

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042523\
 Data File : BF133053.D
 Acq On : 26 Apr 2023 04:38
 Operator : CG\JU
 Sample : 02270-09 10X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-25-10-12-20230411

Manual Integrations
 APPROVED

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

Quant Time: Apr 26 05:17:26 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	213019	20.000	ng	0.00
21) Naphthalene-d8	8.028	136	772049	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	363882	20.000	ng	0.00
64) Phenanthrene-d10	11.263	188	558820	20.000	ng	0.00
76) Chrysene-d12	13.916	240	335234	20.000	ng	0.02
86) Perylene-d12	15.339	264	354474	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.340	112	102996	7.304	ng	-0.01
7) Phenol-d6	6.369	99	126690	7.238	ng	-0.02
23) Nitrobenzene-d5	7.298	82	65765	4.598	ng	-0.01
42) 2,4,6-Tribromophenol	10.563	330	20487	5.598	ng	0.00
45) 2-Fluorobiphenyl	9.098	172	147814	6.796	ng	-0.01
79) Terphenyl-d14	12.845	244	130207	6.699	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.045	128	222459	5.763	ng	99
37) 2-Methylnaphthalene	8.739	142	75264	2.852	ng	100
38) 1-Methylnaphthalene	8.834	142	52925	2.144	ng	98
52) Acenaphthene	9.810	154	598489	26.480	ng	99
55) Dibenzofuran	9.980	168	342077	11.096	ng	99
58) Fluorene	10.322	166	528023	23.377	ng	99
71) Phenanthrene	11.298	178	3917017	130.415	ng	98
72) Anthracene	11.339	178	1582144	51.473	ng	99
73) Carbazole	11.492	167	513357	18.757	ng	99
75) Fluoranthene	12.498	202	6659198	220.917	ng	96
78) Pyrene	12.727	202	5990641	208.462	ng	96
81) Benzo(a)anthracene	13.910	228	4847482	210.276	ng	98
83) Chrysene	13.951	228	4363983m	189.349	ng	
87) Indeno(1,2,3-cd)pyrene	16.739	276	1749569	86.770	ng	94
88) Benzo(b)fluoranthene	14.951	252	5401286m	239.512	ng	
89) Benzo(k)fluoranthene	14.968	252	1471946m	65.845	ng	
90) Benzo(a)pyrene	15.298	252	3330318	162.247	ng	96
91) Dibenzo(a,h)anthracene	16.745	278	541434	32.195	ng	97
92) Benzo(g,h,i)perylene	17.162	276	1517534	91.402	ng	98

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

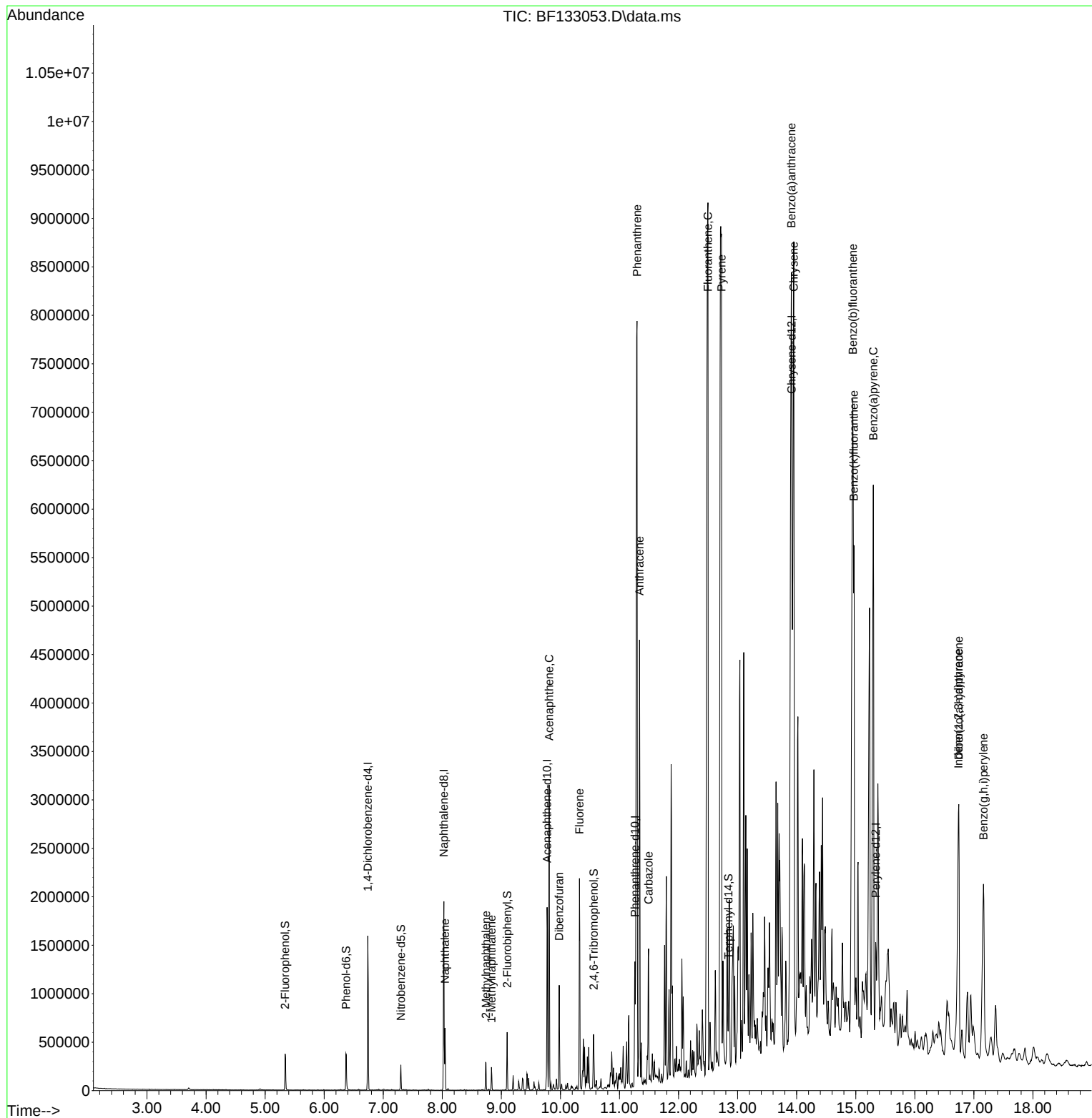
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042523\
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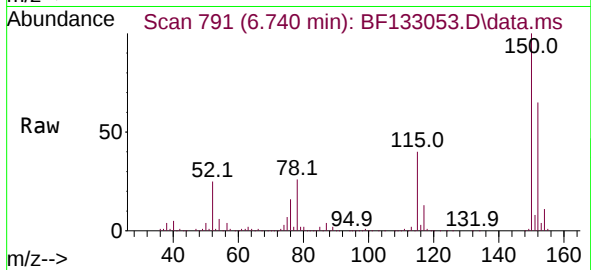
Reviewed By : Christian Giraldo 04/26/2023
Supervised By : Jagrut Upadhyay 04/26/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.740 min Scan# 793
Delta R.T. -0.005 min
Lab File: BF133053.D
Acq: 26 Apr 2023 04:38

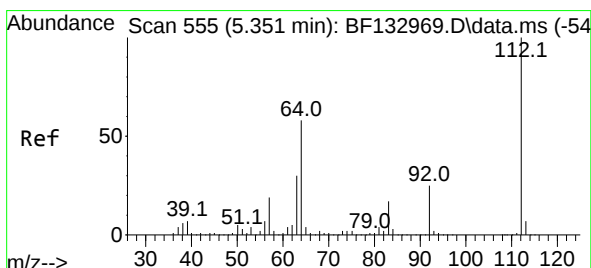
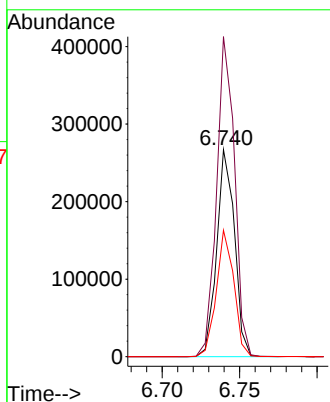
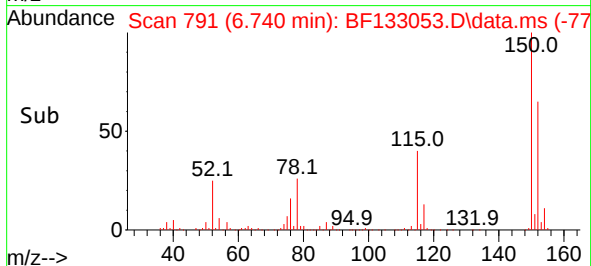
Instrument :
BNA_F
ClientSampleId :
SB-25-10-12-20230411



Tgt Ion:152 Resp: 213019
Ion Ratio Lower Upper
152 100
150 154.5 124.8 187.2
115 61.1 49.9 74.9

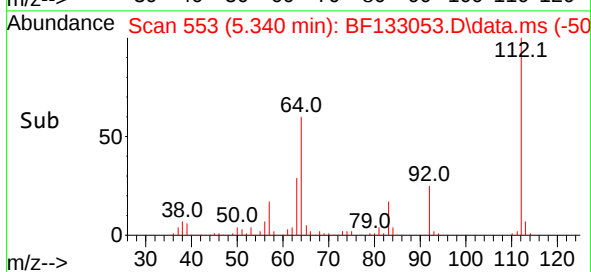
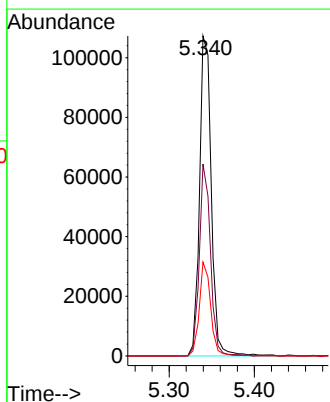
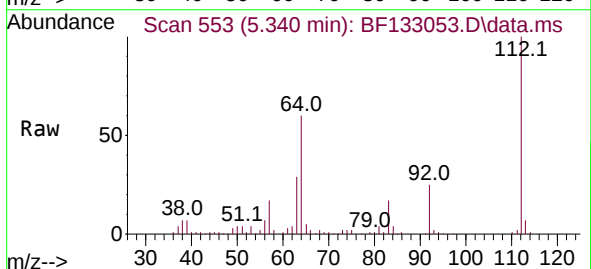
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Supervised By :Jagrut Upadhyay 04/26/2023



