

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042123\
 Data File : BF132980.D
 Acq On : 21 Apr 2023 21:03
 Operator : CG\JU
 Sample : 02270-11
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-27-8-10-20230411

Quant Time: Apr 22 04:30:55 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Apr 22 03:30:56 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Christian Giraldo 04/24/2023
 Supervised By : Jagrut Upadhyay 04/24/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.751	152	209207	20.000	ng	0.00
21) Naphthalene-d8	8.034	136	817569	20.000	ng	0.00
39) Acenaphthene-d10	9.786	164	383157	20.000	ng	0.00
64) Phenanthrene-d10	11.269	188	586675	20.000	ng	0.00
76) Chrysene-d12	13.904	240	345419	20.000	ng	0.00
86) Perylene-d12	15.327	264	361134	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	911612	65.824	ng	0.00
7) Phenol-d6	6.381	99	1144476	66.579	ng	0.00
23) Nitrobenzene-d5	7.310	82	692061	45.691	ng	-0.01
42) 2,4,6-Tribromophenol	10.569	330	130634	33.901	ng	-0.01
45) 2-Fluorobiphenyl	9.110	172	1182113	51.615	ng	0.00
79) Terphenyl-d14	12.851	244	919761	45.923	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.051	128	105481	2.581	ng	99
52) Acenaphthene	9.816	154	110888	4.659	ng	96
55) Dibenzofuran	9.986	168	72511	2.234	ng	98
58) Fluorene	10.327	166	77803	3.271	ng	94
71) Phenanthrene	11.292	178	895148	28.389	ng	100
72) Anthracene	11.339	178	223853	6.937	ng	99
73) Carbazole	11.492	167	119951	4.175	ng	99
75) Fluoranthene	12.480	202	1069051	33.782	ng	97
78) Pyrene	12.704	202	929795	31.401	ng	99
81) Benzo(a)anthracene	13.892	228	490198	20.637	ng	99
83) Chrysene	13.927	228	416483	17.538	ng	98
87) Indeno(1,2,3-cd)pyrene	16.709	276	199287	9.701	ng	93
88) Benzo(b)fluoranthene	14.921	252	566905m	24.675	ng	
89) Benzo(k)fluoranthene	14.945	252	177576m	7.797	ng	
90) Benzo(a)pyrene	15.268	252	362471	17.333	ng	96
91) Dibenzo(a,h)anthracene	16.721	278	54632	3.189	ng	# 92
92) Benzo(g,h,i)perylene	17.127	276	182075	10.764	ng	98

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

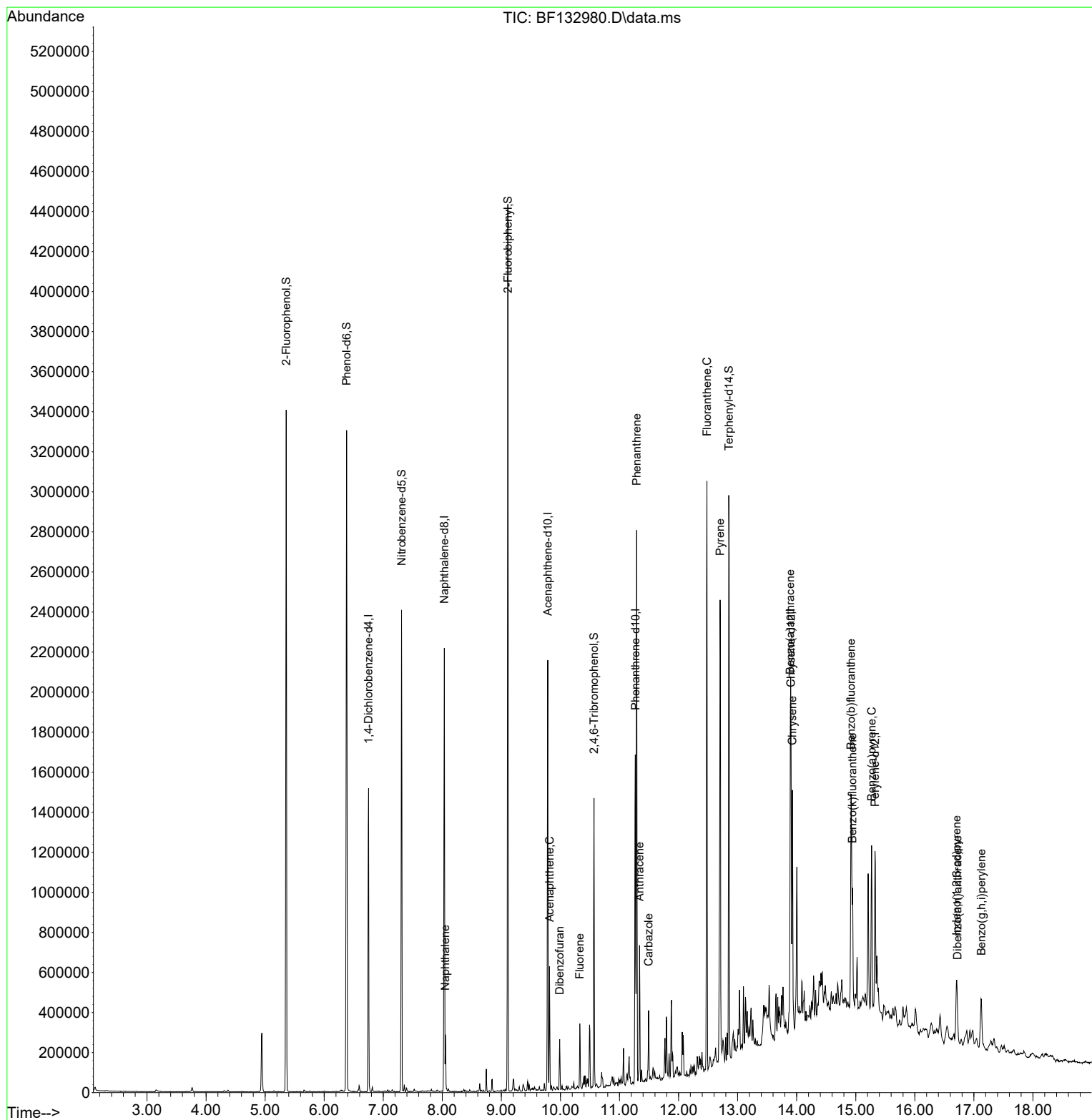
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042123\
Data File : BF132980.D
Acq On : 21 Apr 2023 21:03
Operator : CG\JU
Sample : 02270-11
Misc :
ALS Vial : 17 Sample Multiplier: 1

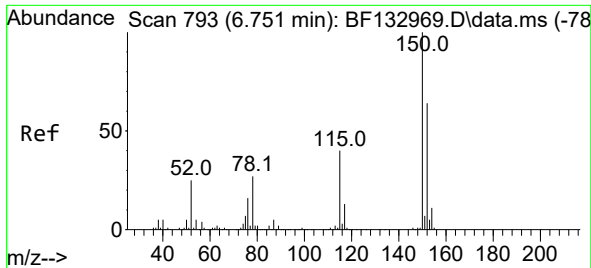
Instrument :
BNA_F
ClientSampleId :
SB-27-8-10-20230411

Quant Time: Apr 22 04:30:55 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Apr 22 03:30:56 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

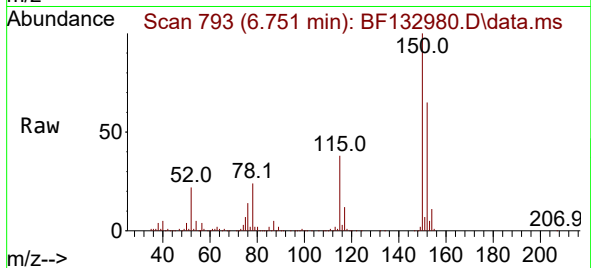
Reviewed By :Christian Giraldo 04/24/2023
Supervised By :Jagrut Upadhyay 04/24/2023





#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.751 min Scan# 793
 Delta R.T. 0.000 min
 Lab File: BF132980.D
 Acq: 21 Apr 2023 21:03

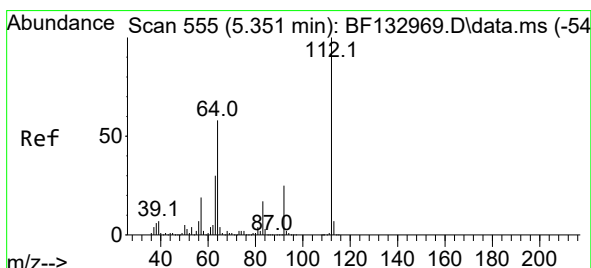
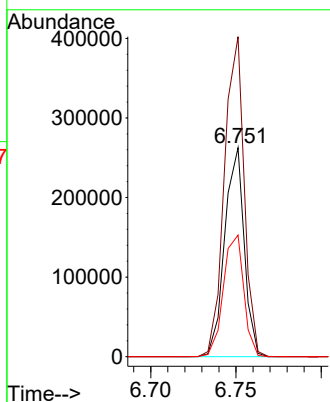
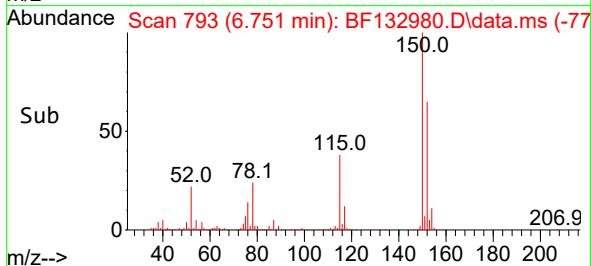
Instrument :
 BNA_F
 ClientSampleId :
 SB-27-8-10-20230411



Tgt Ion:152 Resp: 20920
 Ion Ratio Lower Upper
 152 100
 150 153.2 124.8 187.2
 115 58.2 49.9 74.9

