

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110321\
 Data File : BF126033.D
 Acq On : 3 Nov 2021 22:32
 Operator : JU/CG
 Sample : M4470-04 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-2

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 11/04/2021
 Supervised By : mohammad ahmed 11/08/2021

Quant Time: Nov 04 10:13:05 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110321.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 03 17:21:25 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.851	152	153975	20.00	ng	0.00
21) Naphthalene-d8	8.133	136	577191	20.00	ng	# 0.00
39) Acenaphthene-d10	9.886	164	335200	20.00	ng	0.00
64) Phenanthrene-d10	11.369	188	525134	20.00	ng	0.00
76) Chrysene-d12	14.010	240	342629	20.00	ng	# 0.00
86) Perylene-d12	15.468	264	345312	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.451	112	174571	19.47	ng	-0.01
7) Phenol-d6	6.463	99	234669	18.57	ng	-0.02
23) Nitrobenzene-d5	7.404	82	161718	13.21	ng	-0.02
42) 2,4,6-Tribromophenol	10.669	330	51870	13.50	ng	-0.01
45) 2-Fluorobiphenyl	9.204	172	330497	13.32	ng	-0.01
79) Terphenyl-d14	12.951	244	260518	12.26	ng	-0.01
Target Compounds						Qvalue
52) Acenaphthene	9.916	154	54141	2.78	ng	99
55) Dibenzofuran	10.086	168	65817	2.25	ng	94
58) Fluorene	10.427	166	89875	3.82	ng	99
71) Phenanthrene	11.398	178	1455956	51.13	ng	97
72) Anthracene	11.445	178	312670	11.00	ng	99
73) Carbazole	11.592	167	96549	3.66	ng	97
75) Fluoranthene	12.586	202	1686000	53.16	ng	95
78) Pyrene	12.815	202	1277661	46.50	ng	96
81) Benzo(a)anthracene	13.998	228	762936	32.41	ng	97
83) Chrysene	14.033	228	618803	28.25	ng	97
87) Indeno(1,2,3-cd)pyrene	16.921	276	230230	11.26	ng	# 83
88) Benzo(b)fluoranthene	15.045	252	718352m	31.98	ng	
89) Benzo(k)fluoranthene	15.068	252	239587m	11.00	ng	
90) Benzo(a)pyrene	15.409	252	475775m	26.89	ng	
91) Dibenzo(a,h)anthracene	16.927	278	71294m	4.25	ng	
92) Benzo(g,h,i)perylene	17.350	276	174186	10.82	ng	# 81

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

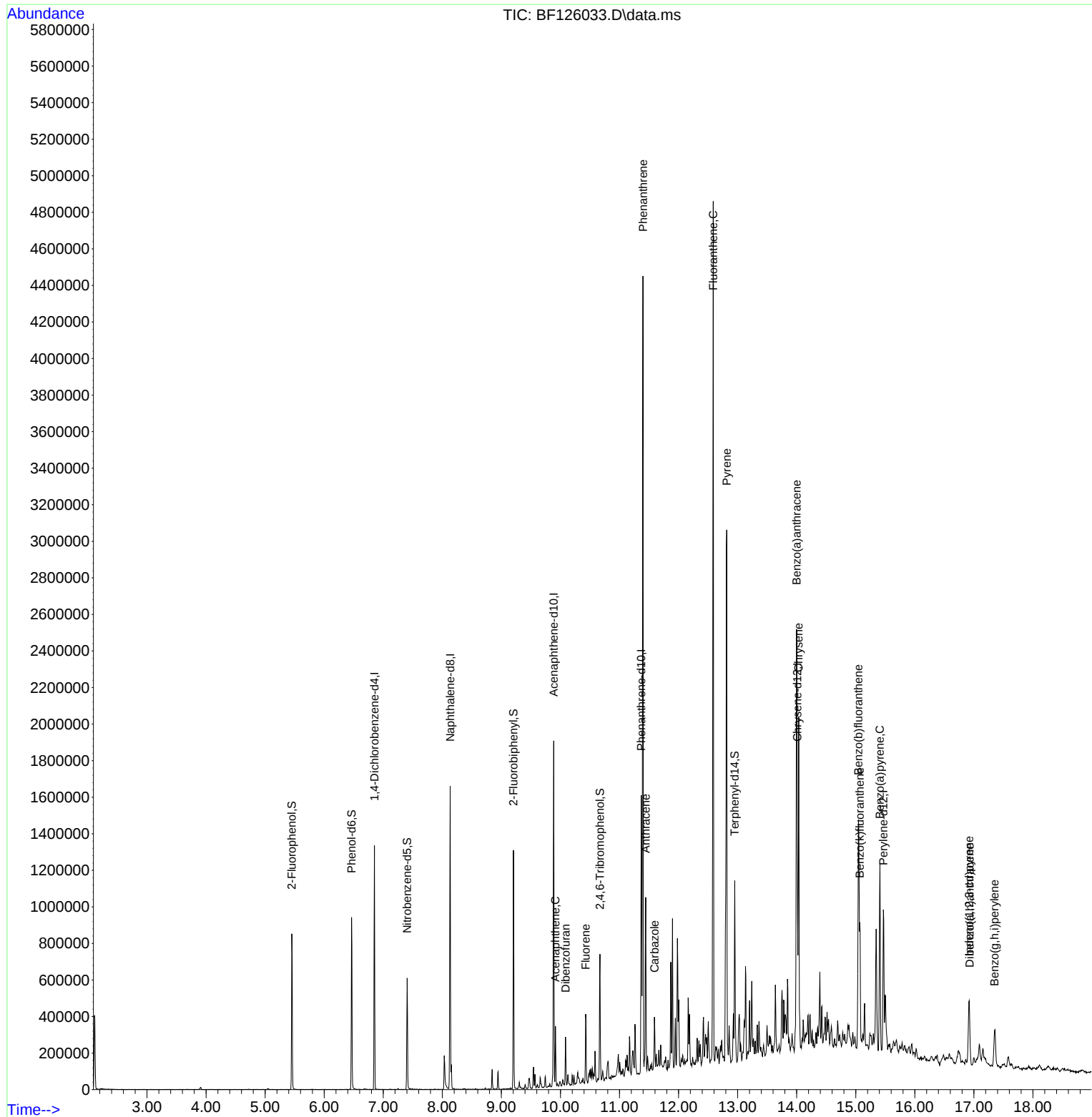
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110321\
Data File : BF126033.D
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ALS Vial : 20 Sample Multiplier: 1

