

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF113022\
 Data File : BF131481.D
 Acq On : 30 Nov 2022 20:33
 Operator : CG\JU
 Sample : N5789-04
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-1

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 12/01/2022
 Supervised By : Jagrut Upadhyay 12/01/2022

Quant Time: Dec 01 01:15:41 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112122.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 01 01:09:58 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.945	152	96525	20.000	ng	0.00
21) Naphthalene-d8	8.239	136	334583	20.000	ng	0.00
39) Acenaphthene-d10	10.004	164	185793	20.000	ng	0.00
64) Phenanthrene-d10	11.504	188	290553	20.000	ng	0.00
76) Chrysene-d12	14.157	240	181872	20.000	ng	# 0.00
86) Perylene-d12	15.692	264	251887	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	454948	89.704	ng	0.00
7) Phenol-d6	6.569	99	621761	96.086	ng	0.00
23) Nitrobenzene-d5	7.510	82	384291	57.898	ng	0.00
42) 2,4,6-Tribromophenol	10.798	330	154439	98.804	ng	0.00
45) 2-Fluorobiphenyl	9.316	172	685688	53.692	ng	0.00
79) Terphenyl-d14	13.098	244	575660	51.759	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.263	128	951150	53.346	ng	99
37) 2-Methylnaphthalene	8.957	142	423730	35.075	ng	99
38) 1-Methylnaphthalene	9.057	142	291276	24.864	ng	100
49) Acenaphthylene	9.863	152	38166	2.201	ng	# 92
52) Acenaphthene	10.034	154	64120	5.906	ng	99
55) Dibenzofuran	10.204	168	55617	3.561	ng	# 87
58) Fluorene	10.551	166	119167	9.776	ng	99
71) Phenanthrene	11.528	178	598676	38.126	ng	99
72) Anthracene	11.575	178	134657	8.726	ng	99
73) Carbazole	11.733	167	37759	2.868	ng	# 86
75) Fluoranthene	12.733	202	407919	24.653	ng	100
78) Pyrene	12.957	202	544577	33.938	ng	99
81) Benzo(a)anthracene	14.145	228	236371	18.961	ng	95
83) Chrysene	14.186	228	230737	18.865	ng	98
87) Indeno(1,2,3-cd)pyrene	17.257	276	139562	8.249	ng	99
88) Benzo(b)fluoranthene	15.233	252	325352m	19.443	ng	
89) Benzo(k)fluoranthene	15.263	252	81167m	4.720	ng	
90) Benzo(a)pyrene	15.627	252	279854	20.382	ng	# 98
91) Dibenzo(a,h)anthracene	17.262	278	41684	2.984	ng	# 84
92) Benzo(g,h,i)perylene	17.727	276	138238	9.916	ng	96

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

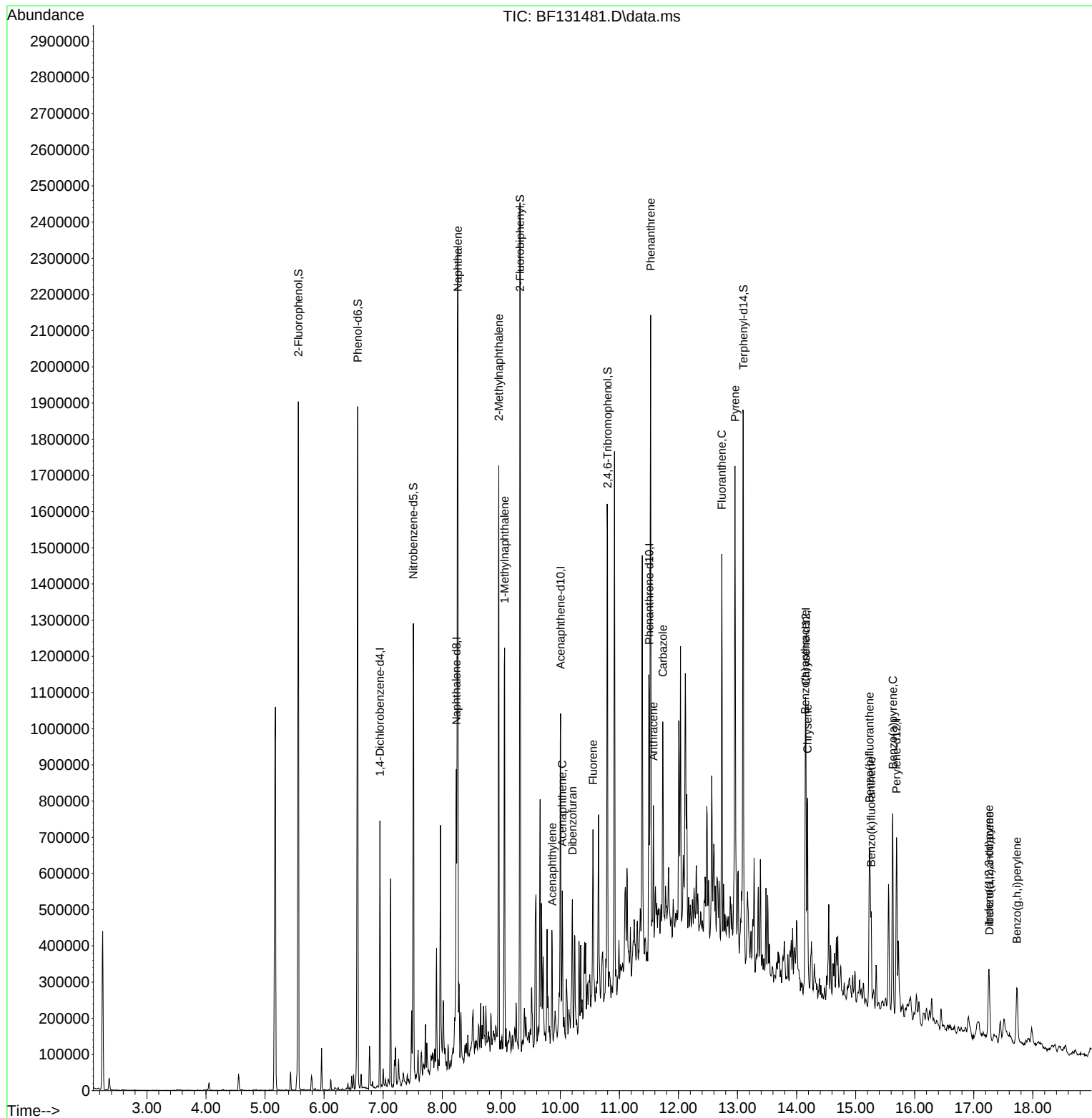
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF113022\
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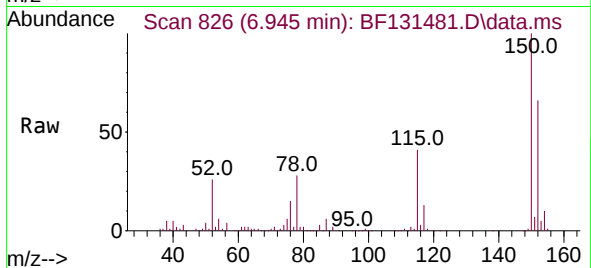
Reviewed By : Christian Giraldo 12/01/2022
Supervised By : Jagrut Upadhyay 12/01/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.945 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33

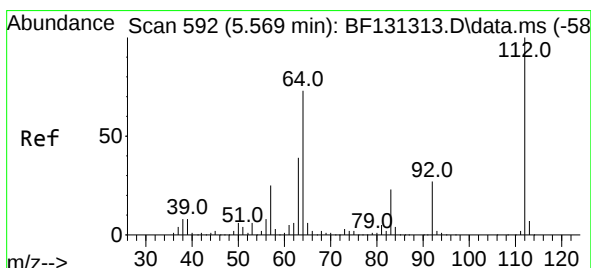
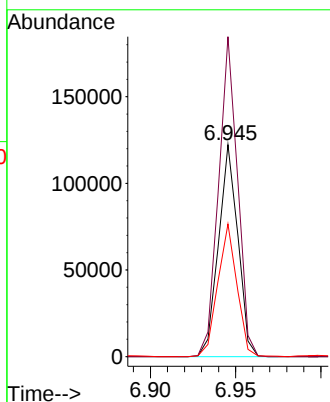
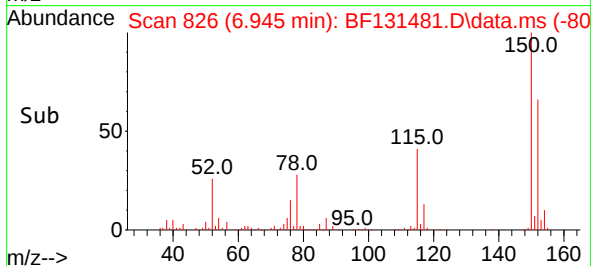
Instrument :
BNA_F
ClientSampleId :
SP-1



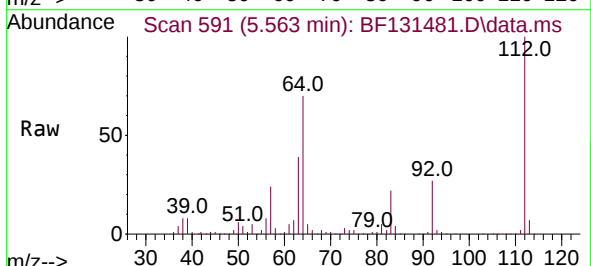
Tgt Ion:152 Resp: 96525
Ion Ratio Lower Upper
152 100
150 151.1 117.8 176.8
115 62.6 47.1 70.7

Manual Integrations
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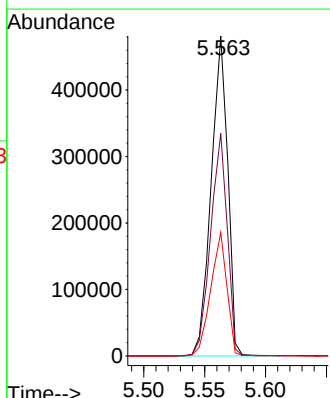
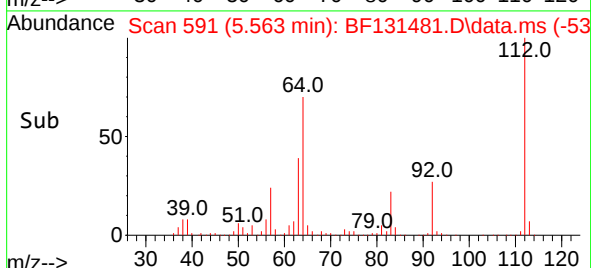
Reviewed By :Christian Giraldo 12/01/2022
Supervised By :Jagrut Upadhyay 12/01/2022



