

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042523\
 Data File : BF133043.D
 Acq On : 25 Apr 2023 23:31
 Operator : CG\JU
 Sample : 02270-22
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-15-0-2-20230412

Manual Integrations
 APPROVED

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

Quant Time: Apr 26 02:19:31 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	6.739	152	188469	20.000	ng	0.00
21) Naphthalene-d8	8.022	136	729560	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	388384	20.000	ng	0.00
64) Phenanthrene-d10	11.257	188	697299	20.000	ng	0.00
76) Chrysene-d12	13.892	240	396570	20.000	ng	0.00
86) Perylene-d12	15.315	264	394394	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.351	112	917483	73.538	ng	0.00
7) Phenol-d6	6.375	99	1189667	76.823	ng	-0.01
23) Nitrobenzene-d5	7.304	82	723262	53.511	ng	0.00
42) 2,4,6-Tribromophenol	10.563	330	291764	74.697	ng	0.00
45) 2-Fluorobiphenyl	9.098	172	1353974	58.324	ng	-0.01
79) Terphenyl-d14	12.845	244	1485575	64.607	ng	0.00
Target Compounds						Qvalue
52) Acenaphthene	9.804	154	79057	3.277	ng	99
58) Fluorene	10.316	166	64061	2.657	ng	100
71) Phenanthrene	11.280	178	1361083	36.317	ng	99
72) Anthracene	11.327	178	283631	7.395	ng	99
73) Carbazole	11.486	167	110061	3.223	ng	99
75) Fluoranthene	12.468	202	1652972	43.947	ng	99
78) Pyrene	12.698	202	1484336	43.663	ng	99
81) Benzo(a)anthracene	13.880	228	551441	20.221	ng	98
83) Chrysene	13.915	228	501904	18.409	ng	98
87) Indeno(1,2,3-cd)pyrene	16.686	276	282293	12.583	ng	93
88) Benzo(b)fluoranthene	14.909	252	562409m	22.415	ng	
89) Benzo(k)fluoranthene	14.933	252	129685m	5.214	ng	
90) Benzo(a)pyrene	15.251	252	401948	17.600	ng	99
91) Dibenzo(a,h)anthracene	16.698	278	66334	3.545	ng	94
92) Benzo(g,h,i)perylene	17.098	276	263765	14.279	ng	99

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

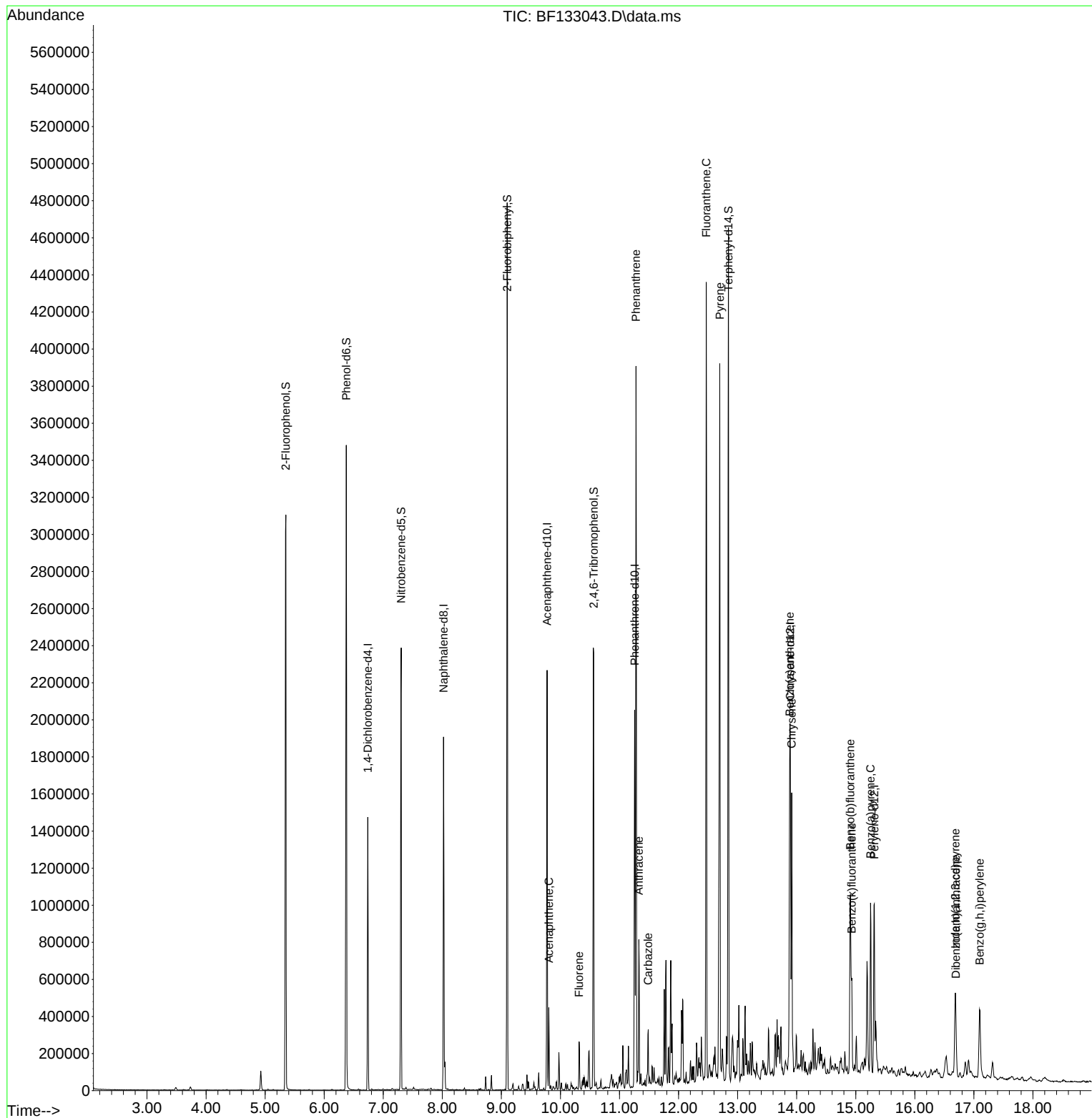
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Data File : BF133043.D
Acq On : 25 Apr 2023 23:31
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Sample : 02270-22
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ALS Vial : 12 Sample Multiplier: 1

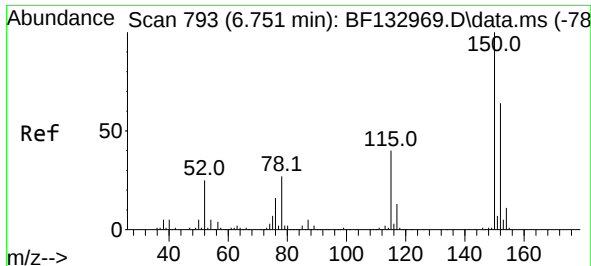
Instrument :
BNA_F
ClientSampleId :
SB-15-0-2-20230412

Quant Time: Apr 26 02:19:31 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
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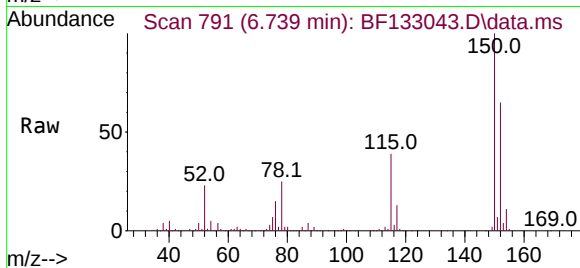
Reviewed By : Christian Giraldo 04/26/2023
Supervised By : Jagrut Upadhyay 04/26/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.739 min Scan# 793
Delta R.T. -0.006 min
Lab File: BF133043.D
Acq: 25 Apr 2023 23:31

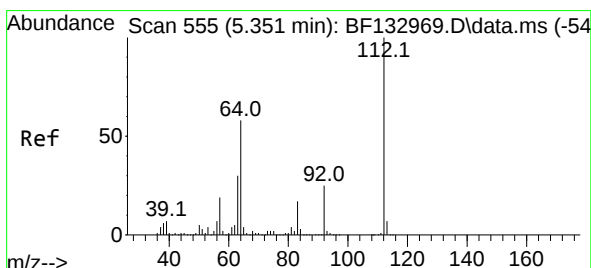
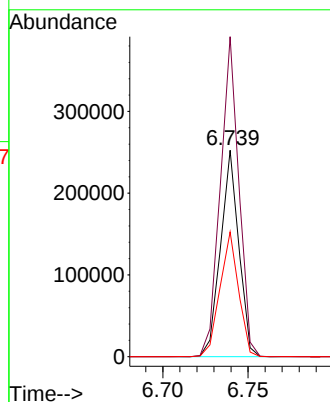
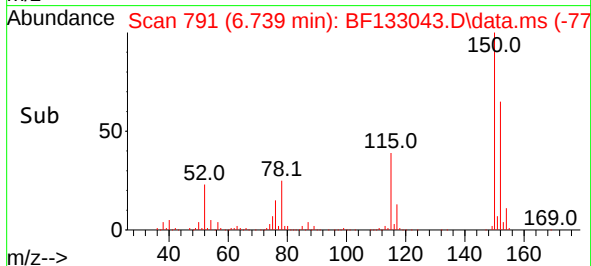
Instrument :
BNA_F
ClientSampleId :
SB-15-0-2-20230412