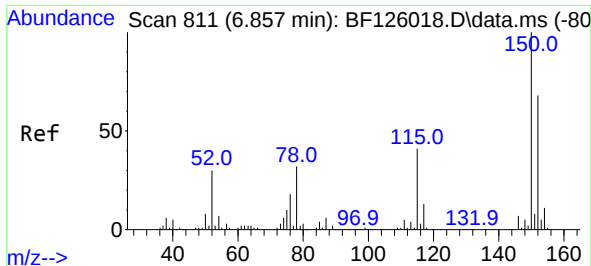
Instrument :
BNA_F
ClientSampleId :
SP-2

Quant Time: Nov 04 10:13:05 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110321.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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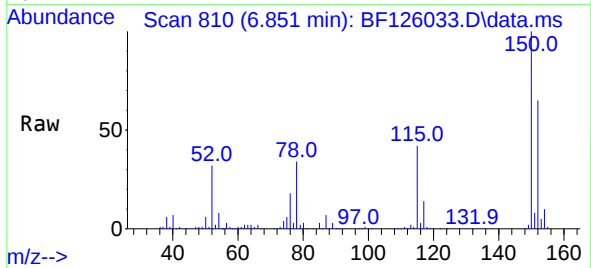
Reviewed By :Christian Giraldo 11/04/2021
Supervised By :mohammad ahmed 11/08/2021





#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.851 min Scan# 811
Delta R.T. -0.006 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

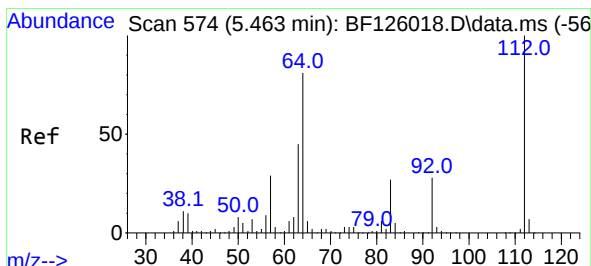
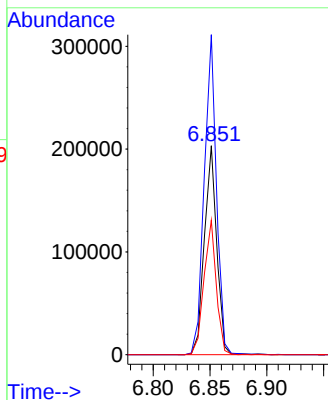
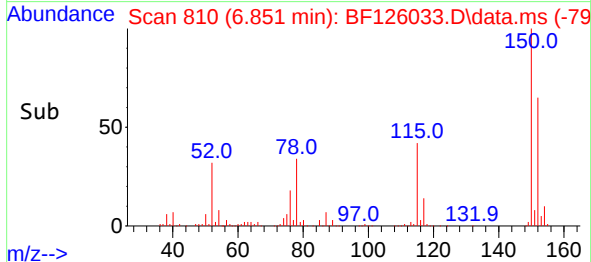
Instrument :
BNA_F
ClientSampleId :
SP-2



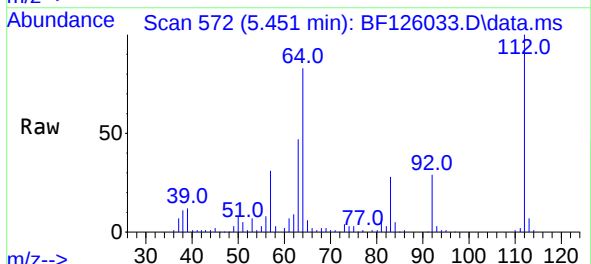
Tgt Ion:152 Resp: 153975
Ion Ratio Lower Upper
152 100
150 153.1 117.6 176.4
115 64.3 47.1 70.7

Manual Integrations
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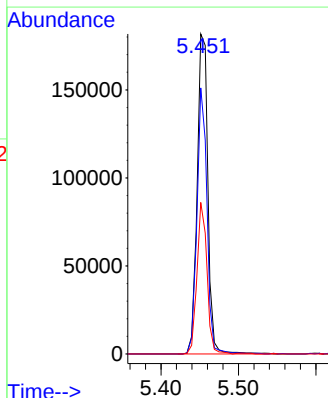
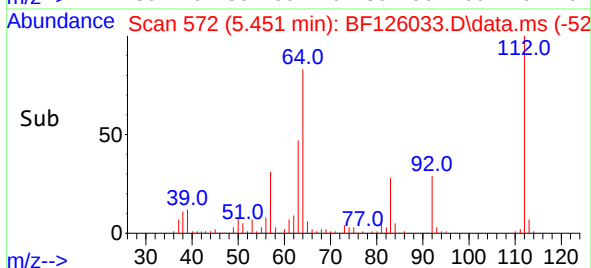
Reviewed By :Christian Giraldo 11/04/2021
Supervised By :mohammad ahmed 11/08/2021

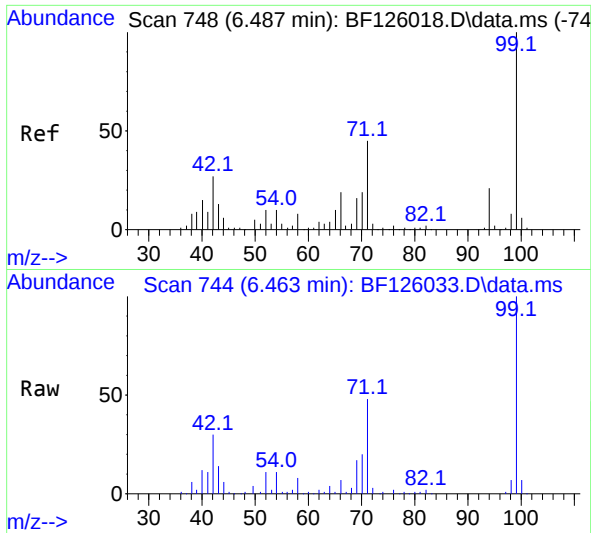


#5
2-Fluorophenol
Concen: 19.47 ng
RT: 5.451 min Scan# 572
Delta R.T. -0.012 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32