#5
2-Fluorophenol
Concen: 7.304 ng
RT: 5.340 min Scan# 553
Delta R.T. -0.012 min
Lab File: BF133053.D
Acq: 26 Apr 2023 04:38

Tgt Ion:112 Resp: 102996
Ion Ratio Lower Upper
112 100
64 59.9 46.8 70.2
63 29.3 23.8 35.8





#7

Phenol-d6

Concen: 7.238 ng

RT: 6.369 min Scan# 71

Delta R.T. -0.018 min

Lab File: BF133053.D

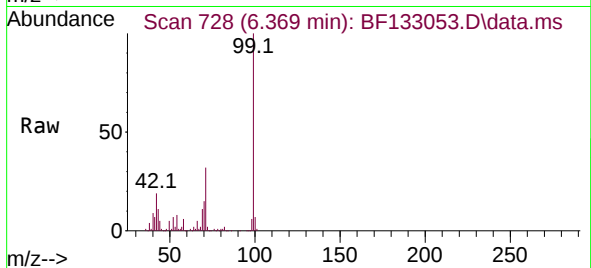
Acq: 26 Apr 2023 04:38

Instrument :

BNA_F

ClientSampleId :

SB-25-10-12-20230411



Tgt Ion: 99 Resp: 126690

Ion Ratio Lower Upper

99 100

42 19.3 16.3 24.5

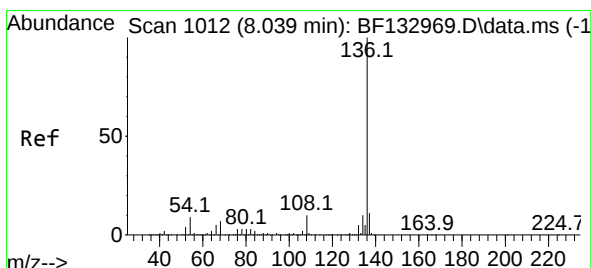
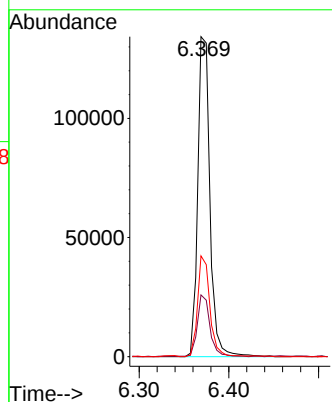
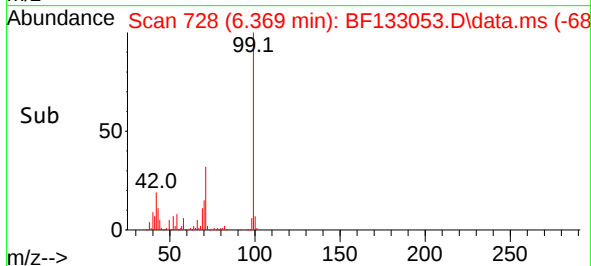
71 31.5 25.6 38.4

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.028 min Scan# 1010

Delta R.T. 0.000 min

Lab File: BF133053.D

Acq: 26 Apr 2023 04:38

Tgt Ion:136 Resp: 772049

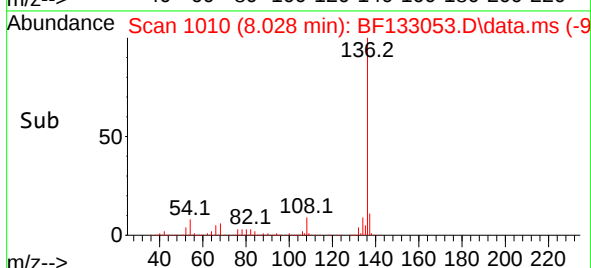
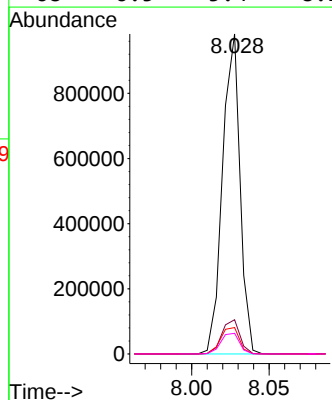
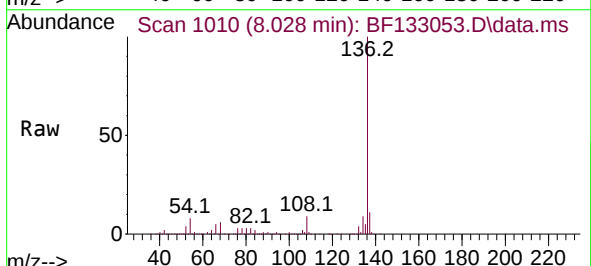
Ion Ratio Lower Upper

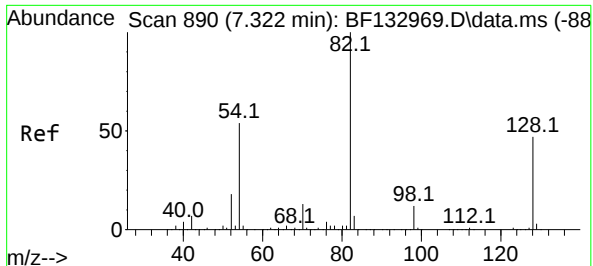
136 100

137 10.7 8.6 13.0

54 8.2 7.0 10.4

68 6.5 5.4 8.2





#23

Nitrobenzene-d5

Concen: 4.598 ng

RT: 7.298 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF133053.D

Acq: 26 Apr 2023 04:38

Instrument :

BNA_F

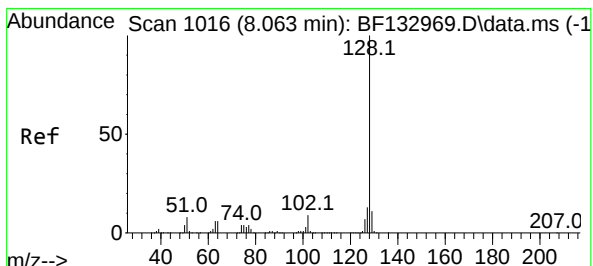
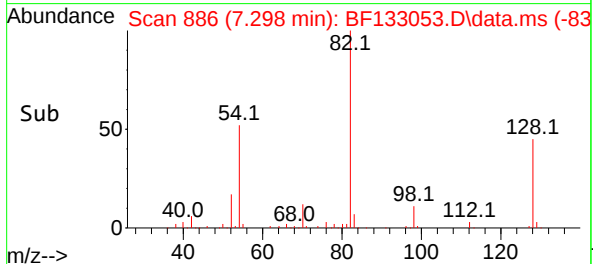
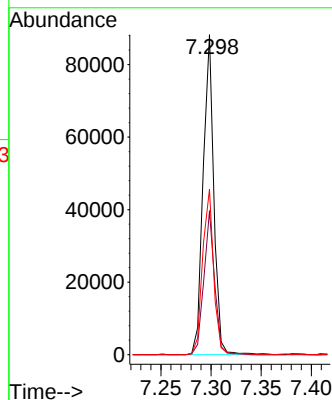
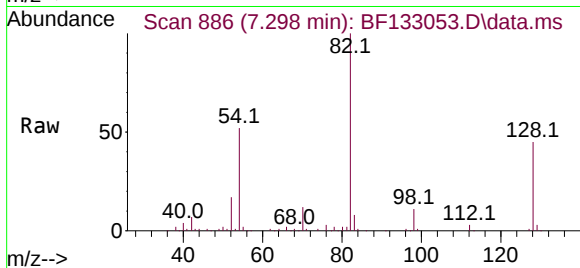
ClientSampleId :

SB-25-10-12-20230411

Tgt Ion: 82 Resp: 65768
 Ion Ratio Lower Upper
 82 100
 128 45.0 37.7 56.5
 54 51.7 43.0 64.4

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#31

Naphthalene

Concen: 5.763 ng

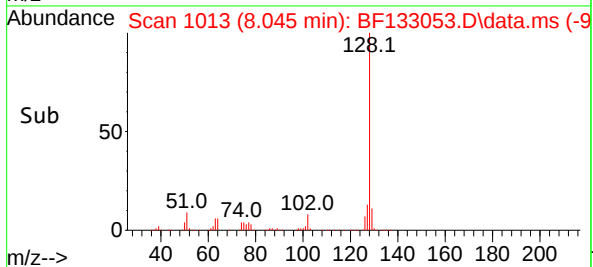
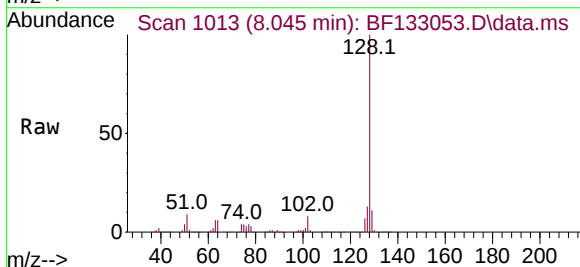
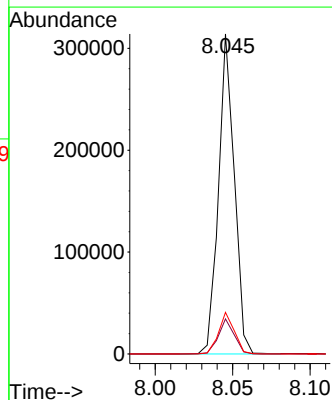
RT: 8.045 min Scan# 1013

