

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050923\
 Data File : BF133320.D
 Acq On : 09 May 2023 16:39
 Operator : CG\JU
 Sample : 02680-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-02-050823

Quant Time: May 10 01:48:13 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 09 04:59:36 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Christian Giraldo 05/10/2023
 Supervised By : Jagrut Upadhyay 05/10/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.716	152	200215	20.000	ng	0.00
21) Naphthalene-d8	8.004	136	794964	20.000	ng	0.00
39) Acenaphthene-d10	9.757	164	401280	20.000	ng	0.00
64) Phenanthrene-d10	11.239	188	601285	20.000	ng	# 0.00
76) Chrysene-d12	13.874	240	372351	20.000	ng	0.00
86) Perylene-d12	15.298	264	350372	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.328	112	926671	69.917	ng	0.00
7) Phenol-d6	6.363	99	1133160	68.881	ng	0.00
23) Nitrobenzene-d5	7.281	82	682926	46.370	ng	-0.01
42) 2,4,6-Tribromophenol	10.545	330	229943	56.978	ng	0.00
45) 2-Fluorobiphenyl	9.080	172	1243203	51.831	ng	0.00
79) Terphenyl-d14	12.827	244	1008994	46.735	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	9.616	152	90491	2.432	ng	99
71) Phenanthrene	11.263	178	683481	21.149	ng	100
72) Anthracene	11.310	178	161927	4.896	ng	99
75) Fluoranthene	12.451	202	1388756	42.818	ng	99
78) Pyrene	12.680	202	1292957	40.507	ng	99
81) Benzo(a)anthracene	13.868	228	696019	27.182	ng	95
83) Chrysene	13.904	228	654720	25.576	ng	98
87) Indeno(1,2,3-cd)pyrene	16.674	276	261331m	13.113	ng	
88) Benzo(b)fluoranthene	14.892	252	781584m	35.064	ng	
89) Benzo(k)fluoranthene	14.915	252	250834m	11.352	ng	
90) Benzo(a)pyrene	15.239	252	532032	26.223	ng	98
91) Dibenzo(a,h)anthracene	16.680	278	68040m	4.093	ng	
92) Benzo(g,h,i)perylene	17.092	276	232834	14.188	ng	97

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

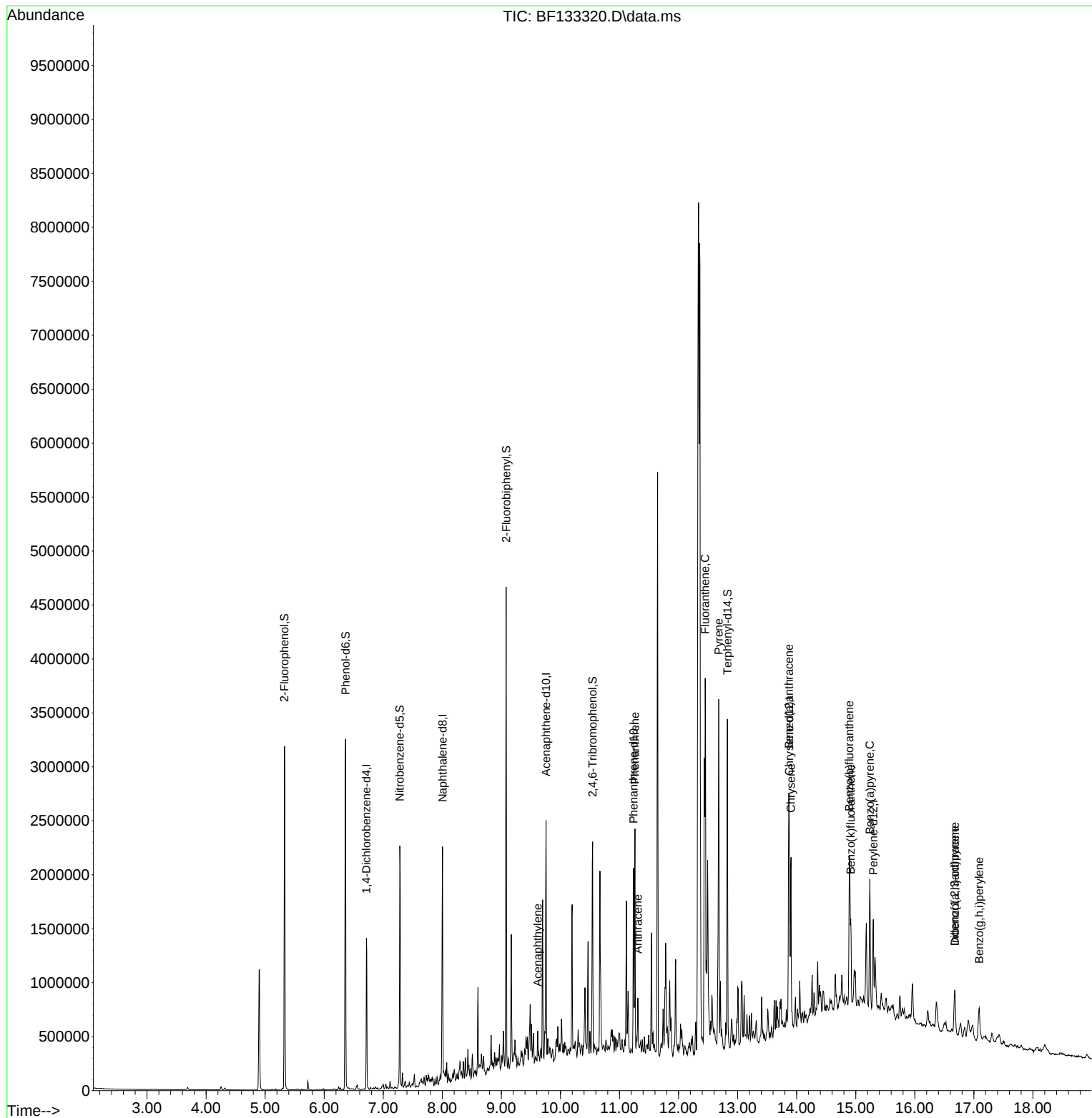
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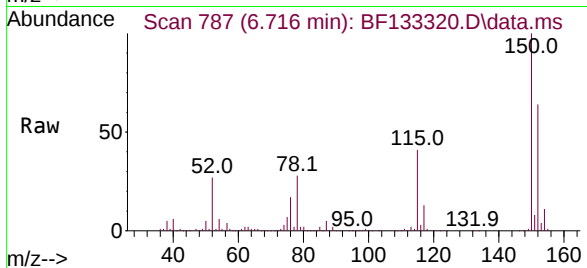
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.716 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF133320.D
Acq: 09 May 2023 16:39

Instrument :

BNA_F

ClientSampleId :

SU-02-050823

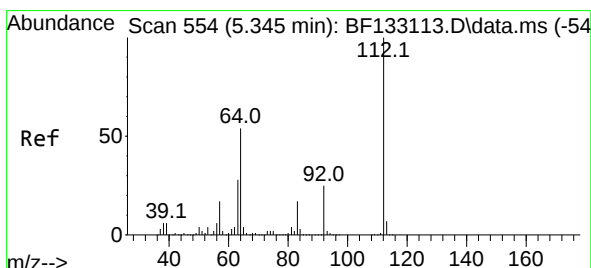
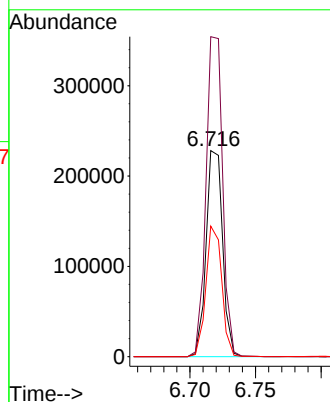
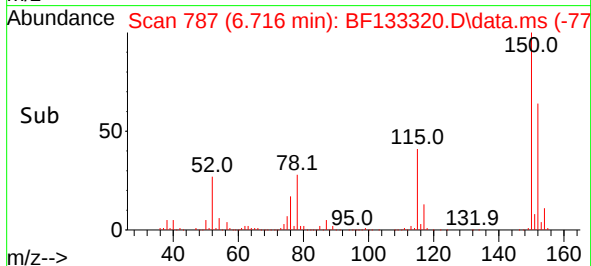


