

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042523\
 Data File : BF133052.D
 Acq On : 26 Apr 2023 04:08
 Operator : CG\JU
 Sample : 02270-10 10X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-27-0-2-20230411

Manual Integrations
 APPROVED

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

Quant Time: Apr 26 05:16:58 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	206116	20.000	ng	0.00
21) Naphthalene-d8	8.028	136	760039	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	362407	20.000	ng	0.00
64) Phenanthrene-d10	11.263	188	548421	20.000	ng	0.00
76) Chrysene-d12	13.915	240	330836	20.000	ng	0.02
86) Perylene-d12	15.339	264	339171	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.345	112	106387	7.797	ng	0.00
7) Phenol-d6	6.369	99	132283	7.811	ng	-0.02
23) Nitrobenzene-d5	7.298	82	68740	4.882	ng	-0.01
42) 2,4,6-Tribromophenol	10.563	330	20666	5.670	ng	0.00
45) 2-Fluorobiphenyl	9.098	172	152486	7.039	ng	-0.01
79) Terphenyl-d14	12.845	244	128722	6.710	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.045	128	278329	7.325	ng	99
37) 2-Methylnaphthalene	8.733	142	83627	3.219	ng	98
38) 1-Methylnaphthalene	8.833	142	56074	2.307	ng	100
52) Acenaphthene	9.810	154	571020	25.368	ng	99
55) Dibenzofuran	9.980	168	344535	11.221	ng	98
58) Fluorene	10.322	166	514225	22.859	ng	98
71) Phenanthrene	11.292	178	3656530	124.051	ng	99
72) Anthracene	11.339	178	1438197	47.677	ng	99
73) Carbazole	11.486	167	495523	18.448	ng	100
75) Fluoranthene	12.492	202	6082598	205.615	ng	96
78) Pyrene	12.721	202	5413893	190.897	ng	96
81) Benzo(a)anthracene	13.904	228	4322626	190.001	ng	97
83) Chrysene	13.945	228	3605740m	158.529	ng	
87) Indeno(1,2,3-cd)pyrene	16.733	276	1483804	76.910	ng	95
88) Benzo(b)fluoranthene	14.945	252	4628540m	214.506	ng	
89) Benzo(k)fluoranthene	14.962	252	1323797m	61.890	ng	
90) Benzo(a)pyrene	15.292	252	2872639	146.264	ng	97
91) Dibenzo(a,h)anthracene	16.739	278	462874	28.766	ng	96
92) Benzo(g,h,i)perylene	17.151	276	1289247	81.156	ng	99

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

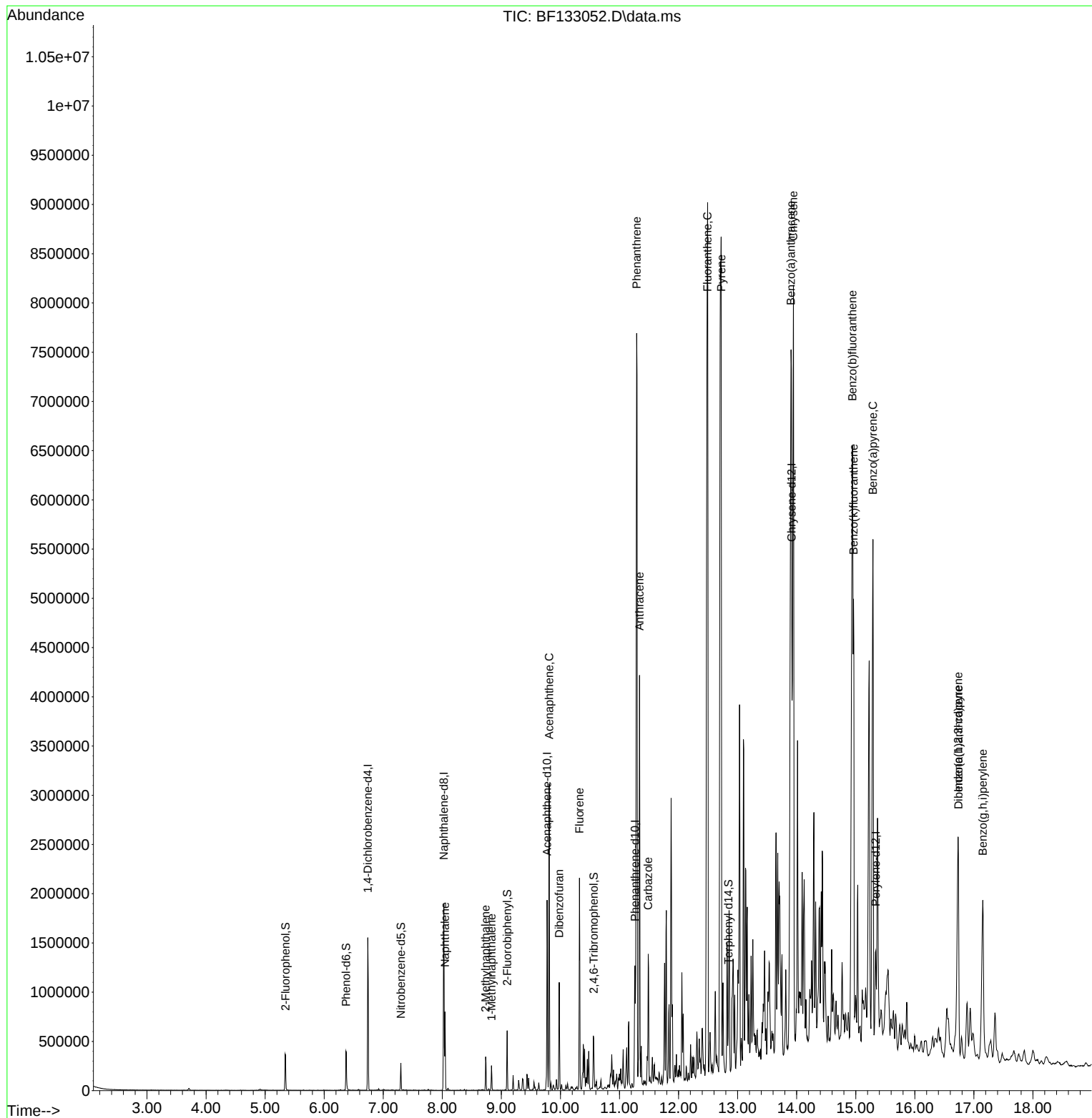
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042523\
Data File : BF133052.D
Acq On : 26 Apr 2023 04:08
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Sample : 02270-10 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

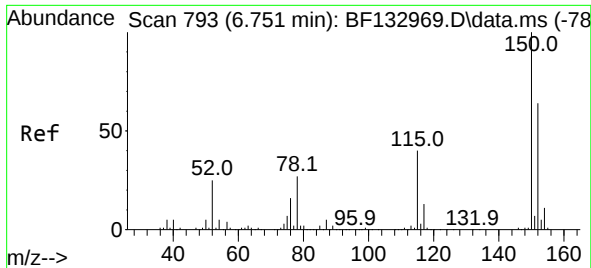
Instrument :
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ClientSampleId :
SB-27-0-2-20230411

Quant Time: Apr 26 05:16:58 2023
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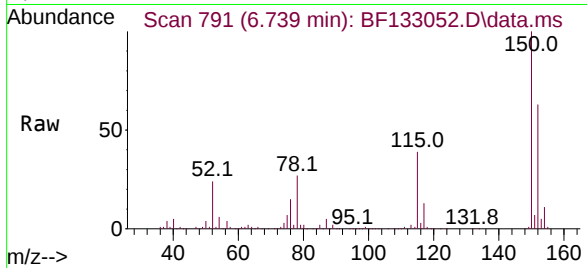
Reviewed By : Christian Giraldo 04/26/2023
Supervised By : Jagrut Upadhyay 04/26/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.739 min Scan# 793
Delta R.T. -0.006 min
Lab File: BF133052.D
Acq: 26 Apr 2023 04:08

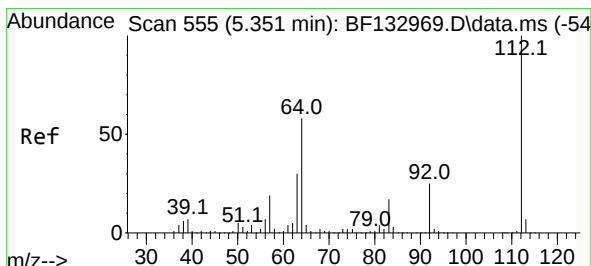
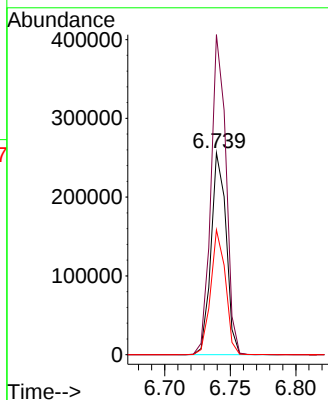
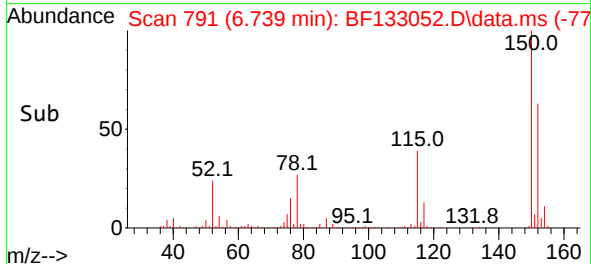
Instrument :
BNA_F
ClientSampleId :
SB-27-0-2-20230411



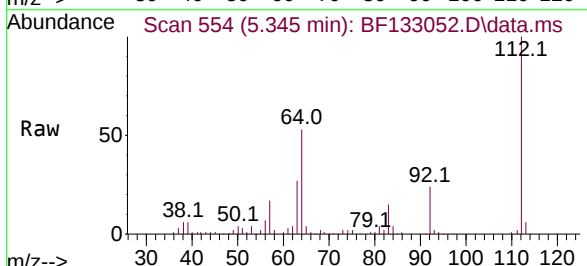
Tgt Ion:152 Resp: 206110
Ion Ratio Lower Upper
152 100
150 158.6 124.8 187.2
115 61.8 49.9 74.9

