

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110922\
 Data File : BF131111.D
 Acq On : 10 Nov 2022 03:32
 Operator : CG\JU
 Sample : N5511-01
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-03-110722

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 11/10/2022
 Supervised By : Jagrut Upadhyay 11/10/2022

Quant Time: Nov 10 04:36:51 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110922.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 10 04:15:17 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	86773	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	312605	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	142051	20.000	ng	0.00
64) Phenanthrene-d10	11.433	188	208398	20.000	ng	0.00
76) Chrysene-d12	14.092	240	161016	20.000	ng	0.01
86) Perylene-d12	15.586	264	139699	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	561027	109.953	ng	0.01
7) Phenol-d6	6.522	99	694615	104.128	ng	0.00
23) Nitrobenzene-d5	7.457	82	458643	66.197	ng	0.00
42) 2,4,6-Tribromophenol	10.727	330	134020	91.291	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	739771	72.699	ng	0.00
79) Terphenyl-d14	13.021	244	578419	62.985	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.198	128	885996	51.871	ng	99
37) 2-Methylnaphthalene	8.892	142	581761	52.837	ng	97
38) 1-Methylnaphthalene	8.992	142	452077	41.925	ng	98
46) 1,1'-Biphenyl	9.351	154	90403	8.231	ng	98
49) Acenaphthylene	9.798	152	140564	10.321	ng	98
52) Acenaphthene	9.969	154	295478	36.373	ng	99
55) Dibenzofuran	10.145	168	482178	40.080	ng	95
58) Fluorene	10.492	166	717097	73.390	ng	98
71) Phenanthrene	11.469	178	3148155	274.668	ng	99
72) Anthracene	11.516	178	1076959	96.812	ng	99
73) Carbazole	11.663	167	284967	28.806	ng	100
75) Fluoranthene	12.668	202	3274857	285.440	ng	98
78) Pyrene	12.898	202	3060290	221.528	ng	97
81) Benzo(a)anthracene	14.080	228	1717520	149.234	ng	97
83) Chrysene	14.121	228	1354613	124.630	ng	96
87) Indeno(1,2,3-cd)pyrene	17.109	276	504044	44.411	ng	95
88) Benzo(b)fluoranthene	15.151	252	1453143m	147.126	ng	
89) Benzo(k)fluoranthene	15.174	252	462721m	48.742	ng	
90) Benzo(a)pyrene	15.533	252	1040024	131.343	ng	99
91) Dibenzo(a,h)anthracene	17.115	278	136617	17.409	ng	94
92) Benzo(g,h,i)perylene	17.574	276	458526	46.793	ng	97

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

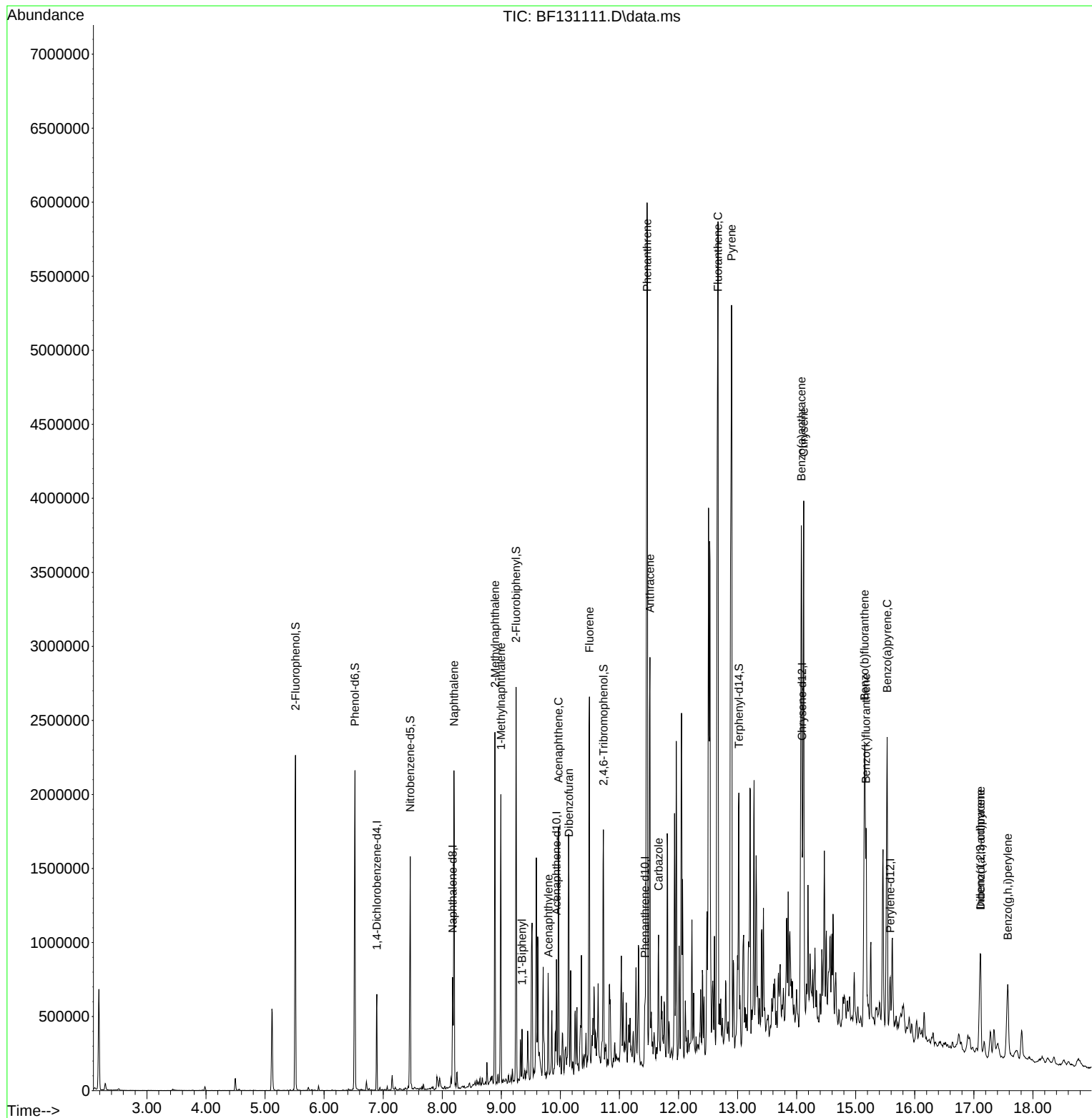
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110922\
Data File : BF131111.D
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Sample : N5511-01
Misc :
ALS Vial : 20 Sample Multiplier: 1

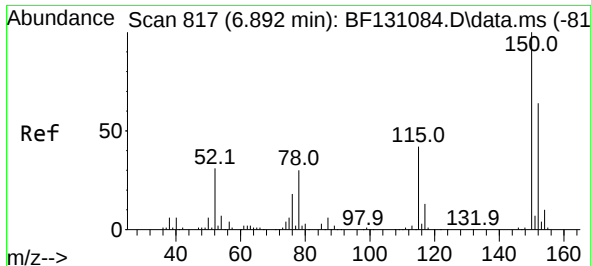
Instrument :
BNA_F
ClientSampleId :
PL-03-110722

Quant Time: Nov 10 04:36:51 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110922.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 10 04:15:17 2022
Response via : Initial Calibration

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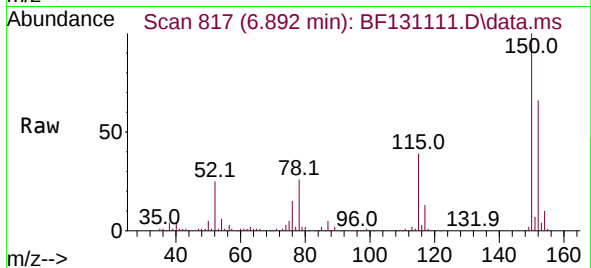
Reviewed By : Christian Giraldo 11/10/2022
Supervised By : Jagrut Upadhyay 11/10/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 817
Delta R.T. 0.000 min
Lab File: BF131111.D
Acq: 10 Nov 2022 03:32

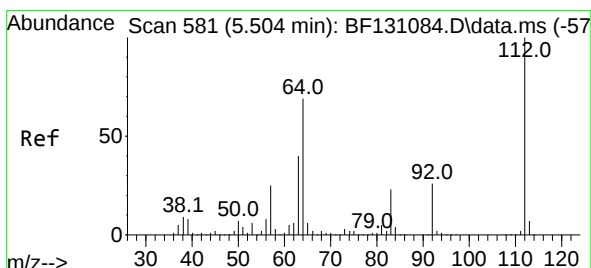
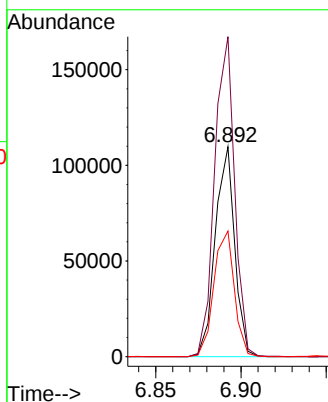
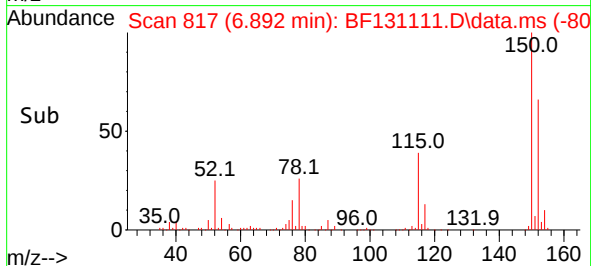
Instrument :
BNA_F
ClientSampleId :
PL-03-110722



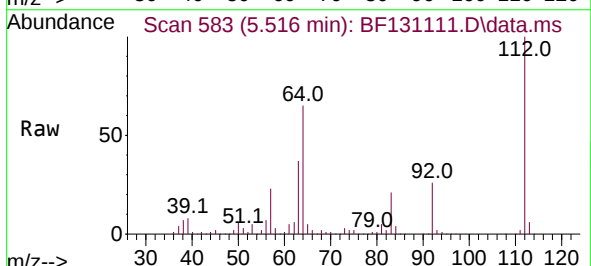
Tgt Ion:152 Resp: 86773
Ion Ratio Lower Upper
152 100
150 152.5 125.5 188.3
115 59.8 52.2 78.2

Manual Integrations
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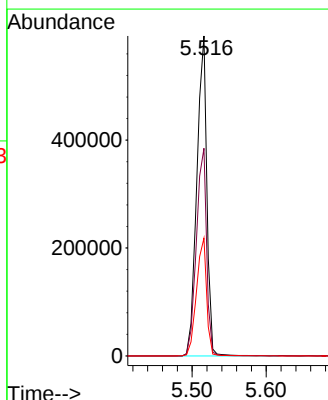
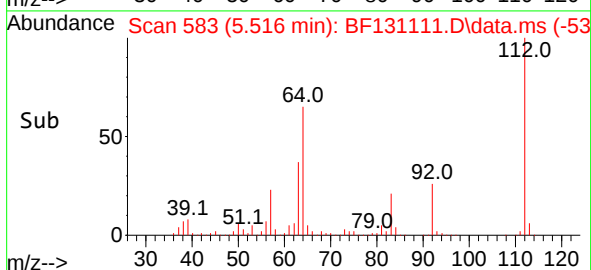
Reviewed By :Christian Giraldo 11/10/2022
Supervised By :Jagrut Upadhyay 11/10/2022

