

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042523\
 Data File : BF133042.D
 Acq On : 25 Apr 2023 23:00
 Operator : CG\JU
 Sample : 02477-03
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 W-H4(ELEV-22)

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 04/26/2023
 Supervised By : Jagrut Upadhyay 04/26/2023

Quant Time: Apr 26 02:19:05 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 25 18:24:07 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.740	152	194606	20.000	ng	0.00
21) Naphthalene-d8	8.022	136	755812	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	401467	20.000	ng	0.00
64) Phenanthrene-d10	11.257	188	706703	20.000	ng	0.00
76) Chrysene-d12	13.892	240	407725	20.000	ng	0.00
86) Perylene-d12	15.316	264	400214	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.346	112	913668	70.923	ng	0.00
7) Phenol-d6	6.375	99	1134856	70.973	ng	-0.01
23) Nitrobenzene-d5	7.298	82	670265	47.867	ng	-0.01
42) 2,4,6-Tribromophenol	10.563	330	268870	66.593	ng	0.00
45) 2-Fluorobiphenyl	9.098	172	1209300	50.394	ng	-0.01
79) Terphenyl-d14	12.845	244	1237167	52.332	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.045	128	361224	9.559	ng	100
37) 2-Methylnaphthalene	8.734	142	63455	2.456	ng	99
38) 1-Methylnaphthalene	8.834	142	49216	2.036	ng	98
52) Acenaphthene	9.804	154	63886	2.562	ng	99
55) Dibenzofuran	9.975	168	75308	2.214	ng	98
58) Fluorene	10.316	166	107915	4.330	ng	98
71) Phenanthrene	11.281	178	969760	25.531	ng	99
72) Anthracene	11.328	178	251050	6.458	ng	98
73) Carbazole	11.480	167	72260	2.088	ng	99
75) Fluoranthene	12.469	202	1091160	28.624	ng	98
78) Pyrene	12.698	202	1014423	29.024	ng	100
81) Benzo(a)anthracene	13.880	228	395657	14.111	ng	98
83) Chrysene	13.916	228	327992	11.701	ng	98
87) Indeno(1,2,3-cd)pyrene	16.680	276	182635	8.023	ng	92
88) Benzo(b)fluoranthene	14.904	252	339642m	13.340	ng	
89) Benzo(k)fluoranthene	14.927	252	116671m	4.623	ng	
90) Benzo(a)pyrene	15.251	252	273527	11.803	ng	99
91) Dibenzo(a,h)anthracene	16.692	278	47987	2.527	ng	96
92) Benzo(g,h,i)perylene	17.098	276	172770	9.217	ng	98

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

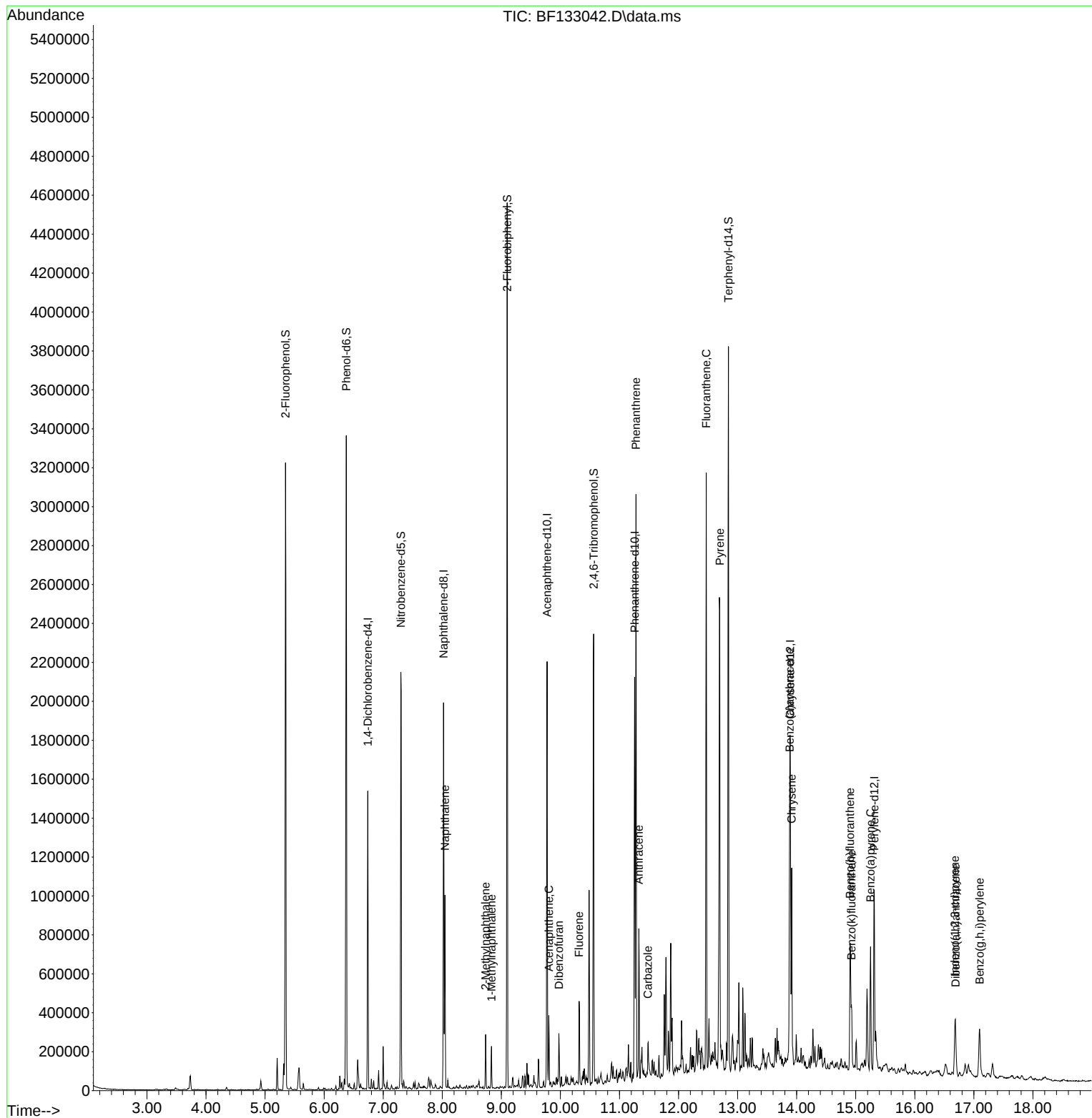
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042523\
Data File : BF133042.D
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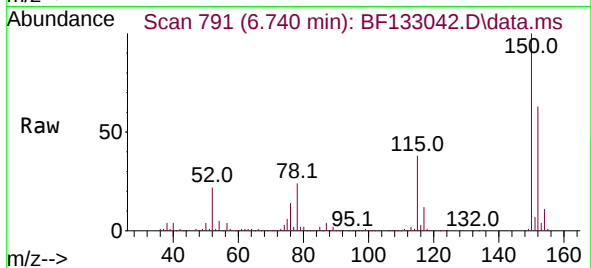
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.740 min Scan# 793
Delta R.T. -0.005 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00

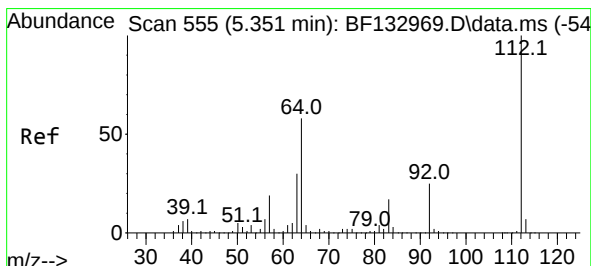
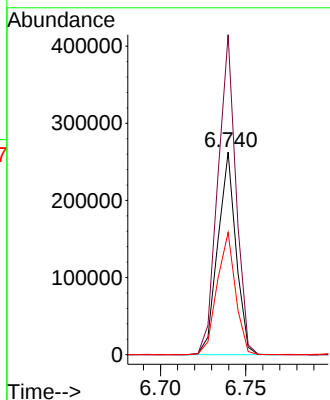
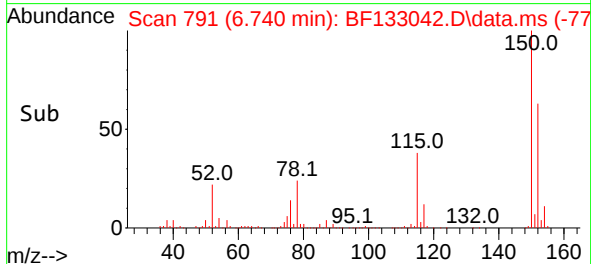
Instrument :
BNA_F
ClientSampleId :
W-H4(ELEV-22)



Tgt Ion:152 Resp: 194600
Ion Ratio Lower Upper
152 100
150 158.0 124.8 187.2
115 60.4 49.9 74.9

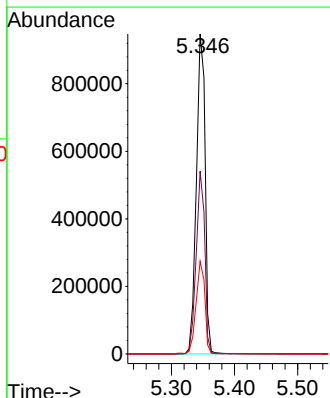
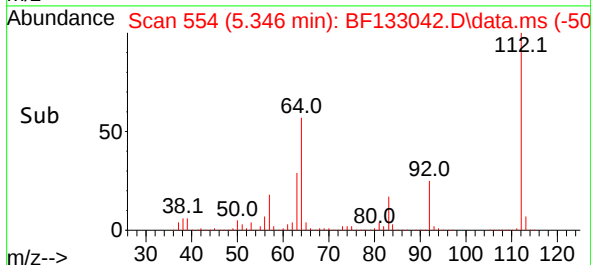
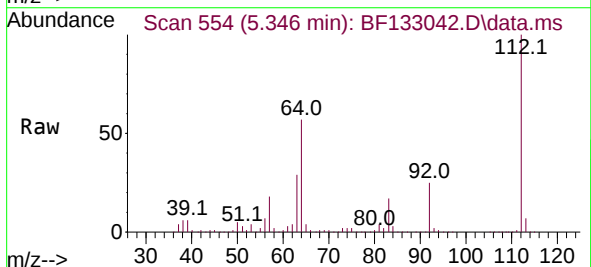
Manual Integrations
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Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#5
2-Fluorophenol
Concen: 70.923 ng
RT: 5.346 min Scan# 554
Delta R.T. -0.006 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00

