

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092022\
 Data File : BF130351.D
 Acq On : 20 Sep 2022 18:56
 Operator : CG\JU
 Sample : N4630-01 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-17-4-1

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 09/21/2022
 Supervised By : Jagrut Upadhyay 09/21/2022

Quant Time: Sep 21 05:17:25 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091422.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 19 15:06:14 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.663	152	74016	20.000	ng	0.00
21) Naphthalene-d8	7.945	136	258770	20.000	ng	# 0.00
39) Acenaphthene-d10	9.692	164	135696	20.000	ng	0.00
64) Phenanthrene-d10	11.180	188	241673	20.000	ng	0.00
76) Chrysene-d12	13.868	240	184585m	20.000	ng	0.06
86) Perylene-d12	15.286	264	167269m	20.000	ng	0.10
System Monitoring Compounds						
5) 2-Fluorophenol	5.257	112	155108	36.347	ng	0.00
7) Phenol-d6	6.304	99	170284	31.892	ng	0.00
23) Nitrobenzene-d5	7.222	82	100568	19.855	ng	-0.01
42) 2,4,6-Tribromophenol	10.480	330	50512	38.849	ng	0.00
45) 2-Fluorobiphenyl	9.016	172	190888	20.485	ng	0.00
79) Terphenyl-d14	12.786	244	265447	23.822	ng	0.03
Target Compounds						Qvalue
31) Naphthalene	7.963	128	64019	4.802	ng	100
37) 2-Methylnaphthalene	8.657	142	108206	12.730	ng	98
38) 1-Methylnaphthalene	8.751	142	34368	4.209	ng	97
58) Fluorene	10.239	166	36073	3.927	ng	# 92
71) Phenanthrene	11.210	178	745301	54.929	ng	99
72) Anthracene	11.257	178	110128m	8.411	ng	
75) Fluoranthene	12.410	202	418857	31.946	ng	92
78) Pyrene	12.639	202	1239031	76.732	ng	98
81) Benzo(a)anthracene	13.863	228	2571875m	209.445	ng	
83) Chrysene	13.904	228	3963986m	339.982	ng	
87) Indeno(1,2,3-cd)pyrene	16.662	276	541399m	45.642	ng	
88) Benzo(b)fluoranthene	14.892	252	1265134m	115.880	ng	
89) Benzo(k)fluoranthene	14.904	252	142412m	13.260	ng	
90) Benzo(a)pyrene	15.239	252	1394525	161.229	ng	94
91) Dibenzo(a,h)anthracene	16.662	278	736030m	75.639	ng	
92) Benzo(g,h,i)perylene	17.086	276	963231	98.266	ng	95

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

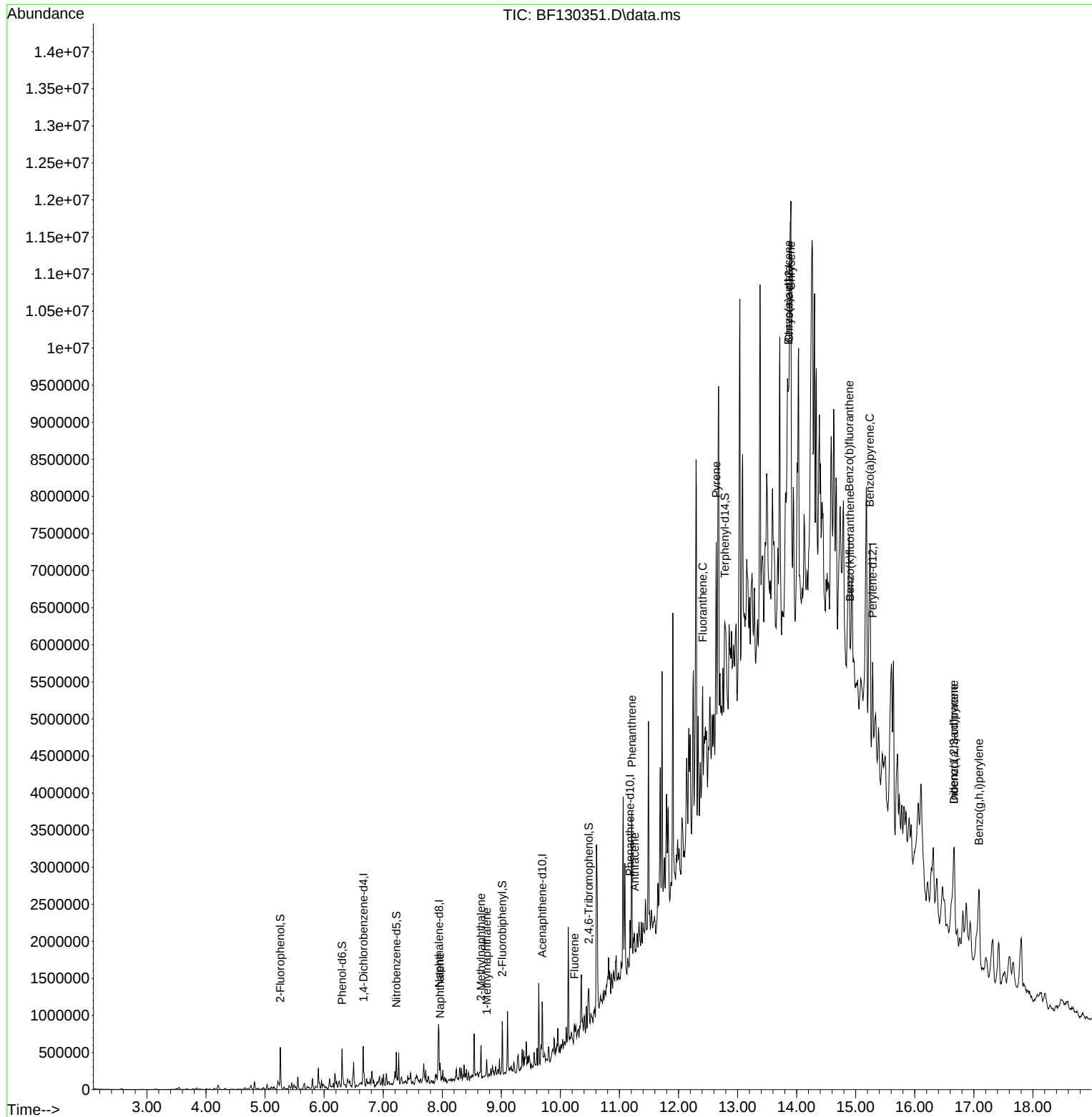
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092022\
Data File : BF130351.D
Acq On : 20 Sep 2022 18:56
Operator : CG\JU
Sample : N4630-01 2X
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-17-4-1

Quant Time: Sep 21 05:17:25 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091422.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Sep 19 15:06:14 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

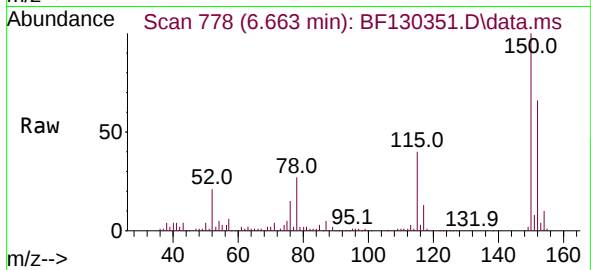
Reviewed By :Christian Giraldo 09/21/2022
Supervised By :Jagrut Upadhyay 09/21/2022





#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.663 min Scan# 71
 Delta R.T. 0.000 min
 Lab File: BF130351.D
 Acq: 20 Sep 2022 18:56

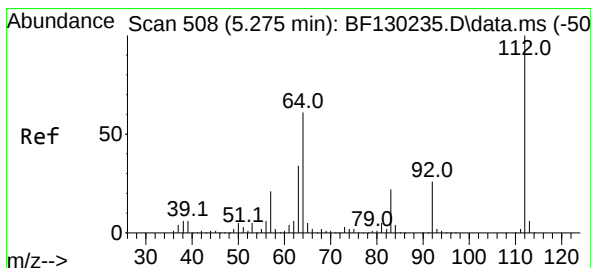
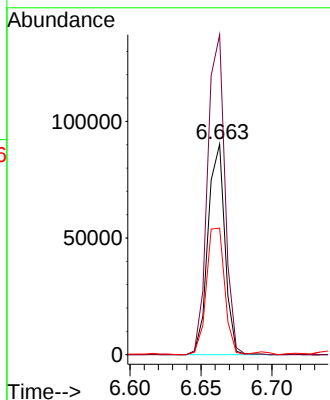
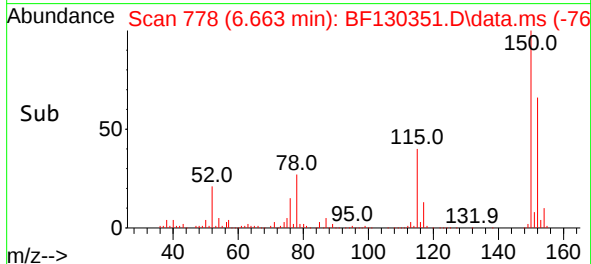
Instrument :
 BNA_F
 ClientSampleId :
 WC-17-4-1



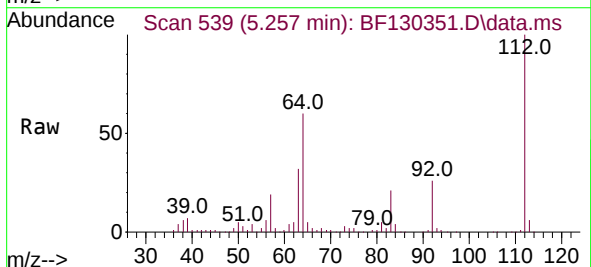
Tgt Ion:152 Resp: 74016
 Ion Ratio Lower Upper
 152 100
 150 152.0 122.8 184.2
 115 60.1 53.8 80.8