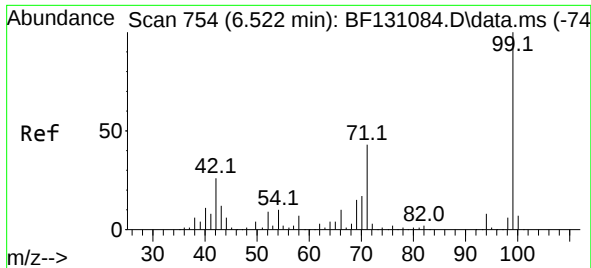


#5
2-Fluorophenol
Concen: 109.953 ng
RT: 5.516 min Scan# 583
Delta R.T. 0.012 min
Lab File: BF131111.D
Acq: 10 Nov 2022 03:32



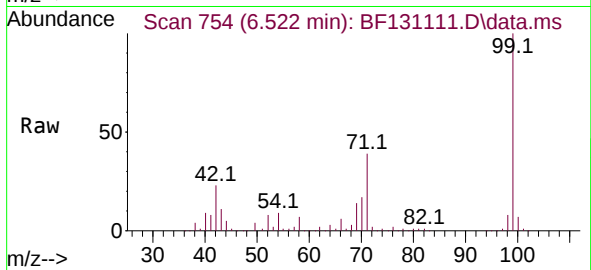
Tgt Ion:112 Resp: 561027
Ion Ratio Lower Upper
112 100
64 64.9 55.1 82.7
63 36.8 32.4 48.6





#7
Phenol-d6
Concen: 104.128 ng
RT: 6.522 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF131111.D
Acq: 10 Nov 2022 03:32

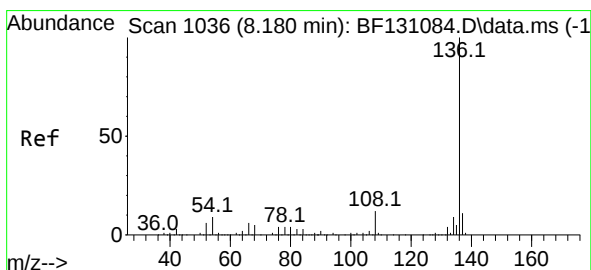
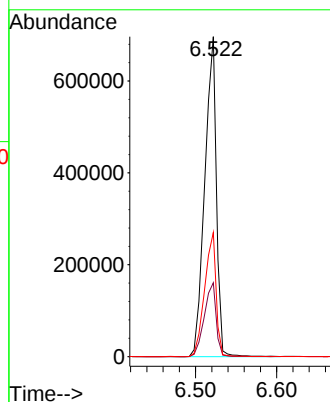
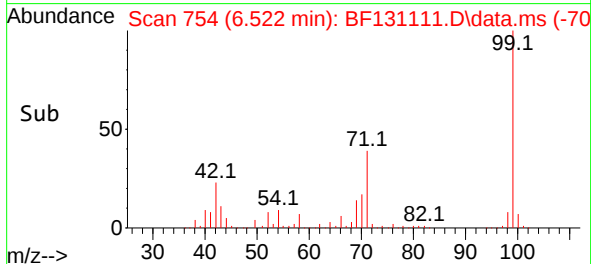
Instrument :
BNA_F
ClientSampleId :
PL-03-110722



Tgt Ion: 99 Resp: 694615
Ion Ratio Lower Upper
99 100
42 23.1 20.8 31.2
71 38.8 34.2 51.4

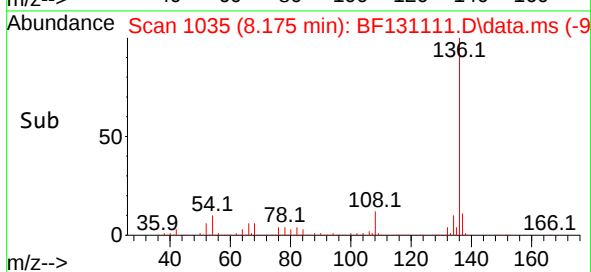
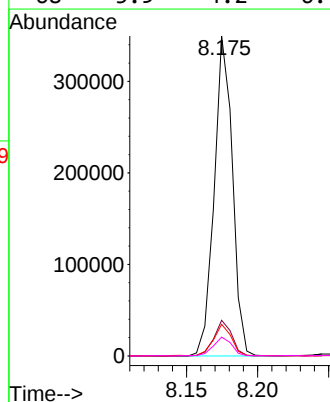
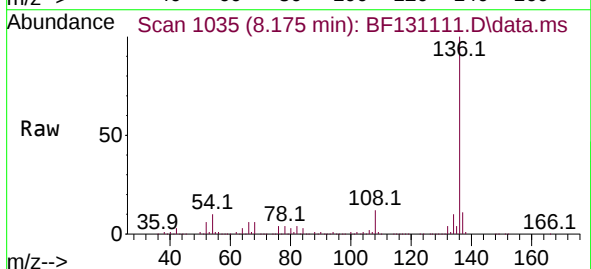
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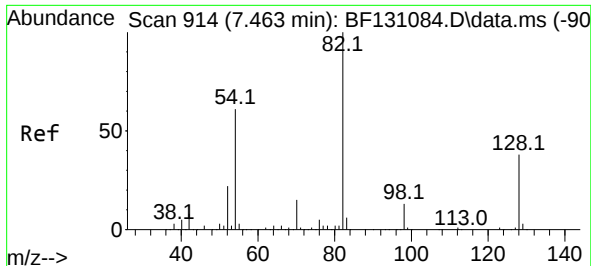
Reviewed By :Christian Giraldo 11/10/2022
Supervised By :Jagrut Upadhyay 11/10/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1035
Delta R.T. -0.005 min
Lab File: BF131111.D
Acq: 10 Nov 2022 03:32

Tgt Ion:136 Resp: 312605
Ion Ratio Lower Upper
136 100
137 11.1 8.6 12.8
54 9.9 7.2 10.8
68 5.9 4.2 6.4





#23

Nitrobenzene-d5

Concen: 66.197 ng

RT: 7.457 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF131111.D

Acq: 10 Nov 2022 03:32

Instrument :

BNA_F

ClientSampleId :

PL-03-110722

Tgt Ion: 82 Resp: 458643

Ion Ratio Lower Upper

82 100

128 40.5 30.5 45.7

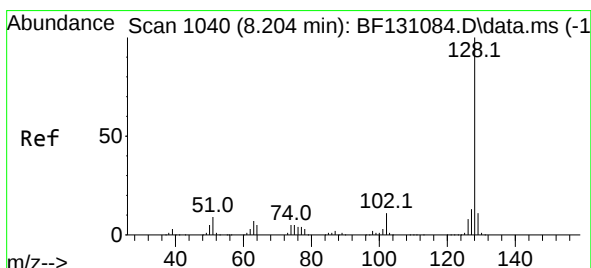
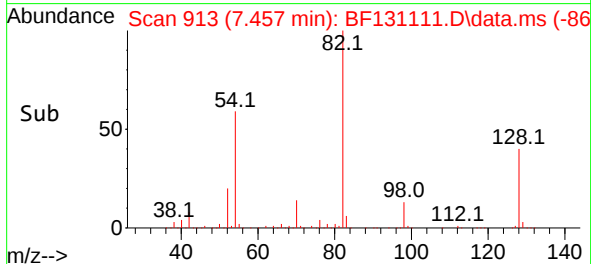
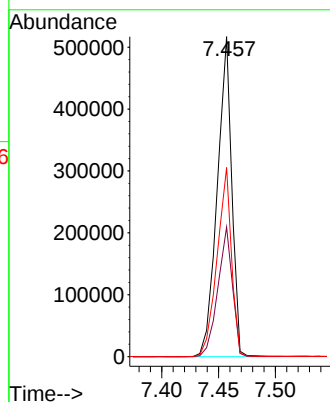
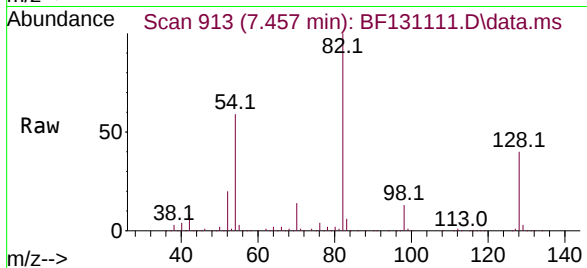
54 59.1 49.1 73.7

Manual Integrations

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#31

Naphthalene

Concen: 51.871 ng

RT: 8.198 min Scan# 1039

Delta R.T. -0.006 min

Lab File: BF131111.D

Acq: 10 Nov 2022 03:32

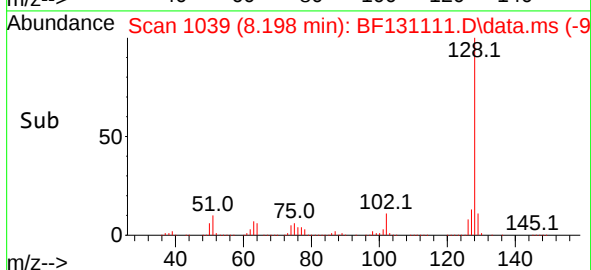
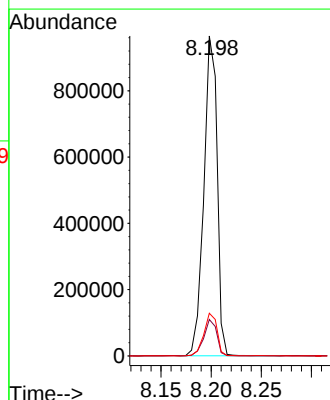
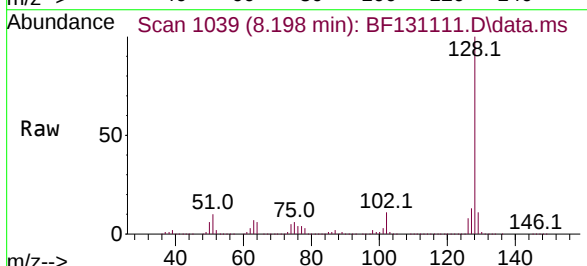
Tgt Ion:128 Resp: 885996

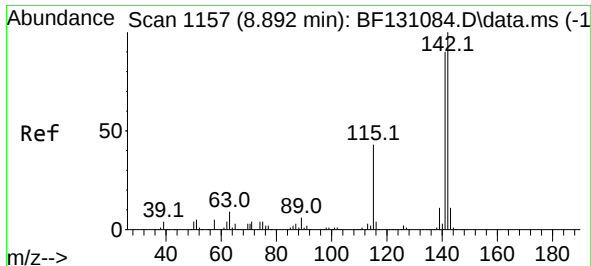
Ion Ratio Lower Upper

128 100

129 11.4 8.7 13.1

127 13.3 10.8 16.2





#37

2-Methylnaphthalene

Concen: 52.837 ng

RT: 8.892 min Scan# 1157

Delta R.T. 0.000 min

Lab File: BF131111.D

Acq: 10 Nov 2022 03:32

Instrument :