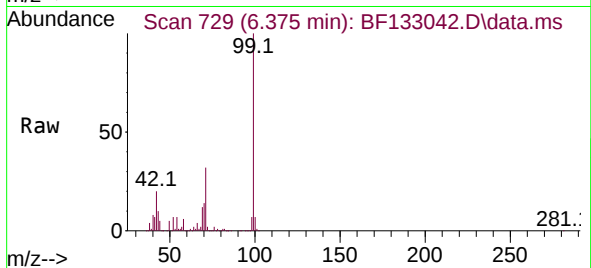
Tgt Ion:112 Resp: 913668
Ion Ratio Lower Upper
112 100
64 57.1 46.8 70.2
63 29.0 23.8 35.8





#7
Phenol-d6
Concen: 70.973 ng
RT: 6.375 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00

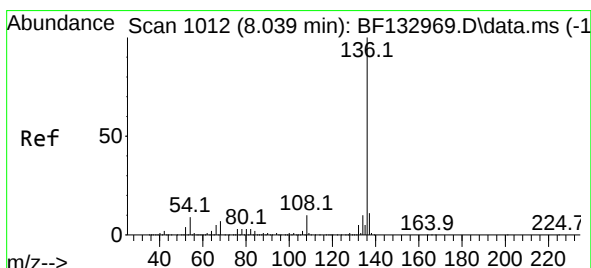
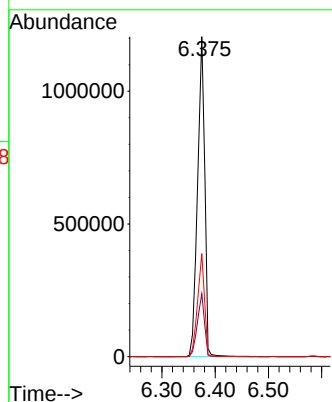
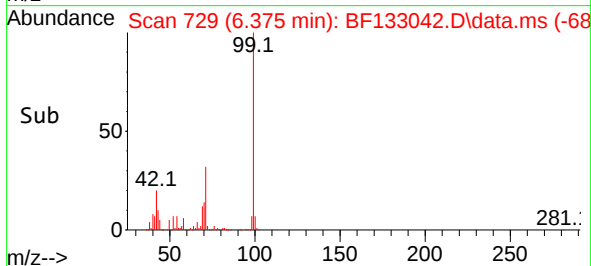
Instrument :
BNA_F
ClientSampleId :
W-H4(ELEV-22)



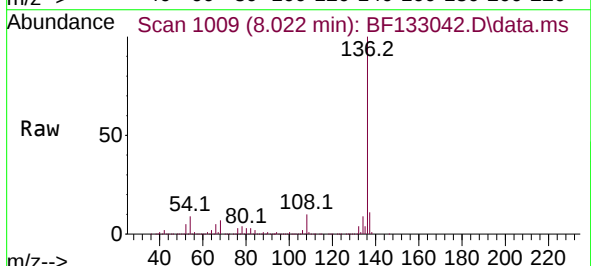
Tgt Ion: 99 Resp: 1134850
Ion Ratio Lower Upper
99 100
42 19.7 16.3 24.5
71 32.2 25.6 38.4

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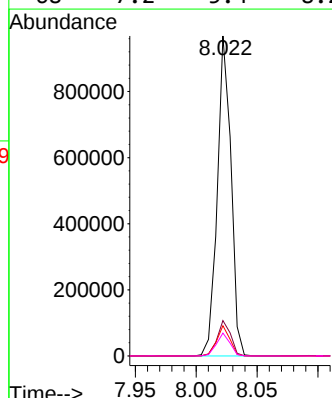
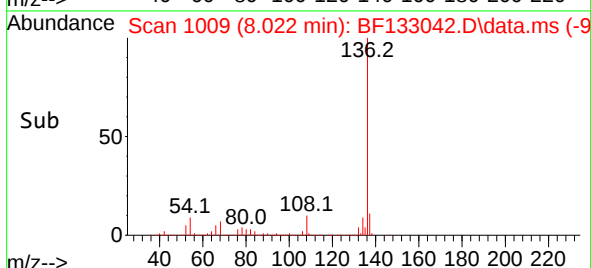
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023

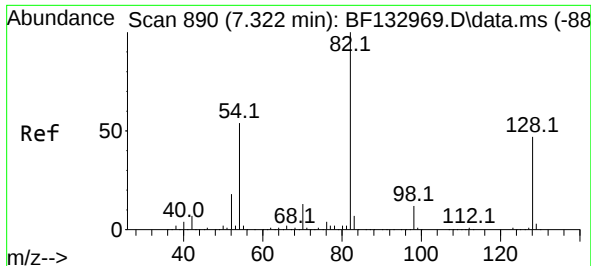


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.022 min Scan# 1009
Delta R.T. -0.006 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00



Tgt Ion:136 Resp: 755812
Ion Ratio Lower Upper
136 100
137 11.1 8.6 13.0
54 9.5 7.0 10.4
68 7.2 5.4 8.2





#23

Nitrobenzene-d5

Concen: 47.867 ng

RT: 7.298 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF133042.D

Acq: 25 Apr 2023 23:00

Instrument :

BNA_F

ClientSampleId :

W-H4(ELEV-22)

Tgt Ion: 82 Resp: 67026

Ion Ratio Lower Upper

82 100

128 45.3 37.7 56.5

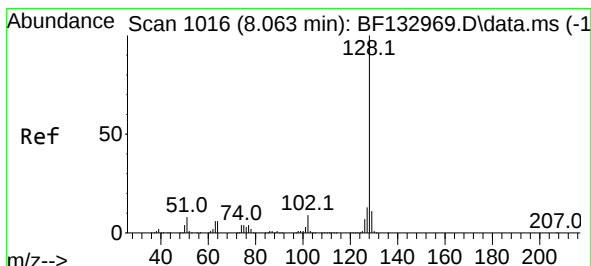
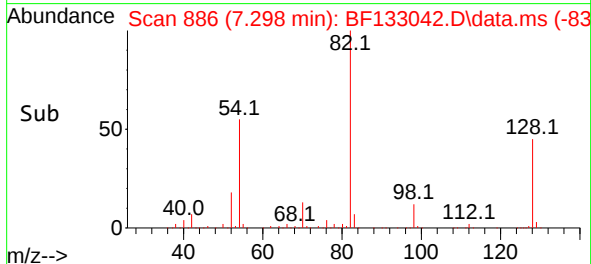
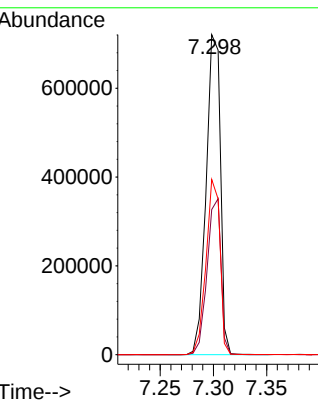
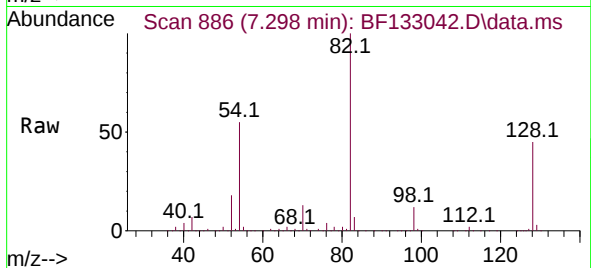
54 54.7 43.0 64.4

Manual Integrations

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Reviewed By :Christian Giraldo 04/26/2023

Supervised By :Jagrut Upadhyay 04/26/2023



#31

Naphthalene

Concen: 9.559 ng

RT: 8.045 min Scan# 1013

Delta R.T. -0.006 min

Lab File: BF133042.D

Acq: 25 Apr 2023 23:00

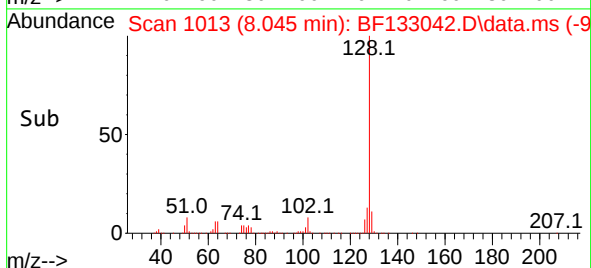
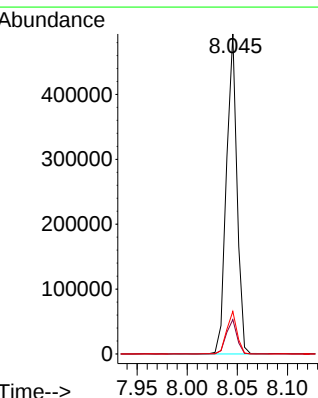
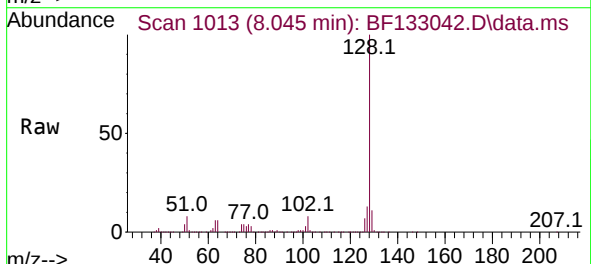
Tgt Ion:128 Resp: 361224