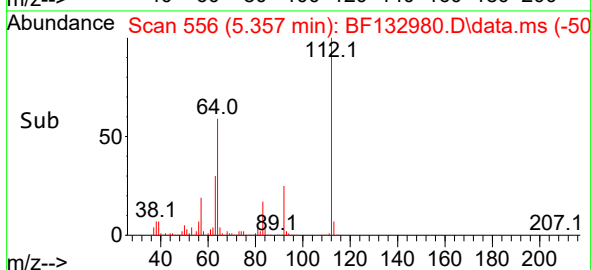
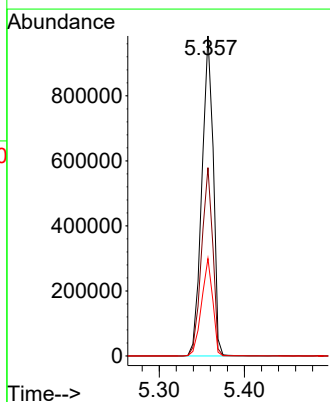
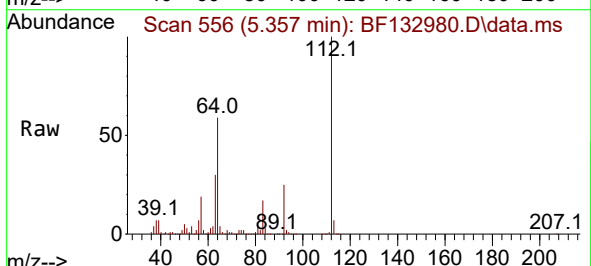
Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 04/24/2023
 Supervised By :Jagrut Upadhyay 04/24/2023



#5
 2-Fluorophenol
 Concen: 65.824 ng
 RT: 5.357 min Scan# 556
 Delta R.T. 0.006 min
 Lab File: BF132980.D
 Acq: 21 Apr 2023 21:03

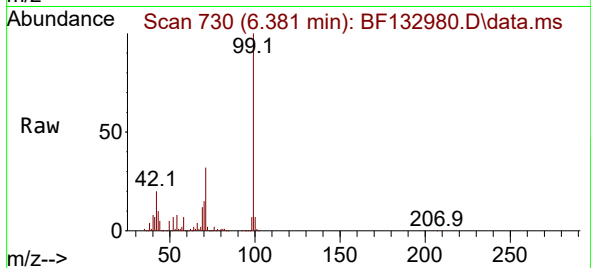
Tgt Ion:112 Resp: 911612
 Ion Ratio Lower Upper
 112 100
 64 58.8 46.8 70.2
 63 30.4 23.8 35.8





#7
Phenol-d6
Concen: 66.579 ng
RT: 6.381 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF132980.D
Acq: 21 Apr 2023 21:03

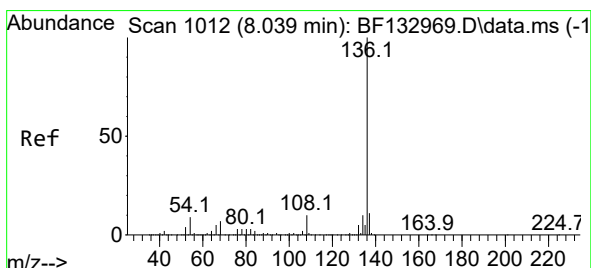
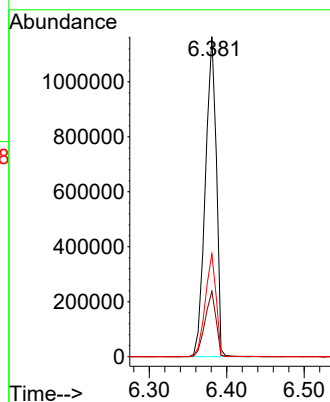
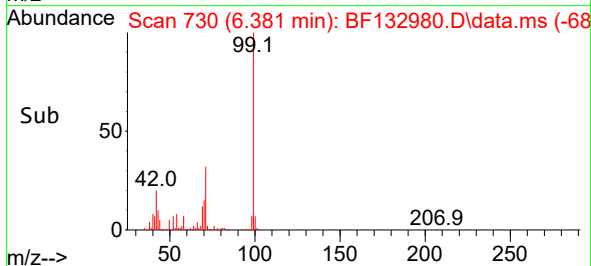
Instrument :
BNA_F
ClientSampleId :
SB-27-8-10-20230411



Tgt Ion: 99 Resp: 1144470
Ion Ratio Lower Upper
99 100
42 20.5 16.3 24.5
71 32.1 25.6 38.4

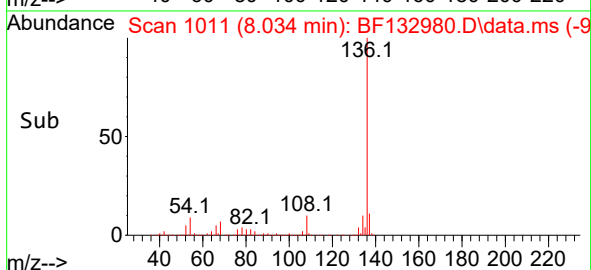
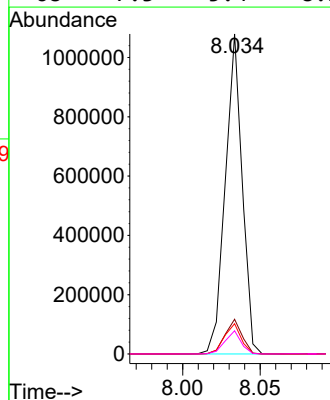
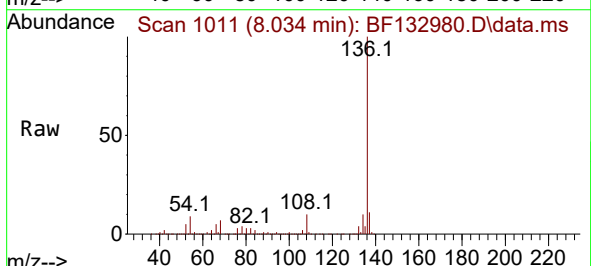
Manual Integrations
APPROVED

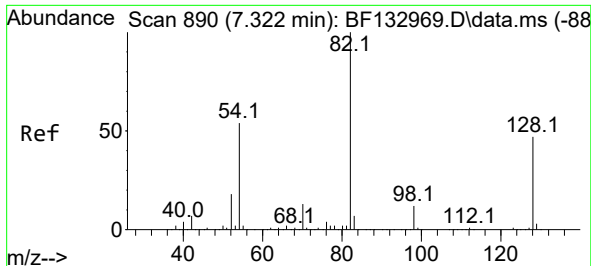
Reviewed By :Christian Giraldo 04/24/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.034 min Scan# 1011
Delta R.T. -0.006 min
Lab File: BF132980.D
Acq: 21 Apr 2023 21:03

Tgt Ion:136 Resp: 817569
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 9.4 7.0 10.4
68 7.3 5.4 8.2





#23

Nitrobenzene-d5

Concen: 45.691 ng

RT: 7.310 min Scan# 890

Delta R.T. -0.012 min

Lab File: BF132980.D

Acq: 21 Apr 2023 21:03

Instrument :

BNA_F

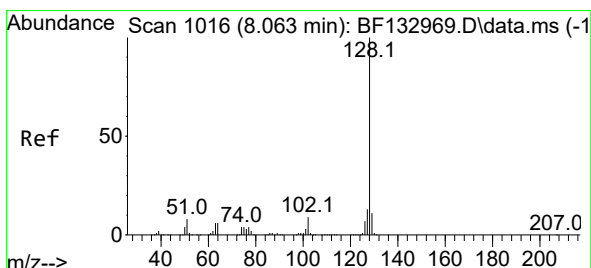
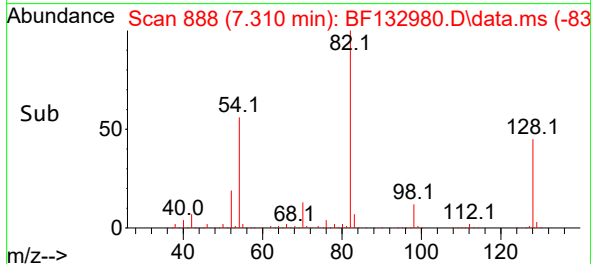
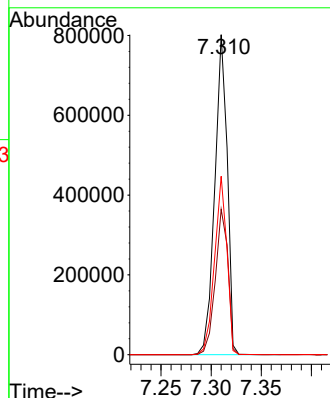
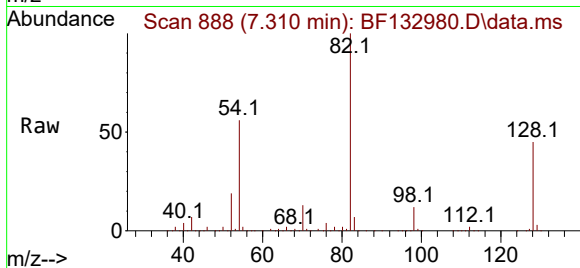
ClientSampleId :

SB-27-8-10-20230411

Tgt Ion: 82 Resp: 692063
 Ion Ratio Lower Upper
 82 100
 128 45.5 37.7 56.5
 54 55.7 43.0 64.4

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 04/24/2023
 Supervised By :Jagrut Upadhyay 04/24/2023