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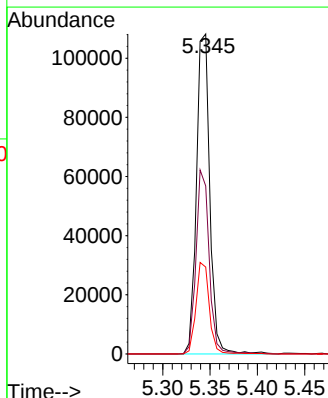
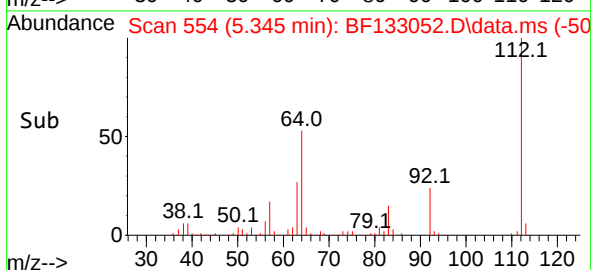
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023

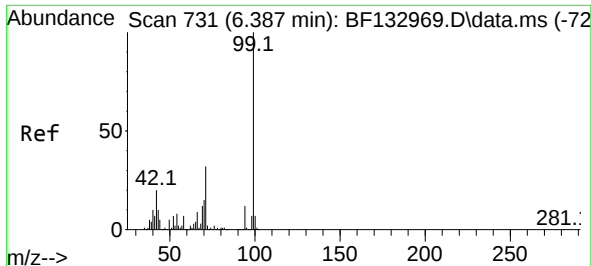


#5
2-Fluorophenol
Concen: 7.797 ng
RT: 5.345 min Scan# 554
Delta R.T. -0.006 min
Lab File: BF133052.D
Acq: 26 Apr 2023 04:08



Tgt Ion:112 Resp: 106387
Ion Ratio Lower Upper
112 100
64 52.5 46.8 70.2
63 27.2 23.8 35.8





#7

Phenol-d6

Concen: 7.811 ng

RT: 6.369 min Scan# 71

Delta R.T. -0.018 min

Lab File: BF133052.D

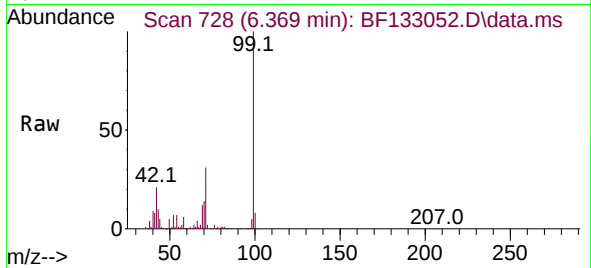
Acq: 26 Apr 2023 04:08

Instrument :

BNA_F

ClientSampleId :

SB-27-0-2-20230411



Tgt Ion: 99 Resp: 13228

Ion Ratio Lower Upper

99 100

42 20.9 16.3 24.5

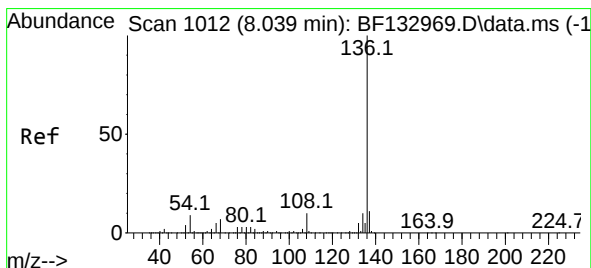
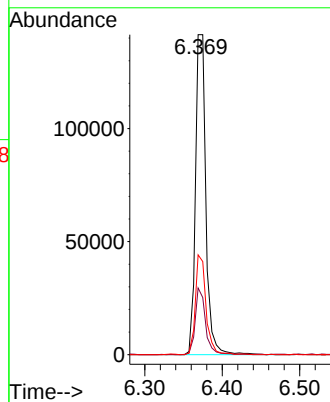
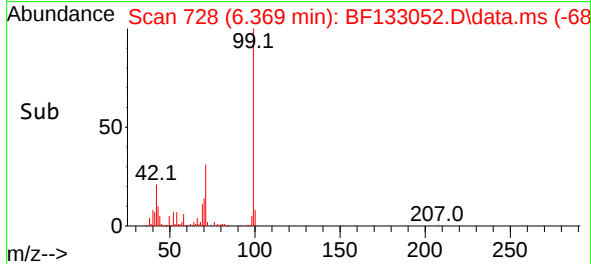
71 31.2 25.6 38.4

Manual Integrations

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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: BF133052.D

Acq: 26 Apr 2023 04:08

Tgt Ion:136 Resp: 760039

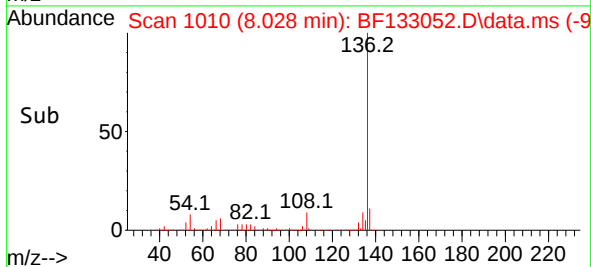
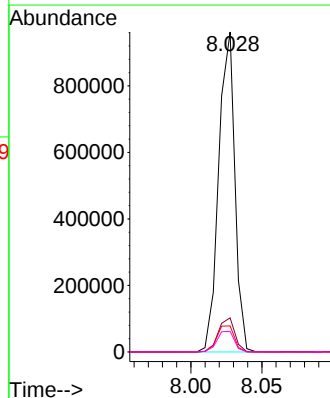
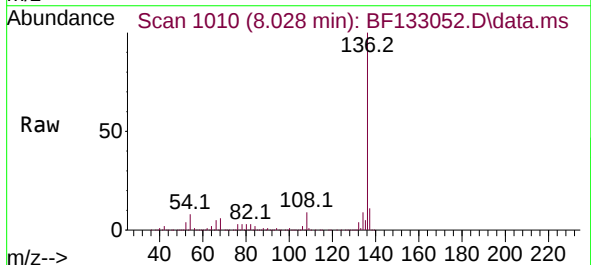
Ion Ratio Lower Upper

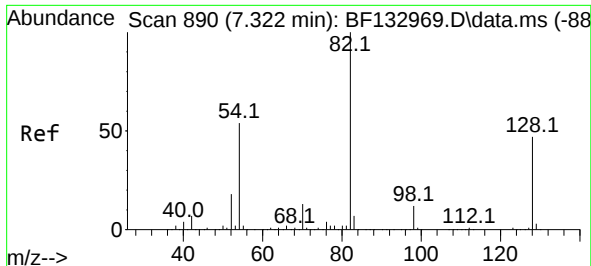
136 100

137 10.6 8.6 13.0

54 8.2 7.0 10.4

68 6.4 5.4 8.2





#23

Nitrobenzene-d5

Concen: 4.882 ng

RT: 7.298 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF133052.D

Acq: 26 Apr 2023 04:08

Instrument :

BNA_F

ClientSampleId :

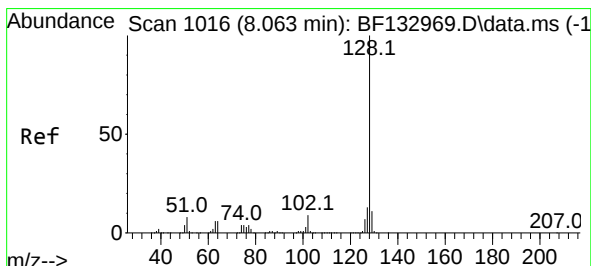
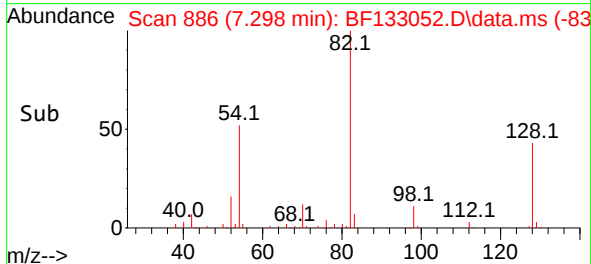
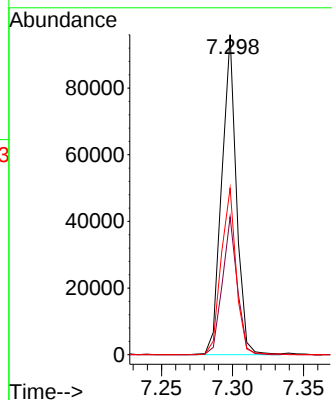
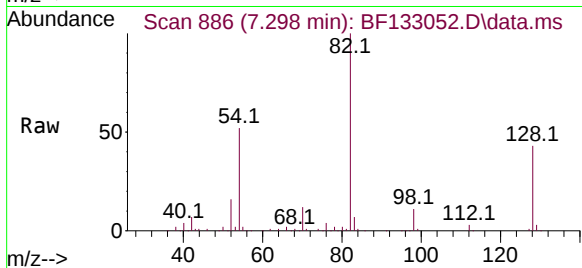
SB-27-0-2-20230411

Tgt Ion: 82 Resp: 68740
 Ion Ratio Lower Upper
 82 100
 128 43.1 37.7 56.5
 54 52.1 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: 7.325 ng

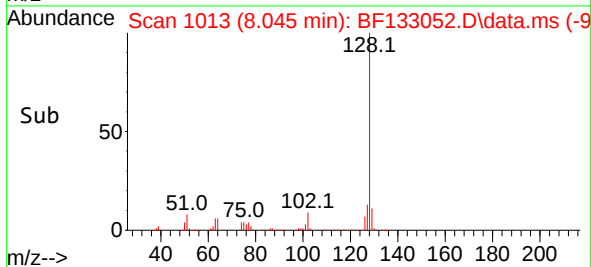
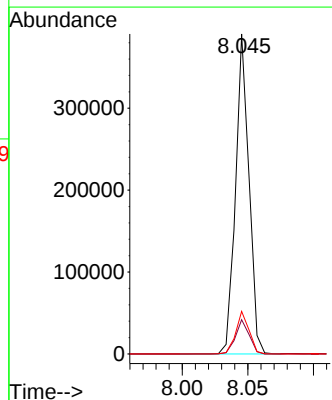
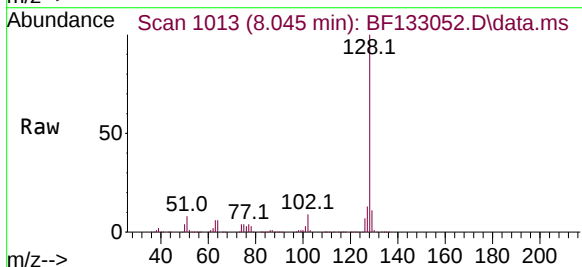
RT: 8.045 min Scan# 1013