Tgt Ion:152 Resp: 188469
Ion Ratio Lower Upper
152 100
150 155.0 124.8 187.2
115 60.5 49.9 74.9

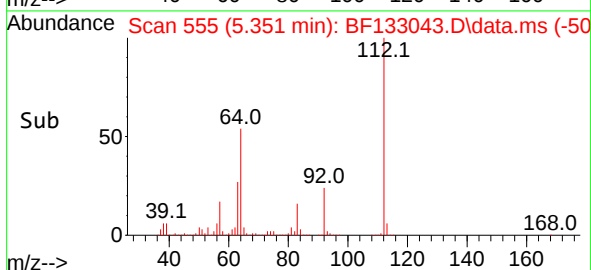
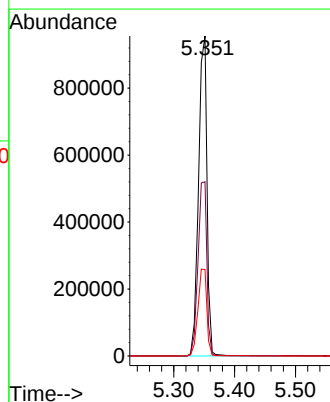
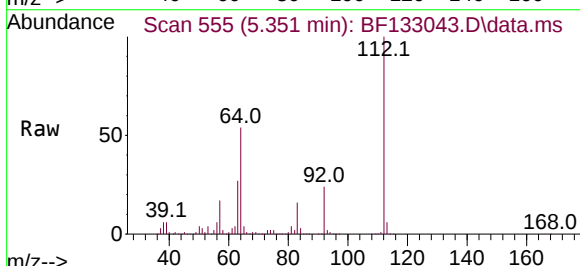
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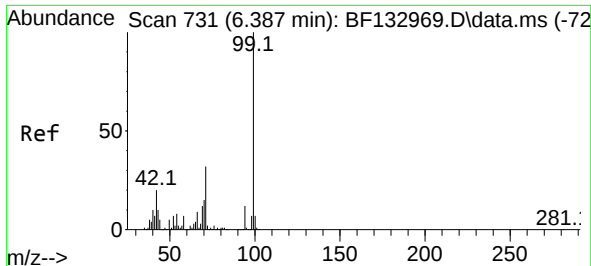
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#5
2-Fluorophenol
Concen: 73.538 ng
RT: 5.351 min Scan# 555
Delta R.T. 0.000 min
Lab File: BF133043.D
Acq: 25 Apr 2023 23:31

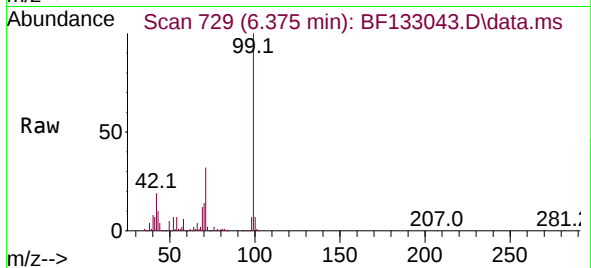
Tgt Ion:112 Resp: 917483
Ion Ratio Lower Upper
112 100
64 54.5 46.8 70.2
63 27.0 23.8 35.8





#7
Phenol-d6
Concen: 76.823 ng
RT: 6.375 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF133043.D
Acq: 25 Apr 2023 23:31

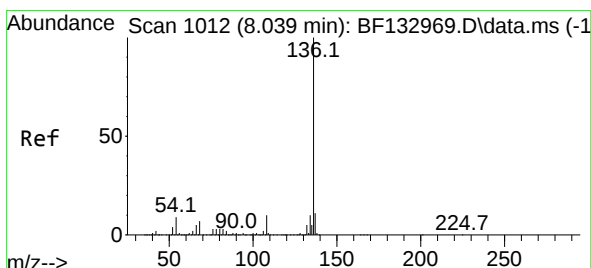
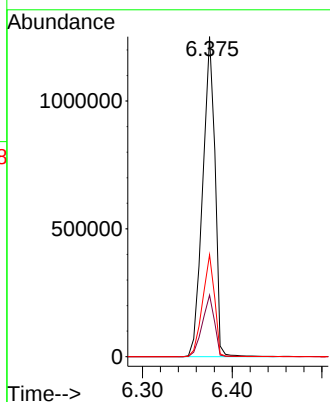
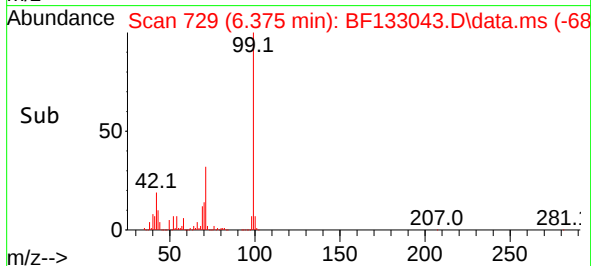
Instrument :
BNA_F
ClientSampleId :
SB-15-0-2-20230412



Tgt Ion: 99 Resp: 118966
Ion Ratio Lower Upper
99 100
42 19.3 16.3 24.5
71 31.8 25.6 38.4

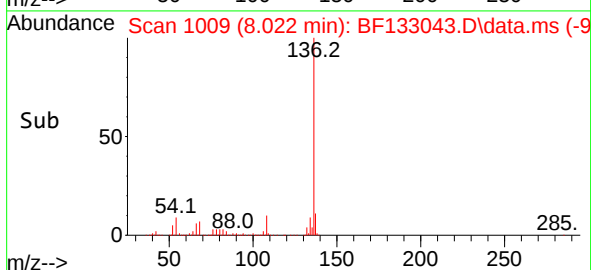
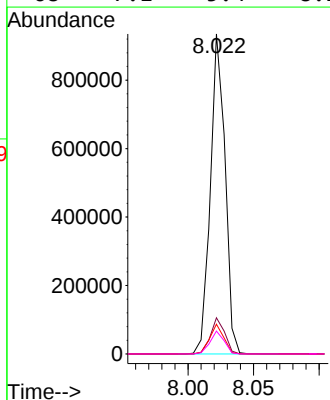
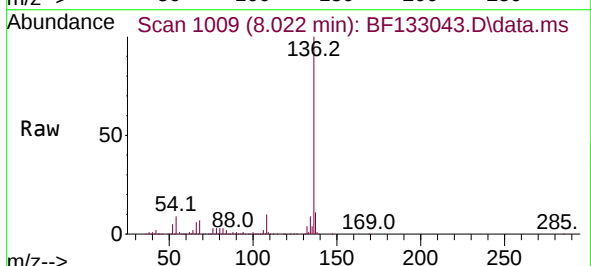
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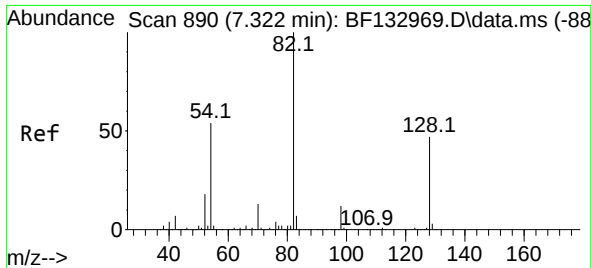
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Supervised By :Jagrut Upadhyay 04/26/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.022 min Scan# 1009
Delta R.T. -0.006 min
Lab File: BF133043.D
Acq: 25 Apr 2023 23:31

Tgt Ion:136 Resp: 729560
Ion Ratio Lower Upper
136 100
137 11.3 8.6 13.0
54 9.3 7.0 10.4
68 7.1 5.4 8.2





#23

Nitrobenzene-d5

Concen: 53.511 ng

RT: 7.304 min Scan# 81

Delta R.T. -0.006 min

Lab File: BF133043.D

Acq: 25 Apr 2023 23:31

Instrument :

BNA_F

ClientSampleId :

SB-15-0-2-20230412

Tgt Ion: 82 Resp: 72326

Ion Ratio Lower Upper

82 100

128 49.3 37.7 56.5

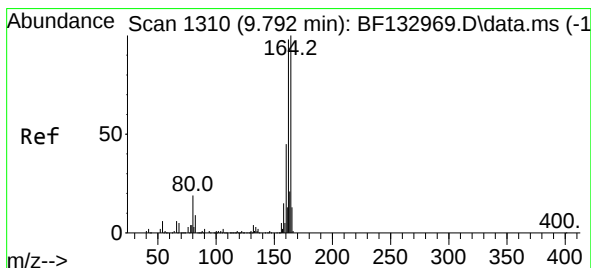
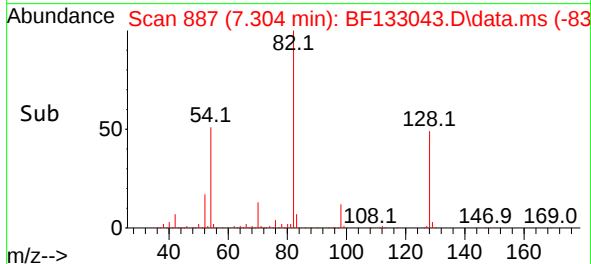
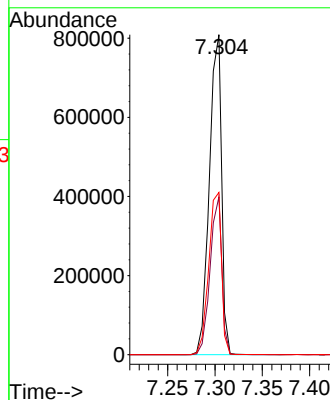
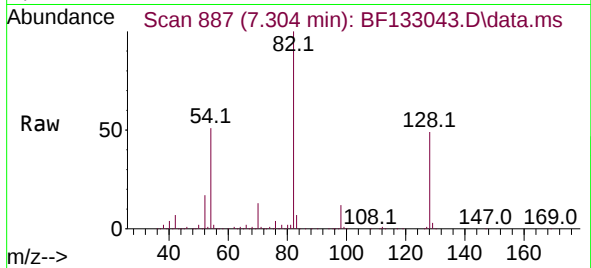
54 50.7 43.0 64.4

