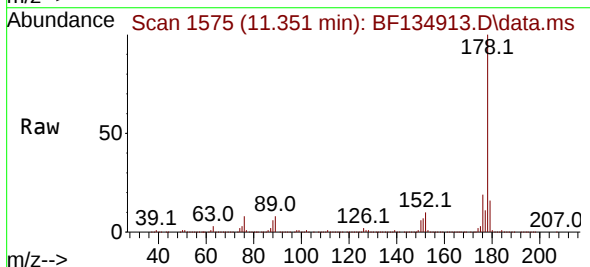
Manual Integrations
APPROVED

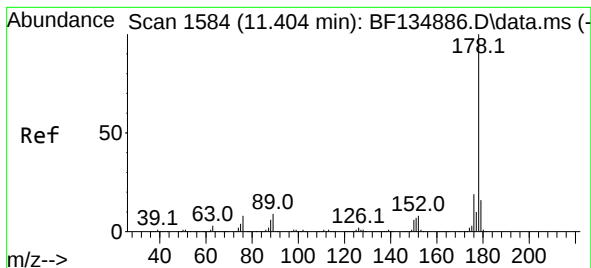
Reviewed By :Yogesh Patel 08/24/2023
Supervised By :mohammad ahmed 08/24/2023



#71
Phenanthrene
Concen: 44.472 ng
RT: 11.351 min Scan# 1575
Delta R.T. 0.000 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

Tgt Ion:178 Resp: 736149
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 15.5 12.6 19.0





#72

Anthracene

Concen: 8.867 ng

RT: 11.398 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

Instrument :

BNA_F

ClientSampleId :

277

Tgt Ion:178 Resp: 150378

Ion Ratio Lower Upper

178 100

176 18.3 15.0 22.6

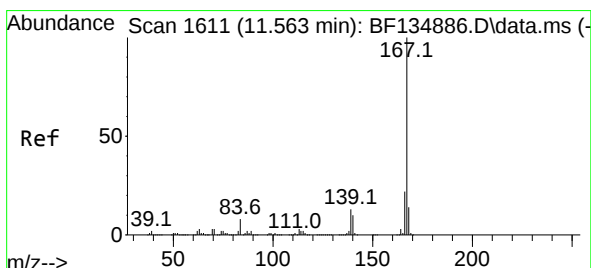
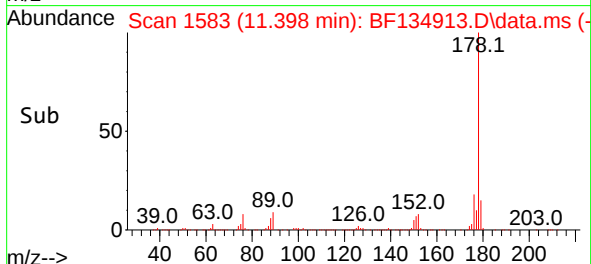
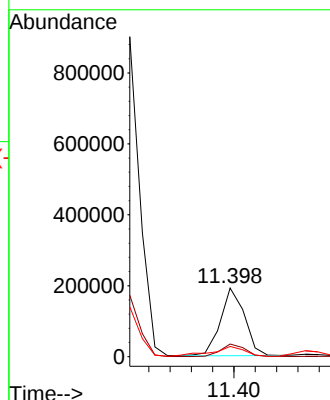
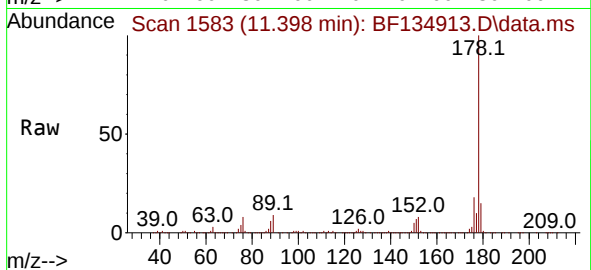
179 15.0 12.5 18.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/24/2023