BNA_F

ClientSampleId :

PL-03-110722

Tgt Ion:142 Resp: 58176

Ion Ratio Lower Upper

142 100

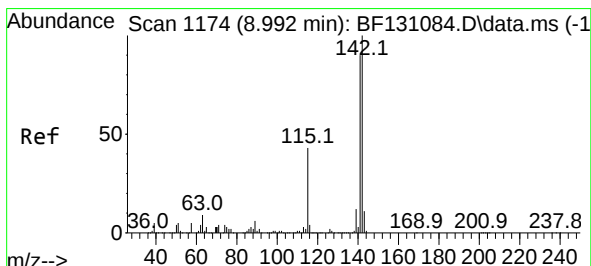
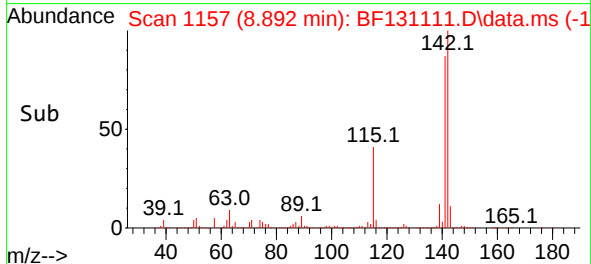
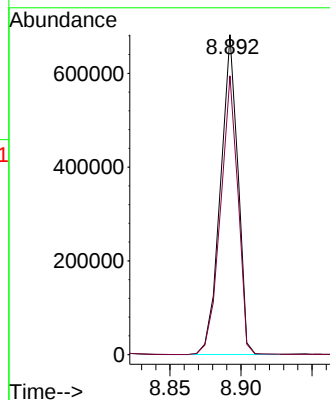
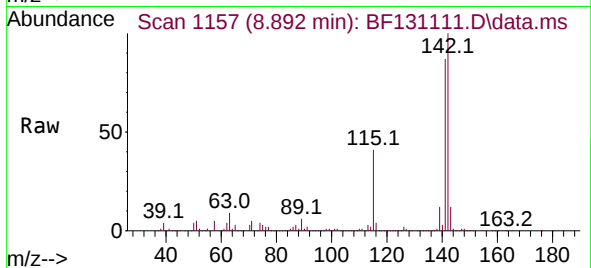
141 87.1 72.0 108.0

Manual Integrations

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Reviewed By :Christian Giraldo 11/10/2022

Supervised By :Jagrut Upadhyay 11/10/2022



#38

1-Methylnaphthalene

Concen: 41.925 ng

RT: 8.992 min Scan# 1174

Delta R.T. 0.000 min

Lab File: BF131111.D

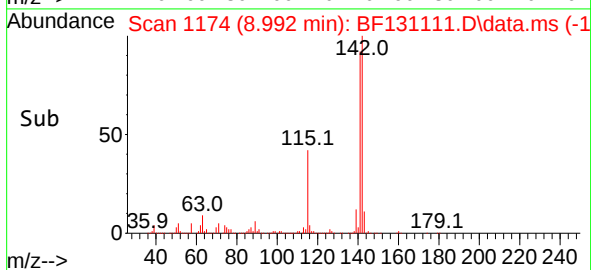
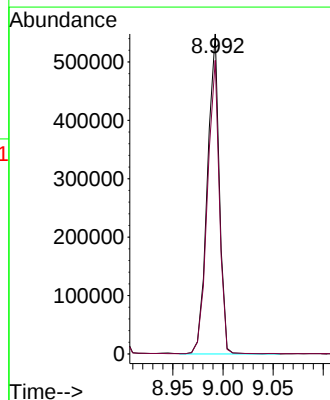
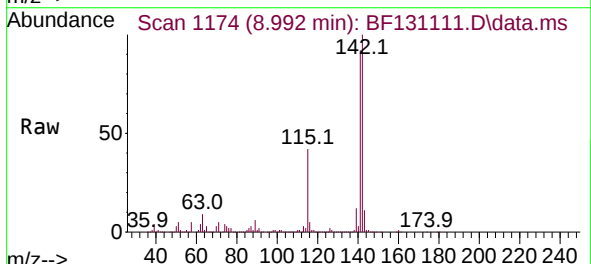
Acq: 10 Nov 2022 03:32

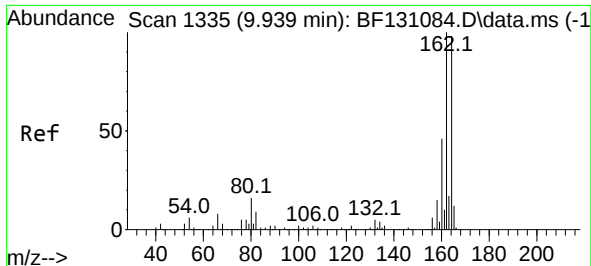
Tgt Ion:142 Resp: 452077

Ion Ratio Lower Upper

142 100

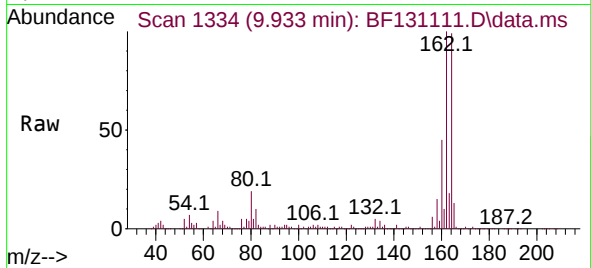
141 91.7 72.1 108.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1335
Delta R.T. -0.006 min
Lab File: BF131111.D
Acq: 10 Nov 2022 03:32

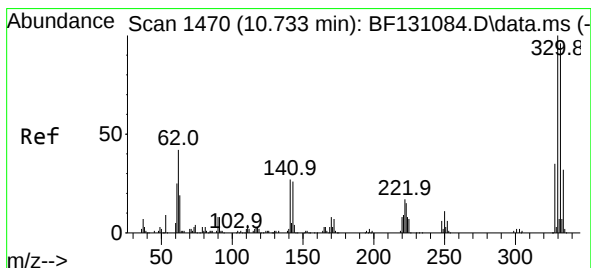
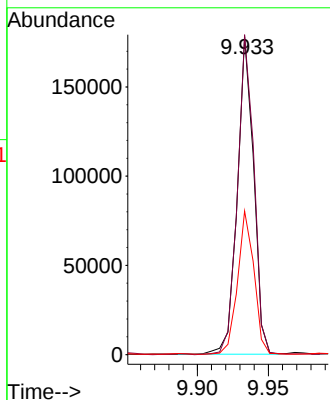
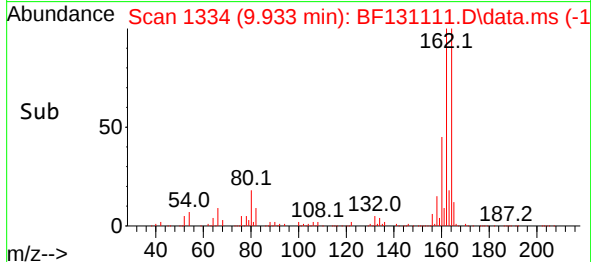
Instrument :
BNA_F
ClientSampleId :
PL-03-110722



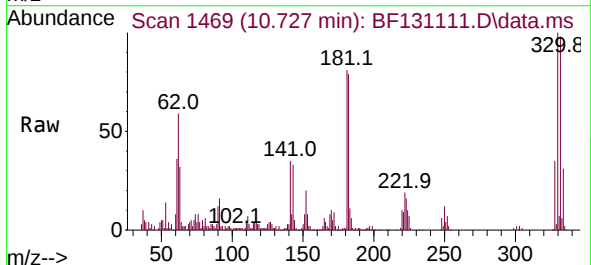
Tgt Ion:164 Resp: 142051
Ion Ratio Lower Upper
164 100
162 100.6 81.7 122.5
160 45.2 37.4 56.2

Manual Integrations
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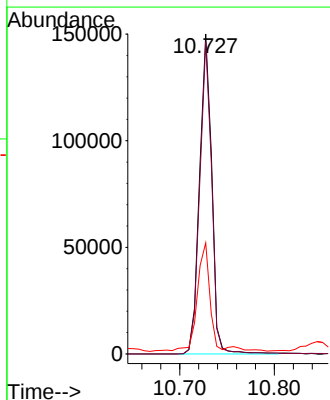
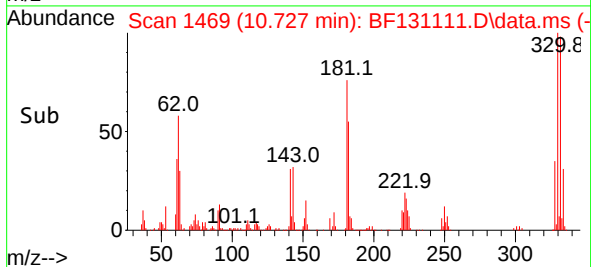
Reviewed By :Christian Giraldo 11/10/2022
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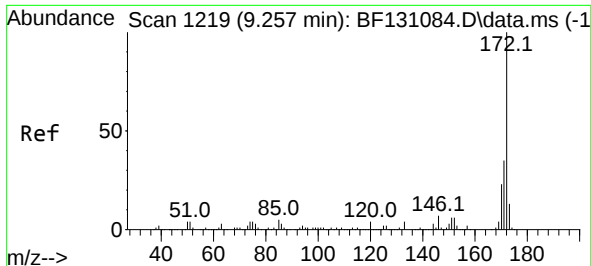


#42
2,4,6-Tribromophenol
Concen: 91.291 ng
RT: 10.727 min Scan# 1469
Delta R.T. -0.006 min
Lab File: BF131111.D
Acq: 10 Nov 2022 03:32



Tgt Ion:330 Resp: 134020
Ion Ratio Lower Upper
330 100
332 95.8 77.0 115.4
141 34.8 28.5 42.7





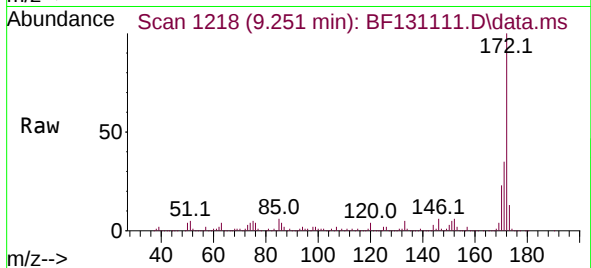
#45
2-Fluorobiphenyl
Concen: 72.699 ng
RT: 9.251 min Scan# 1218
Delta R.T. -0.006 min
Lab File: BF131111.D
Acq: 10 Nov 2022 03:32

Instrument :

BNA_F

ClientSampleId :