Manual Integrations

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.775 min Scan# 1307

Delta R.T. -0.006 min

Lab File: BF133043.D

Acq: 25 Apr 2023 23:31

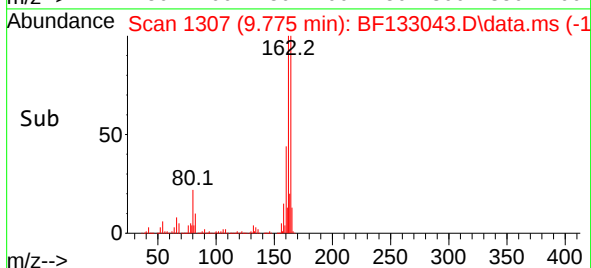
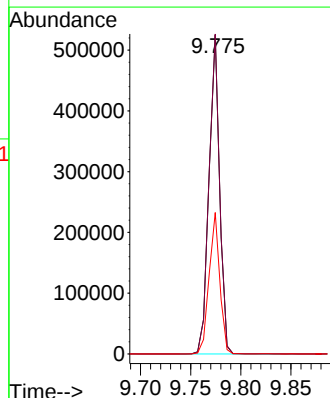
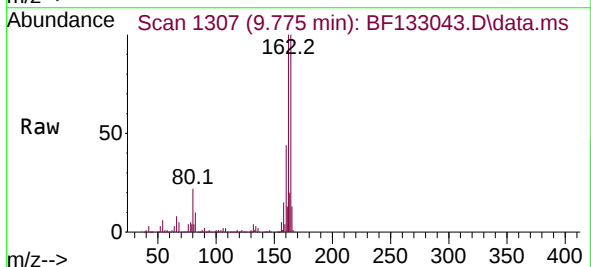
Tgt Ion:164 Resp: 388384

Ion Ratio Lower Upper

164 100

162 100.4 78.7 118.1

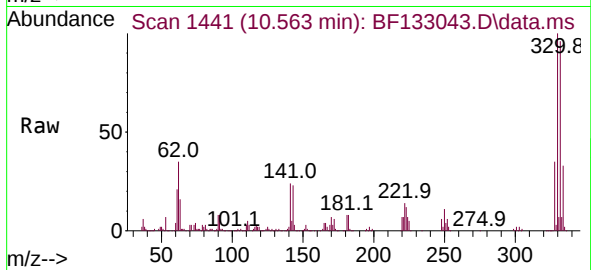
160 44.4 35.8 53.6





#42
2,4,6-Tribromophenol
Concen: 74.697 ng
RT: 10.563 min Scan# 1444
Delta R.T. -0.006 min
Lab File: BF133043.D
Acq: 25 Apr 2023 23:31

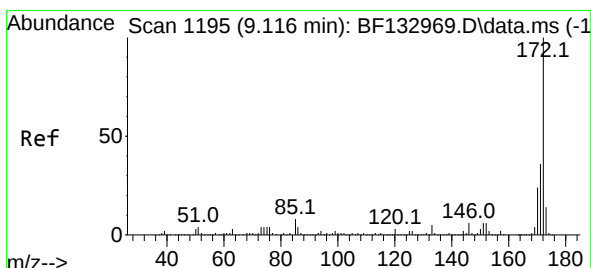
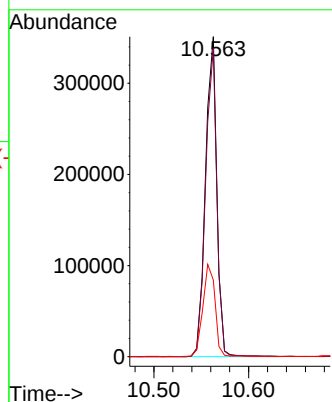
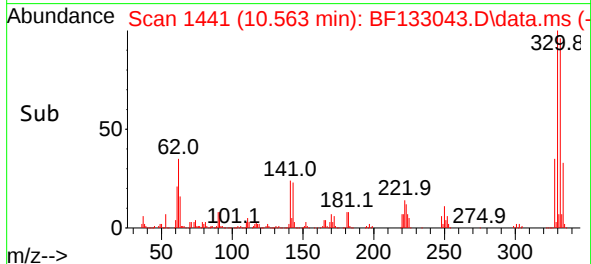
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BNA_F
ClientSampleId :
SB-15-0-2-20230412



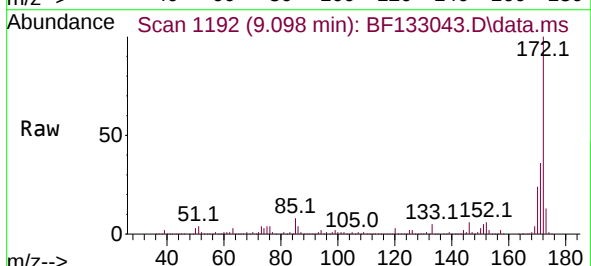
Tgt Ion: 330 Resp: 291764
Ion Ratio Lower Upper
330 100
332 96.1 77.1 115.7
141 31.5 25.8 38.8

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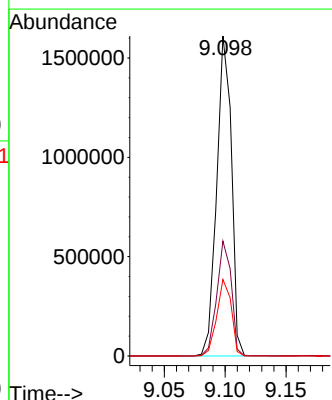
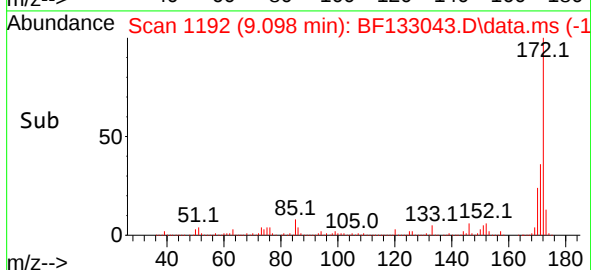
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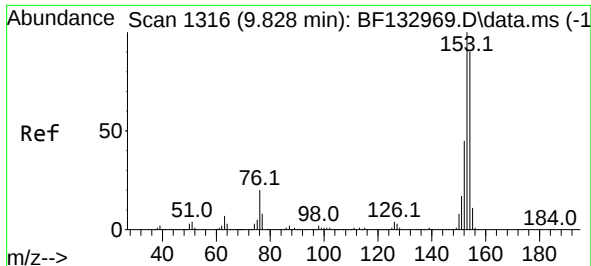


#45
2-Fluorobiphenyl
Concen: 58.324 ng
RT: 9.098 min Scan# 1192
Delta R.T. -0.012 min
Lab File: BF133043.D
Acq: 25 Apr 2023 23:31



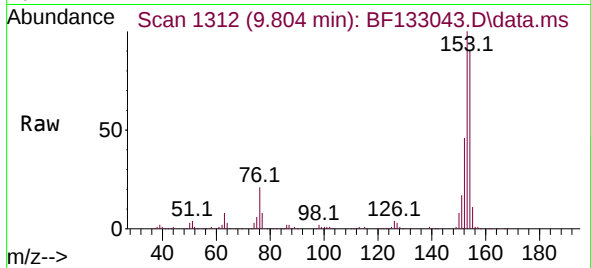
Tgt Ion: 172 Resp: 1353974
Ion Ratio Lower Upper
172 100
171 35.9 28.8 43.2
170 23.9 19.4 29.2





#52
Acenaphthene
Concen: 3.277 ng
RT: 9.804 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF133043.D
Acq: 25 Apr 2023 23:31

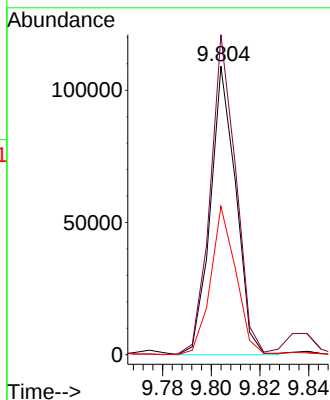
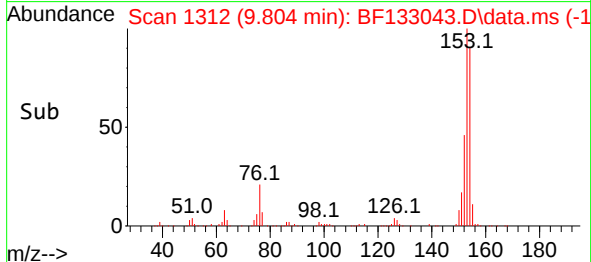
Instrument :
BNA_F
ClientSampleId :
SB-15-0-2-20230412