Supervised By :mohammad ahmed 08/24/2023



#73

Carbazole

Concen: 4.052 ng

RT: 11.557 min Scan# 1610

Delta R.T. -0.006 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

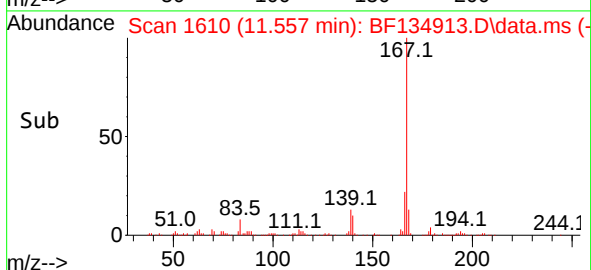
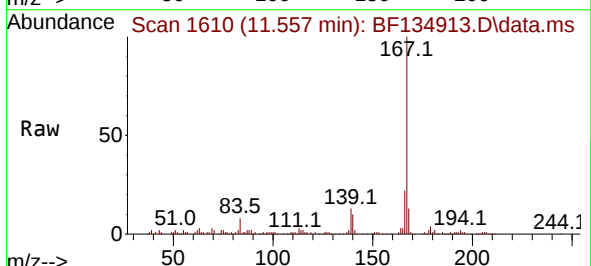
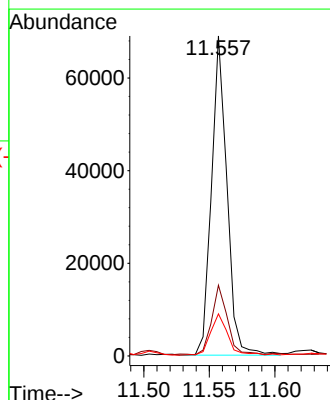
Tgt Ion:167 Resp: 56626

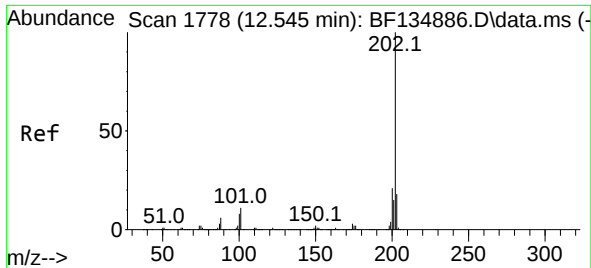
Ion Ratio Lower Upper

167 100

166 22.1 17.4 26.2

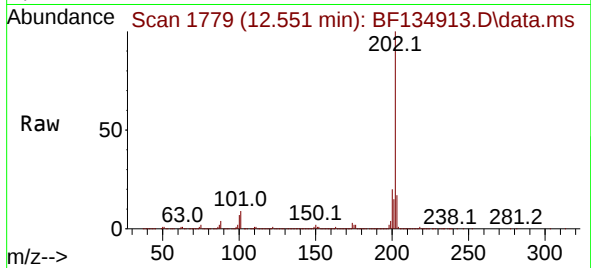
139 13.2 10.4 15.6





#75
Fluoranthene
Concen: 62.647 ng
RT: 12.551 min Scan# 1778
Delta R.T. 0.006 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

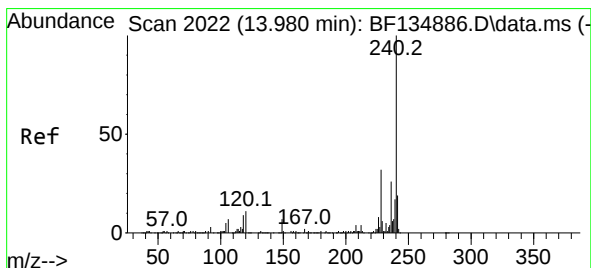
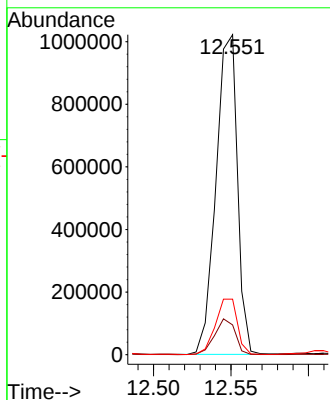
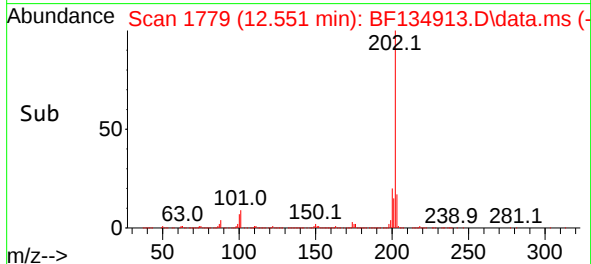
Instrument :
BNA_F
ClientSampleId :
277



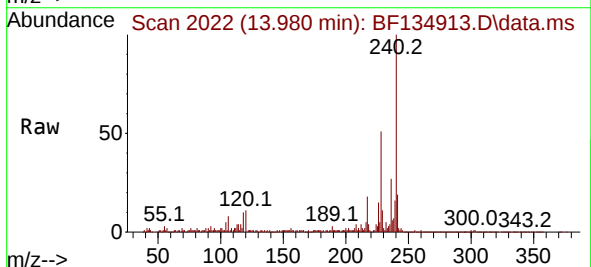
Tgt Ion:202 Resp: 98256
Ion Ratio Lower Upper
202 100
101 9.3 0.0 30.5
203 17.3 0.0 37.8