Tgt Ion:112 Resp: 174571
Ion Ratio Lower Upper
112 100
64 83.1 44.2 66.2#
63 47.4 26.2 39.2#





#7

Phenol-d6

Concen: 18.57 ng

RT: 6.463 min Scan# 74

Delta R.T. -0.024 min

Lab File: BF126033.D

Acq: 3 Nov 2021 22:32

Instrument :

BNA_F

ClientSampleId :

SP-2

Tgt Ion: 99 Resp: 23466

Ion Ratio Lower Upper

99 100

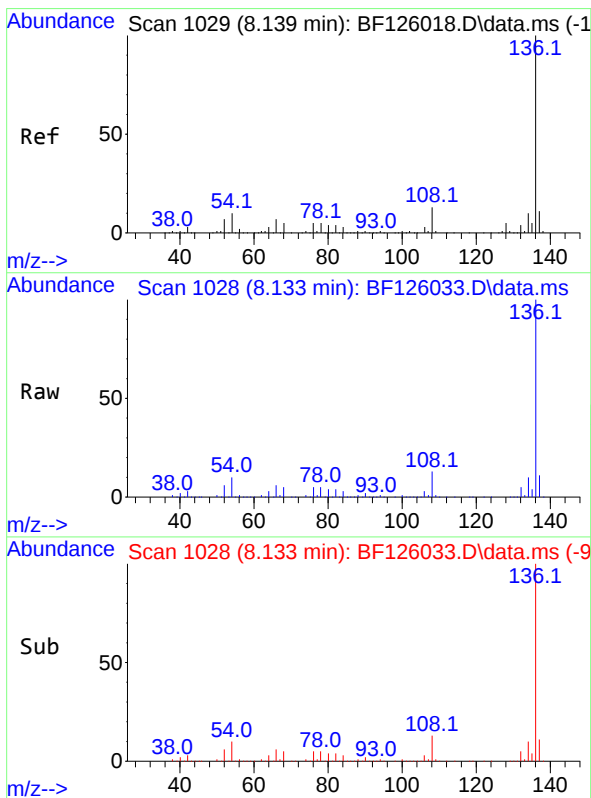
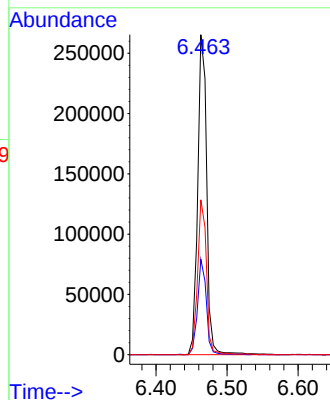
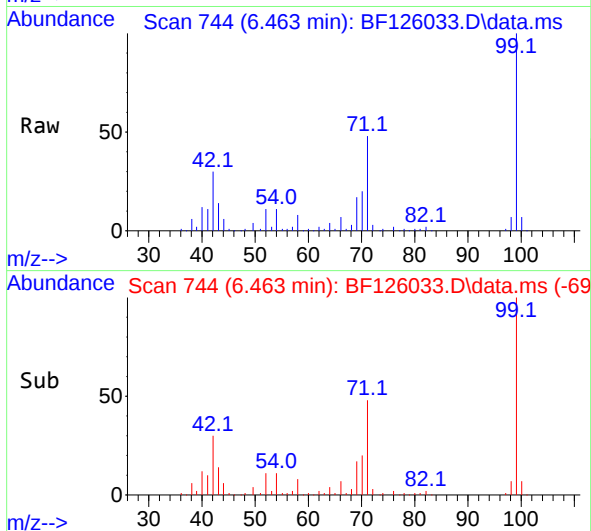
42 29.8 23.5 35.3

71 48.4 25.6 38.4

Manual Integrations

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.133 min Scan# 1028

Delta R.T. -0.006 min

Lab File: BF126033.D

Acq: 3 Nov 2021 22:32

Tgt Ion:136 Resp: 577191

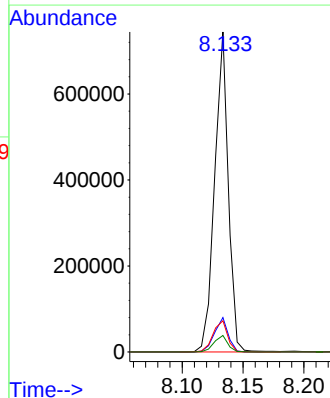
Ion Ratio Lower Upper

136 100

137 10.8 9.8 14.6

54 9.8 6.4 9.6#

68 5.2 3.3 4.9#





#23

Nitrobenzene-d5

Concen: 13.21 ng

RT: 7.404 min Scan# 907

Delta R.T. -0.018 min

Lab File: BF126033.D

Acq: 3 Nov 2021 22:32

Instrument :

BNA_F

ClientSampleId :