#5
2-Fluorophenol
Concen: 89.704 ng
RT: 5.563 min Scan# 591
Delta R.T. 0.006 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33



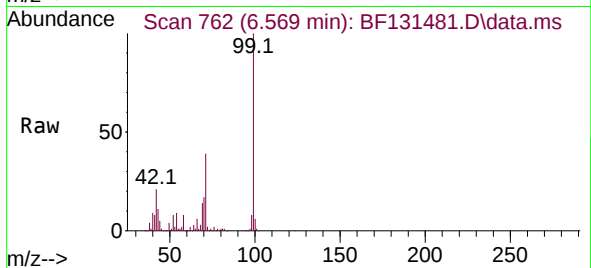
Tgt Ion:112 Resp: 454948
Ion Ratio Lower Upper
112 100
64 69.5 58.6 88.0
63 38.6 31.4 47.0





#7
Phenol-d6
Concen: 96.086 ng
RT: 6.569 min Scan# 70
Delta R.T. 0.000 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33

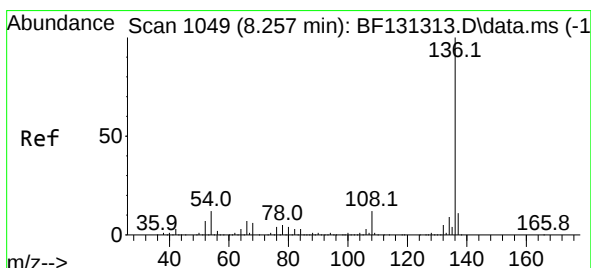
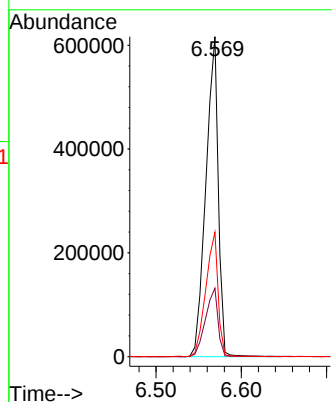
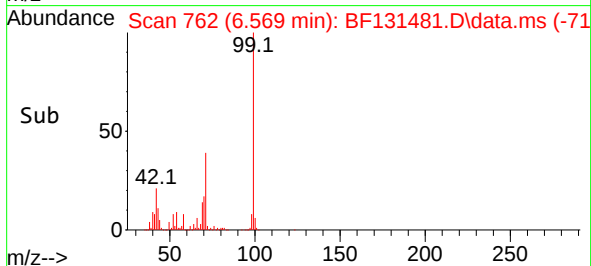
Instrument :
BNA_F
ClientSampleId :
SP-1



Tgt Ion: 99 Resp: 621761
Ion Ratio Lower Upper
99 100
42 21.4 19.4 29.2
71 38.9 32.3 48.5

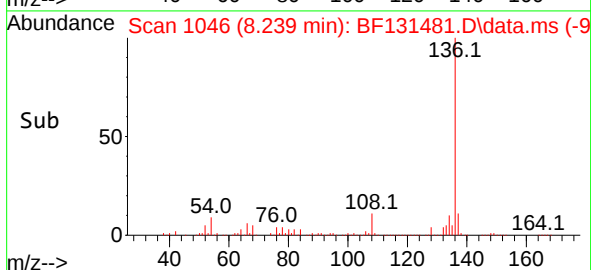
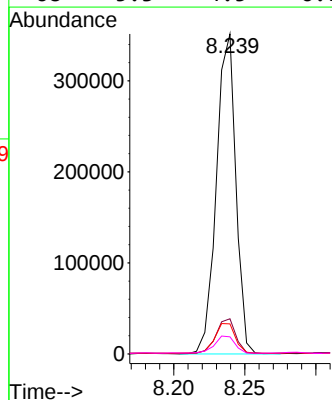
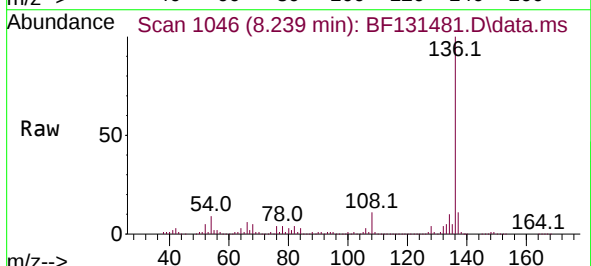
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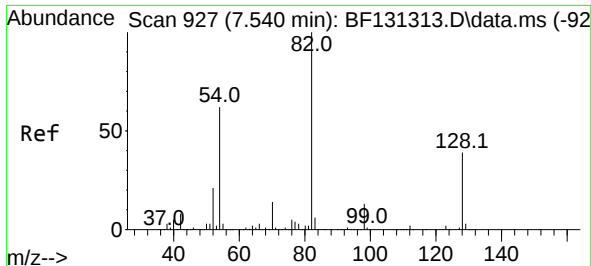
Reviewed By :Christian Giraldo 12/01/2022
Supervised By :Jagrut Upadhyay 12/01/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.239 min Scan# 1046
Delta R.T. 0.000 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33

Tgt Ion:136 Resp: 334583
Ion Ratio Lower Upper
136 100
137 11.0 9.0 13.6
54 9.4 9.4 14.0
68 5.3 4.5 6.7





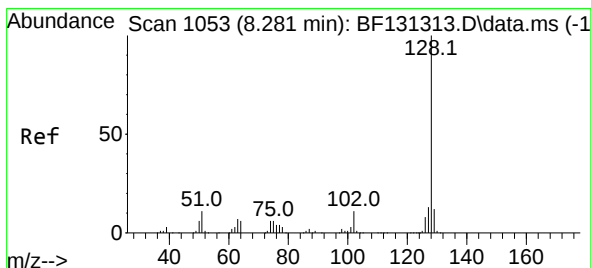
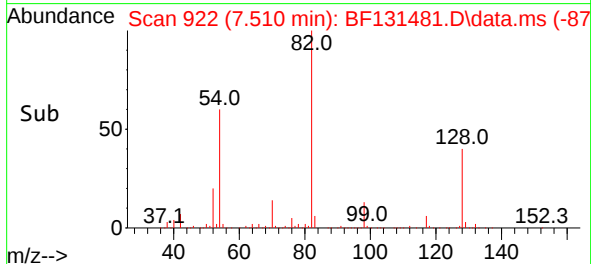
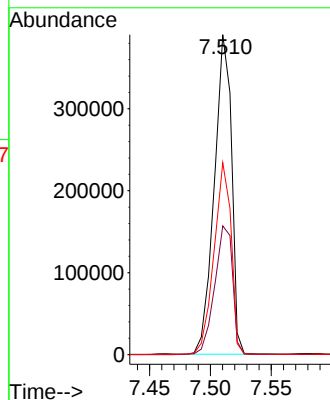
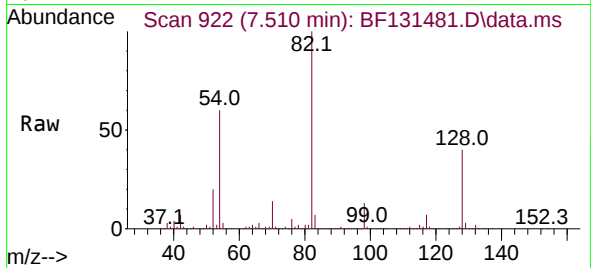
#23
Nitrobenzene-d5
Concen: 57.898 ng
RT: 7.510 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33

Instrument :
BNA_F
ClientSampleId :
SP-1

Tgt Ion: 82 Resp: 384291
Ion Ratio Lower Upper
82 100
128 40.2 31.4 47.0
54 60.0 49.8 74.6

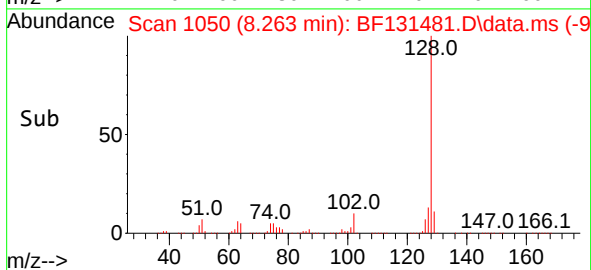
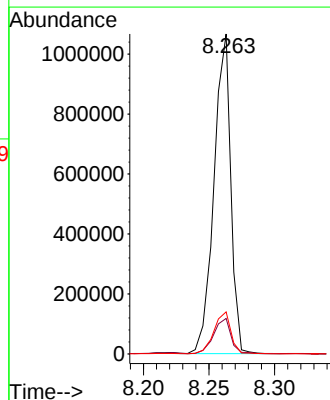
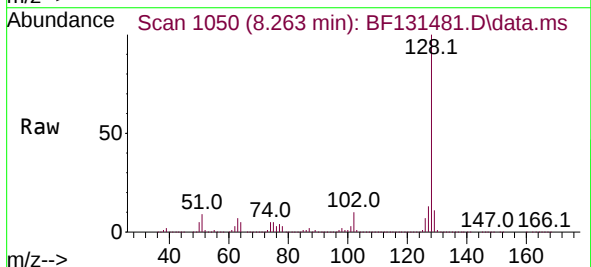
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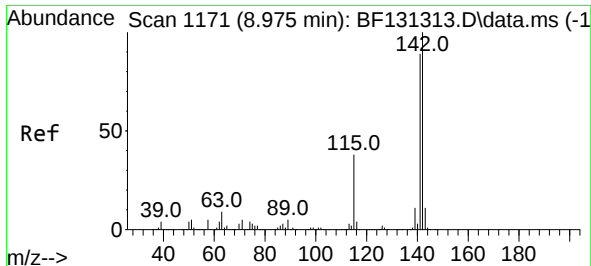
Reviewed By :Christian Giraldo 12/01/2022
Supervised By :Jagrut Upadhyay 12/01/2022



#31
Naphthalene
Concen: 53.346 ng
RT: 8.263 min Scan# 1050
Delta R.T. 0.000 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33

Tgt Ion:128 Resp: 951150
Ion Ratio Lower Upper
128 100
129 11.1 9.2 13.8
127 13.1 10.6 16.0