Manual Integrations
 APPROVED

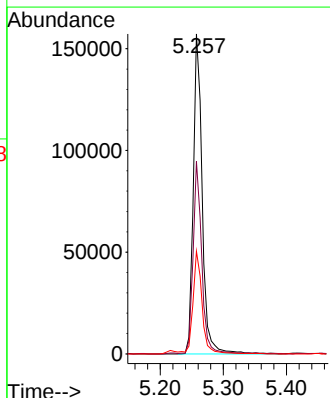
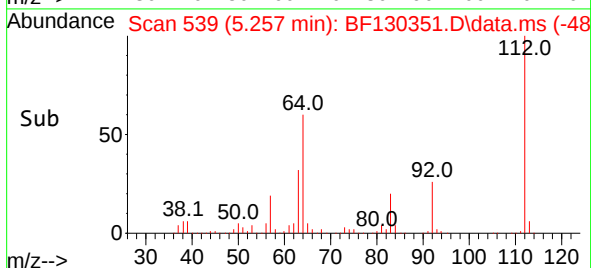
Reviewed By :Christian Giraldo 09/21/2022
 Supervised By :Jagrut Upadhyay 09/21/2022

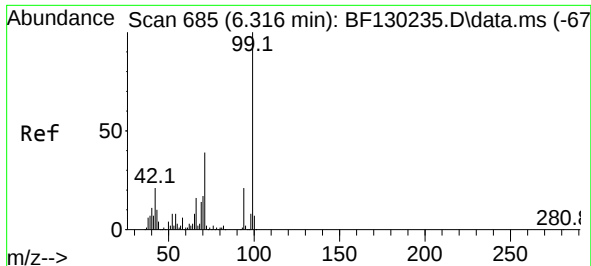


#5
 2-Fluorophenol
 Concen: 36.347 ng
 RT: 5.257 min Scan# 539
 Delta R.T. 0.000 min
 Lab File: BF130351.D
 Acq: 20 Sep 2022 18:56



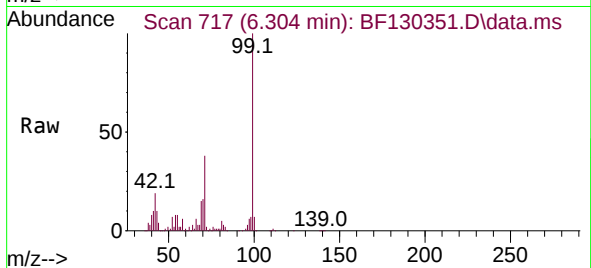
Tgt Ion:112 Resp: 155108
 Ion Ratio Lower Upper
 112 100
 64 60.1 51.4 77.0
 63 32.1 28.8 43.2





#7
Phenol-d6
Concen: 31.892 ng
RT: 6.304 min Scan# 71
Delta R.T. 0.006 min
Lab File: BF130351.D
Acq: 20 Sep 2022 18:56

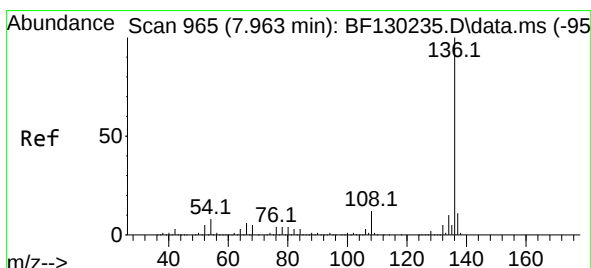
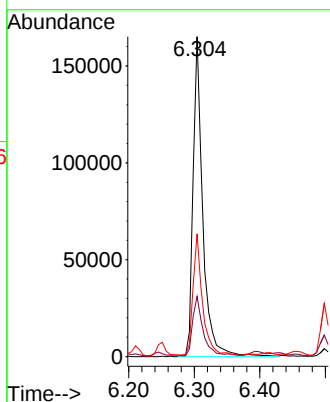
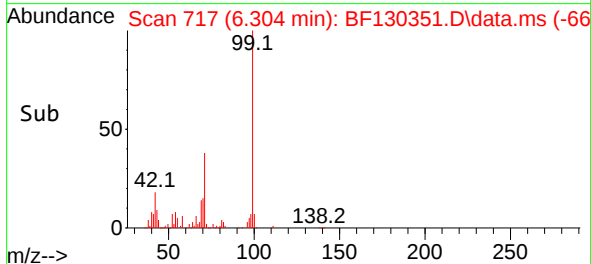
Instrument :
BNA_F
ClientSampleId :
WC-17-4-1



Tgt Ion: 99 Resp: 170284
Ion Ratio Lower Upper
99 100
42 18.8 17.0 25.6
71 38.4 32.3 48.5

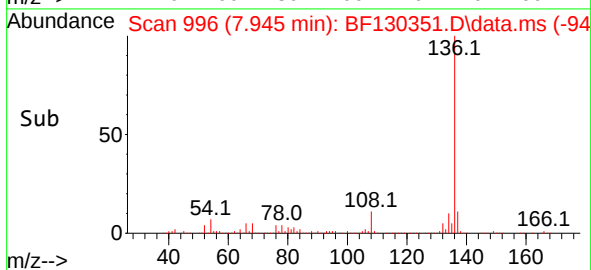
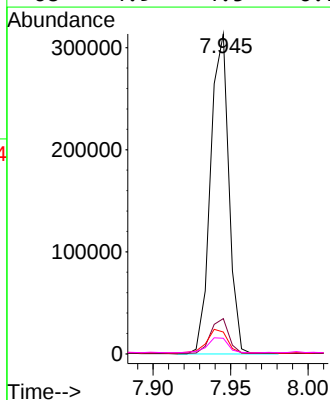
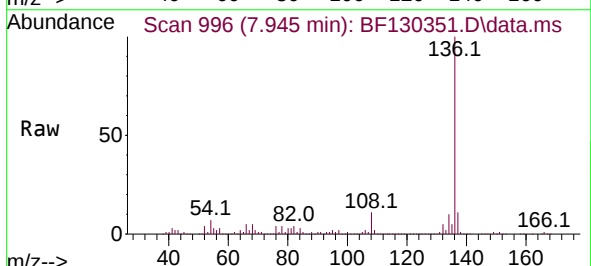
Manual Integrations
APPROVED

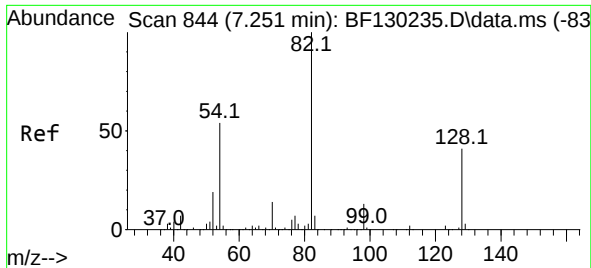
Reviewed By :Christian Giraldo 09/21/2022
Supervised By :Jagrut Upadhyay 09/21/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.945 min Scan# 996
Delta R.T. 0.000 min
Lab File: BF130351.D
Acq: 20 Sep 2022 18:56

Tgt Ion:136 Resp: 258770
Ion Ratio Lower Upper
136 100
137 11.0 9.1 13.7
54 6.8 7.1 10.7#
68 4.9 4.5 6.7





#23

Nitrobenzene-d5

Concen: 19.855 ng

RT: 7.222 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF130351.D

Acq: 20 Sep 2022 18:56

Instrument :

BNA_F

ClientSampleId :

WC-17-4-1

Tgt Ion: 82 Resp: 100568

Ion Ratio Lower Upper

82 100

128 44.1 32.6 49.0

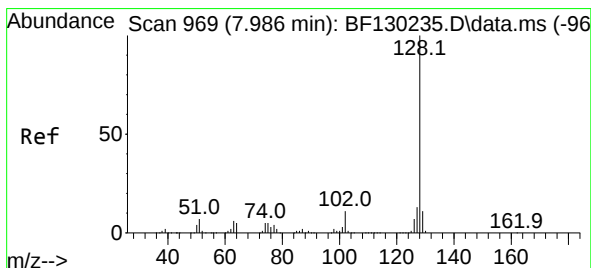
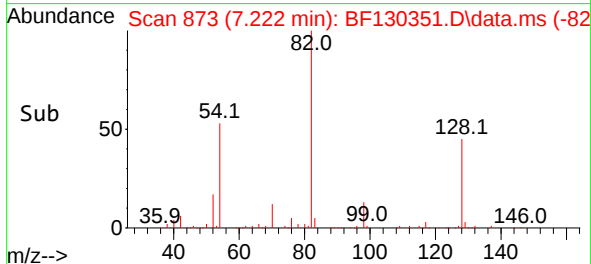
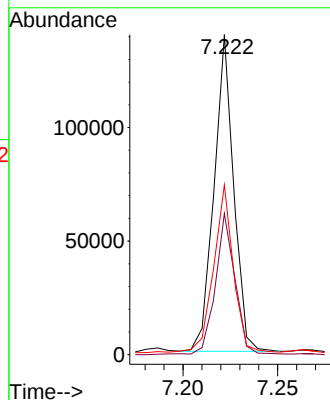
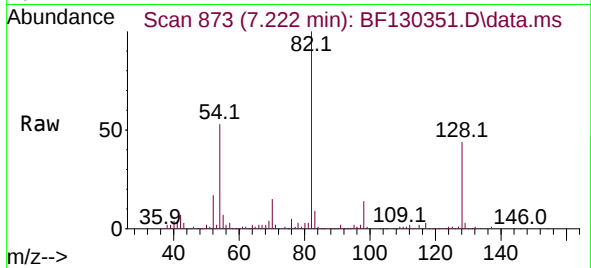
54 53.0 43.8 65.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 09/21/2022

