

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042623\
 Data File : BF133084.D
 Acq On : 27 Apr 2023 01:06
 Operator : CG\JU
 Sample : 02423-15
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SPE-2WC-23-04-18

Quant Time: Apr 27 04:03:35 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 27 01:56:03 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Christian Giraldo 04/27/2023
 Supervised By : Jagrut Upadhyay 04/27/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.734	152	177031	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	703952	20.000	ng	0.00
39) Acenaphthene-d10	9.769	164	345211	20.000	ng	0.00
64) Phenanthrene-d10	11.251	188	522270	20.000	ng	0.00
76) Chrysene-d12	13.898	240	282358	20.000	ng	# 0.00
86) Perylene-d12	15.345	264	251023	20.000	ng	# 0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.345	112	1169089	99.759	ng	0.00
7) Phenol-d6	6.375	99	1402569	96.423	ng	0.00
23) Nitrobenzene-d5	7.298	82	864318	66.273	ng	0.00
42) 2,4,6-Tribromophenol	10.557	330	297121	85.582	ng	0.00
45) 2-Fluorobiphenyl	9.098	172	1345421	65.203	ng	0.00
79) Terphenyl-d14	12.845	244	947398	57.868	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.039	128	270114	7.675	ng	99
37) 2-Methylnaphthalene	8.728	142	110593	4.596	ng	100
38) 1-Methylnaphthalene	8.828	142	97313	4.323	ng	99
49) Acenaphthylene	9.628	152	102498	3.202	ng	97
52) Acenaphthene	9.798	154	118154	5.511	ng	99
55) Dibenzofuran	9.975	168	163635	5.595	ng	96
58) Fluorene	10.316	166	187147	8.734	ng	98
71) Phenanthrene	11.280	178	2036818	72.561	ng	99
72) Anthracene	11.327	178	392770	13.673	ng	98
73) Carbazole	11.480	167	206505	8.073	ng	98
75) Fluoranthene	12.474	202	2070107	73.481	ng	96
78) Pyrene	12.698	202	1862835	76.962	ng	98
81) Benzo(a)anthracene	13.892	228	862487	44.419	ng	97
83) Chrysene	13.927	228	859536	44.278	ng	97
87) Indeno(1,2,3-cd)pyrene	16.733	276	331326	23.204	ng	95
88) Benzo(b)fluoranthene	14.933	252	962335m	60.260	ng	
89) Benzo(k)fluoranthene	14.957	252	211610m	13.367	ng	
90) Benzo(a)pyrene	15.280	252	529201	36.407	ng	# 92
91) Dibenzo(a,h)anthracene	16.739	278	91369	7.672	ng	# 81
92) Benzo(g,h,i)perylene	17.151	276	301036	25.604	ng	100

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

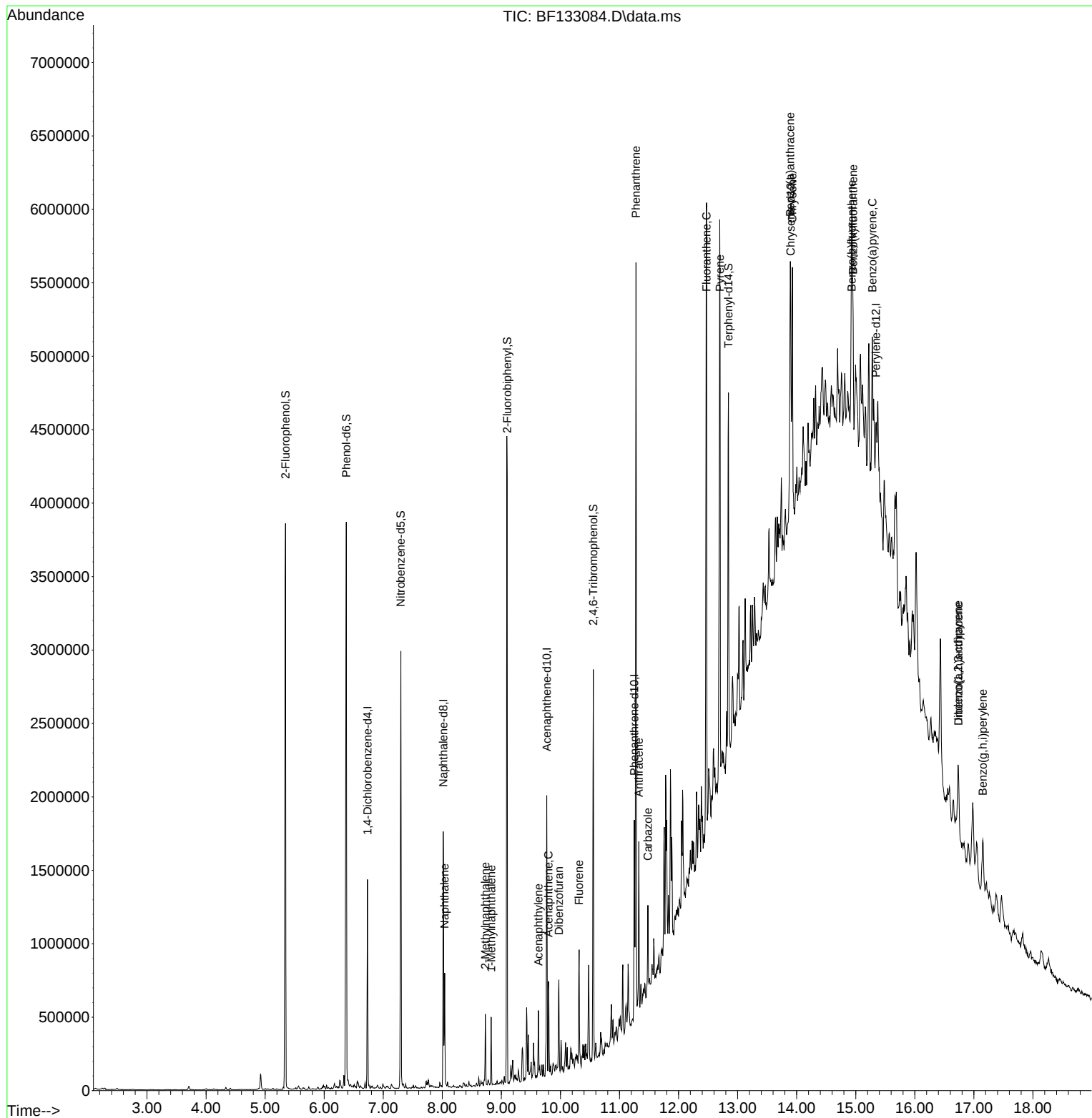
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF042623\
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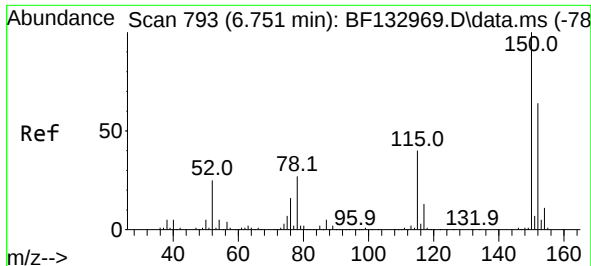
Instrument :
BNA_F
ClientSampleId :
SPE-2WC-23-04-18

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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
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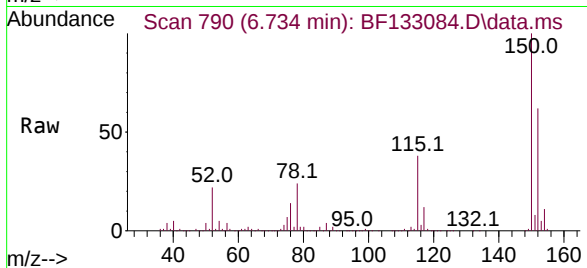
Reviewed By : Christian Giraldo 04/27/2023
Supervised By : Jagrut Upadhyay 04/27/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.734 min Scan# 793
Delta R.T. -0.005 min
Lab File: BF133084.D
Acq: 27 Apr 2023 01:06

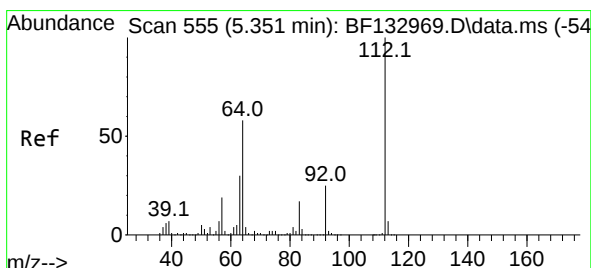
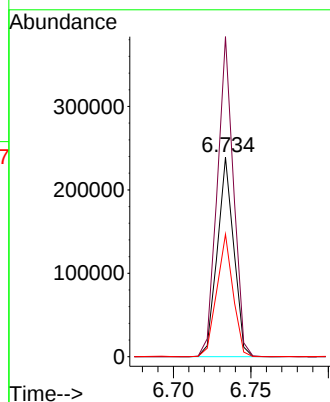
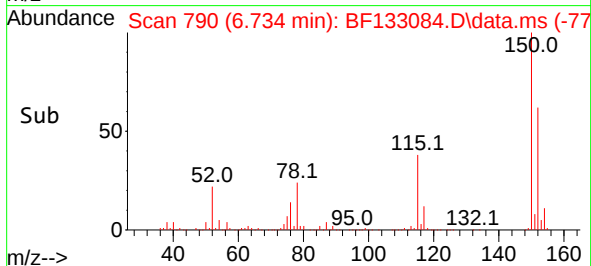
Instrument :
BNA_F
ClientSampleId :
SPE-2WC-23-04-18



Tgt Ion:152 Resp: 17703
Ion Ratio Lower Upper
152 100
150 160.3 124.8 187.2
115 61.3 49.9 74.9