PL-03-110722

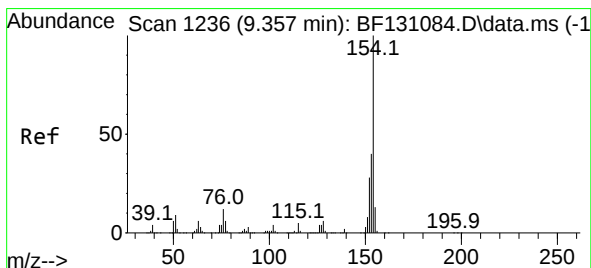
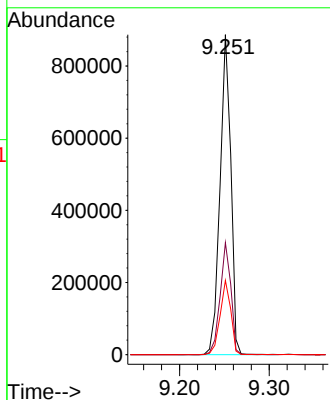
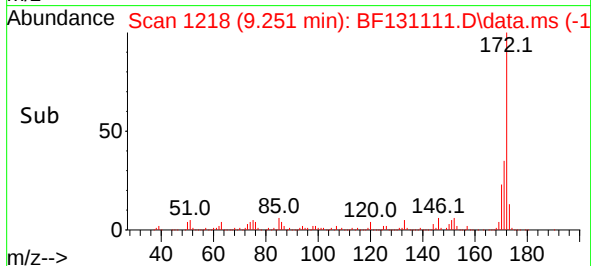


Tgt Ion:172 Resp: 739772
Ion Ratio Lower Upper
172 100
171 35.0 27.7 41.5
170 23.2 18.8 28.2

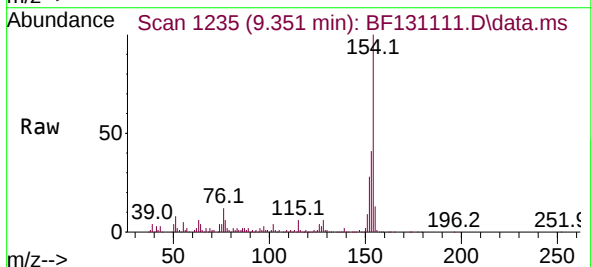
Manual Integrations

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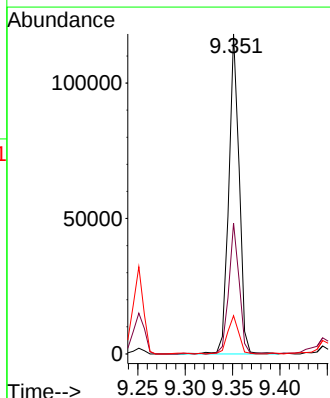
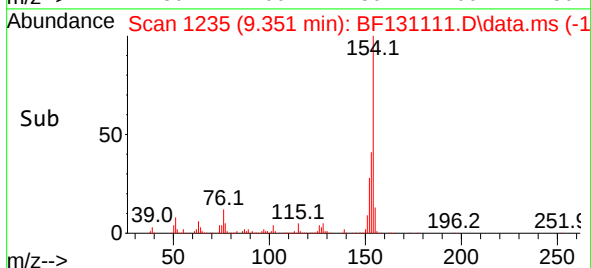
Reviewed By :Christian Giraldo 11/10/2022
Supervised By :Jagrut Upadhyay 11/10/2022

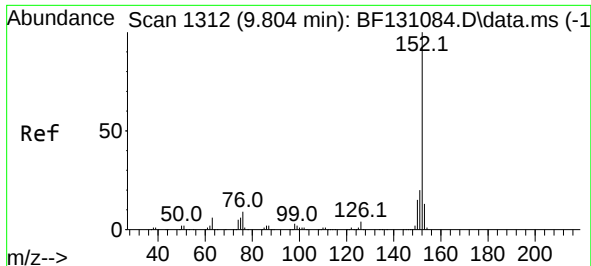


#46
1,1'-Biphenyl
Concen: 8.231 ng
RT: 9.351 min Scan# 1235
Delta R.T. -0.006 min
Lab File: BF131111.D
Acq: 10 Nov 2022 03:32



Tgt Ion:154 Resp: 90403
Ion Ratio Lower Upper
154 100
153 40.9 19.9 59.9
76 11.9 0.0 32.5





#49

Acenaphthylene

Concen: 10.321 ng

RT: 9.798 min Scan# 1311

Delta R.T. -0.006 min

Lab File: BF131111.D

Acq: 10 Nov 2022 03:32

Instrument :

BNA_F

ClientSampleId :

PL-03-110722

Tgt Ion:152 Resp: 140564

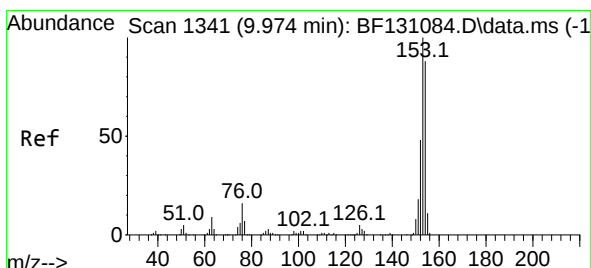
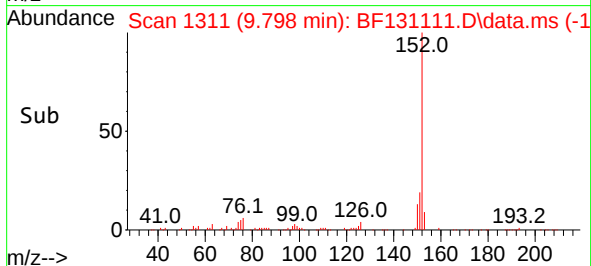
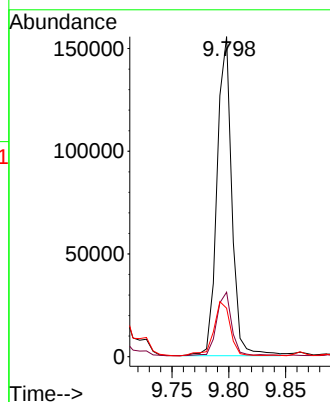
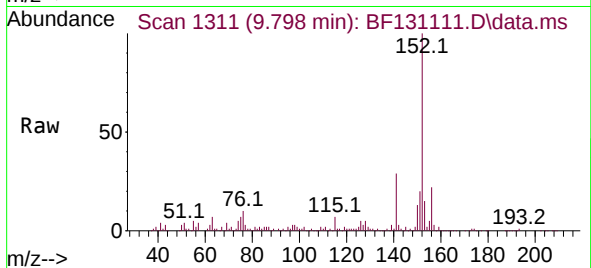
Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.0	24.0
153	15.1	10.2	15.4

Manual Integrations

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Supervised By :Jagrut Upadhyay 11/10/2022



#52

Acenaphthene

Concen: 36.373 ng

RT: 9.969 min Scan# 1340

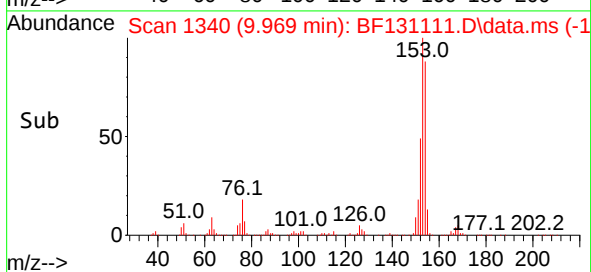
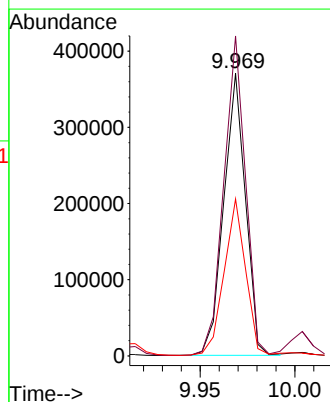
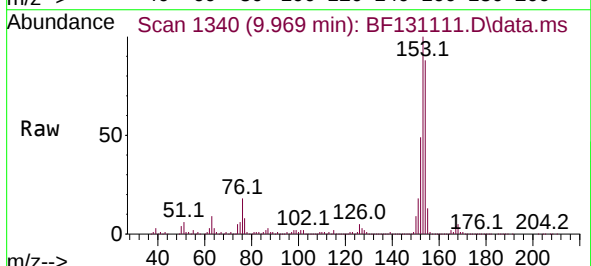
Delta R.T. -0.006 min

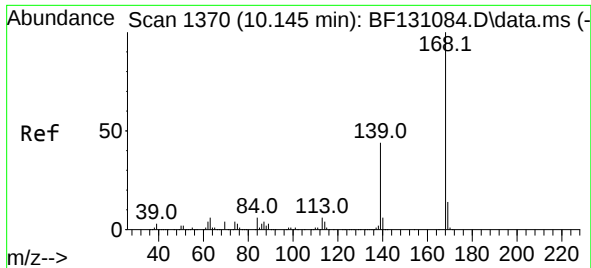
Lab File: BF131111.D

Acq: 10 Nov 2022 03:32

Tgt Ion:154 Resp: 295478

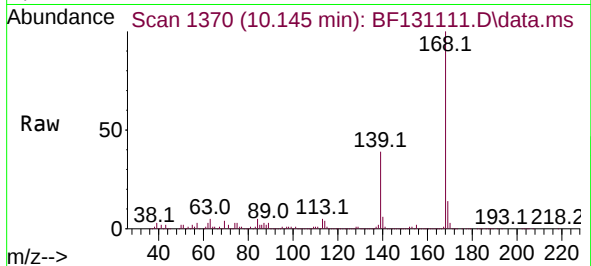
Ion	Ratio	Lower	Upper
154	100		
153	113.2	90.8	136.2
152	55.5	43.4	65.2





#55
Dibenzenofuran
Concen: 40.080 ng
RT: 10.145 min Scan# 1370
Delta R.T. 0.000 min
Lab File: BF131111.D
Acq: 10 Nov 2022 03:32

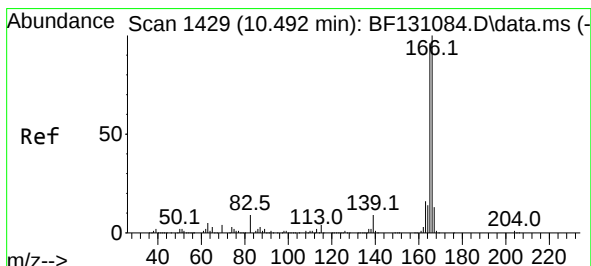
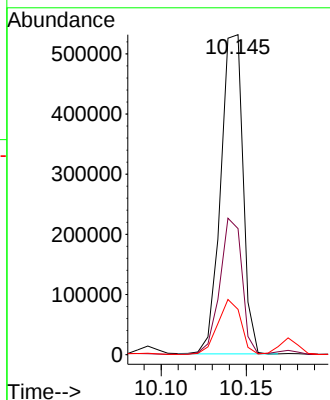
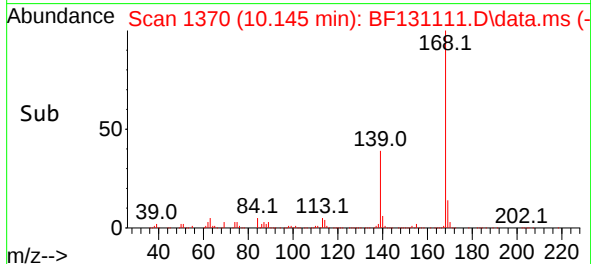
Instrument :
BNA_F
ClientSampleId :
PL-03-110722