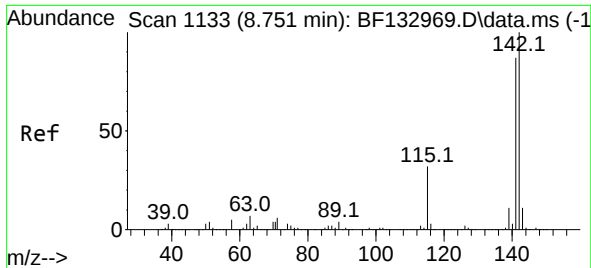
Delta R.T. -0.006 min

Lab File: BF133052.D

Acq: 26 Apr 2023 04:08

Tgt Ion:128 Resp: 278329
 Ion Ratio Lower Upper
 128 100
 129 10.7 8.8 13.2
 127 13.3 10.7 16.1





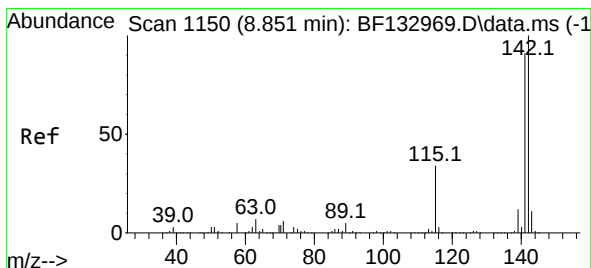
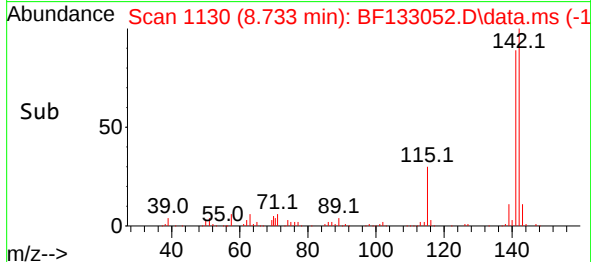
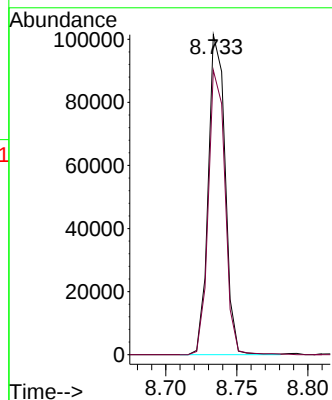
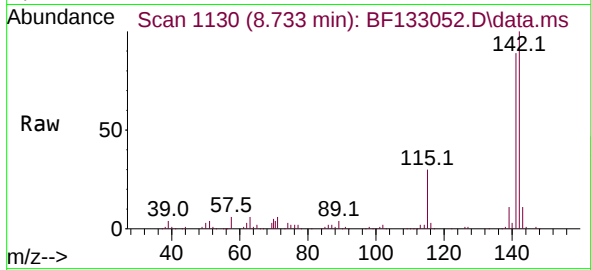
#37
2-Methylnaphthalene
Concen: 3.219 ng
RT: 8.733 min Scan# 1133
Delta R.T. -0.006 min
Lab File: BF133052.D
Acq: 26 Apr 2023 04:08

Instrument :
BNA_F
ClientSampleId :
SB-27-0-2-20230411

Tgt Ion:142 Resp: 8362
Ion Ratio Lower Upper
142 100
141 88.9 69.4 104.0

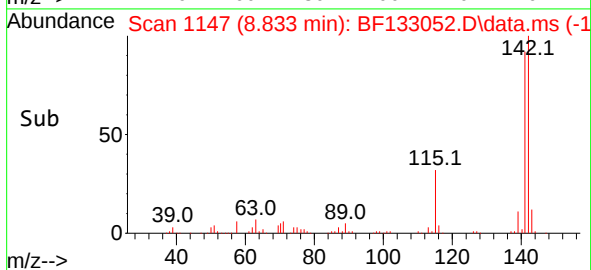
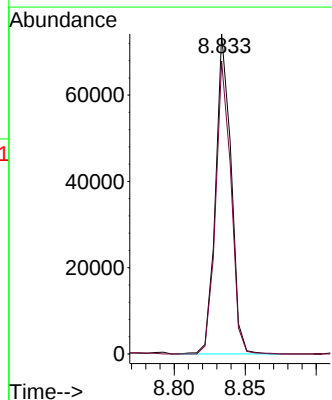
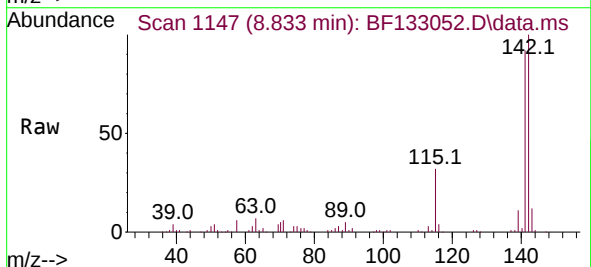
Manual Integrations
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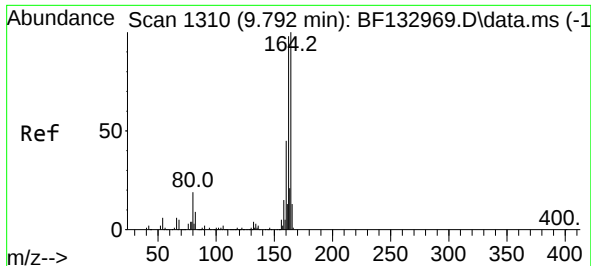
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#38
1-Methylnaphthalene
Concen: 2.307 ng
RT: 8.833 min Scan# 1147
Delta R.T. -0.006 min
Lab File: BF133052.D
Acq: 26 Apr 2023 04:08

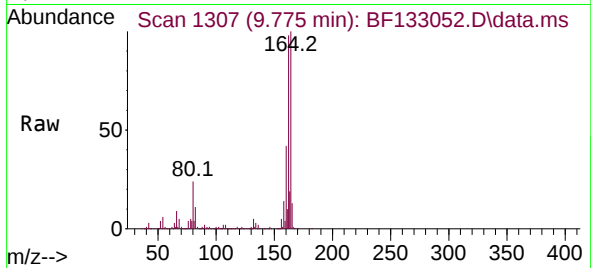
Tgt Ion:142 Resp: 56074
Ion Ratio Lower Upper
142 100
141 91.5 73.1 109.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.775 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133052.D
Acq: 26 Apr 2023 04:08

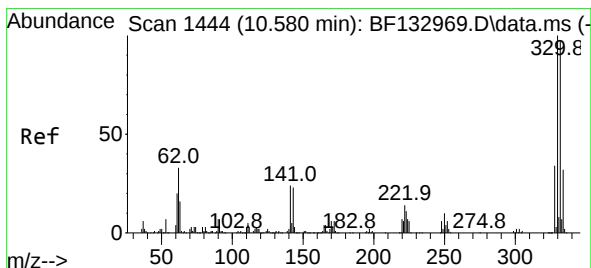
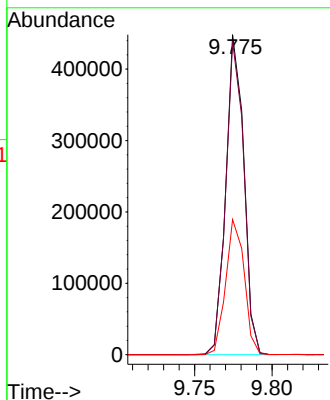
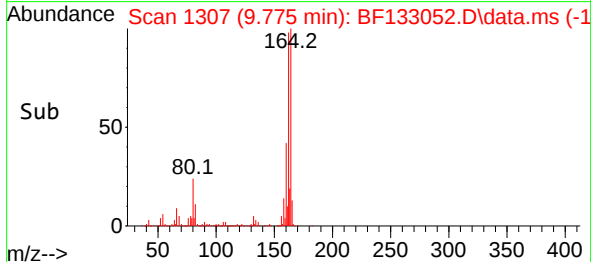
Instrument :
BNA_F
ClientSampleId :
SB-27-0-2-20230411



Tgt Ion:164 Resp: 36240
Ion Ratio Lower Upper
164 100
162 97.8 78.7 118.1
160 42.2 35.8 53.6

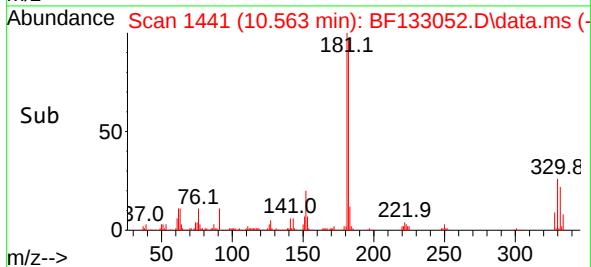
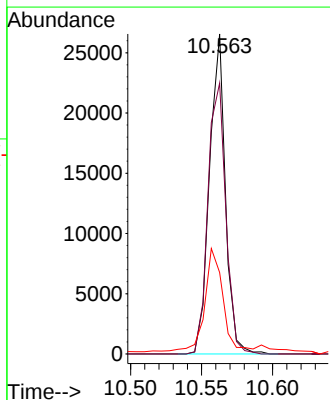
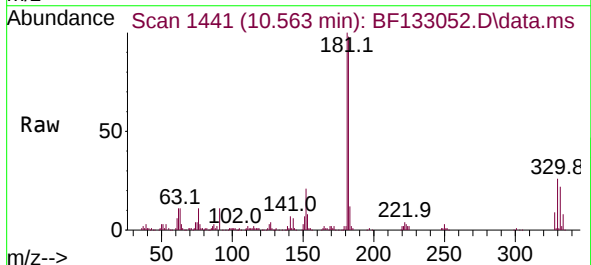
Manual Integrations
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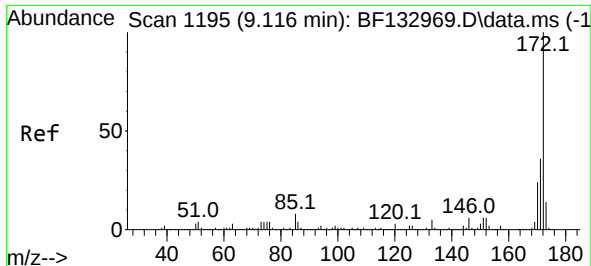
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#42
2,4,6-Tribromophenol
Concen: 5.670 ng
RT: 10.563 min Scan# 1441
Delta R.T. -0.006 min
Lab File: BF133052.D
Acq: 26 Apr 2023 04:08