SP-2

Tgt Ion: 82 Resp: 161718

Ion Ratio Lower Upper

82 100

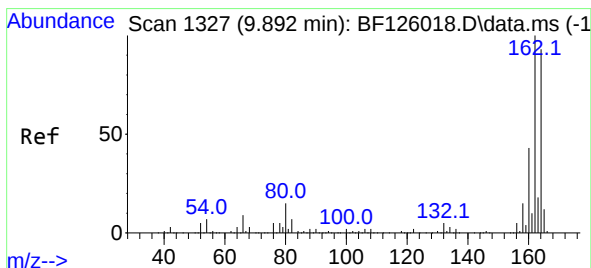
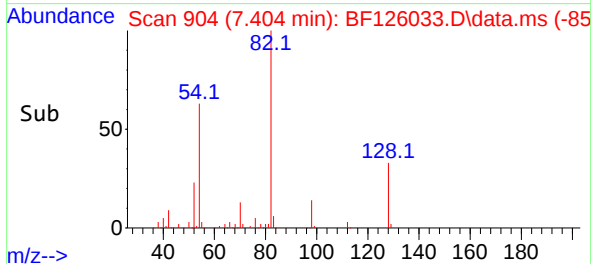
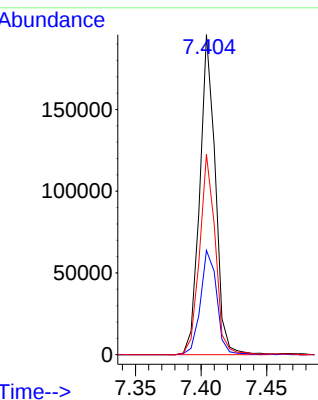
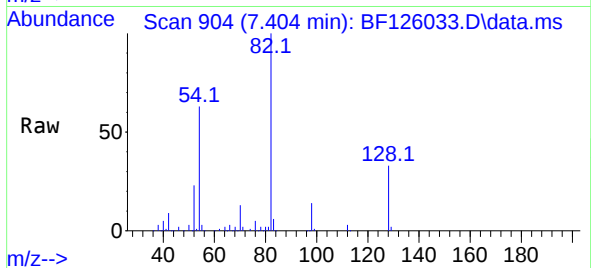
128 32.6 40.6 60.8

54 62.7 49.6 74.4

Manual Integrations

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#39

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.886 min Scan# 1326

Delta R.T. -0.006 min

Lab File: BF126033.D

Acq: 3 Nov 2021 22:32

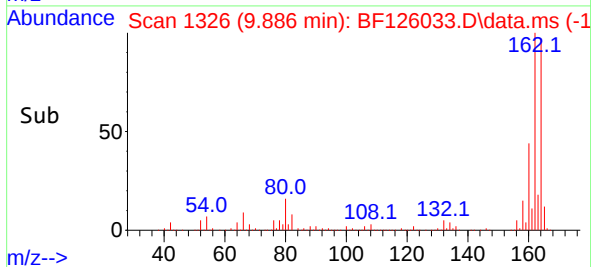
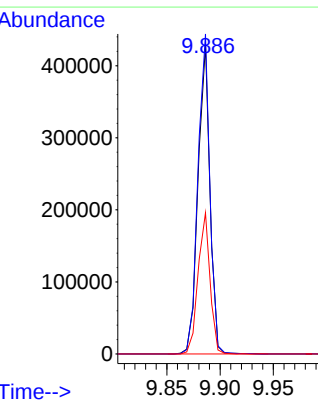
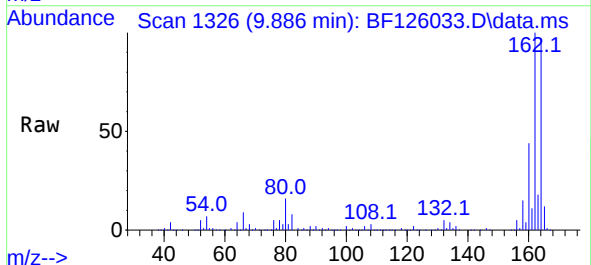
Tgt Ion:164 Resp: 335200

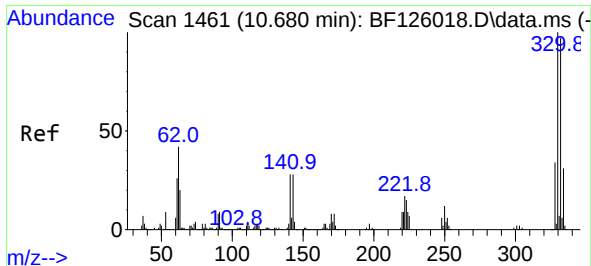
Ion Ratio Lower Upper

164 100

162 103.6 81.3 121.9

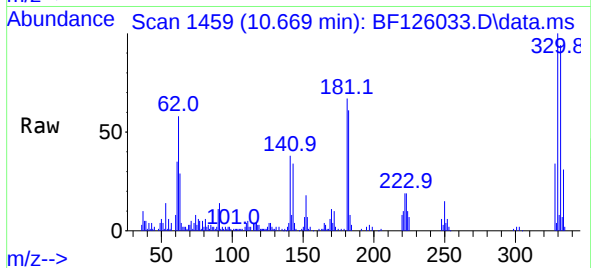
160 45.7 38.0 57.0





#42
2,4,6-Tribromophenol
Concen: 13.50 ng
RT: 10.669 min Scan# 1461
Delta R.T. -0.012 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

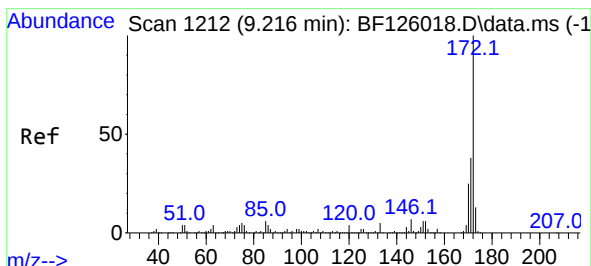
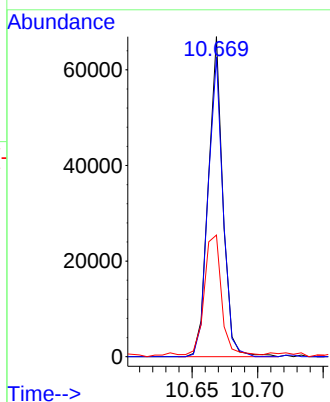
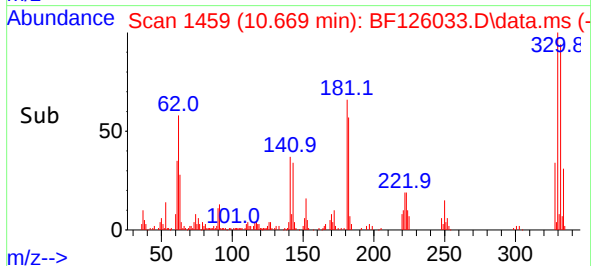
Instrument :
BNA_F
ClientSampleId :
SP-2