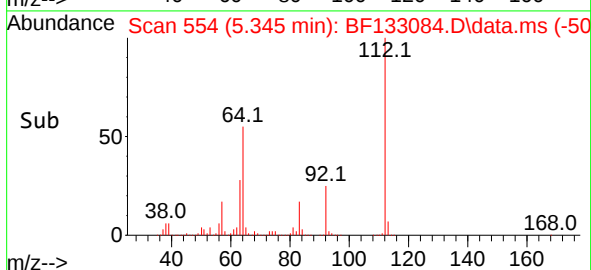
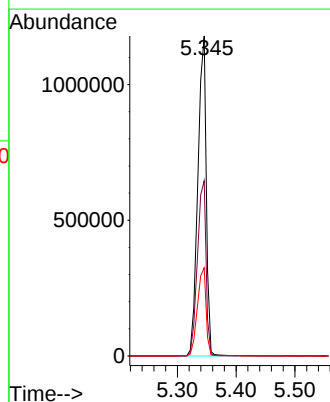
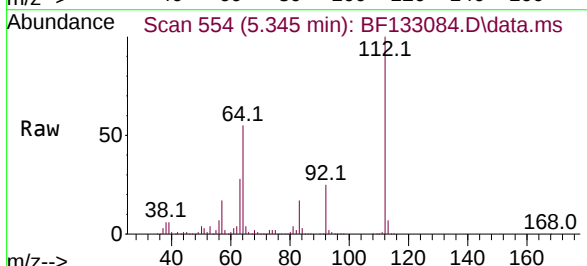
Manual Integrations
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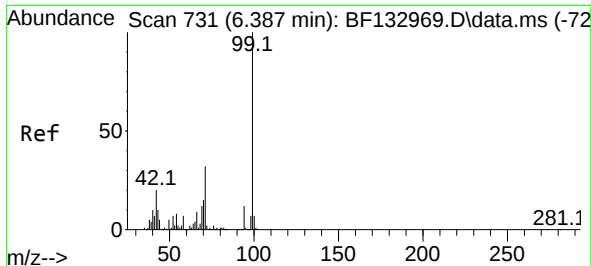
Reviewed By :Christian Giraldo 04/27/2023
Supervised By :Jagrut Upadhyay 04/27/2023



#5
2-Fluorophenol
Concen: 99.759 ng
RT: 5.345 min Scan# 554
Delta R.T. 0.006 min
Lab File: BF133084.D
Acq: 27 Apr 2023 01:06

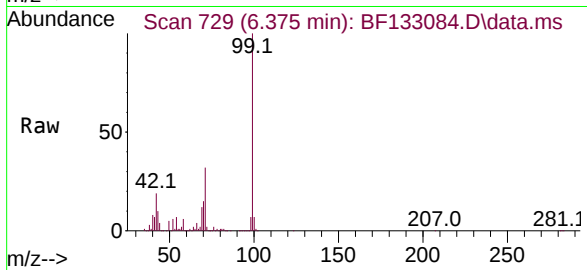
Tgt Ion:112 Resp: 1169089
Ion Ratio Lower Upper
112 100
64 54.8 46.8 70.2
63 27.6 23.8 35.8





#7
Phenol-d6
Concen: 96.423 ng
RT: 6.375 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF133084.D
Acq: 27 Apr 2023 01:06

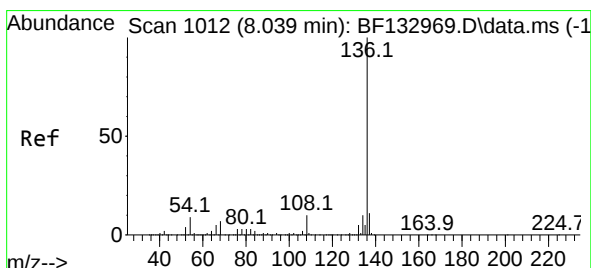
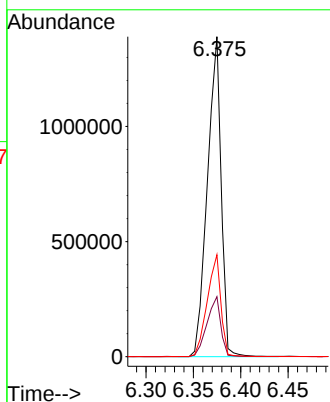
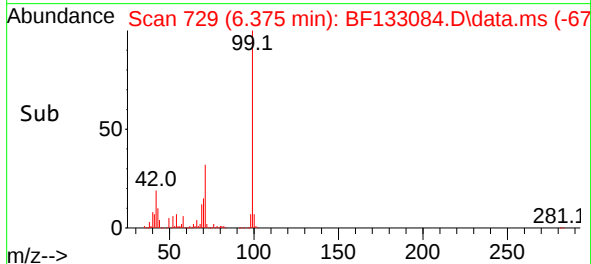
Instrument :
BNA_F
ClientSampleId :
SPE-2WC-23-04-18



Tgt Ion: 99 Resp: 1402569
Ion Ratio Lower Upper
99 100
42 18.8 16.3 24.5
71 31.9 25.6 38.4

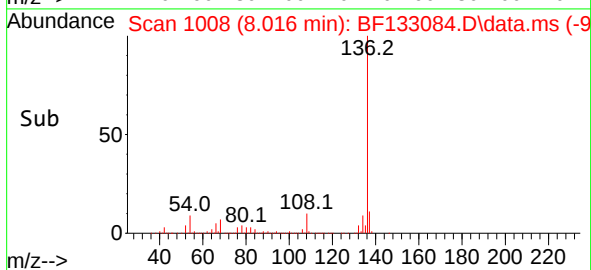
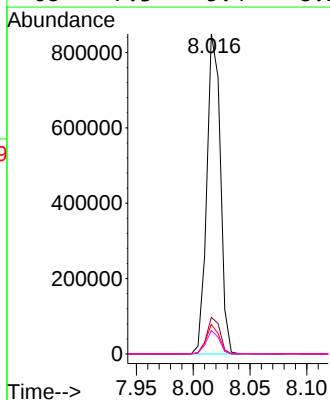
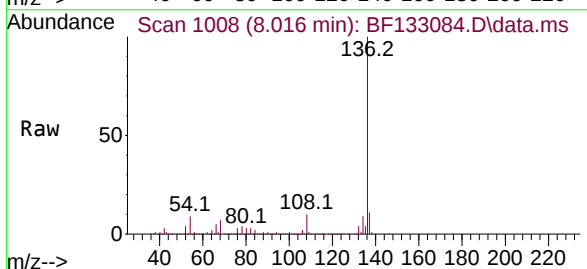
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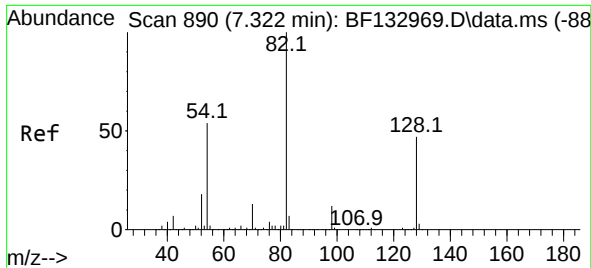
Reviewed By :Christian Giraldo 04/27/2023
Supervised By :Jagrut Upadhyay 04/27/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF133084.D
Acq: 27 Apr 2023 01:06

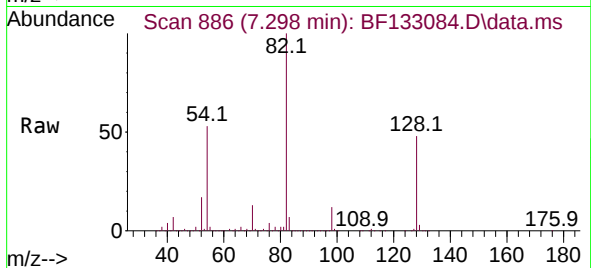
Tgt Ion:136 Resp: 703952
Ion Ratio Lower Upper
136 100
137 11.5 8.6 13.0
54 9.3 7.0 10.4
68 7.3 5.4 8.2





#23
Nitrobenzene-d5
Concen: 66.273 ng
RT: 7.298 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF133084.D
Acq: 27 Apr 2023 01:06

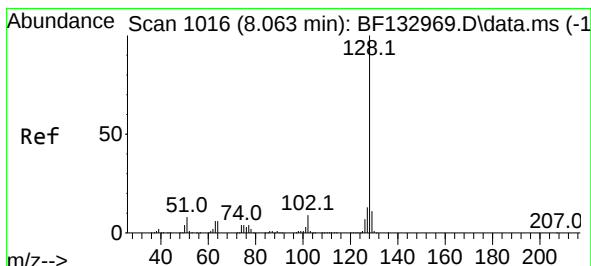
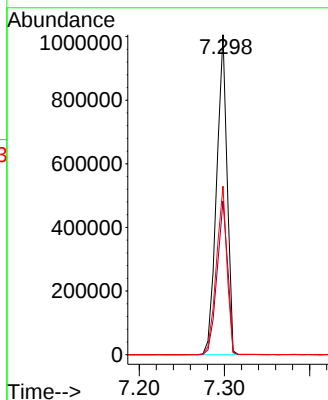
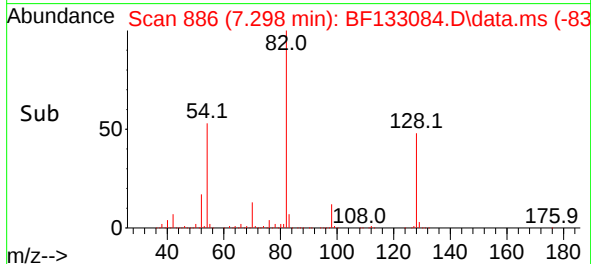
Instrument :
BNA_F
ClientSampleId :
SPE-2WC-23-04-18



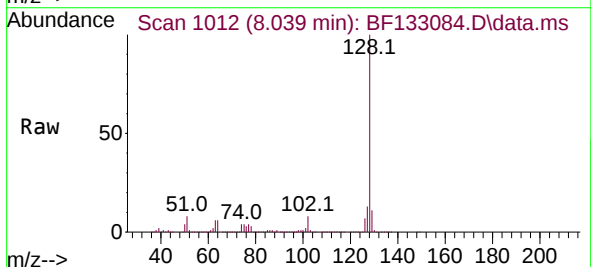
Tgt Ion: 82 Resp: 864318
Ion Ratio Lower Upper
82 100
128 48.0 37.7 56.5
54 52.6 43.0 64.4

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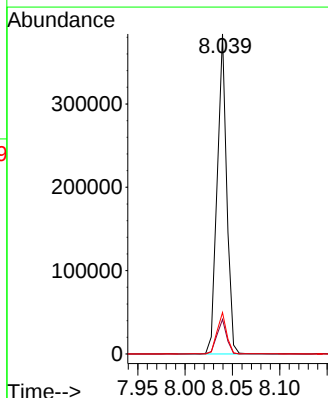
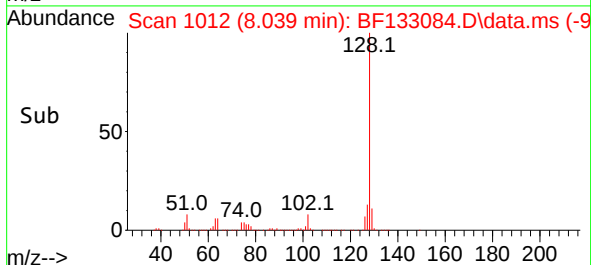
Reviewed By :Christian Giraldo 04/27/2023
Supervised By :Jagrut Upadhyay 04/27/2023