#37

2-Methylnaphthalene

Concen: 35.075 ng

RT: 8.957 min Scan# 1168

Delta R.T. 0.000 min

Lab File: BF131481.D

Acq: 30 Nov 2022 20:33

Instrument :

BNA_F

ClientSampleId :

SP-1

Tgt Ion:142 Resp: 423730

Ion Ratio Lower Upper

142 100

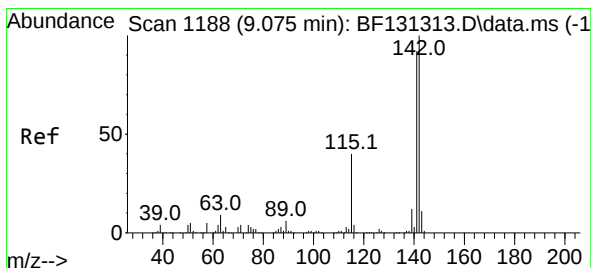
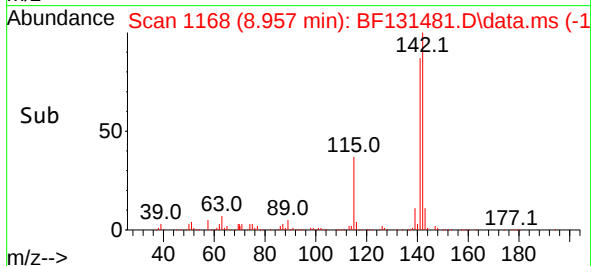
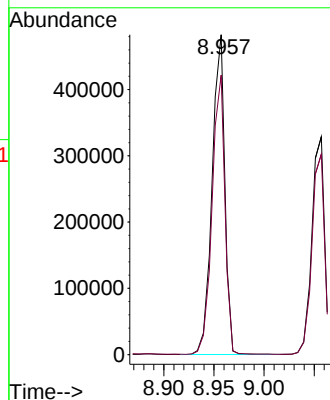
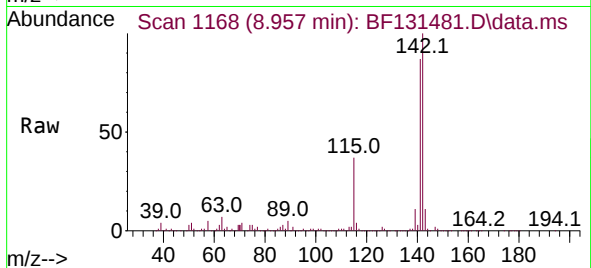
141 87.3 71.0 106.4

Manual Integrations

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Reviewed By :Christian Giraldo 12/01/2022

Supervised By :Jagrut Upadhyay 12/01/2022



#38

1-Methylnaphthalene

Concen: 24.864 ng

RT: 9.057 min Scan# 1185

Delta R.T. 0.000 min

Lab File: BF131481.D

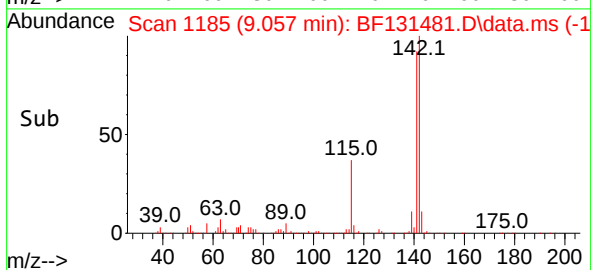
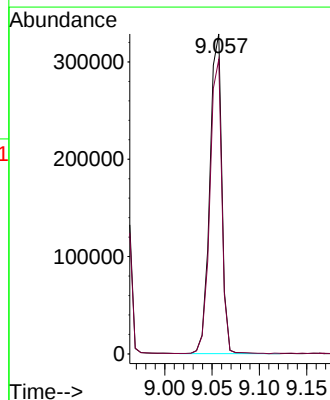
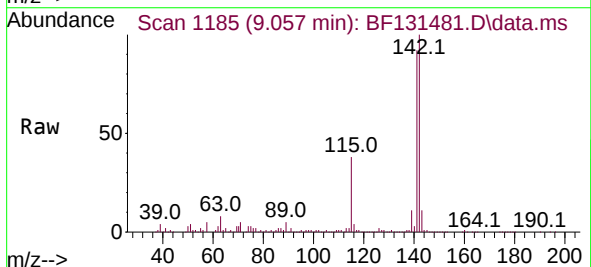
Acq: 30 Nov 2022 20:33

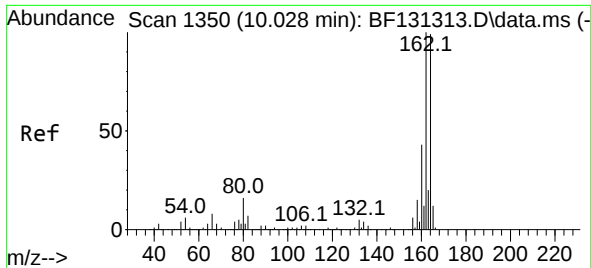
Tgt Ion:142 Resp: 291276

Ion Ratio Lower Upper

142 100

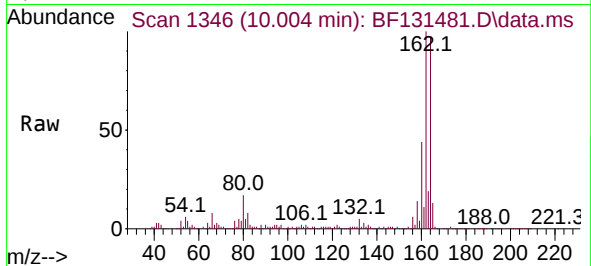
141 92.0 73.4 110.0





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.004 min Scan# 1350
Delta R.T. 0.000 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33

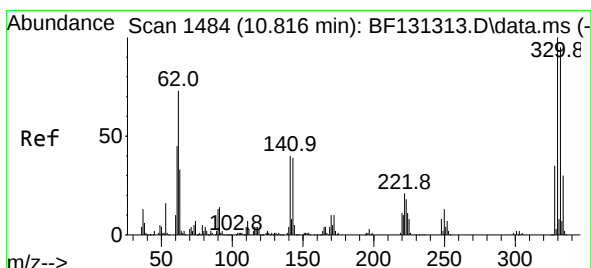
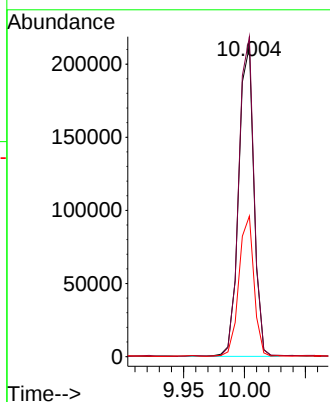
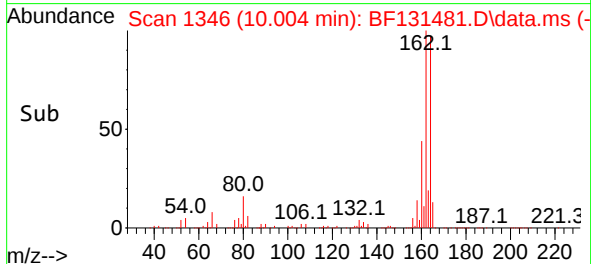
Instrument :
BNA_F
ClientSampleId :
SP-1



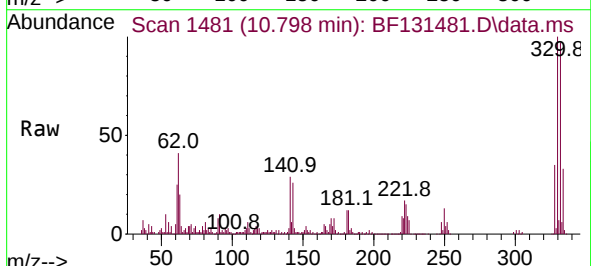
Tgt Ion:164 Resp: 185793
Ion Ratio Lower Upper
164 100
162 103.1 80.6 120.8
160 45.3 34.4 51.6

Manual Integrations
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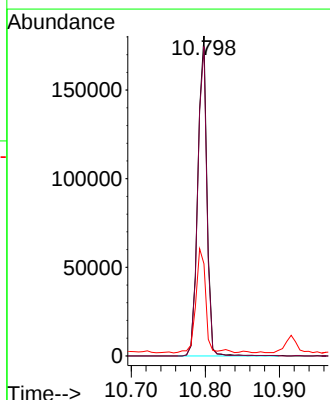
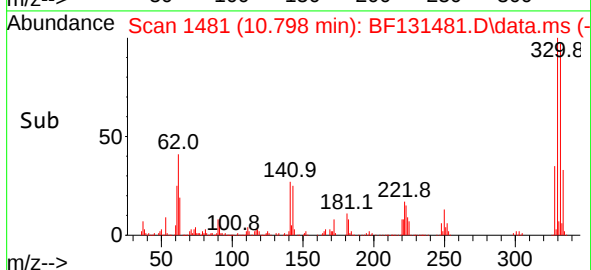
Reviewed By :Christian Giraldo 12/01/2022
Supervised By :Jagrut Upadhyay 12/01/2022

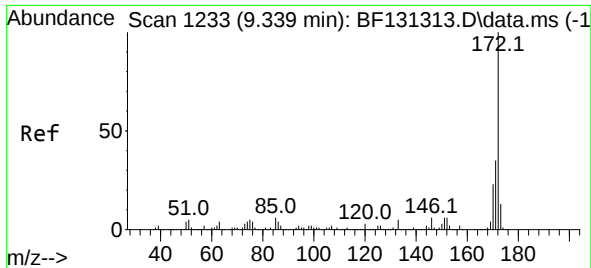


#42
2,4,6-Tribromophenol
Concen: 98.804 ng
RT: 10.798 min Scan# 1481
Delta R.T. 0.000 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33



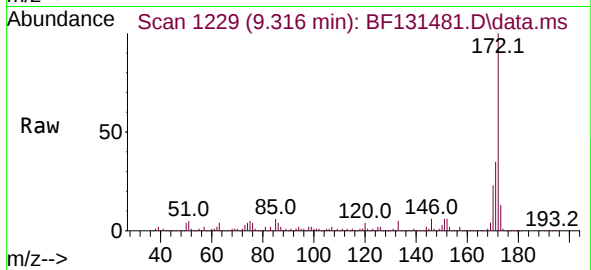
Tgt Ion:330 Resp: 154439
Ion Ratio Lower Upper
330 100
332 96.6 77.5 116.3
141 34.7 29.3 43.9