Manual Integrations
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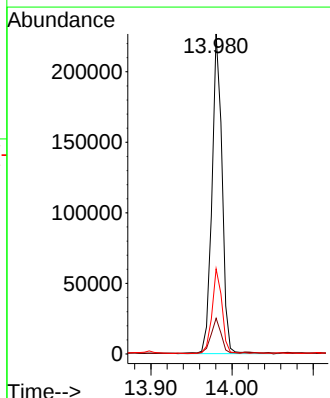
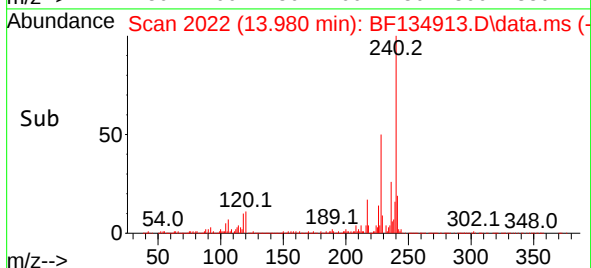
Reviewed By :Yogesh Patel 08/24/2023
Supervised By :mohammad ahmed 08/24/2023

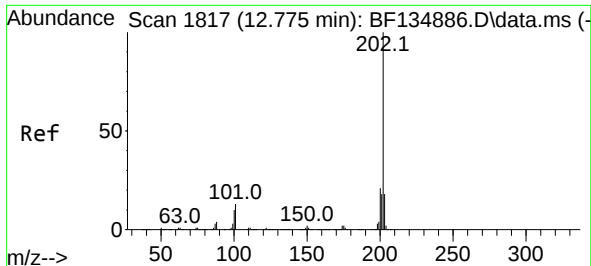


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.980 min Scan# 2022
Delta R.T. 0.000 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50



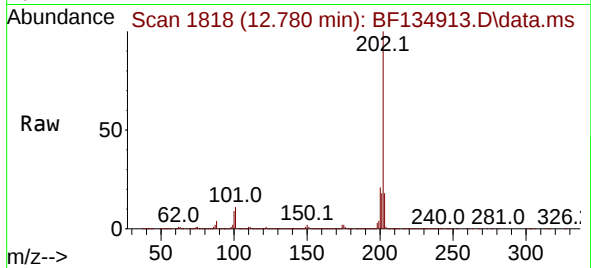
Tgt Ion:240 Resp: 195459
Ion Ratio Lower Upper
240 100
120 11.2 8.6 12.8
236 26.6 20.6 31.0





#78
Pyrene
Concen: 44.565 ng
RT: 12.780 min Scan# 1817
Delta R.T. 0.006 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

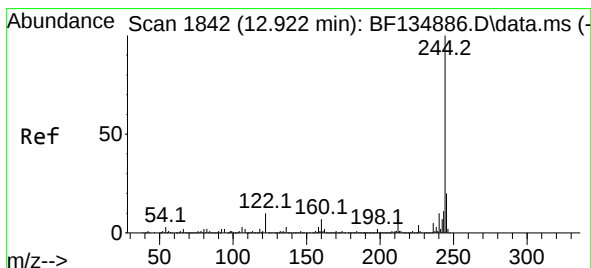
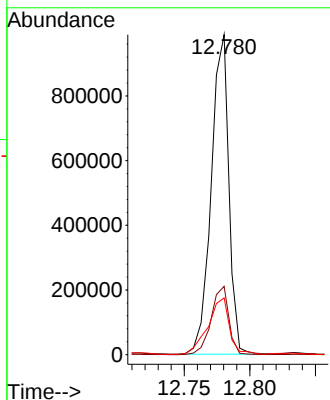
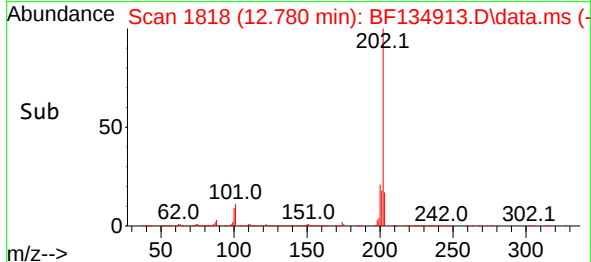
Instrument :
BNA_F
ClientSampleId :
277



Tgt Ion:202 Resp: 923549
Ion Ratio Lower Upper
202 100
200 21.3 17.1 25.7
203 17.8 14.2 21.2