Tgt Ion:152 Resp: 200215
Ion Ratio Lower Upper
152 100
150 155.3 124.8 187.2
115 63.4 49.9 74.9

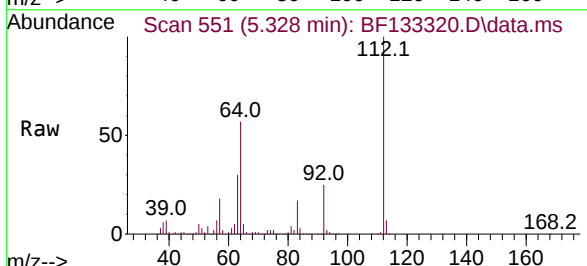
Manual Integrations

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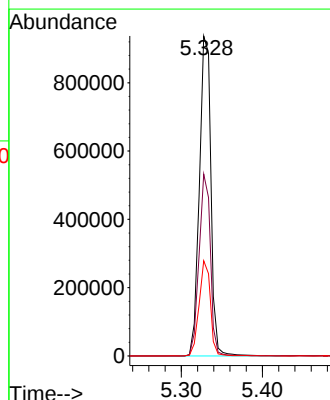
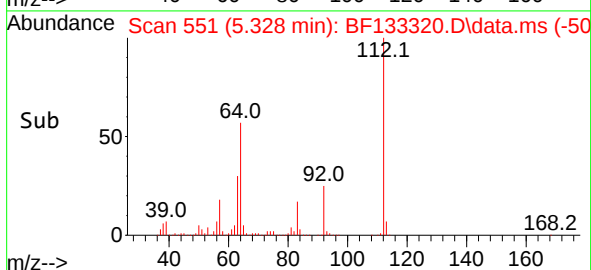
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023

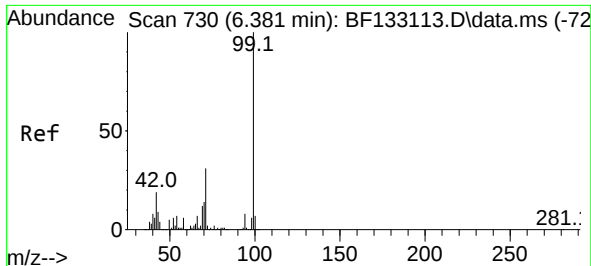


#5
2-Fluorophenol
Concen: 69.917 ng
RT: 5.328 min Scan# 551
Delta R.T. -0.000 min
Lab File: BF133320.D
Acq: 09 May 2023 16:39



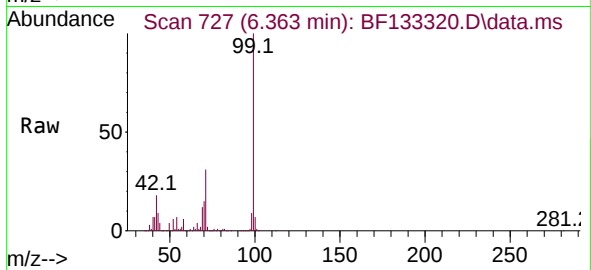
Tgt Ion:112 Resp: 926671
Ion Ratio Lower Upper
112 100
64 56.8 46.8 70.2
63 29.7 23.8 35.8





#7
Phenol-d6
Concen: 68.881 ng
RT: 6.363 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF133320.D
Acq: 09 May 2023 16:39

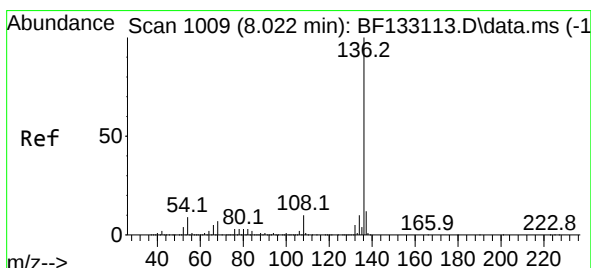
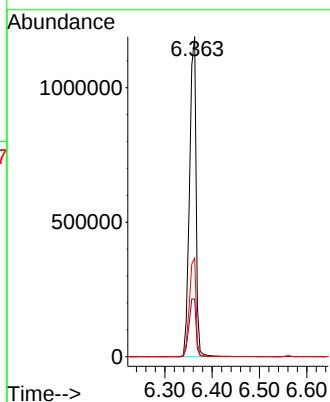
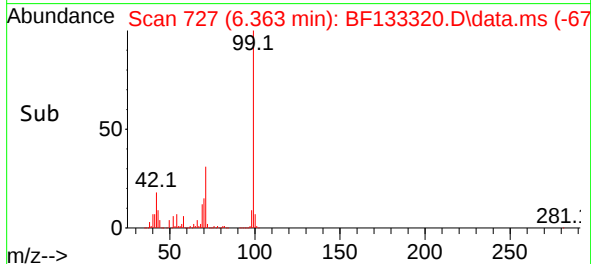
Instrument :
BNA_F
ClientSampleId :
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Tgt Ion: 99 Resp: 1133160
Ion Ratio Lower Upper
99 100
42 18.0 16.3 24.5
71 30.8 25.6 38.4

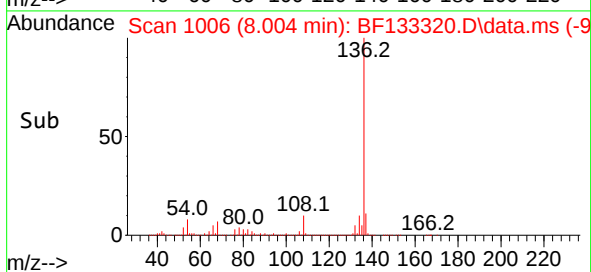
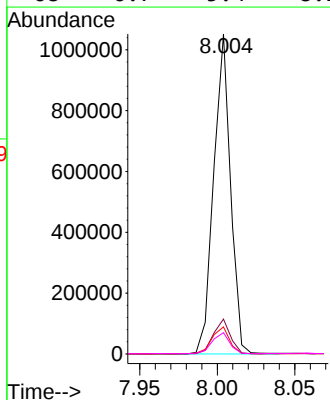
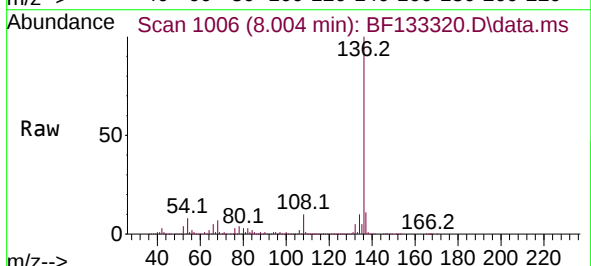
Manual Integrations
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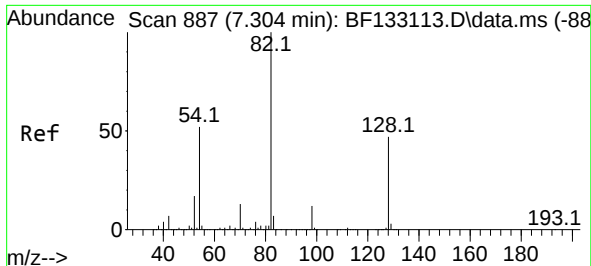
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.004 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF133320.D
Acq: 09 May 2023 16:39

Tgt Ion:136 Resp: 794964
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 8.5 7.0 10.4
68 6.7 5.4 8.2





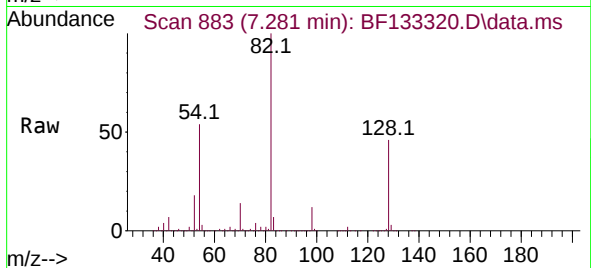
#23
Nitrobenzene-d5
Concen: 46.370 ng
RT: 7.281 min Scan# 887
Delta R.T. -0.012 min
Lab File: BF133320.D
Acq: 09 May 2023 16:39

Instrument :

BNA_F

ClientSampleId :