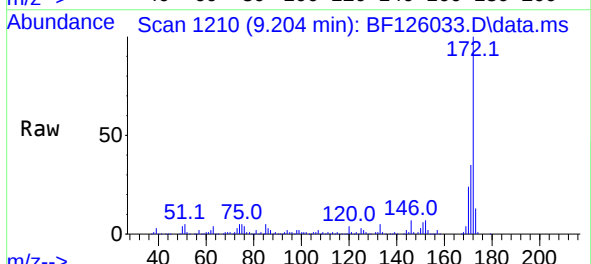
Tgt Ion:330 Resp: 51870
Ion Ratio Lower Upper
330 100
332 95.6 76.2 114.4
141 47.9 44.6 66.8

Manual Integrations
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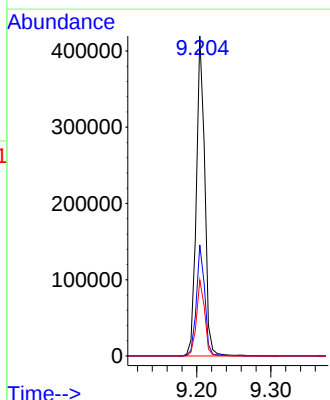
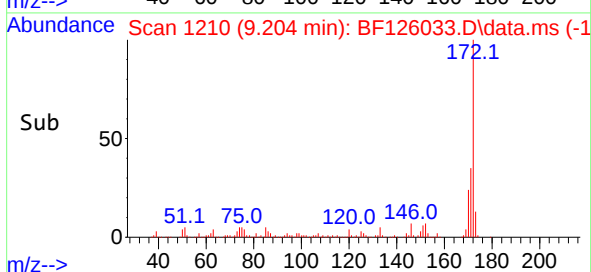
Reviewed By :Christian Giraldo 11/04/2021
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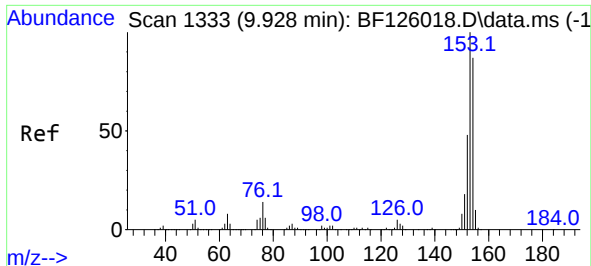


#45
2-Fluorobiphenyl
Concen: 13.32 ng
RT: 9.204 min Scan# 1210
Delta R.T. -0.012 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32



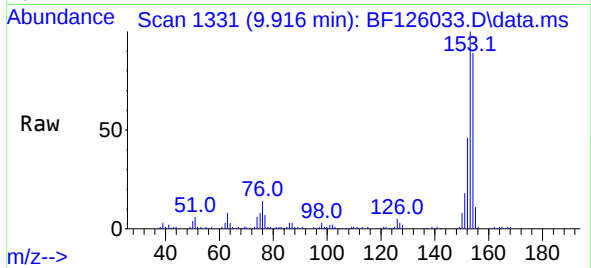
Tgt Ion:172 Resp: 330497
Ion Ratio Lower Upper
172 100
171 34.7 26.5 39.7
170 23.8 18.8 28.2





#52
Acenaphthene
Concen: 2.78 ng
RT: 9.916 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

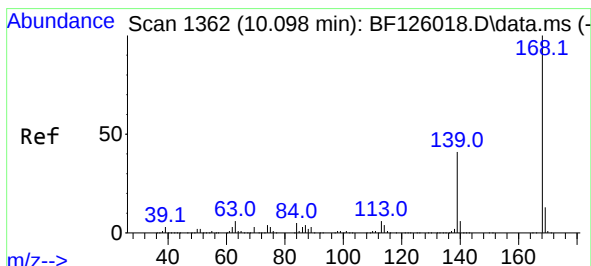
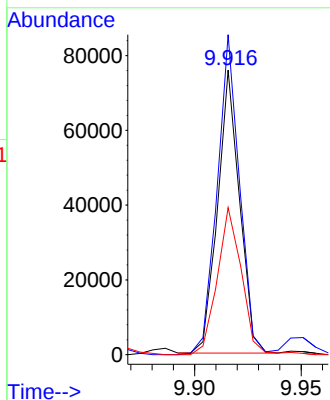
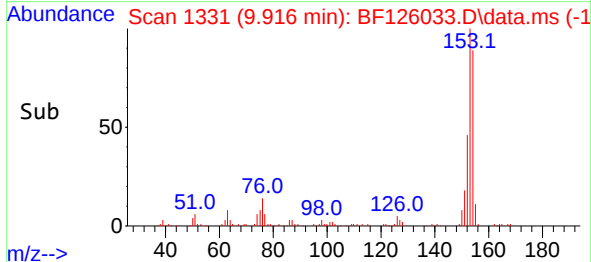
Instrument :
BNA_F
ClientSampleId :
SP-2



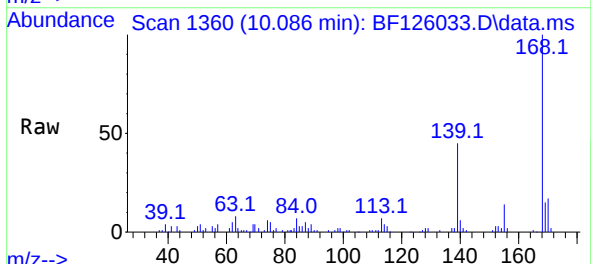
Tgt Ion:154 Resp: 5414
Ion Ratio Lower Upper
154 100
153 112.4 89.4 134.2
152 51.6 40.5 60.7