Supervised By :Jagrut Upadhyay 09/21/2022



#31

Naphthalene

Concen: 4.802 ng

RT: 7.963 min Scan# 999

Delta R.T. -0.006 min

Lab File: BF130351.D

Acq: 20 Sep 2022 18:56

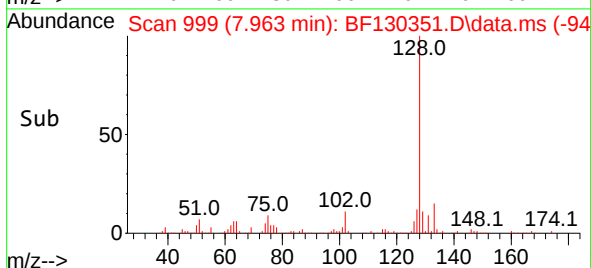
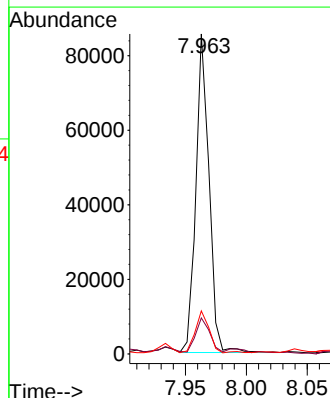
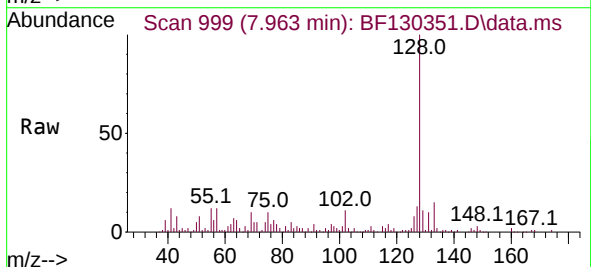
Tgt Ion:128 Resp: 64019

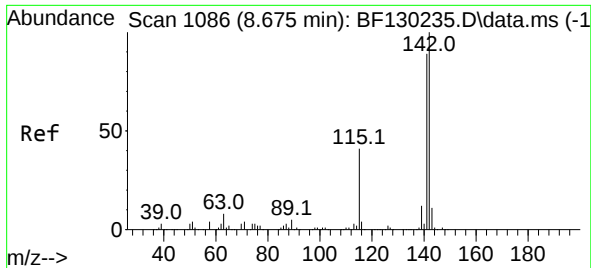
Ion Ratio Lower Upper

128 100

129 11.2 9.1 13.7

127 13.4 10.6 16.0





#37

2-Methylnaphthalene

Concen: 12.730 ng

RT: 8.657 min Scan# 1117

Delta R.T. 0.000 min

Lab File: BF130351.D

Acq: 20 Sep 2022 18:56

Instrument :

BNA_F

ClientSampleId :

WC-17-4-1

Tgt Ion:142 Resp: 108206

Ion Ratio Lower Upper

142 100

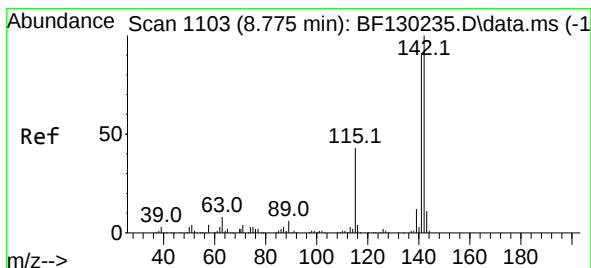
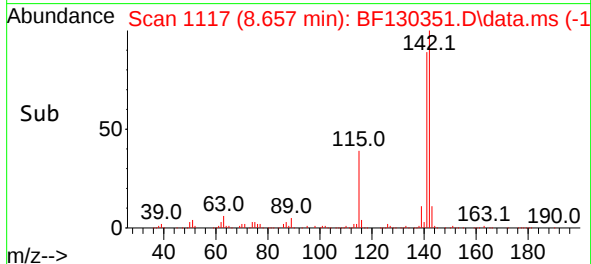
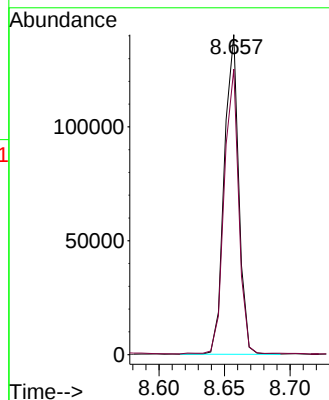
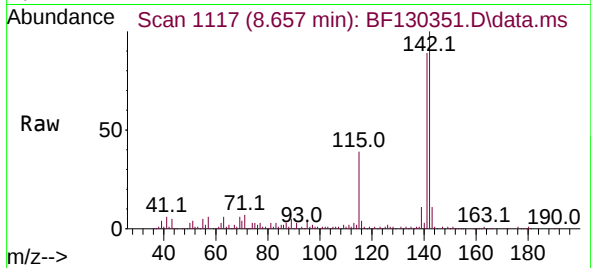
141 89.2 70.0 105.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 09/21/2022

Supervised By :Jagrut Upadhyay 09/21/2022



#38

1-Methylnaphthalene

Concen: 4.209 ng

RT: 8.751 min Scan# 1133

Delta R.T. -0.006 min

Lab File: BF130351.D

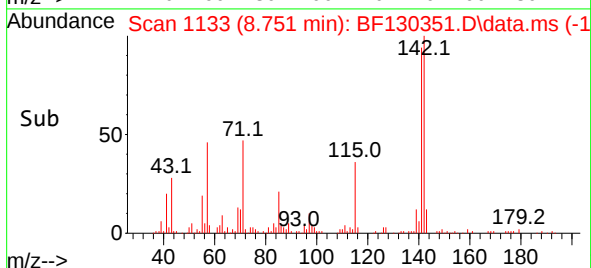
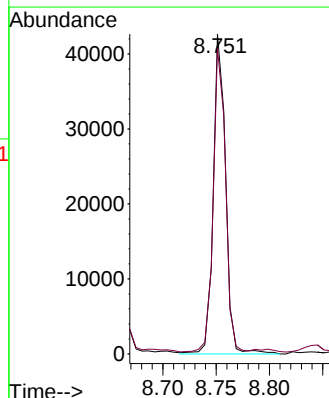
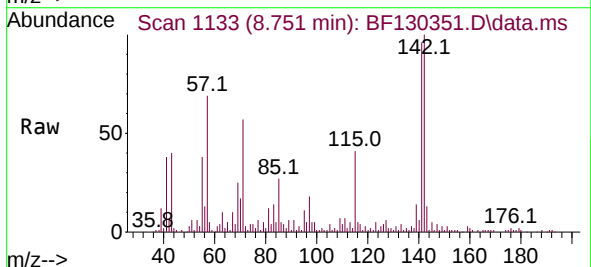
Acq: 20 Sep 2022 18:56

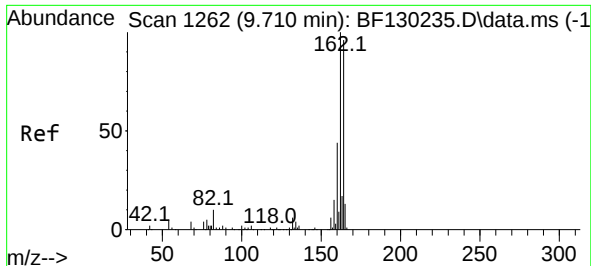
Tgt Ion:142 Resp: 34368

Ion Ratio Lower Upper

142 100

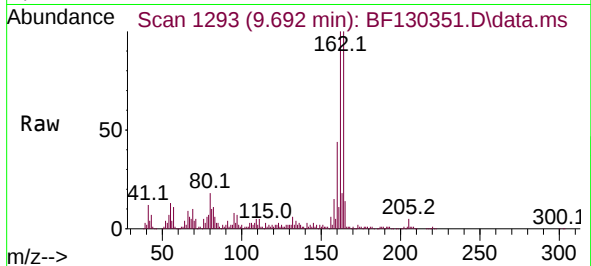
141 95.5 73.8 110.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.692 min Scan# 1293
Delta R.T. 0.000 min
Lab File: BF130351.D
Acq: 20 Sep 2022 18:56