Tgt Ion:154 Resp: 7905
Ion Ratio Lower Upper
154 100
153 110.9 89.0 133.6
152 51.4 40.4 60.6

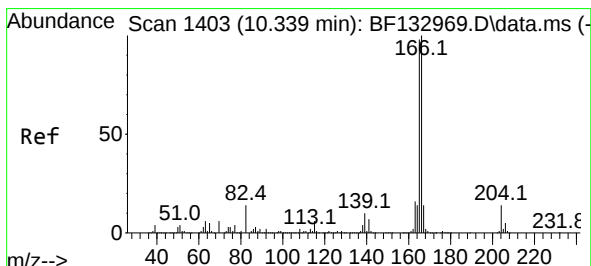
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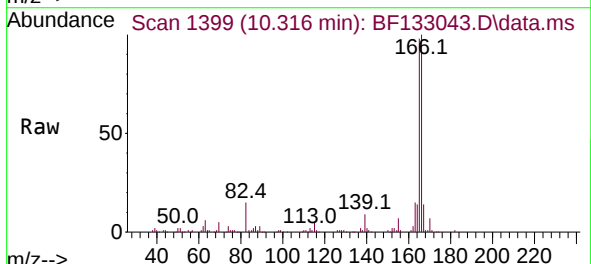


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Upadhyay

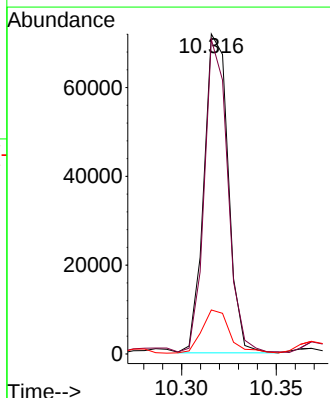
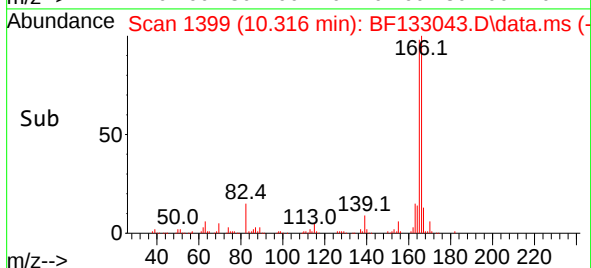
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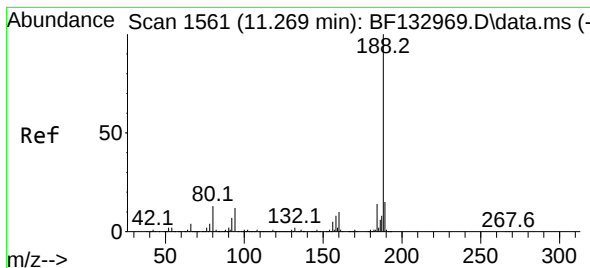


#58
Fluorene
Concen: 2.657 ng
RT: 10.316 min Scan# 1399
Delta R.T. -0.012 min
Lab File: BF133043.D
Acq: 25 Apr 2023 23:31



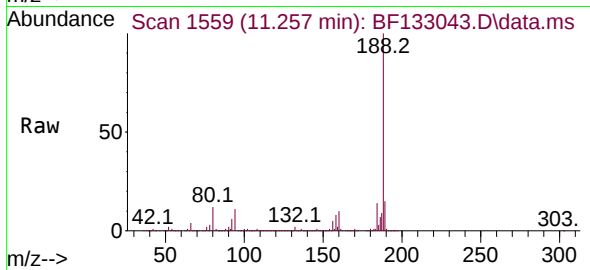
Tgt Ion:166 Resp: 64061
Ion Ratio Lower Upper
166 100
165 98.3 78.6 117.8
167 13.7 11.0 16.4





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.257 min Scan# 1559
Delta R.T. -0.006 min
Lab File: BF133043.D
Acq: 25 Apr 2023 23:31

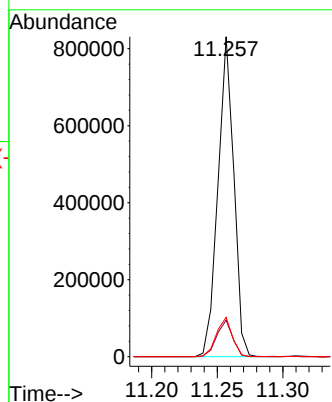
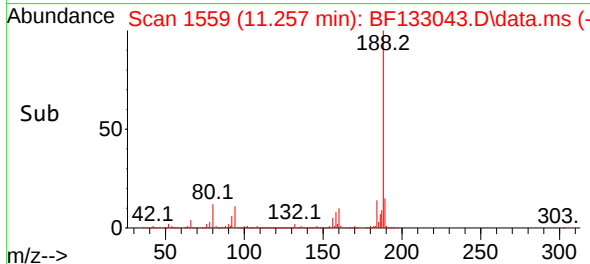
Instrument :
BNA_F
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SB-15-0-2-20230412



Tgt Ion:188 Resp: 697299
Ion Ratio Lower Upper
188 100
94 11.4 9.7 14.5
80 12.3 10.4 15.6

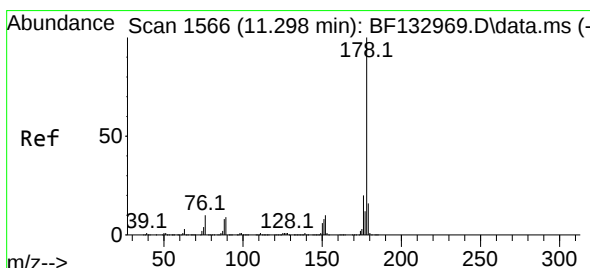
Manual Integrations
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Giraldo



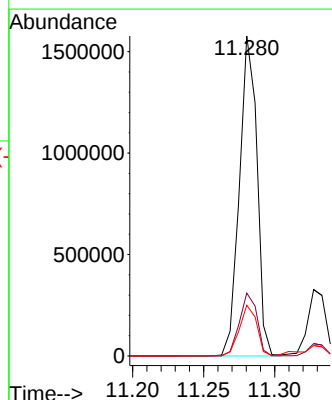
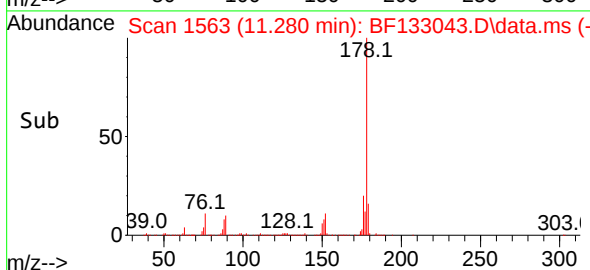
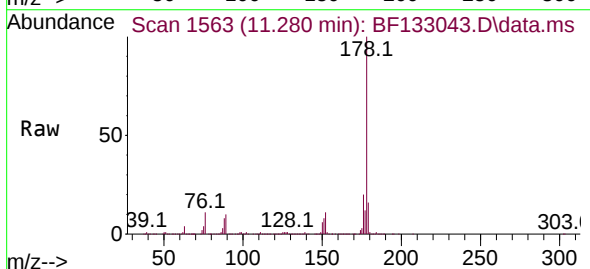
04/26/2023
Supervised By :Jagrut
Upadhyay

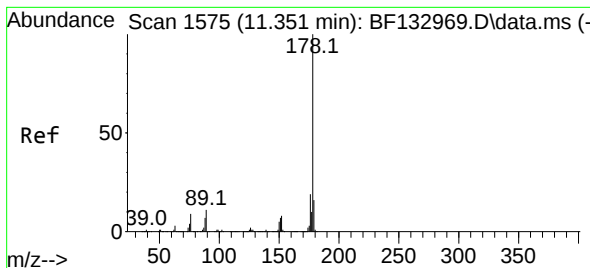
04/26/2023



#71
Phenanthrene
Concen: 36.317 ng
RT: 11.280 min Scan# 1563
Delta R.T. -0.006 min
Lab File: BF133043.D
Acq: 25 Apr 2023 23:31

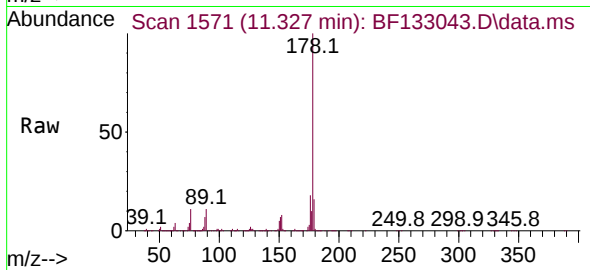
Tgt Ion:178 Resp: 1361083
Ion Ratio Lower Upper
178 100
176 19.7 15.9 23.9
179 15.9 12.5 18.7