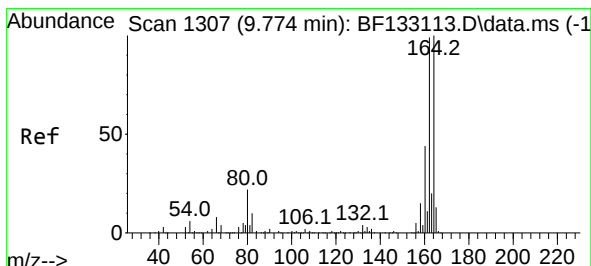
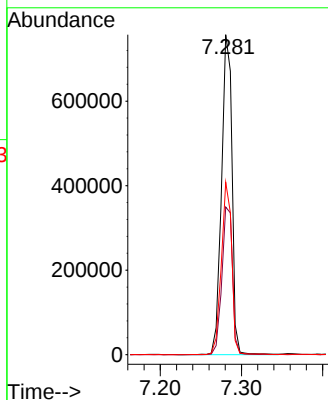
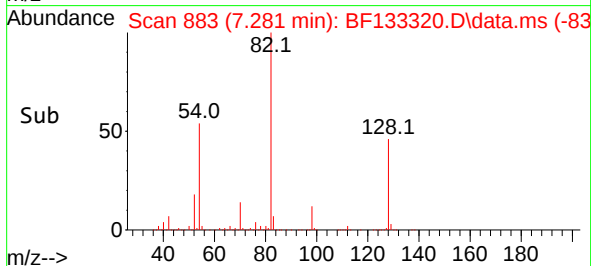
SU-02-050823



Tgt Ion: 82 Resp: 682920
Ion Ratio Lower Upper
82 100
128 46.2 37.7 56.5
54 53.9 43.0 64.4

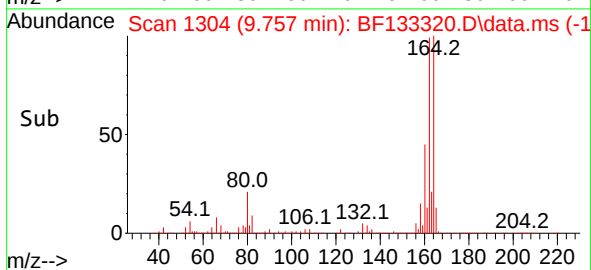
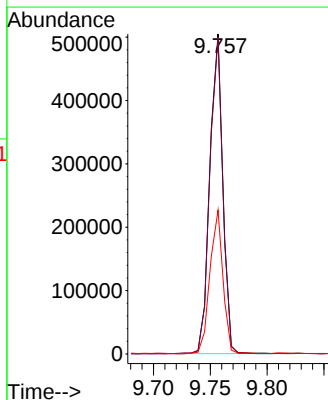
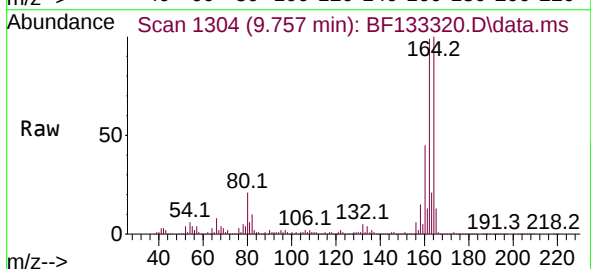
Manual Integrations
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.757 min Scan# 1304
Delta R.T. -0.006 min
Lab File: BF133320.D
Acq: 09 May 2023 16:39

Tgt Ion:164 Resp: 401280
Ion Ratio Lower Upper
164 100
162 99.0 78.7 118.1
160 44.9 35.8 53.6





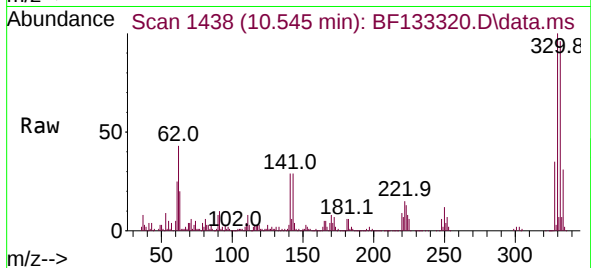
#42
2,4,6-Tribromophenol
Concen: 56.978 ng
RT: 10.545 min Scan# 1441
Delta R.T. -0.006 min
Lab File: BF133320.D
Acq: 09 May 2023 16:39

Instrument :

BNA_F

ClientSampleId :

SU-02-050823

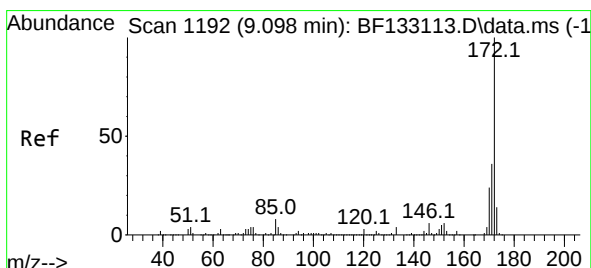
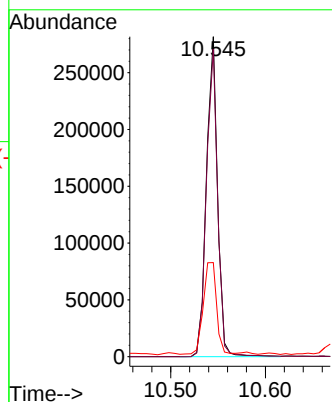
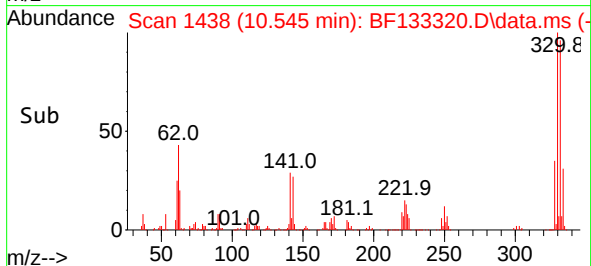


Tgt Ion: 330 Resp: 22994
Ion Ratio Lower Upper
330 100
332 97.0 77.1 115.7
141 34.2 25.8 38.8

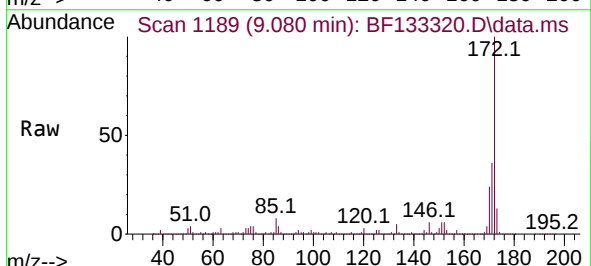
Manual Integrations

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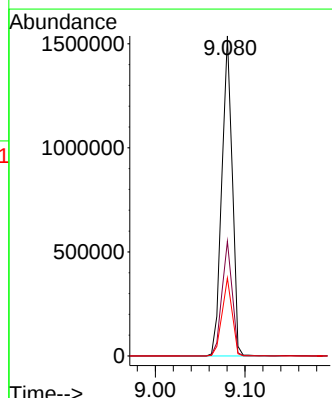
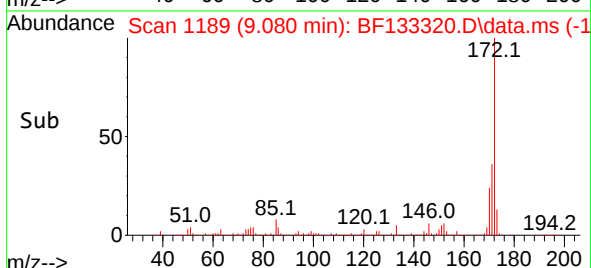
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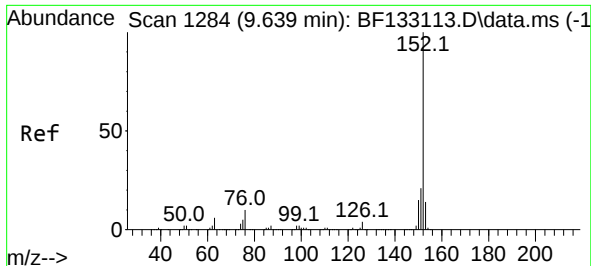