#31

Naphthalene

Concen: 2.581 ng

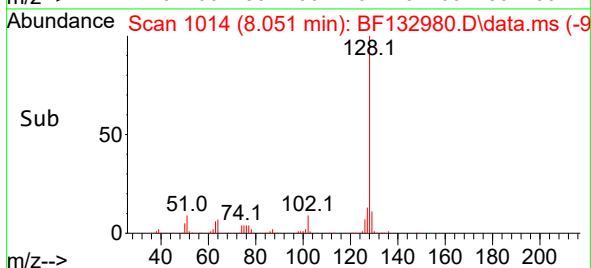
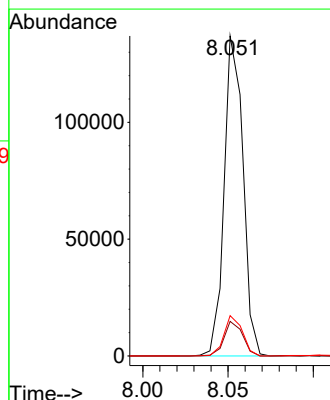
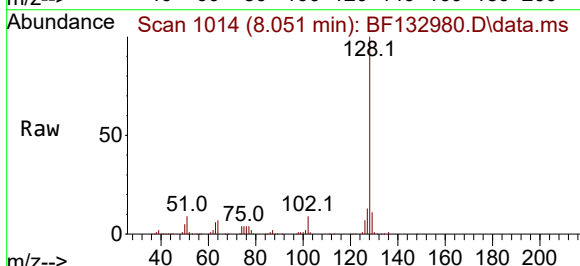
RT: 8.051 min Scan# 1014

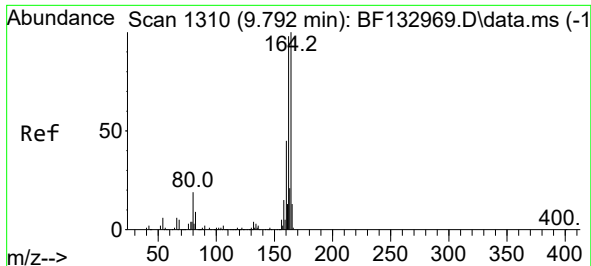
Delta R.T. -0.012 min

Lab File: BF132980.D

Acq: 21 Apr 2023 21:03

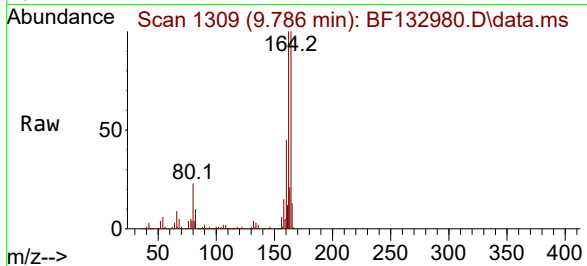
Tgt Ion:128 Resp: 105481
 Ion Ratio Lower Upper
 128 100
 129 10.8 8.8 13.2
 127 12.6 10.7 16.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.786 min Scan# 1309
Delta R.T. -0.006 min
Lab File: BF132980.D
Acq: 21 Apr 2023 21:03

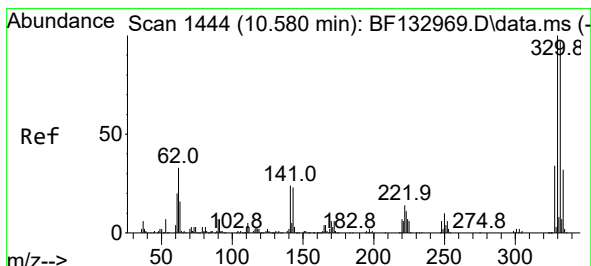
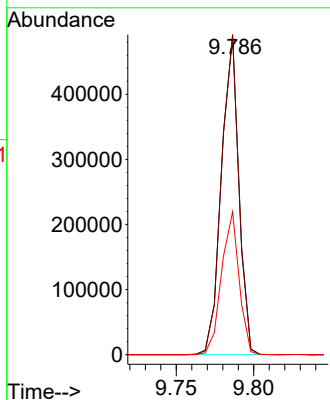
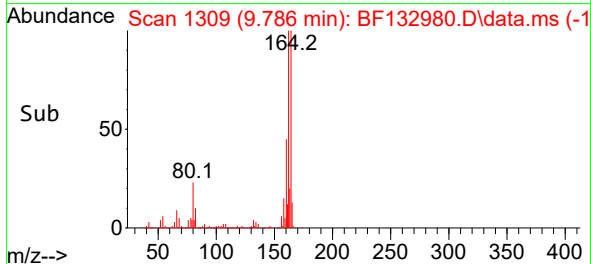
Instrument :
BNA_F
ClientSampleId :
SB-27-8-10-20230411



Tgt Ion:164 Resp: 38315
Ion Ratio Lower Upper
164 100
162 99.7 78.7 118.1
160 44.6 35.8 53.6

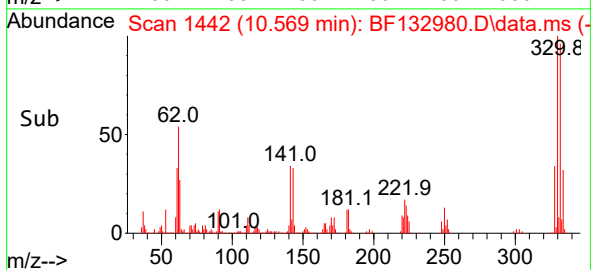
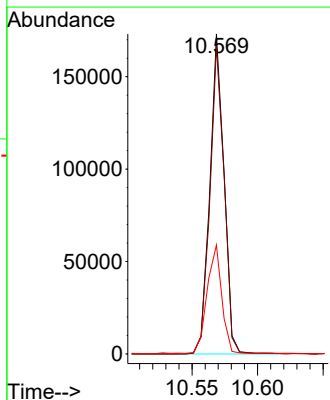
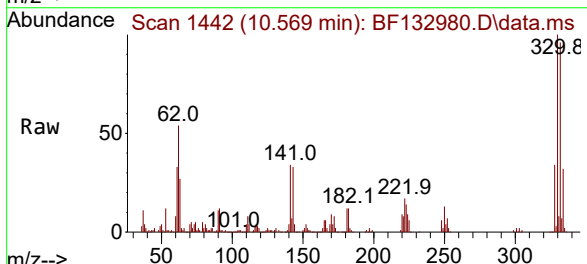
Manual Integrations
APPROVED

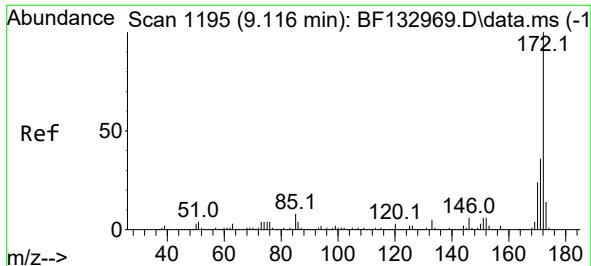
Reviewed By :Christian Giraldo 04/24/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#42
2,4,6-Tribromophenol
Concen: 33.901 ng
RT: 10.569 min Scan# 1442
Delta R.T. -0.012 min
Lab File: BF132980.D
Acq: 21 Apr 2023 21:03

Tgt Ion:330 Resp: 130634
Ion Ratio Lower Upper
330 100
332 96.3 77.1 115.7
141 34.8 25.8 38.8





#45

2-Fluorobiphenyl

Concen: 51.615 ng

RT: 9.110 min Scan# 1195

Delta R.T. -0.006 min

Lab File: BF132980.D

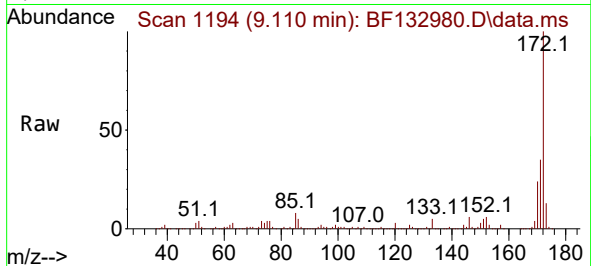
Acq: 21 Apr 2023 21:03

Instrument :

BNA_F

ClientSampleId :

SB-27-8-10-20230411



Tgt Ion:172 Resp: 118211

Ion Ratio Lower Upper

172 100

171 35.5 28.8 43.2

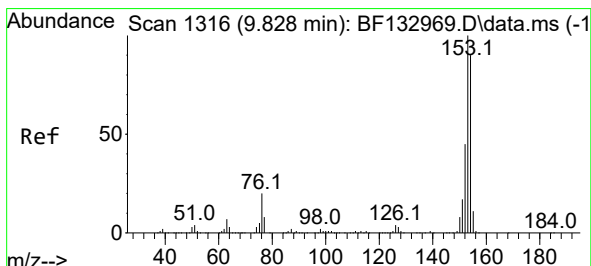
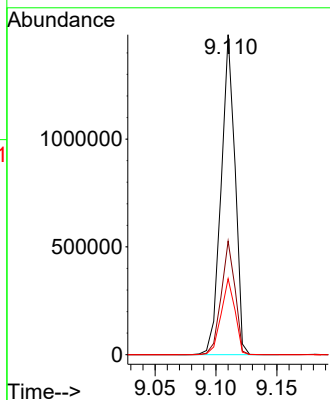
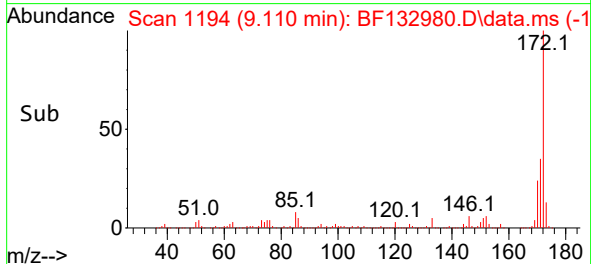
170 23.8 19.4 29.2