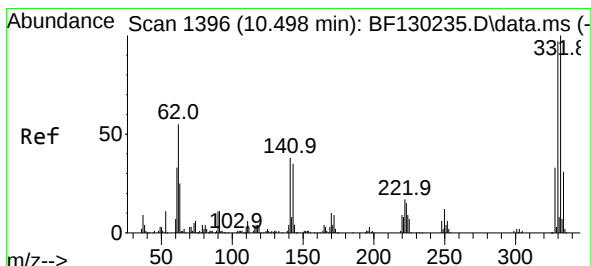
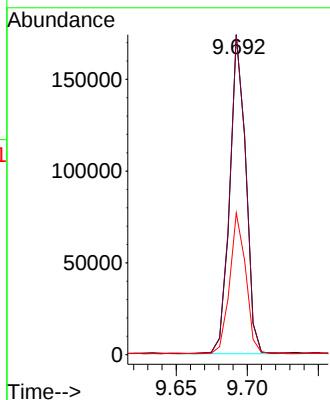
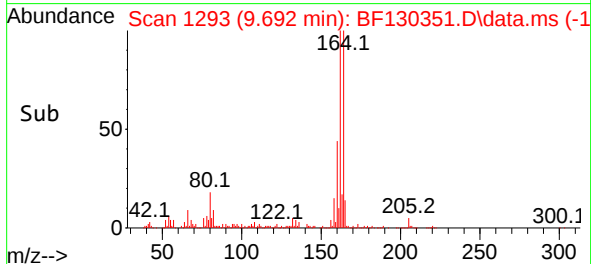
Instrument :
BNA_F
ClientSampleId :
WC-17-4-1



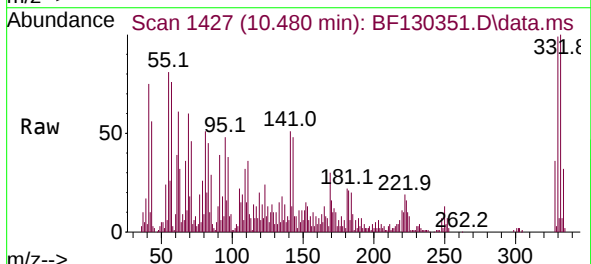
Tgt Ion:164 Resp: 135696
Ion Ratio Lower Upper
164 100
162 99.9 81.4 122.0
160 44.3 36.2 54.4

Manual Integrations
APPROVED

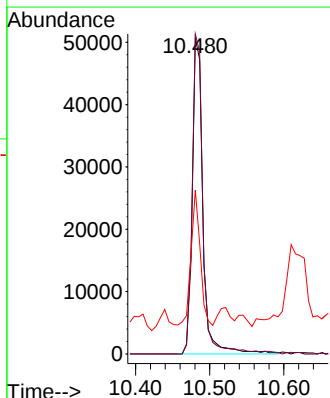
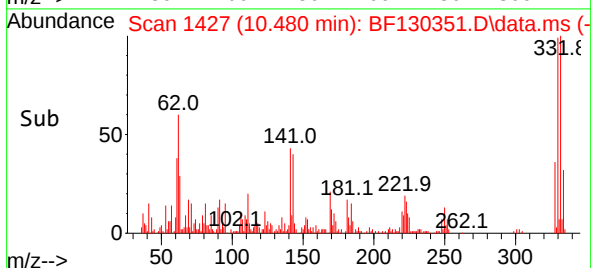
Reviewed By :Christian Giraldo 09/21/2022
Supervised By :Jagrut Upadhyay 09/21/2022

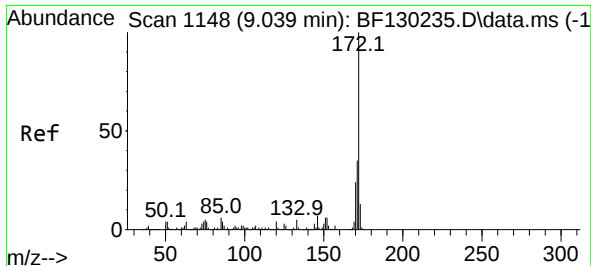


#42
2,4,6-Tribromophenol
Concen: 38.849 ng
RT: 10.480 min Scan# 1427
Delta R.T. 0.000 min
Lab File: BF130351.D
Acq: 20 Sep 2022 18:56



Tgt Ion:330 Resp: 50512
Ion Ratio Lower Upper
330 100
332 101.5 83.4 125.2
141 36.7 34.0 51.0





#45

2-Fluorobiphenyl

Concen: 20.485 ng

RT: 9.016 min Scan# 1148

Delta R.T. -0.006 min

Lab File: BF130351.D

Acq: 20 Sep 2022 18:56

Instrument :

BNA_F

ClientSampleId :

WC-17-4-1

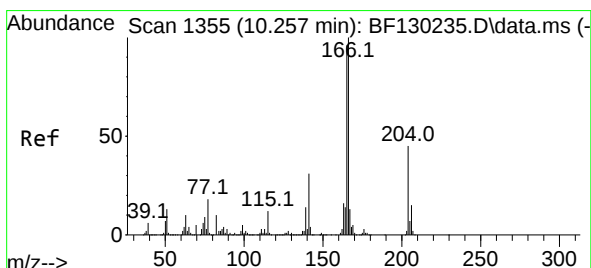
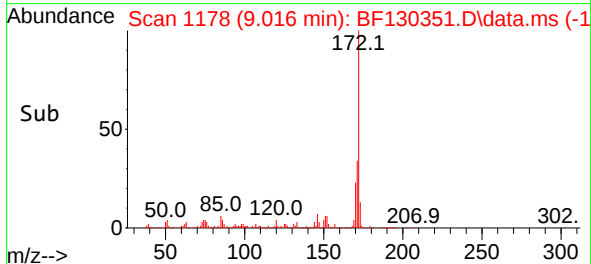
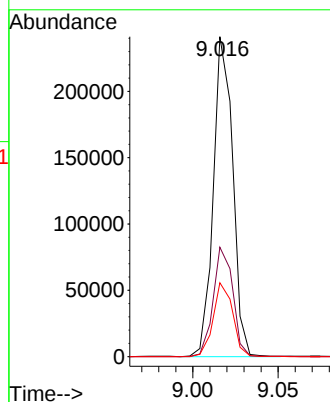
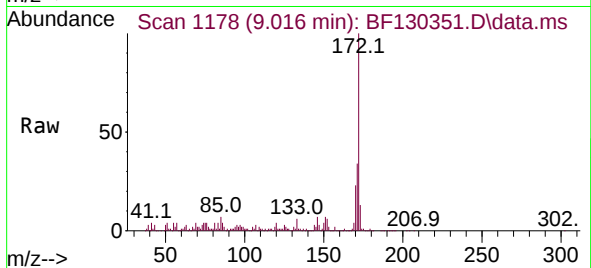
Tgt Ion:172	Resp: 19088
Ion Ratio	Lower Upper
172	100
171	34.2 28.3 42.5
170	23.1 18.7 28.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 09/21/2022

Supervised By :Jagrut Upadhyay 09/21/2022



#58

Fluorene

Concen: 3.927 ng

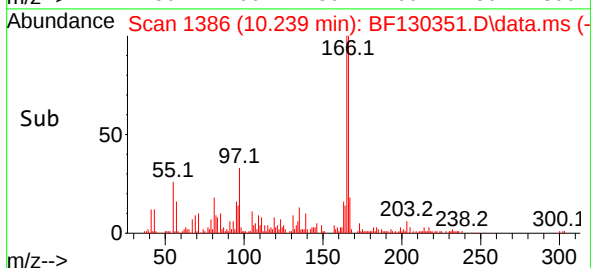
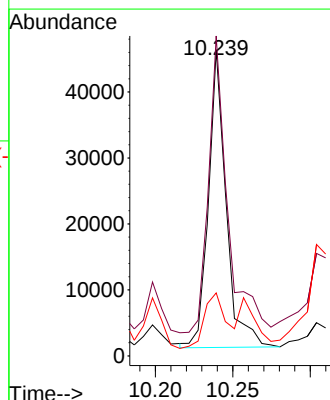
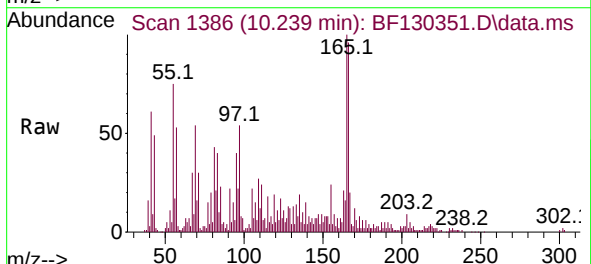
RT: 10.239 min Scan# 1386

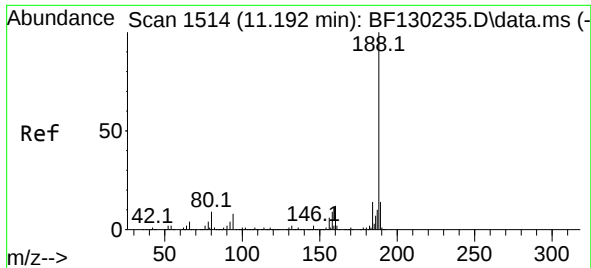
Delta R.T. 0.000 min

Lab File: BF130351.D

Acq: 20 Sep 2022 18:56

Tgt Ion:166	Resp: 36073
Ion Ratio	Lower Upper
166	100
165	104.5 78.8 118.2
167	20.5 10.6 15.8