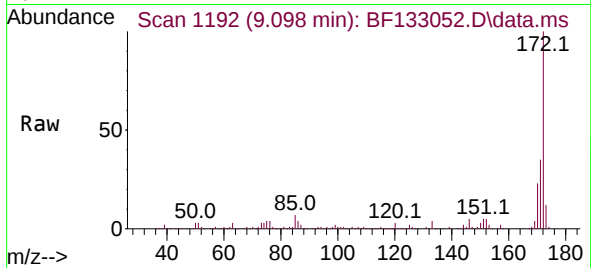
Tgt Ion:330 Resp: 20666
Ion Ratio Lower Upper
330 100
332 95.0 77.1 115.7
141 36.6 25.8 38.8





#45
2-Fluorobiphenyl
Concen: 7.039 ng
RT: 9.098 min Scan# 1195
Delta R.T. -0.012 min
Lab File: BF133052.D
Acq: 26 Apr 2023 04:08

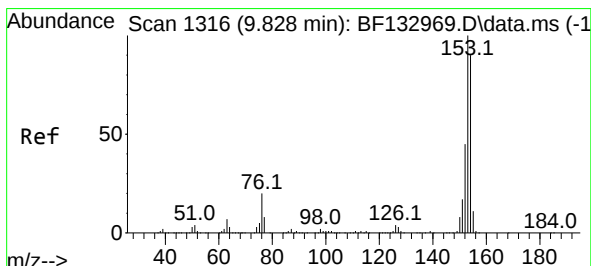
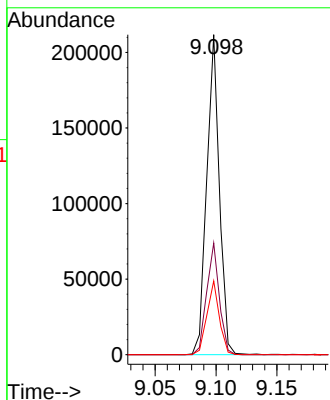
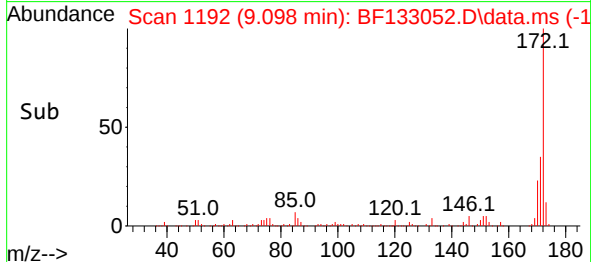
Instrument :
BNA_F
ClientSampleId :
SB-27-0-2-20230411



Tgt Ion:172 Resp: 152480
Ion Ratio Lower Upper
172 100
171 34.9 28.8 43.2
170 23.1 19.4 29.2

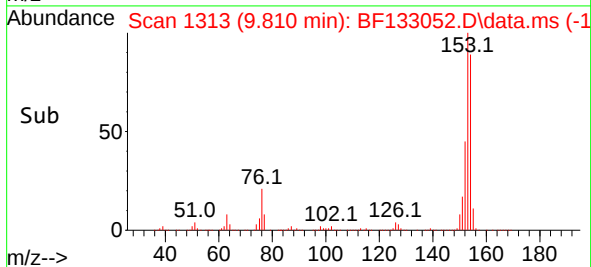
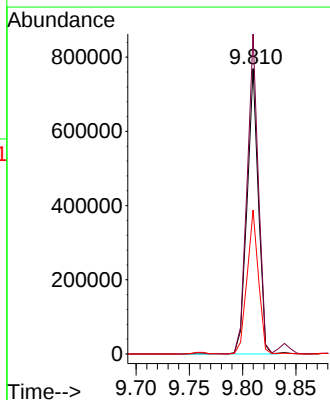
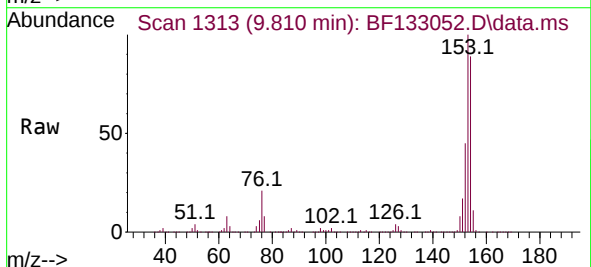
Manual Integrations
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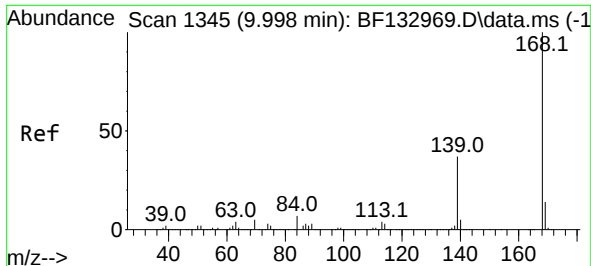
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#52
Acenaphthene
Concen: 25.368 ng
RT: 9.810 min Scan# 1313
Delta R.T. -0.006 min
Lab File: BF133052.D
Acq: 26 Apr 2023 04:08

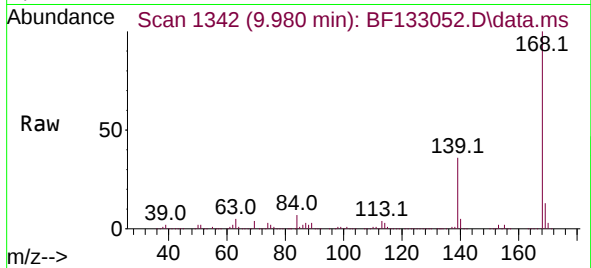
Tgt Ion:154 Resp: 571020
Ion Ratio Lower Upper
154 100
153 112.1 89.0 133.6
152 50.4 40.4 60.6





#55
Dibenzenofuran
Concen: 11.221 ng
RT: 9.980 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133052.D
Acq: 26 Apr 2023 04:08

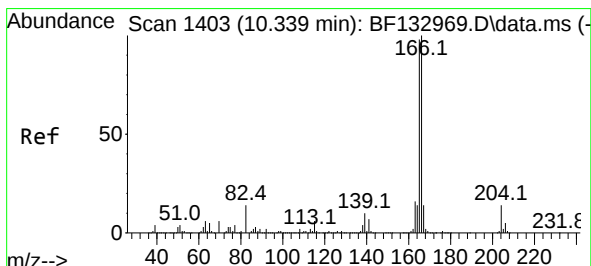
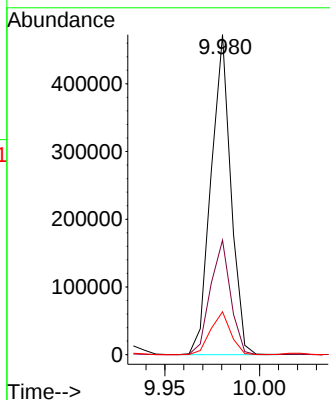
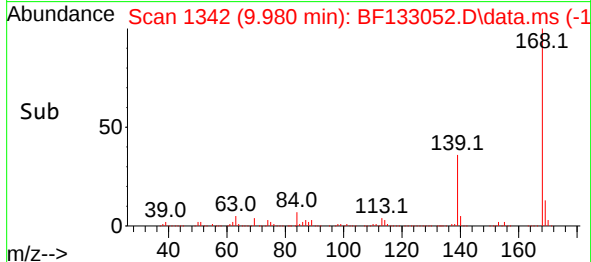
Instrument :
BNA_F
ClientSampleId :
SB-27-0-2-20230411



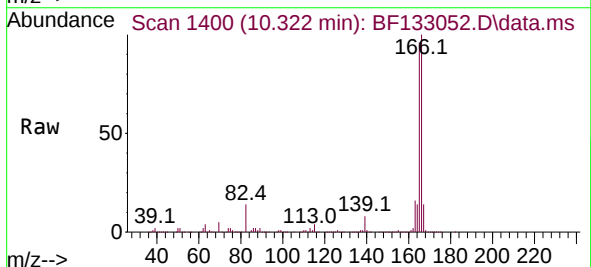
Tgt Ion:168 Resp: 34453
Ion Ratio Lower Upper
168 100
139 35.8 29.8 44.8
169 13.4 10.8 16.2

Manual Integrations
APPROVED

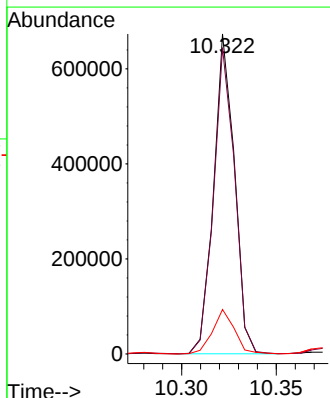
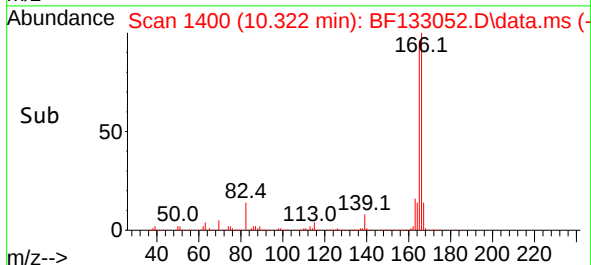
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023

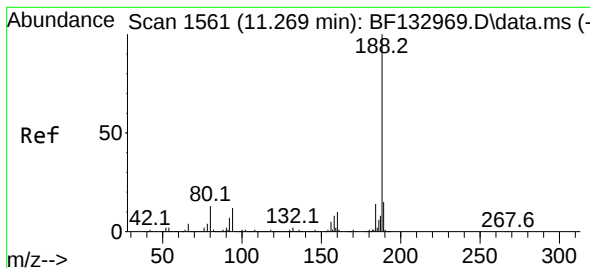


#58
Fluorene
Concen: 22.859 ng
RT: 10.322 min Scan# 1400
Delta R.T. -0.006 min
Lab File: BF133052.D
Acq: 26 Apr 2023 04:08