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/24/2023

Supervised By :Jagrut Upadhyay 04/24/2023



#52

Acenaphthene

Concen: 4.659 ng

RT: 9.816 min Scan# 1314

Delta R.T. -0.012 min

Lab File: BF132980.D

Acq: 21 Apr 2023 21:03

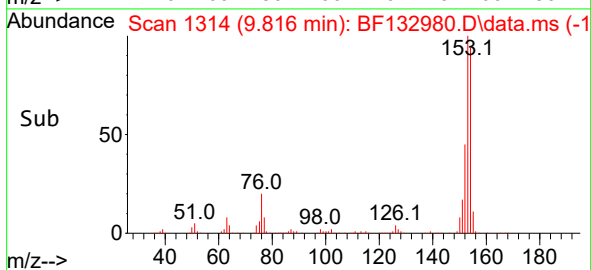
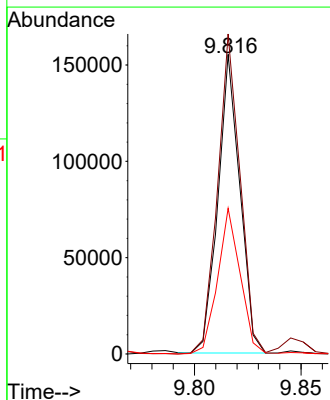
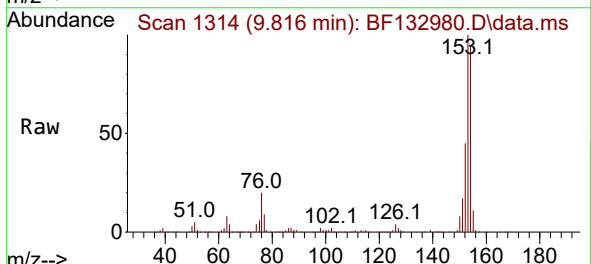
Tgt Ion:154 Resp: 110888

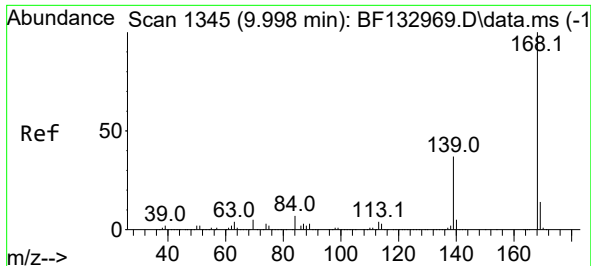
Ion Ratio Lower Upper

154 100

153 106.8 89.0 133.6

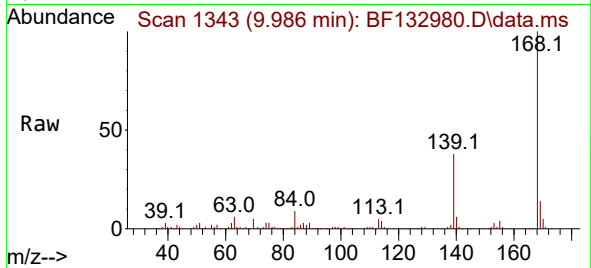
152 48.6 40.4 60.6





#55
Dibenzenofuran
Concen: 2.234 ng
RT: 9.986 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF132980.D
Acq: 21 Apr 2023 21:03

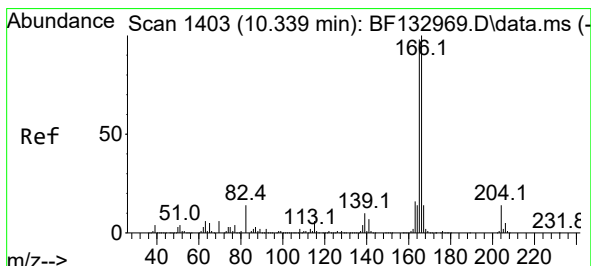
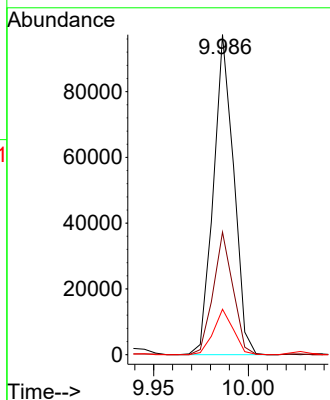
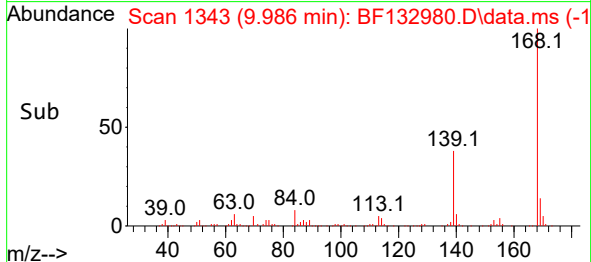
Instrument :
BNA_F
ClientSampleId :
SB-27-8-10-20230411



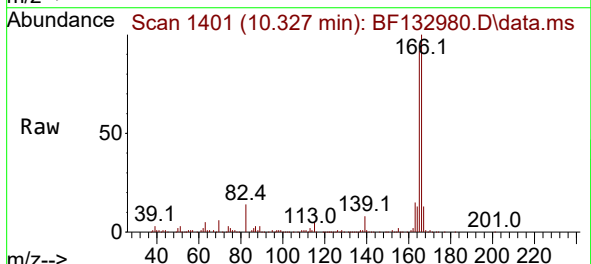
Tgt Ion:168 Resp: 7251
Ion Ratio Lower Upper
168 100
139 38.3 29.8 44.8
169 14.2 10.8 16.2

Manual Integrations
APPROVED

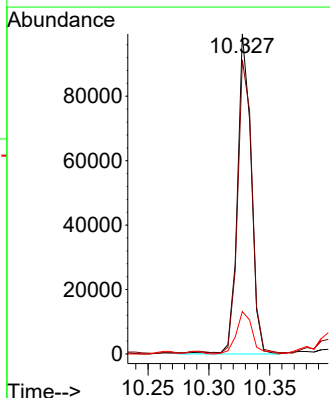
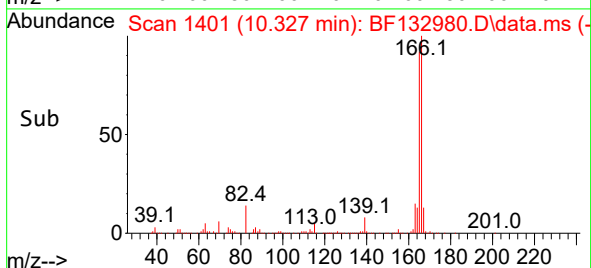
Reviewed By :Christian Giraldo 04/24/2023
Supervised By :Jagrut Upadhyay 04/24/2023

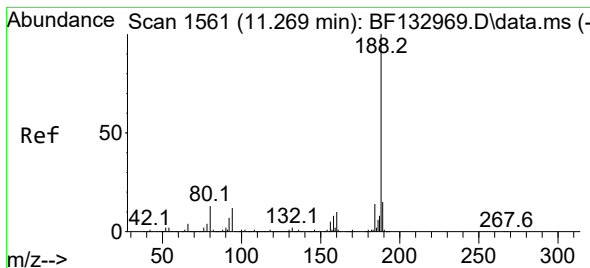


#58
Fluorene
Concen: 3.271 ng
RT: 10.327 min Scan# 1401
Delta R.T. -0.012 min
Lab File: BF132980.D
Acq: 21 Apr 2023 21:03



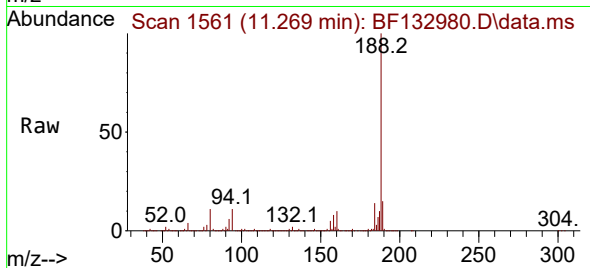
Tgt Ion:166 Resp: 77803
Ion Ratio Lower Upper
166 100
165 91.9 78.6 117.8
167 13.3 11.0 16.4





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.269 min Scan# 1561
Delta R.T. -0.000 min
Lab File: BF132980.D
Acq: 21 Apr 2023 21:03

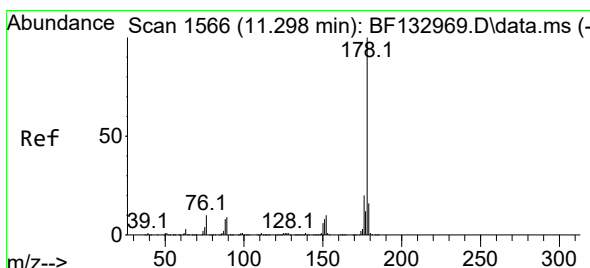
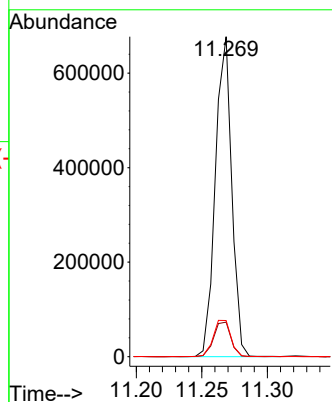
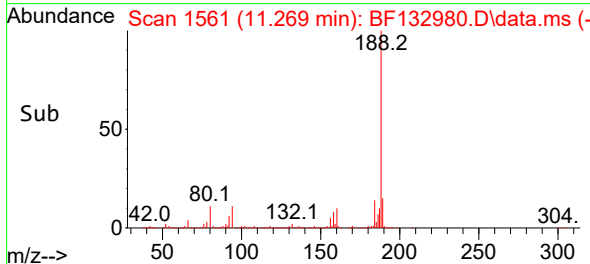
Instrument :
BNA_F
ClientSampleId :
SB-27-8-10-20230411