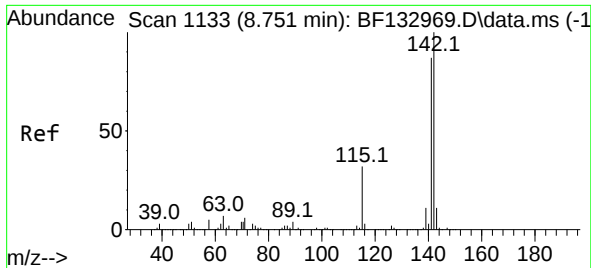


#31
Naphthalene
Concen: 7.675 ng
RT: 8.039 min Scan# 1012
Delta R.T. -0.006 min
Lab File: BF133084.D
Acq: 27 Apr 2023 01:06



Tgt Ion:128 Resp: 270114
Ion Ratio Lower Upper
128 100
129 10.8 8.8 13.2
127 13.0 10.7 16.1





#37

2-Methylnaphthalene

Concen: 4.596 ng

RT: 8.728 min Scan# 11059

Delta R.T. -0.006 min

Lab File: BF133084.D

Acq: 27 Apr 2023 01:06

Instrument :

BNA_F

ClientSampleId :

SPE-2WC-23-04-18

Tgt Ion:142 Resp: 11059

Ion Ratio Lower Upper

142 100

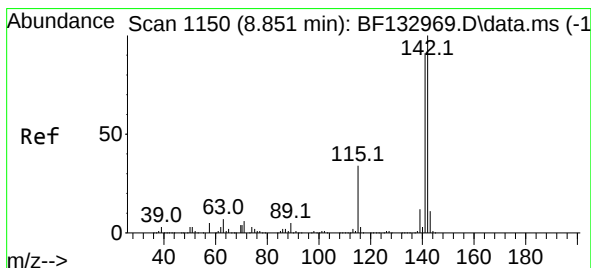
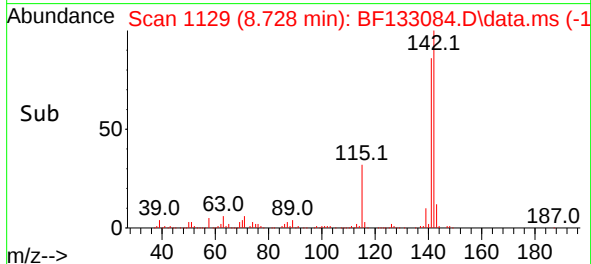
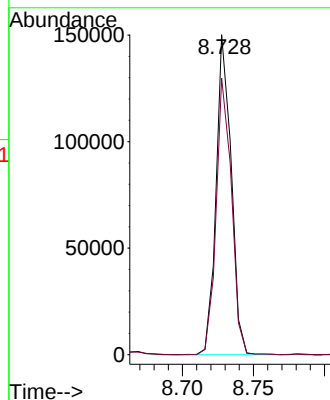
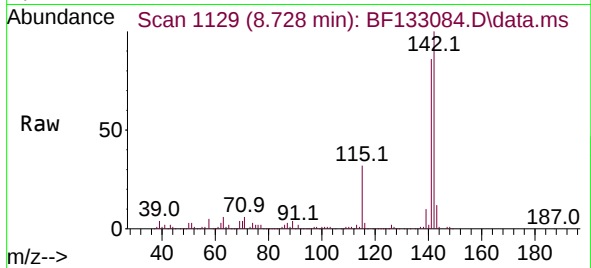
141 86.5 69.4 104.0

Manual Integrations

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Reviewed By :Christian Giraldo 04/27/2023

Supervised By :Jagrut Upadhyay 04/27/2023



#38

1-Methylnaphthalene

Concen: 4.323 ng

RT: 8.828 min Scan# 1146

Delta R.T. -0.006 min

Lab File: BF133084.D

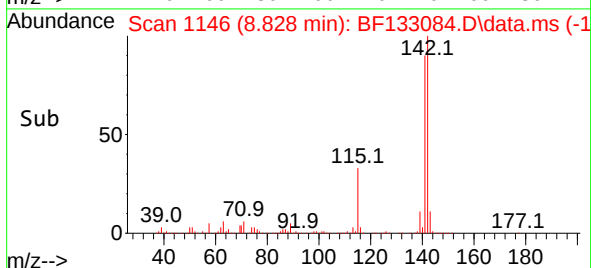
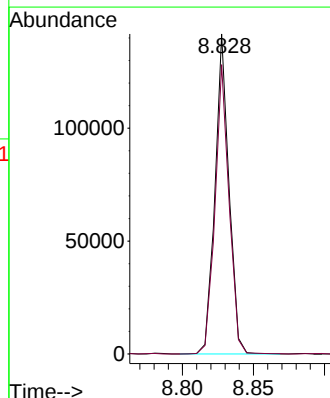
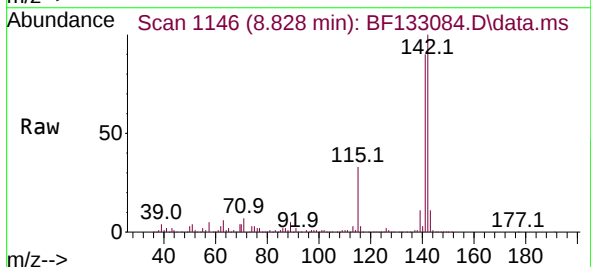
Acq: 27 Apr 2023 01:06

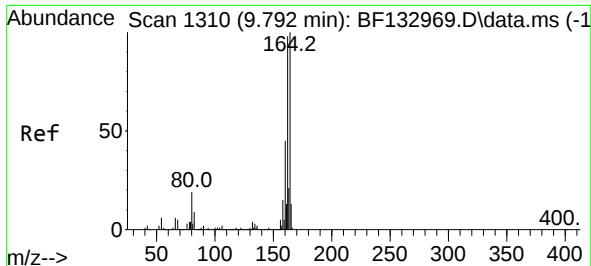
Tgt Ion:142 Resp: 97313

Ion Ratio Lower Upper

142 100

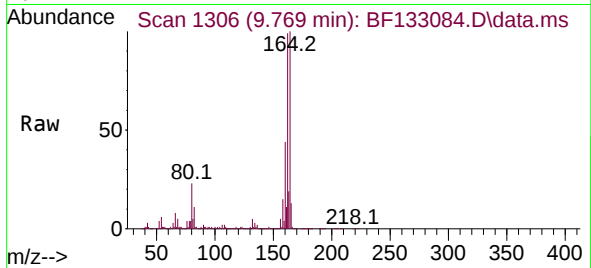
141 90.4 73.1 109.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.769 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133084.D
Acq: 27 Apr 2023 01:06

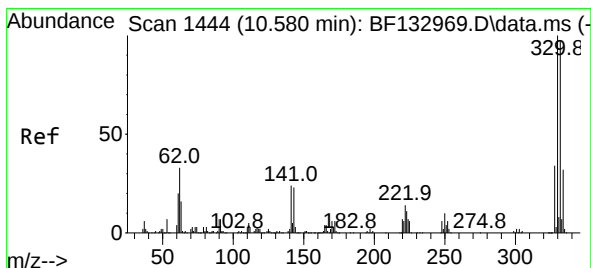
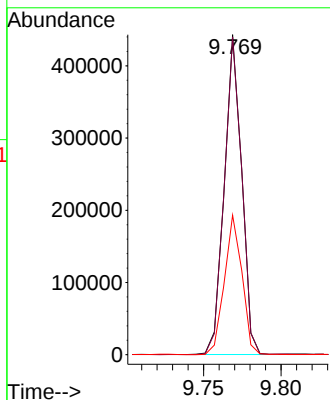
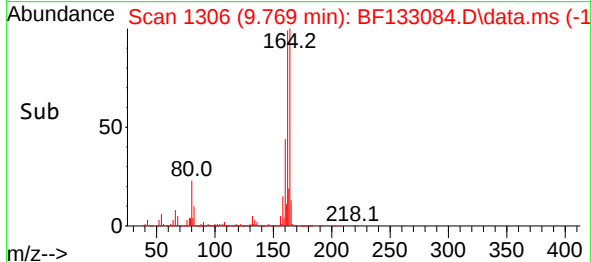
Instrument :
BNA_F
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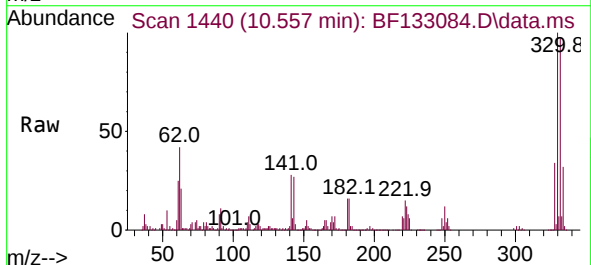
Tgt Ion:164 Resp: 34521
Ion Ratio Lower Upper
164 100
162 99.3 78.7 118.1
160 43.6 35.8 53.6

Manual Integrations
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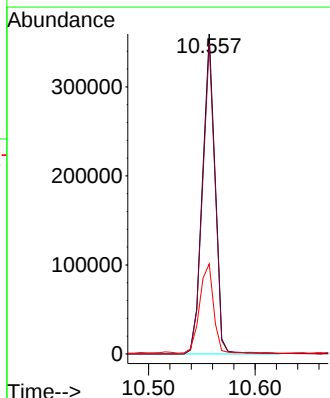
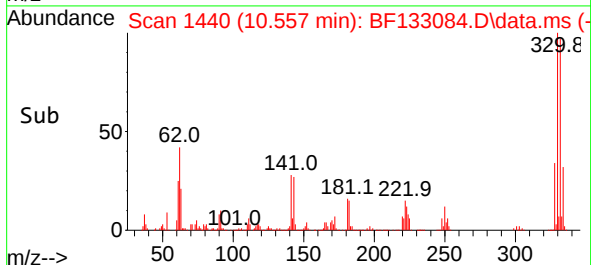
Reviewed By :Christian Giraldo 04/27/2023
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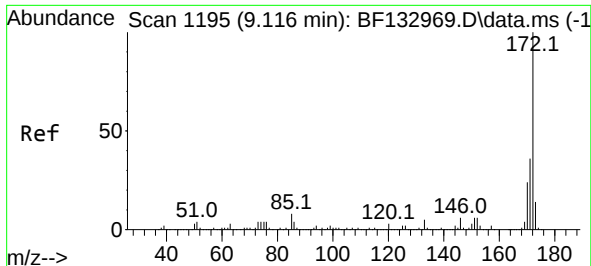


#42
2,4,6-Tribromophenol
Concen: 85.582 ng
RT: 10.557 min Scan# 1440
Delta R.T. -0.006 min
Lab File: BF133084.D
Acq: 27 Apr 2023 01:06



Tgt Ion:330 Resp: 297121
Ion Ratio Lower Upper
330 100
332 97.1 77.1 115.7
141 30.6 25.8 38.8