#45
2-Fluorobiphenyl
Concen: 51.831 ng
RT: 9.080 min Scan# 1189
Delta R.T. -0.006 min
Lab File: BF133320.D
Acq: 09 May 2023 16:39



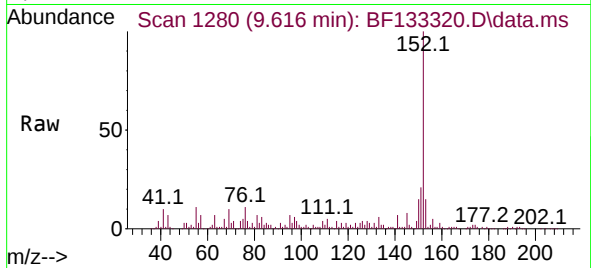
Tgt Ion: 172 Resp: 1243203
Ion Ratio Lower Upper
172 100
171 35.8 28.8 43.2
170 24.3 19.4 29.2





#49
Acenaphthylene
Concen: 2.432 ng
RT: 9.616 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133320.D
Acq: 09 May 2023 16:39

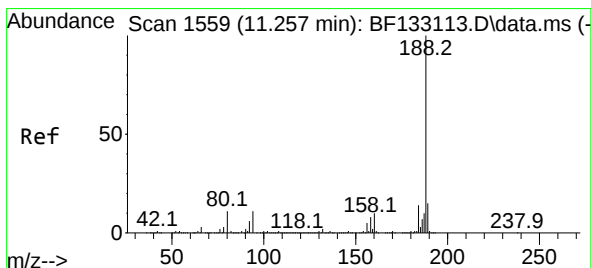
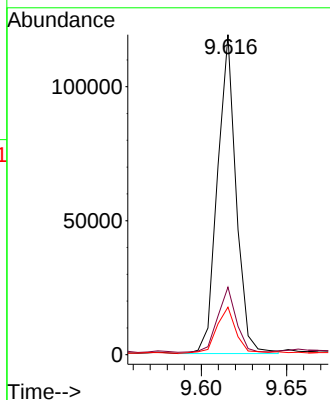
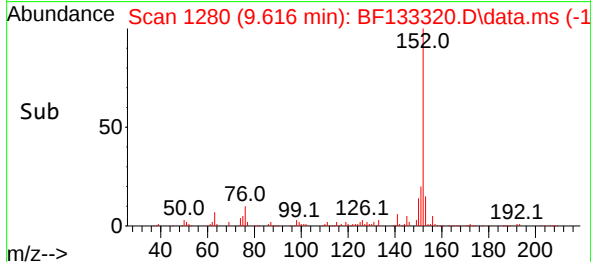
Instrument :
BNA_F
ClientSampleId :
SU-02-050823



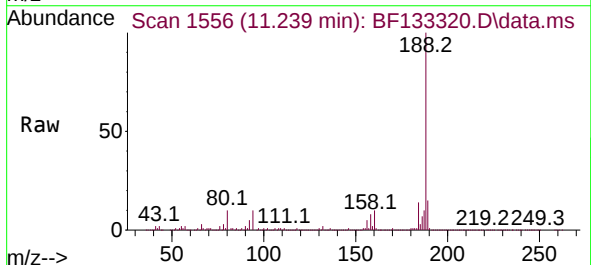
Tgt Ion:152 Resp: 9049
Ion Ratio Lower Upper
152 100
151 21.1 16.6 24.8
153 14.8 11.5 17.3

Manual Integrations
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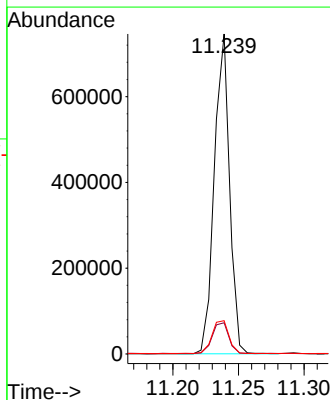
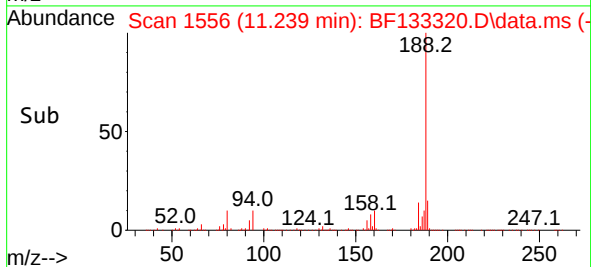
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023

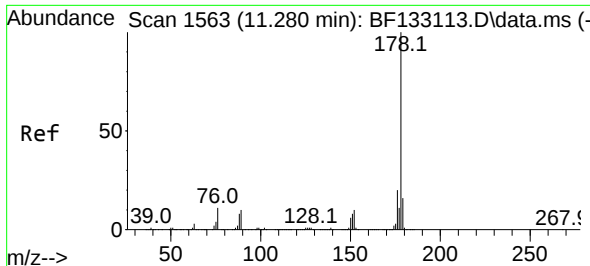


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.239 min Scan# 1556
Delta R.T. -0.006 min
Lab File: BF133320.D
Acq: 09 May 2023 16:39



Tgt Ion:188 Resp: 601285
Ion Ratio Lower Upper
188 100
94 9.7 9.7 14.5
80 10.4 10.4 15.6#





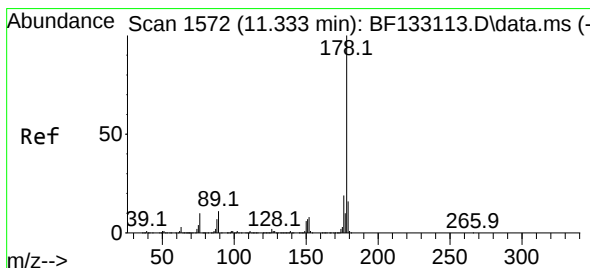
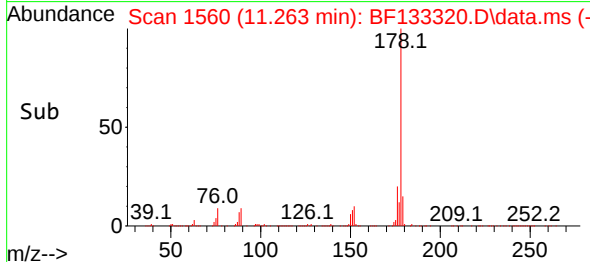
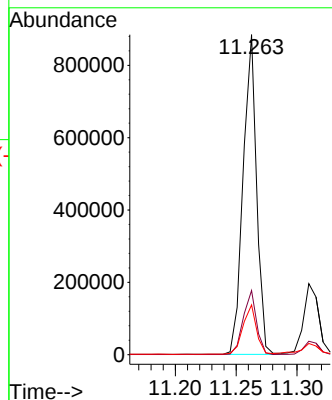
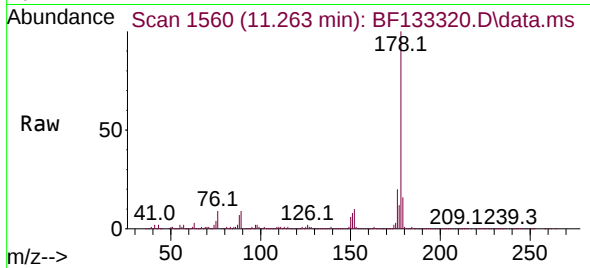
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Phenanthrene
Concen: 21.149 ng
RT: 11.263 min Scan# 1563
Delta R.T. -0.006 min
Lab File: BF133320.D
Acq: 09 May 2023 16:39

Instrument :
BNA_F
ClientSampleId :
SU-02-050823

Tgt Ion:178 Resp: 68348
Ion Ratio Lower Upper
178 100
176 20.1 15.9 23.9
179 15.5 12.5 18.7