Tgt Ion:188 Resp: 586679
Ion Ratio Lower Upper
188 100
94 10.8 9.7 14.5
80 11.3 10.4 15.6

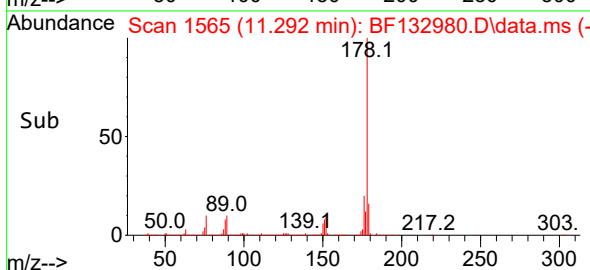
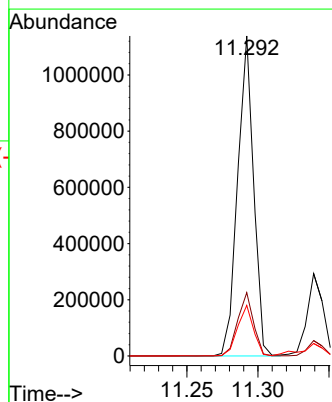
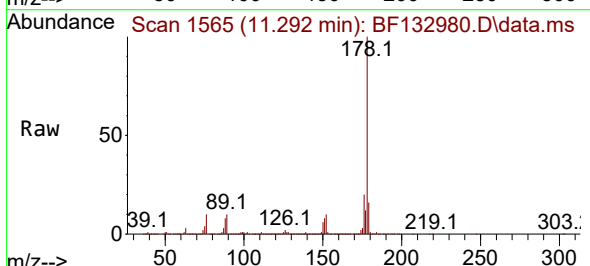
Manual Integrations
APPROVED

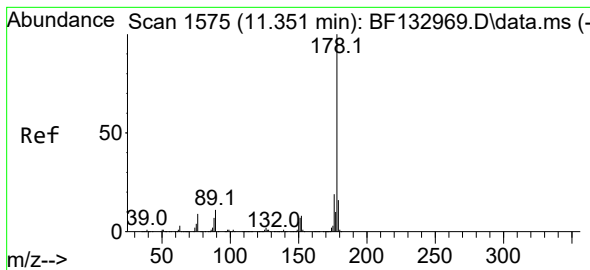
Reviewed By :Christian Giraldo 04/24/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#71
Phenanthrene
Concen: 28.389 ng
RT: 11.292 min Scan# 1565
Delta R.T. -0.006 min
Lab File: BF132980.D
Acq: 21 Apr 2023 21:03

Tgt Ion:178 Resp: 895148
Ion Ratio Lower Upper
178 100
176 19.8 15.9 23.9
179 15.8 12.5 18.7





#72

Anthracene

Concen: 6.937 ng

RT: 11.339 min Scan# 1599

Delta R.T. -0.012 min

Lab File: BF132980.D

Acq: 21 Apr 2023 21:03

Instrument :

BNA_F

ClientSampleId :

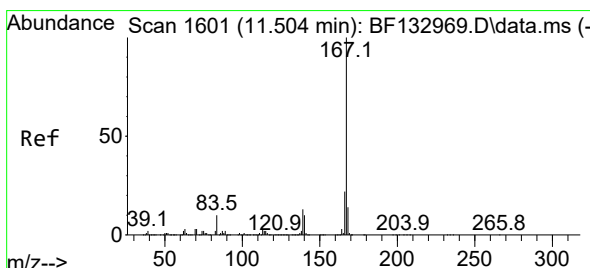
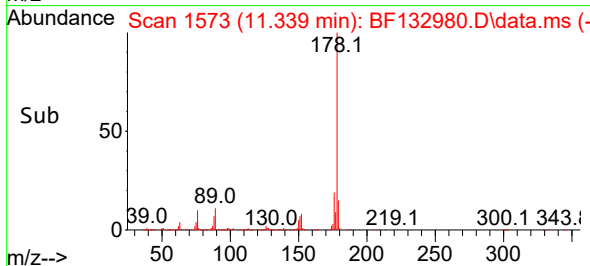
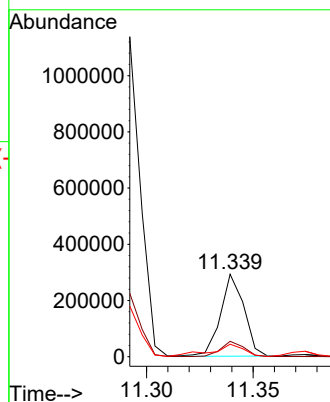
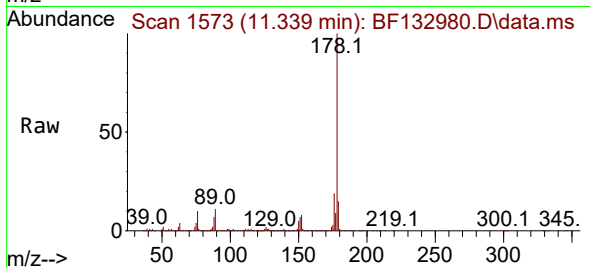
SB-27-8-10-20230411

Tgt Ion:178 Resp: 22385
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.4 23.0
 179 15.2 12.4 18.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/24/2023
 Supervised By :Jagrut Upadhyay 04/24/2023



#73

Carbazole

Concen: 4.175 ng

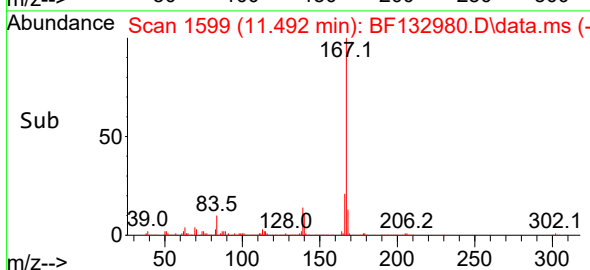
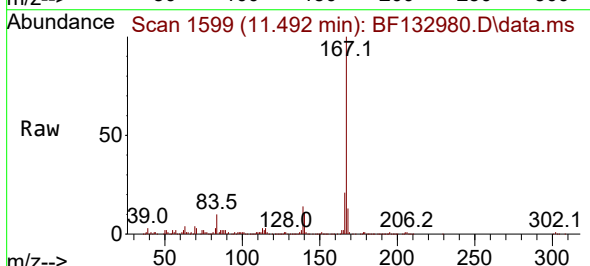
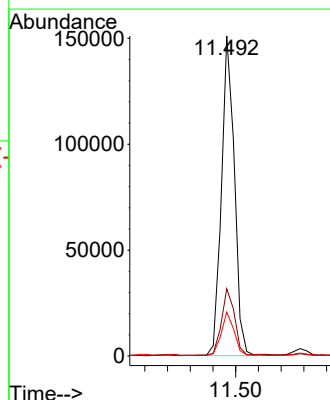
RT: 11.492 min Scan# 1599

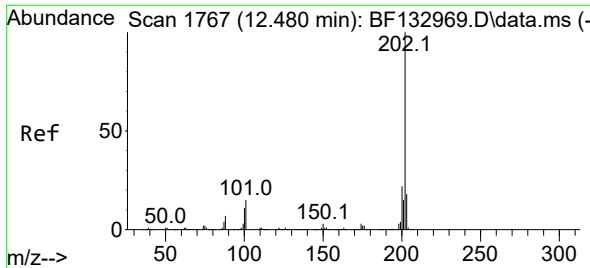
Delta R.T. -0.012 min

Lab File: BF132980.D

Acq: 21 Apr 2023 21:03

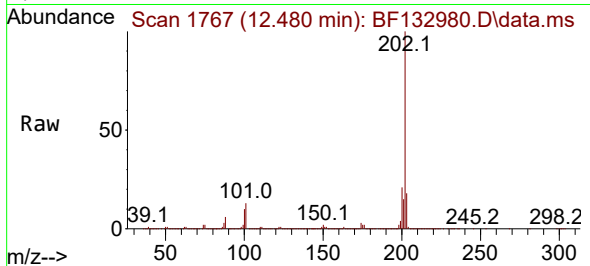
Tgt Ion:167 Resp: 119951
 Ion Ratio Lower Upper
 167 100
 166 21.0 17.4 26.0
 139 13.7 10.6 16.0





#75
Fluoranthene
Concen: 33.782 ng
RT: 12.480 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF132980.D
Acq: 21 Apr 2023 21:03

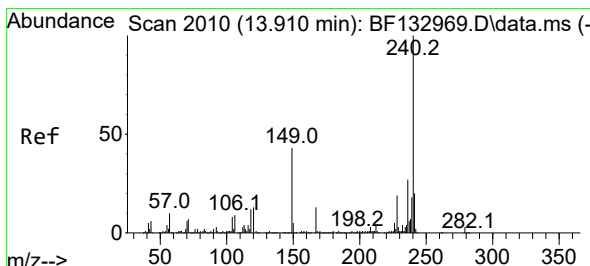
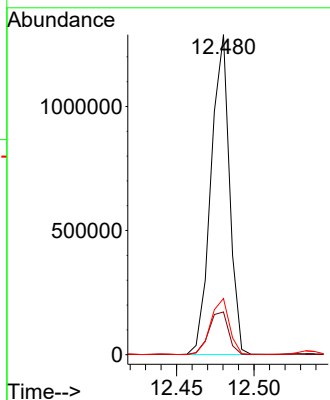
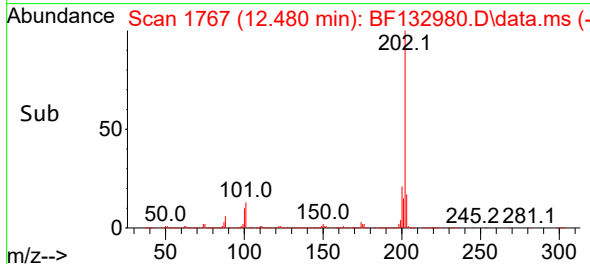
Instrument :
BNA_F
ClientSampleId :
SB-27-8-10-20230411