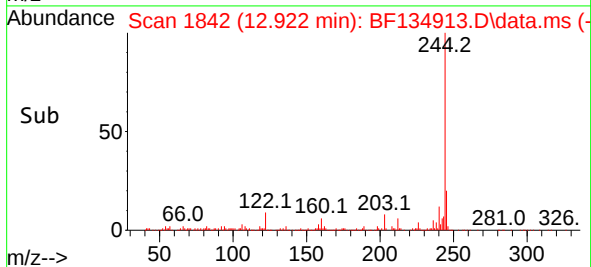
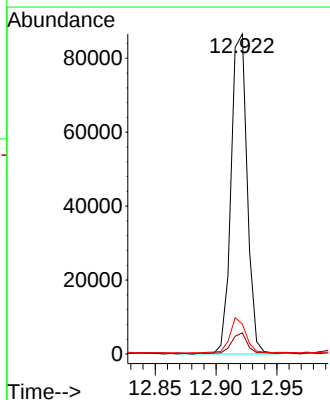
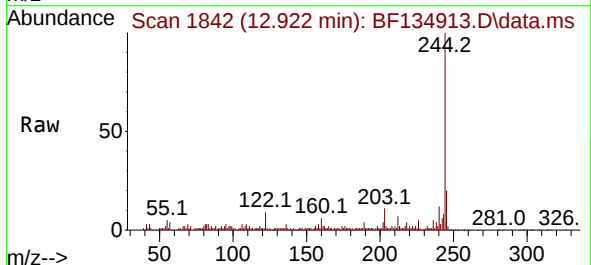
Manual Integrations
APPROVED

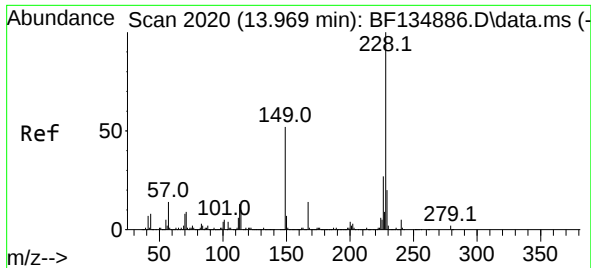
Reviewed By :Yogesh Patel 08/24/2023
Supervised By :mohammad ahmed 08/24/2023



#79
Terphenyl-d14
Concen: 5.620 ng
RT: 12.922 min Scan# 1842
Delta R.T. -0.000 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

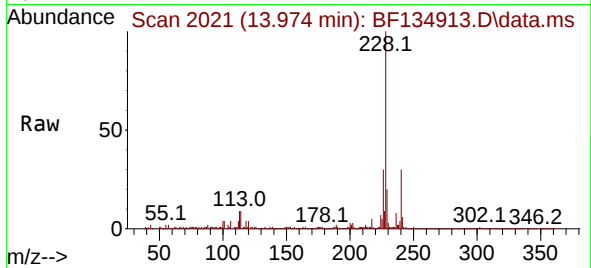
Tgt Ion:244 Resp: 79872
Ion Ratio Lower Upper
244 100
212 6.6 5.4 8.0
122 9.4 8.2 12.4





#81
Benzo(a)anthracene
Concen: 25.370 ng
RT: 13.974 min Scan# 2077
Delta R.T. 0.006 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

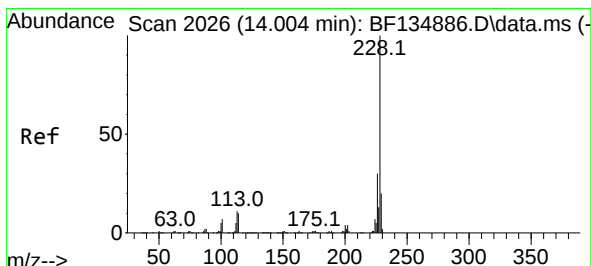
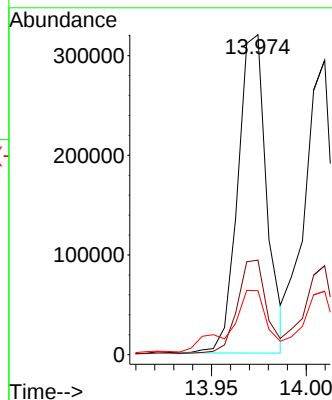
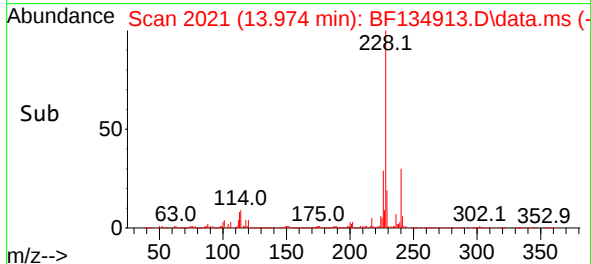
Instrument :
BNA_F
ClientSampleId :
277