#45
2-Fluorobiphenyl
Concen: 53.692 ng
RT: 9.316 min Scan# 1229
Delta R.T. -0.006 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33

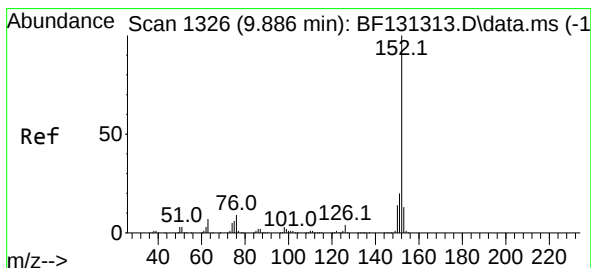
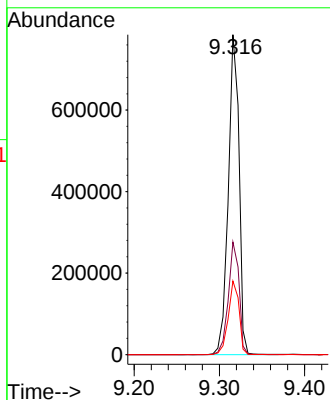
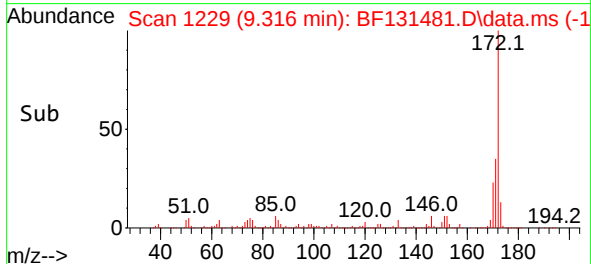
Instrument :
BNA_F
ClientSampleId :
SP-1



Tgt Ion:172 Resp: 685688
Ion Ratio Lower Upper
172 100
171 35.2 28.2 42.2
170 23.0 18.7 28.1

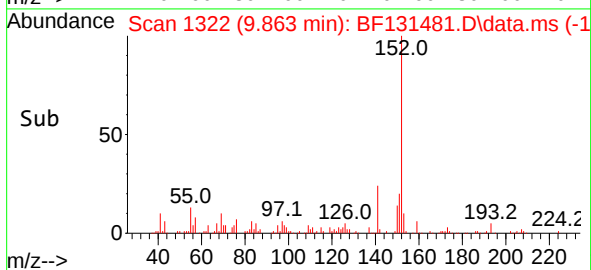
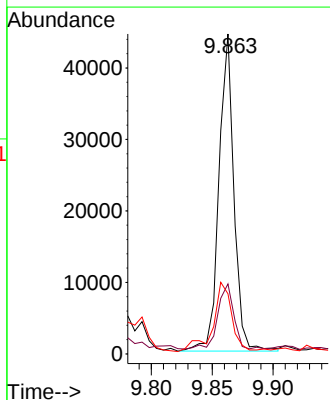
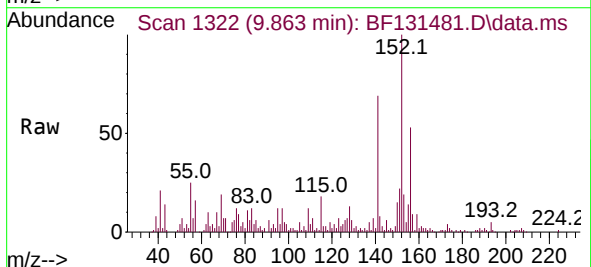
Manual Integrations
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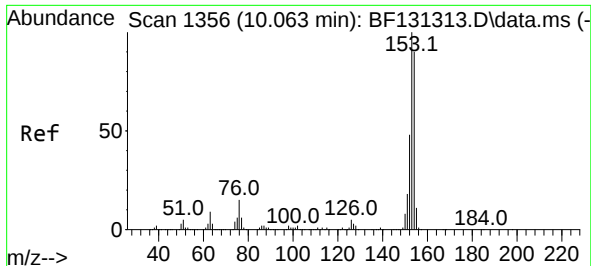
Reviewed By :Christian Giraldo 12/01/2022
Supervised By :Jagrut Upadhyay 12/01/2022



#49
Acenaphthylene
Concen: 2.201 ng
RT: 9.863 min Scan# 1322
Delta R.T. -0.006 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33

Tgt Ion:152 Resp: 38166
Ion Ratio Lower Upper
152 100
151 21.9 16.2 24.4
153 18.8 10.6 15.8#





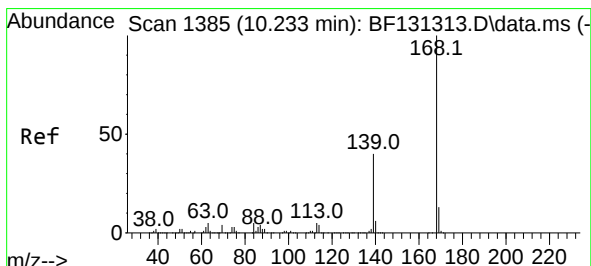
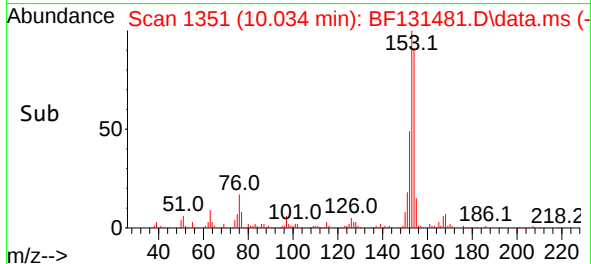
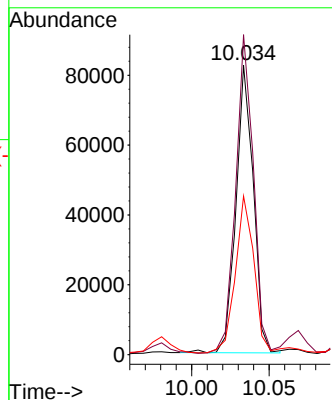
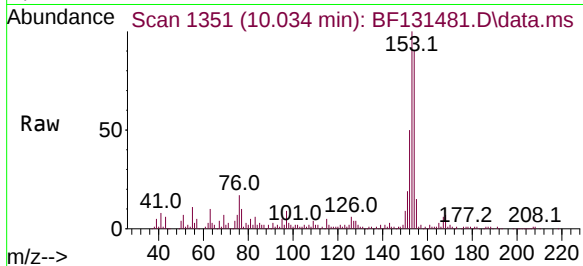
#52
Acenaphthene
Concen: 5.906 ng
RT: 10.034 min Scan# 1356
Delta R.T. -0.006 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33

Instrument :
BNA_F
ClientSampleId :
SP-1

Tgt Ion:154 Resp: 64120
Ion Ratio Lower Upper
154 100
153 110.6 88.4 132.6
152 54.8 42.8 64.2

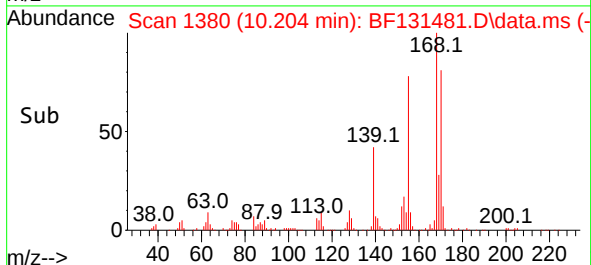
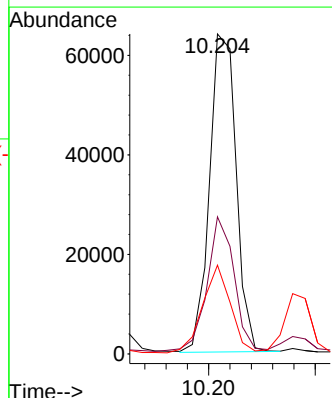
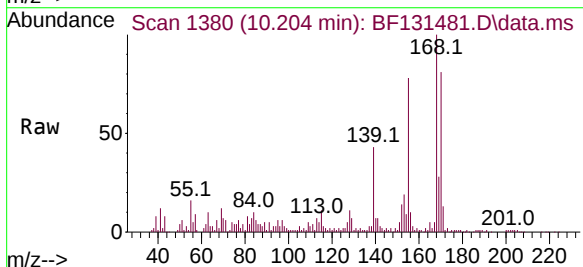
Manual Integrations
APPROVED

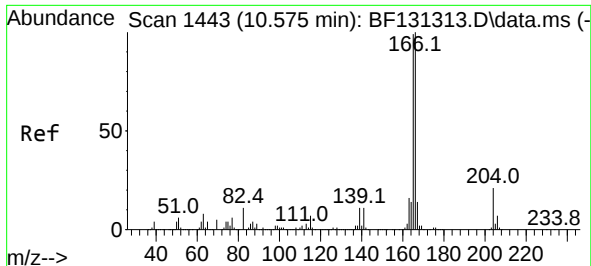
Reviewed By :Christian Giraldo 12/01/2022
Supervised By :Jagrut Upadhyay 12/01/2022



#55
Dibenzofuran
Concen: 3.561 ng
RT: 10.204 min Scan# 1380
Delta R.T. -0.006 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33

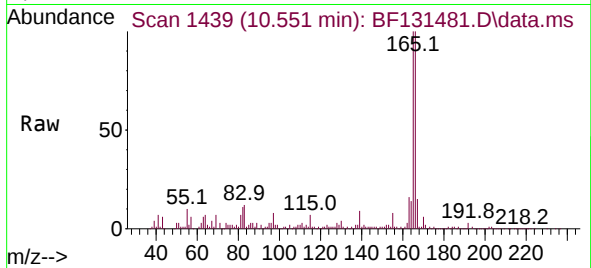
Tgt Ion:168 Resp: 55617
Ion Ratio Lower Upper
168 100
139 42.8 31.7 47.5
169 27.7 10.6 15.8#





#58
Fluorene
Concen: 9.776 ng
RT: 10.551 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33