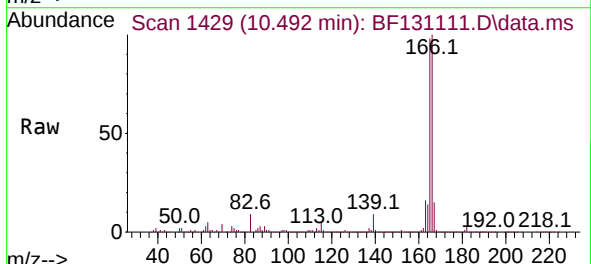
Tgt Ion:168 Resp: 482178
Ion Ratio Lower Upper
168 100
139 39.4 35.0 52.4
169 14.1 11.2 16.8

Manual Integrations
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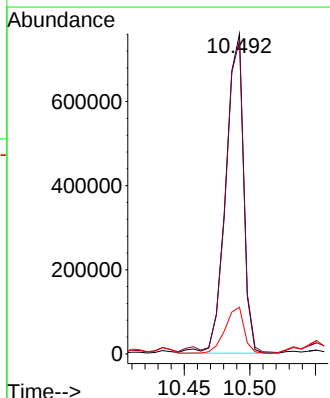
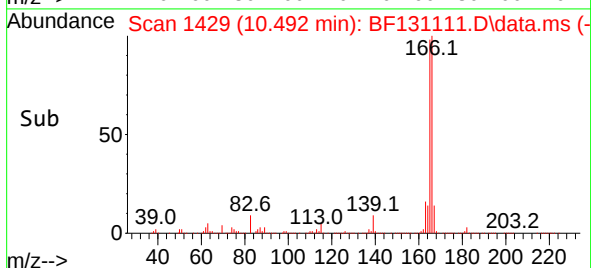
Reviewed By :Christian Giraldo 11/10/2022
Supervised By :Jagrut Upadhyay 11/10/2022

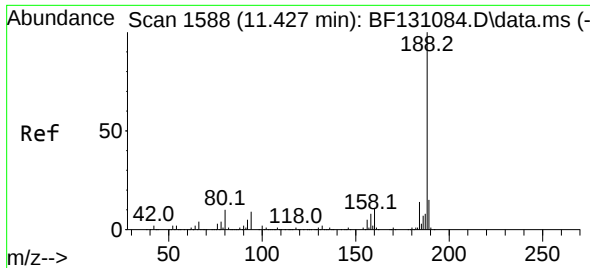


#58
Fluorene
Concen: 73.390 ng
RT: 10.492 min Scan# 1429
Delta R.T. 0.000 min
Lab File: BF131111.D
Acq: 10 Nov 2022 03:32



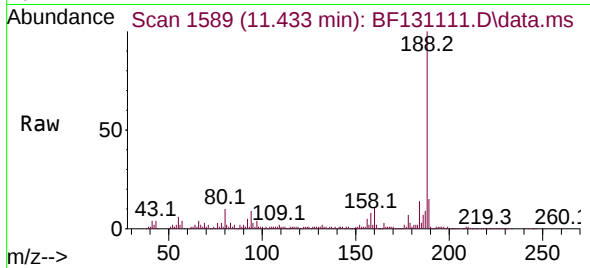
Tgt Ion:166 Resp: 717097
Ion Ratio Lower Upper
166 100
165 98.1 77.2 115.8
167 14.6 10.2 15.4





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.433 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF131111.D
Acq: 10 Nov 2022 03:32

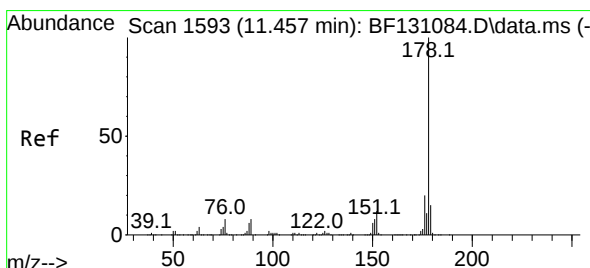
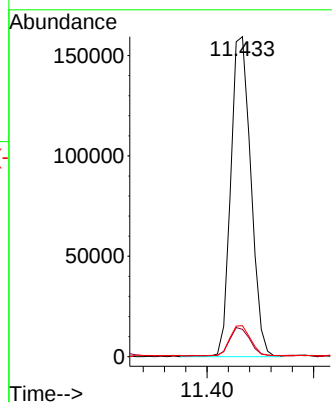
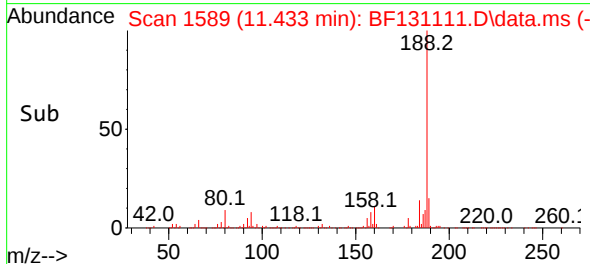
Instrument :
BNA_F
ClientSampleId :
PL-03-110722



Tgt Ion:188 Resp: 208398
Ion Ratio Lower Upper
188 100
94 8.5 7.0 10.6
80 9.7 7.9 11.9

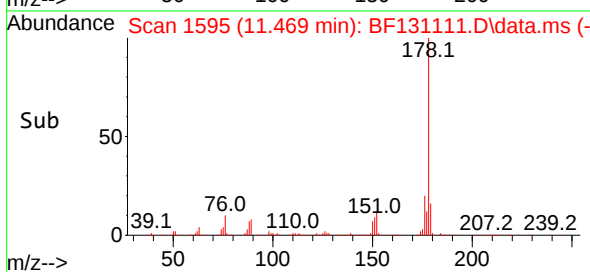
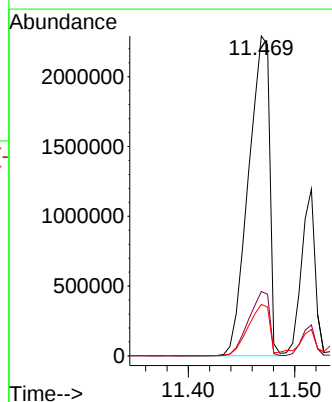
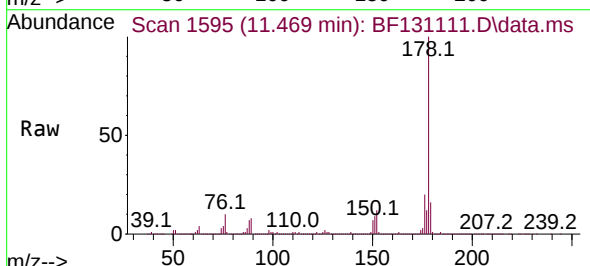
Manual Integrations
APPROVED

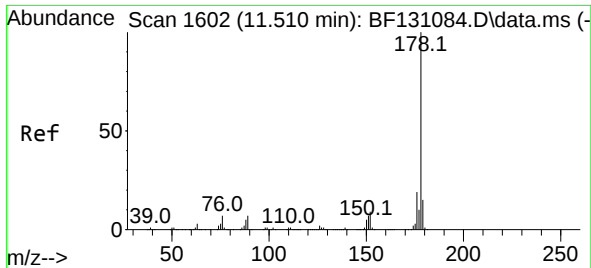
Reviewed By :Christian Giraldo 11/10/2022
Supervised By :Jagrut Upadhyay 11/10/2022



#71
Phenanthrene
Concen: 274.668 ng
RT: 11.469 min Scan# 1595
Delta R.T. 0.012 min
Lab File: BF131111.D
Acq: 10 Nov 2022 03:32

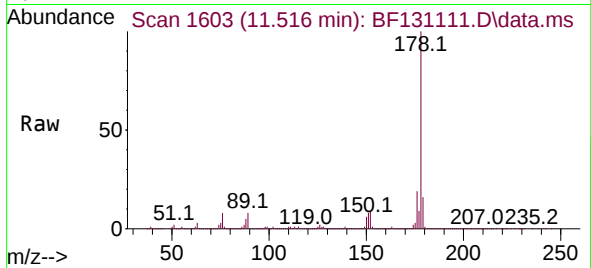
Tgt Ion:178 Resp: 3148155
Ion Ratio Lower Upper
178 100
176 20.1 15.8 23.8
179 16.1 12.2 18.2





#72
 Anthracene
 Concen: 96.812 ng
 RT: 11.516 min Scan# 1603
 Delta R.T. 0.006 min
 Lab File: BF131111.D
 Acq: 10 Nov 2022 03:32

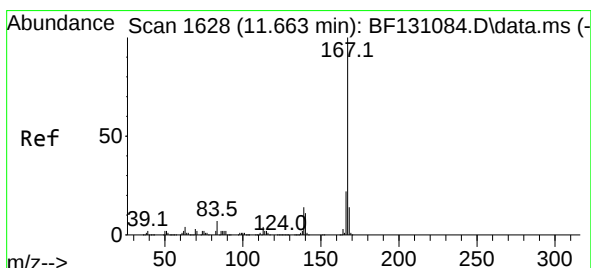
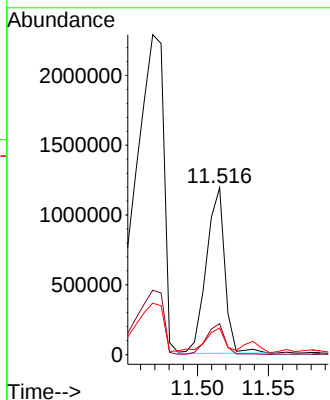
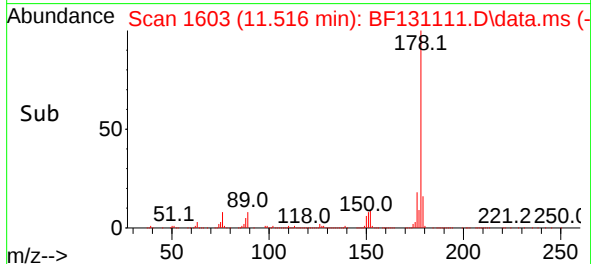
Instrument :
 BNA_F
 ClientSampleId :
 PL-03-110722



Tgt Ion:178 Resp: 1076959
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.0 22.6
 179 15.9 11.8 17.8