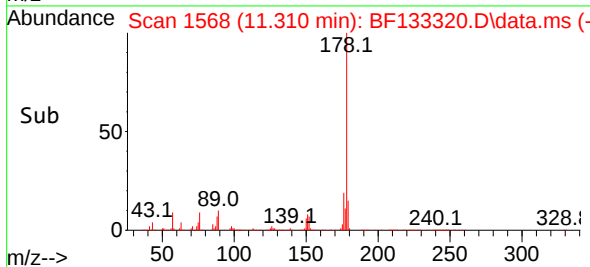
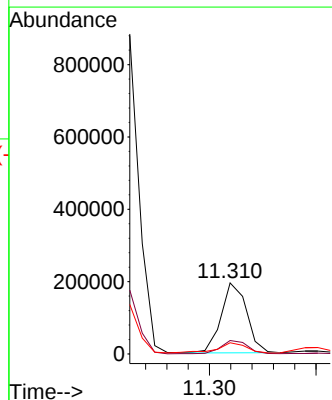
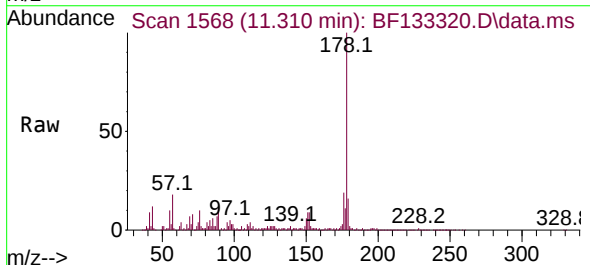
Manual Integrations
APPROVED

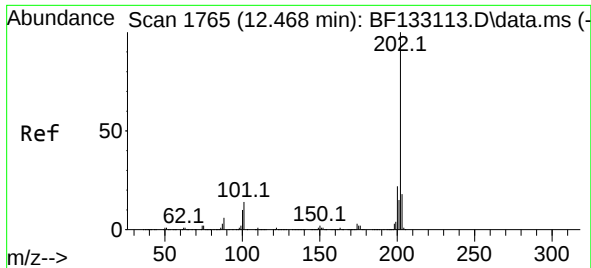
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#72
Anthracene
Concen: 4.896 ng
RT: 11.310 min Scan# 1568
Delta R.T. -0.012 min
Lab File: BF133320.D
Acq: 09 May 2023 16:39

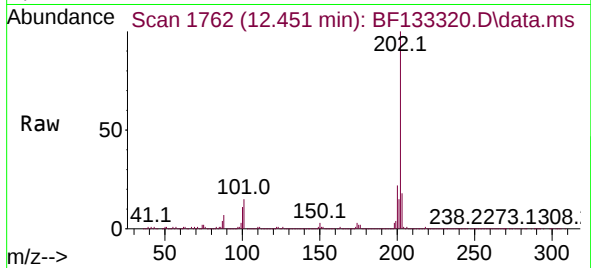
Tgt Ion:178 Resp: 161927
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.0
179 15.8 12.4 18.6





#75
Fluoranthene
Concen: 42.818 ng
RT: 12.451 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133320.D
Acq: 09 May 2023 16:39

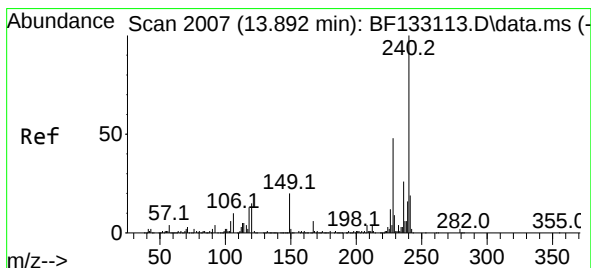
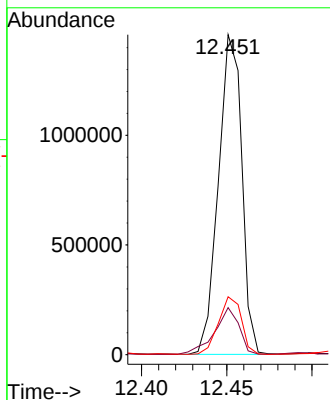
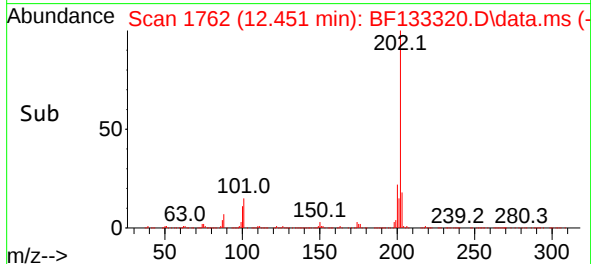
Instrument :
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SU-02-050823



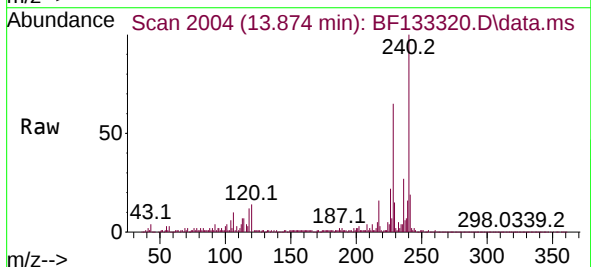
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Ion Ratio Lower Upper
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101 14.7 0.0 35.3
203 18.1 0.0 38.1

Manual Integrations
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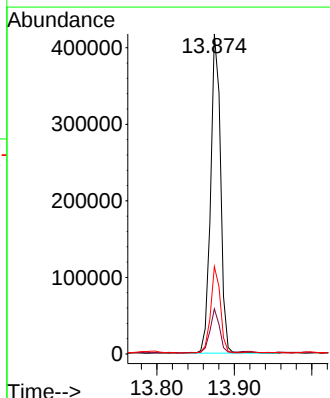
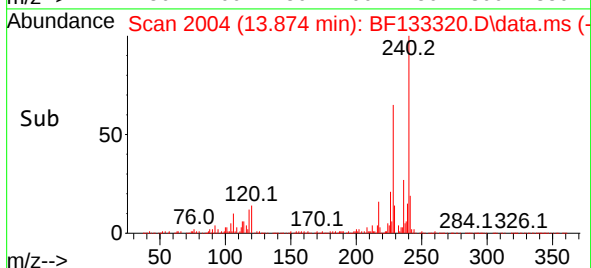
Reviewed By :Christian Giraldo 05/10/2023
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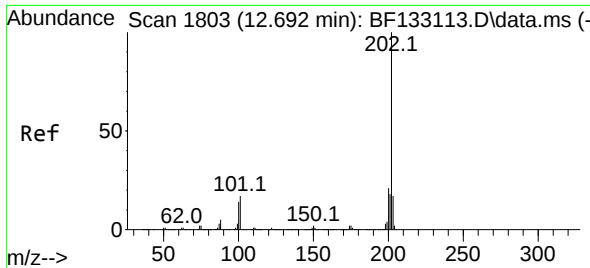


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.874 min Scan# 2004
Delta R.T. -0.006 min
Lab File: BF133320.D
Acq: 09 May 2023 16:39



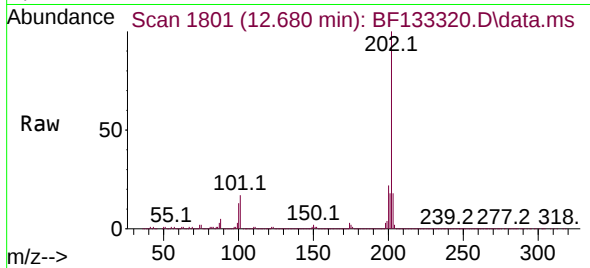
Tgt Ion:240 Resp: 372351
Ion Ratio Lower Upper
240 100
120 14.1 10.5 15.7
236 27.3 21.5 32.3





#78
Pyrene
Concen: 40.507 ng
RT: 12.680 min Scan# 1801
Delta R.T. -0.000 min
Lab File: BF133320.D
Acq: 09 May 2023 16:39