Manual Integrations
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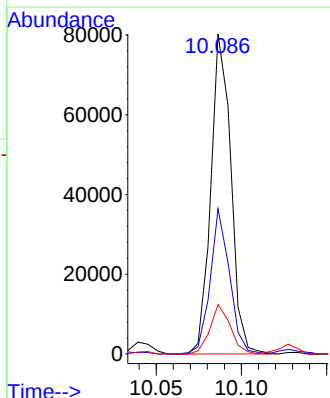
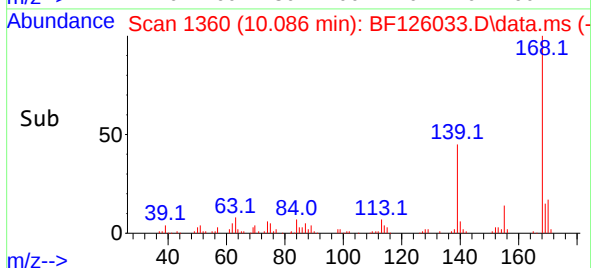
Reviewed By :Christian Giraldo 11/04/2021
Supervised By :mohammad ahmed 11/08/2021

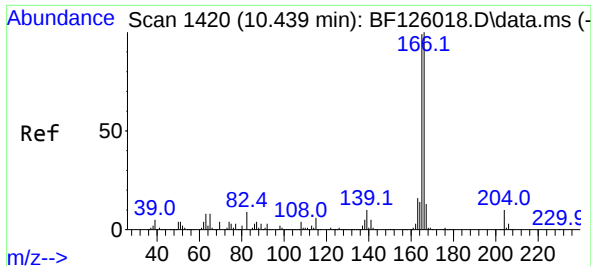


#55
Dibenzofuran
Concen: 2.25 ng
RT: 10.086 min Scan# 1360
Delta R.T. -0.012 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32



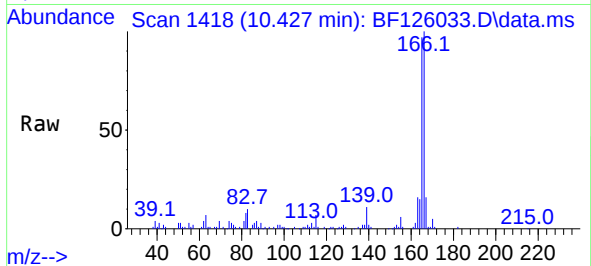
Tgt Ion:168 Resp: 65817
Ion Ratio Lower Upper
168 100
139 45.4 32.7 49.1
169 15.5 11.2 16.8





#58
Fluorene
Concen: 3.82 ng
RT: 10.427 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

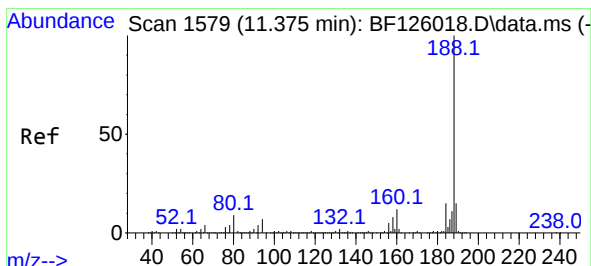
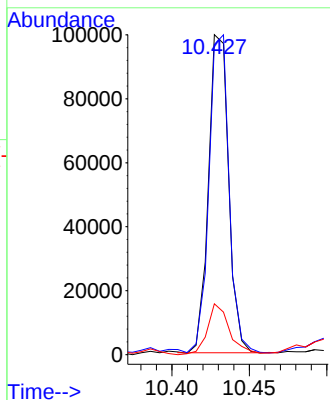
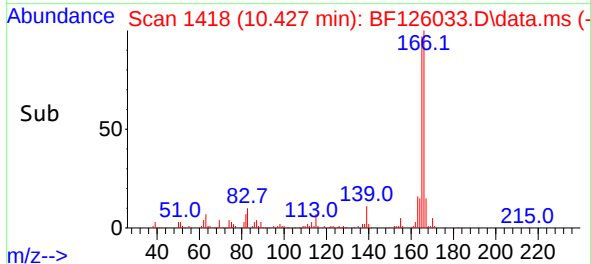
Instrument :
BNA_F
ClientSampleId :
SP-2



Tgt Ion:166 Resp: 89875
Ion Ratio Lower Upper
166 100
165 96.9 78.1 117.1
167 15.9 11.1 16.7

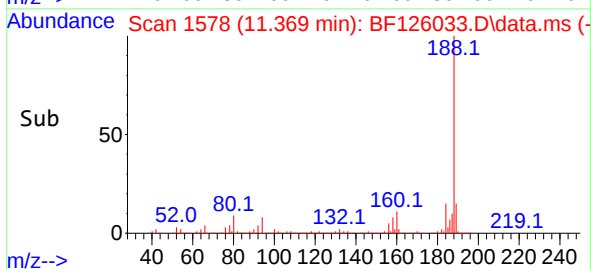
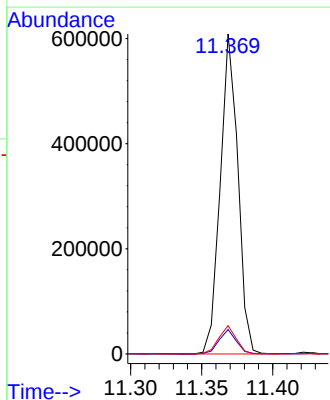
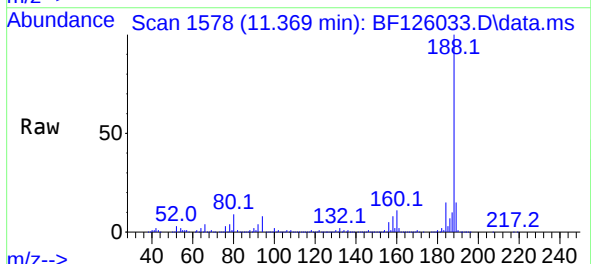
Manual Integrations
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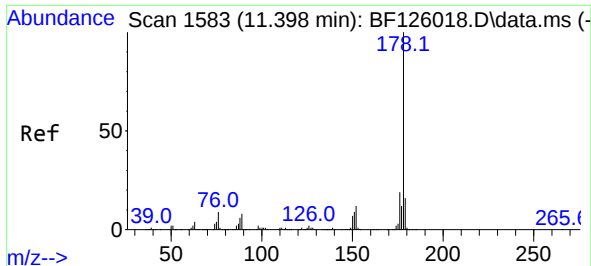
Reviewed By :Christian Giraldo 11/04/2021
Supervised By :mohammad ahmed 11/08/2021