Tgt Ion:202 Resp: 106905
Ion Ratio Lower Upper
202 100
101 13.4 0.0 35.3
203 17.5 0.0 38.1

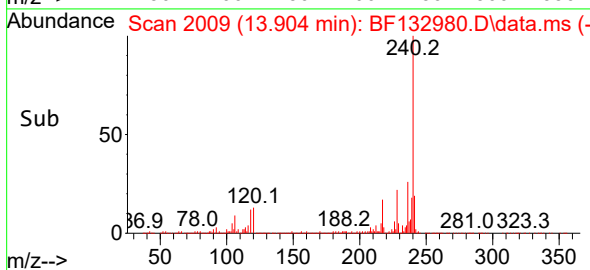
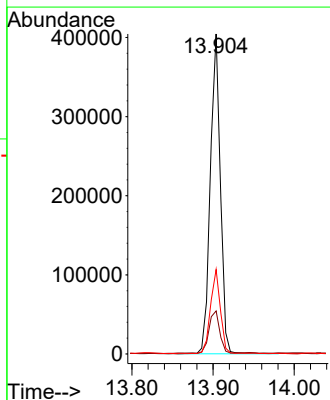
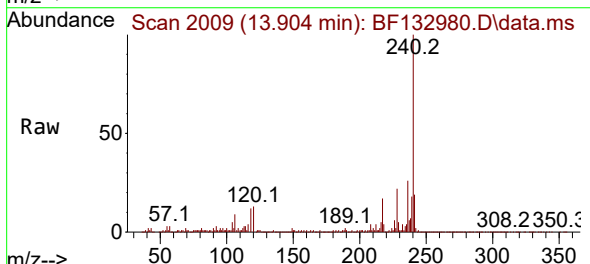
Manual Integrations
APPROVED

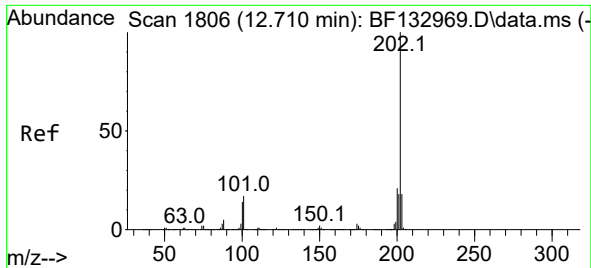
Reviewed By :Christian Giraldo 04/24/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.904 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF132980.D
Acq: 21 Apr 2023 21:03

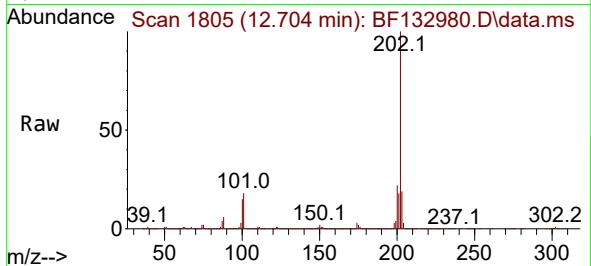
Tgt Ion:240 Resp: 345419
Ion Ratio Lower Upper
240 100
120 13.5 10.5 15.7
236 26.4 21.5 32.3





#78
Pyrene
Concen: 31.401 ng
RT: 12.704 min Scan# 1805
Delta R.T. -0.006 min
Lab File: BF132980.D
Acq: 21 Apr 2023 21:03

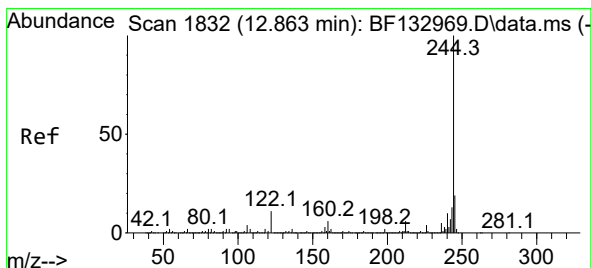
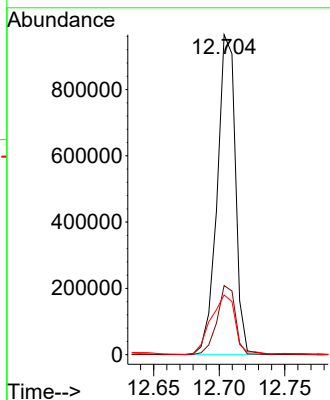
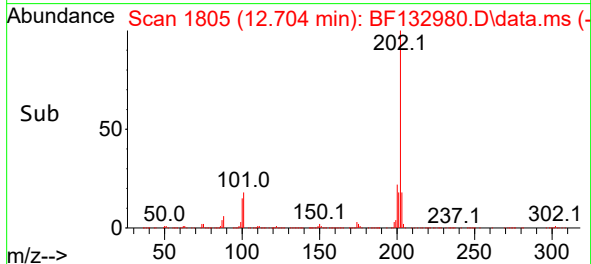
Instrument :
BNA_F
ClientSampleId :
SB-27-8-10-20230411



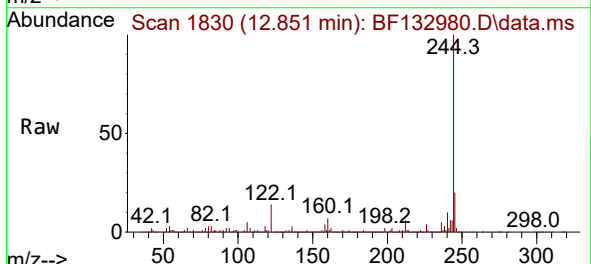
Tgt Ion:202 Resp: 929795
Ion Ratio Lower Upper
202 100
200 21.6 17.1 25.7
203 18.7 14.1 21.1

Manual Integrations
APPROVED

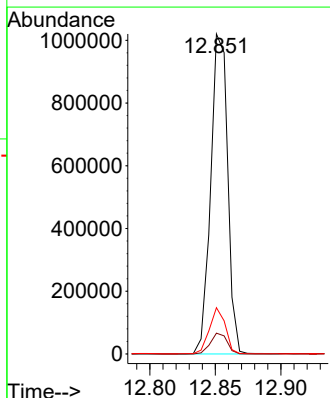
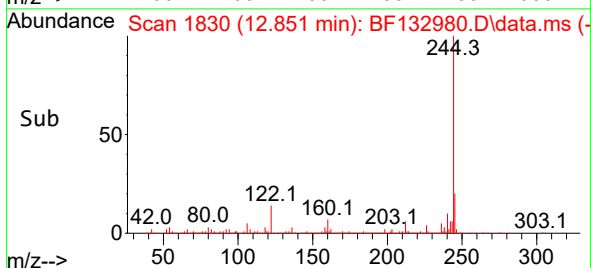
Reviewed By :Christian Giraldo 04/24/2023
Supervised By :Jagrut Upadhyay 04/24/2023

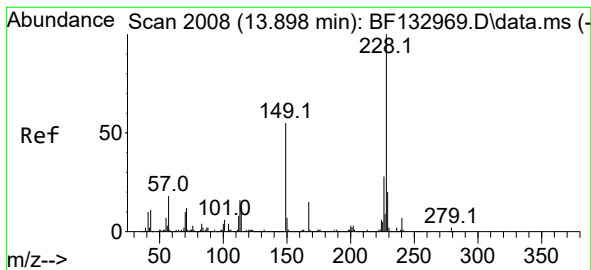


#79
Terphenyl-d14
Concen: 45.923 ng
RT: 12.851 min Scan# 1830
Delta R.T. -0.012 min
Lab File: BF132980.D
Acq: 21 Apr 2023 21:03



Tgt Ion:244 Resp: 919761
Ion Ratio Lower Upper
244 100
212 6.5 5.1 7.7
122 14.4 8.6 13.0#





#81

Benzo(a)anthracene

Concen: 20.637 ng

RT: 13.892 min Scan# 2008

Delta R.T. -0.006 min

Lab File: BF132980.D

Acq: 21 Apr 2023 21:03

Instrument :

BNA_F

ClientSampleId :

SB-27-8-10-20230411

Tgt Ion:228 Resp: 490198

Ion Ratio Lower Upper

228 100

226 28.1 22.2 33.4

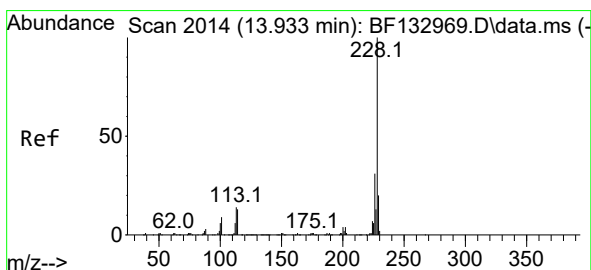
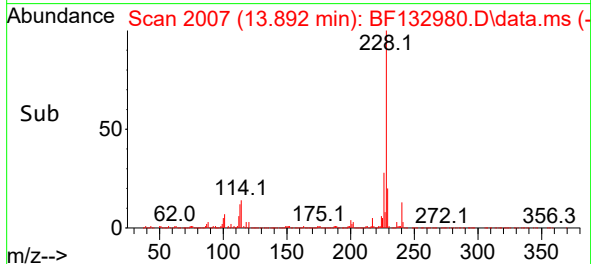
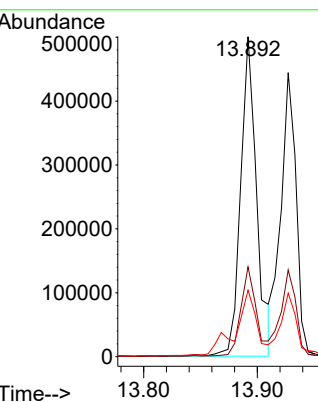
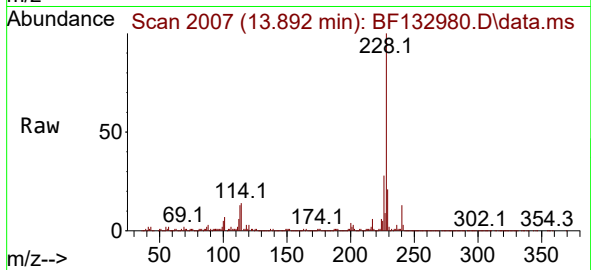
229 20.8 16.0 24.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/24/2023