#72
 Anthracene
 Concen: 7.395 ng
 RT: 11.327 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF133043.D
 Acq: 25 Apr 2023 23:31

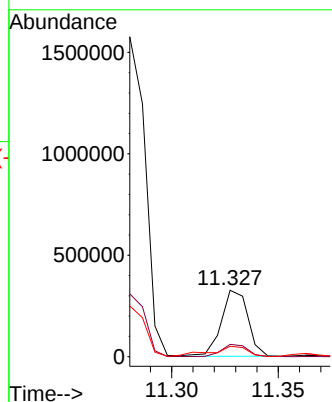
Instrument :
 BNA_F
 ClientSampleId :
 SB-15-0-2-20230412



Tgt Ion:178 Resp: 28363
 Ion Ratio Lower Upper
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 176 18.5 15.4 23.0
 179 15.8 12.4 18.6

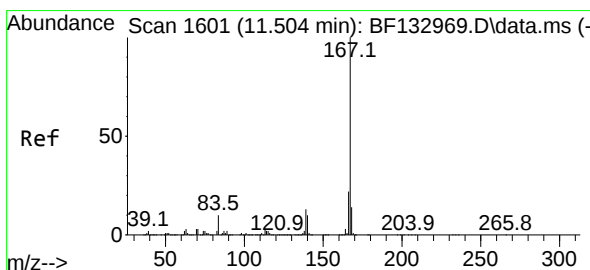
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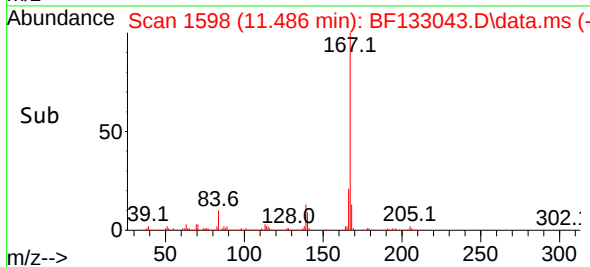
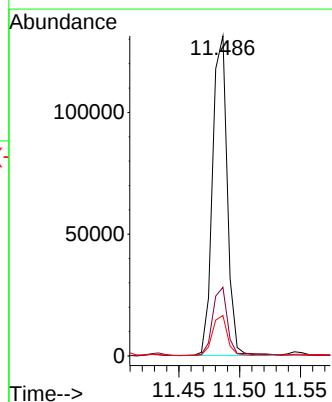
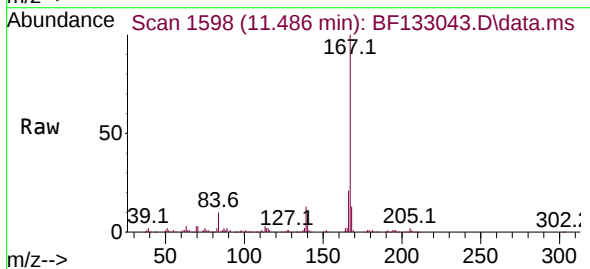
04/26/2023
 Supervised By :Jagrut
 Upadhyay

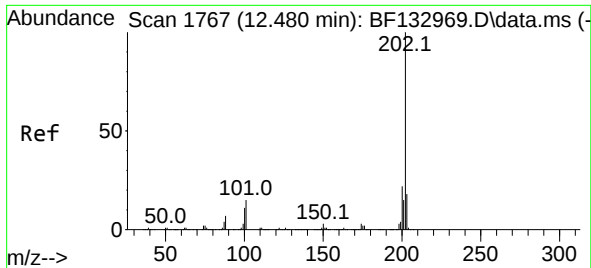
04/26/2023



#73
 Carbazole
 Concen: 3.223 ng
 RT: 11.486 min Scan# 1598
 Delta R.T. -0.006 min
 Lab File: BF133043.D
 Acq: 25 Apr 2023 23:31

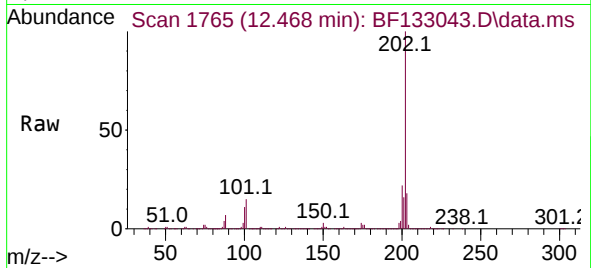
Tgt Ion:167 Resp: 110061
 Ion Ratio Lower Upper
 167 100
 166 21.5 17.4 26.0
 139 12.7 10.6 16.0





#75
Fluoranthene
Concen: 43.947 ng
RT: 12.468 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133043.D
Acq: 25 Apr 2023 23:31

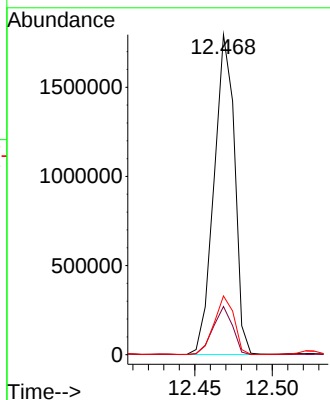
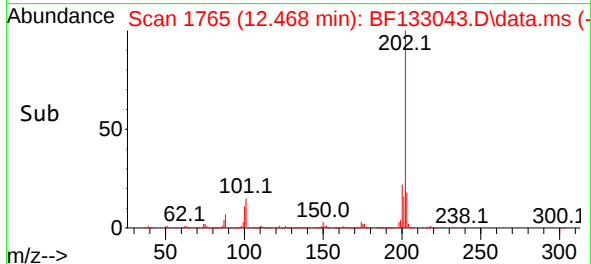
Instrument :
BNA_F
ClientSampleId :
SB-15-0-2-20230412



Tgt Ion:202 Resp: 1652972
Ion Ratio Lower Upper
202 100
101 15.0 0.0 35.3
203 18.4 0.0 38.1

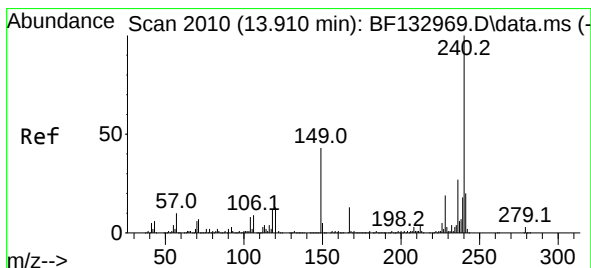
Manual Integrations
APPROVED

Reviewed By :Christian
Giraldo



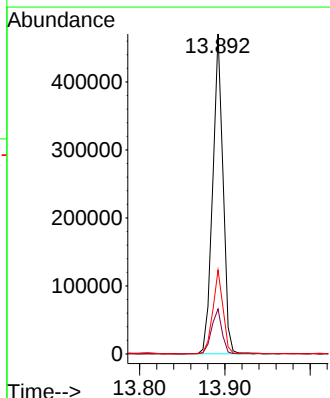
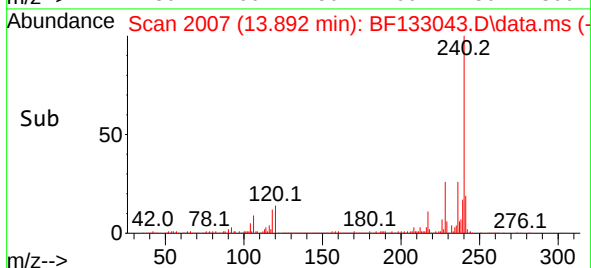
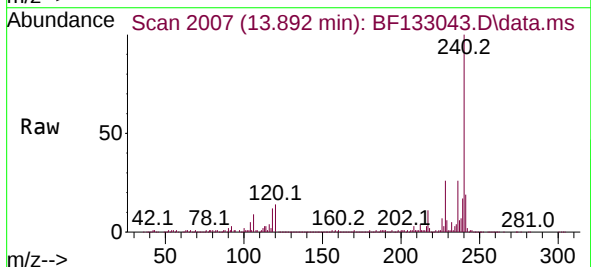
04/26/2023
Supervised By :Jagrut
Upadhyay

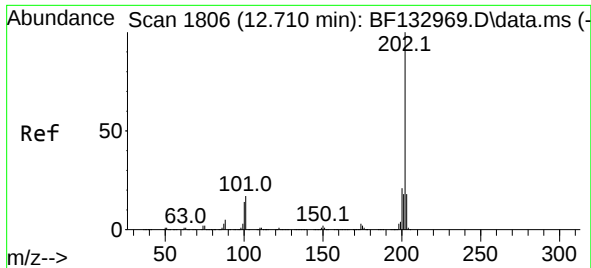
04/26/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.892 min Scan# 2007
Delta R.T. -0.006 min
Lab File: BF133043.D
Acq: 25 Apr 2023 23:31