Tgt Ion:228 Resp: 338329
Ion Ratio Lower Upper
228 100
226 29.6 21.8 32.6
229 20.0 15.6 23.4

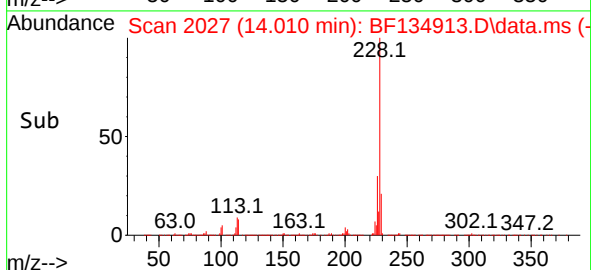
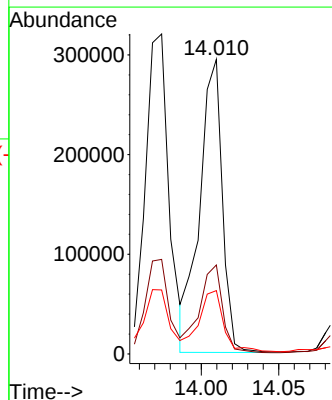
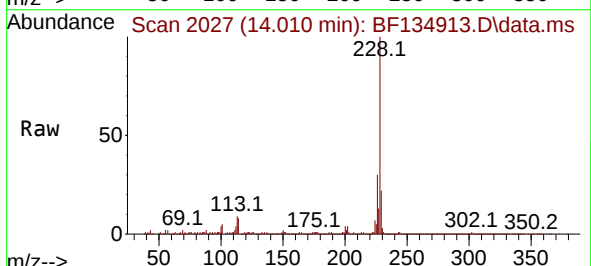
Manual Integrations
APPROVED

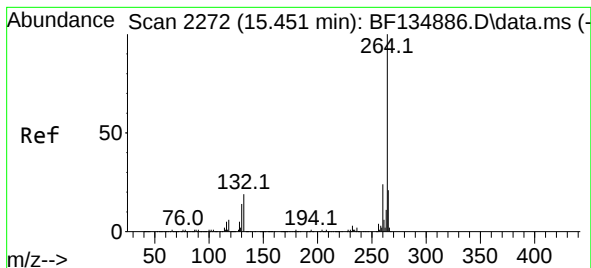
Reviewed By :Yogesh Patel 08/24/2023
Supervised By :mohammad ahmed 08/24/2023



#83
Chrysene
Concen: 22.803 ng
RT: 14.010 min Scan# 2027
Delta R.T. 0.006 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

Tgt Ion:228 Resp: 300041
Ion Ratio Lower Upper
228 100
226 30.2 24.2 36.2
229 21.5 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.457 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

Instrument :

BNA_F

ClientSampleId :

277

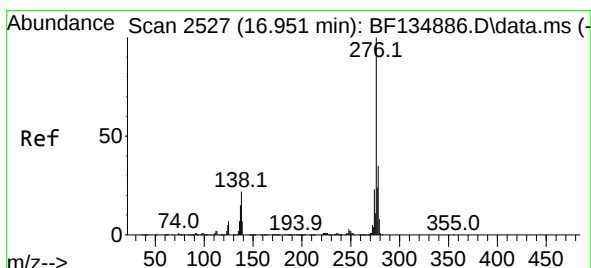
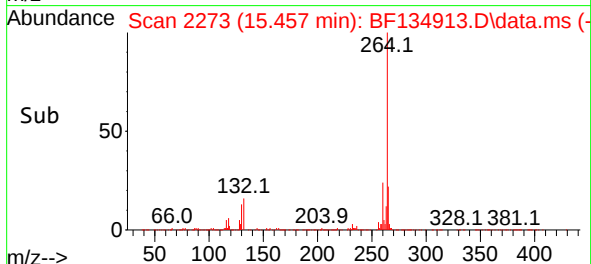
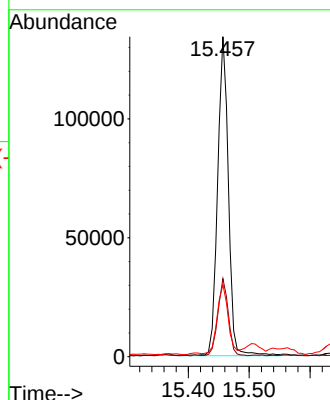
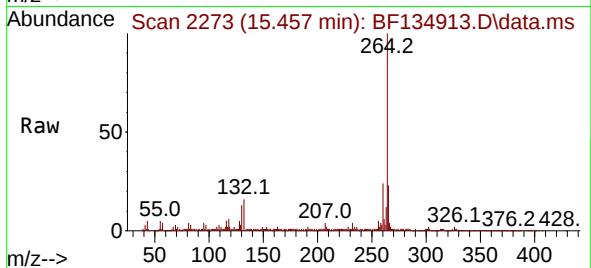
Tgt Ion:	264	Resp:	16426
Ion Ratio	Lower	Upper	
264	100		
260	24.4	19.0	28.6
265	22.5	17.1	25.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/24/2023