#45

2-Fluorobiphenyl

Concen: 65.203 ng

RT: 9.098 min Scan# 1195

Delta R.T. 0.000 min

Lab File: BF133084.D

Acq: 27 Apr 2023 01:06

Instrument :

BNA_F

ClientSampleId :

SPE-2WC-23-04-18

Tgt Ion:172 Resp: 134542

Ion Ratio Lower Upper

172 100

171 35.5 28.8 43.2

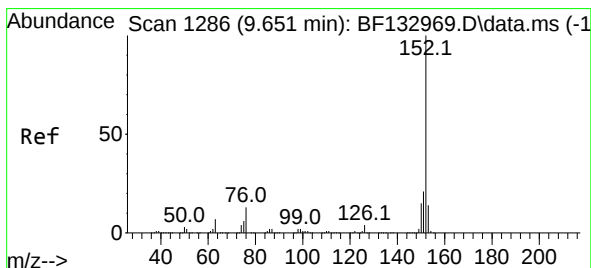
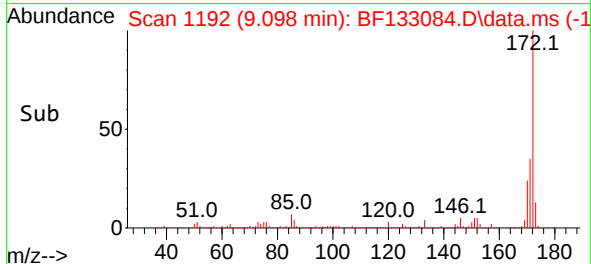
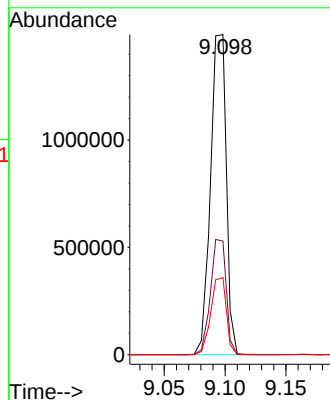
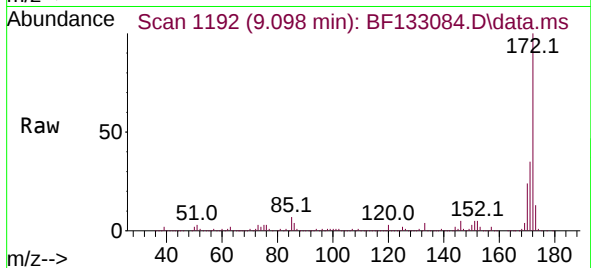
170 24.1 19.4 29.2

Manual Integrations

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Supervised By :Jagrut Upadhyay 04/27/2023



#49

Acenaphthylene

Concen: 3.202 ng

RT: 9.628 min Scan# 1282

Delta R.T. -0.006 min

Lab File: BF133084.D

Acq: 27 Apr 2023 01:06

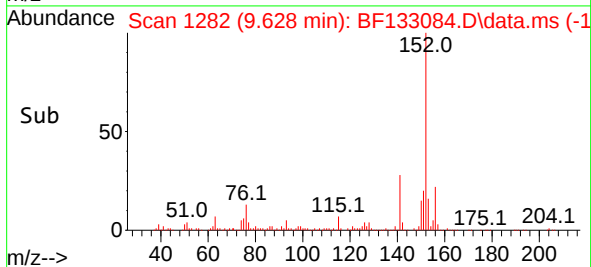
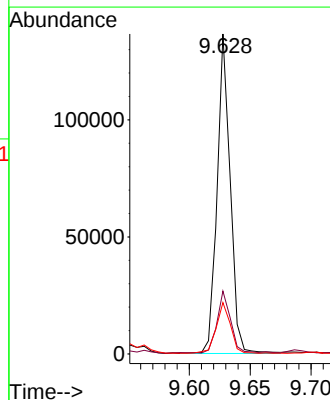
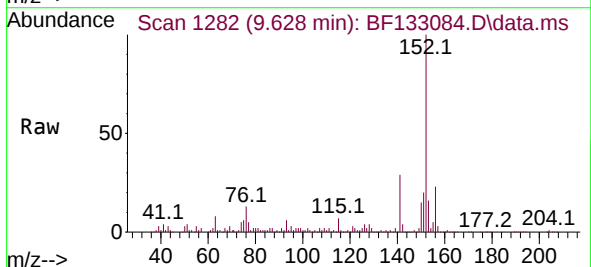
Tgt Ion:152 Resp: 102498

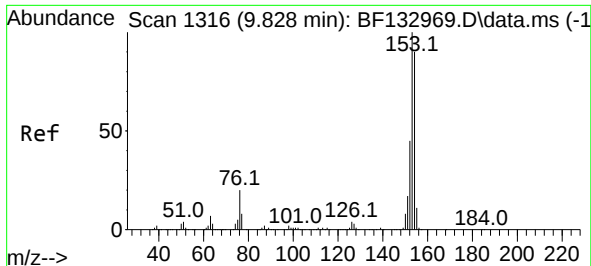
Ion Ratio Lower Upper

152 100

151 19.7 16.6 24.8

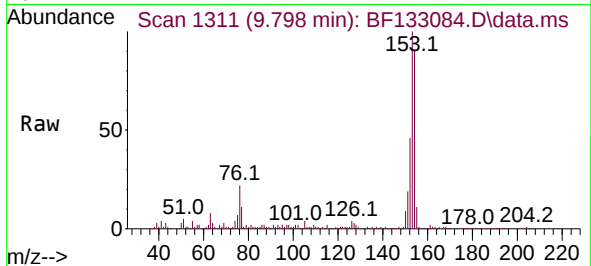
153 16.0 11.5 17.3





#52
Acenaphthene
Concen: 5.511 ng
RT: 9.798 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF133084.D
Acq: 27 Apr 2023 01:06

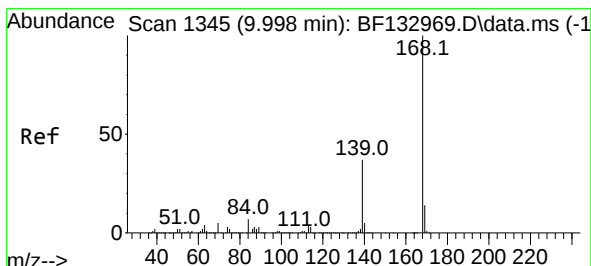
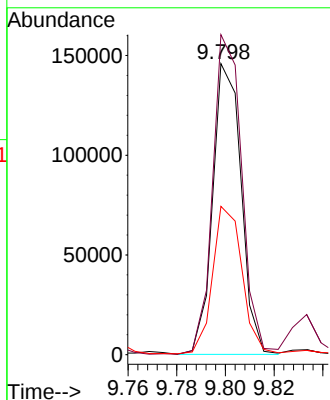
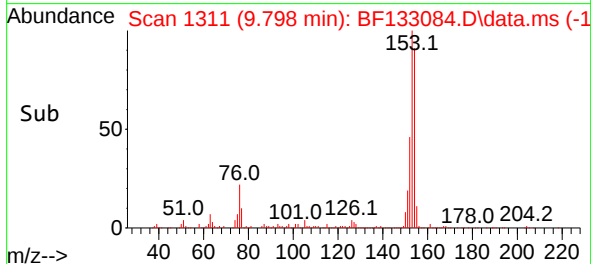
Instrument :
BNA_F
ClientSampleId :
SPE-2WC-23-04-18



Tgt Ion:154 Resp: 118154
Ion Ratio Lower Upper
154 100
153 110.0 89.0 133.6
152 51.0 40.4 60.6

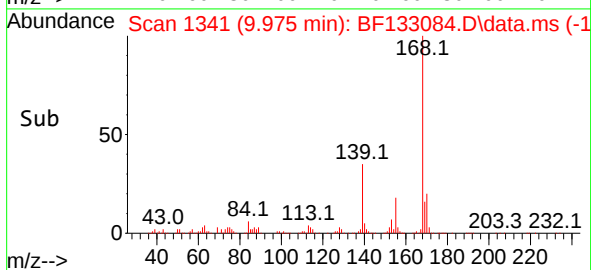
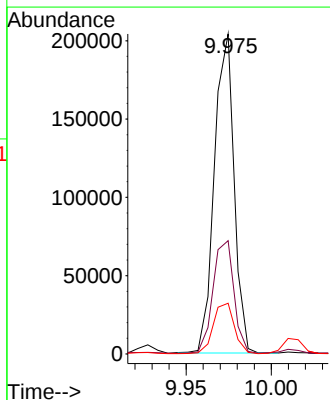
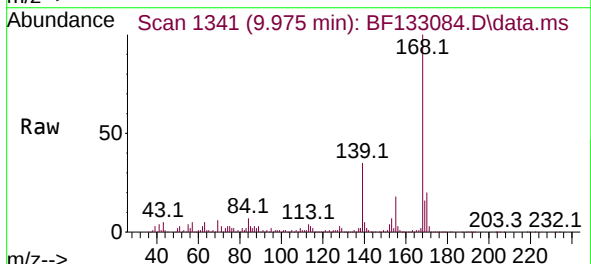
Manual Integrations
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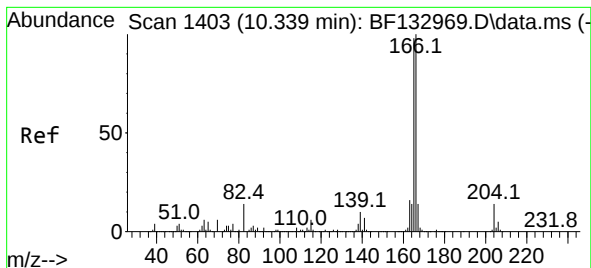
Reviewed By :Christian Giraldo 04/27/2023
Supervised By :Jagrut Upadhyay 04/27/2023



#55
Dibenzofuran
Concen: 5.595 ng
RT: 9.975 min Scan# 1341
Delta R.T. -0.006 min
Lab File: BF133084.D
Acq: 27 Apr 2023 01:06

Tgt Ion:168 Resp: 163635
Ion Ratio Lower Upper
168 100
139 35.4 29.8 44.8
169 15.9 10.8 16.2





#58

Fluorene

Concen: 8.734 ng

RT: 10.316 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF133084.D

Acq: 27 Apr 2023 01:06

Instrument :

BNA_F

ClientSampleId :