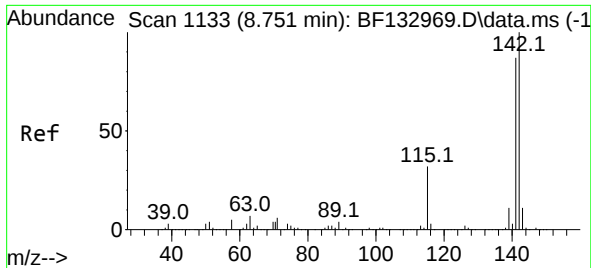
Ion Ratio Lower Upper

128 100

129 10.8 8.8 13.2

127 13.3 10.7 16.1





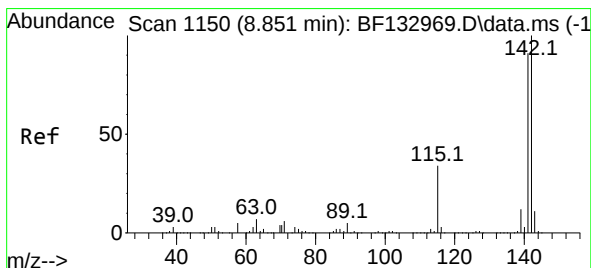
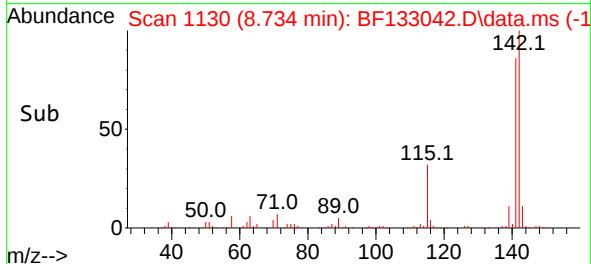
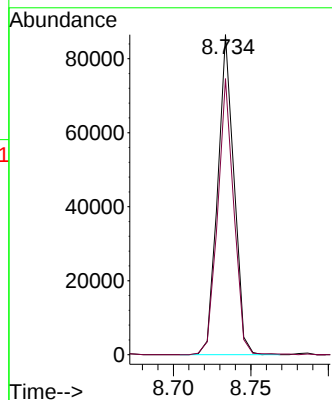
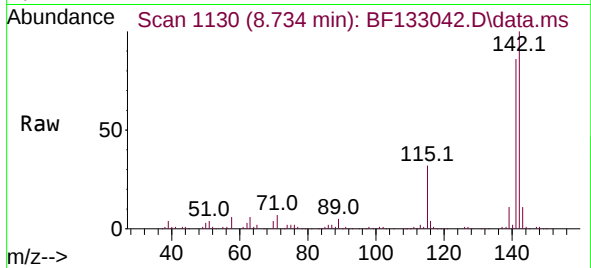
#37
2-Methylnaphthalene
Concen: 2.456 ng
RT: 8.734 min Scan# 1147
Delta R.T. -0.006 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00

Instrument :
BNA_F
ClientSampleId :
W-H4(ELEV-22)

Tgt Ion:142 Resp: 6345
Ion Ratio Lower Upper
142 100
141 86.2 69.4 104.0

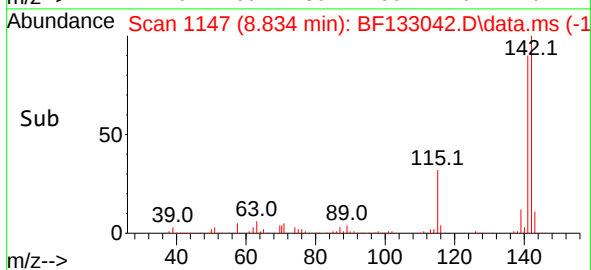
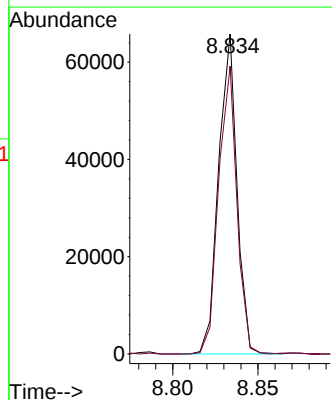
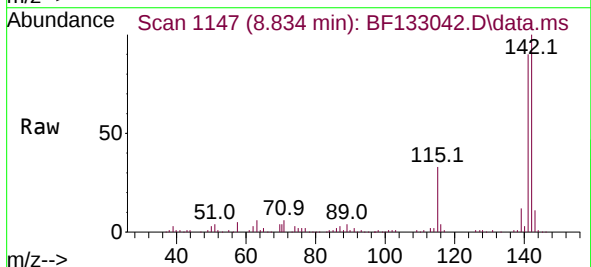
Manual Integrations
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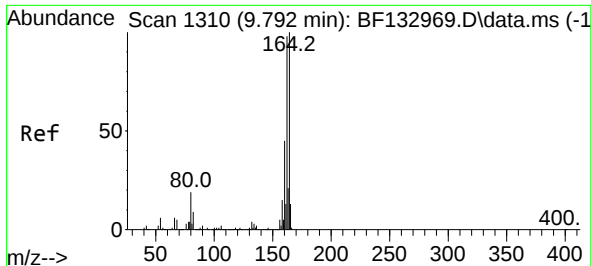
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#38
1-Methylnaphthalene
Concen: 2.036 ng
RT: 8.834 min Scan# 1147
Delta R.T. -0.006 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00

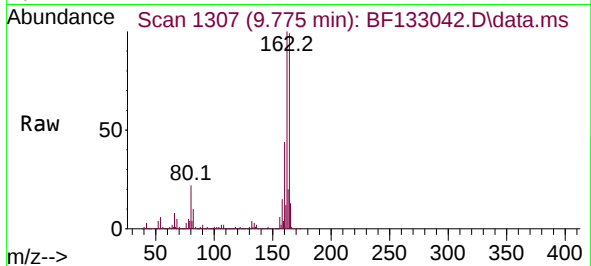
Tgt Ion:142 Resp: 49216
Ion Ratio Lower Upper
142 100
141 90.0 73.1 109.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.775 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00

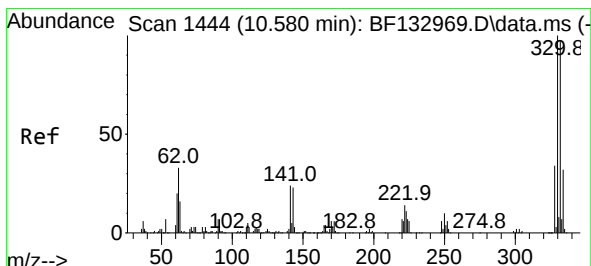
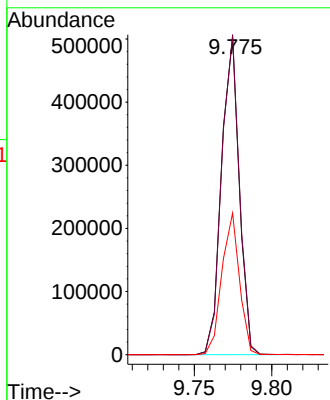
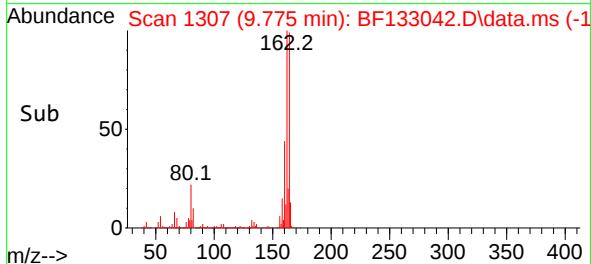
Instrument :
BNA_F
ClientSampleId :
W-H4(ELEV-22)



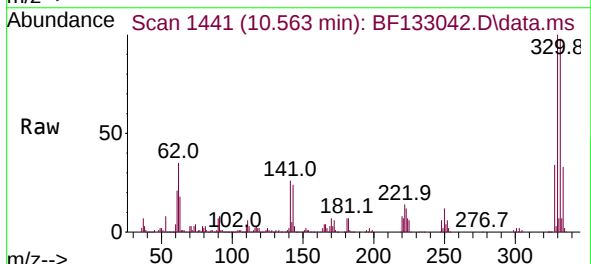
Tgt Ion:164 Resp: 40146
Ion Ratio Lower Upper
164 100
162 100.7 78.7 118.1
160 44.6 35.8 53.6

Manual Integrations
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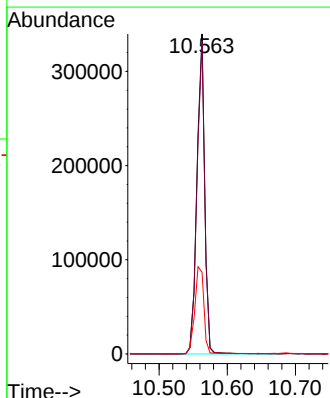
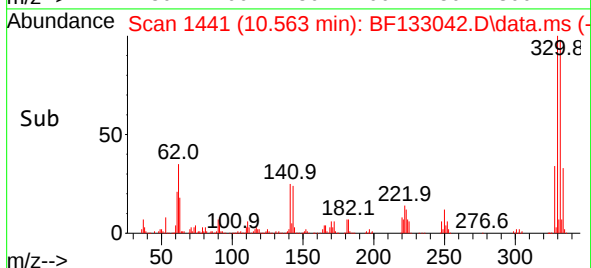
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023

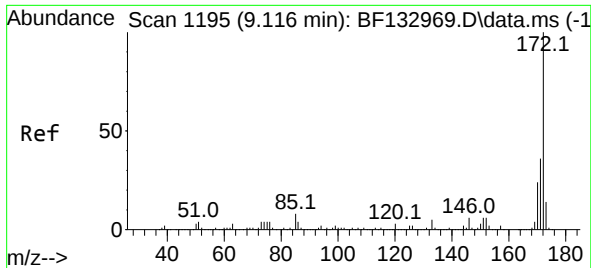


#42
2,4,6-Tribromophenol
Concen: 66.593 ng
RT: 10.563 min Scan# 1441
Delta R.T. -0.006 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00