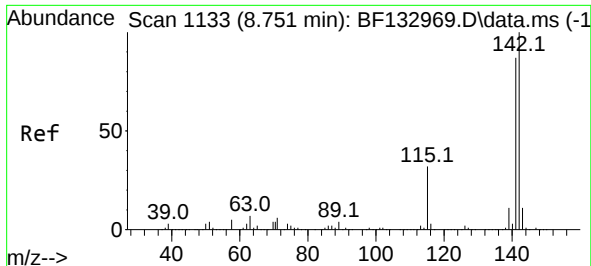
Delta R.T. -0.006 min

Lab File: BF133053.D

Acq: 26 Apr 2023 04:38

Tgt Ion:128 Resp: 222459
 Ion Ratio Lower Upper
 128 100
 129 10.9 8.8 13.2
 127 13.0 10.7 16.1





#37

2-Methylnaphthalene

Concen: 2.852 ng

RT: 8.739 min Scan# 1131

Delta R.T. 0.000 min

Lab File: BF133053.D

Acq: 26 Apr 2023 04:38

Instrument :

BNA_F

ClientSampleId :

SB-25-10-12-20230411

Tgt Ion:142 Resp: 75264

Ion Ratio Lower Upper

142 100

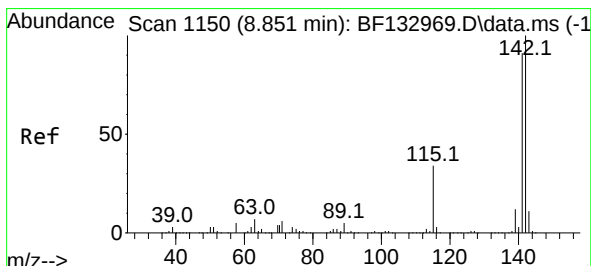
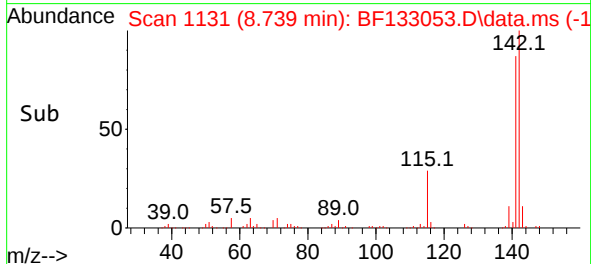
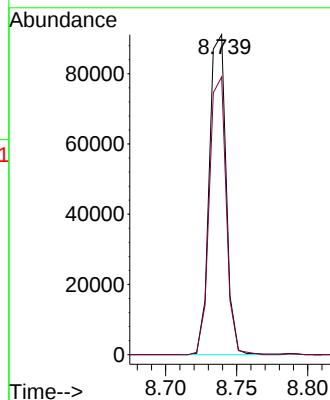
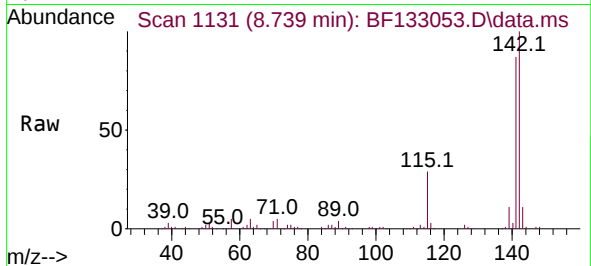
141 86.8 69.4 104.0

Manual Integrations

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Supervised By :Jagrut Upadhyay 04/26/2023



#38

1-Methylnaphthalene

Concen: 2.144 ng

RT: 8.834 min Scan# 1147

Delta R.T. -0.006 min

Lab File: BF133053.D

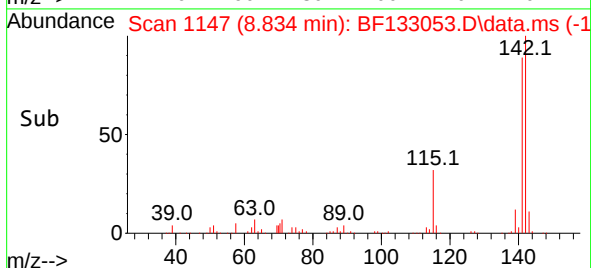
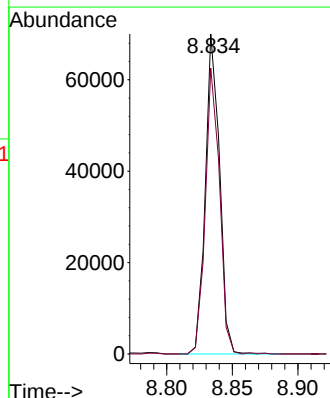
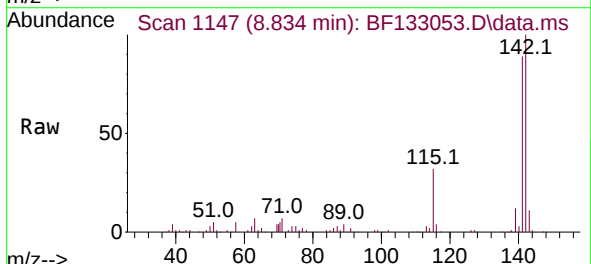
Acq: 26 Apr 2023 04:38

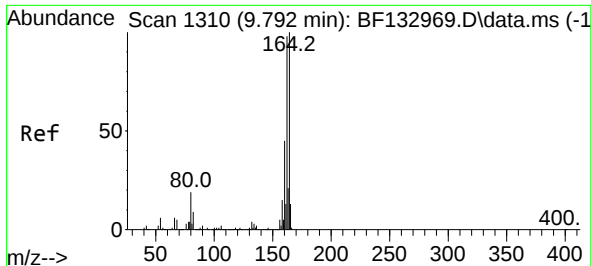
Tgt Ion:142 Resp: 52925

Ion Ratio Lower Upper

142 100

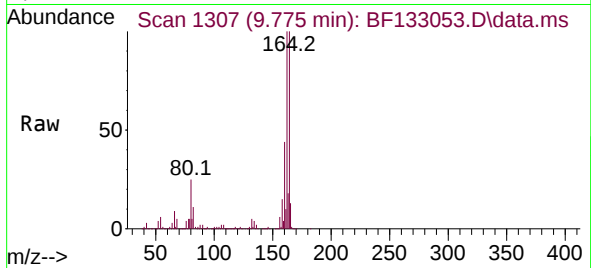
141 89.4 73.1 109.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.775 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133053.D
Acq: 26 Apr 2023 04:38

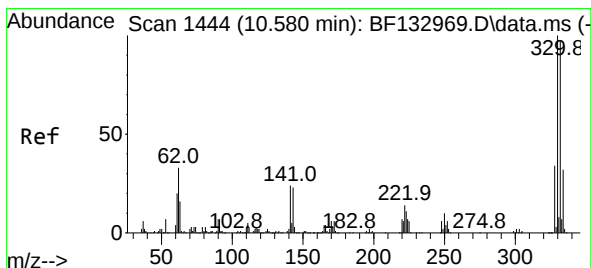
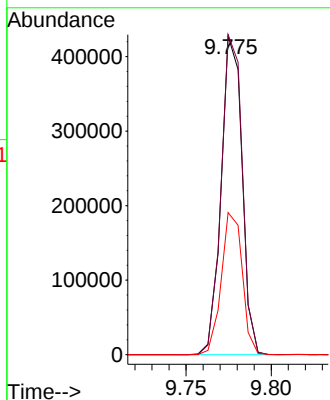
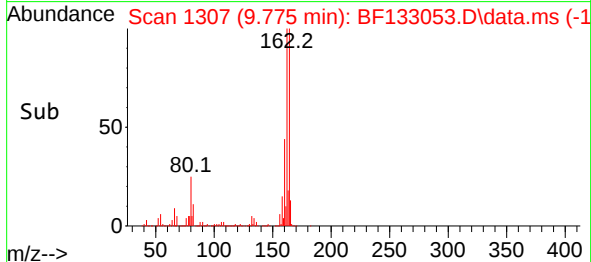
Instrument :
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SB-25-10-12-20230411



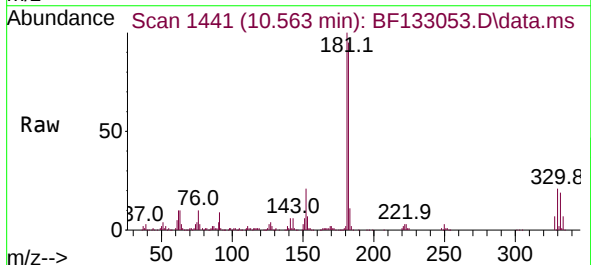
Tgt Ion:164 Resp: 36388
Ion Ratio Lower Upper
164 100
162 100.3 78.7 118.1
160 44.6 35.8 53.6

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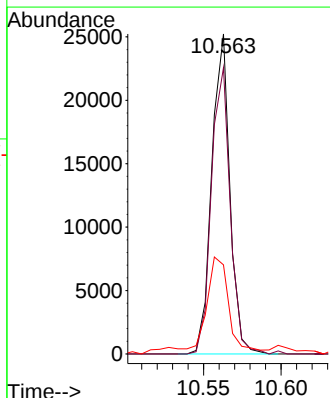
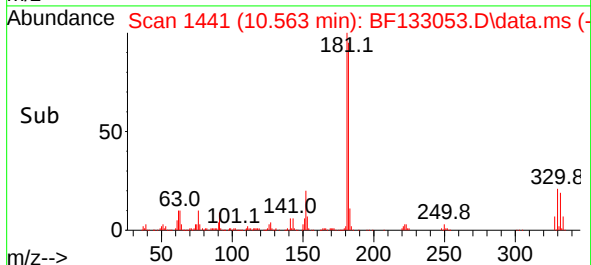
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023

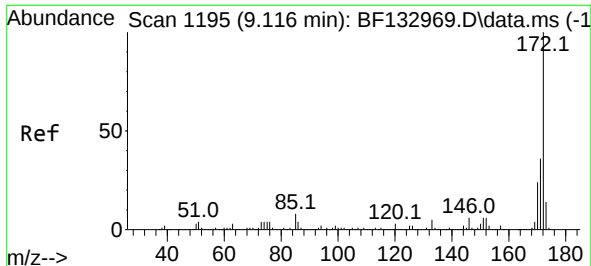


#42
2,4,6-Tribromophenol
Concen: 5.598 ng
RT: 10.563 min Scan# 1441
Delta R.T. -0.006 min
Lab File: BF133053.D
Acq: 26 Apr 2023 04:38