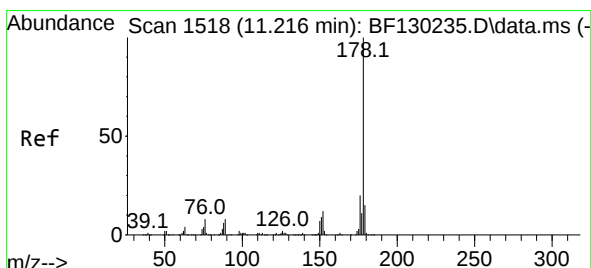
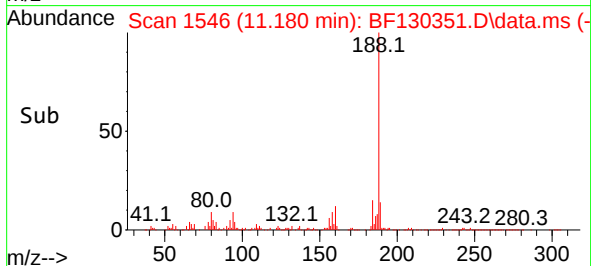
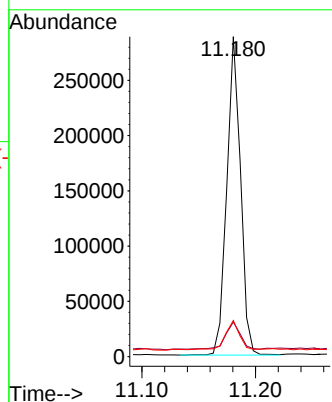
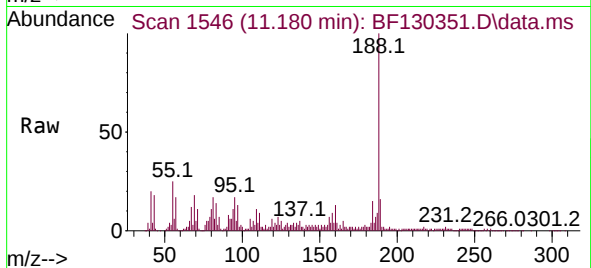
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.180 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF130351.D
Acq: 20 Sep 2022 18:56

Instrument :
BNA_F
ClientSampleId :
WC-17-4-1

Tgt Ion:188 Resp: 241673
Ion Ratio Lower Upper
188 100
94 10.8 7.4 11.2
80 11.3 7.9 11.9

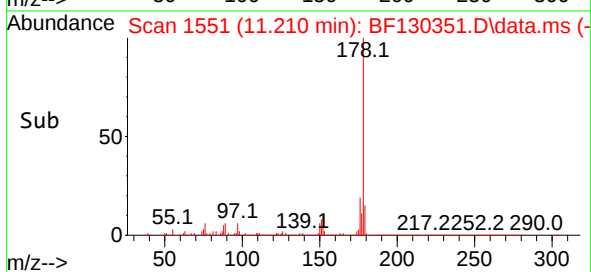
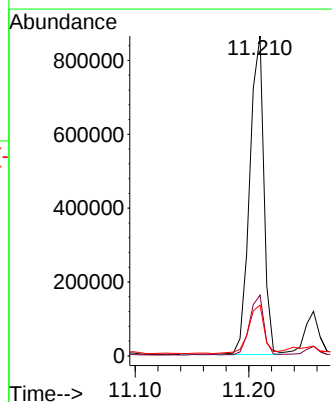
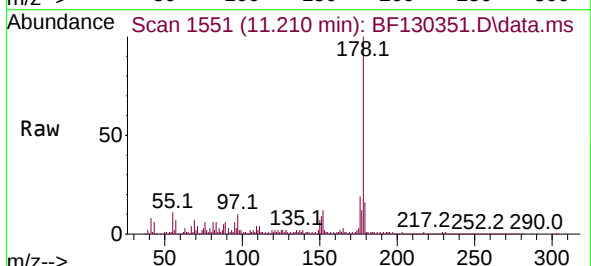
Manual Integrations
APPROVED

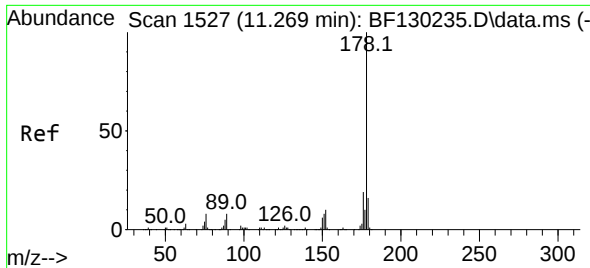
Reviewed By :Christian Giraldo 09/21/2022
Supervised By :Jagrut Upadhyay 09/21/2022



#71
Phenanthrene
Concen: 54.929 ng
RT: 11.210 min Scan# 1551
Delta R.T. 0.012 min
Lab File: BF130351.D
Acq: 20 Sep 2022 18:56

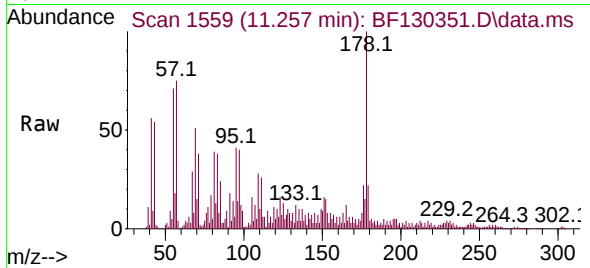
Tgt Ion:178 Resp: 745301
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.0
179 15.9 12.4 18.6





#72
 Anthracene
 Concen: 8.411 ng m
 RT: 11.257 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: BF130351.D
 Acq: 20 Sep 2022 18:56

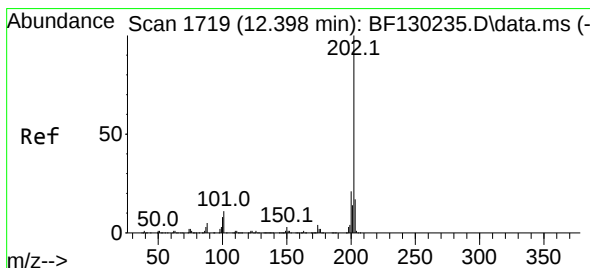
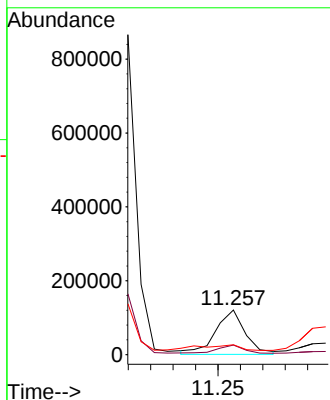
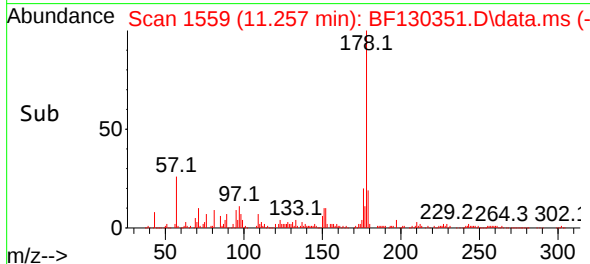
Instrument :
 BNA_F
 ClientSampleId :
 WC-17-4-1



Tgt Ion:178 Resp: 110128
 Ion Ratio Lower Upper
 178 100
 176 21.5 15.0 22.6
 179 22.0 12.7 19.1

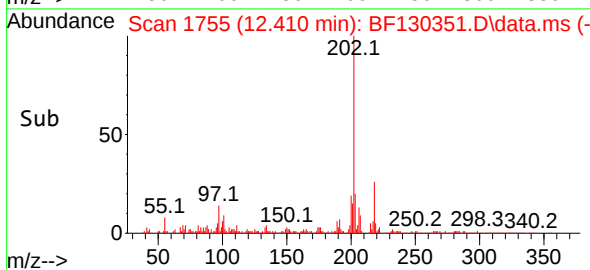
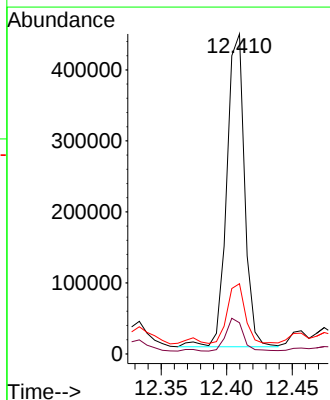
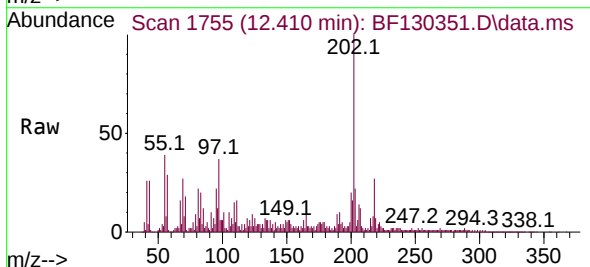
Manual Integrations
 APPROVED

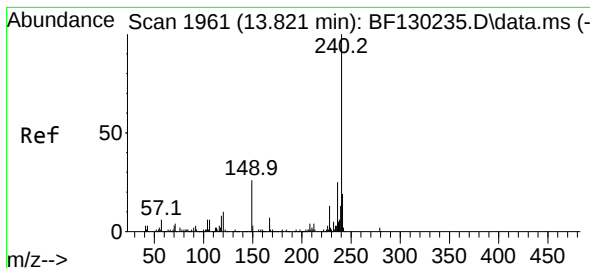
Reviewed By :Christian Giraldo 09/21/2022
 Supervised By :Jagrut Upadhyay 09/21/2022



#75
 Fluoranthene
 Concen: 31.946 ng
 RT: 12.410 min Scan# 1755
 Delta R.T. 0.029 min
 Lab File: BF130351.D
 Acq: 20 Sep 2022 18:56

Tgt Ion:202 Resp: 418857
 Ion Ratio Lower Upper
 202 100
 101 9.7 0.0 31.8
 203 21.9 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng m

RT: 13.868 min Scan# 20

Delta R.T. 0.065 min

Lab File: BF130351.D

Acq: 20 Sep 2022 18:56

Instrument :

BNA_F

ClientSampleId :