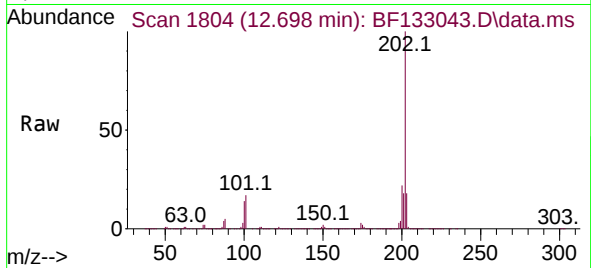
Tgt Ion:240 Resp: 396570
Ion Ratio Lower Upper
240 100
120 14.0 10.5 15.7
236 26.3 21.5 32.3





#78
Pyrene
Concen: 43.663 ng
RT: 12.698 min Scan# 1804
Delta R.T. 0.000 min
Lab File: BF133043.D
Acq: 25 Apr 2023 23:31

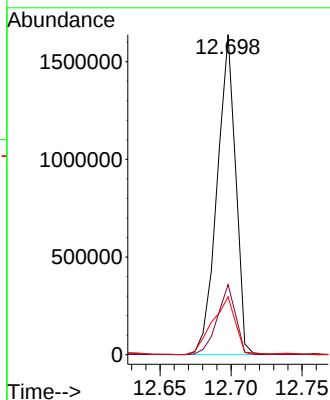
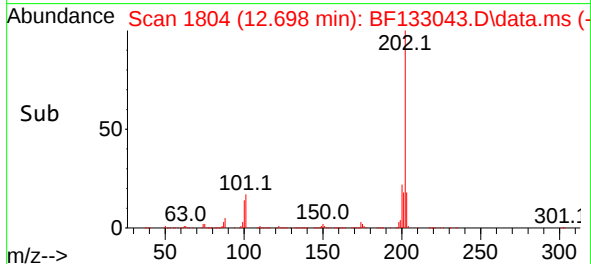
Instrument :
BNA_F
ClientSampleId :
SB-15-0-2-20230412



Tgt Ion:202 Resp: 1484330
Ion Ratio Lower Upper
202 100
200 21.9 17.1 25.7
203 18.1 14.1 21.1

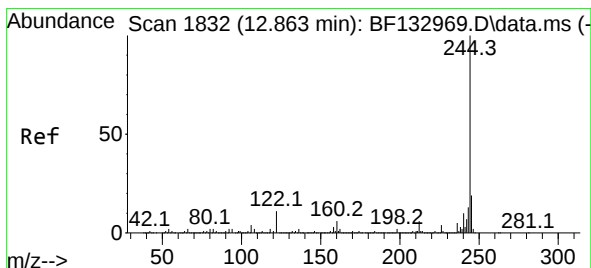
Manual Integrations
APPROVED

Reviewed By :Christian
Giraldo



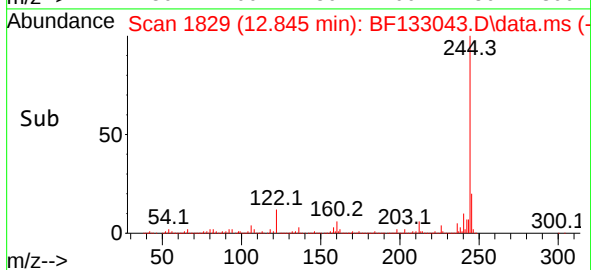
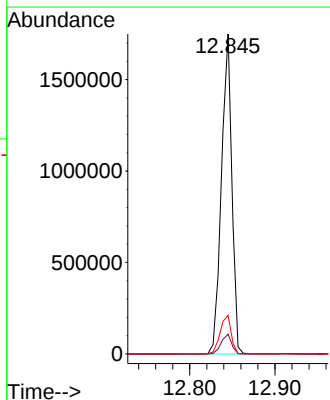
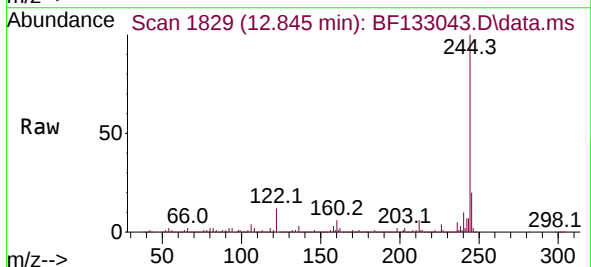
04/26/2023
Supervised By :Jagrut
Upadhyay

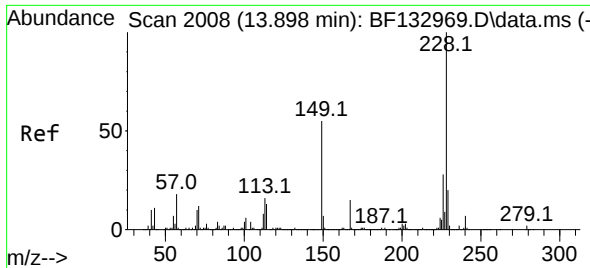
04/26/2023



#79
Terphenyl-d14
Concen: 64.607 ng
RT: 12.845 min Scan# 1829
Delta R.T. -0.006 min
Lab File: BF133043.D
Acq: 25 Apr 2023 23:31

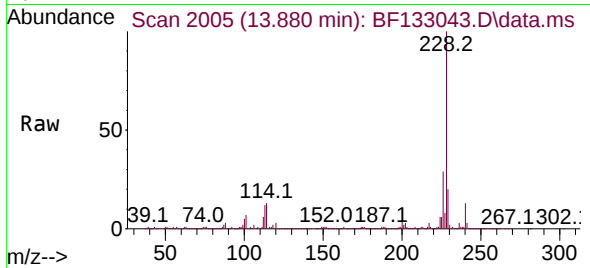
Tgt Ion:244 Resp: 1485575
Ion Ratio Lower Upper
244 100
212 6.2 5.1 7.7
122 12.0 8.6 13.0





#81
Benzo(a)anthracene
Concen: 20.221 ng
RT: 13.880 min Scan# 2010
Delta R.T. -0.006 min
Lab File: BF133043.D
Acq: 25 Apr 2023 23:31

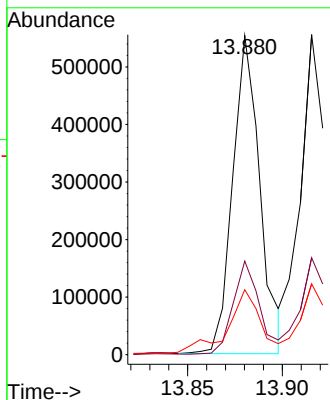
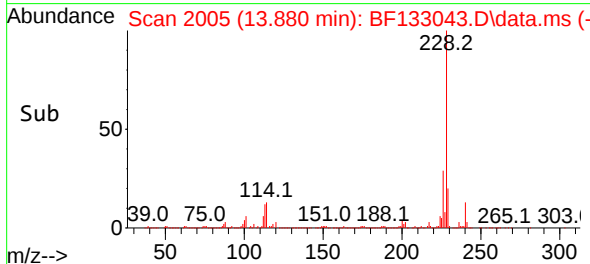
Instrument :
BNA_F
ClientSampleId :
SB-15-0-2-20230412



Tgt Ion:228 Resp: 55144
Ion Ratio Lower Upper
228 100
226 29.3 22.2 33.4
229 20.4 16.0 24.0

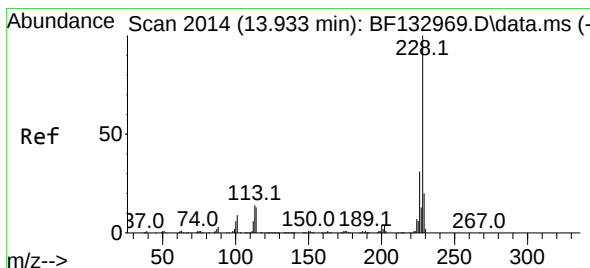
Manual Integrations
APPROVED

Reviewed By :Christian
Giraldo



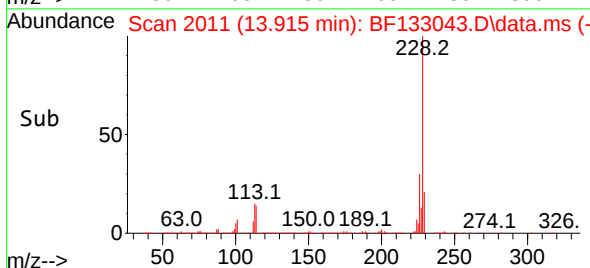
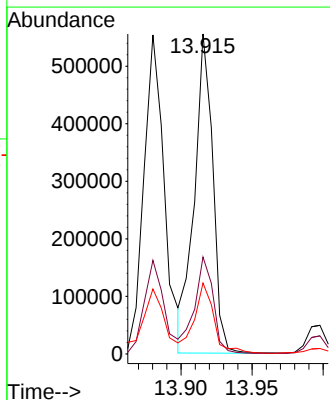
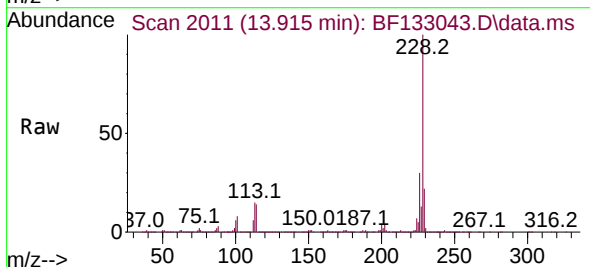
04/26/2023
Supervised By :Jagrut
Upadhyay