Supervised By :mohammad ahmed 08/24/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 9.313 ng

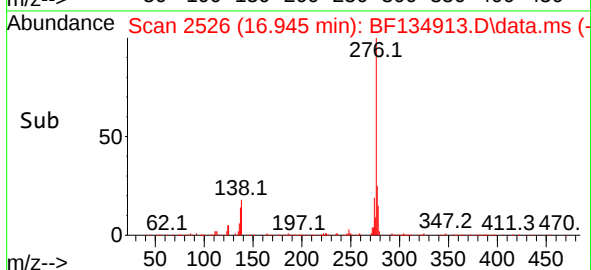
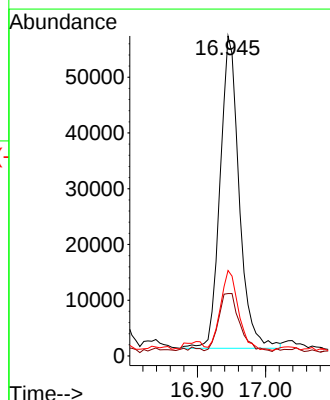
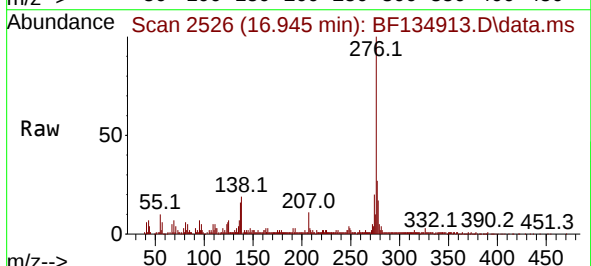
RT: 16.945 min Scan# 2526

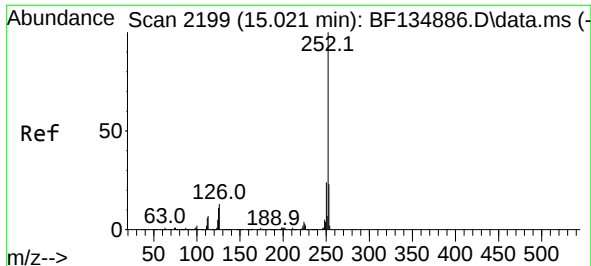
Delta R.T. -0.006 min

Lab File: BF134913.D

Acq: 23 Aug 2023 19:50

Tgt Ion:	276	Resp:	109349
Ion Ratio	Lower	Upper	
276	100		
138	21.0	19.7	29.5
277	24.0	20.1	30.1





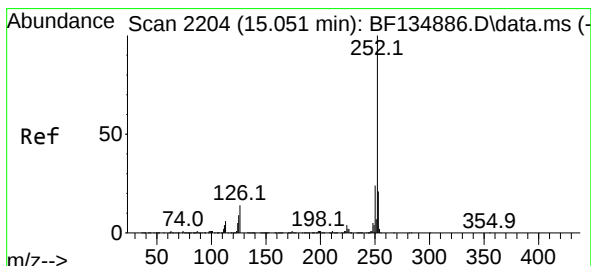
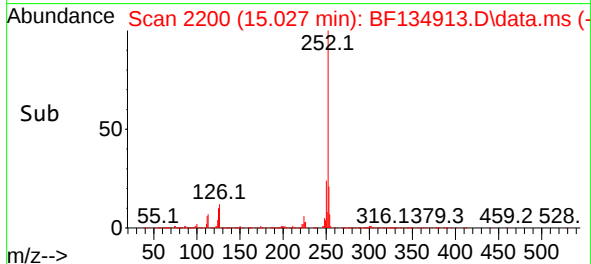
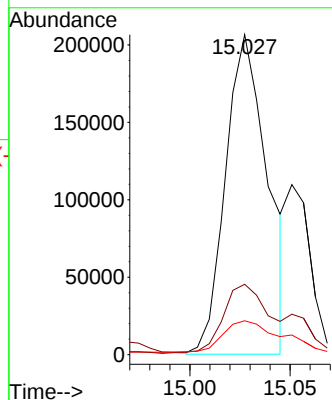
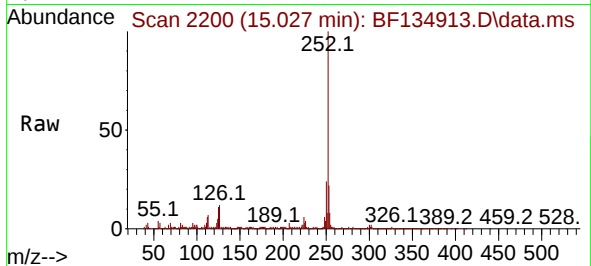
#88
Benzo(b)fluoranthene
Concen: 32.394 ng m
RT: 15.027 min Scan# 2199
Delta R.T. 0.006 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