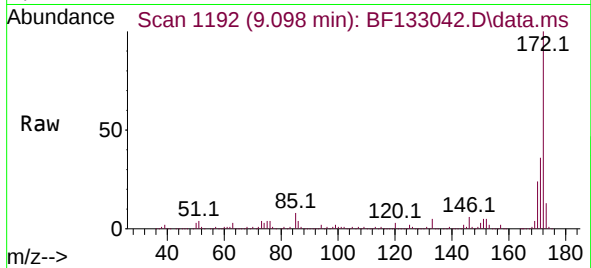
Tgt Ion:330 Resp: 268870
Ion Ratio Lower Upper
330 100
332 96.9 77.1 115.7
141 32.5 25.8 38.8





#45
2-Fluorobiphenyl
Concen: 50.394 ng
RT: 9.098 min Scan# 1195
Delta R.T. -0.012 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00

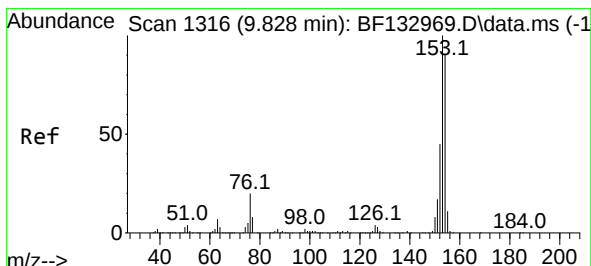
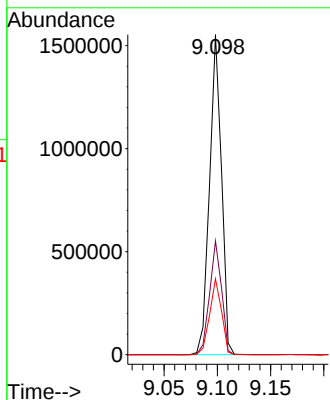
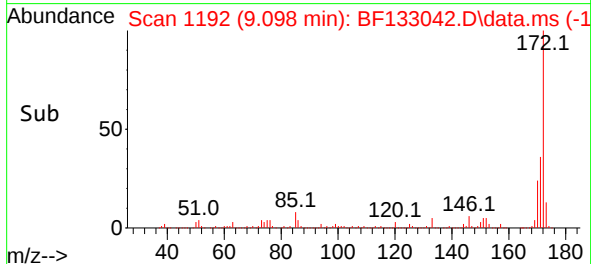
Instrument :
BNA_F
ClientSampleId :
W-H4(ELEV-22)



Tgt Ion:172 Resp: 1209300
Ion Ratio Lower Upper
172 100
171 35.6 28.8 43.2
170 23.7 19.4 29.2

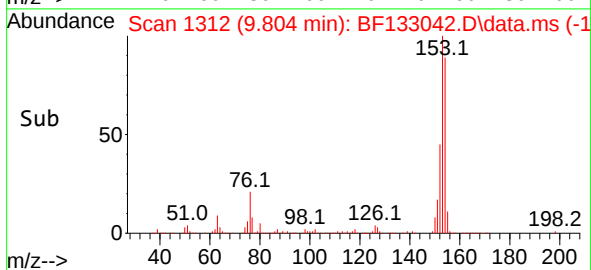
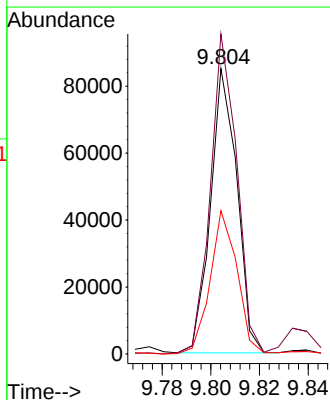
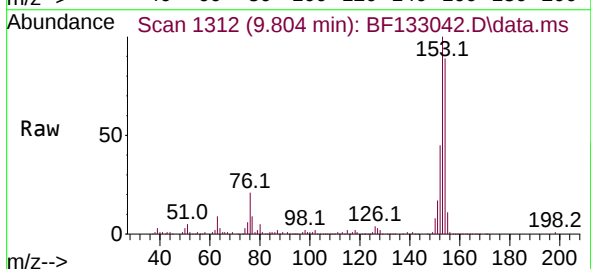
Manual Integrations
APPROVED

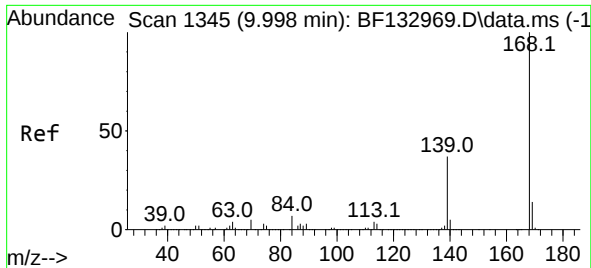
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#52
Acenaphthene
Concen: 2.562 ng
RT: 9.804 min Scan# 1312
Delta R.T. -0.012 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00

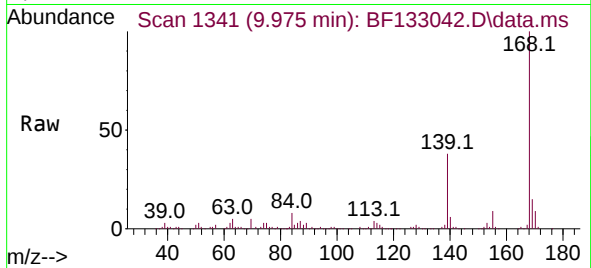
Tgt Ion:154 Resp: 63886
Ion Ratio Lower Upper
154 100
153 112.1 89.0 133.6
152 50.1 40.4 60.6





#55
Dibenzenofuran
Concen: 2.214 ng
RT: 9.975 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00

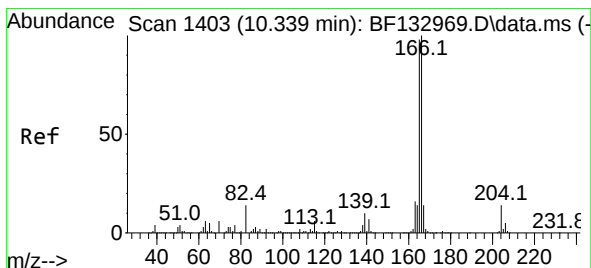
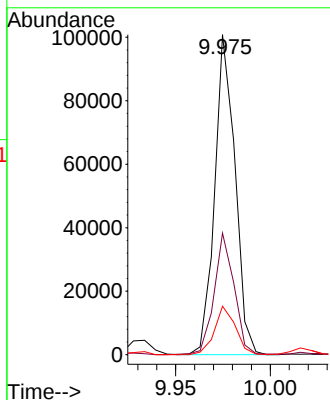
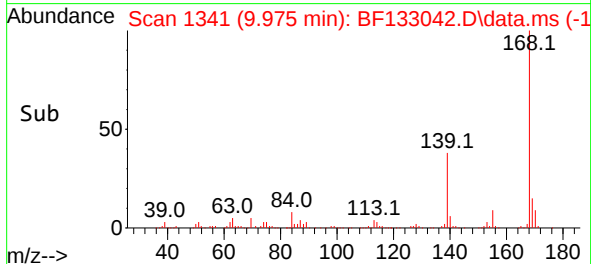
Instrument :
BNA_F
ClientSampleId :
W-H4(ELEV-22)



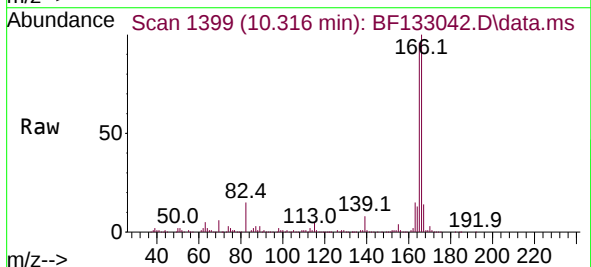
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Ion Ratio Lower Upper
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139 38.0 29.8 44.8
169 15.1 10.8 16.2

Manual Integrations
APPROVED

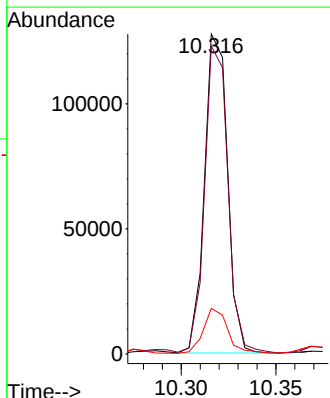
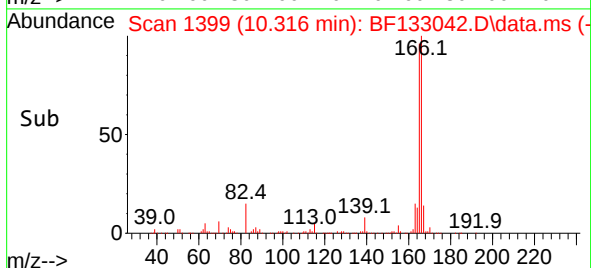
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023

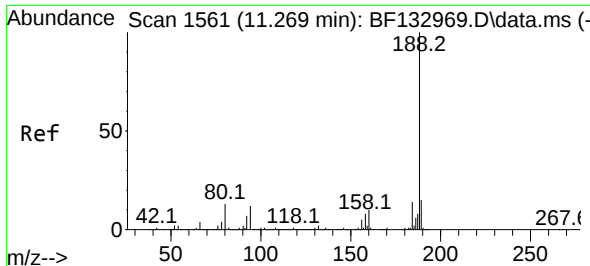


#58
Fluorene
Concen: 4.330 ng
RT: 10.316 min Scan# 1399
Delta R.T. -0.012 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00



Tgt Ion:166 Resp: 107915
Ion Ratio Lower Upper
166 100
165 96.2 78.6 117.8
167 14.3 11.0 16.4