WC-17-4-1

Tgt Ion:240 Resp: 184585

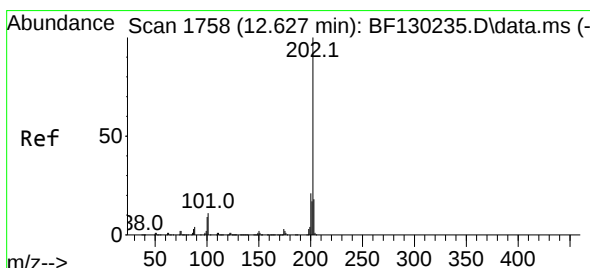
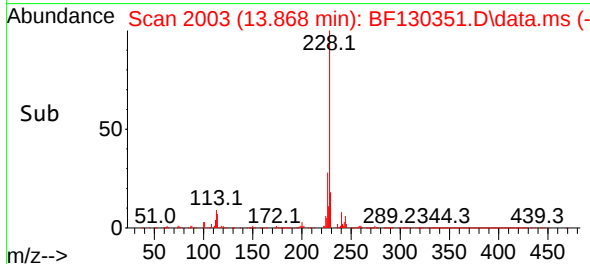
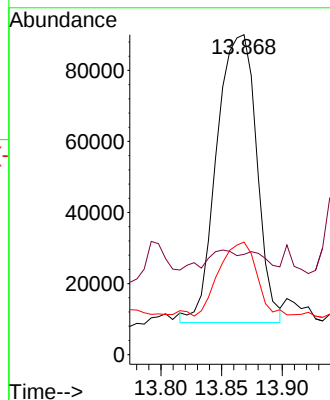
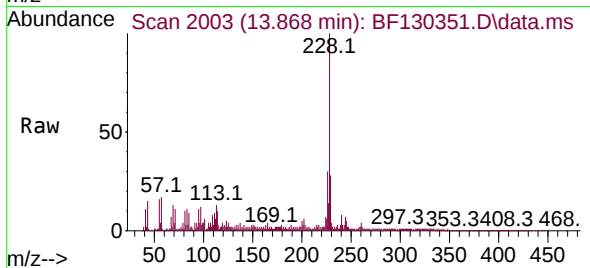
Ion	Ratio	Lower	Upper
240	100		
120	31.3	8.7	13.1
236	35.2	20.9	31.3

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 09/21/2022

Supervised By :Jagrut Upadhyay 09/21/2022



#78

Pyrene

Concen: 76.732 ng

RT: 12.639 min Scan# 1794

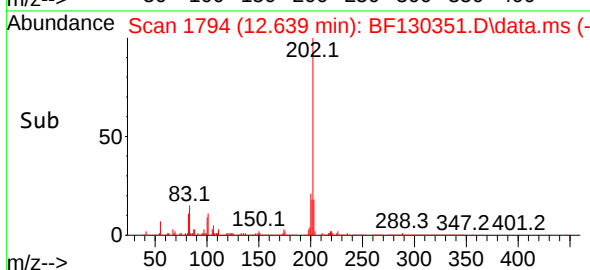
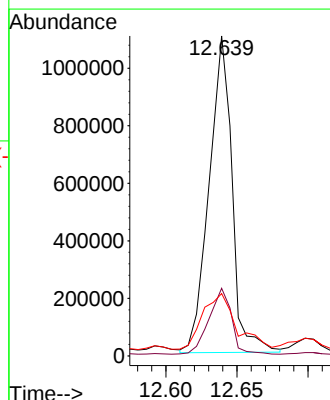
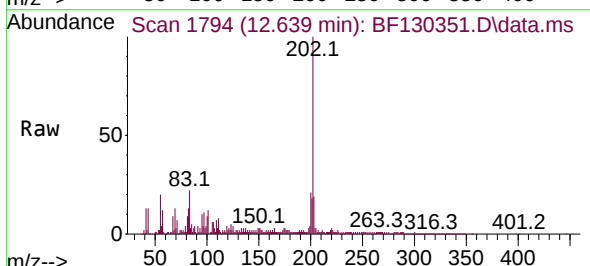
Delta R.T. 0.029 min

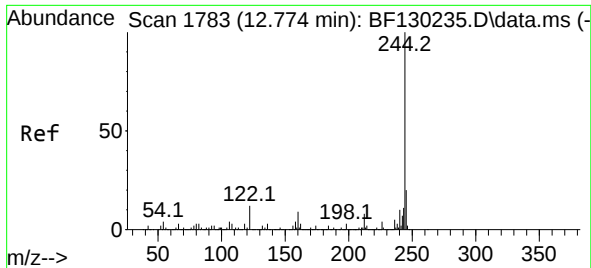
Lab File: BF130351.D

Acq: 20 Sep 2022 18:56

Tgt Ion:202 Resp: 1239031

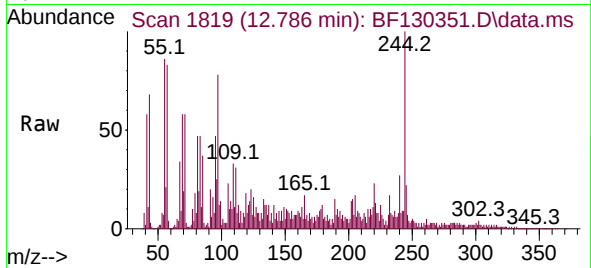
Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.2	25.8
203	19.5	14.3	21.5





#79
 Terphenyl-d14
 Concen: 23.822 ng
 RT: 12.786 min Scan# 1819
 Delta R.T. 0.029 min
 Lab File: BF130351.D
 Acq: 20 Sep 2022 18:56

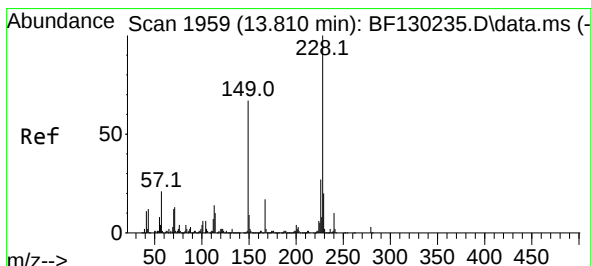
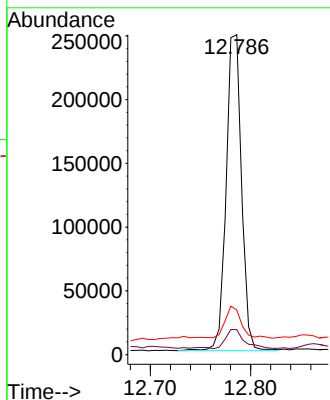
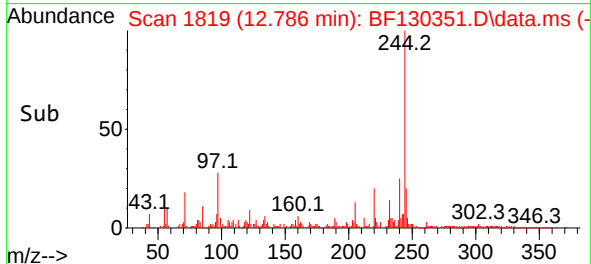
Instrument :
 BNA_F
 ClientSampleId :
 WC-17-4-1



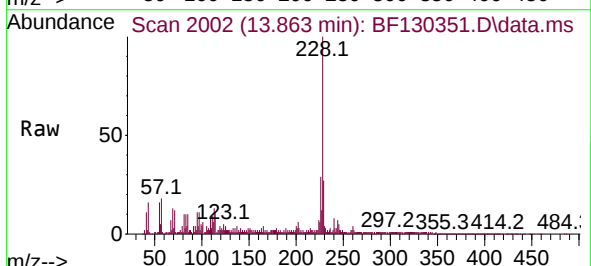
Tgt Ion:244 Resp: 265447
 Ion Ratio Lower Upper
 244 100
 212 7.8 5.9 8.9
 122 14.0 8.5 12.7

Manual Integrations
 APPROVED

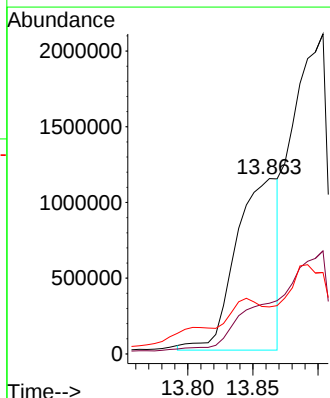
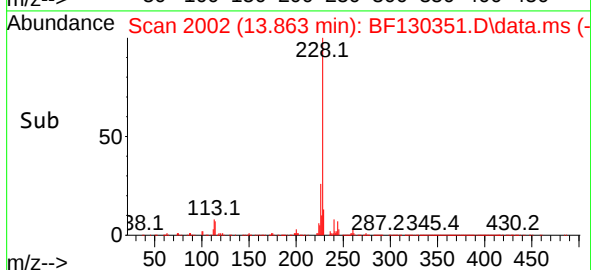
Reviewed By :Christian Giraldo 09/21/2022
 Supervised By :Jagrut Upadhyay 09/21/2022

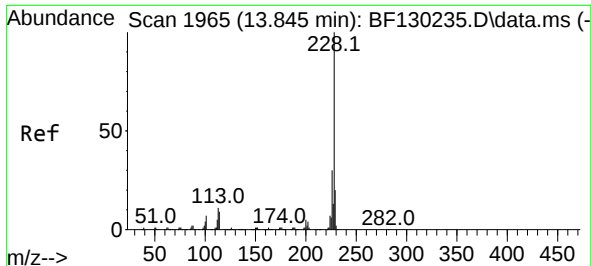


#81
 Benzo(a)anthracene
 Concen: 209.445 ng m
 RT: 13.863 min Scan# 2002
 Delta R.T. 0.071 min
 Lab File: BF130351.D
 Acq: 20 Sep 2022 18:56