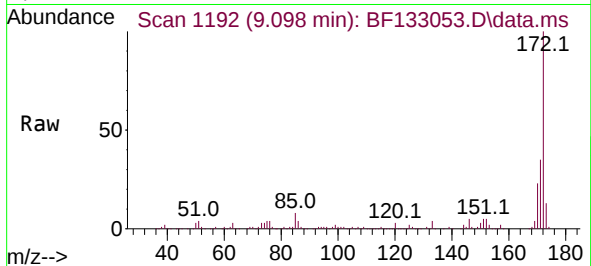
Tgt Ion:330 Resp: 20487
Ion Ratio Lower Upper
330 100
332 93.4 77.1 115.7
141 40.3 25.8 38.8#





#45
2-Fluorobiphenyl
Concen: 6.796 ng
RT: 9.098 min Scan# 1195
Delta R.T. -0.012 min
Lab File: BF133053.D
Acq: 26 Apr 2023 04:38

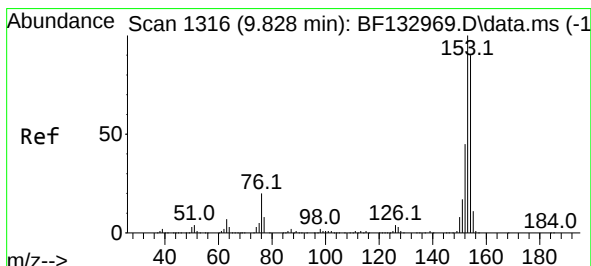
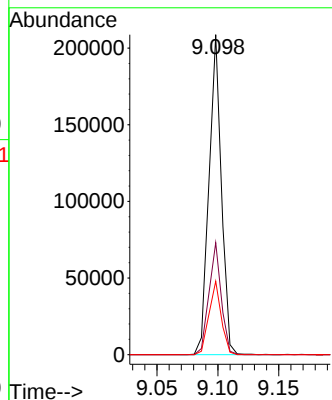
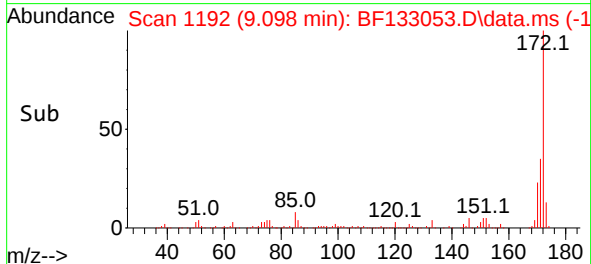
Instrument :
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Tgt Ion:172 Resp: 147814
Ion Ratio Lower Upper
172 100
171 35.0 28.8 43.2
170 22.9 19.4 29.2

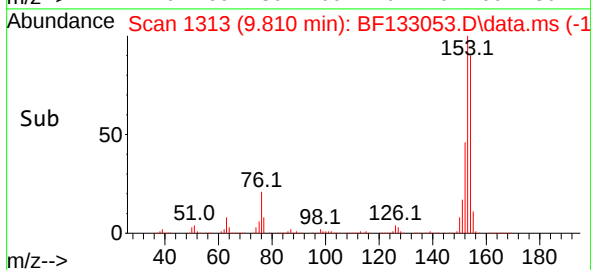
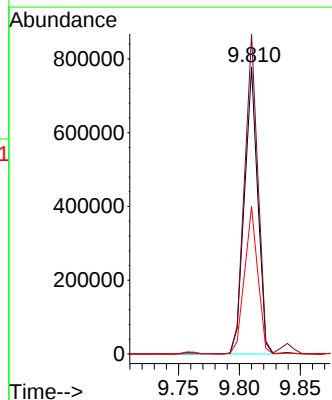
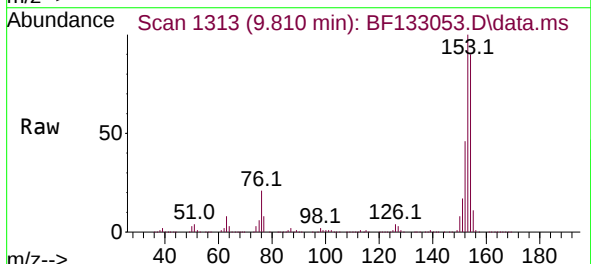
Manual Integrations
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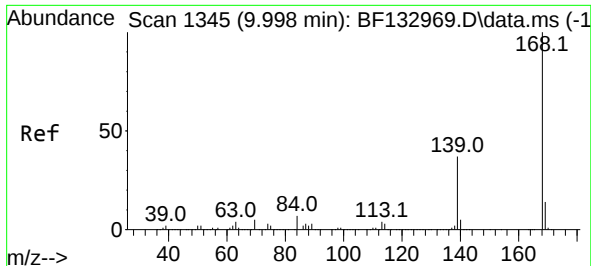
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#52
Acenaphthene
Concen: 26.480 ng
RT: 9.810 min Scan# 1313
Delta R.T. -0.006 min
Lab File: BF133053.D
Acq: 26 Apr 2023 04:38

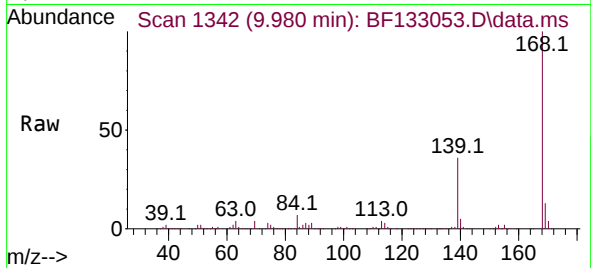
Tgt Ion:154 Resp: 598489
Ion Ratio Lower Upper
154 100
153 111.6 89.0 133.6
152 51.3 40.4 60.6





#55
Dibenzenofuran
Concen: 11.096 ng
RT: 9.980 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133053.D
Acq: 26 Apr 2023 04:38

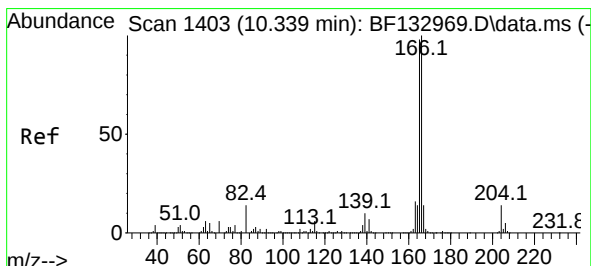
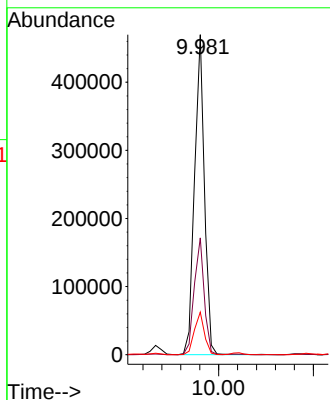
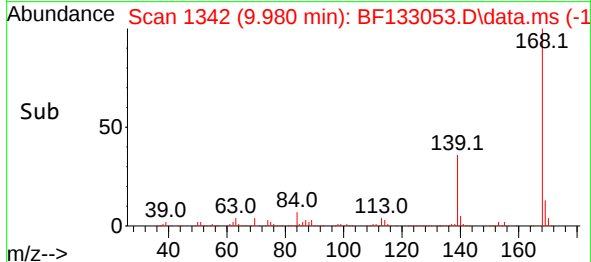
Instrument :
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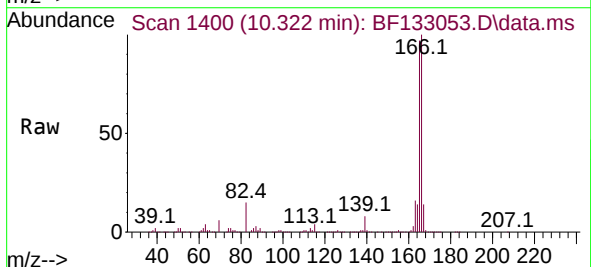
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Ion Ratio Lower Upper
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139 36.5 29.8 44.8
169 13.3 10.8 16.2

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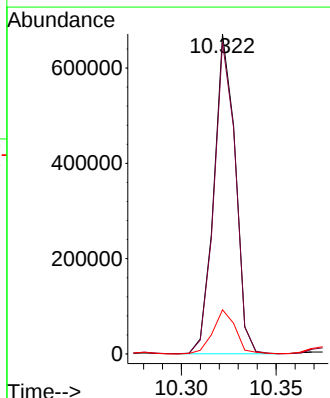
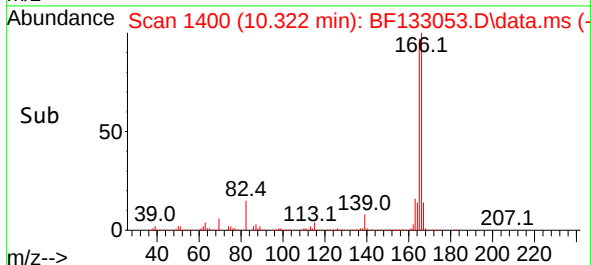
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023

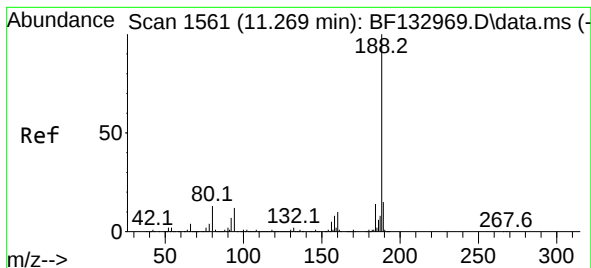


#58
Fluorene
Concen: 23.377 ng
RT: 10.322 min Scan# 1400
Delta R.T. -0.006 min
Lab File: BF133053.D
Acq: 26 Apr 2023 04:38



Tgt Ion:166 Resp: 528023
Ion Ratio Lower Upper
166 100
165 97.4 78.6 117.8
167 13.8 11.0 16.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.263 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BF133053.D

Acq: 26 Apr 2023 04:38

Instrument :

BNA_F

ClientSampleId :