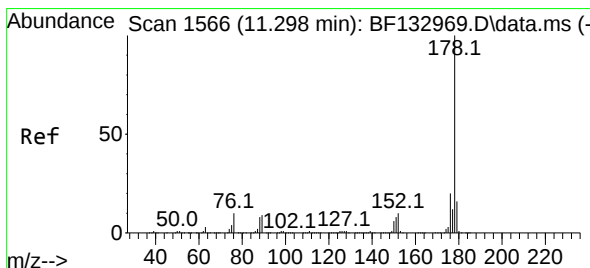
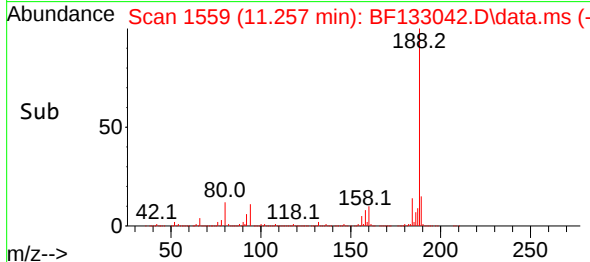
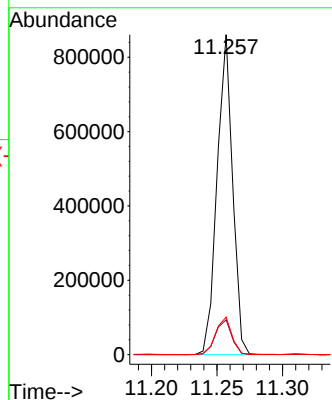
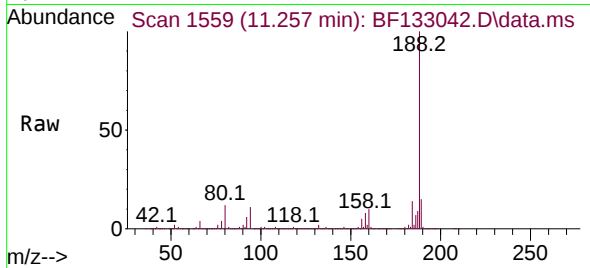
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.257 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00

Instrument :
BNA_F
ClientSampleId :
W-H4(ELEV-22)

Tgt Ion:188 Resp: 70670
Ion Ratio Lower Upper
188 100
94 10.9 9.7 14.5
80 11.8 10.4 15.6

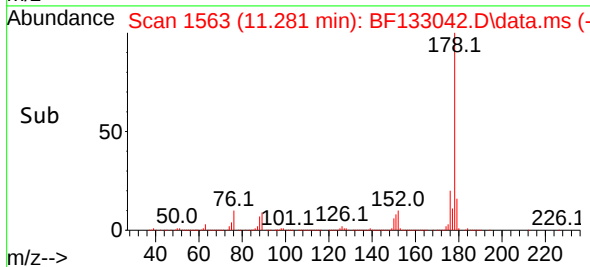
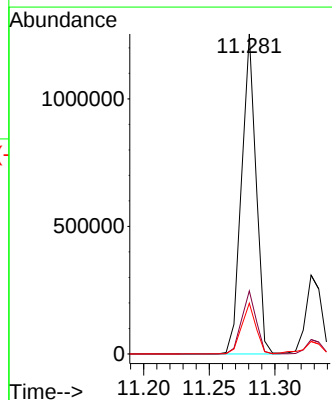
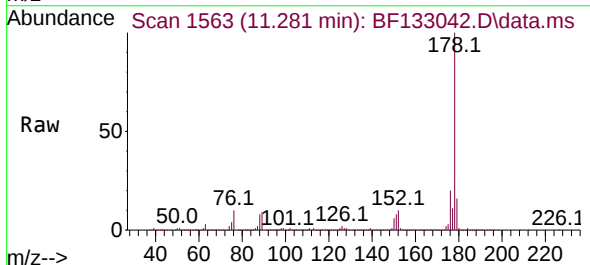
Manual Integrations
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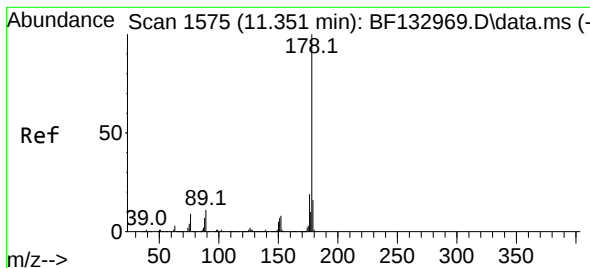
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#71
Phenanthrene
Concen: 25.531 ng
RT: 11.281 min Scan# 1563
Delta R.T. -0.006 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00

Tgt Ion:178 Resp: 969760
Ion Ratio Lower Upper
178 100
176 19.7 15.9 23.9
179 15.8 12.5 18.7





#72

Anthracene

Concen: 6.458 ng

RT: 11.328 min Scan# 1571

Delta R.T. -0.012 min

Lab File: BF133042.D

Acq: 25 Apr 2023 23:00

Instrument :

BNA_F

ClientSampleId :

W-H4(ELEV-22)

Tgt Ion:178 Resp: 251050

Ion Ratio Lower Upper

178 100

176 18.3 15.4 23.0

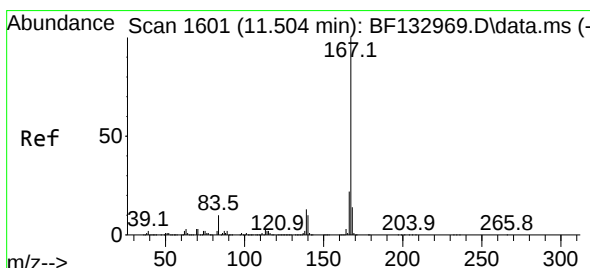
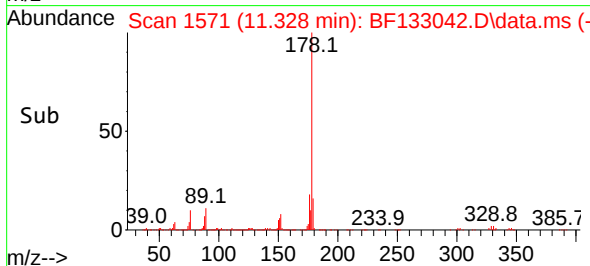
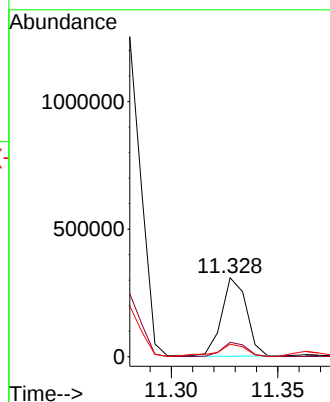
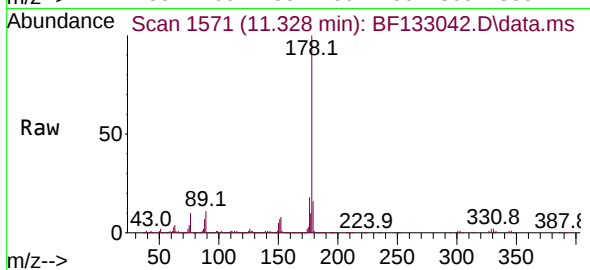
179 15.9 12.4 18.6

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Reviewed By :Christian Giraldo 04/26/2023

Supervised By :Jagrut Upadhyay 04/26/2023



#73

Carbazole

Concen: 2.088 ng

RT: 11.480 min Scan# 1597

Delta R.T. -0.012 min

Lab File: BF133042.D

Acq: 25 Apr 2023 23:00

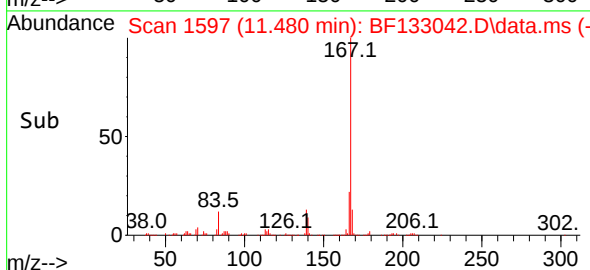
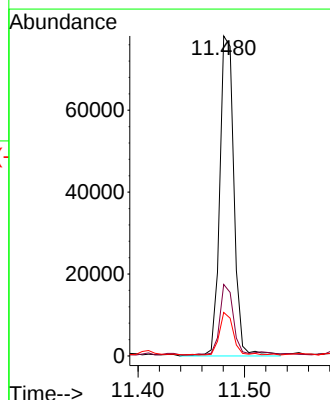
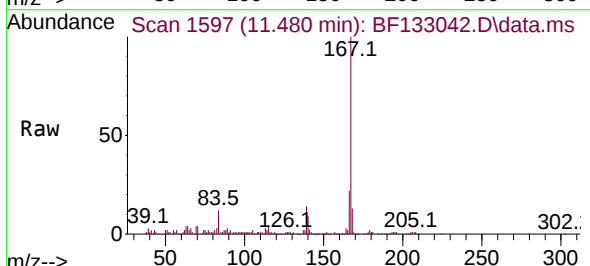
Tgt Ion:167 Resp: 72260

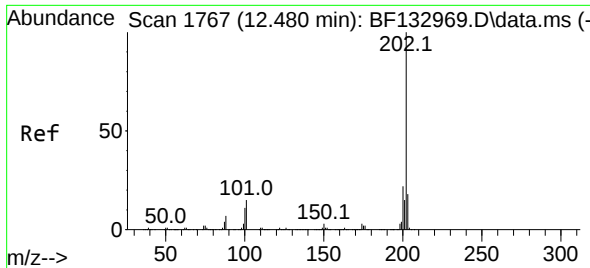
Ion Ratio Lower Upper

167 100

166 22.3 17.4 26.0

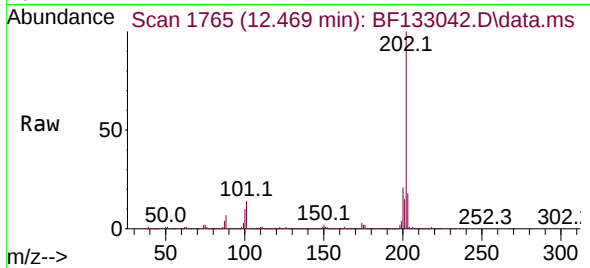
139 13.6 10.6 16.0





#75
Fluoranthene
Concen: 28.624 ng
RT: 12.469 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00