SPE-2WC-23-04-18

Tgt Ion:166 Resp: 18714

Ion Ratio Lower Upper

166 100

165 96.6 78.6 117.8

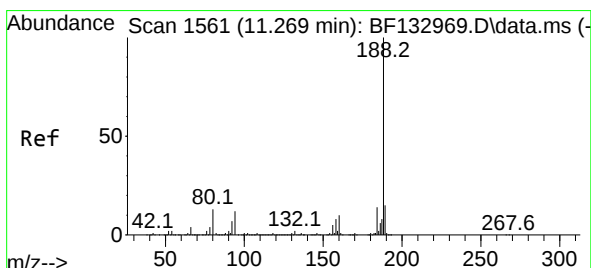
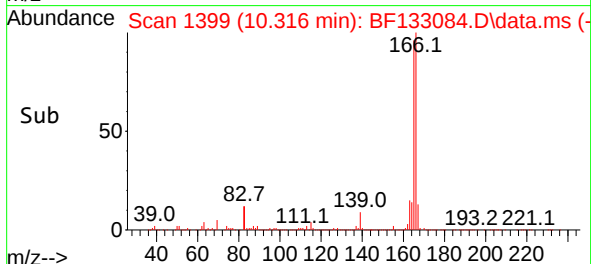
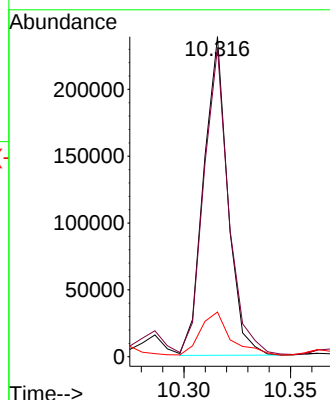
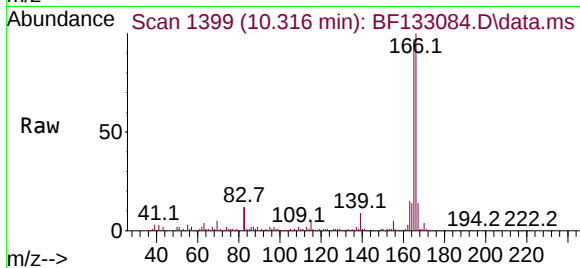
167 14.0 11.0 16.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/27/2023

Supervised By :Jagrut Upadhyay 04/27/2023



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.251 min Scan# 1558

Delta R.T. -0.006 min

Lab File: BF133084.D

Acq: 27 Apr 2023 01:06

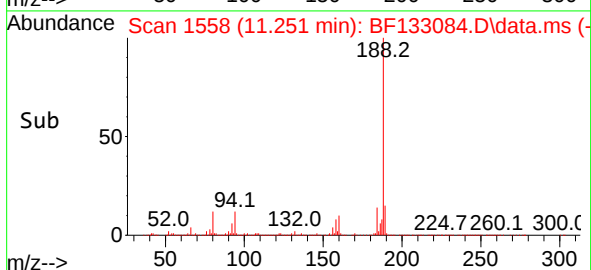
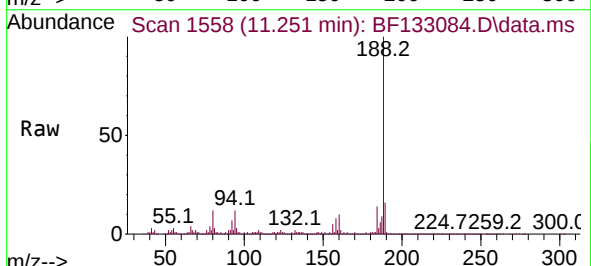
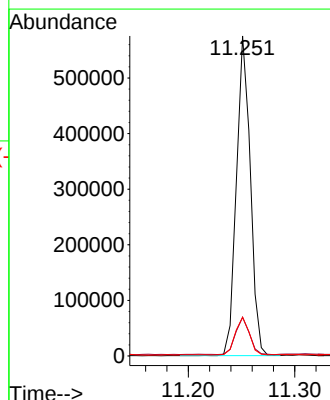
Tgt Ion:188 Resp: 522270

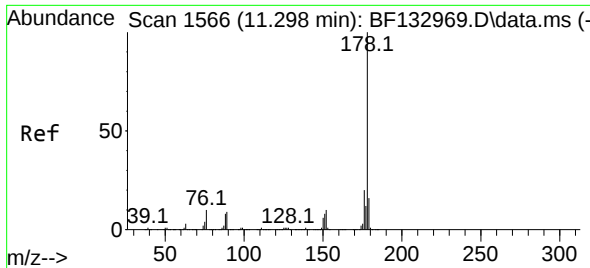
Ion Ratio Lower Upper

188 100

94 12.1 9.7 14.5

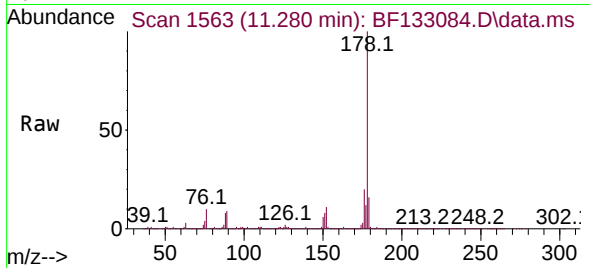
80 12.1 10.4 15.6





#71
Phenanthrene
Concen: 72.561 ng
RT: 11.280 min Scan# 1566
Delta R.T. 0.000 min
Lab File: BF133084.D
Acq: 27 Apr 2023 01:06

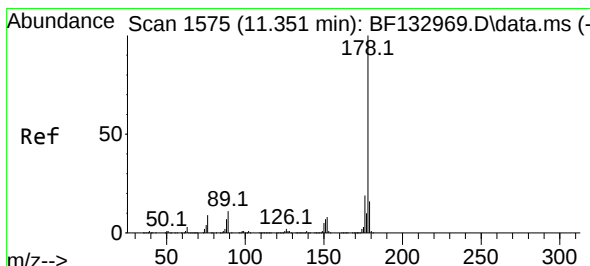
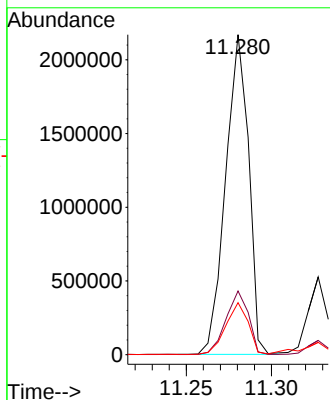
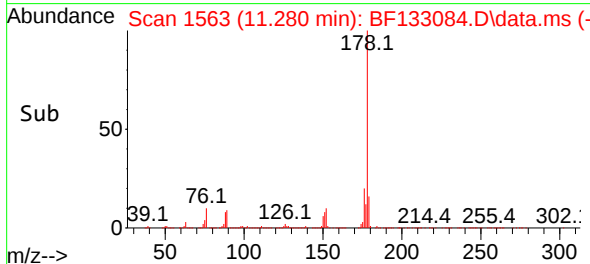
Instrument :
BNA_F
ClientSampleId :
SPE-2WC-23-04-18



Tgt Ion:178 Resp: 2036818
Ion Ratio Lower Upper
178 100
176 19.9 15.9 23.9
179 16.3 12.5 18.7

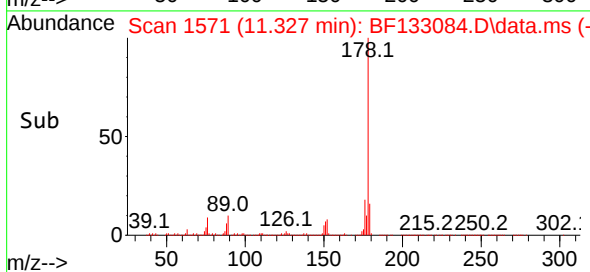
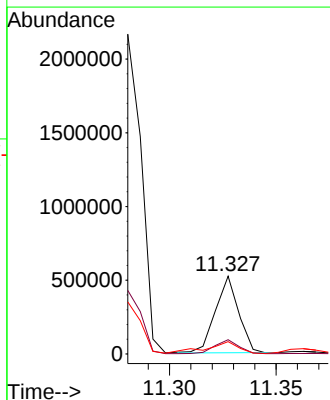
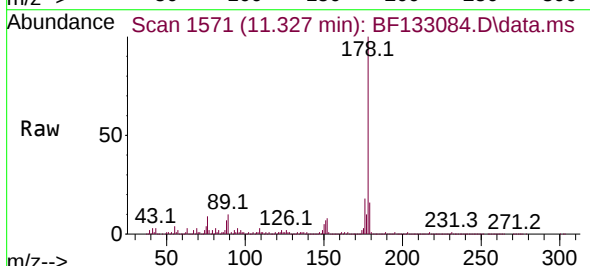
Manual Integrations
APPROVED

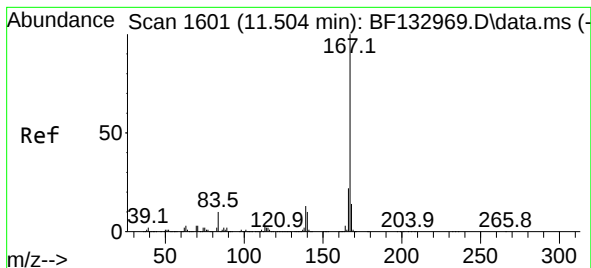
Reviewed By :Christian Giraldo 04/27/2023
Supervised By :Jagrut Upadhyay 04/27/2023



#72
Anthracene
Concen: 13.673 ng
RT: 11.327 min Scan# 1571
Delta R.T. -0.006 min
Lab File: BF133084.D
Acq: 27 Apr 2023 01:06

Tgt Ion:178 Resp: 392770
Ion Ratio Lower Upper
178 100
176 18.3 15.4 23.0
179 15.9 12.4 18.6





#73

Carbazole

Concen: 8.073 ng

RT: 11.480 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF133084.D

Acq: 27 Apr 2023 01:06

Instrument :

BNA_F

ClientSampleId :