SB-25-10-12-20230411

Tgt Ion:188 Resp: 558820

Ion Ratio Lower Upper

188 100

94 10.7 9.7 14.5

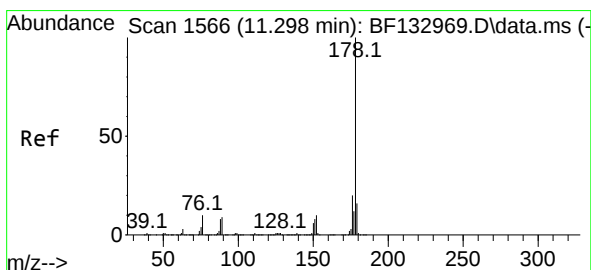
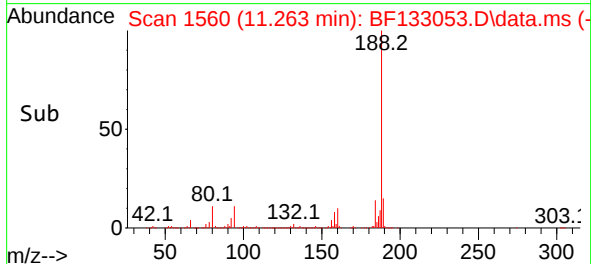
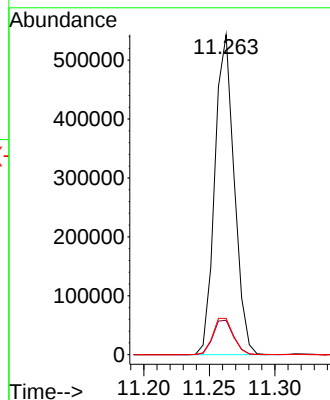
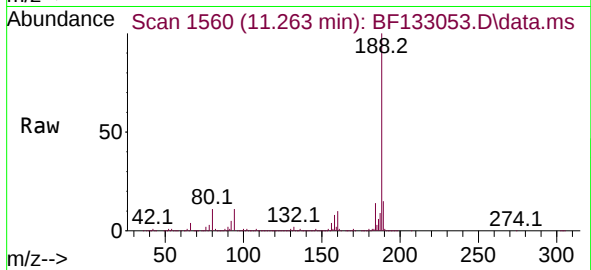
80 11.3 10.4 15.6

Manual Integrations

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Reviewed By :Christian Giraldo 04/26/2023

Supervised By :Jagrut Upadhyay 04/26/2023



#71

Phenanthrene

Concen: 130.415 ng

RT: 11.298 min Scan# 1566

Delta R.T. 0.012 min

Lab File: BF133053.D

Acq: 26 Apr 2023 04:38

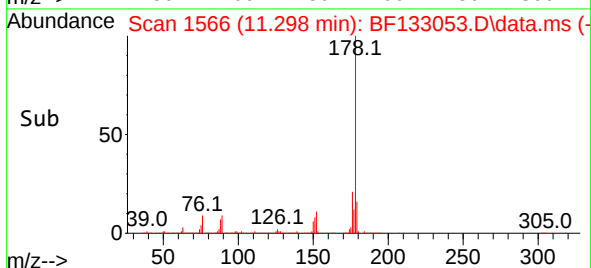
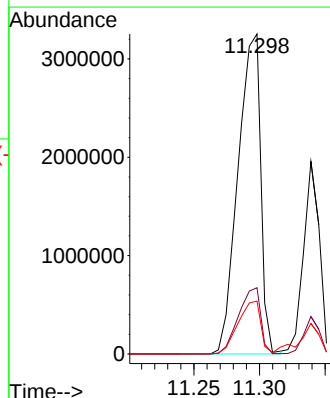
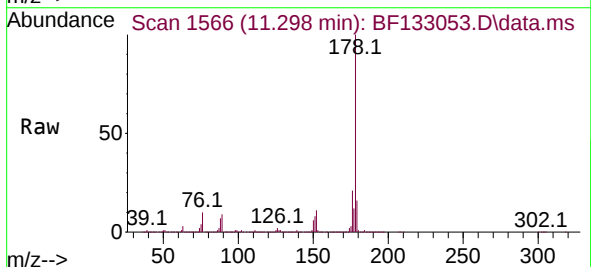
Tgt Ion:178 Resp: 3917017

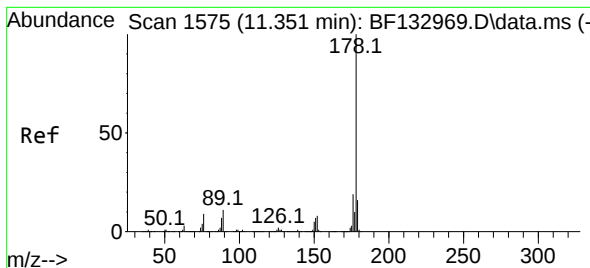
Ion Ratio Lower Upper

178 100

176 20.7 15.9 23.9

179 16.5 12.5 18.7





#72

Anthracene

Concen: 51.473 ng

RT: 11.339 min Scan# 1573

Delta R.T. 0.000 min

Lab File: BF133053.D

Acq: 26 Apr 2023 04:38

Instrument :

BNA_F

ClientSampleId :

SB-25-10-12-20230411

Tgt Ion:178 Resp: 158214

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.0

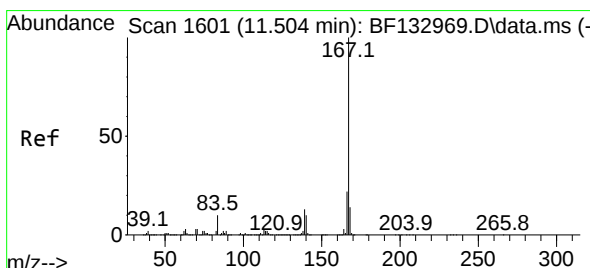
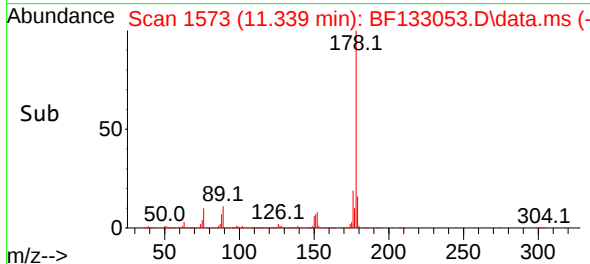
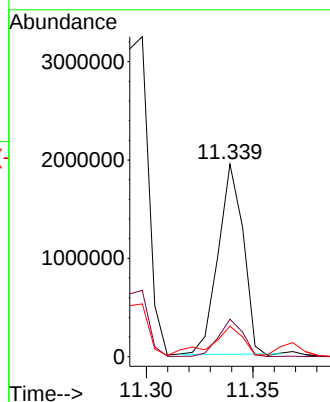
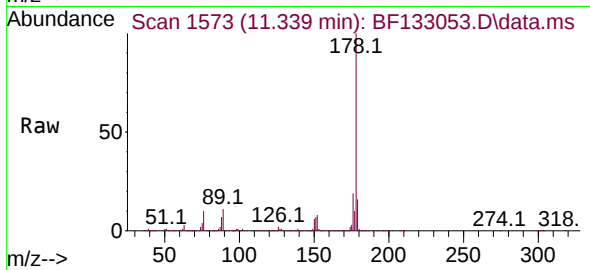
179 15.9 12.4 18.6

Manual Integrations

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Reviewed By :Christian Giraldo 04/26/2023

Supervised By :Jagrut Upadhyay 04/26/2023



#73

Carbazole

Concen: 18.757 ng

RT: 11.492 min Scan# 1599

Delta R.T. 0.000 min

Lab File: BF133053.D

Acq: 26 Apr 2023 04:38

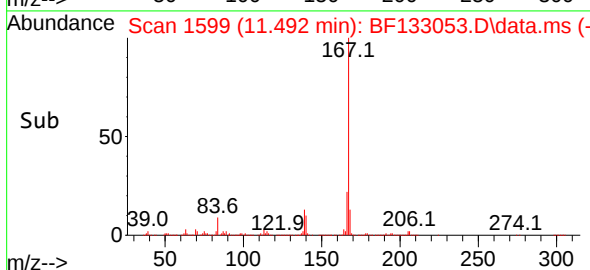
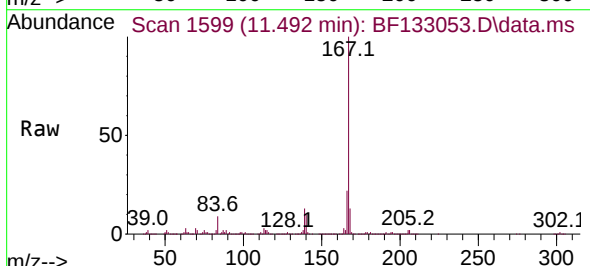
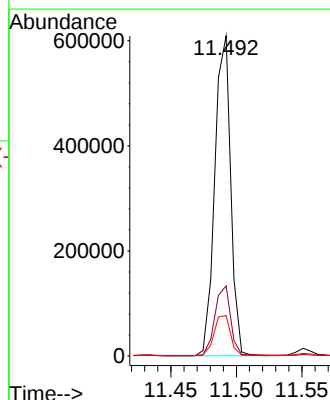
Tgt Ion:167 Resp: 513357

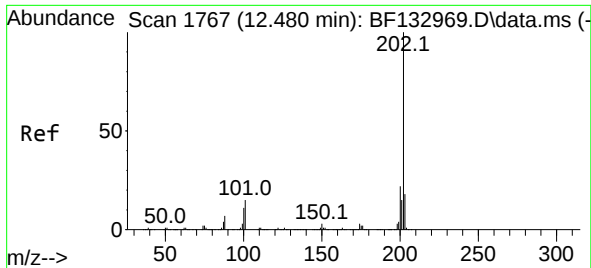
Ion Ratio Lower Upper

167 100

166 21.9 17.4 26.0

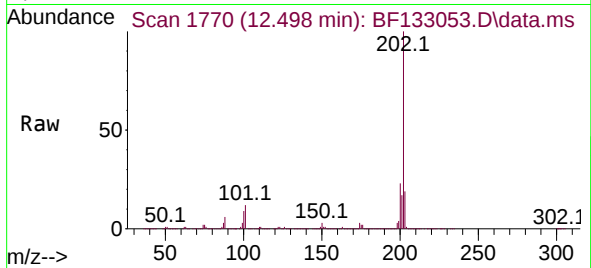
139 12.6 10.6 16.0





#75
Fluoranthene
Concen: 220.917 ng
RT: 12.498 min Scan# 11
Delta R.T. 0.024 min
Lab File: BF133053.D
Acq: 26 Apr 2023 04:38