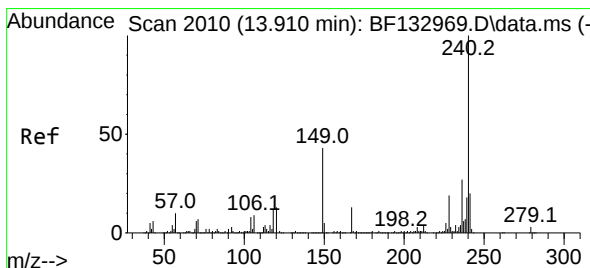
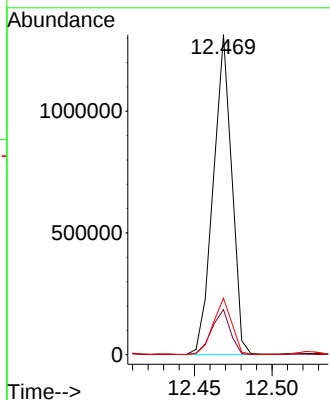
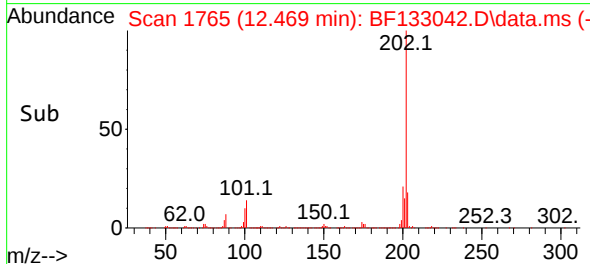
Instrument :
BNA_F
ClientSampleId :
W-H4(ELEV-22)



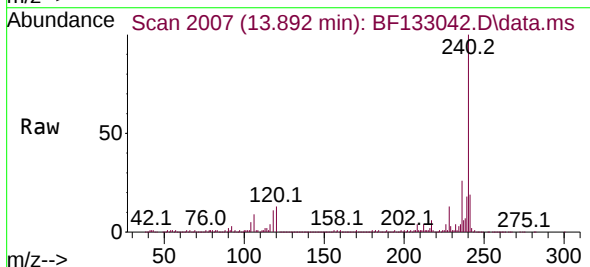
Tgt Ion:202 Resp: 1091160
Ion Ratio Lower Upper
202 100
101 14.1 0.0 35.3
203 17.6 0.0 38.1

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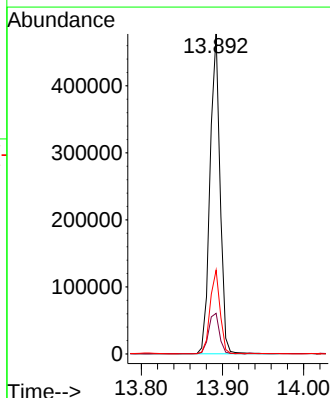
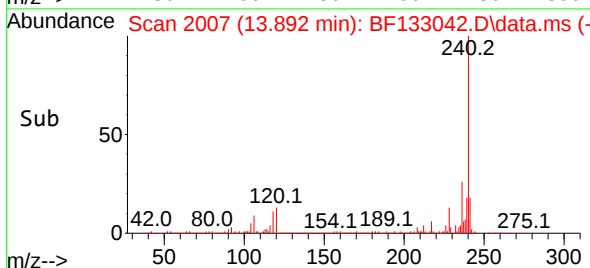
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023

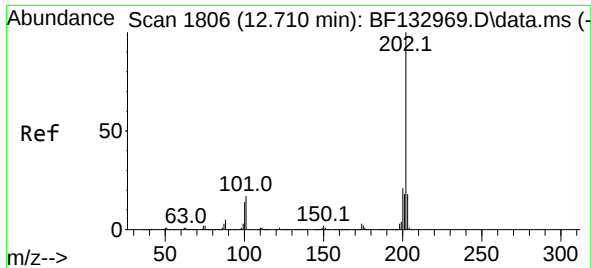


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.892 min Scan# 2007
Delta R.T. -0.006 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00



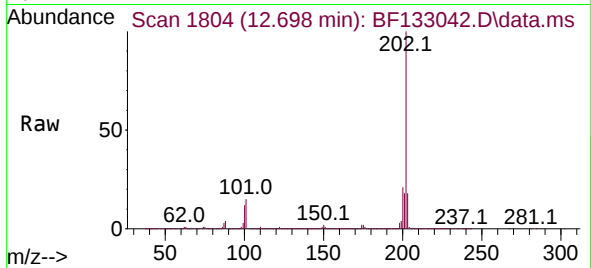
Tgt Ion:240 Resp: 407725
Ion Ratio Lower Upper
240 100
120 12.7 10.5 15.7
236 26.2 21.5 32.3





#78
 Pyrene
 Concen: 29.024 ng
 RT: 12.698 min Scan# 1804
 Delta R.T. 0.000 min
 Lab File: BF133042.D
 Acq: 25 Apr 2023 23:00

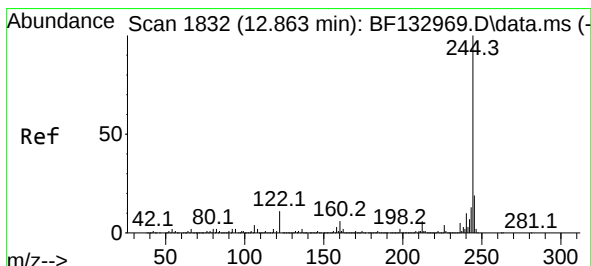
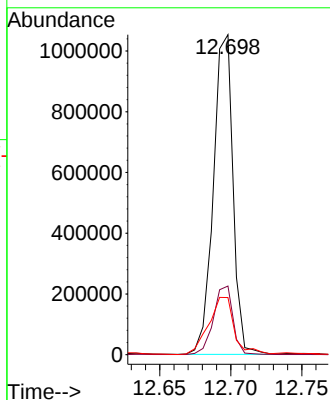
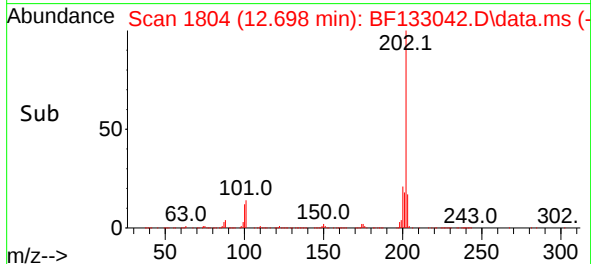
Instrument :
 BNA_F
 ClientSampleId :
 W-H4(ELEV-22)



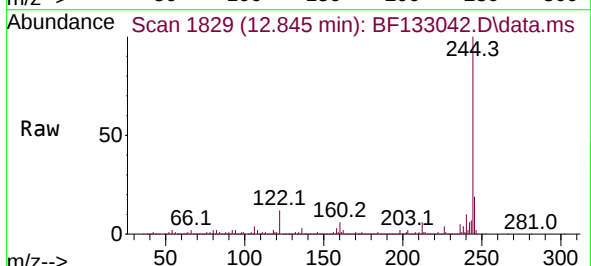
Tgt Ion:202 Resp: 101442
 Ion Ratio Lower Upper
 202 100
 200 21.5 17.1 25.7
 203 17.9 14.1 21.1

Manual Integrations
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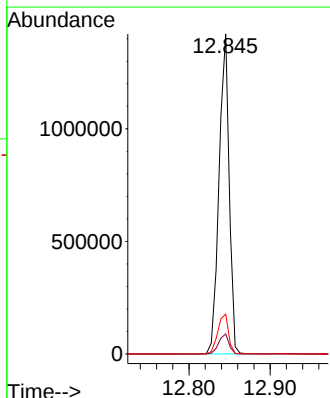
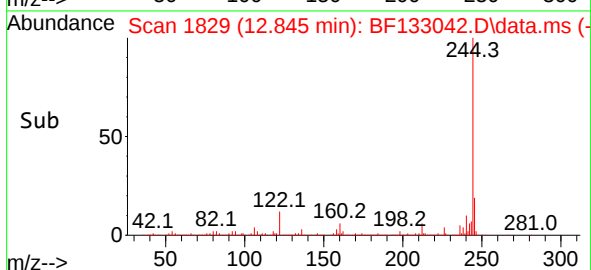
Reviewed By :Christian Giraldo 04/26/2023
 Supervised By :Jagrut Upadhyay 04/26/2023

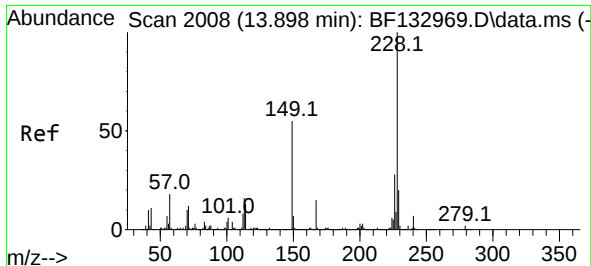


#79
 Terphenyl-d14
 Concen: 52.332 ng
 RT: 12.845 min Scan# 1829
 Delta R.T. -0.006 min
 Lab File: BF133042.D
 Acq: 25 Apr 2023 23:00



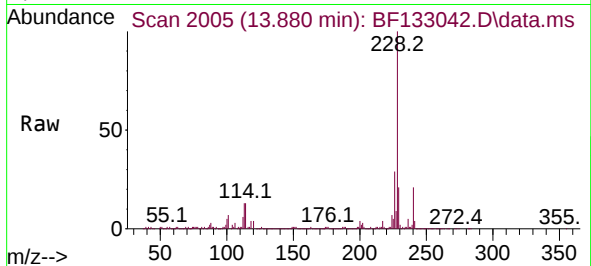
Tgt Ion:244 Resp: 1237167
 Ion Ratio Lower Upper
 244 100
 212 6.3 5.1 7.7
 122 12.4 8.6 13.0





#81
Benzo(a)anthracene
Concen: 14.111 ng
RT: 13.880 min Scan# 2010
Delta R.T. -0.006 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00