Instrument :
BNA_F
ClientSampleId :
277

Tgt Ion:252 Resp: 30022
Ion Ratio Lower Upper
252 100
253 22.0 18.1 27.1
125 10.6 8.4 12.6

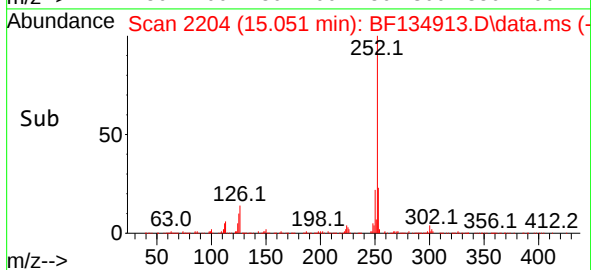
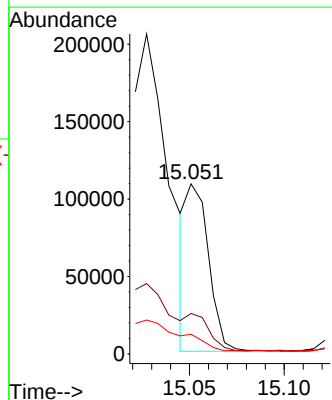
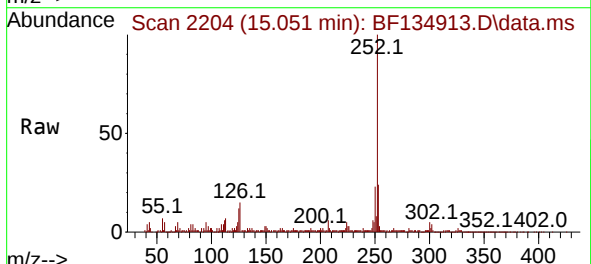
Manual Integrations
APPROVED

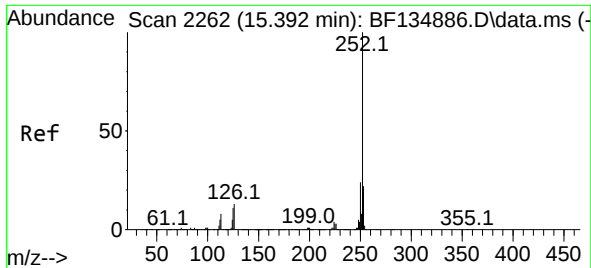
Reviewed By :Yogesh Patel 08/24/2023
Supervised By :mohammad ahmed 08/24/2023



#89
Benzo(k)fluoranthene
Concen: 9.656 ng m
RT: 15.051 min Scan# 2204
Delta R.T. 0.000 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

Tgt Ion:252 Resp: 87881
Ion Ratio Lower Upper
252 100
253 23.8 17.1 25.7
125 11.5 8.0 12.0





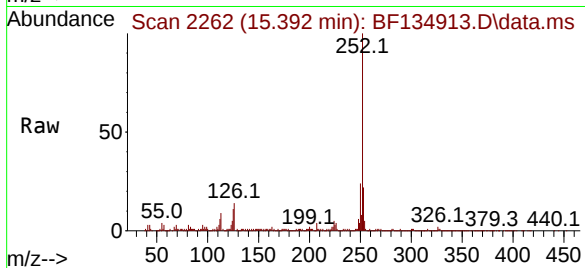
#90
Benzo(a)pyrene
Concen: 22.906 ng
RT: 15.392 min Scan# 211928
Delta R.T. 0.000 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

Instrument :

BNF

ClientSampleId :