Tgt Ion:166 Resp: 514225
Ion Ratio Lower Upper
166 100
165 95.7 78.6 117.8
167 13.9 11.0 16.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.263 min Scan# 1561

Delta R.T. 0.000 min

Lab File: BF133052.D

Acq: 26 Apr 2023 04:08

Instrument :

BNA_F

ClientSampleId :

SB-27-0-2-20230411

Tgt Ion:188 Resp: 54842

Ion Ratio Lower Upper

188 100

94 11.3 9.7 14.5

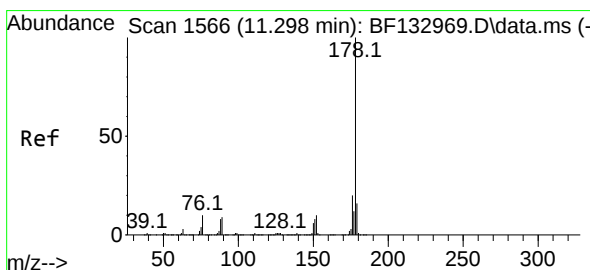
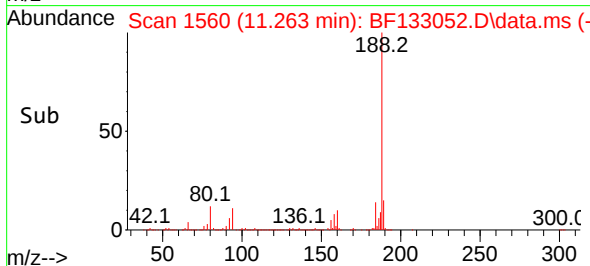
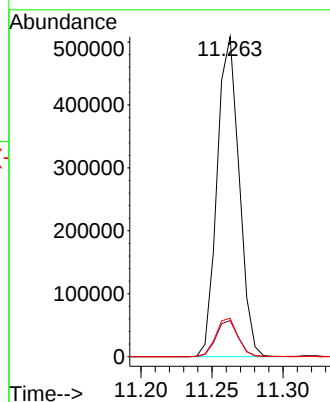
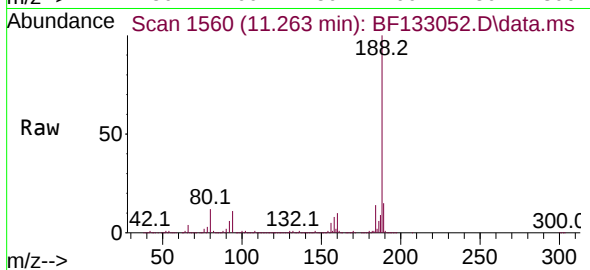
80 12.0 10.4 15.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/26/2023

Supervised By :Jagrut Upadhyay 04/26/2023



#71

Phenanthrene

Concen: 124.051 ng

RT: 11.292 min Scan# 1565

Delta R.T. 0.006 min

Lab File: BF133052.D

Acq: 26 Apr 2023 04:08

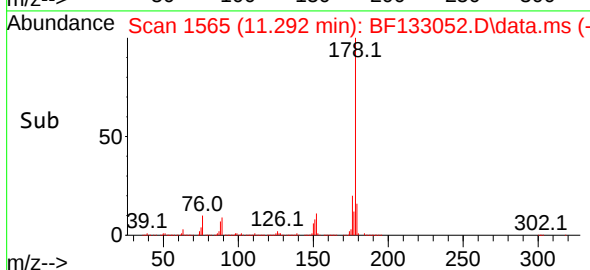
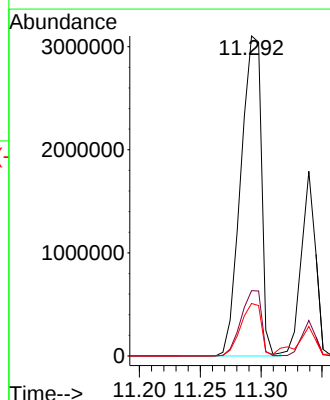
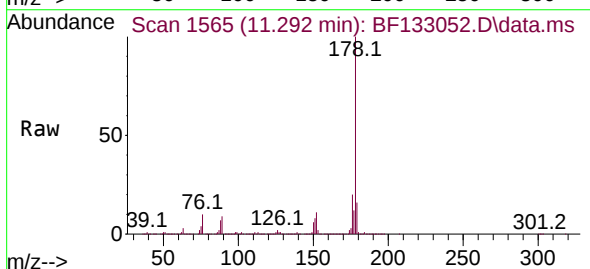
Tgt Ion:178 Resp: 3656530

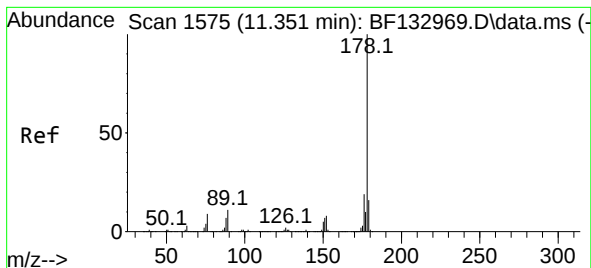
Ion Ratio Lower Upper

178 100

176 20.4 15.9 23.9

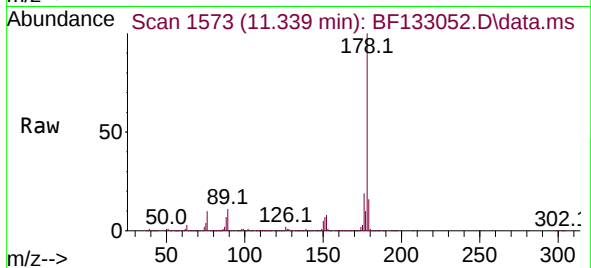
179 16.4 12.5 18.7





#72
 Anthracene
 Concen: 47.677 ng
 RT: 11.339 min Scan# 1573
 Delta R.T. 0.000 min
 Lab File: BF133052.D
 Acq: 26 Apr 2023 04:08

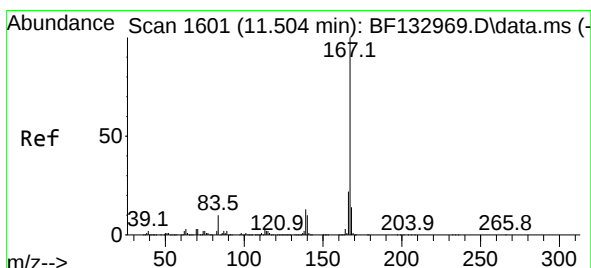
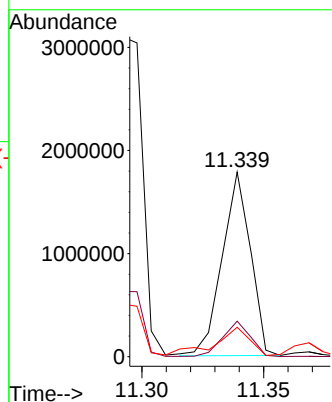
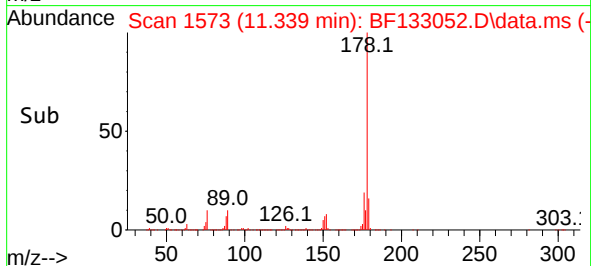
Instrument :
 BNA_F
 ClientSampleId :
 SB-27-0-2-20230411



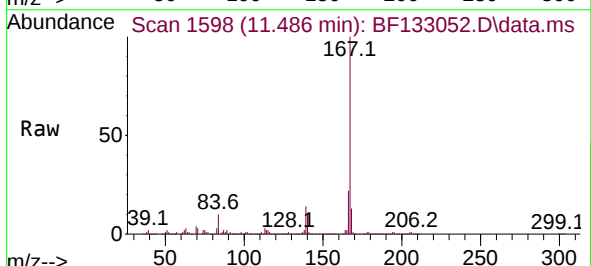
Tgt Ion:178 Resp: 143819
 Ion Ratio Lower Upper
 178 100
 176 19.3 15.4 23.0
 179 15.9 12.4 18.6

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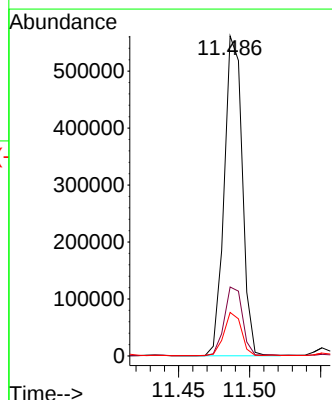
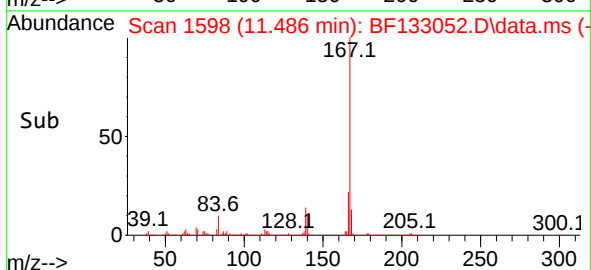
Reviewed By :Christian Giraldo 04/26/2023
 Supervised By :Jagrut Upadhyay 04/26/2023

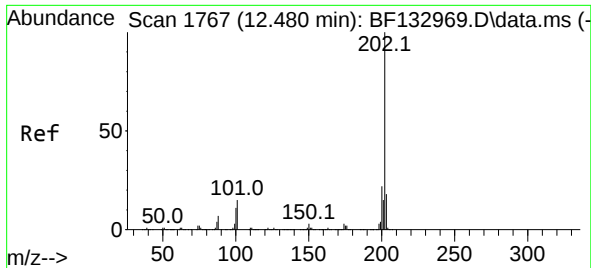


#73
 Carbazole
 Concen: 18.448 ng
 RT: 11.486 min Scan# 1598
 Delta R.T. -0.006 min
 Lab File: BF133052.D
 Acq: 26 Apr 2023 04:08