#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.369 min Scan# 1578
Delta R.T. -0.006 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

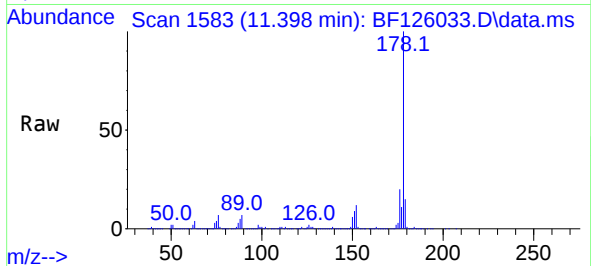
Tgt Ion:188 Resp: 525134
Ion Ratio Lower Upper
188 100
94 7.6 6.7 10.1
80 8.9 7.5 11.3





#71
Phenanthrene
Concen: 51.13 ng
RT: 11.398 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

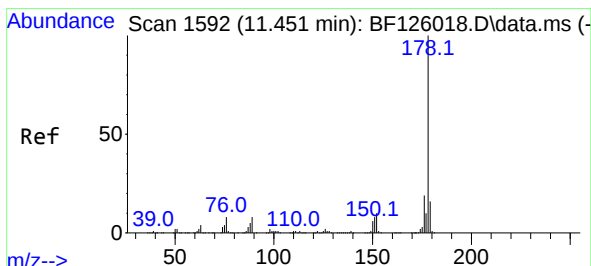
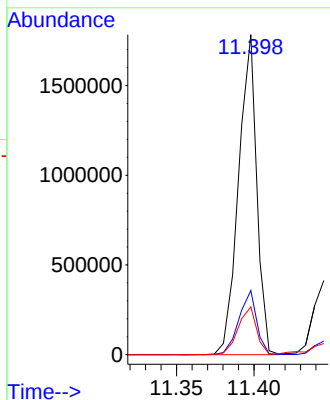
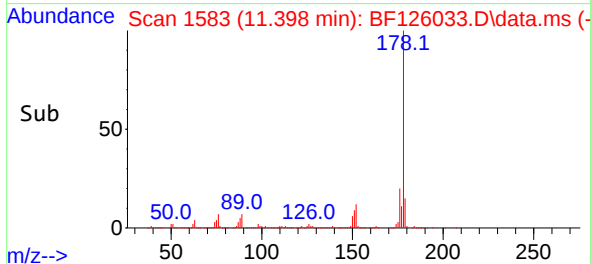
Instrument :
BNA_F
ClientSampleId :
SP-2



Tgt Ion:178 Resp: 1455950
Ion Ratio Lower Upper
178 100
176 20.1 14.7 22.1
179 14.9 11.5 17.3

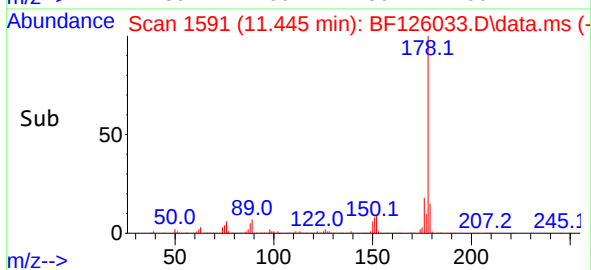
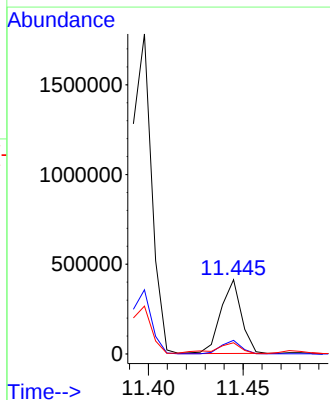
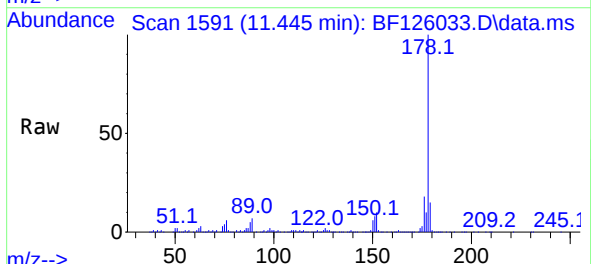
Manual Integrations
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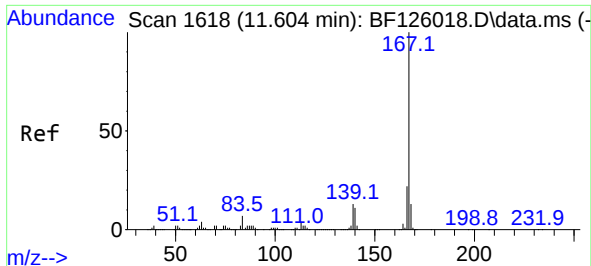
Reviewed By :Christian Giraldo 11/04/2021
Supervised By :mohammad ahmed 11/08/2021



#72
Anthracene
Concen: 11.00 ng
RT: 11.445 min Scan# 1591
Delta R.T. -0.006 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

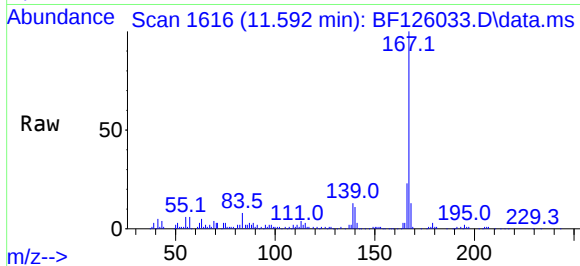
Tgt Ion:178 Resp: 312670
Ion Ratio Lower Upper
178 100
176 18.4 14.3 21.5
179 15.2 12.2 18.4