277

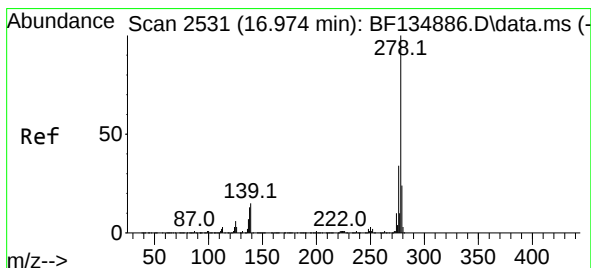
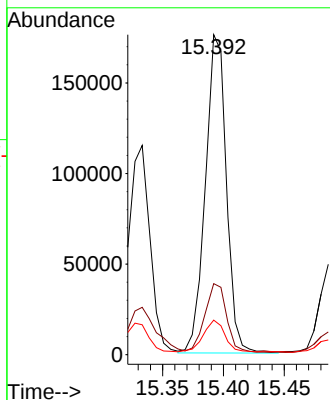
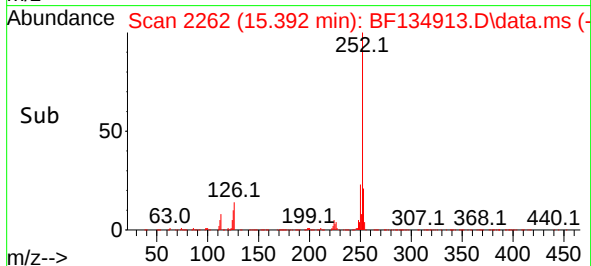


Tgt Ion:252 Resp: 211928
Ion Ratio Lower Upper
252 100
253 22.2 17.6 26.4
125 10.8 8.4 12.6

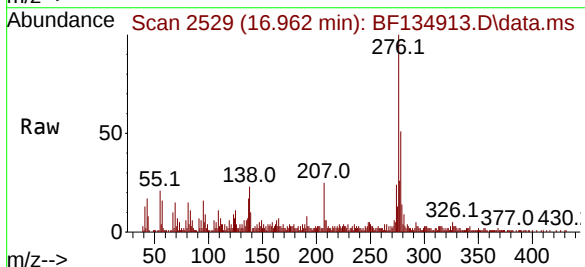
Manual Integrations

APPROVED

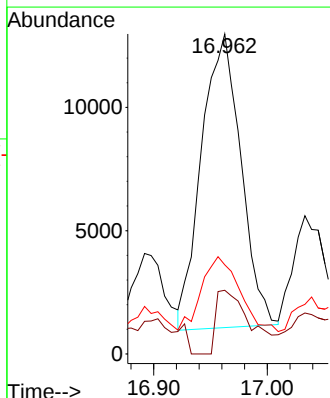
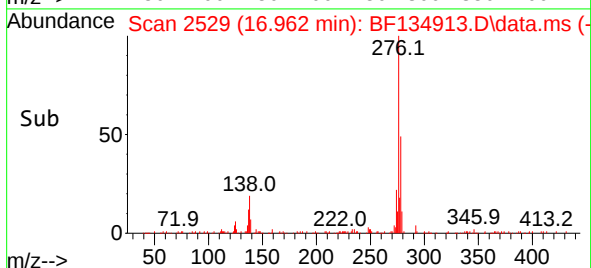
Reviewed By :Yogesh Patel 08/24/2023
Supervised By :mohammad ahmed 08/24/2023

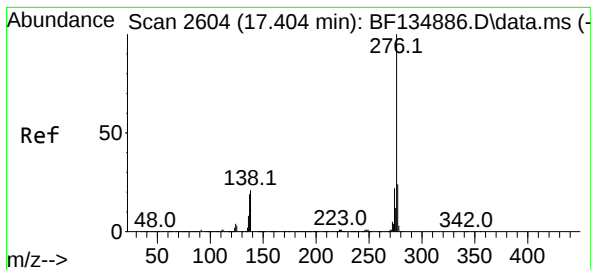


#91
Dibenzo(a,h)anthracene
Concen: 3.027 ng
RT: 16.962 min Scan# 2529
Delta R.T. -0.012 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50



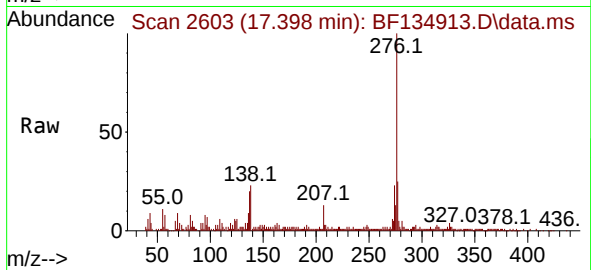
Tgt Ion:278 Resp: 28761
Ion Ratio Lower Upper
278 100
139 19.9 12.2 18.4#
279 27.8 19.1 28.7





#92
Benzo(g,h,i)perylene
Concen: 10.874 ng
RT: 17.398 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF134913.D
Acq: 23 Aug 2023 19:50

Instrument :
BNA_F
ClientSampleId :
277



Tgt Ion: 276 Resp: 105750
Ion Ratio Lower Upper
276 100
277 24.6 19.2 28.8
138 22.9 17.0 25.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/24/2023
Supervised By :mohammad ahmed 08/24/2023