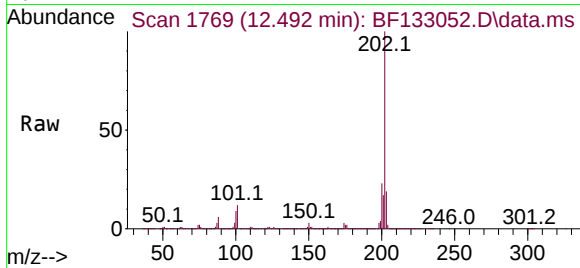
Tgt Ion:167 Resp: 495523
 Ion Ratio Lower Upper
 167 100
 166 21.6 17.4 26.0
 139 13.6 10.6 16.0





#75
Fluoranthene
Concen: 205.615 ng
RT: 12.492 min Scan# 1769
Delta R.T. 0.018 min
Lab File: BF133052.D
Acq: 26 Apr 2023 04:08

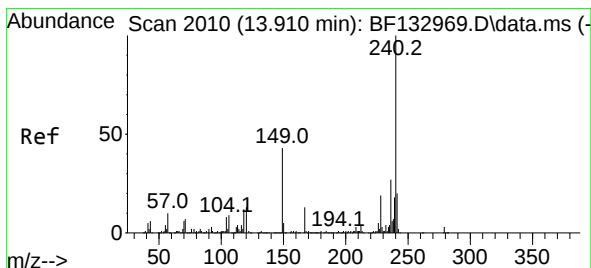
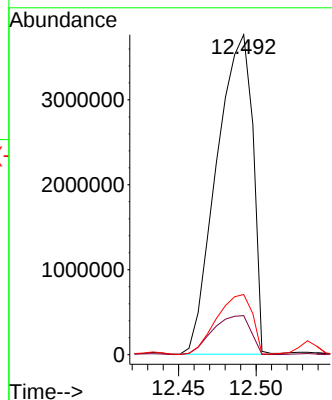
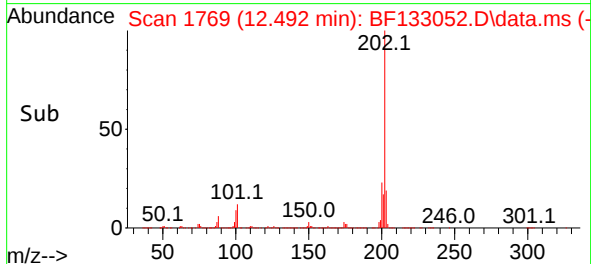
Instrument :
BNA_F
ClientSampleId :
SB-27-0-2-20230411



Tgt Ion:202 Resp: 608259
Ion Ratio Lower Upper
202 100
101 12.2 0.0 35.3
203 18.8 0.0 38.1

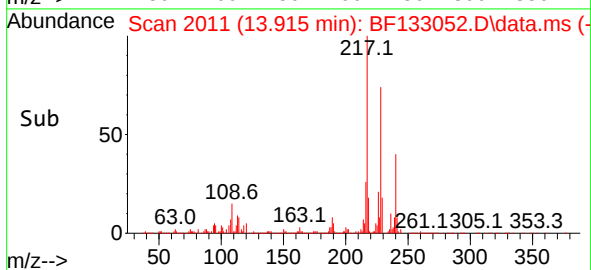
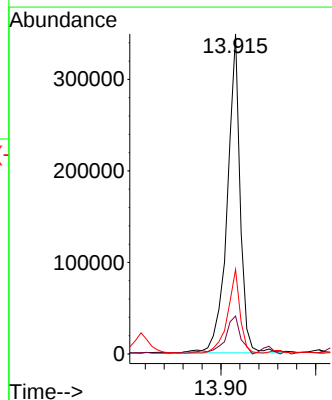
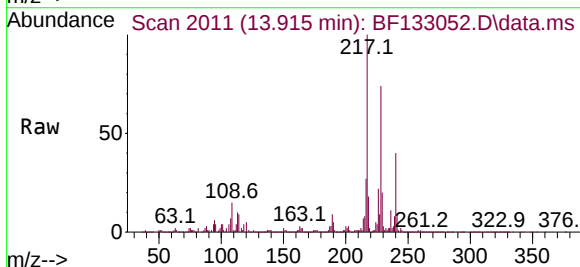
Manual Integrations
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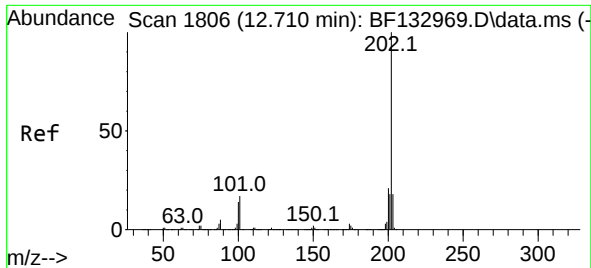
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.915 min Scan# 2011
Delta R.T. 0.018 min
Lab File: BF133052.D
Acq: 26 Apr 2023 04:08

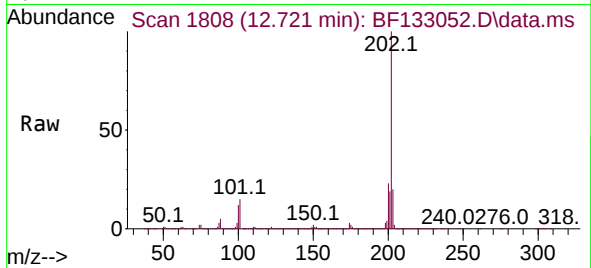
Tgt Ion:240 Resp: 330836
Ion Ratio Lower Upper
240 100
120 11.9 10.5 15.7
236 26.4 21.5 32.3





#78
Pyrene
Concen: 190.897 ng
RT: 12.721 min Scan# 1806
Delta R.T. 0.024 min
Lab File: BF133052.D
Acq: 26 Apr 2023 04:08

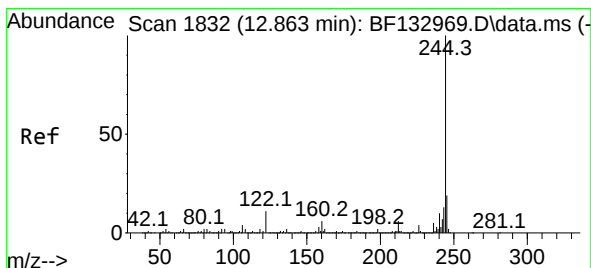
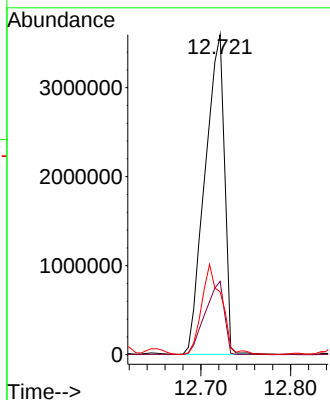
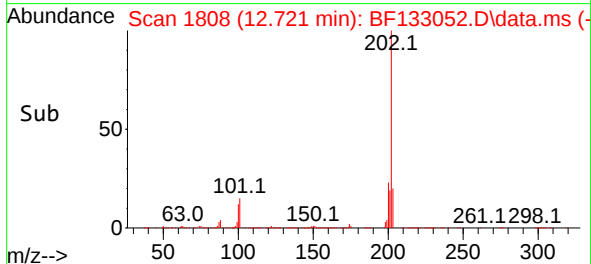
Instrument :
BNA_F
ClientSampleId :
SB-27-0-2-20230411



Tgt Ion:202 Resp: 541389
Ion Ratio Lower Upper
202 100
200 22.9 17.1 25.7
203 19.7 14.1 21.1

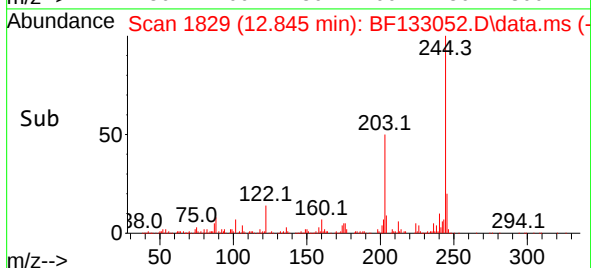
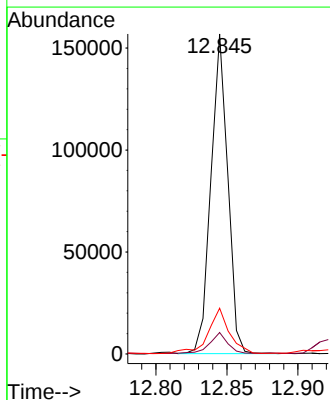
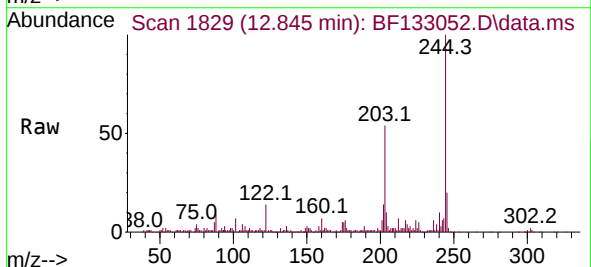
Manual Integrations
APPROVED

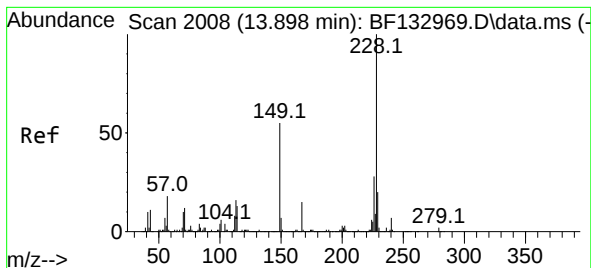
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#79
Terphenyl-d14
Concen: 6.710 ng
RT: 12.845 min Scan# 1829
Delta R.T. -0.006 min
Lab File: BF133052.D
Acq: 26 Apr 2023 04:08

Tgt Ion:244 Resp: 128722
Ion Ratio Lower Upper
244 100
212 6.7 5.1 7.7
122 14.3 8.6 13.0#





#81

Benzo(a)anthracene

Concen: 190.001 ng

RT: 13.904 min Scan# 20

Delta R.T. 0.018 min

Lab File: BF133052.D

Acq: 26 Apr 2023 04:08

Instrument :

BNA_F

ClientSampleId :