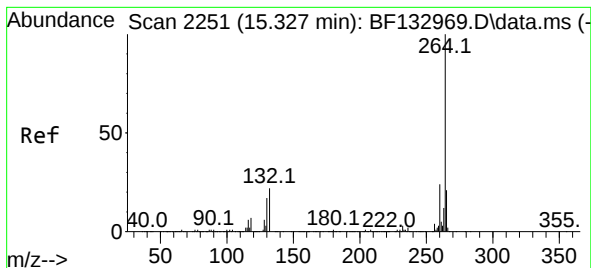
04/26/2023



#83
Chrysene
Concen: 18.409 ng
RT: 13.915 min Scan# 2011
Delta R.T. -0.012 min
Lab File: BF133043.D
Acq: 25 Apr 2023 23:31

Tgt Ion:228 Resp: 501904
Ion Ratio Lower Upper
228 100
226 30.3 24.7 37.1
229 22.1 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.315 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF133043.D

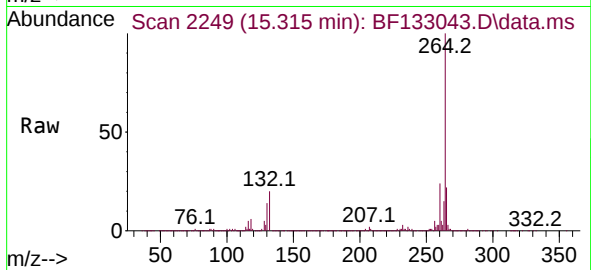
Acq: 25 Apr 2023 23:31

Instrument :

BNA_F

ClientSampleId :

SB-15-0-2-20230412



Tgt Ion:264 Resp: 394394

Ion Ratio Lower Upper

264 100

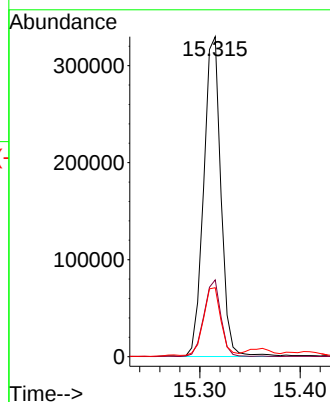
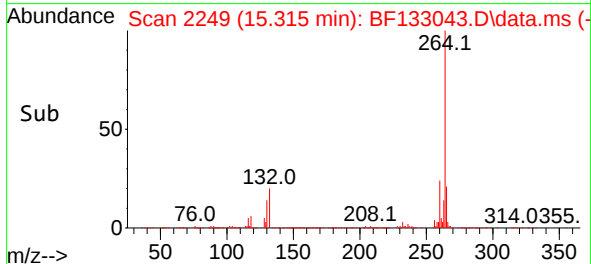
260 24.0 18.8 28.2

265 21.6 17.0 25.4

Manual Integrations

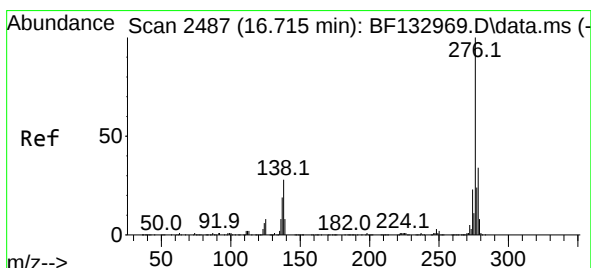
APPROVED

Reviewed By :Christian
Giraldo



04/26/2023
Supervised By :Jagrut
Upadhyay

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#87

Indeno(1,2,3-cd)pyrene

Concen: 12.583 ng

RT: 16.686 min Scan# 2482

Delta R.T. -0.018 min

Lab File: BF133043.D

Acq: 25 Apr 2023 23:31

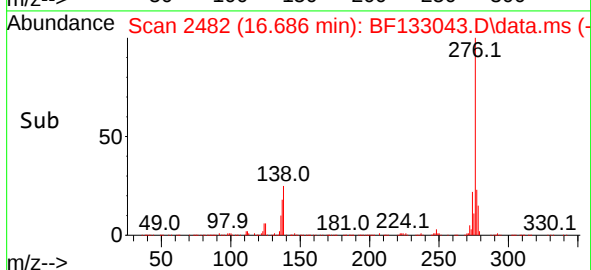
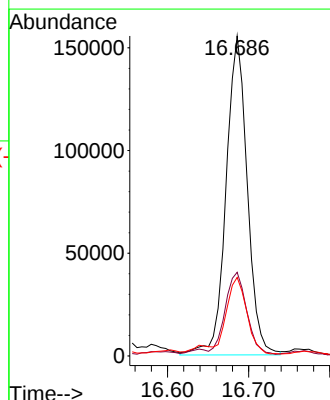
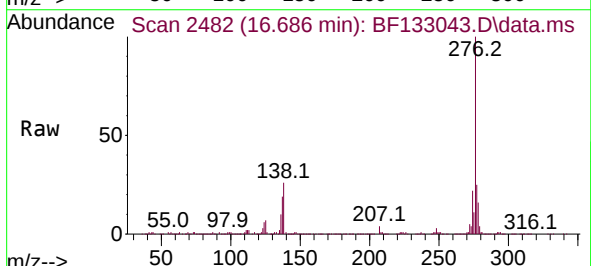
Tgt Ion:276 Resp: 282293

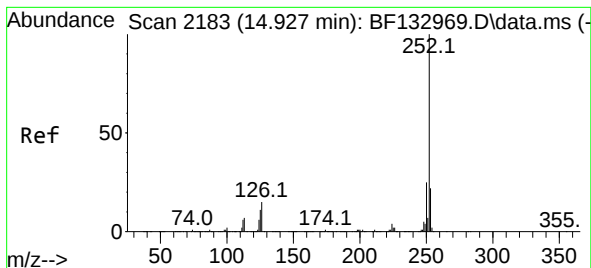
Ion Ratio Lower Upper

276 100

138 26.7 25.5 38.3

277 23.6 20.4 30.6





#88

Benzo(b)fluoranthene

Concen: 22.415 ng m

RT: 14.909 min Scan# 2180

Delta R.T. -0.006 min

Lab File: BF133043.D

Acq: 25 Apr 2023 23:31

Instrument :

BNA_F

ClientSampleId :

SB-15-0-2-20230412

Tgt Ion:252 Resp: 562409

Ion Ratio Lower Upper

252 100

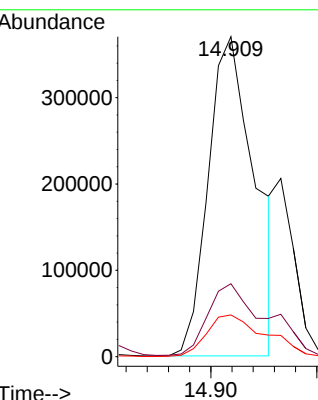
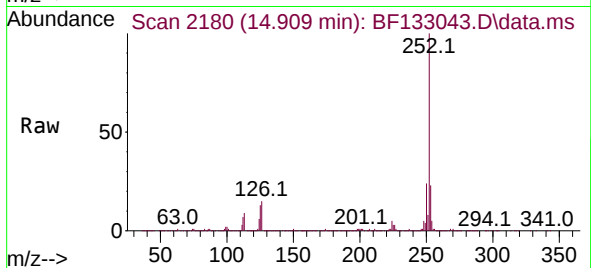
253 22.8 17.6 26.4

125 13.1 8.9 13.3

Manual Integrations

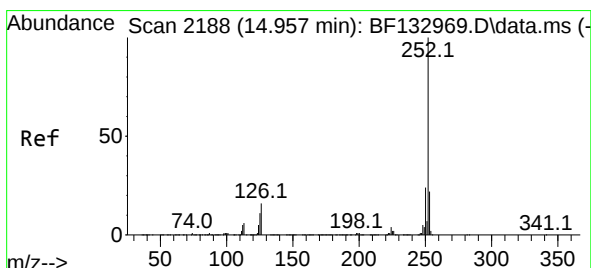
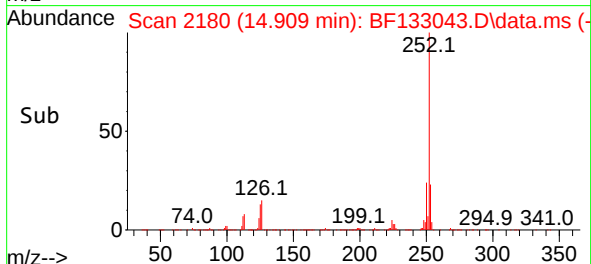
APPROVED

Reviewed By :Christian
Giraldo



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Supervised By :Jagrut
Upadhyay