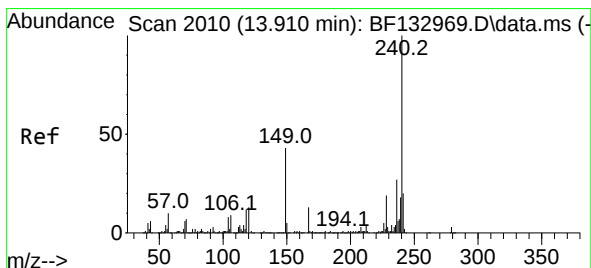
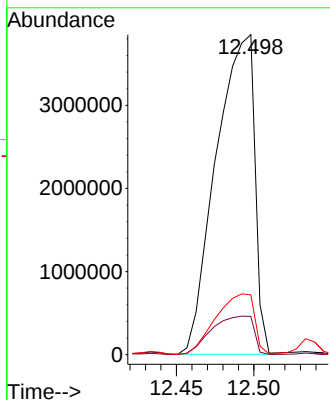
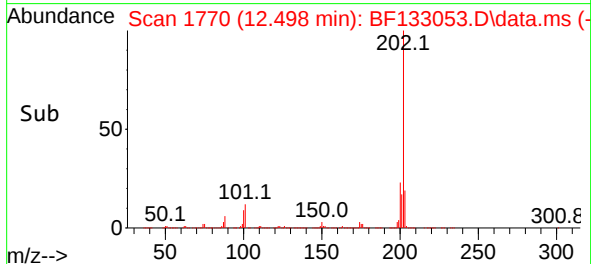
Instrument :
BNA_F
ClientSampleId :
SB-25-10-12-20230411



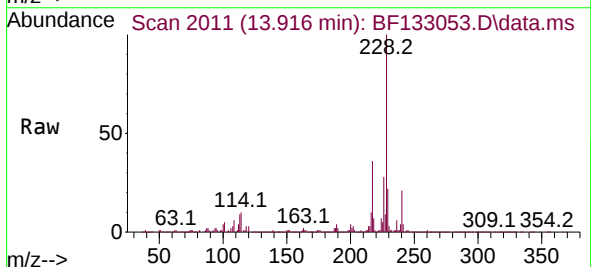
Tgt Ion:202 Resp: 665919
Ion Ratio Lower Upper
202 100
101 12.0 0.0 35.3
203 18.7 0.0 38.1

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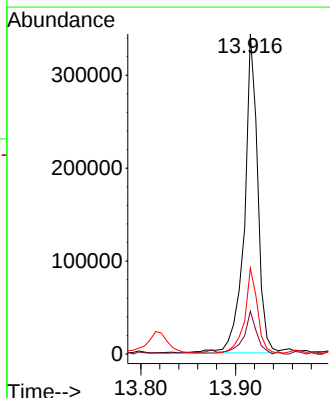
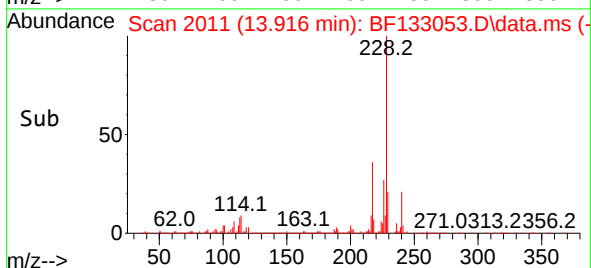
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023

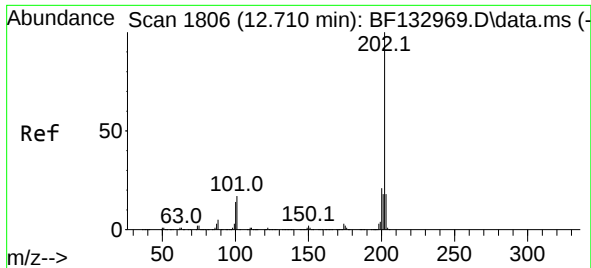


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.916 min Scan# 2011
Delta R.T. 0.018 min
Lab File: BF133053.D
Acq: 26 Apr 2023 04:38



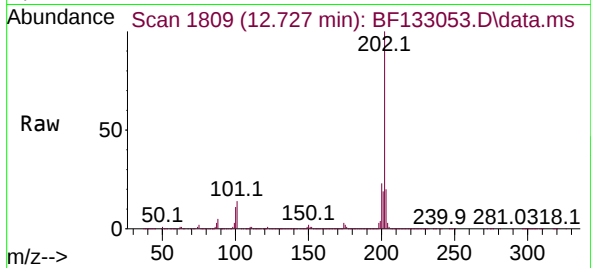
Tgt Ion:240 Resp: 335234
Ion Ratio Lower Upper
240 100
120 13.3 10.5 15.7
236 26.8 21.5 32.3





#78
Pyrene
Concen: 208.462 ng
RT: 12.727 min Scan# 1809
Delta R.T. 0.030 min
Lab File: BF133053.D
Acq: 26 Apr 2023 04:38

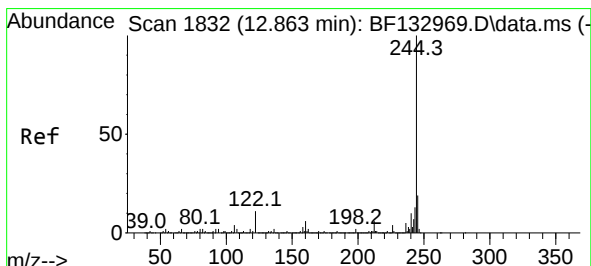
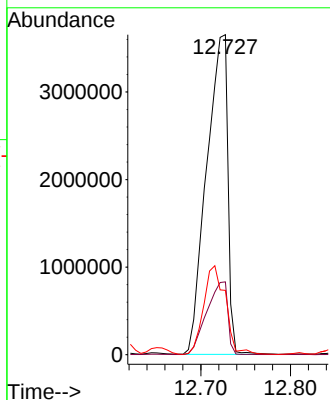
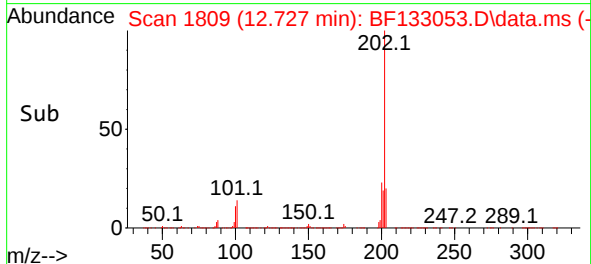
Instrument :
BNA_F
ClientSampleId :
SB-25-10-12-20230411



Tgt Ion:202 Resp: 599064
Ion Ratio Lower Upper
202 100
200 22.8 17.1 25.7
203 20.1 14.1 21.1

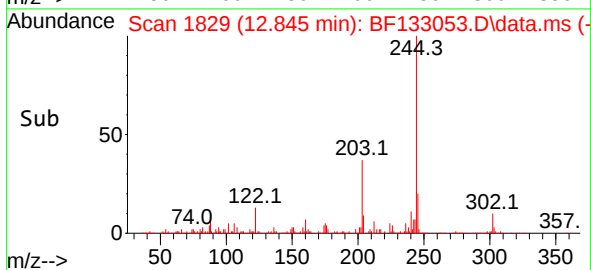
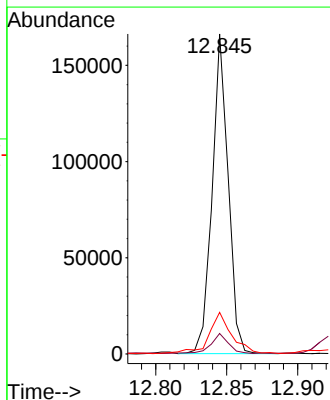
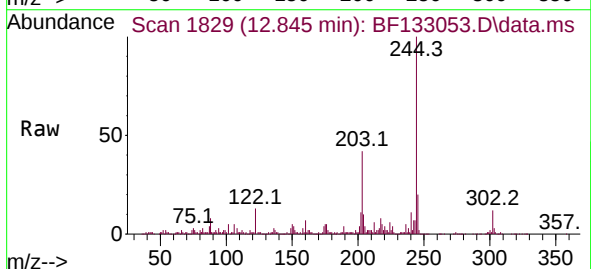
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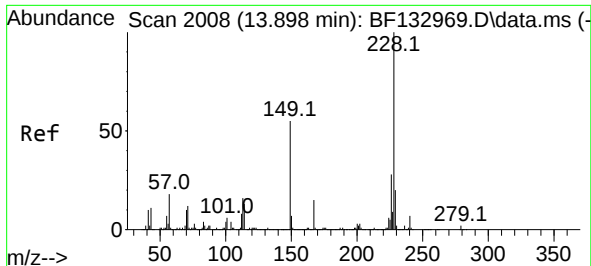
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#79
Terphenyl-d14
Concen: 6.699 ng
RT: 12.845 min Scan# 1829
Delta R.T. -0.006 min
Lab File: BF133053.D
Acq: 26 Apr 2023 04:38

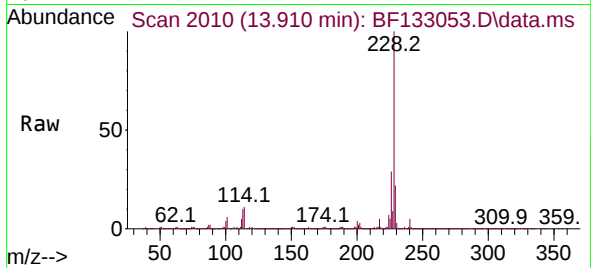
Tgt Ion:244 Resp: 130207
Ion Ratio Lower Upper
244 100
212 6.4 5.1 7.7
122 13.0 8.6 13.0