SB-27-0-2-20230411

Tgt Ion:228 Resp: 4322620

Ion Ratio Lower Upper

228 100

226 28.9 22.2 33.4

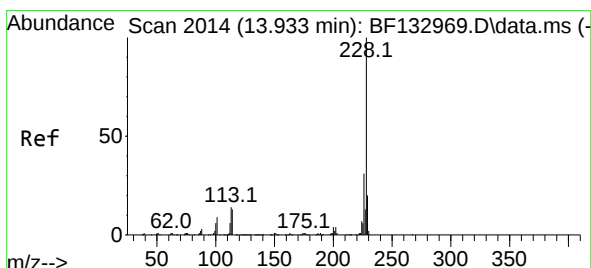
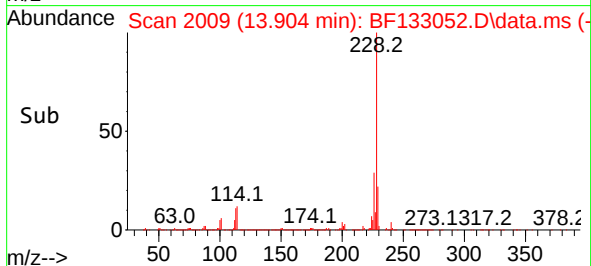
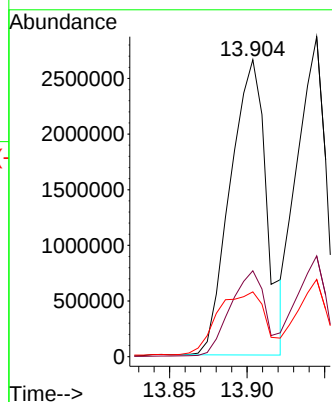
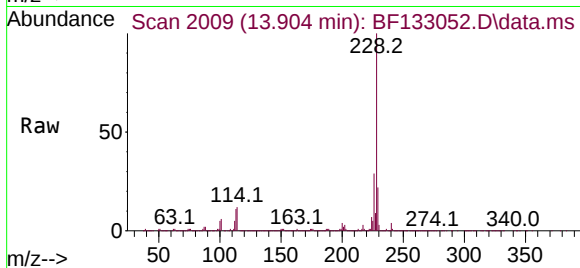
229 21.8 16.0 24.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/26/2023

Supervised By :Jagrut Upadhyay 04/26/2023



#83

Chrysene

Concen: 158.529 ng m

RT: 13.945 min Scan# 2016

Delta R.T. 0.018 min

Lab File: BF133052.D

Acq: 26 Apr 2023 04:08

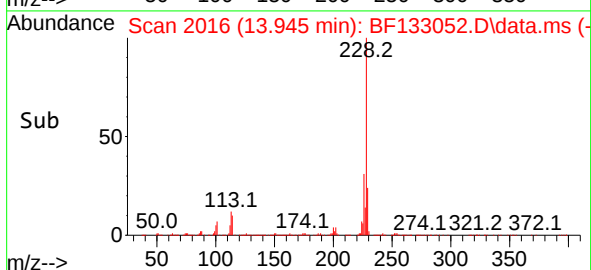
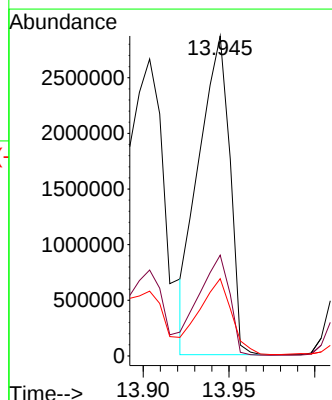
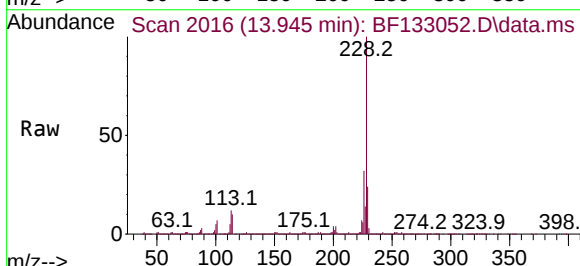
Tgt Ion:228 Resp: 3605740

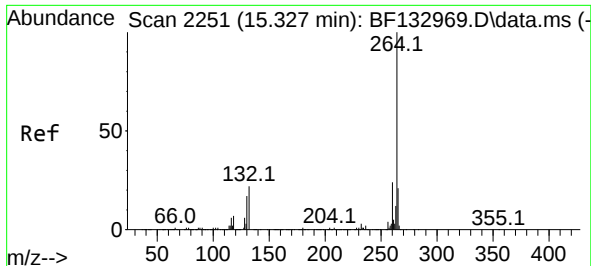
Ion Ratio Lower Upper

228 100

226 31.5 24.7 37.1

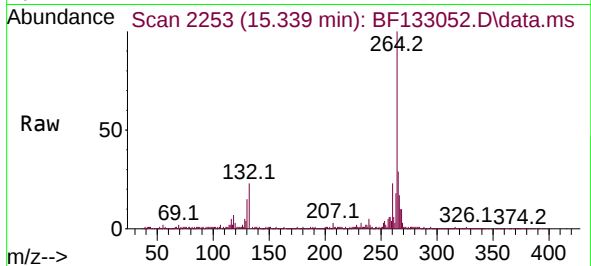
229 24.1 16.1 24.1#





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.339 min Scan# 21
Delta R.T. 0.024 min
Lab File: BF133052.D
Acq: 26 Apr 2023 04:08

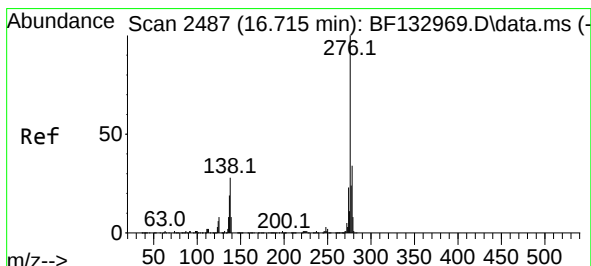
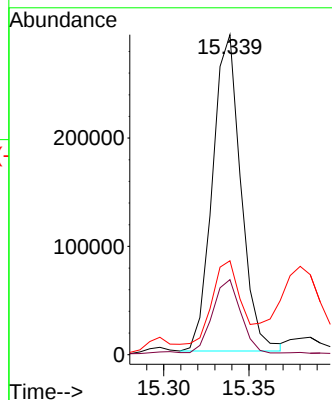
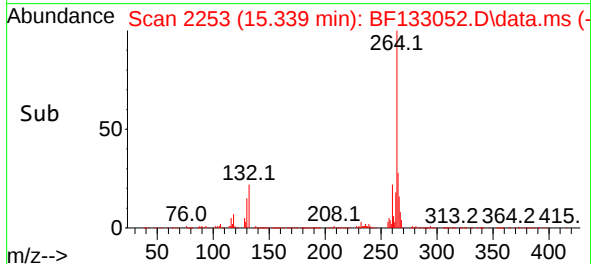
Instrument :
BNA_F
ClientSampleId :
SB-27-0-2-20230411



Tgt Ion:264 Resp: 33917
Ion Ratio Lower Upper
264 100
260 23.5 18.8 28.2
265 29.4 17.0 25.4

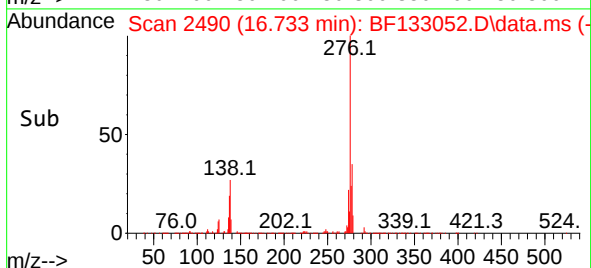
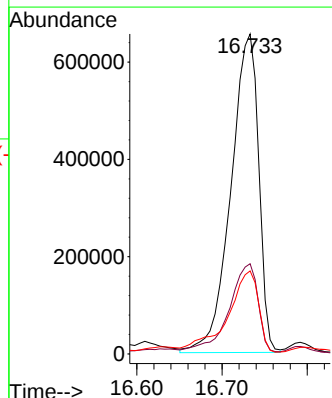
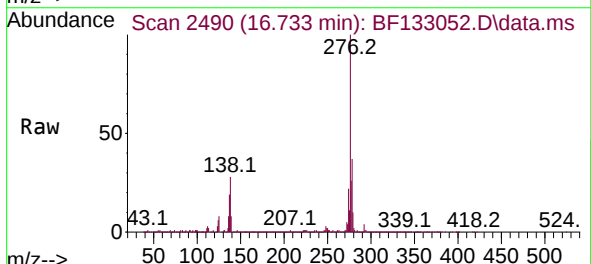
Manual Integrations
APPROVED

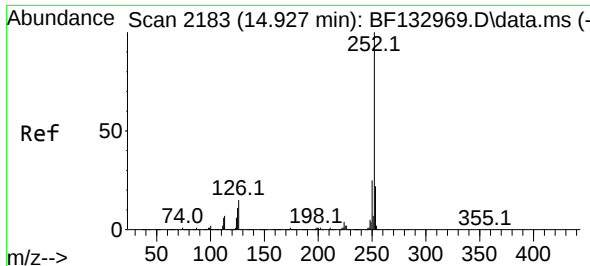
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 76.910 ng
RT: 16.733 min Scan# 2490
Delta R.T. 0.029 min
Lab File: BF133052.D
Acq: 26 Apr 2023 04:08

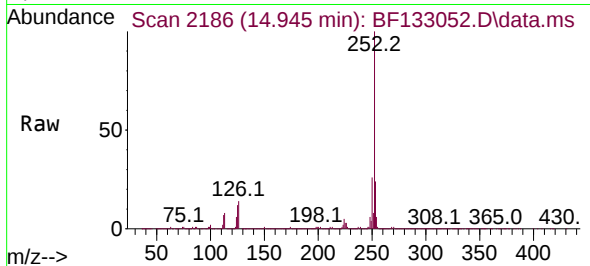
Tgt Ion:276 Resp: 1483804
Ion Ratio Lower Upper
276 100
138 29.4 25.5 38.3
277 28.4 20.4 30.6





#88
Benzo(b)fluoranthene
Concen: 214.506 ng m
RT: 14.945 min Scan# 2183
Delta R.T. 0.029 min
Lab File: BF133052.D
Acq: 26 Apr 2023 04:08