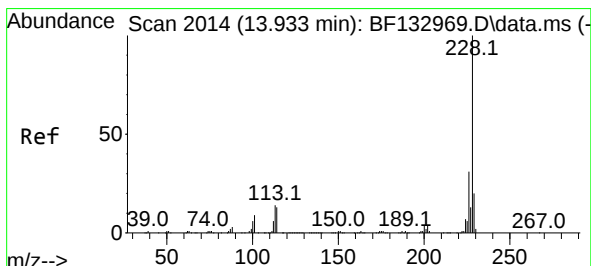
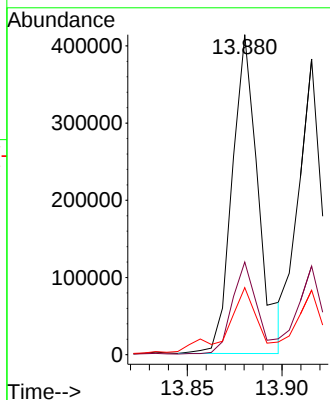
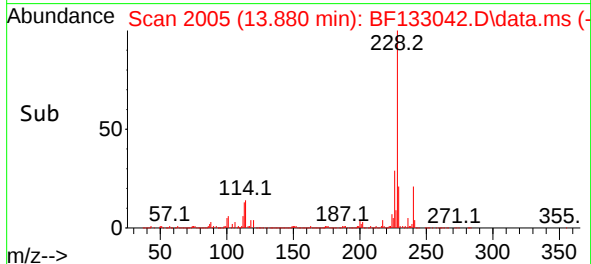
Instrument :
BNA_F
ClientSampleId :
W-H4(ELEV-22)



Tgt Ion:228 Resp: 39565
Ion Ratio Lower Upper
228 100
226 28.9 22.2 33.4
229 21.0 16.0 24.0

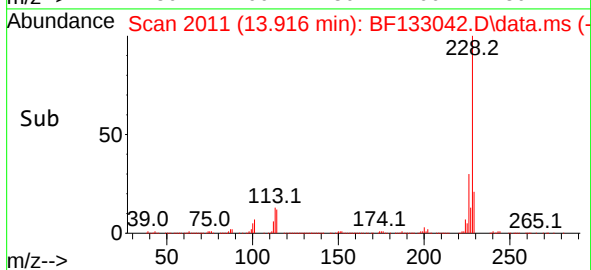
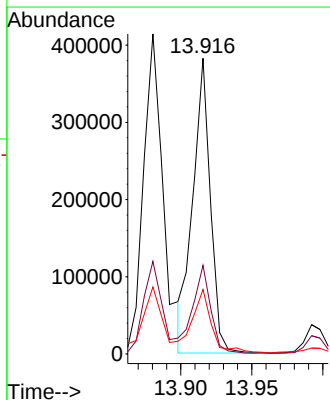
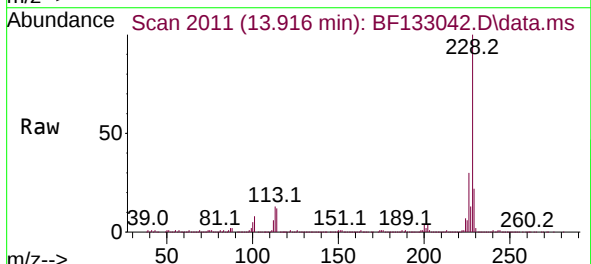
Manual Integrations
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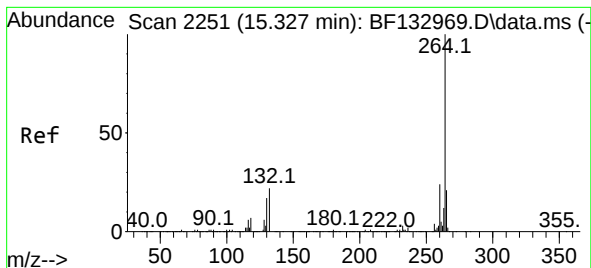
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#83
Chrysene
Concen: 11.701 ng
RT: 13.916 min Scan# 2011
Delta R.T. -0.012 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00

Tgt Ion:228 Resp: 327992
Ion Ratio Lower Upper
228 100
226 30.0 24.7 37.1
229 21.8 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.316 min Scan# 2249

Delta R.T. 0.000 min

Lab File: BF133042.D

Acq: 25 Apr 2023 23:00

Instrument :

BNA_F

ClientSampleId :

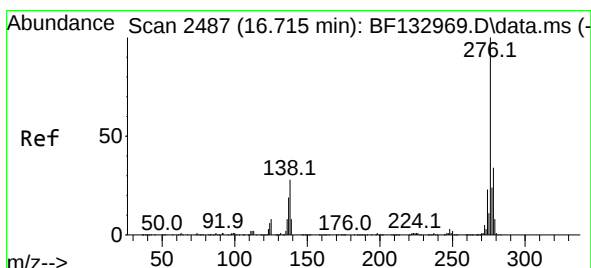
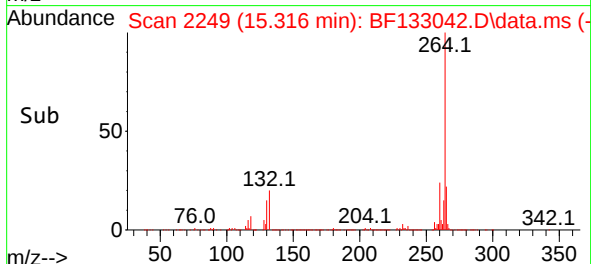
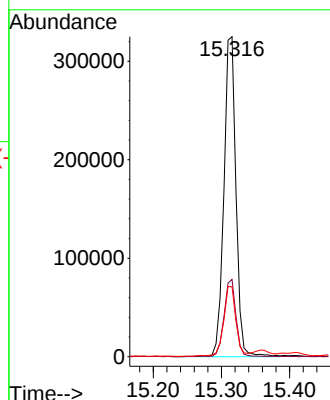
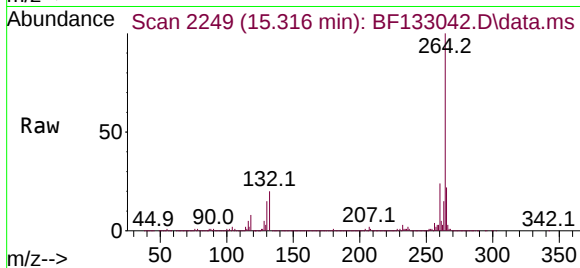
W-H4(ELEV-22)

Tgt Ion:264 Resp: 400214
 Ion Ratio Lower Upper
 264 100
 260 24.1 18.8 28.2
 265 21.9 17.0 25.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/26/2023
 Supervised By :Jagrut Upadhyay 04/26/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 8.023 ng

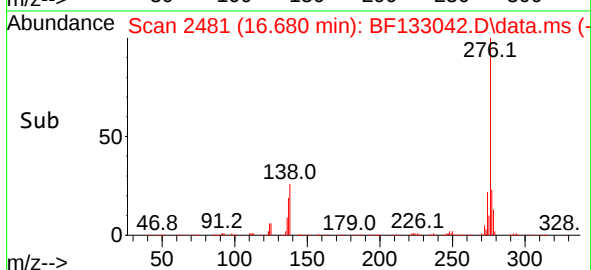
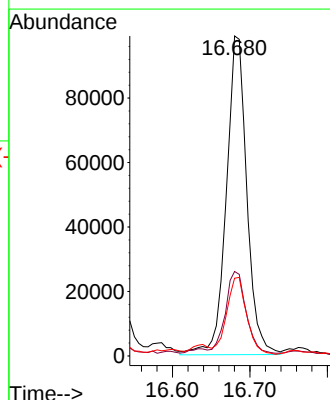
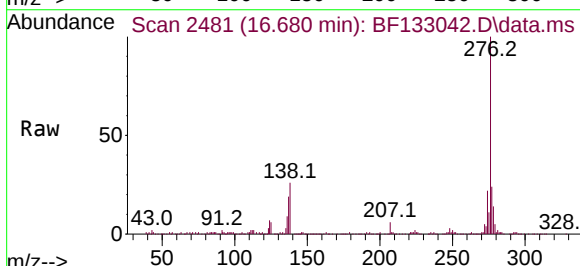
RT: 16.680 min Scan# 2481

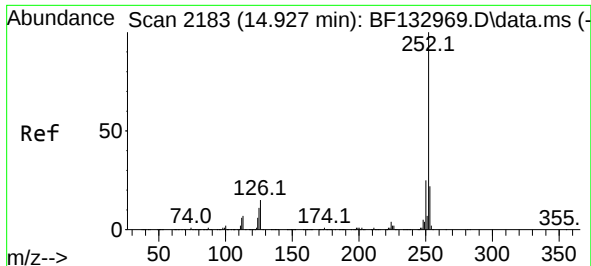
Delta R.T. -0.023 min

Lab File: BF133042.D

Acq: 25 Apr 2023 23:00

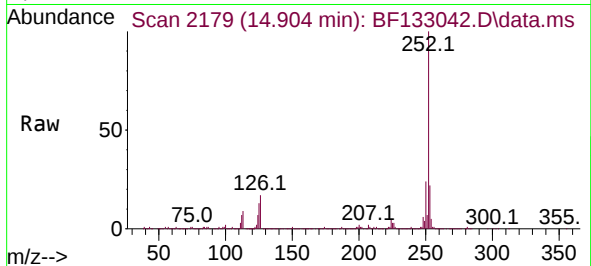
Tgt Ion:276 Resp: 182635
 Ion Ratio Lower Upper
 276 100
 138 25.6 25.5 38.3
 277 23.6 20.4 30.6





#88
Benzo(b)fluoranthene
Concen: 13.340 ng m
RT: 14.904 min Scan# 2179
Delta R.T. -0.012 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00