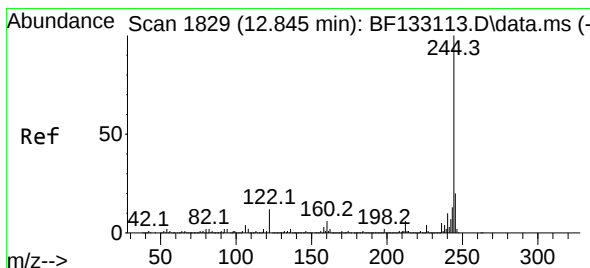
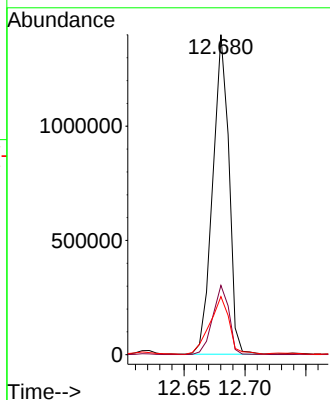
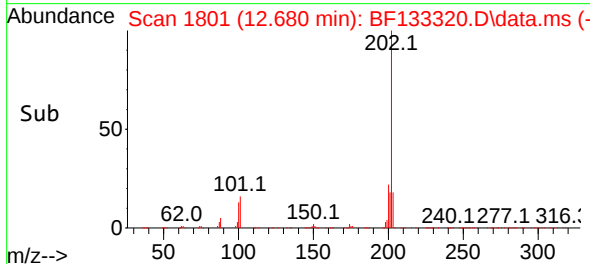
Instrument :
BNA_F
ClientSampleId :
SU-02-050823



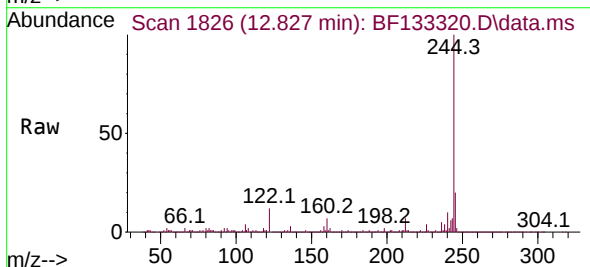
Tgt Ion:202 Resp: 129295
Ion Ratio Lower Upper
202 100
200 21.6 17.1 25.7
203 18.2 14.1 21.1

Manual Integrations
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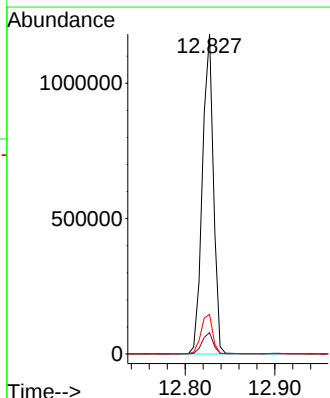
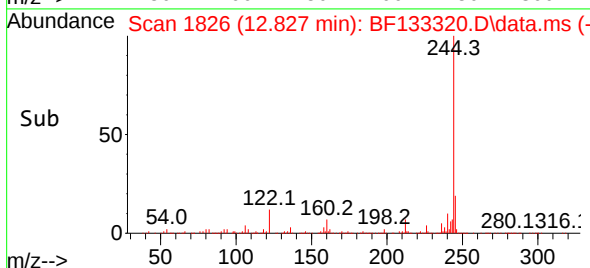
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023

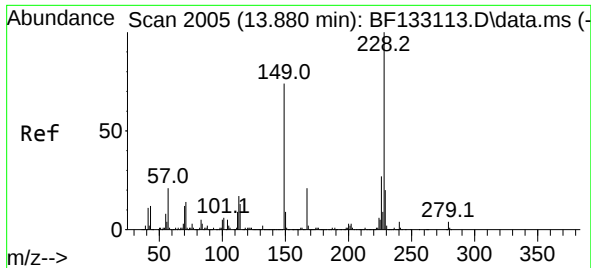


#79
Terphenyl-d14
Concen: 46.735 ng
RT: 12.827 min Scan# 1826
Delta R.T. -0.006 min
Lab File: BF133320.D
Acq: 09 May 2023 16:39



Tgt Ion:244 Resp: 1008994
Ion Ratio Lower Upper
244 100
212 6.7 5.1 7.7
122 12.3 8.6 13.0





#81
Benzo(a)anthracene
Concen: 27.182 ng
RT: 13.868 min Scan# 2009
Delta R.T. -0.000 min
Lab File: BF133320.D
Acq: 09 May 2023 16:39

Instrument :

BNA_F

ClientSampleId :

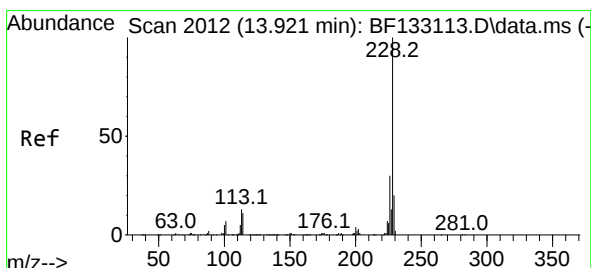
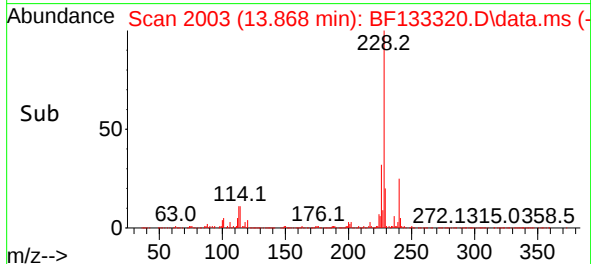
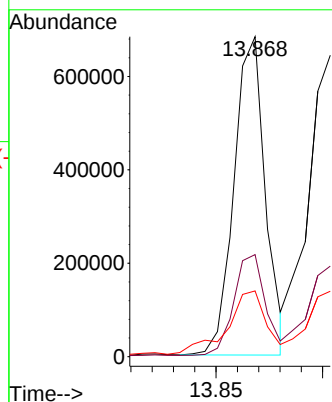
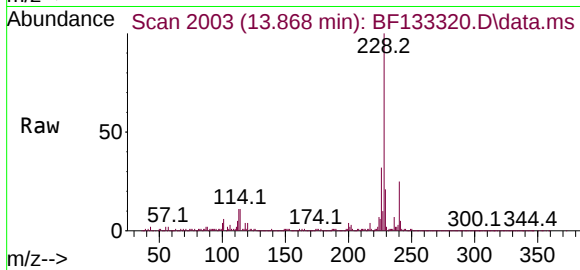
SU-02-050823

Tgt Ion:228 Resp: 696019
Ion Ratio Lower Upper
228 100
226 31.9 22.2 33.4
229 20.5 16.0 24.0

Manual Integrations

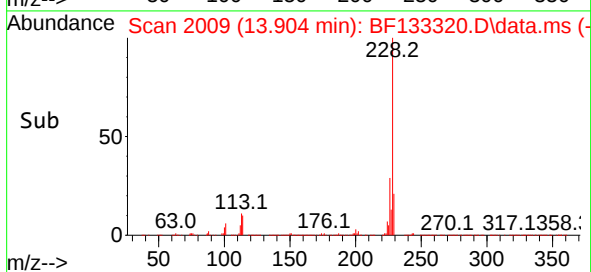
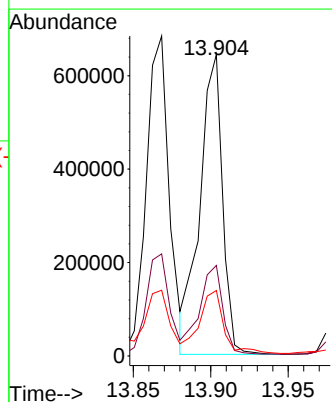
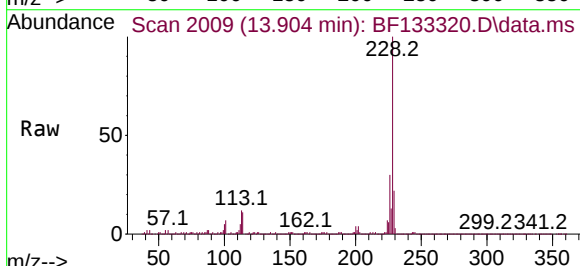
APPROVED

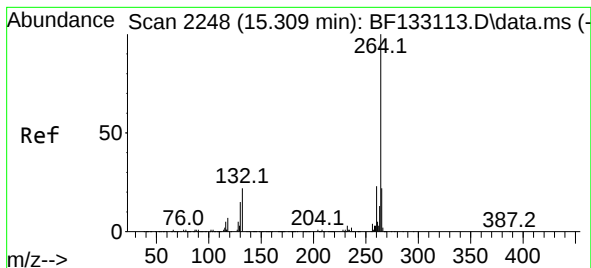
Reviewed By :Christian Giraldo 05/10/2023
Supervised By :Jagrut Upadhyay 05/10/2023