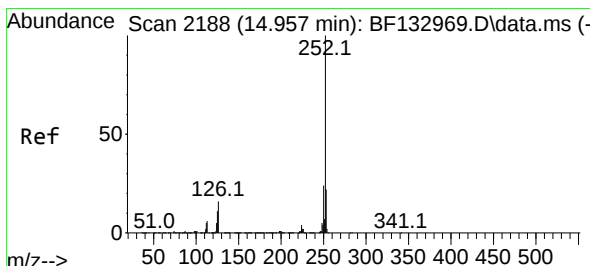
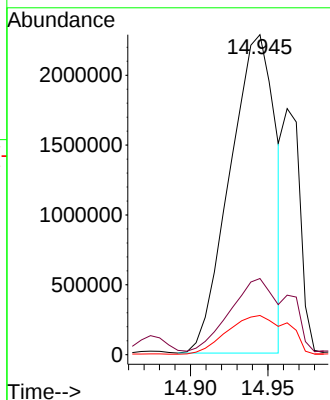
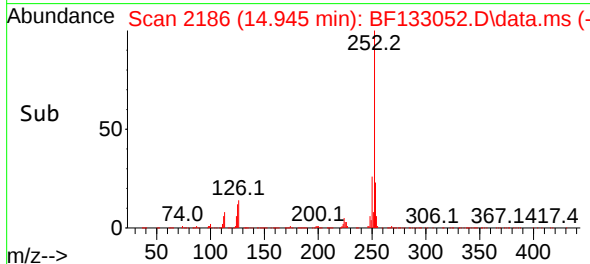
Instrument :
BNA_F
ClientSampleId :
SB-27-0-2-20230411



Tgt Ion:252 Resp: 4628540
Ion Ratio Lower Upper
252 100
253 23.8 17.6 26.4
125 12.3 8.9 13.3

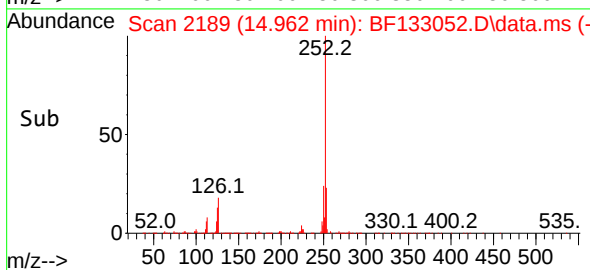
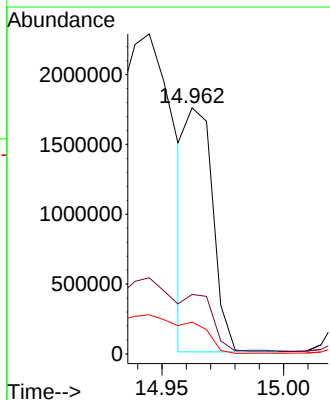
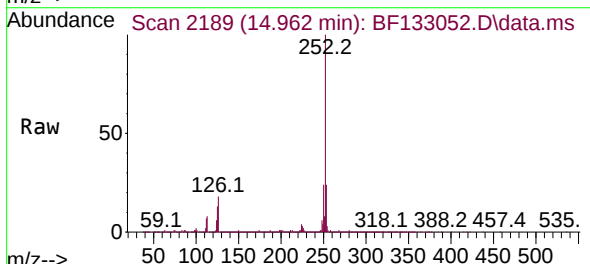
Manual Integrations
APPROVED

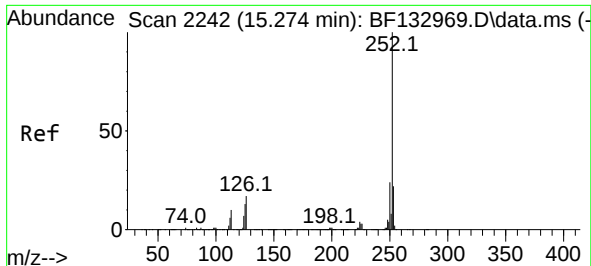
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#89
Benzo(k)fluoranthene
Concen: 61.890 ng m
RT: 14.962 min Scan# 2189
Delta R.T. 0.024 min
Lab File: BF133052.D
Acq: 26 Apr 2023 04:08

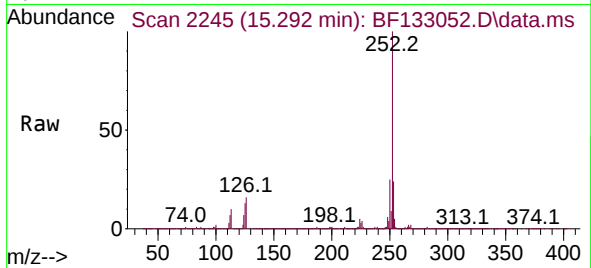
Tgt Ion:252 Resp: 1323797
Ion Ratio Lower Upper
252 100
253 24.2 17.7 26.5
125 12.9 9.0 13.4





#90
Benzo(a)pyrene
Concen: 146.264 ng
RT: 15.292 min Scan# 21
Delta R.T. 0.029 min
Lab File: BF133052.D
Acq: 26 Apr 2023 04:08

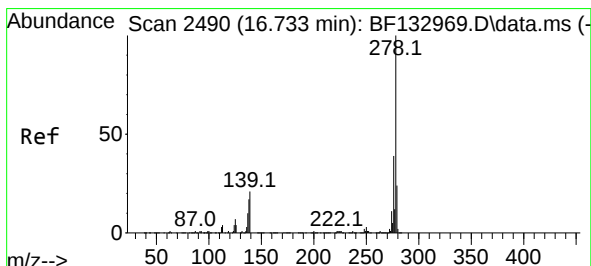
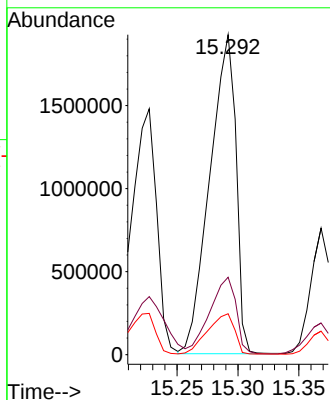
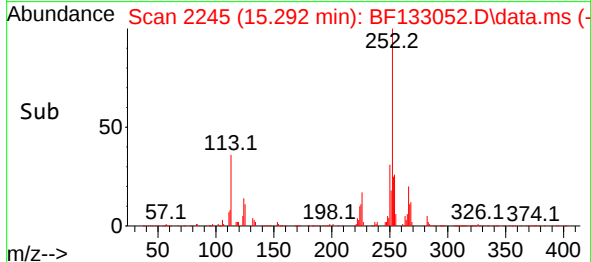
Instrument :
BNA_F
ClientSampleId :
SB-27-0-2-20230411



Tgt Ion:252 Resp: 2872639
Ion Ratio Lower Upper
252 100
253 24.2 17.7 26.5
125 12.8 10.5 15.7

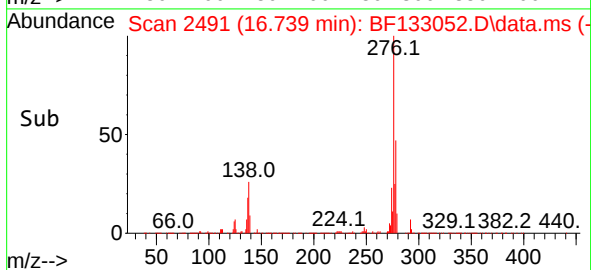
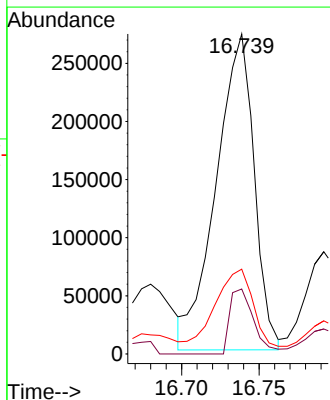
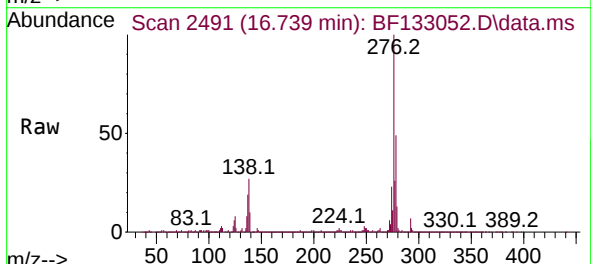
Manual Integrations
APPROVED

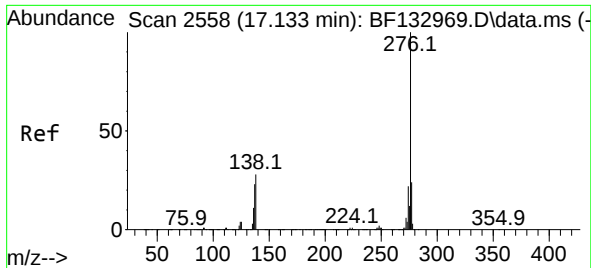
Reviewed By :Christian Giraldo 04/26/2023
Supervised By :Jagrut Upadhyay 04/26/2023



#91
Dibenzo(a,h)anthracene
Concen: 28.766 ng
RT: 16.739 min Scan# 2491
Delta R.T. 0.018 min
Lab File: BF133052.D
Acq: 26 Apr 2023 04:08

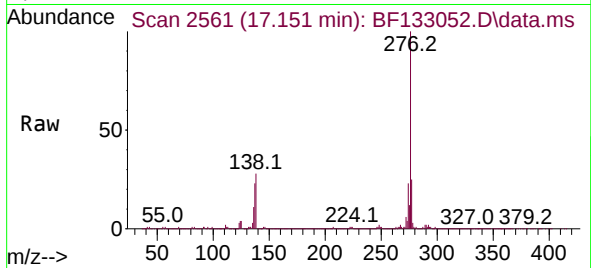
Tgt Ion:278 Resp: 462874
Ion Ratio Lower Upper
278 100
139 20.3 16.6 24.8
279 26.5 18.8 28.2





#92
 Benzo(g,h,i)perylene
 Concen: 81.156 ng
 RT: 17.151 min Scan# 21
 Delta R.T. 0.029 min
 Lab File: BF133052.D
 Acq: 26 Apr 2023 04:08

Instrument :
 BNA_F
 ClientSampleId :
 SB-27-0-2-20230411



Tgt Ion:276 Resp: 128924
 Ion Ratio Lower Upper
 276 100
 277 25.0 19.4 29.0
 138 27.8 22.7 34.1

Manual Integrations
 APPROVED

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