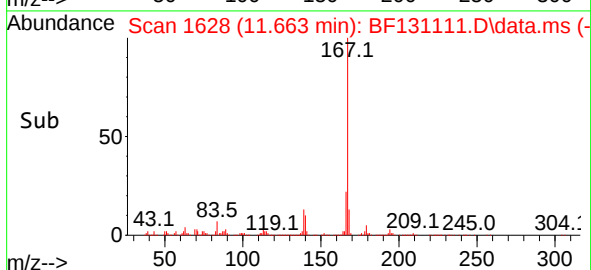
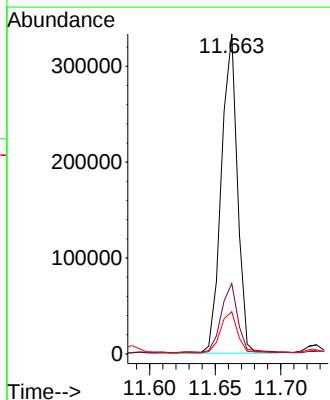
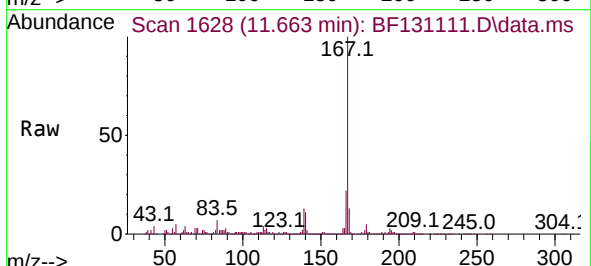
Manual Integrations
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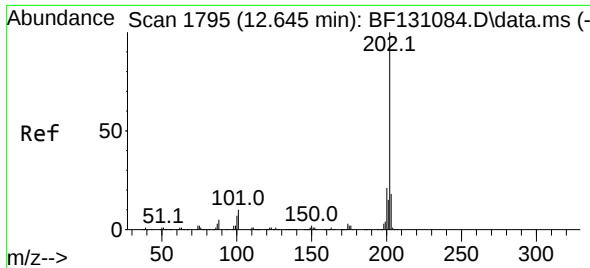
Reviewed By :Christian Giraldo 11/10/2022
 Supervised By :Jagrut Upadhyay 11/10/2022



#73
 Carbazole
 Concen: 28.806 ng
 RT: 11.663 min Scan# 1628
 Delta R.T. -0.000 min
 Lab File: BF131111.D
 Acq: 10 Nov 2022 03:32

Tgt Ion:167 Resp: 284967
 Ion Ratio Lower Upper
 167 100
 166 22.0 17.6 26.4
 139 13.2 10.8 16.2





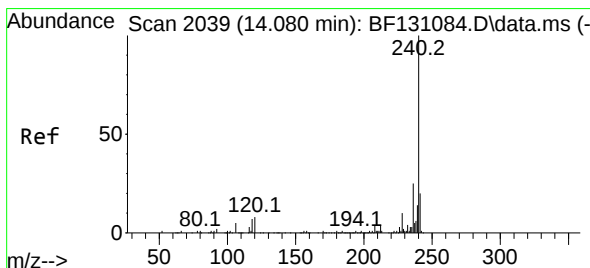
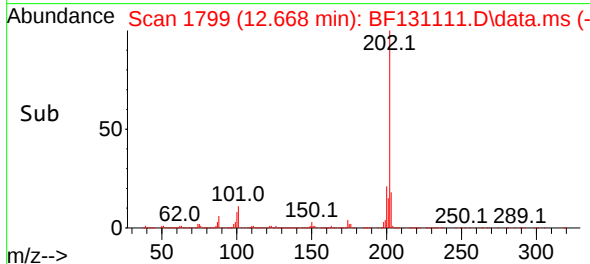
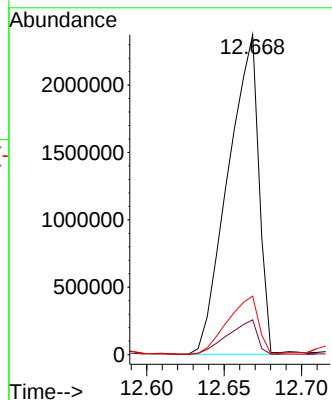
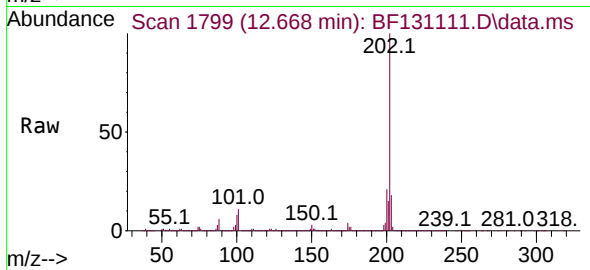
#75
Fluoranthene
Concen: 285.440 ng
RT: 12.668 min Scan# 1799
Delta R.T. 0.024 min
Lab File: BF131111.D
Acq: 10 Nov 2022 03:32

Instrument :
BNA_F
ClientSampleId :
PL-03-110722

Tgt Ion:202 Resp: 327485
Ion Ratio Lower Upper
202 100
101 10.9 0.0 30.0
203 18.3 0.0 37.7

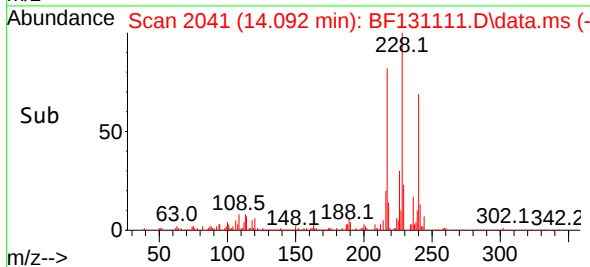
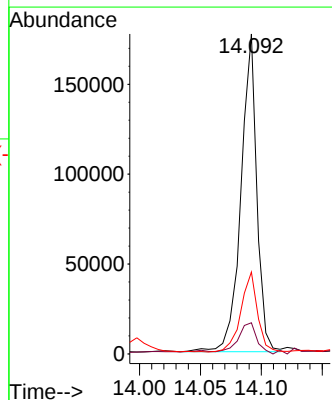
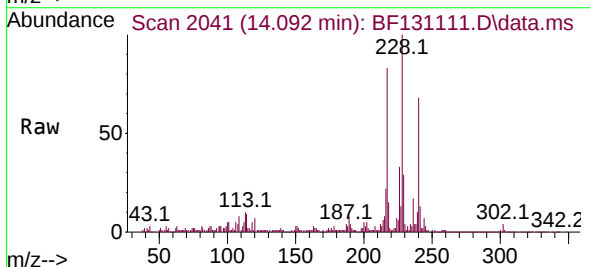
Manual Integrations
APPROVED

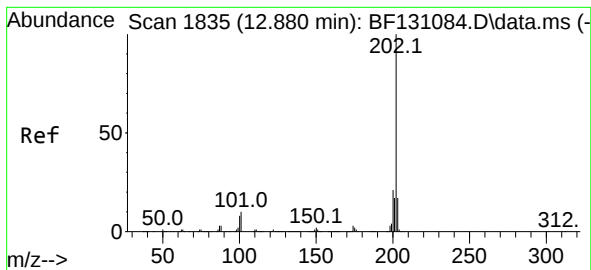
Reviewed By :Christian Giraldo 11/10/2022
Supervised By :Jagrut Upadhyay 11/10/2022



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.092 min Scan# 2041
Delta R.T. 0.012 min
Lab File: BF131111.D
Acq: 10 Nov 2022 03:32

Tgt Ion:240 Resp: 161016
Ion Ratio Lower Upper
240 100
120 9.7 6.5 9.7
236 25.6 19.7 29.5





#78

Pyrene

Concen: 221.528 ng

RT: 12.898 min Scan# 1838

Delta R.T. 0.018 min

Lab File: BF131111.D

Acq: 10 Nov 2022 03:32

Instrument :

BNA_F

ClientSampleId :

PL-03-110722

Tgt Ion:202 Resp: 3060290

Ion Ratio Lower Upper

202 100

200 21.6 16.8 25.2

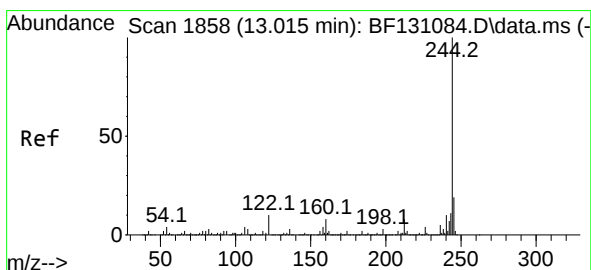
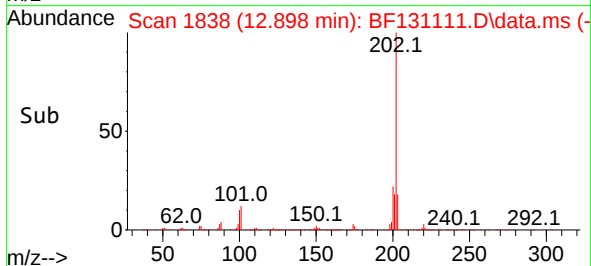
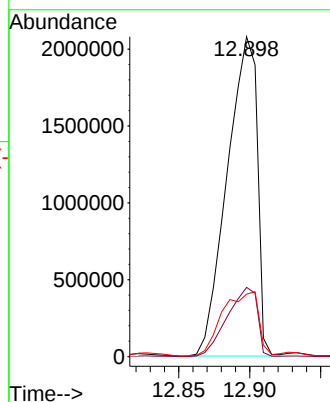
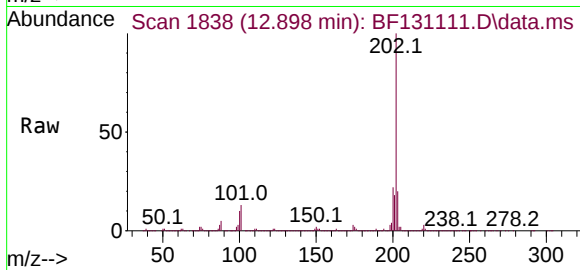
203 19.5 13.6 20.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 11/10/2022

Supervised By :Jagrut Upadhyay 11/10/2022



#79

Terphenyl-d14

Concen: 62.985 ng

RT: 13.021 min Scan# 1859

Delta R.T. 0.006 min

Lab File: BF131111.D

Acq: 10 Nov 2022 03:32

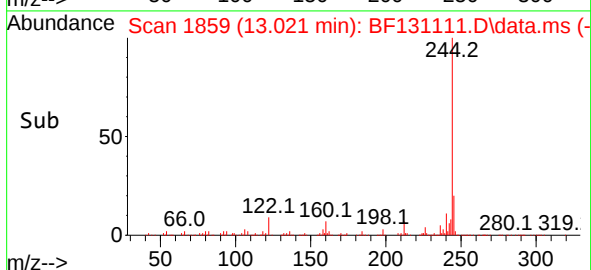
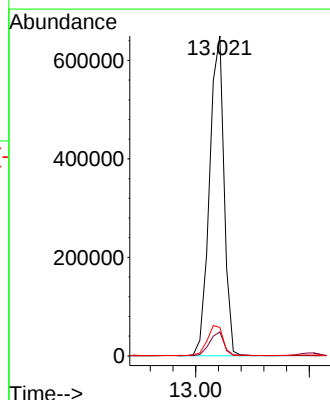
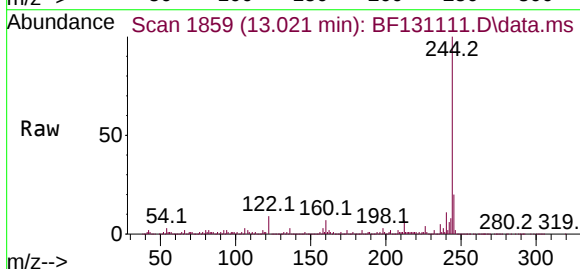
Tgt Ion:244 Resp: 578419