#83
Chrysene
Concen: 25.576 ng
RT: 13.904 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF133320.D
Acq: 09 May 2023 16:39

Tgt Ion:228 Resp: 654720
Ion Ratio Lower Upper
228 100
226 30.1 24.7 37.1
229 21.7 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.298 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF133320.D

Acq: 09 May 2023 16:39

Instrument :

BNA_F

ClientSampleId :

SU-02-050823

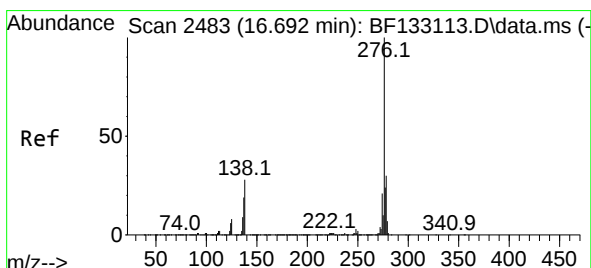
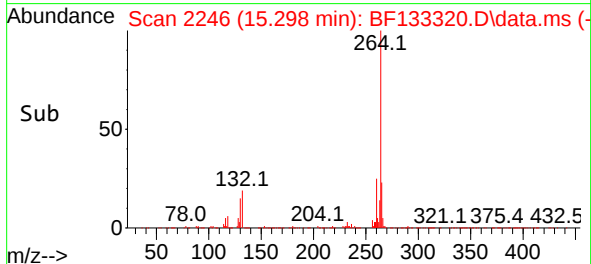
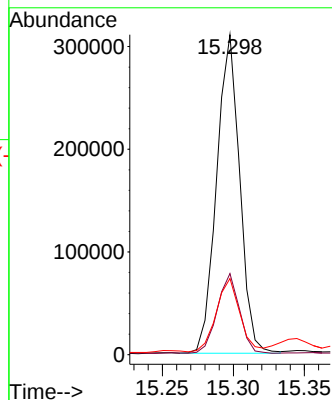
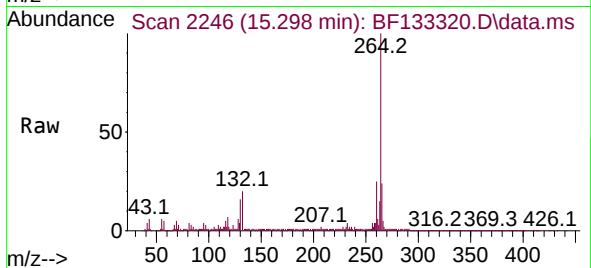
Tgt Ion:264	Resp:	350372
Ion Ratio	Lower	Upper
264	100	
260	25.3	18.8 28.2
265	23.8	17.0 25.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/10/2023

Supervised By :Jagrut Upadhyay 05/10/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 13.113 ng m

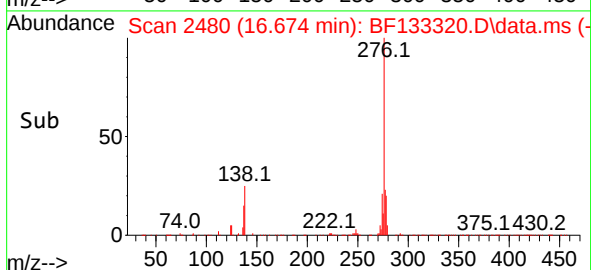
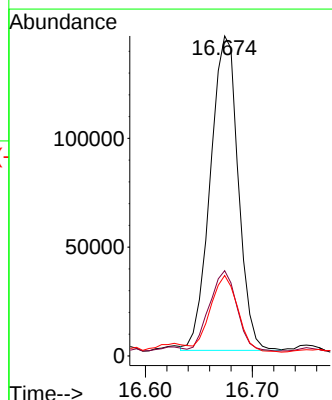
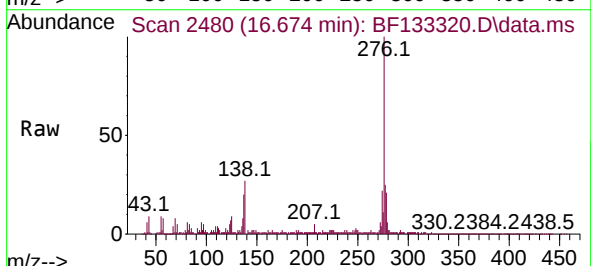
RT: 16.674 min Scan# 2480

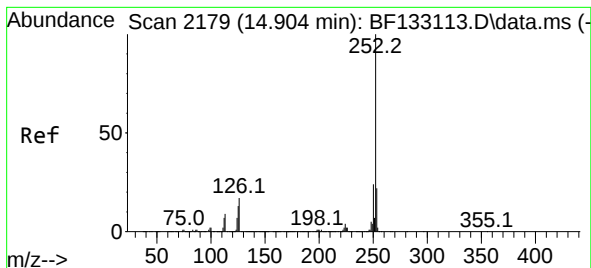
Delta R.T. -0.000 min

Lab File: BF133320.D

Acq: 09 May 2023 16:39

Tgt Ion:276	Resp:	261331
Ion Ratio	Lower	Upper
276	100	
138	5.9	25.5 38.3#
277	5.6	20.4 30.6#





#88

Benzo(b)fluoranthene

Concen: 35.064 ng m

RT: 14.892 min Scan# 2179

Delta R.T. -0.000 min

Lab File: BF133320.D

Acq: 09 May 2023 16:39

Instrument :

BNA_F

ClientSampleId :

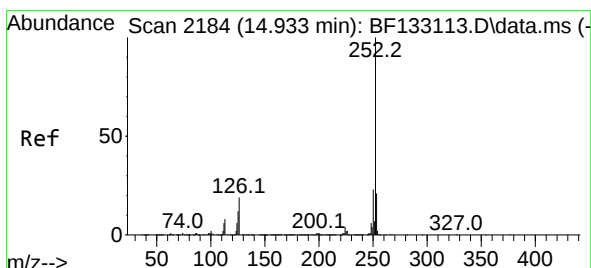
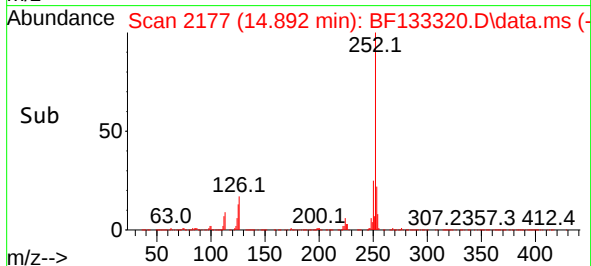
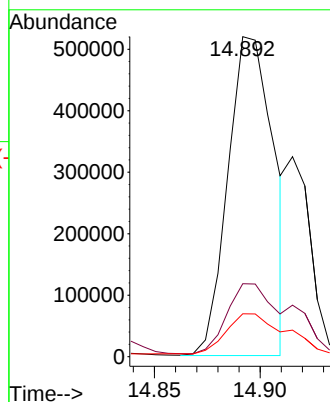
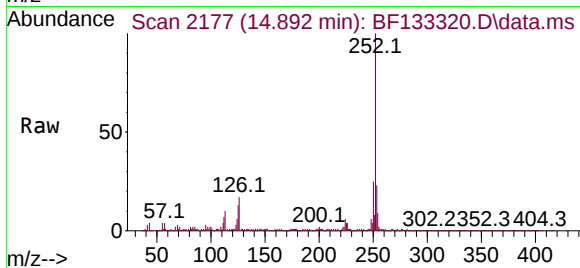
SU-02-050823

Tgt Ion:252 Resp: 781584
 Ion Ratio Lower Upper
 252 100
 253 22.8 17.6 26.4
 125 13.4 8.9 13.3

Manual Integrations

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Reviewed By :Christian Giraldo 05/10/2023
 Supervised By :Jagrut Upadhyay 05/10/2023