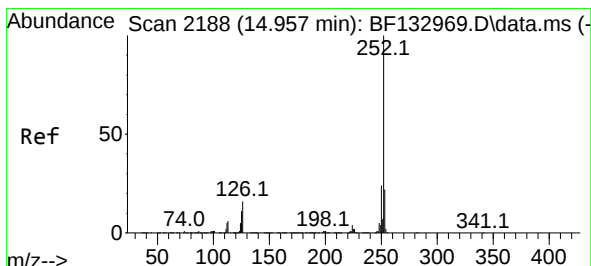
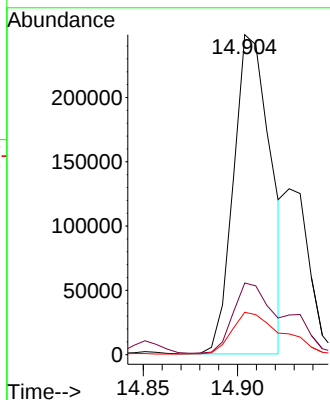
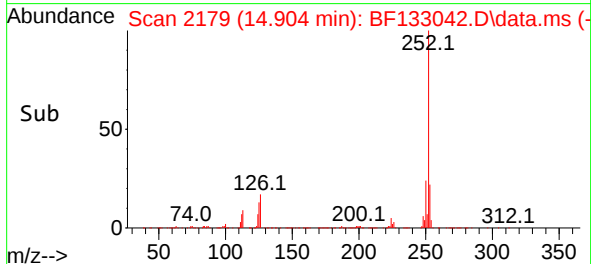
Instrument :
BNA_F
ClientSampleId :
W-H4(ELEV-22)



Tgt Ion:252 Resp: 33964
Ion Ratio Lower Upper
252 100
253 22.4 17.6 26.4
125 13.2 8.9 13.3

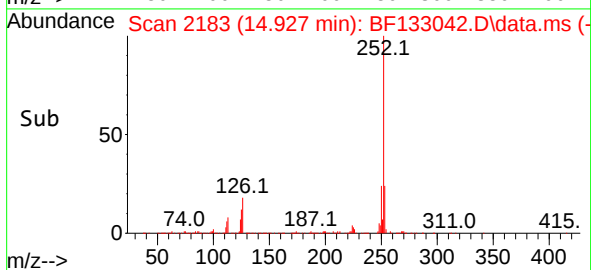
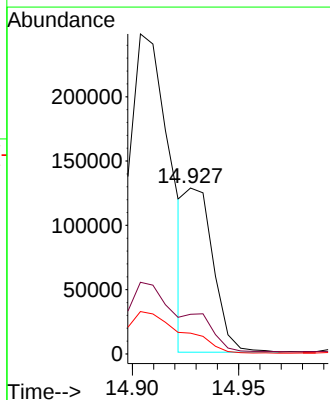
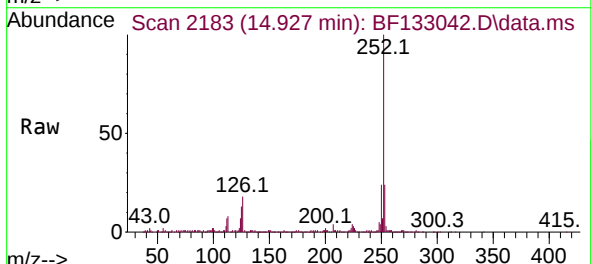
Manual Integrations
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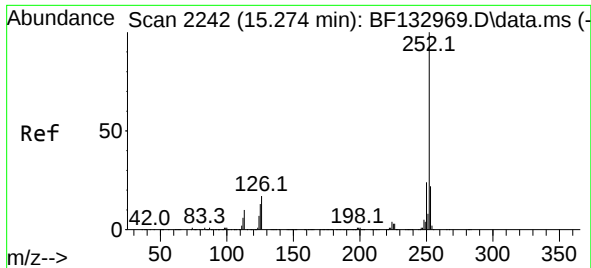
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#89
Benzo(k)fluoranthene
Concen: 4.623 ng m
RT: 14.927 min Scan# 2183
Delta R.T. -0.012 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00

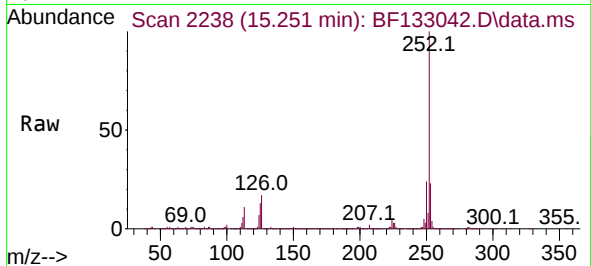
Tgt Ion:252 Resp: 116671
Ion Ratio Lower Upper
252 100
253 24.0 17.7 26.5
125 12.6 9.0 13.4





#90
Benzo(a)pyrene
Concen: 11.803 ng
RT: 15.251 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00

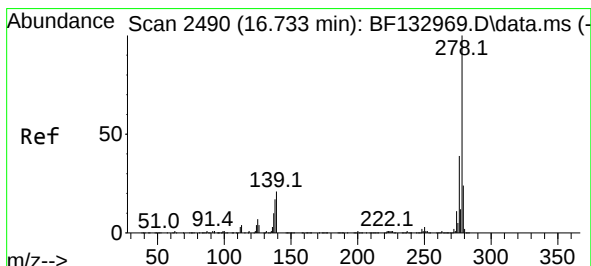
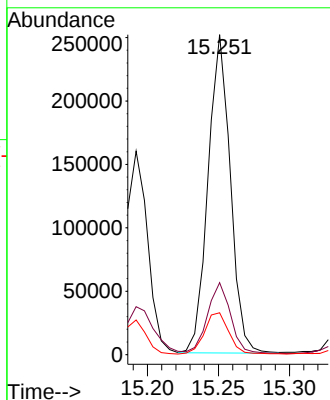
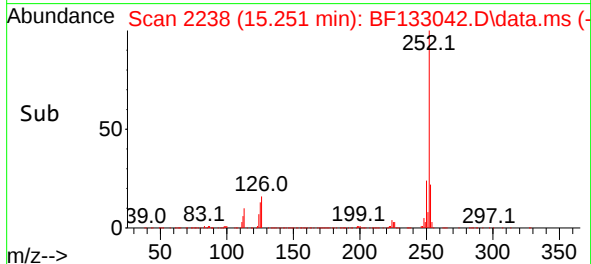
Instrument :
BNA_F
ClientSampleId :
W-H4(ELEV-22)



Tgt Ion:252 Resp: 27352
Ion Ratio Lower Upper
252 100
253 22.5 17.7 26.5
125 13.1 10.5 15.7

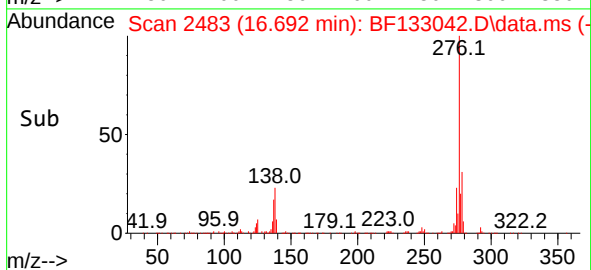
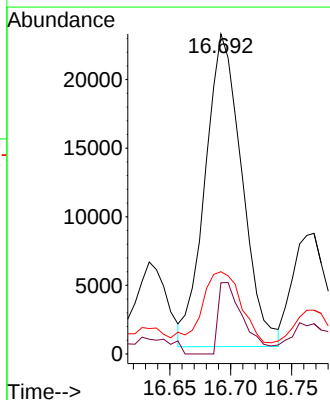
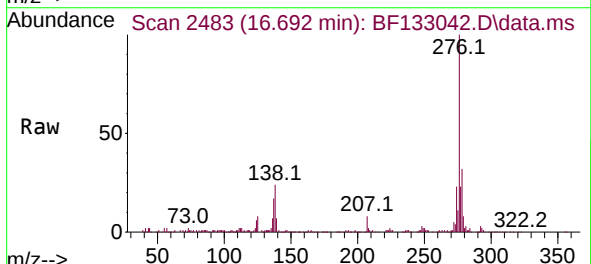
Manual Integrations
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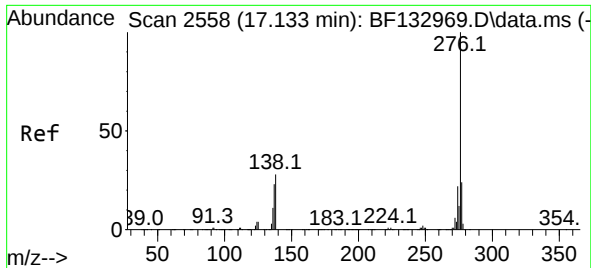
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#91
Dibenzo(a,h)anthracene
Concen: 2.527 ng
RT: 16.692 min Scan# 2483
Delta R.T. -0.029 min
Lab File: BF133042.D
Acq: 25 Apr 2023 23:00

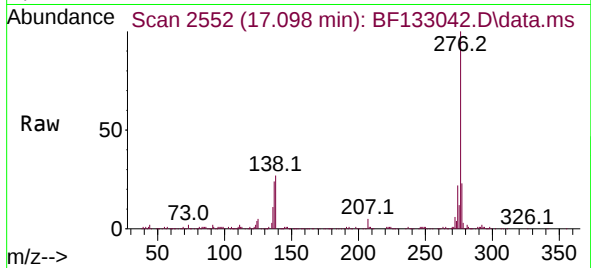
Tgt Ion:278 Resp: 47987
Ion Ratio Lower Upper
278 100
139 22.2 16.6 24.8
279 25.7 18.8 28.2





#92
 Benzo(g,h,i)perylene
 Concen: 9.217 ng
 RT: 17.098 min Scan# 21
 Delta R.T. -0.023 min
 Lab File: BF133042.D
 Acq: 25 Apr 2023 23:00

Instrument :
 BNA_F
 ClientSampleId :
 W-H4(ELEV-22)



Tgt Ion:276 Resp: 172770
 Ion Ratio Lower Upper
 276 100
 277 23.0 19.4 29.0
 138 27.3 22.7 34.1

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 04/26/2023
 Supervised By :Jagrut Upadhyay 04/26/2023