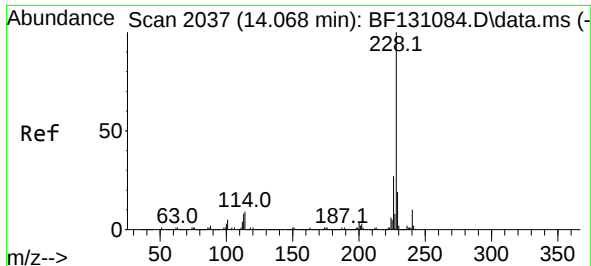
Ion Ratio Lower Upper

244 100

212 7.5 6.2 9.2

122 8.9 7.8 11.8





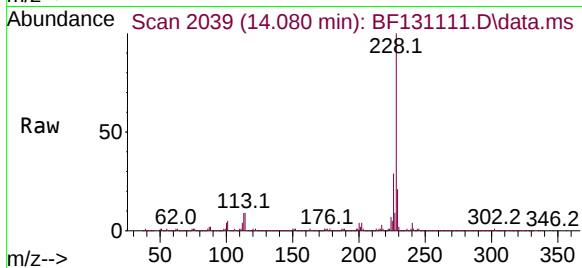
#81
Benzo(a)anthracene
Concen: 149.234 ng
RT: 14.080 min Scan# 2039
Delta R.T. 0.012 min
Lab File: BF131111.D
Acq: 10 Nov 2022 03:32

Instrument :

BNA_F

ClientSampleId :

PL-03-110722

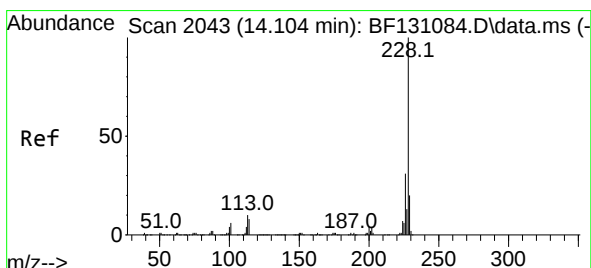
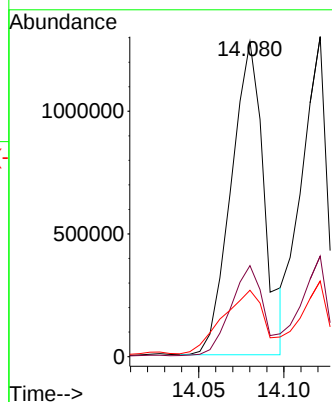
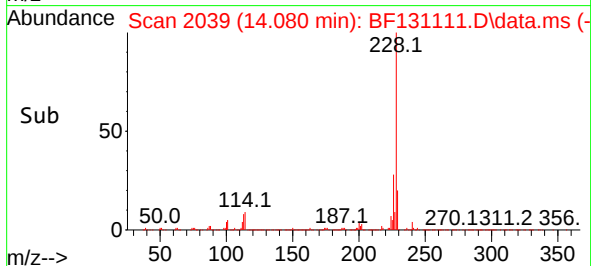


Tgt Ion:228 Resp: 1717520
Ion Ratio Lower Upper
228 100
226 28.9 21.8 32.6
229 21.0 15.4 23.2

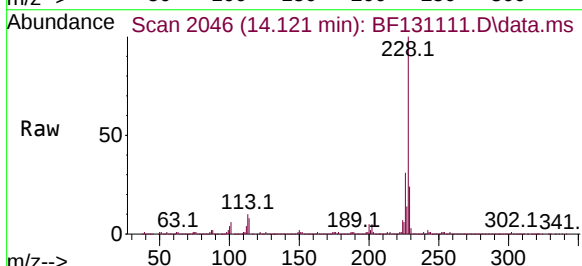
Manual Integrations

APPROVED

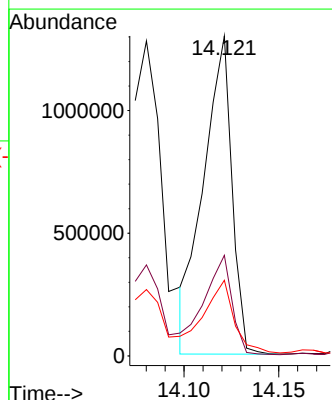
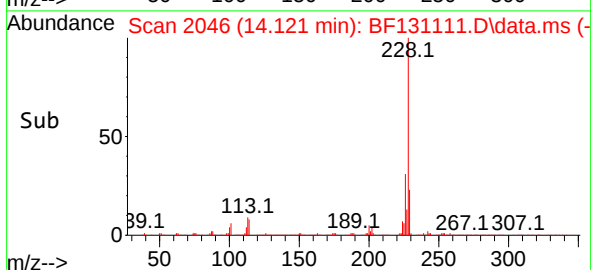
Reviewed By :Christian Giraldo 11/10/2022
Supervised By :Jagrut Upadhyay 11/10/2022

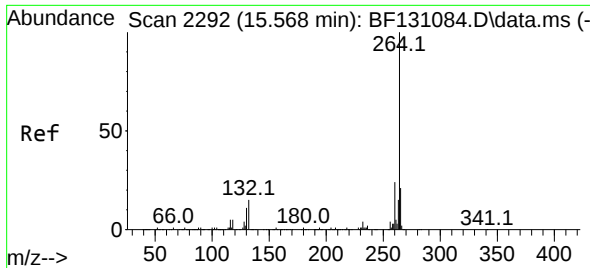


#83
Chrysene
Concen: 124.630 ng
RT: 14.121 min Scan# 2046
Delta R.T. 0.017 min
Lab File: BF131111.D
Acq: 10 Nov 2022 03:32



Tgt Ion:228 Resp: 1354613
Ion Ratio Lower Upper
228 100
226 31.4 24.4 36.6
229 23.6 15.8 23.6





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.586 min Scan# 2292
Delta R.T. 0.018 min
Lab File: BF131111.D
Acq: 10 Nov 2022 03:32

Instrument :

BNA_F

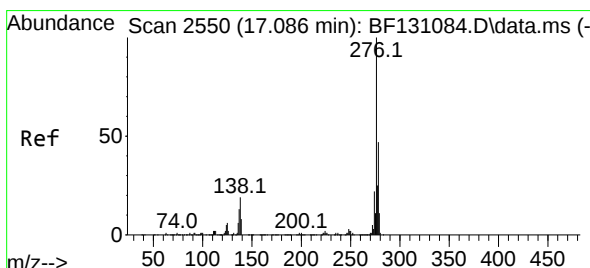
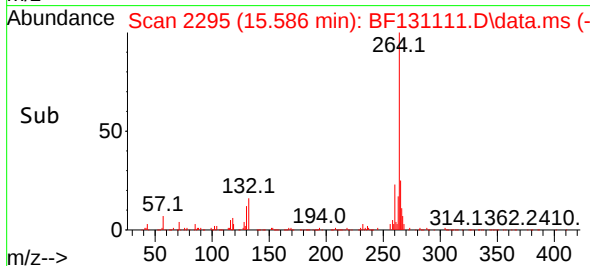
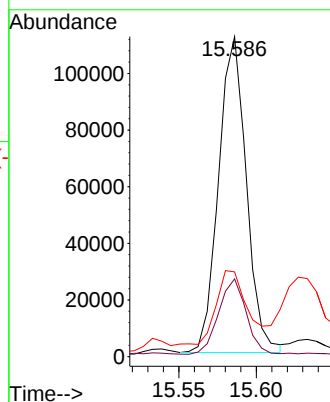
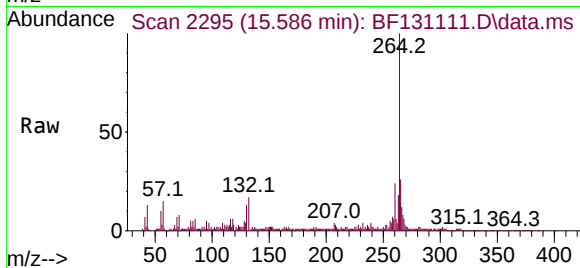
ClientSampleId :

PL-03-110722

Tgt Ion:264 Resp: 139699
Ion Ratio Lower Upper
264 100
260 24.3 19.1 28.7
265 26.5 16.7 25.1

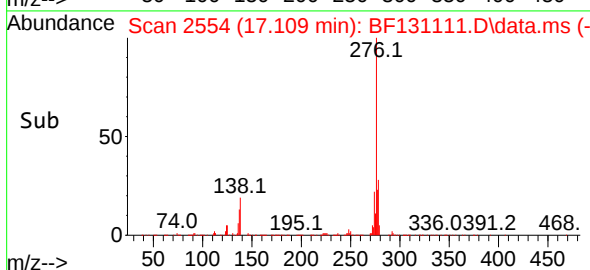
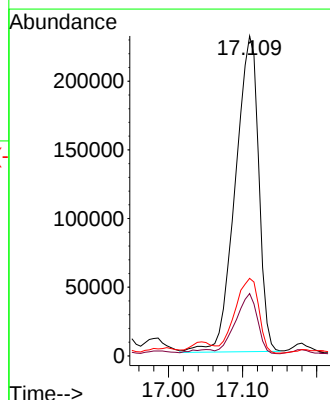
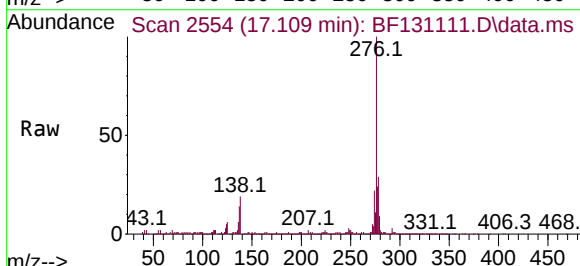
Manual Integrations
APPROVED

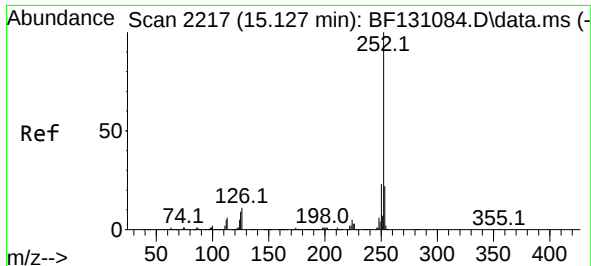
Reviewed By :Christian Giraldo 11/10/2022
Supervised By :Jagrut Upadhyay 11/10/2022



#87
Indeno(1,2,3-cd)pyrene
Concen: 44.411 ng
RT: 17.109 min Scan# 2554
Delta R.T. 0.023 min
Lab File: BF131111.D
Acq: 10 Nov 2022 03:32