Supervised By :Jagrut Upadhyay 04/24/2023



#83

Chrysene

Concen: 17.538 ng

RT: 13.927 min Scan# 2013

Delta R.T. -0.006 min

Lab File: BF132980.D

Acq: 21 Apr 2023 21:03

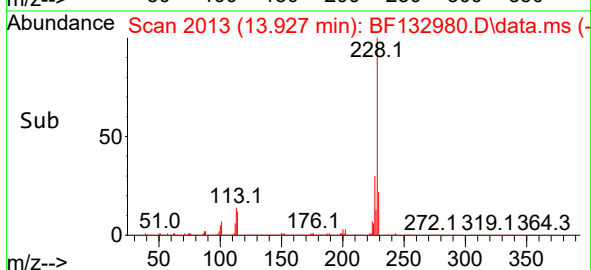
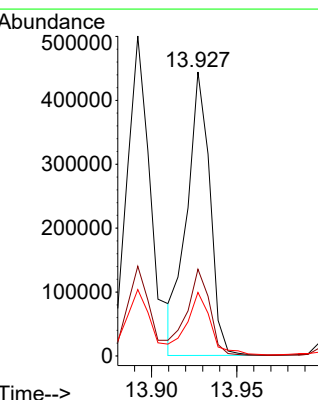
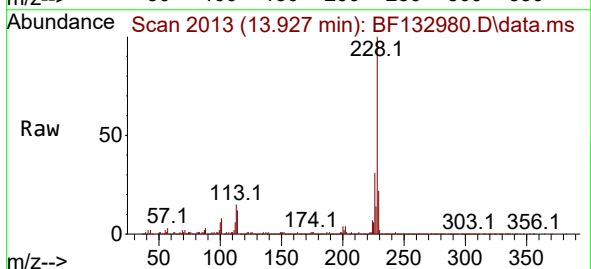
Tgt Ion:228 Resp: 416483

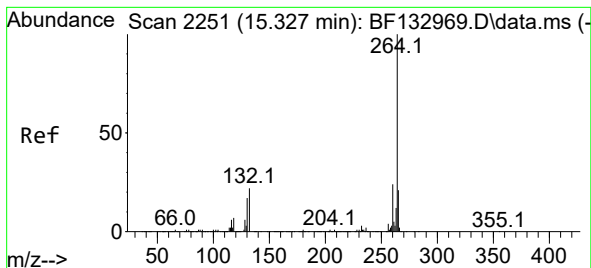
Ion Ratio Lower Upper

228 100

226 30.6 24.7 37.1

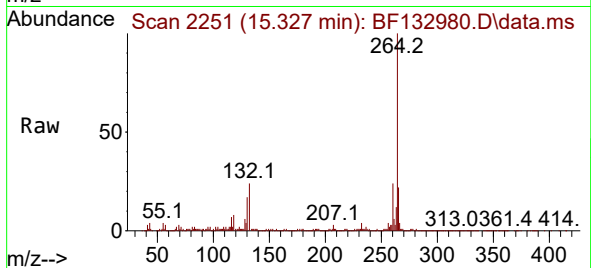
229 22.4 16.1 24.1





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.327 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF132980.D
Acq: 21 Apr 2023 21:03

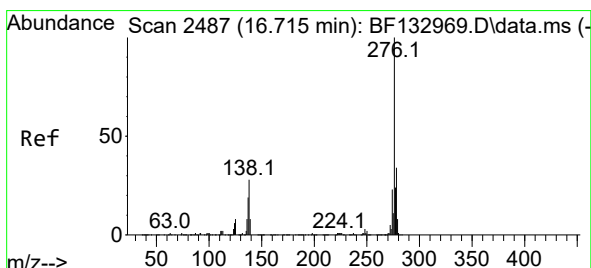
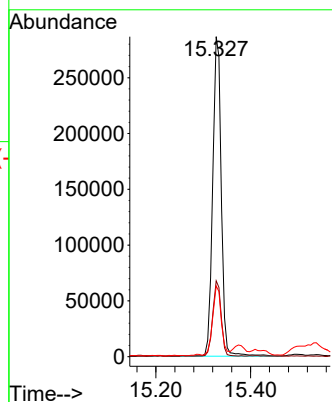
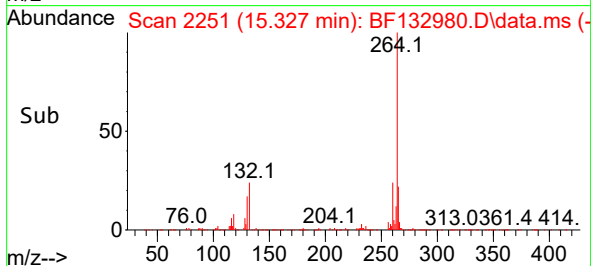
Instrument :
BNA_F
ClientSampleId :
SB-27-8-10-20230411



Tgt Ion:264 Resp: 361134
Ion Ratio Lower Upper
264 100
260 23.7 18.8 28.2
265 22.1 17.0 25.4

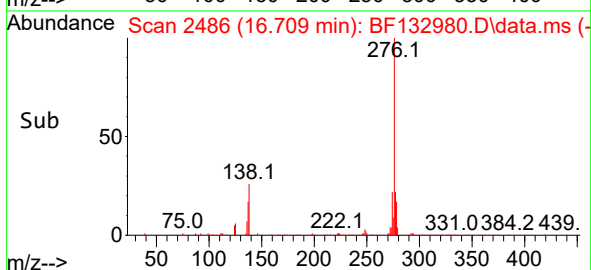
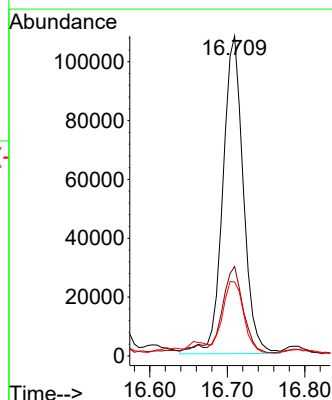
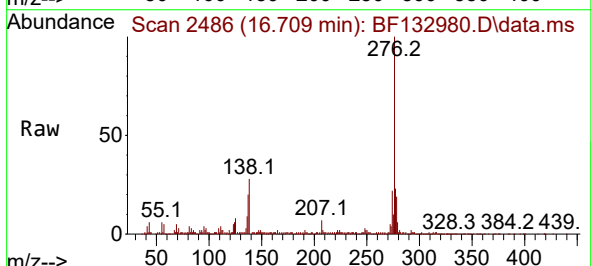
Manual Integrations
APPROVED

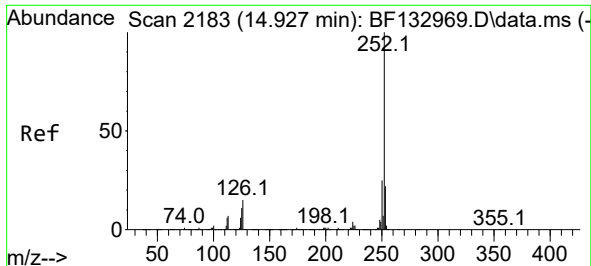
Reviewed By :Christian Giraldo 04/24/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 9.701 ng
RT: 16.709 min Scan# 2486
Delta R.T. -0.006 min
Lab File: BF132980.D
Acq: 21 Apr 2023 21:03

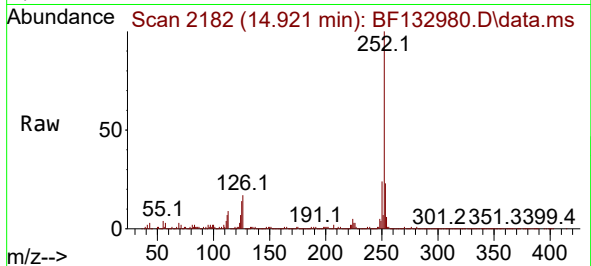
Tgt Ion:276 Resp: 199287
Ion Ratio Lower Upper
276 100
138 26.8 25.5 38.3
277 22.9 20.4 30.6





#88
Benzo(b)fluoranthene
Concen: 24.675 ng m
RT: 14.921 min Scan# 2183
Delta R.T. -0.006 min
Lab File: BF132980.D
Acq: 21 Apr 2023 21:03