SPE-2WC-23-04-18

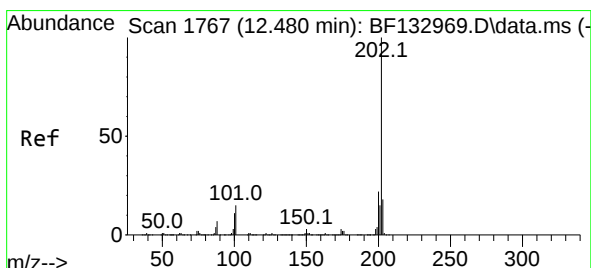
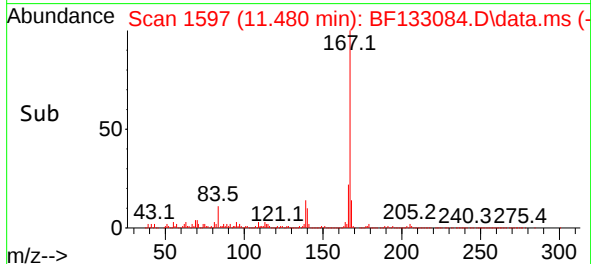
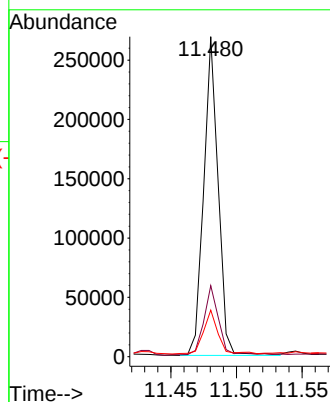
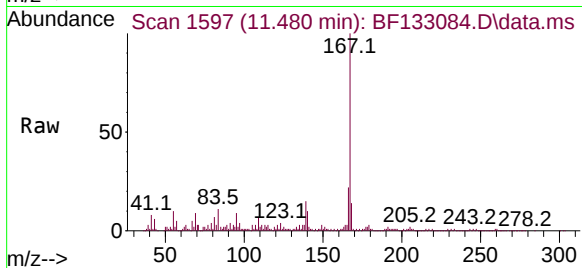
Tgt Ion:167 Resp: 206509
 Ion Ratio Lower Upper
 167 100
 166 22.2 17.4 26.0
 139 14.5 10.6 16.0

Manual Integrations

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Reviewed By :Christian Giraldo 04/27/2023

Supervised By :Jagrut Upadhyay 04/27/2023



#75

Fluoranthene

Concen: 73.481 ng

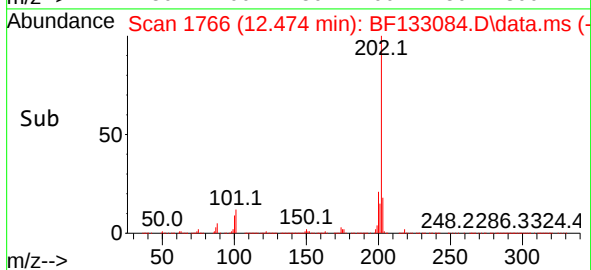
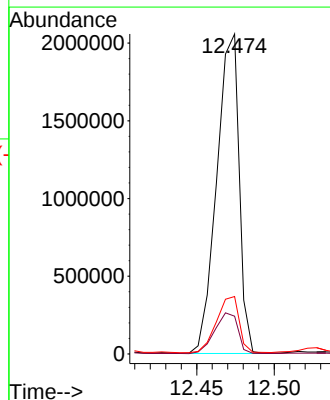
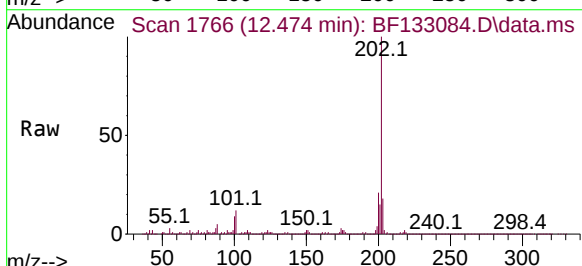
RT: 12.474 min Scan# 1766

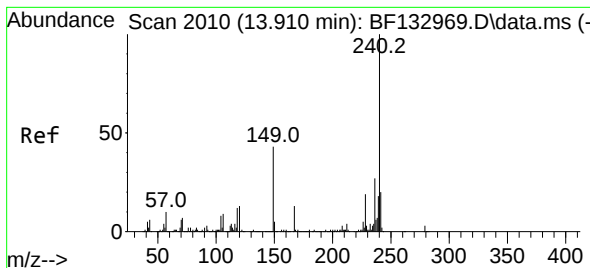
Delta R.T. 0.012 min

Lab File: BF133084.D

Acq: 27 Apr 2023 01:06

Tgt Ion:202 Resp: 2070107
 Ion Ratio Lower Upper
 202 100
 101 11.8 0.0 35.3
 203 18.0 0.0 38.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.898 min Scan# 2010

Delta R.T. 0.006 min

Lab File: BF133084.D

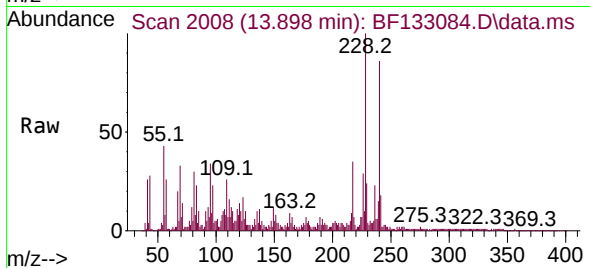
Acq: 27 Apr 2023 01:06

Instrument :

BNA_F

ClientSampleId :

SPE-2WC-23-04-18



Tgt Ion:240 Resp: 28235

Ion Ratio Lower Upper

240 100

120 16.7 10.5 15.7

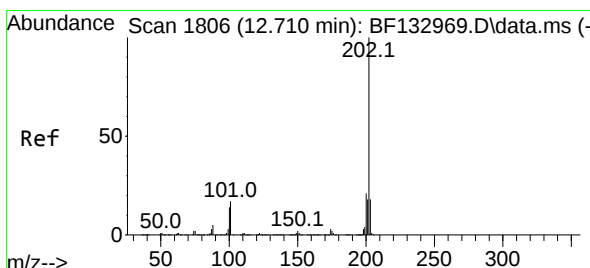
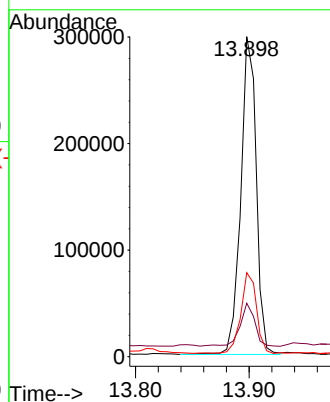
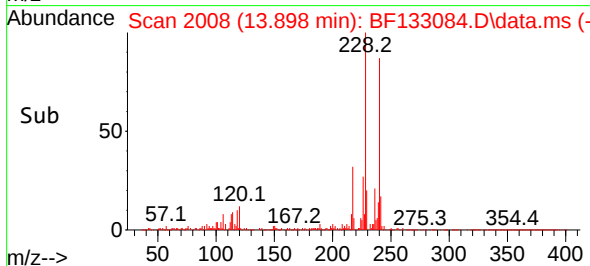
236 26.3 21.5 32.3

Manual Integrations

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Reviewed By :Christian Giraldo 04/27/2023

Supervised By :Jagrut Upadhyay 04/27/2023



#78

Pyrene

Concen: 76.962 ng

RT: 12.698 min Scan# 1804

Delta R.T. 0.006 min

Lab File: BF133084.D

Acq: 27 Apr 2023 01:06

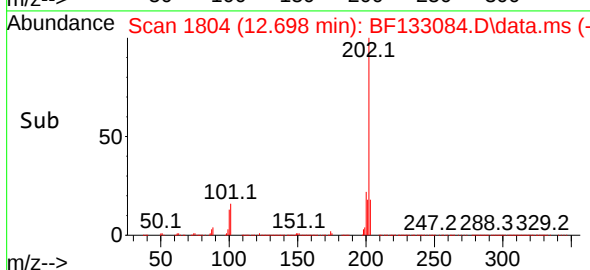
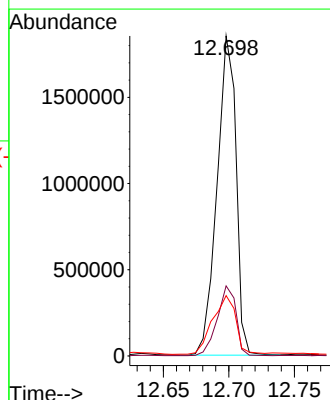
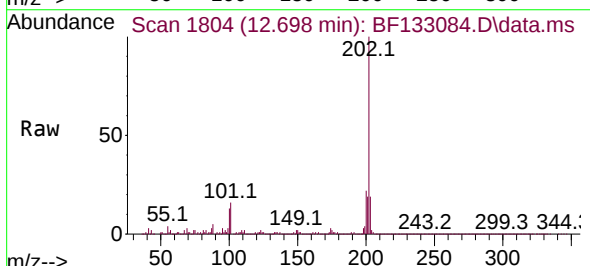
Tgt Ion:202 Resp: 1862835

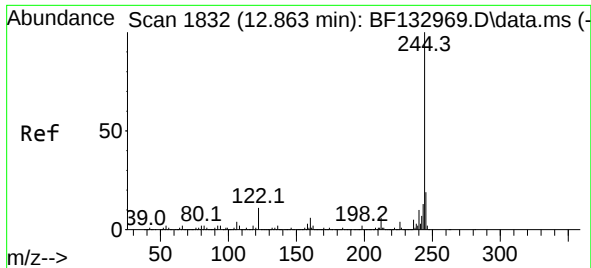
Ion Ratio Lower Upper

202 100

200 21.9 17.1 25.7

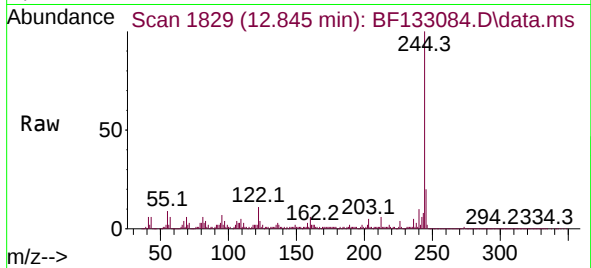
203 18.9 14.1 21.1





#79
 Terphenyl-d14
 Concen: 57.868 ng
 RT: 12.845 min Scan# 1829
 Delta R.T. 0.006 min
 Lab File: BF133084.D
 Acq: 27 Apr 2023 01:06

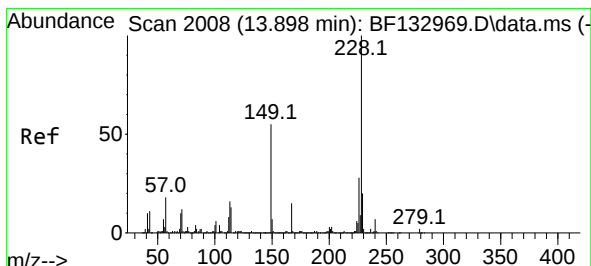
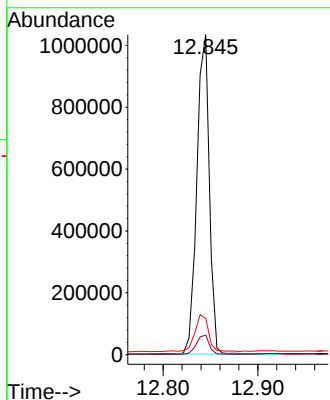
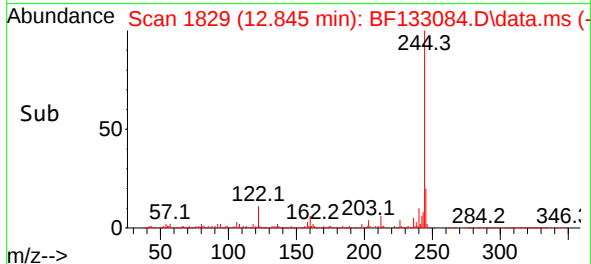
Instrument :
 BNA_F
 ClientSampleId :
 SPE-2WC-23-04-18