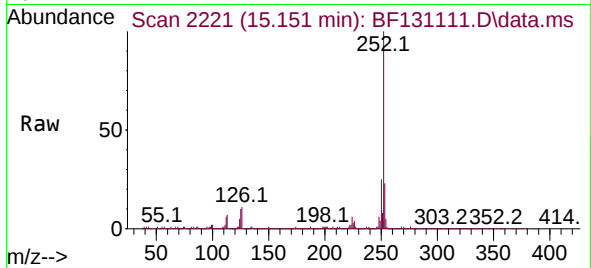
Tgt Ion:276 Resp: 504044
Ion Ratio Lower Upper
276 100
138 17.7 16.9 25.3
277 24.2 20.3 30.5





#88
Benzo(b)fluoranthene
Concen: 147.126 ng m
RT: 15.151 min Scan# 2217
Delta R.T. 0.024 min
Lab File: BF131111.D
Acq: 10 Nov 2022 03:32

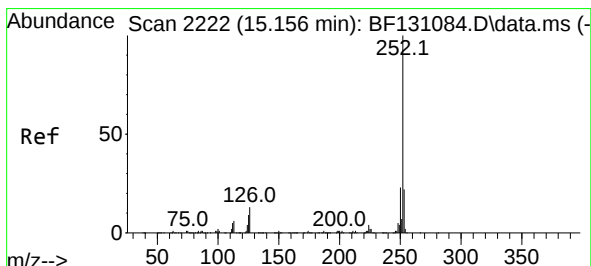
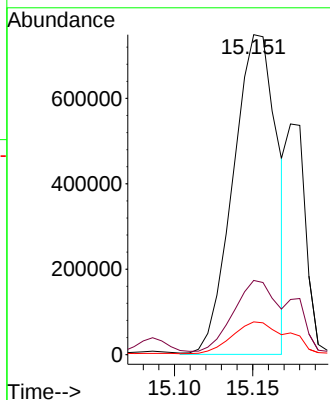
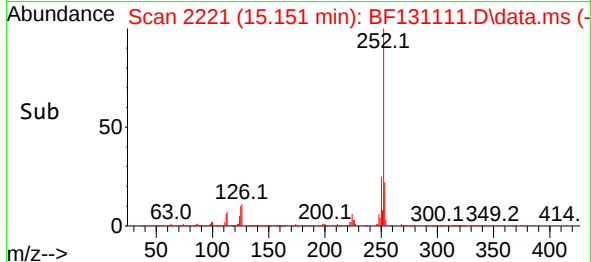
Instrument :
BNA_F
ClientSampleId :
PL-03-110722



Tgt Ion:252 Resp: 145314
Ion Ratio Lower Upper
252 100
253 23.2 17.3 25.9
125 10.2 7.2 10.8

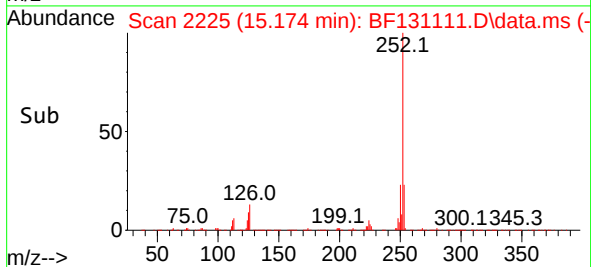
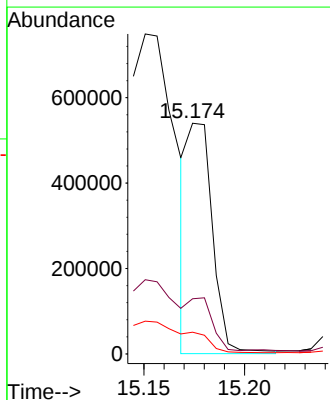
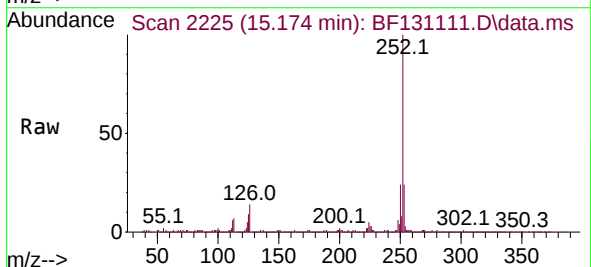
Manual Integrations
APPROVED

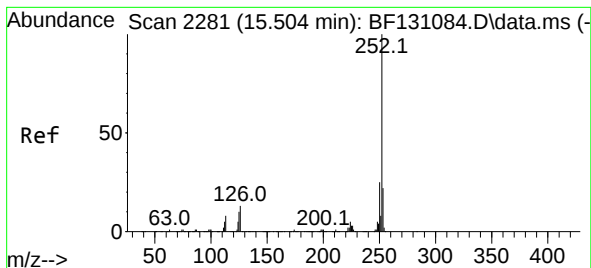
Reviewed By :Christian Giraldo 11/10/2022
Supervised By :Jagrut Upadhyay 11/10/2022



#89
Benzo(k)fluoranthene
Concen: 48.742 ng m
RT: 15.174 min Scan# 2225
Delta R.T. 0.018 min
Lab File: BF131111.D
Acq: 10 Nov 2022 03:32

Tgt Ion:252 Resp: 462721
Ion Ratio Lower Upper
252 100
253 23.9 17.6 26.4
125 9.4 7.5 11.3





#90

Benzo(a)pyrene

Concen: 131.343 ng

RT: 15.533 min Scan# 21

Delta R.T. 0.029 min

Lab File: BF131111.D

Acq: 10 Nov 2022 03:32

Instrument :

BNA_F

ClientSampleId :

PL-03-110722

Tgt Ion:252 Resp: 1040024

Ion Ratio Lower Upper

252 100

253 23.1 17.8 26.8

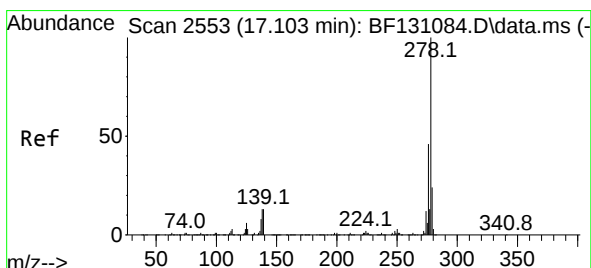
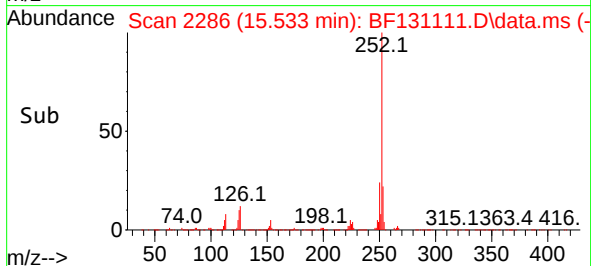
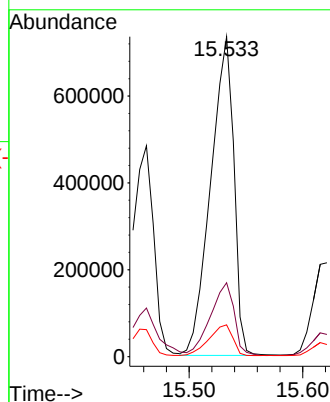
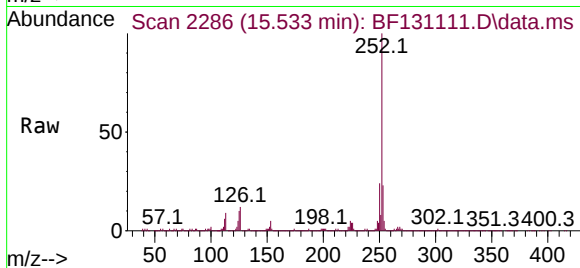
125 9.9 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 11/10/2022

Supervised By :Jagrut Upadhyay 11/10/2022



#91

Dibenzo(a,h)anthracene

Concen: 17.409 ng

RT: 17.115 min Scan# 2555

Delta R.T. 0.012 min

Lab File: BF131111.D

Acq: 10 Nov 2022 03:32

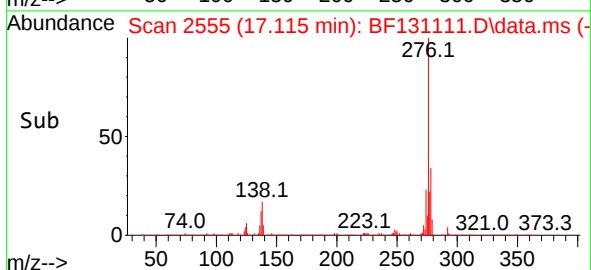
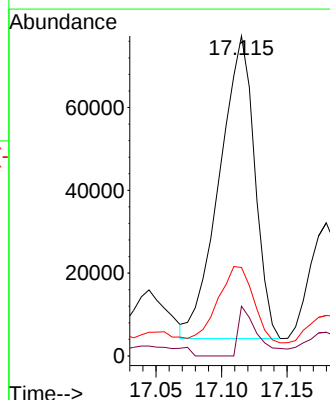
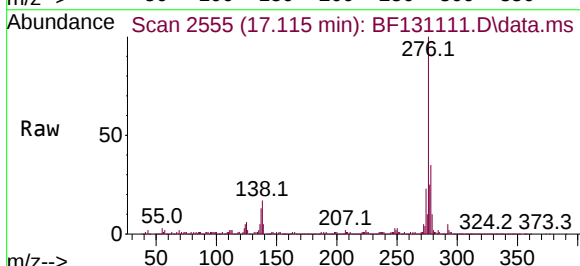
Tgt Ion:278 Resp: 136617

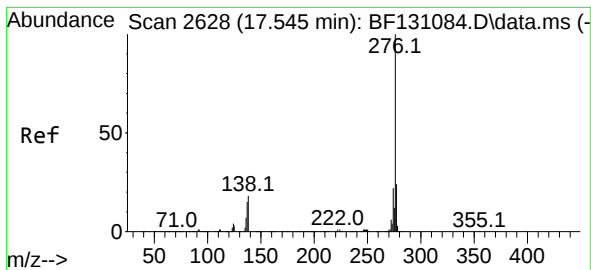
Ion Ratio Lower Upper

278 100

139 15.5 10.8 16.2

279 27.6 19.2 28.8





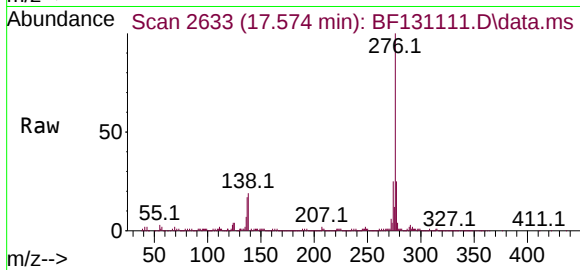
#92
 Benzo(g,h,i)perylene
 Concen: 46.793 ng
 RT: 17.574 min Scan# 2633
 Delta R.T. 0.029 min
 Lab File: BF131111.D
 Acq: 10 Nov 2022 03:32

Instrument :

BNA_F

ClientSampleId :

PL-03-110722



Tgt Ion:276 Resp: 458526
 Ion Ratio Lower Upper
 276 100
 277 25.5 19.0 28.4
 138 18.8 14.6 21.8

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 11/10/2022
 Supervised By :Jagrut Upadhyay 11/10/2022