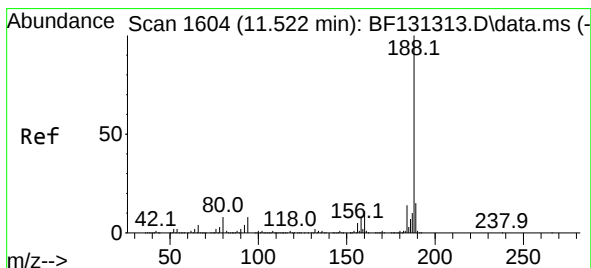
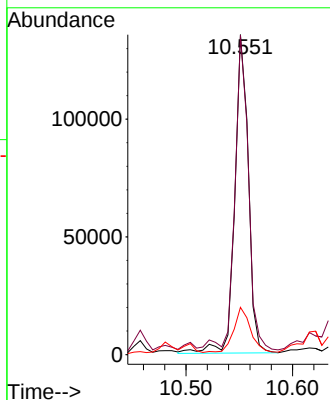
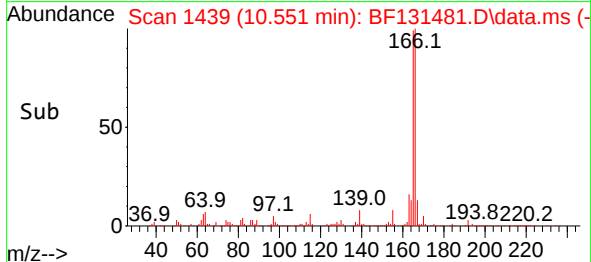
Instrument :
BNA_F
ClientSampleId :
SP-1



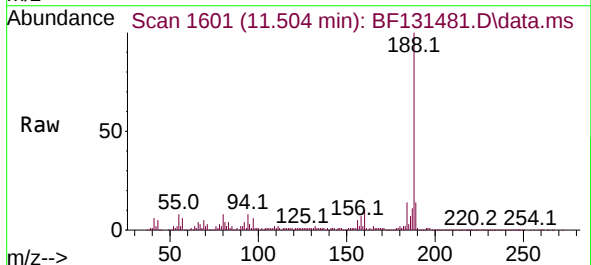
Tgt Ion:166 Resp: 11916
Ion Ratio Lower Upper
166 100
165 99.7 79.0 118.4
167 14.8 10.9 16.3

Manual Integrations
APPROVED

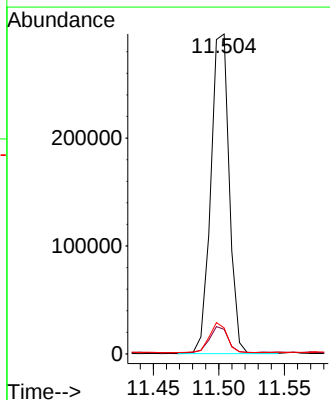
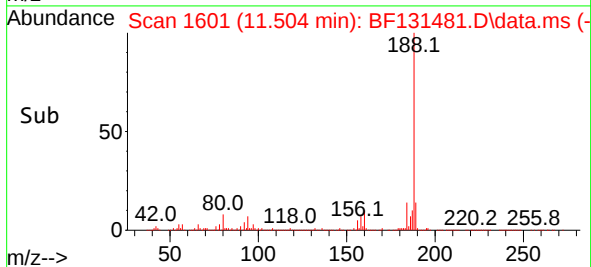
Reviewed By :Christian Giraldo 12/01/2022
Supervised By :Jagrut Upadhyay 12/01/2022

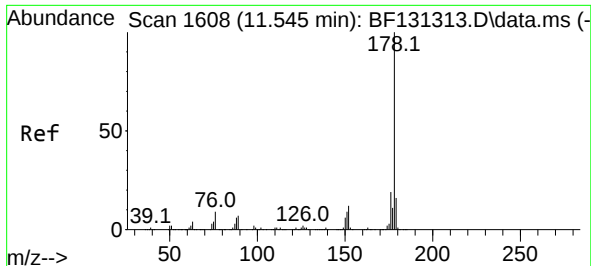


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.504 min Scan# 1601
Delta R.T. 0.000 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33



Tgt Ion:188 Resp: 290553
Ion Ratio Lower Upper
188 100
94 7.7 6.3 9.5
80 8.1 6.8 10.2





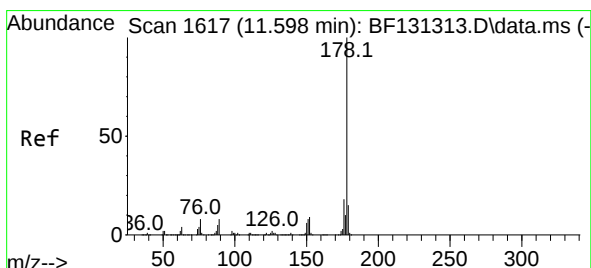
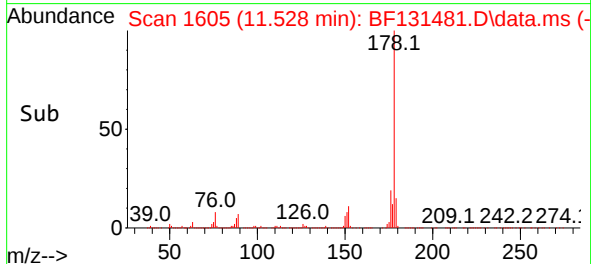
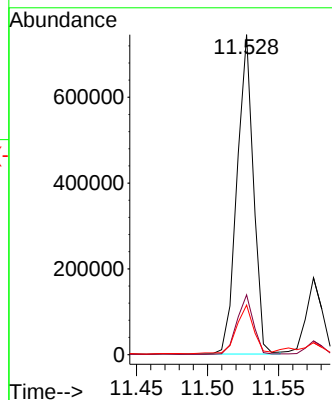
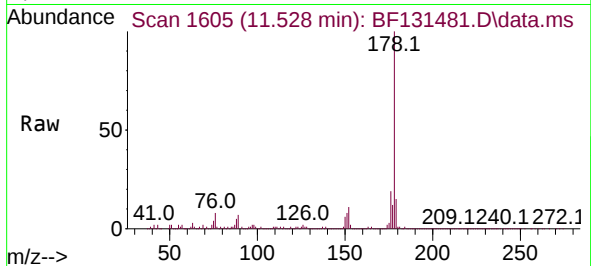
#71
Phenanthrene
Concen: 38.126 ng
RT: 11.528 min Scan# 1605
Delta R.T. 0.000 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33

Instrument :
BNA_F
ClientSampleId :
SP-1

Tgt Ion:178 Resp: 598676
Ion Ratio Lower Upper
178 100
176 18.7 15.6 23.4
179 15.5 12.4 18.6

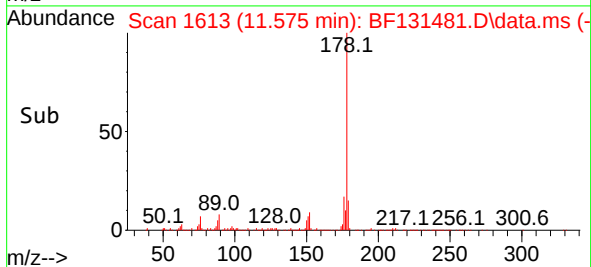
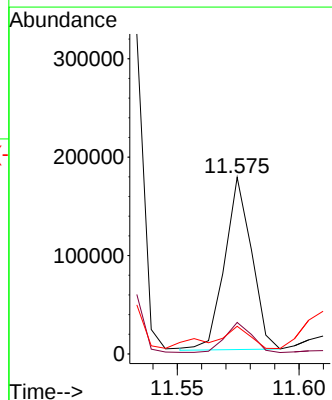
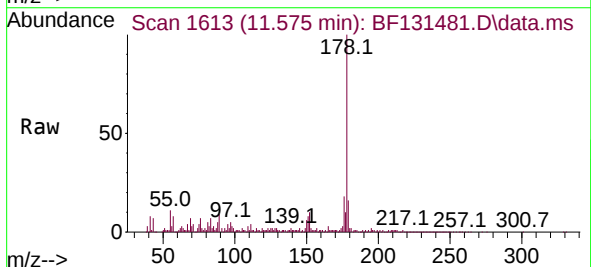
Manual Integrations
APPROVED

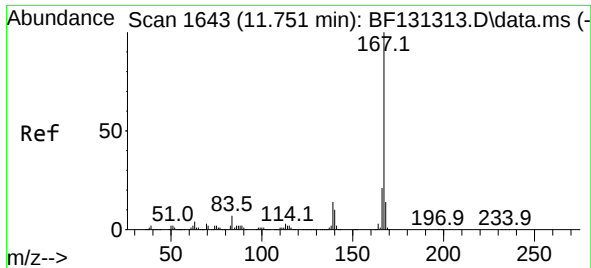
Reviewed By :Christian Giraldo 12/01/2022
Supervised By :Jagrut Upadhyay 12/01/2022



#72
Anthracene
Concen: 8.726 ng
RT: 11.575 min Scan# 1613
Delta R.T. -0.006 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33

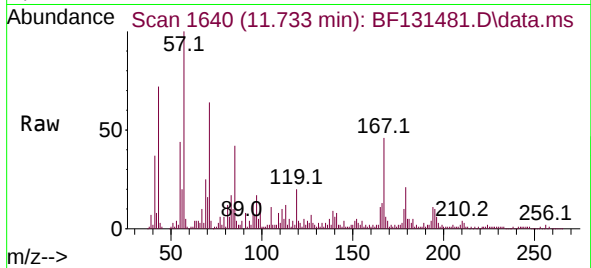
Tgt Ion:178 Resp: 134657
Ion Ratio Lower Upper
178 100
176 17.8 14.7 22.1
179 15.6 12.2 18.4





#73
 Carbazole
 Concen: 2.868 ng
 RT: 11.733 min Scan# 1640
 Delta R.T. 0.000 min
 Lab File: BF131481.D
 Acq: 30 Nov 2022 20:33