Tgt Ion:244 Resp: 947398
 Ion Ratio Lower Upper
 244 100
 212 6.1 5.1 7.7
 122 11.3 8.6 13.0

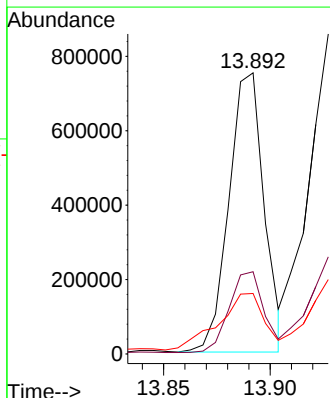
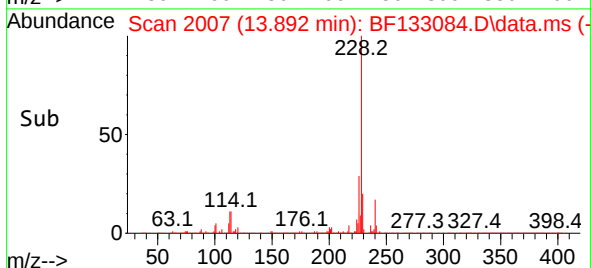
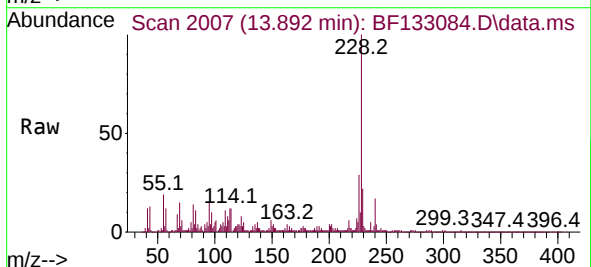
Manual Integrations
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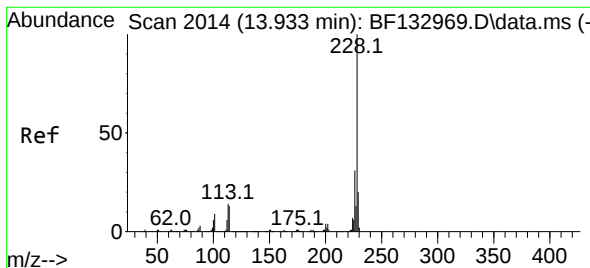
Reviewed By :Christian Giraldo 04/27/2023
 Supervised By :Jagrut Upadhyay 04/27/2023



#81
 Benzo(a)anthracene
 Concen: 44.419 ng
 RT: 13.892 min Scan# 2007
 Delta R.T. 0.012 min
 Lab File: BF133084.D
 Acq: 27 Apr 2023 01:06

Tgt Ion:228 Resp: 862487
 Ion Ratio Lower Upper
 228 100
 226 29.2 22.2 33.4
 229 21.5 16.0 24.0





#83

Chrysene

Concen: 44.278 ng

RT: 13.927 min Scan# 2014

Delta R.T. 0.012 min

Lab File: BF133084.D

Acq: 27 Apr 2023 01:06

Instrument :

BNA_F

ClientSampleId :

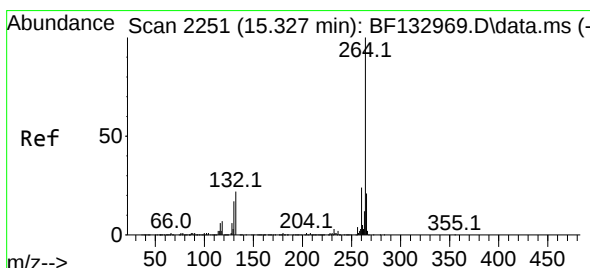
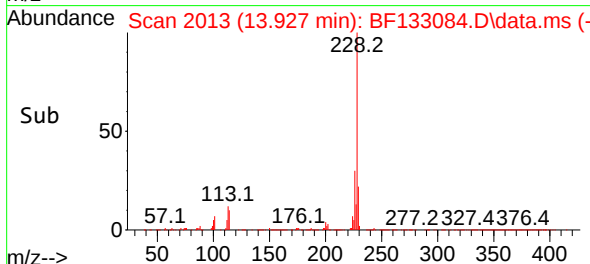
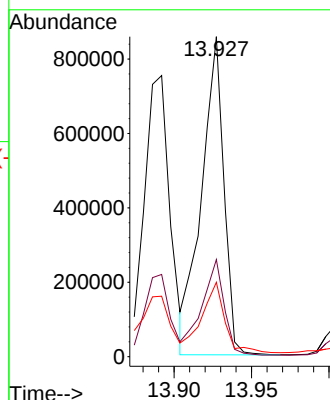
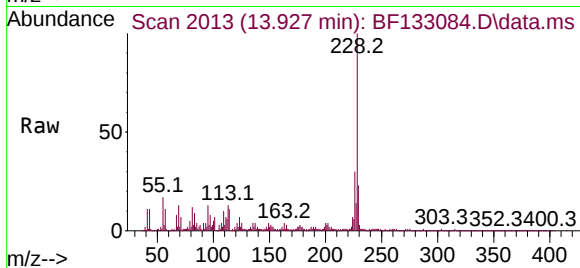
SPE-2WC-23-04-18

Tgt Ion:	228	Resp:	859530
Ion Ratio	Lower	Upper	
228	100		
226	30.4	24.7	37.1
229	23.2	16.1	24.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/27/2023
Supervised By :Jagrut Upadhyay 04/27/2023



#86

Perylene-d12

Concen: 20.000 ng

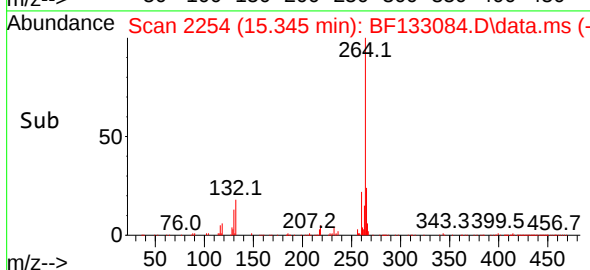
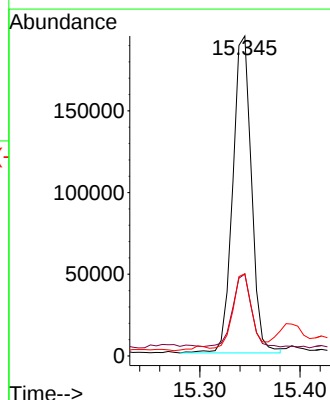
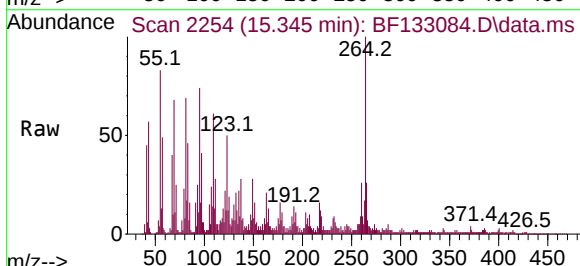
RT: 15.345 min Scan# 2254

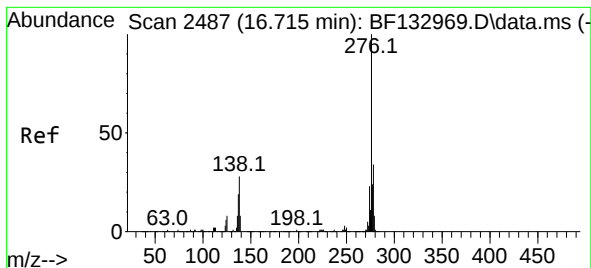
Delta R.T. 0.041 min

Lab File: BF133084.D

Acq: 27 Apr 2023 01:06

Tgt Ion:	264	Resp:	251023
Ion Ratio	Lower	Upper	
264	100		
260	25.6	18.8	28.2
265	25.7	17.0	25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 23.204 ng

RT: 16.733 min Scan# 2487

Delta R.T. 0.047 min

Lab File: BF133084.D

Acq: 27 Apr 2023 01:06

Instrument :

BNA_F

ClientSampleId :

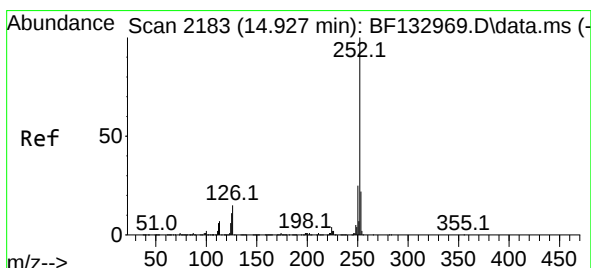
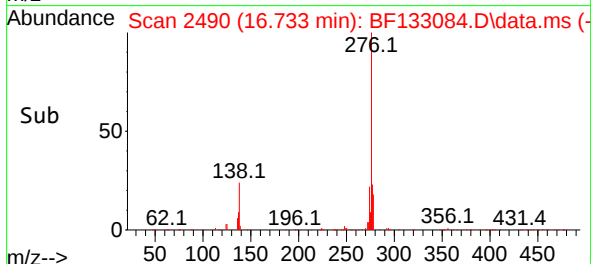
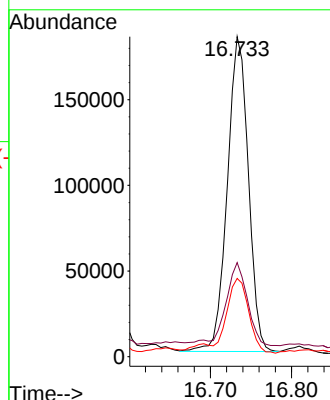
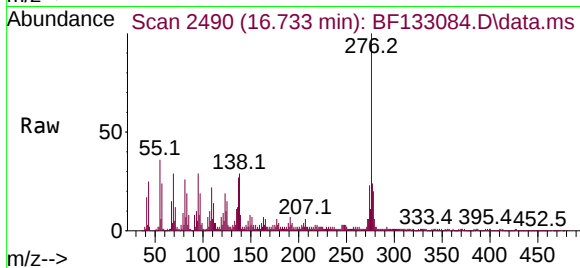
SPE-2WC-23-04-18