#89

Benzo(k)fluoranthene

Concen: 11.352 ng m

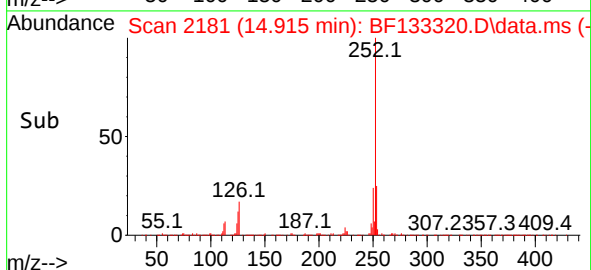
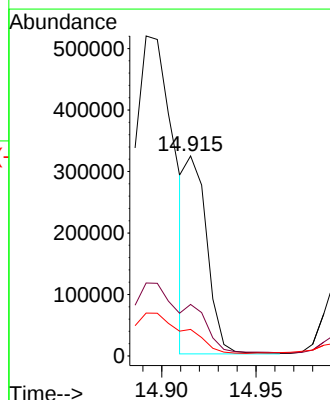
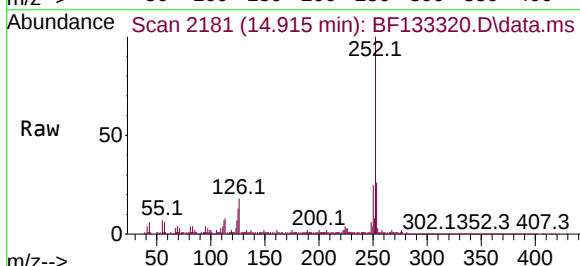
RT: 14.915 min Scan# 2181

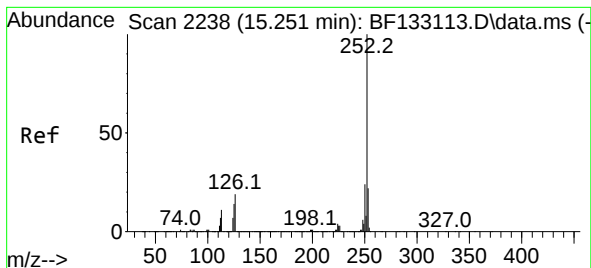
Delta R.T. -0.006 min

Lab File: BF133320.D

Acq: 09 May 2023 16:39

Tgt Ion:252 Resp: 250834
 Ion Ratio Lower Upper
 252 100
 253 25.8 17.7 26.5
 125 13.3 9.0 13.4





#90

Benzo(a)pyrene

Concen: 26.223 ng

RT: 15.239 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF133320.D

Acq: 09 May 2023 16:39

Instrument :

BNA_F

ClientSampleId :

SU-02-050823

Tgt Ion:252 Resp: 53203

Ion Ratio Lower Upper

252 100

253 23.5 17.7 26.5

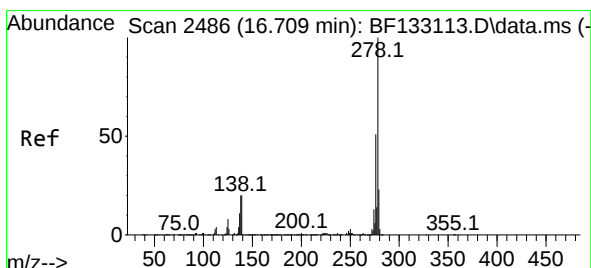
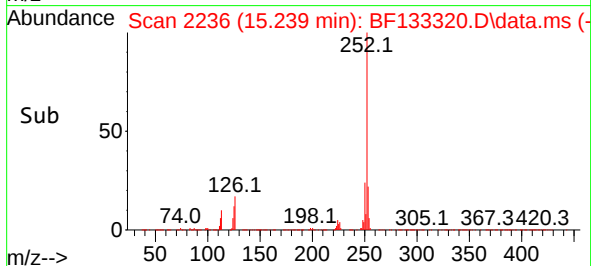
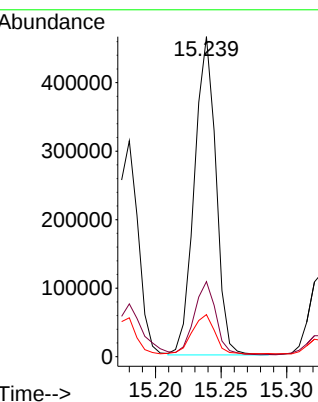
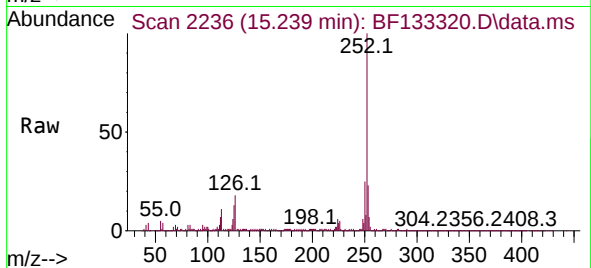
125 13.1 10.5 15.7

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/10/2023

Supervised By :Jagrut Upadhyay 05/10/2023



#91

Dibenzo(a,h)anthracene

Concen: 4.093 ng m

RT: 16.680 min Scan# 2481

Delta R.T. -0.012 min

Lab File: BF133320.D

Acq: 09 May 2023 16:39

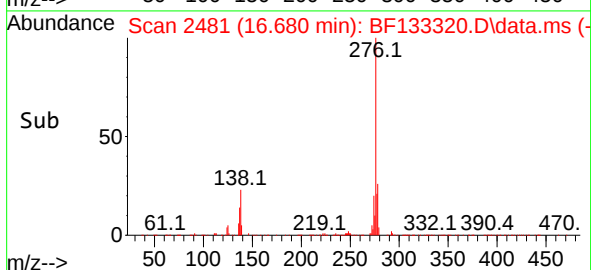
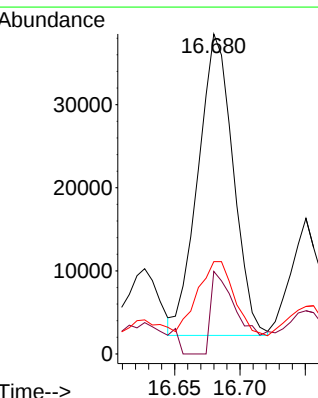
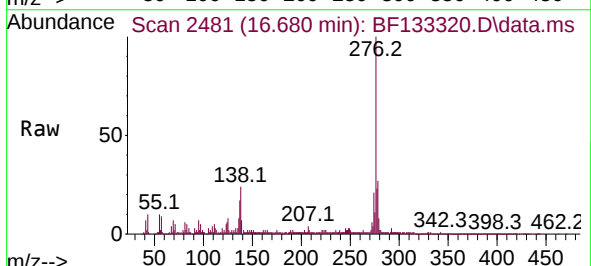
Tgt Ion:278 Resp: 68040

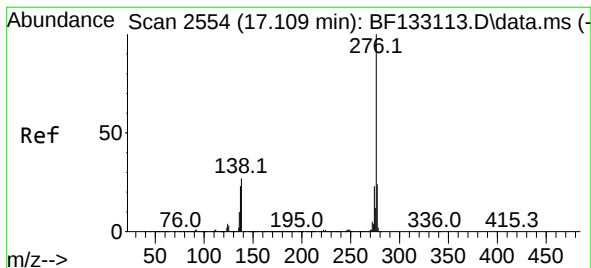
Ion Ratio Lower Upper

278 100

139 25.8 16.6 24.8#

279 28.8 18.8 28.2#





#92

Benzo(g,h,i)perylene

Concen: 14.188 ng

RT: 17.092 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF133320.D

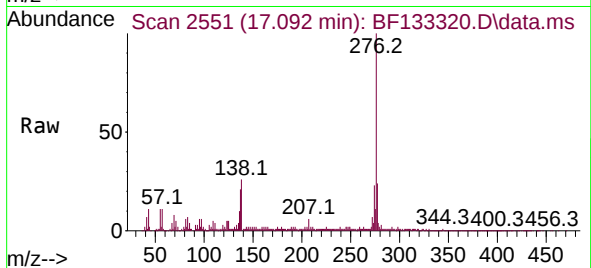
Acq: 09 May 2023 16:39

Instrument :

BNA_F

ClientSampleId :

SU-02-050823



Tgt Ion: 276 Resp: 232834

Ion Ratio Lower Upper

276 100

277 24.2 19.4 29.0

138 25.9 22.7 34.1

Manual Integrations

APPROVED

Reviewed By : Christian Giraldo 05/10/2023

Supervised By : Jagrut Upadhyay 05/10/2023