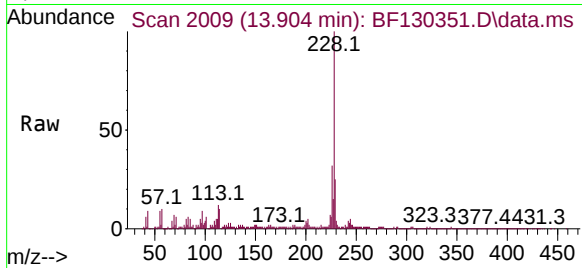
Tgt Ion:228 Resp: 2571875
 Ion Ratio Lower Upper
 228 100
 226 28.9 21.9 32.9
 229 26.8 16.1 24.1#





#83
Chrysene
Concen: 339.982 ng m
RT: 13.904 min Scan# 20
Delta R.T. 0.077 min
Lab File: BF130351.D
Acq: 20 Sep 2022 18:56

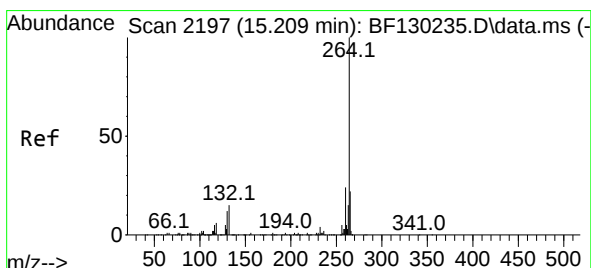
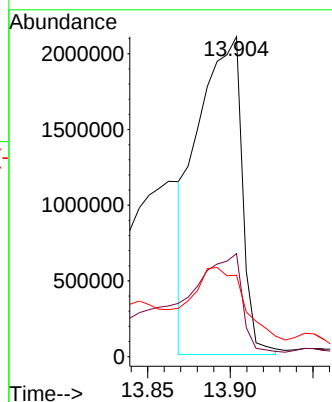
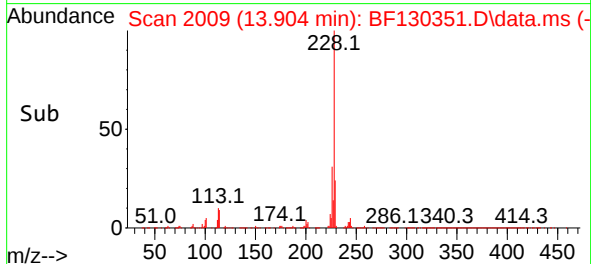
Instrument :
BNA_F
ClientSampleId :
WC-17-4-1



Tgt Ion:228 Resp: 3963986
Ion Ratio Lower Upper
228 100
226 32.2 23.8 35.8
229 25.4 15.3 22.9

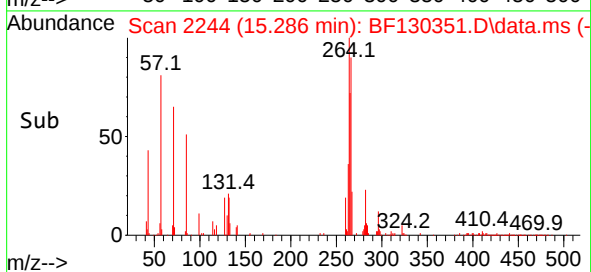
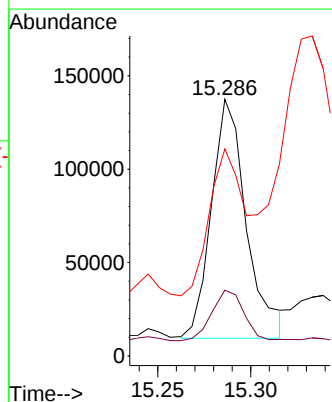
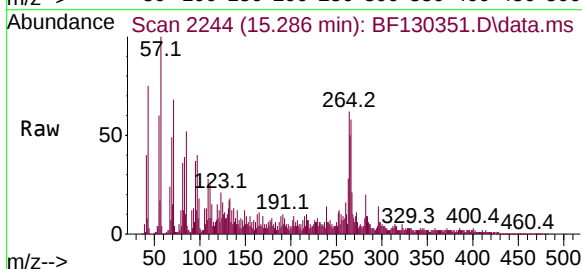
Manual Integrations
APPROVED

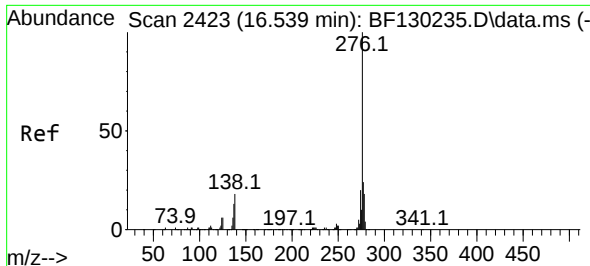
Reviewed By :Christian Giraldo 09/21/2022
Supervised By :Jagrut Upadhyay 09/21/2022



#86
Perylene-d12
Concen: 20.000 ng m
RT: 15.286 min Scan# 2244
Delta R.T. 0.100 min
Lab File: BF130351.D
Acq: 20 Sep 2022 18:56

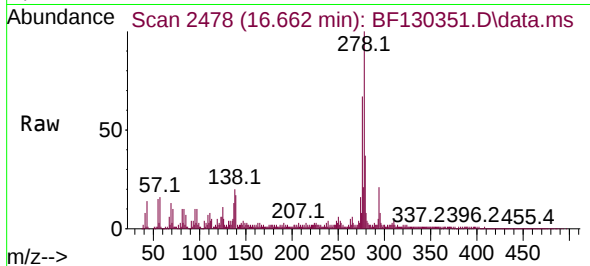
Tgt Ion:264 Resp: 167269
Ion Ratio Lower Upper
264 100
260 25.6 19.3 28.9
265 80.7 17.0 25.4





#87
Indeno(1,2,3-cd)pyrene
Concen: 45.642 ng m
RT: 16.662 min Scan# 2423
Delta R.T. 0.153 min
Lab File: BF130351.D
Acq: 20 Sep 2022 18:56

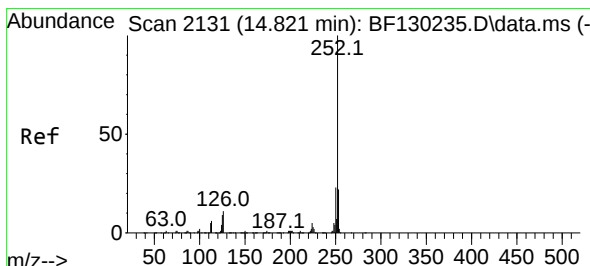
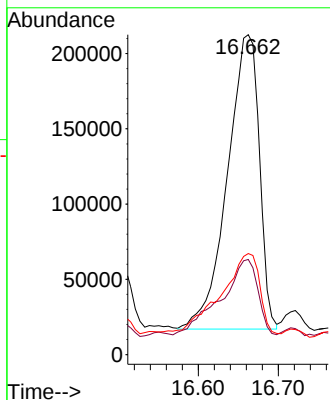
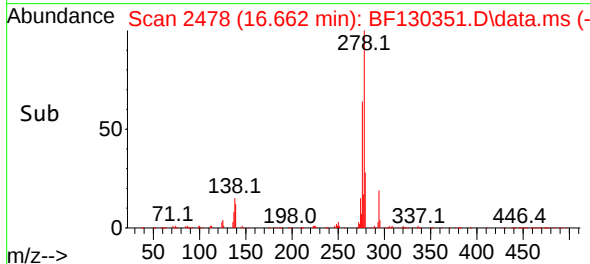
Instrument :
BNA_F
ClientSampleId :
WC-17-4-1



Tgt Ion: 276 Resp: 541399
Ion Ratio Lower Upper
276 100
138 12.1 18.5 27.7
277 4.3 20.2 30.4

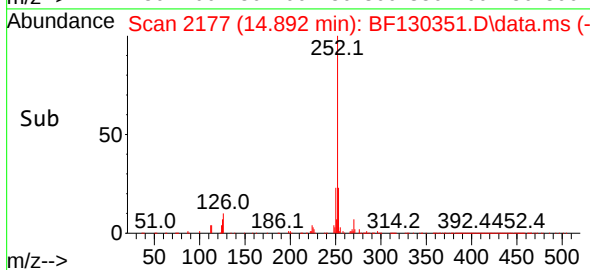
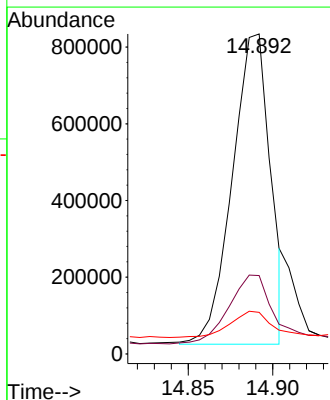
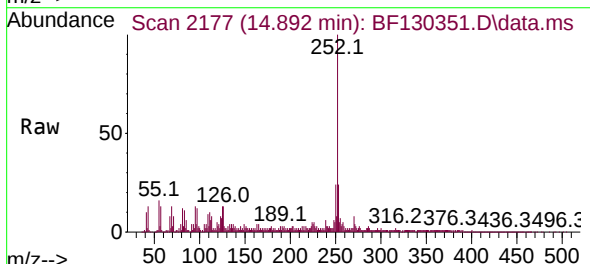
Manual Integrations
APPROVED