Tgt Ion:276 Resp: 331320
 Ion Ratio Lower Upper
 276 100
 138 27.9 25.5 38.3
 277 24.4 20.4 30.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/27/2023
 Supervised By :Jagrut Upadhyay 04/27/2023



#88

Benzo(b)fluoranthene

Concen: 60.260 ng m

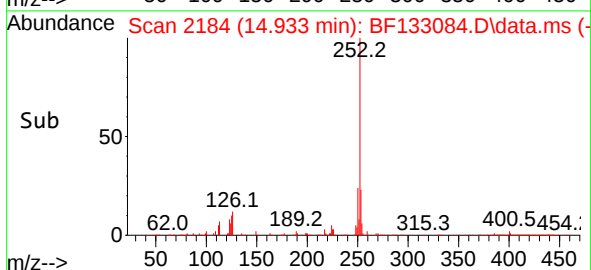
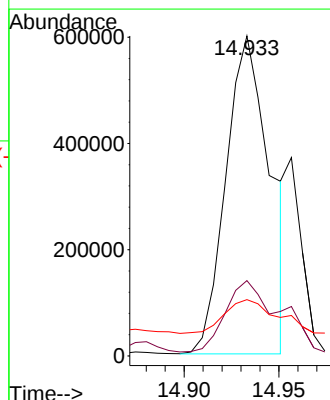
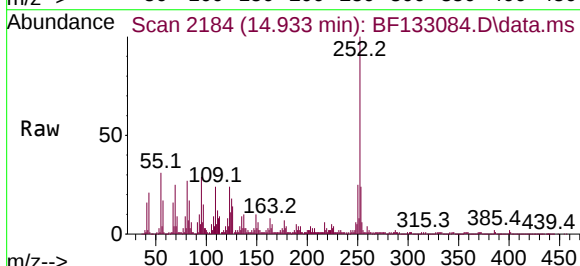
RT: 14.933 min Scan# 2184

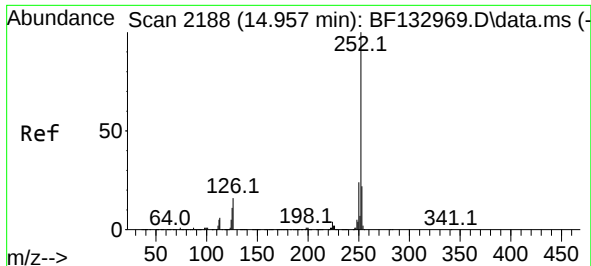
Delta R.T. 0.030 min

Lab File: BF133084.D

Acq: 27 Apr 2023 01:06

Tgt Ion:252 Resp: 962335
 Ion Ratio Lower Upper
 252 100
 253 23.6 17.6 26.4
 125 17.6 8.9 13.3#





#89

Benzo(k)fluoranthene

Concen: 13.367 ng m

RT: 14.957 min Scan# 2188

Delta R.T. 0.024 min

Lab File: BF133084.D

Acq: 27 Apr 2023 01:06

Instrument :

BNA_F

ClientSampleId :

SPE-2WC-23-04-18

Tgt Ion:252 Resp: 211610

Ion Ratio Lower Upper

252 100

253 24.9 17.7 26.5

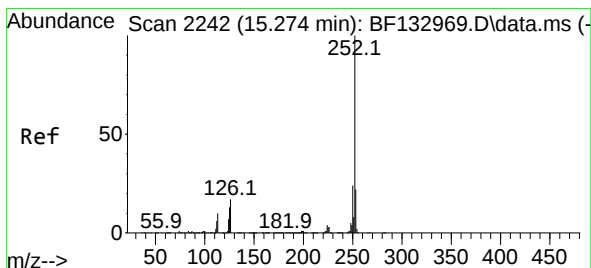
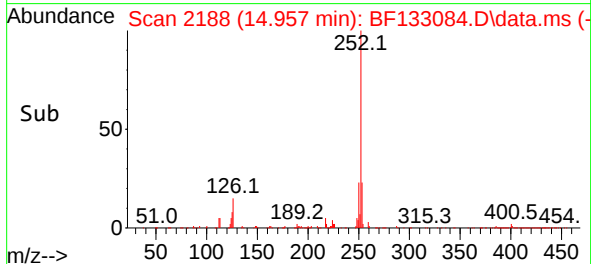
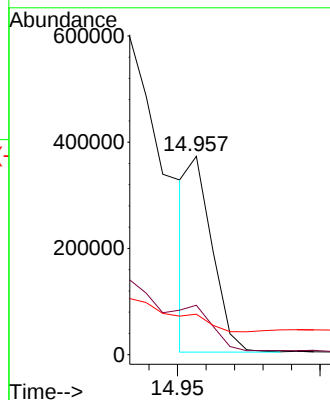
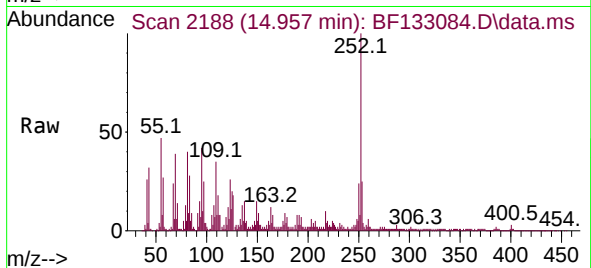
125 20.4 9.0 13.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/27/2023

Supervised By :Jagrut Upadhyay 04/27/2023



#90

Benzo(a)pyrene

Concen: 36.407 ng

RT: 15.280 min Scan# 2243

Delta R.T. 0.030 min

Lab File: BF133084.D

Acq: 27 Apr 2023 01:06

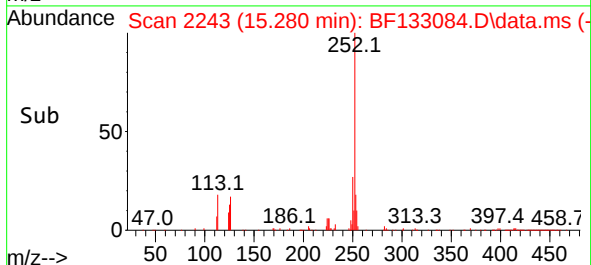
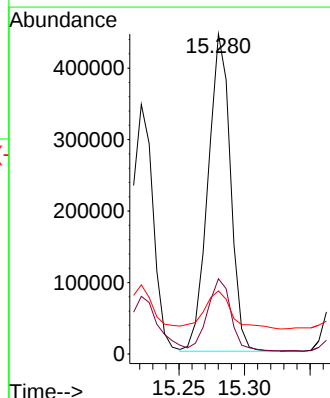
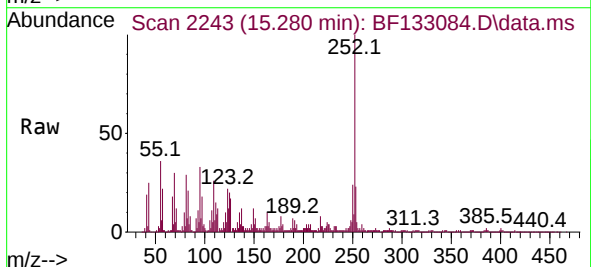
Tgt Ion:252 Resp: 529201

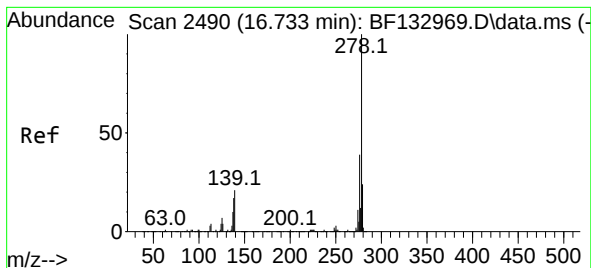
Ion Ratio Lower Upper

252 100

253 23.5 17.7 26.5

125 19.7 10.5 15.7





#91

Dibenzo(a,h)anthracene

Concen: 7.672 ng

RT: 16.739 min Scan# 2490

Delta R.T. 0.035 min

Lab File: BF133084.D

Acq: 27 Apr 2023 01:06

Instrument :

BNF

ClientSampleId :

SPE-2WC-23-04-18

Tgt Ion:278 Resp: 9136

Ion Ratio Lower Upper

278 100

139 34.9 16.6 24.8

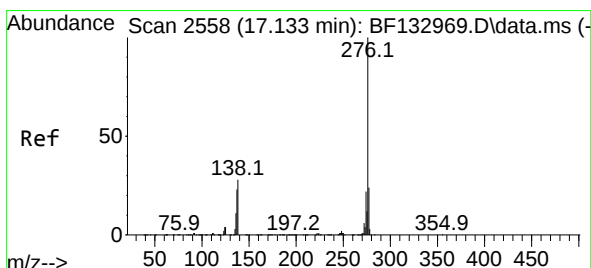
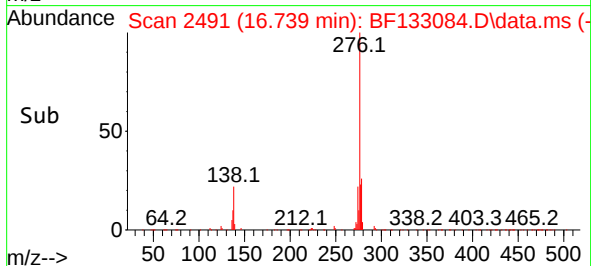
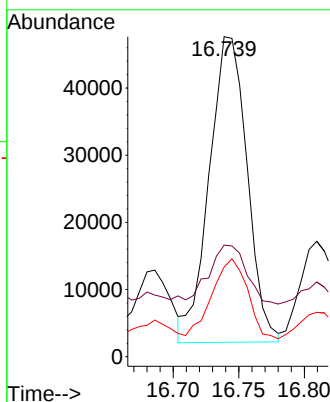
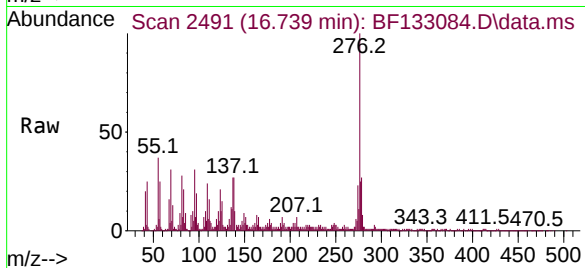
279 28.0 18.8 28.2

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/27/2023

Supervised By :Jagrut Upadhyay 04/27/2023



#92

Benzo(g,h,i)perylene

Concen: 25.604 ng

RT: 17.151 min Scan# 2561

Delta R.T. 0.053 min

Lab File: BF133084.D

Acq: 27 Apr 2023 01:06

Tgt Ion:276 Resp: 301036

Ion Ratio Lower Upper

276 100

277 24.5 19.4 29.0

138 28.5 22.7 34.1