#81
Benzo(a)anthracene
Concen: 210.276 ng
RT: 13.910 min Scan# 2010
Delta R.T. 0.024 min
Lab File: BF133053.D
Acq: 26 Apr 2023 04:38

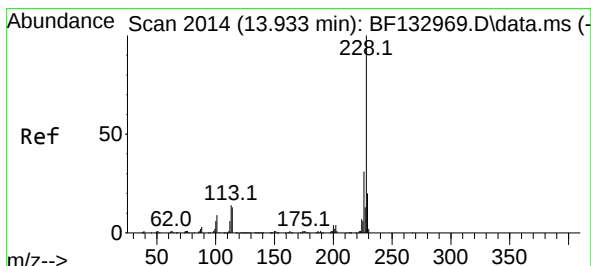
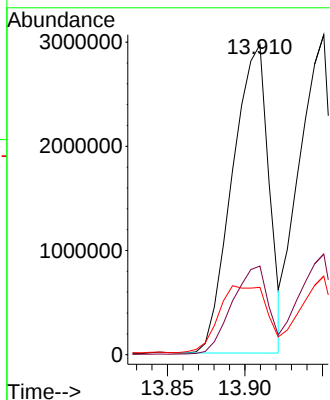
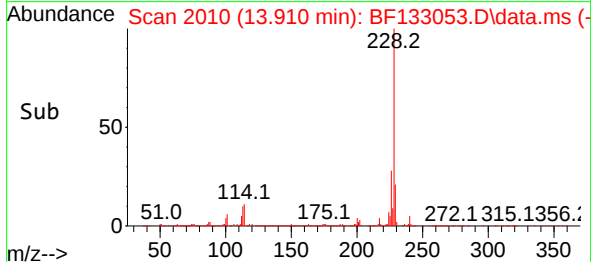
Instrument :
BNA_F
ClientSampleId :
SB-25-10-12-20230411



Tgt Ion:228 Resp: 484748
Ion Ratio Lower Upper
228 100
226 28.6 22.2 33.4
229 21.7 16.0 24.0

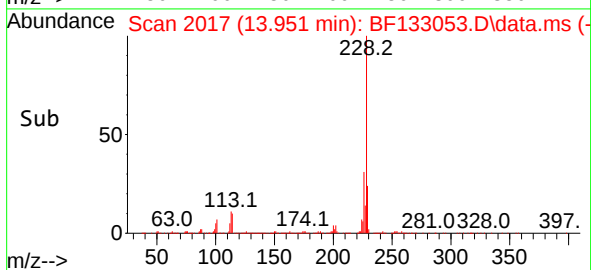
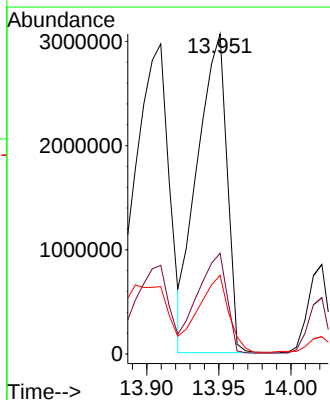
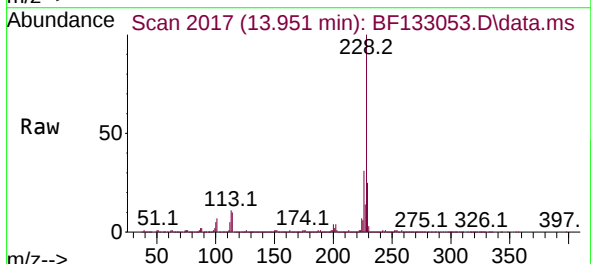
Manual Integrations
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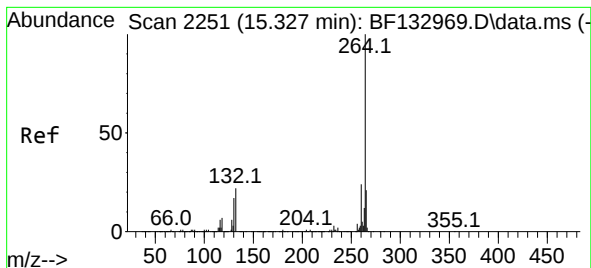
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#83
Chrysene
Concen: 189.349 ng m
RT: 13.951 min Scan# 2017
Delta R.T. 0.024 min
Lab File: BF133053.D
Acq: 26 Apr 2023 04:38

Tgt Ion:228 Resp: 4363983
Ion Ratio Lower Upper
228 100
226 31.4 24.7 37.1
229 24.5 16.1 24.1#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.339 min Scan# 21

Delta R.T. 0.024 min

Lab File: BF133053.D

Acq: 26 Apr 2023 04:38

Instrument :

BNA_F

ClientSampleId :

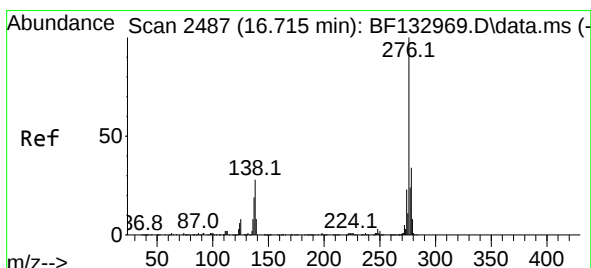
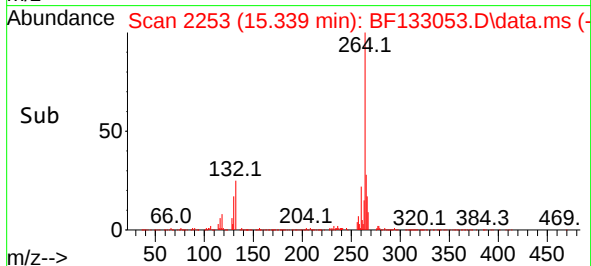
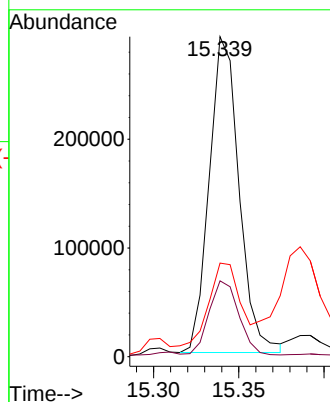
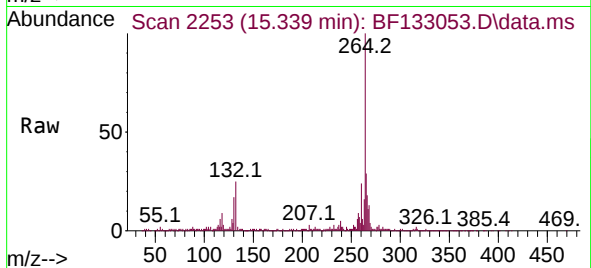
SB-25-10-12-20230411

Tgt Ion:264 Resp: 354474
 Ion Ratio Lower Upper
 264 100
 260 23.7 18.8 28.2
 265 29.2 17.0 25.4

Manual Integrations

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



#87

Indeno(1,2,3-cd)pyrene

Concen: 86.770 ng

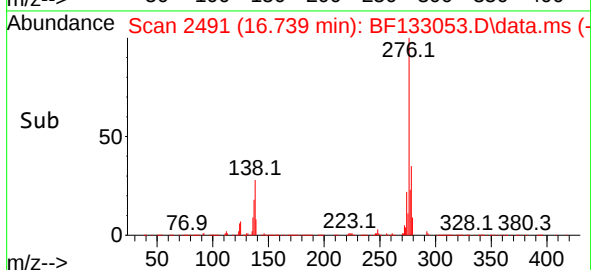
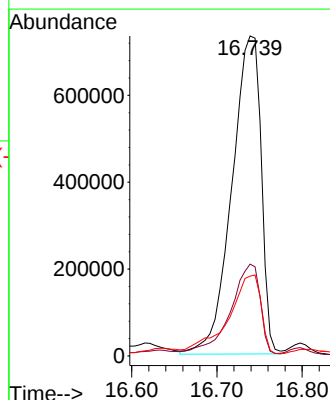
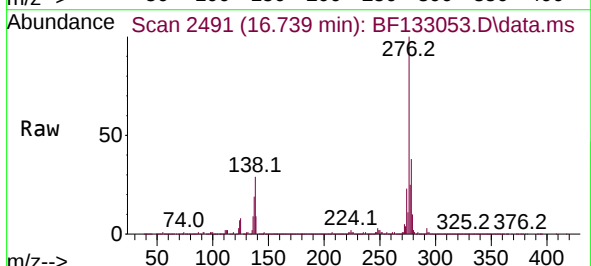
RT: 16.739 min Scan# 2491

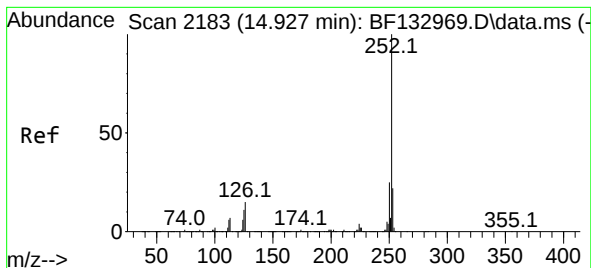
Delta R.T. 0.035 min

Lab File: BF133053.D

Acq: 26 Apr 2023 04:38

Tgt Ion:276 Resp: 1749569
 Ion Ratio Lower Upper
 276 100
 138 28.1 25.5 38.3
 277 27.8 20.4 30.6





#88

Benzo(b)fluoranthene

Concen: 239.512 ng m

RT: 14.951 min Scan# 2183

Delta R.T. 0.035 min

Lab File: BF133053.D

Acq: 26 Apr 2023 04:38

Instrument :

BNA_F

ClientSampleId :