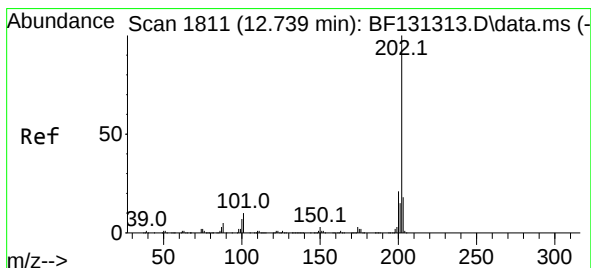
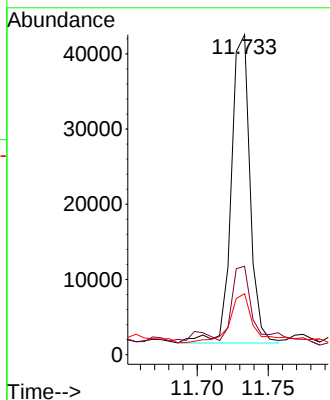
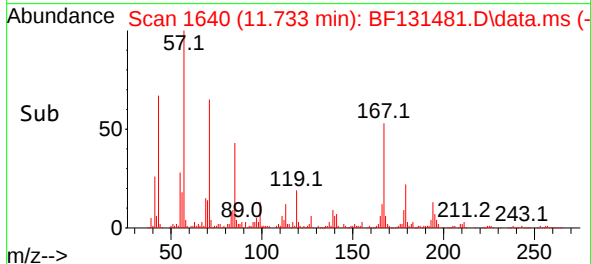
Instrument :
 BNA_F
 ClientSampleId :
 SP-1



Tgt Ion:167 Resp: 37759
 Ion Ratio Lower Upper
 167 100
 166 27.6 17.0 25.6
 139 19.0 10.8 16.2

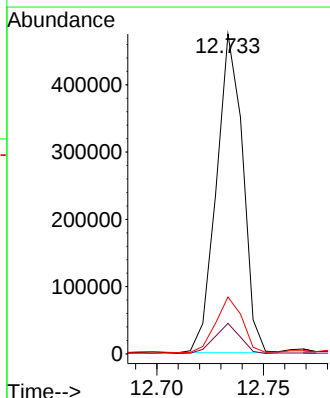
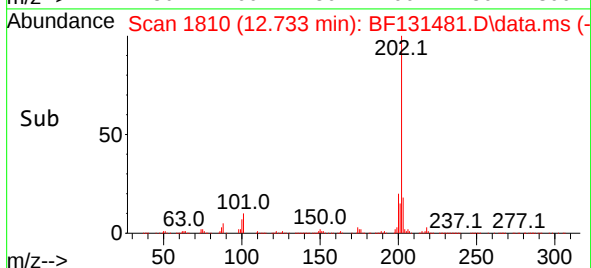
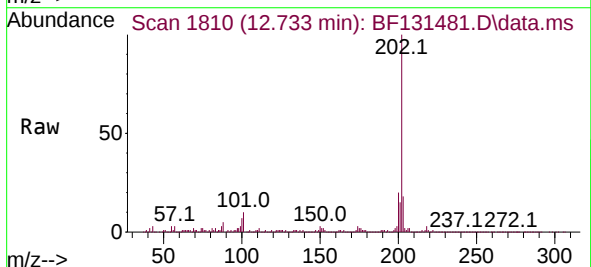
Manual Integrations
 APPROVED

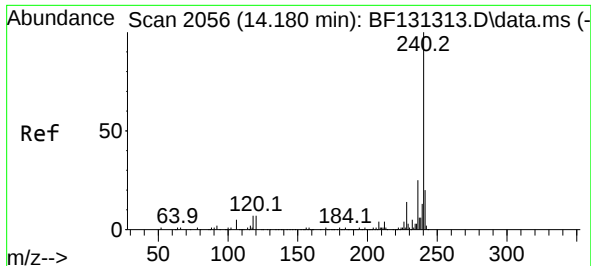
Reviewed By :Christian Giraldo 12/01/2022
 Supervised By :Jagrut Upadhyay 12/01/2022



#75
 Fluoranthene
 Concen: 24.653 ng
 RT: 12.733 min Scan# 1810
 Delta R.T. 0.012 min
 Lab File: BF131481.D
 Acq: 30 Nov 2022 20:33

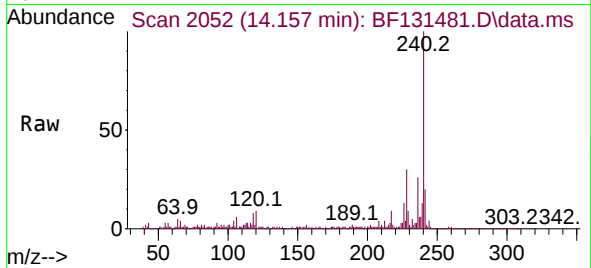
Tgt Ion:202 Resp: 407919
 Ion Ratio Lower Upper
 202 100
 101 9.5 0.0 29.6
 203 17.8 0.0 37.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.157 min Scan# 2052
Delta R.T. 0.000 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33

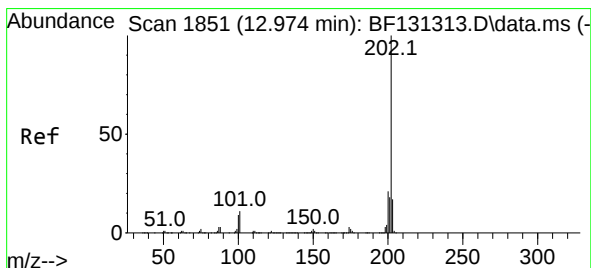
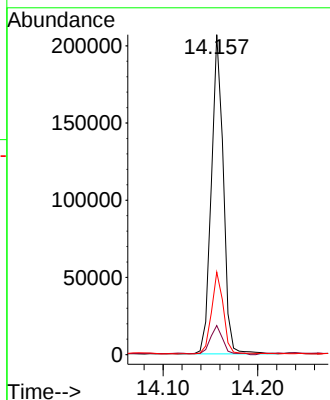
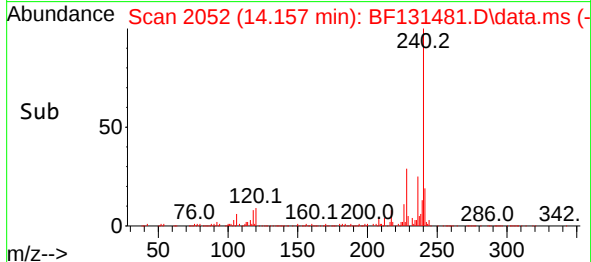
Instrument :
BNA_F
ClientSampleId :
SP-1



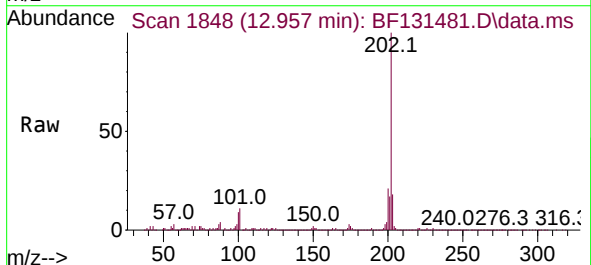
Tgt Ion:240 Resp: 181872
Ion Ratio Lower Upper
240 100
120 9.1 5.8 8.8
236 25.8 20.3 30.5

Manual Integrations
APPROVED

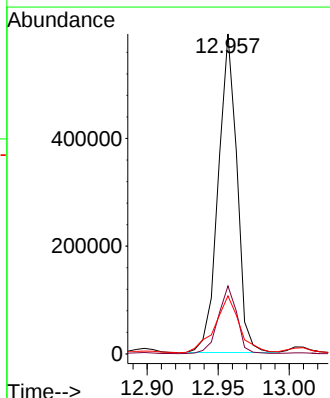
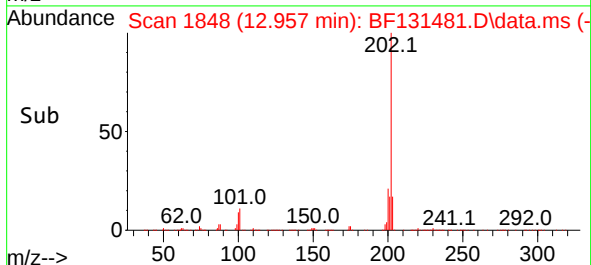
Reviewed By :Christian Giraldo 12/01/2022
Supervised By :Jagrut Upadhyay 12/01/2022

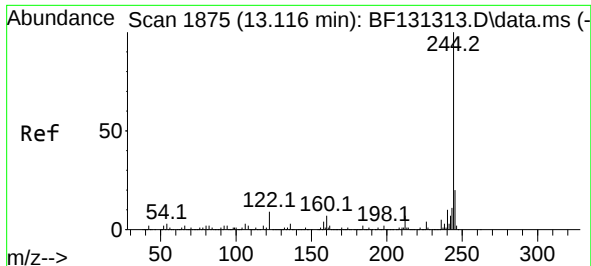


#78
Pyrene
Concen: 33.938 ng
RT: 12.957 min Scan# 1848
Delta R.T. 0.000 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33



Tgt Ion:202 Resp: 544577
Ion Ratio Lower Upper
202 100
200 21.2 16.9 25.3
203 18.1 13.9 20.9





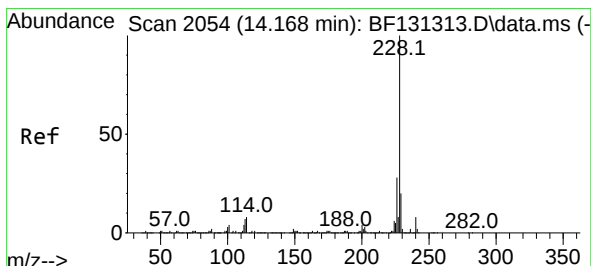
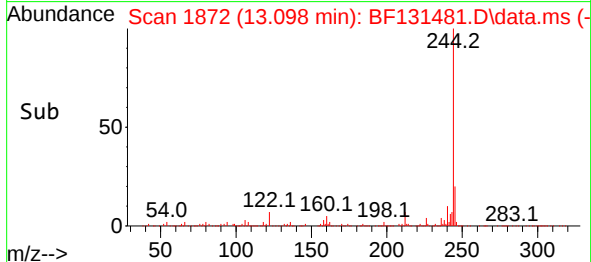
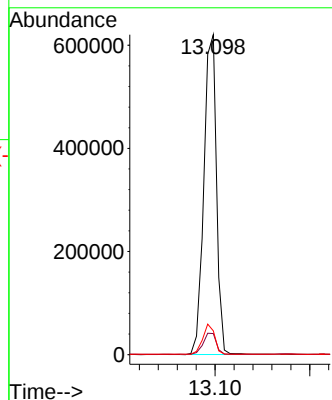
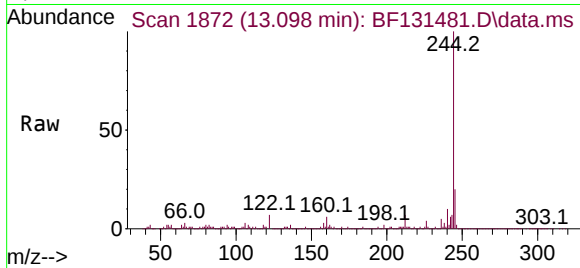
#79
Terphenyl-d14
Concen: 51.759 ng
RT: 13.098 min Scan# 1875
Delta R.T. 0.000 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33