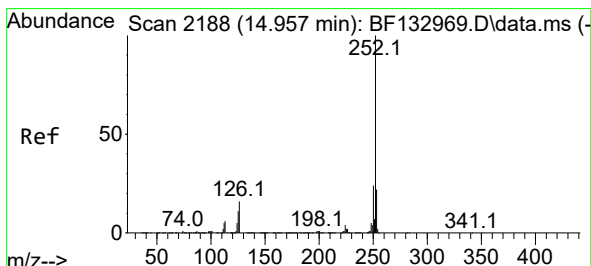
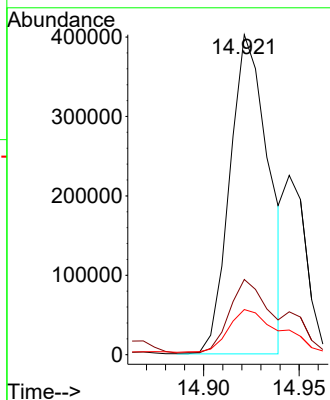
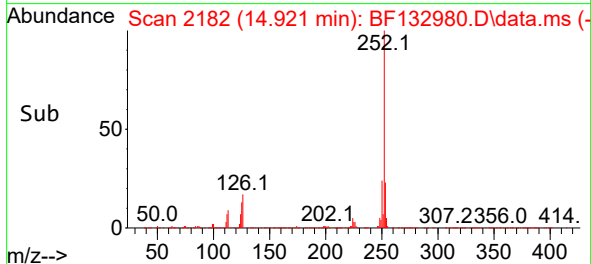
Instrument :
BNA_F
ClientSampleId :
SB-27-8-10-20230411



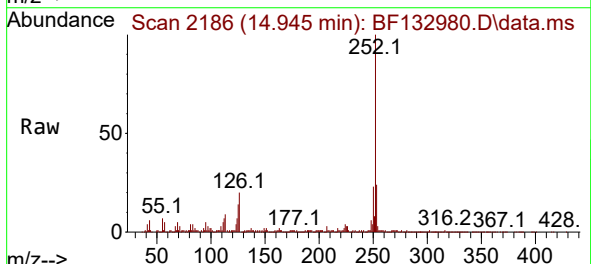
Tgt Ion:252 Resp: 56690
Ion Ratio Lower Upper
252 100
253 23.5 17.6 26.4
125 14.1 8.9 13.3

Manual Integrations
APPROVED

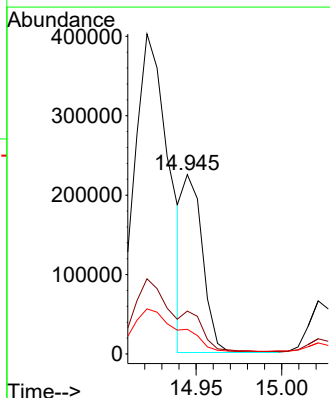
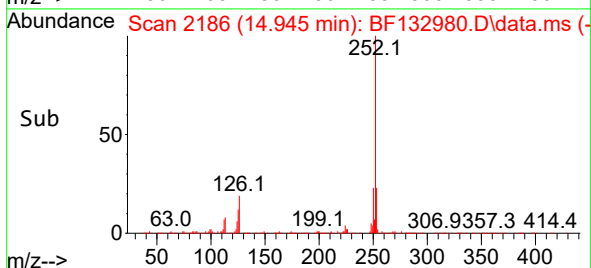
Reviewed By :Christian Giraldo 04/24/2023
Supervised By :Jagrut Upadhyay 04/24/2023

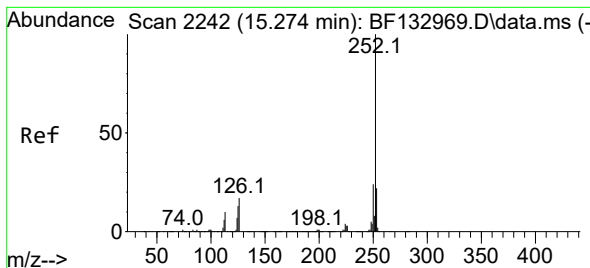


#89
Benzo(k)fluoranthene
Concen: 7.797 ng m
RT: 14.945 min Scan# 2186
Delta R.T. -0.012 min
Lab File: BF132980.D
Acq: 21 Apr 2023 21:03



Tgt Ion:252 Resp: 177576
Ion Ratio Lower Upper
252 100
253 23.9 17.7 26.5
125 13.8 9.0 13.4





#90

Benzo(a)pyrene

Concen: 17.333 ng

RT: 15.268 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF132980.D

Acq: 21 Apr 2023 21:03

Instrument :

BNA_F

ClientSampleId :

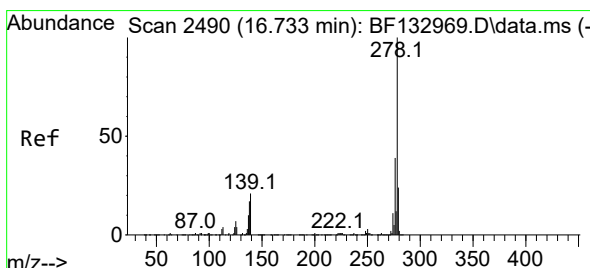
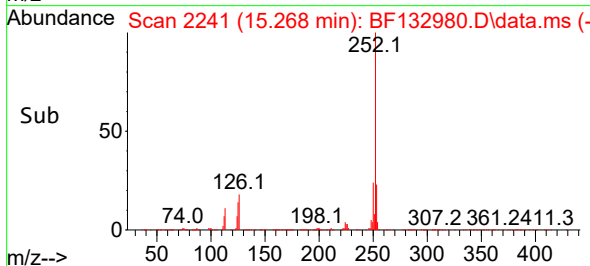
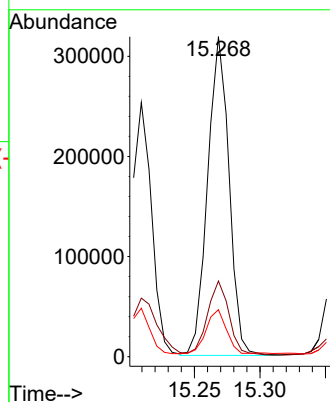
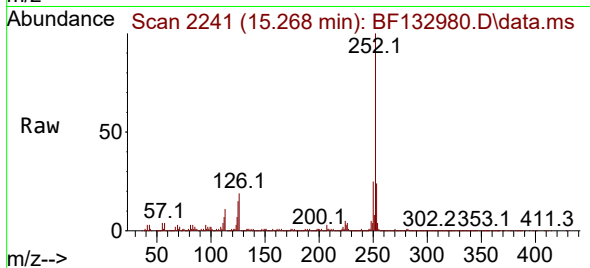
SB-27-8-10-20230411

Tgt Ion:	252	Resp:	36247
Ion Ratio	Lower	Upper	
252	100		
253	23.7	17.7	26.5
125	14.7	10.5	15.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/24/2023
Supervised By :Jagrut Upadhyay 04/24/2023



#91

Dibenzo(a,h)anthracene

Concen: 3.189 ng

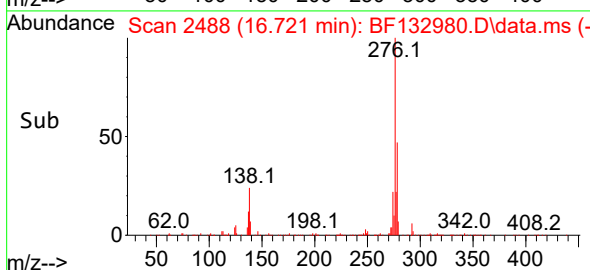
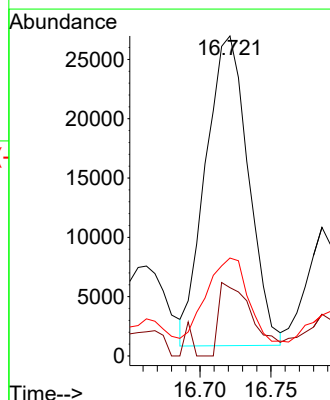
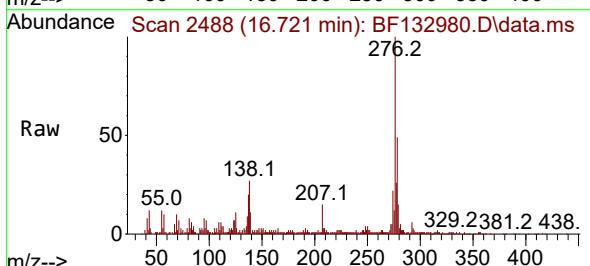
RT: 16.721 min Scan# 2488

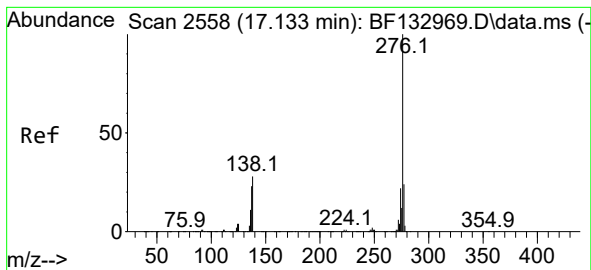
Delta R.T. -0.012 min

Lab File: BF132980.D

Acq: 21 Apr 2023 21:03

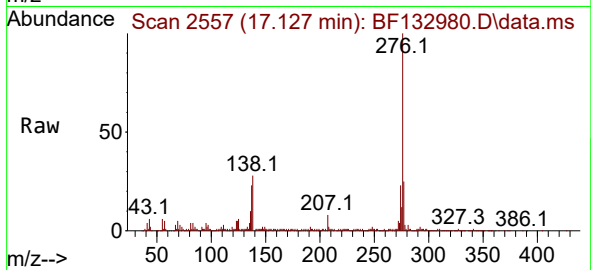
Tgt Ion:	278	Resp:	54632
Ion Ratio	Lower	Upper	
278	100		
139	21.3	16.6	24.8
279	30.6	18.8	28.2





#92
 Benzo(g,h,i)perylene
 Concen: 10.764 ng
 RT: 17.127 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BF132980.D
 Acq: 21 Apr 2023 21:03

Instrument :
 BNA_F
 ClientSampleId :
 SB-27-8-10-20230411



Tgt Ion: 276 Resp: 182075
 Ion Ratio Lower Upper
 276 100
 277 25.1 19.4 29.0
 138 27.5 22.7 34.1

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 04/24/2023
 Supervised By : Jagrut Upadhyay 04/24/2023