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#89

Benzo(k)fluoranthene

Concen: 5.214 ng m

RT: 14.933 min Scan# 2184

Delta R.T. -0.006 min

Lab File: BF133043.D

Acq: 25 Apr 2023 23:31

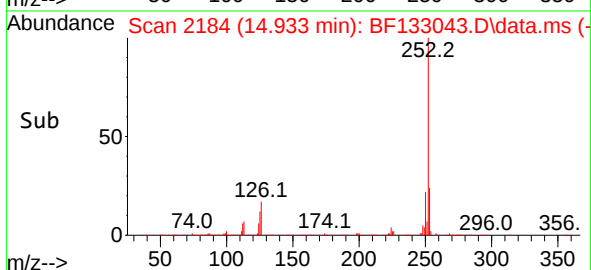
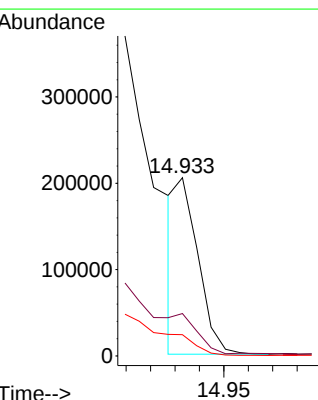
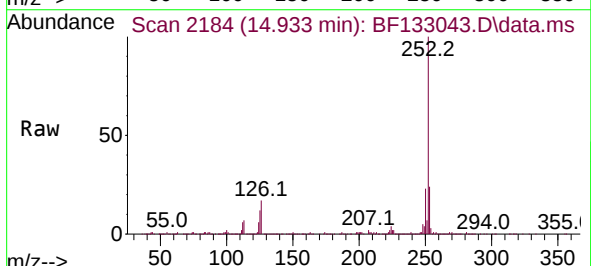
Tgt Ion:252 Resp: 129685

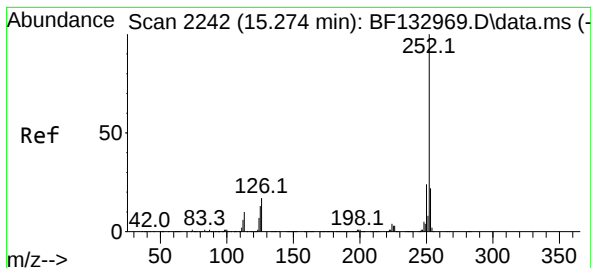
Ion Ratio Lower Upper

252 100

253 23.8 17.7 26.5

125 11.9 9.0 13.4





#90

Benzo(a)pyrene

Concen: 17.600 ng

RT: 15.251 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF133043.D

Acq: 25 Apr 2023 23:31

Instrument :

BNA_F

ClientSampleId :

SB-15-0-2-20230412

Tgt Ion:252 Resp: 40194

Ion Ratio Lower Upper

252 100

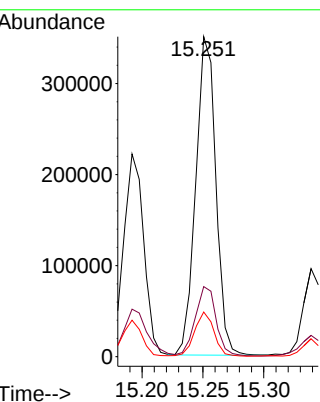
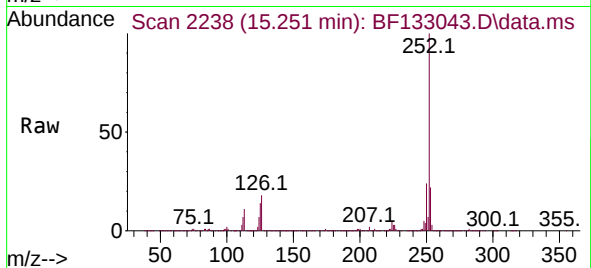
253 21.9 17.7 26.5

125 13.9 10.5 15.7

Manual Integrations

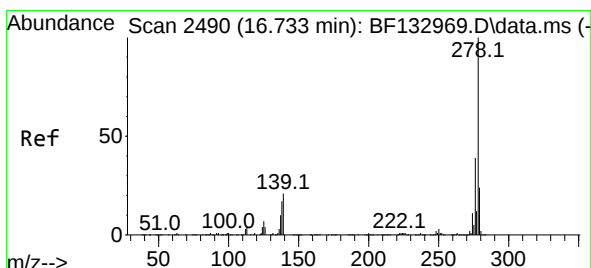
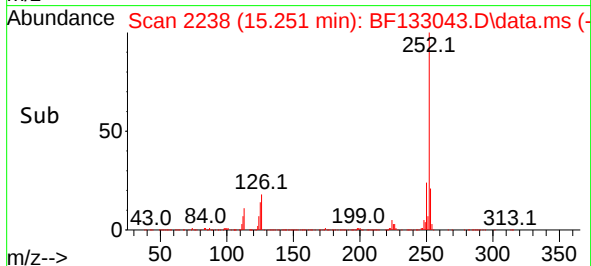
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Reviewed By :Christian
Giraldo



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Supervised By :Jagrut
Upadhyay

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#91

Dibenzo(a,h)anthracene

Concen: 3.545 ng

RT: 16.698 min Scan# 2484

Delta R.T. -0.023 min

Lab File: BF133043.D

Acq: 25 Apr 2023 23:31

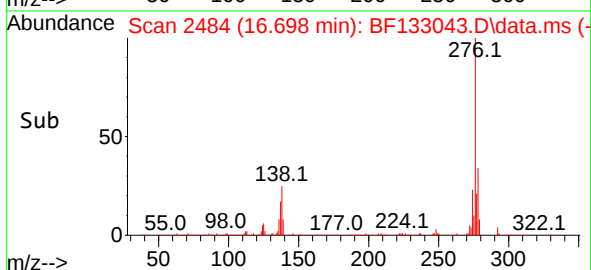
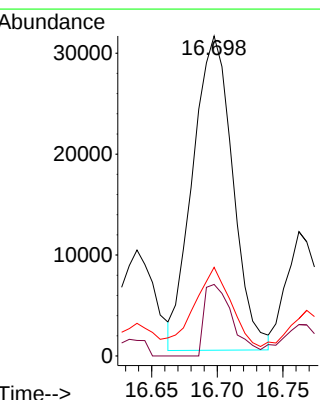
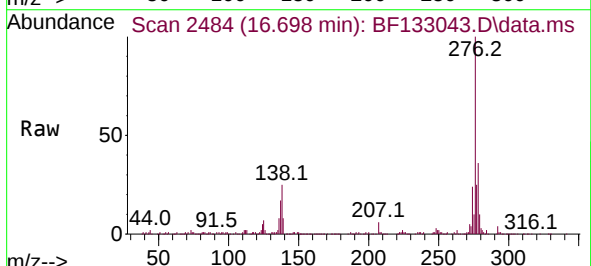
Tgt Ion:278 Resp: 66334

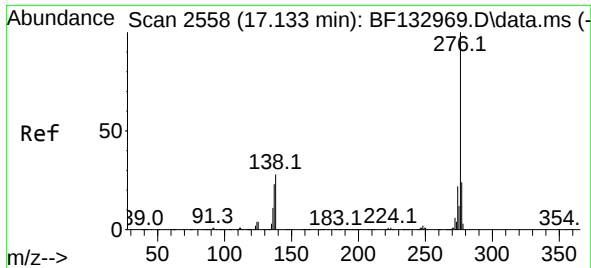
Ion Ratio Lower Upper

278 100

139 22.3 16.6 24.8

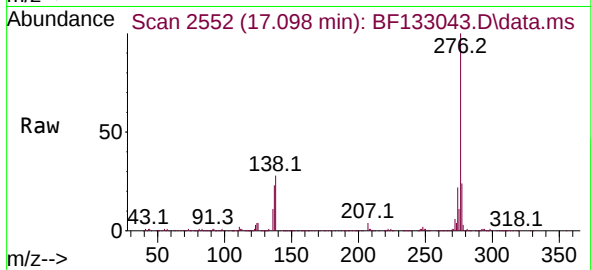
279 27.7 18.8 28.2





#92
 Benzo(g,h,i)perylene
 Concen: 14.279 ng
 RT: 17.098 min Scan# 21
 Delta R.T. -0.023 min
 Lab File: BF133043.D
 Acq: 25 Apr 2023 23:31

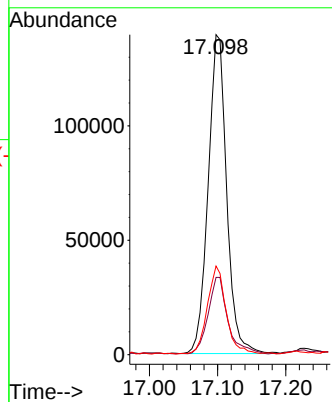
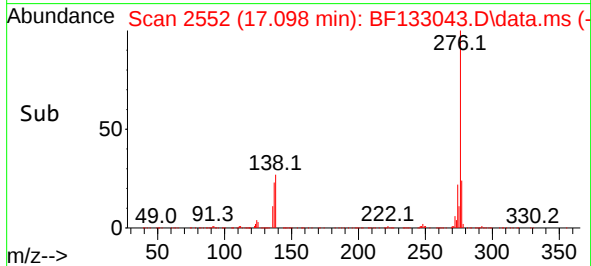
Instrument :
 BNA_F
 ClientSampleId :
 SB-15-0-2-20230412



Tgt Ion: 276 Resp: 26376
 Ion Ratio Lower Upper
 276 100
 277 24.2 19.4 29.0
 138 27.7 22.7 34.1

Manual Integrations
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 Giraldo



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 Supervised By :Jagrut
 Upadhyay

04/26/2023