Instrument :
BNA_F
ClientSampleId :
SP-1

Tgt Ion:244 Resp: 575660
Ion Ratio Lower Upper
244 100
212 6.6 5.9 8.9
122 7.4 7.5 11.3

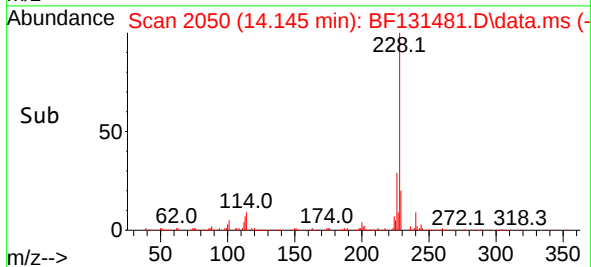
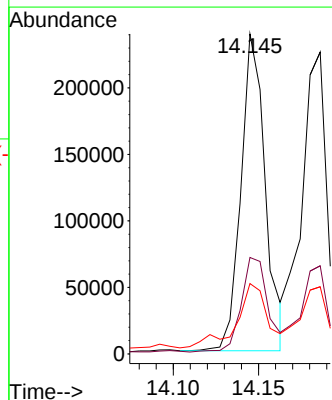
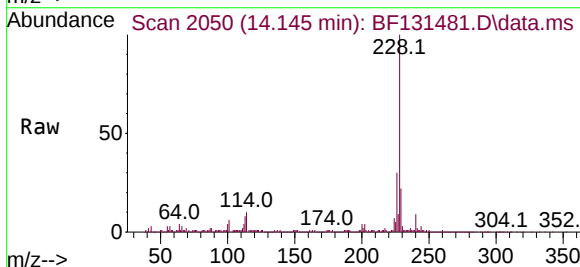
Manual Integrations
APPROVED

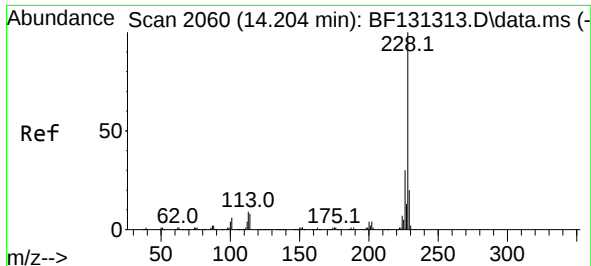
Reviewed By :Christian Giraldo 12/01/2022
Supervised By :Jagrut Upadhyay 12/01/2022



#81
Benzo(a)anthracene
Concen: 18.961 ng
RT: 14.145 min Scan# 2050
Delta R.T. 0.000 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33

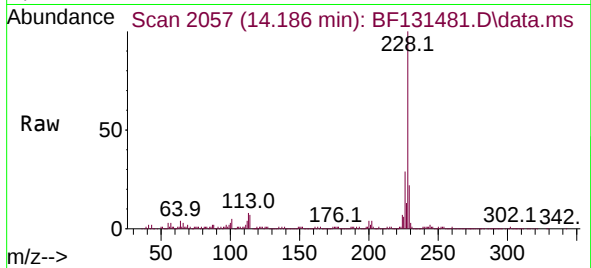
Tgt Ion:228 Resp: 236371
Ion Ratio Lower Upper
228 100
226 30.1 22.0 33.0
229 22.0 15.7 23.5





#83
Chrysene
Concen: 18.865 ng
RT: 14.186 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33

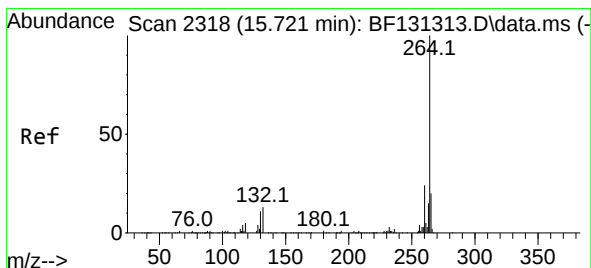
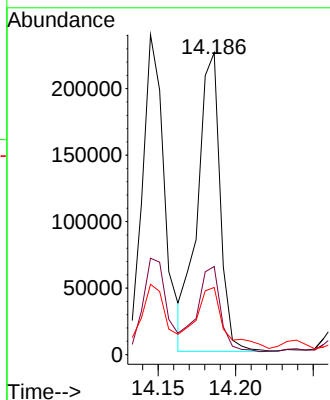
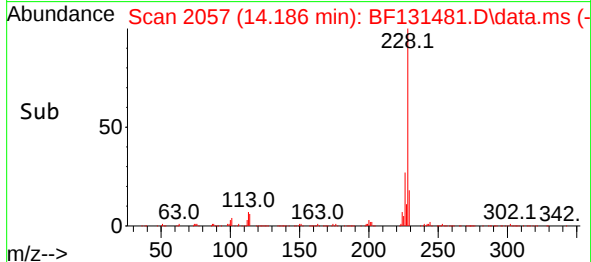
Instrument :
BNA_F
ClientSampleId :
SP-1



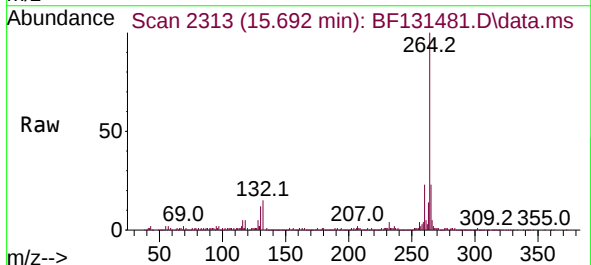
Tgt Ion:228 Resp: 23073
Ion Ratio Lower Upper
228 100
226 29.2 23.7 35.5
229 22.2 16.2 24.4

Manual Integrations
APPROVED

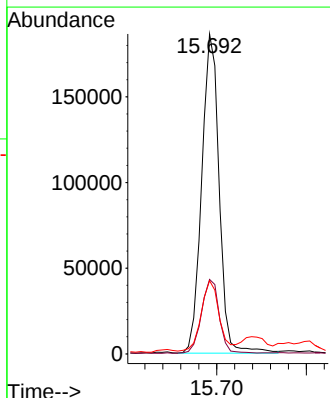
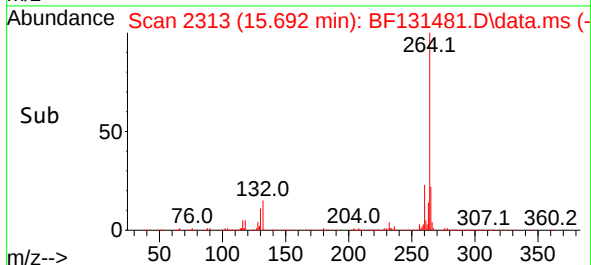
Reviewed By :Christian Giraldo 12/01/2022
Supervised By :Jagrut Upadhyay 12/01/2022

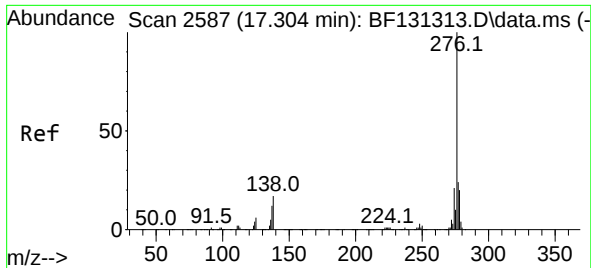


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.692 min Scan# 2313
Delta R.T. 0.000 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33



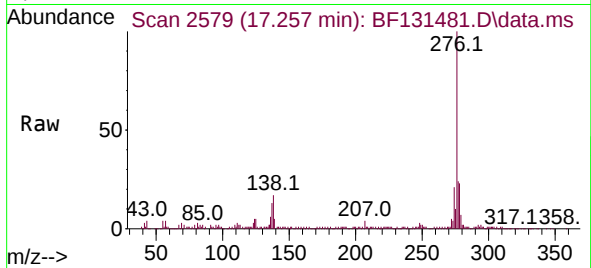
Tgt Ion:264 Resp: 251887
Ion Ratio Lower Upper
264 100
260 23.3 19.0 28.4
265 22.9 16.4 24.6





#87
Indeno(1,2,3-cd)pyrene
Concen: 8.249 ng
RT: 17.257 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33

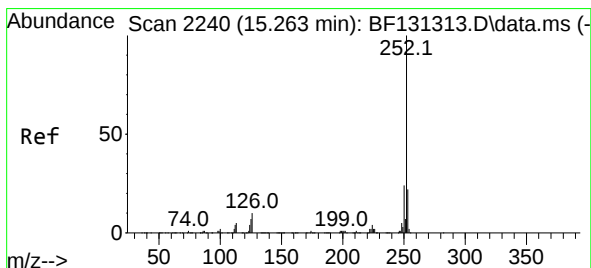
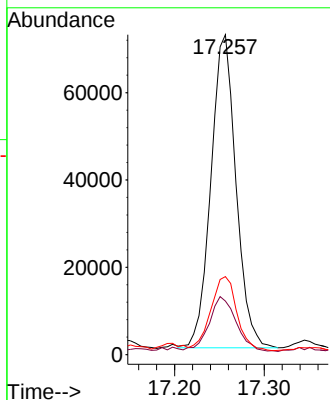
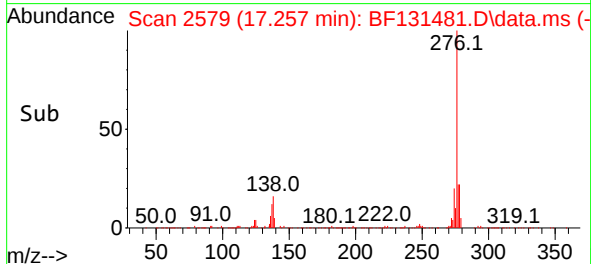
Instrument :
BNA_F
ClientSampleId :
SP-1