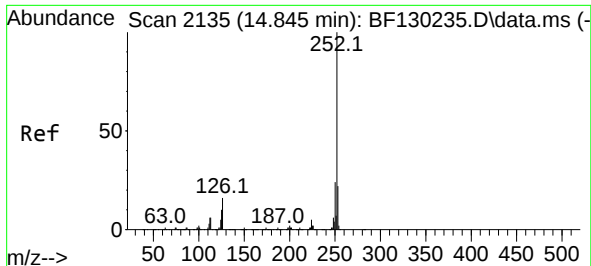
Reviewed By : Christian Giraldo 09/21/2022
Supervised By : Jagrut Upadhyay 09/21/2022



#88
Benzo(b)fluoranthene
Concen: 115.880 ng m
RT: 14.892 min Scan# 2177
Delta R.T. 0.094 min
Lab File: BF130351.D
Acq: 20 Sep 2022 18:56

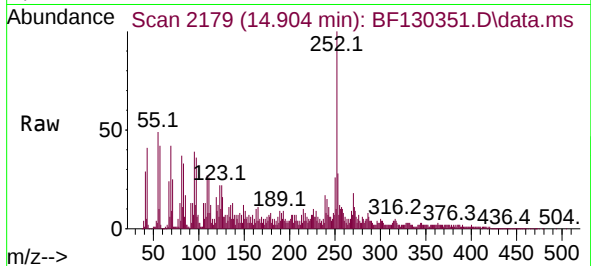
Tgt Ion: 252 Resp: 1265134
Ion Ratio Lower Upper
252 100
253 24.5 17.7 26.5
125 13.0 8.1 12.1





#89
Benzo(k)fluoranthene
Concen: 13.260 ng m
RT: 14.904 min Scan# 2135
Delta R.T. 0.077 min
Lab File: BF130351.D
Acq: 20 Sep 2022 18:56

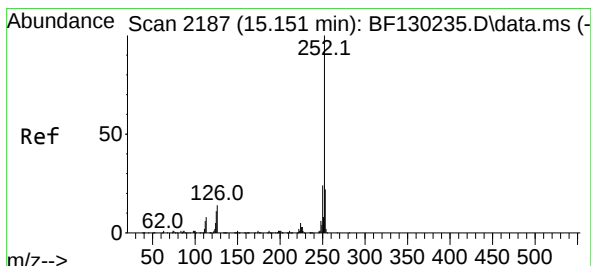
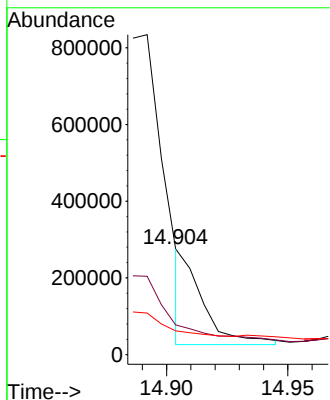
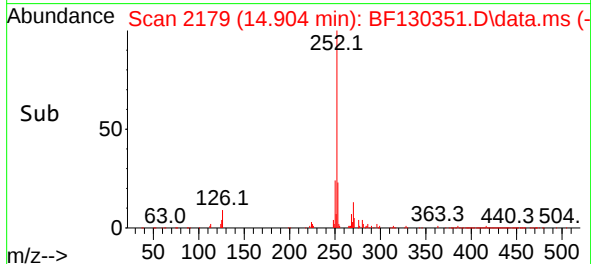
Instrument :
BNA_F
ClientSampleId :
WC-17-4-1



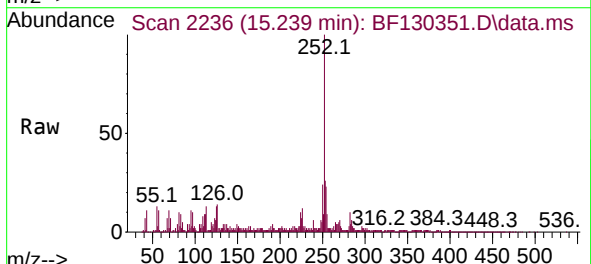
Tgt Ion:252 Resp: 142412
Ion Ratio Lower Upper
252 100
253 28.0 17.4 26.2
125 22.5 7.9 11.9

Manual Integrations
APPROVED

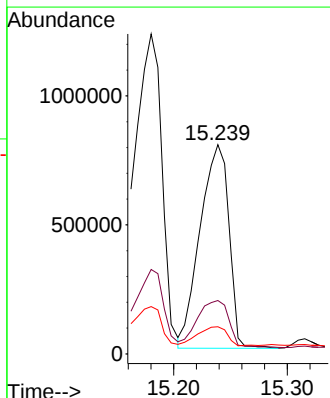
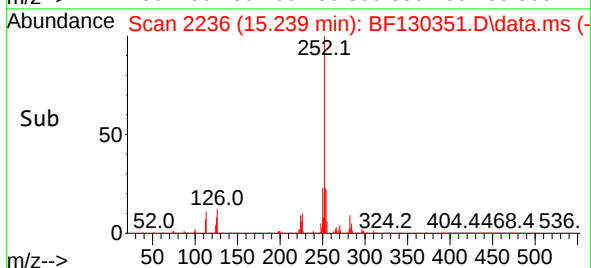
Reviewed By :Christian Giraldo 09/21/2022
Supervised By :Jagrut Upadhyay 09/21/2022

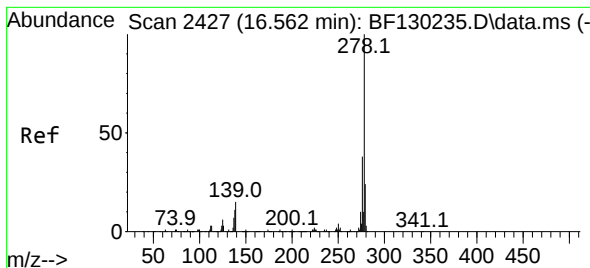


#90
Benzo(a)pyrene
Concen: 161.229 ng
RT: 15.239 min Scan# 2236
Delta R.T. 0.106 min
Lab File: BF130351.D
Acq: 20 Sep 2022 18:56



Tgt Ion:252 Resp: 1394525
Ion Ratio Lower Upper
252 100
253 25.5 17.8 26.6
125 13.0 9.0 13.6





#91

Dibenzo(a,h)anthracene

Concen: 75.639 ng m

RT: 16.662 min Scan# 24

Delta R.T. 0.135 min

Lab File: BF130351.D

Acq: 20 Sep 2022 18:56

Instrument :

BNA_F

ClientSampleId :

WC-17-4-1

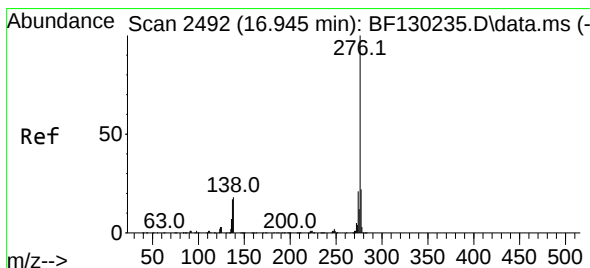
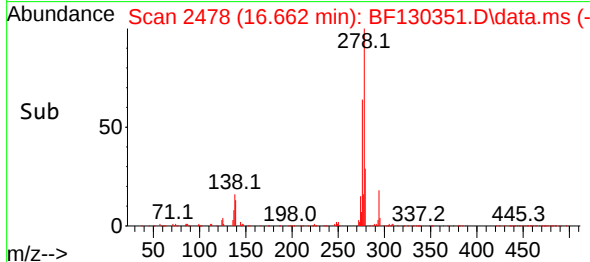
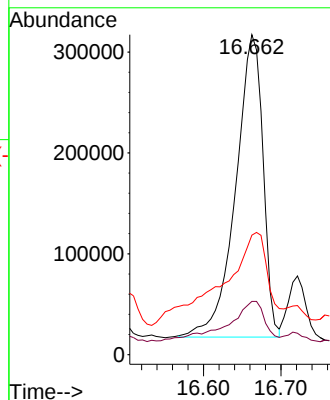
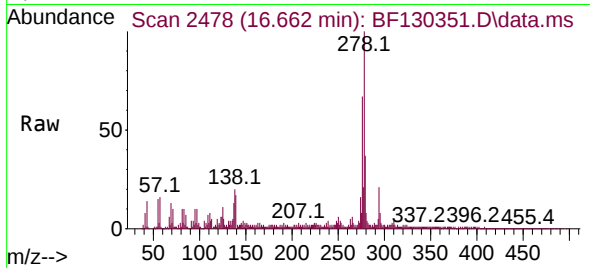
Tgt Ion:278 Resp: 736030
 Ion Ratio Lower Upper
 278 100
 139 16.6 11.8 17.8
 279 37.3 19.4 29.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 09/21/2022

Supervised By :Jagrut Upadhyay 09/21/2022



#92

Benzo(g,h,i)perylene

Concen: 98.266 ng

RT: 17.086 min Scan# 2550

Delta R.T. 0.177 min

Lab File: BF130351.D

Acq: 20 Sep 2022 18:56

Tgt Ion:276 Resp: 963231
 Ion Ratio Lower Upper
 276 100
 277 27.0 18.6 27.8
 138 18.9 14.6 21.8