SB-25-10-12-20230411

Tgt Ion:252 Resp: 540128

Ion Ratio Lower Upper

252 100

253 23.9 17.6 26.4

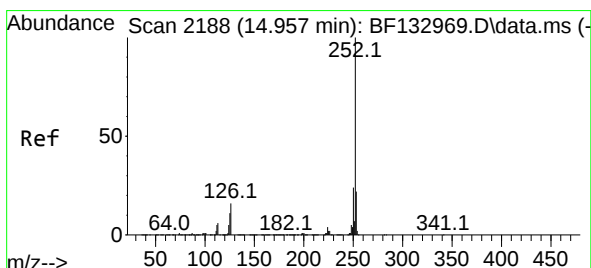
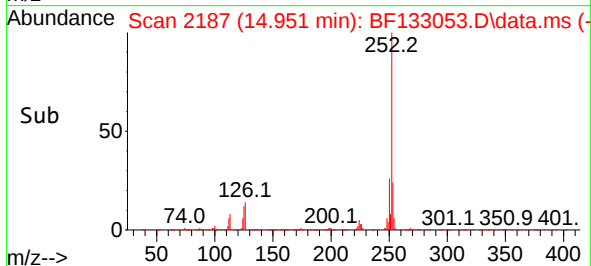
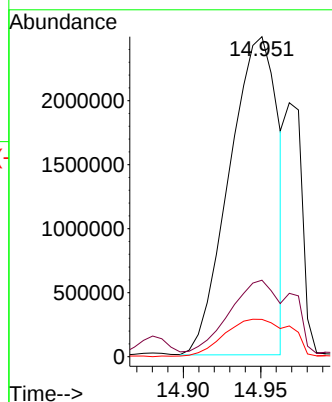
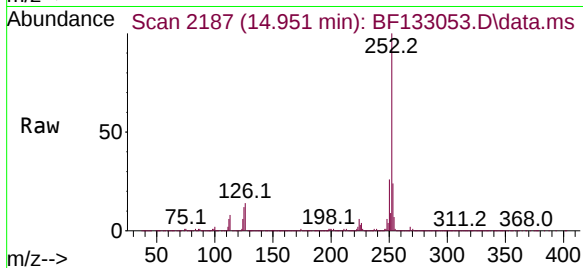
125 11.7 8.9 13.3

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: 65.845 ng m

RT: 14.968 min Scan# 2190

Delta R.T. 0.030 min

Lab File: BF133053.D

Acq: 26 Apr 2023 04:38

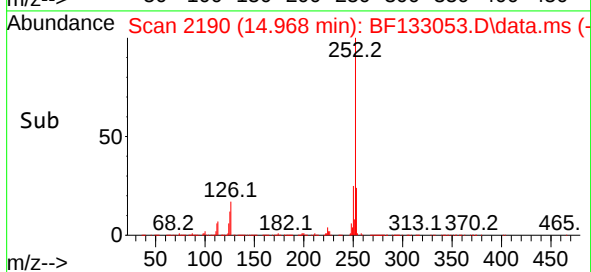
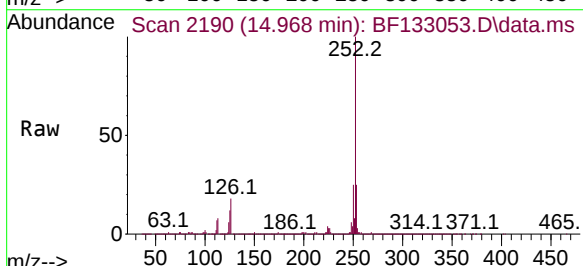
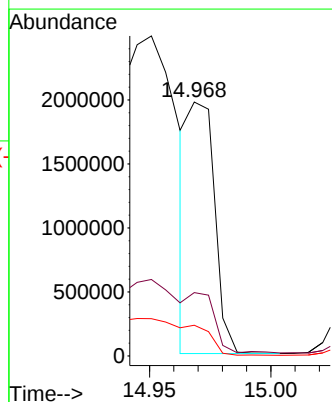
Tgt Ion:252 Resp: 1471946

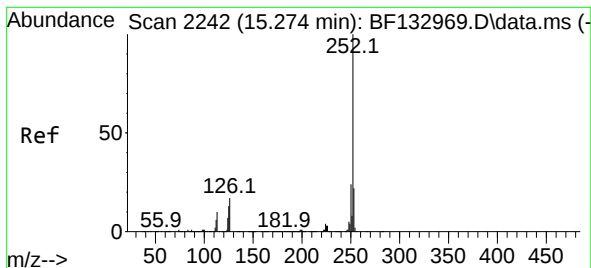
Ion Ratio Lower Upper

252 100

253 24.9 17.7 26.5

125 12.1 9.0 13.4





#90

Benzo(a)pyrene

Concen: 162.247 ng

RT: 15.298 min Scan# 21

Delta R.T. 0.035 min

Lab File: BF133053.D

Acq: 26 Apr 2023 04:38

Instrument :

BNA_F

ClientSampleId :

SB-25-10-12-20230411

Tgt Ion:252 Resp: 3330318

Ion Ratio Lower Upper

252 100

253 24.5 17.7 26.5

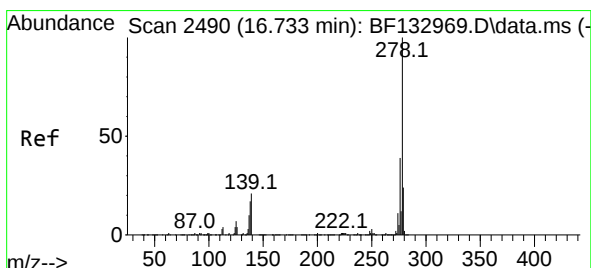
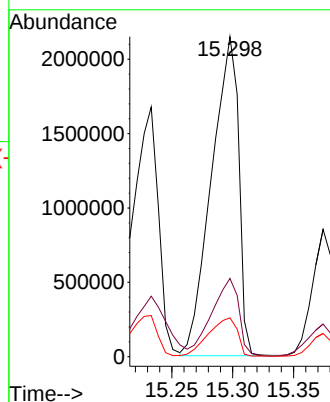
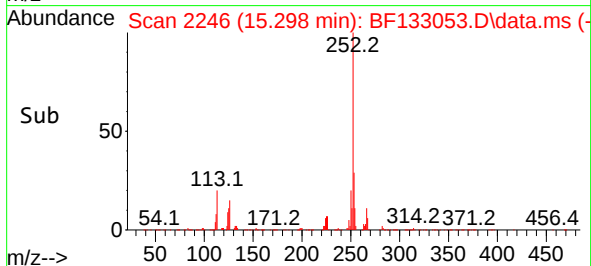
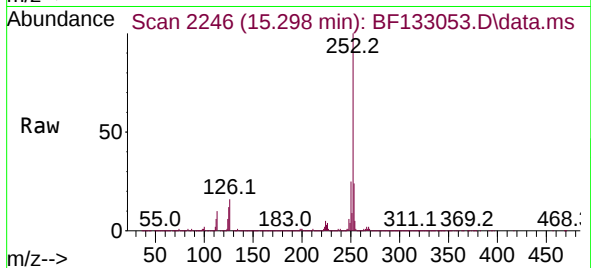
125 12.1 10.5 15.7

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: 32.195 ng

RT: 16.745 min Scan# 2492

Delta R.T. 0.024 min

Lab File: BF133053.D

Acq: 26 Apr 2023 04:38

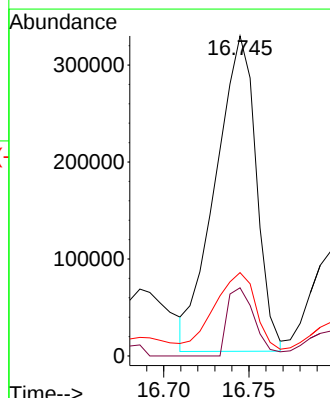
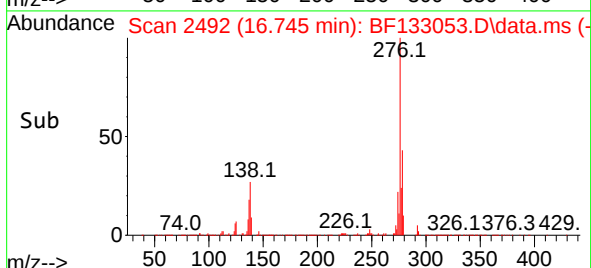
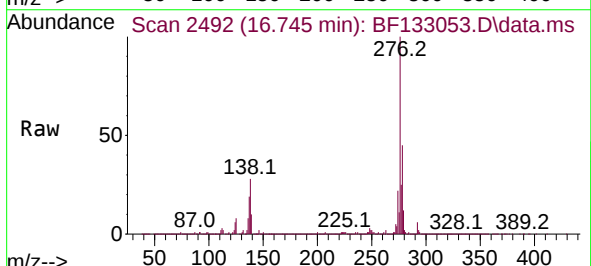
Tgt Ion:278 Resp: 541434

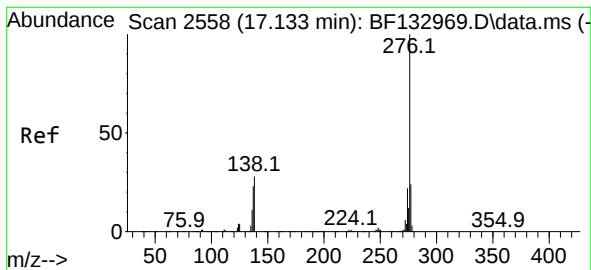
Ion Ratio Lower Upper

278 100

139 21.3 16.6 24.8

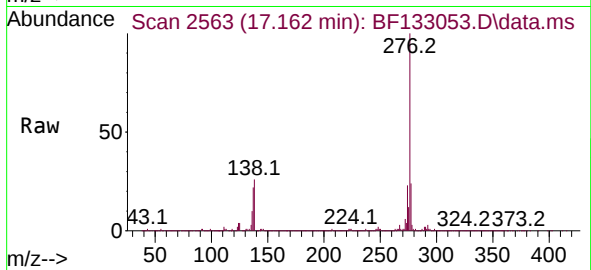
279 26.1 18.8 28.2





#92
 Benzo(g,h,i)perylene
 Concen: 91.402 ng
 RT: 17.162 min Scan# 21
 Delta R.T. 0.041 min
 Lab File: BF133053.D
 Acq: 26 Apr 2023 04:38

Instrument :
 BNA_F
 ClientSampleId :
 SB-25-10-12-20230411



Tgt Ion:276 Resp: 1517534
 Ion Ratio Lower Upper
 276 100
 277 24.2 19.4 29.0
 138 26.2 22.7 34.1

Manual Integrations
 APPROVED

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