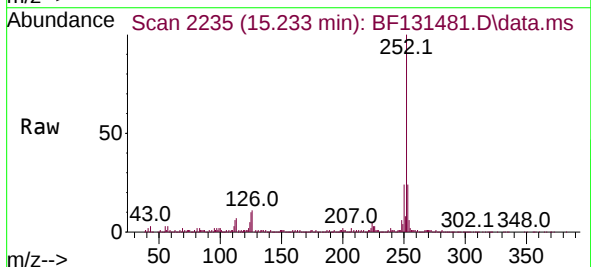
Tgt Ion:276 Resp: 139562
Ion Ratio Lower Upper
276 100
138 18.9 15.8 23.6
277 24.8 20.3 30.5

Manual Integrations
APPROVED

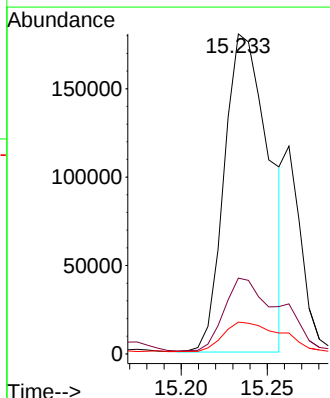
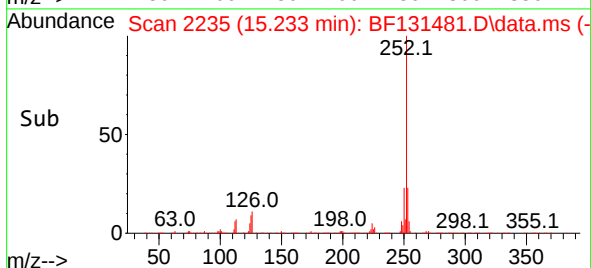
Reviewed By :Christian Giraldo 12/01/2022
Supervised By :Jagrut Upadhyay 12/01/2022

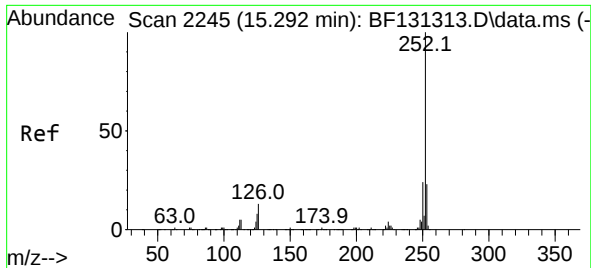


#88
Benzo(b)fluoranthene
Concen: 19.443 ng m
RT: 15.233 min Scan# 2235
Delta R.T. 0.000 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33



Tgt Ion:252 Resp: 325352
Ion Ratio Lower Upper
252 100
253 23.7 17.5 26.3
125 9.9 5.8 8.6#





#89

Benzo(k)fluoranthene

Concen: 4.720 ng m

RT: 15.263 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF131481.D

Acq: 30 Nov 2022 20:33

Instrument :

BNA_F

ClientSampleId :

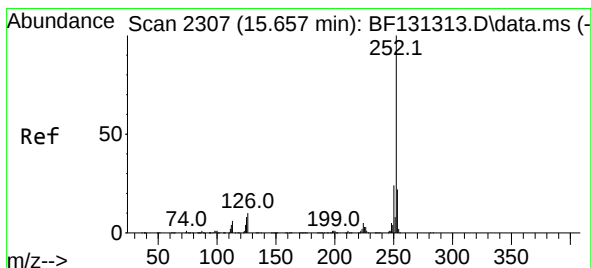
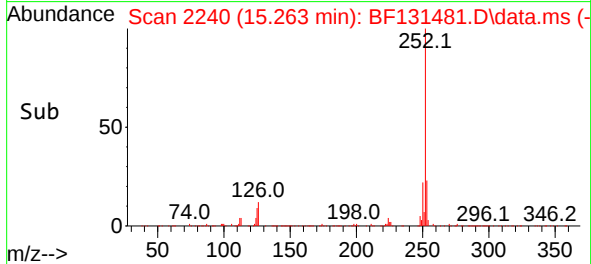
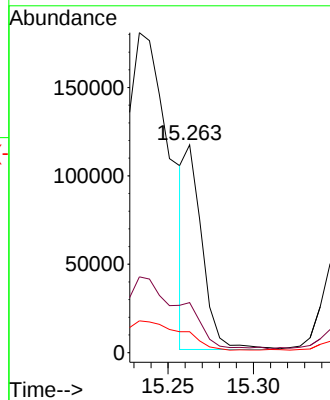
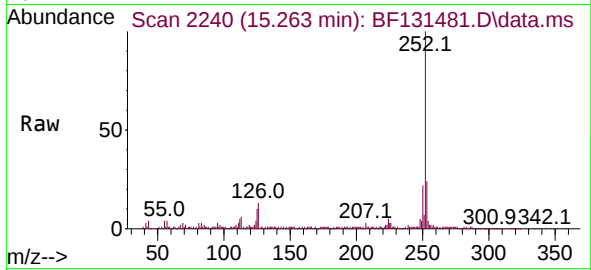
SP-1

Tgt Ion:252	Resp:	81162
Ion Ratio	Lower	Upper
252	100	
253	24.0	17.9 26.9
125	10.1	6.6 10.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 12/01/2022
Supervised By :Jagrut Upadhyay 12/01/2022



#90

Benzo(a)pyrene

Concen: 20.382 ng

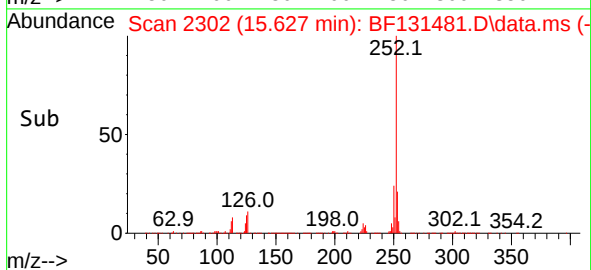
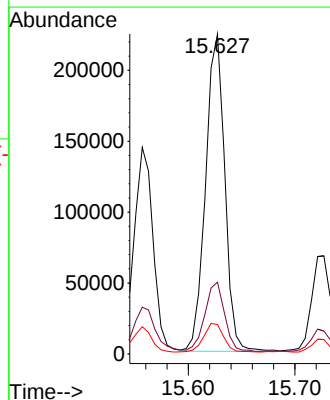
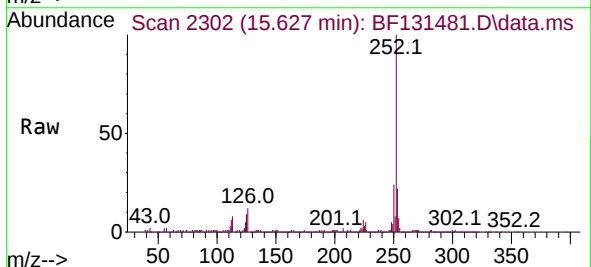
RT: 15.627 min Scan# 2302

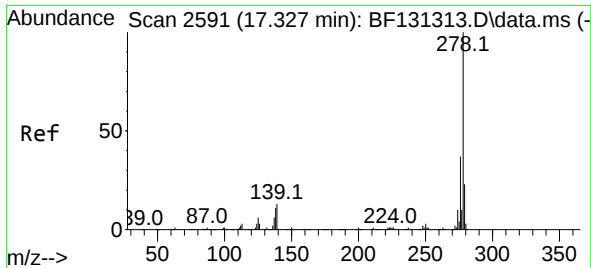
Delta R.T. 0.000 min

Lab File: BF131481.D

Acq: 30 Nov 2022 20:33

Tgt Ion:252	Resp:	279854
Ion Ratio	Lower	Upper
252	100	
253	22.4	17.5 26.3
125	9.2	6.1 9.1





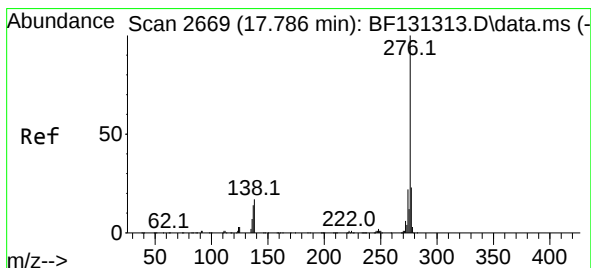
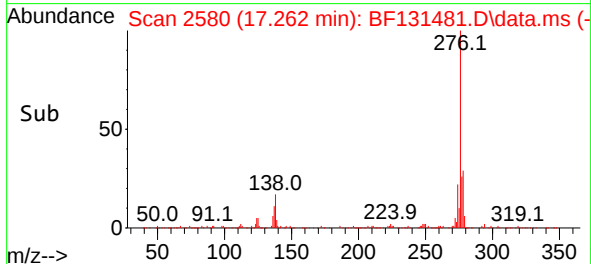
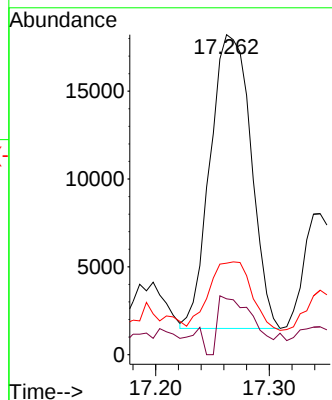
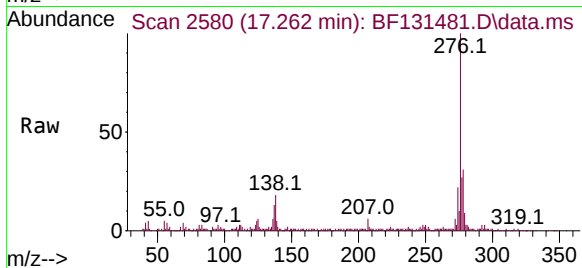
#91
Dibenzo(a,h)anthracene
Concen: 2.984 ng
RT: 17.262 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33

Instrument :
BNA_F
ClientSampleId :
SP-1

Tgt Ion:278 Resp: 41684
Ion Ratio Lower Upper
278 100
139 22.8 10.4 15.6
279 28.6 18.3 27.5

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 12/01/2022
Supervised By :Jagrut Upadhyay 12/01/2022



#92
Benzo(g,h,i)perylene
Concen: 9.916 ng
RT: 17.727 min Scan# 2659
Delta R.T. -0.012 min
Lab File: BF131481.D
Acq: 30 Nov 2022 20:33

Tgt Ion:276 Resp: 138238
Ion Ratio Lower Upper
276 100
277 25.3 18.3 27.5
138 18.3 13.8 20.6