#73
 Carbazole
 Concen: 3.66 ng
 RT: 11.592 min Scan# 1616
 Delta R.T. -0.012 min
 Lab File: BF126033.D
 Acq: 3 Nov 2021 22:32

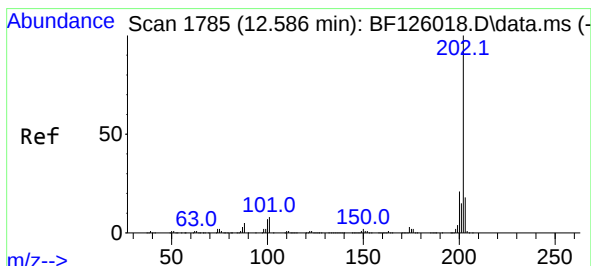
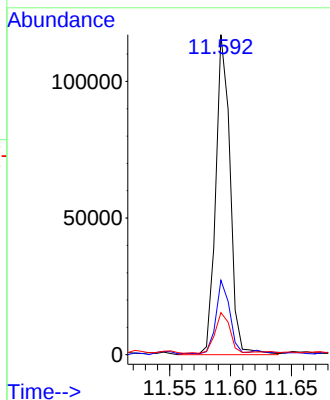
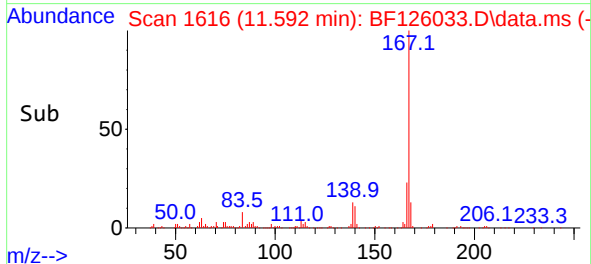
Instrument :
 BNA_F
 ClientSampleId :
 SP-2



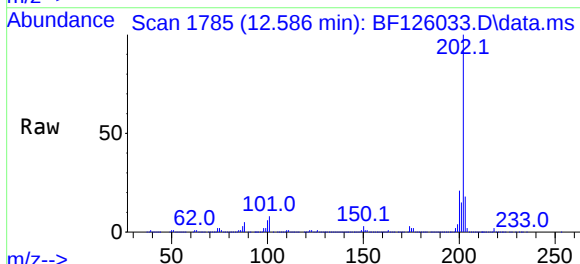
Tgt Ion:167 Resp: 96549
 Ion Ratio Lower Upper
 167 100
 166 23.3 17.4 26.0
 139 13.2 11.0 16.4

Manual Integrations
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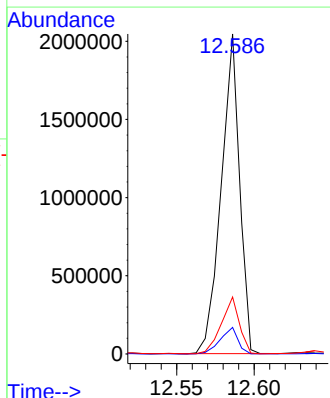
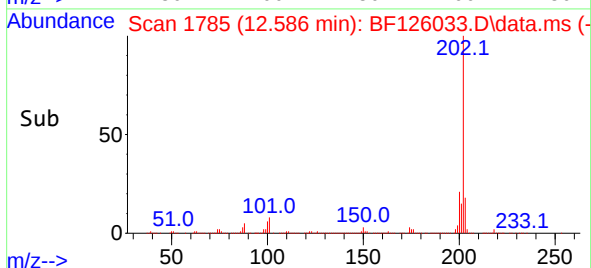
Reviewed By :Christian Giraldo 11/04/2021
 Supervised By :mohammad ahmed 11/08/2021

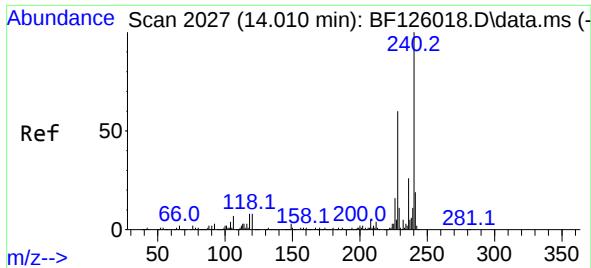


#75
 Fluoranthene
 Concen: 53.16 ng
 RT: 12.586 min Scan# 1785
 Delta R.T. 0.000 min
 Lab File: BF126033.D
 Acq: 3 Nov 2021 22:32



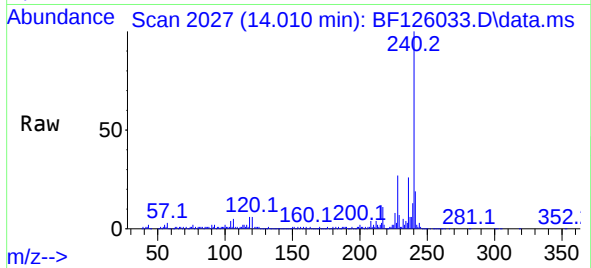
Tgt Ion:202 Resp: 1686000
 Ion Ratio Lower Upper
 202 100
 101 8.3 0.0 30.7
 203 17.8 0.0 36.3





#76
Chrysene-d12
Concen: 20.00 ng
RT: 14.010 min Scan# 2027
Delta R.T. -0.000 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

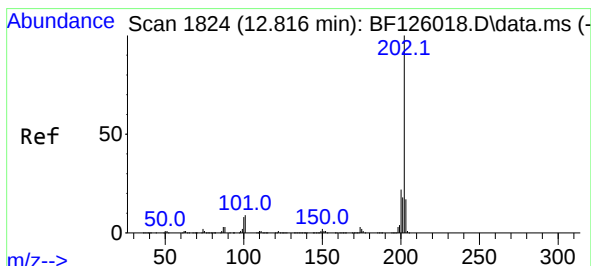
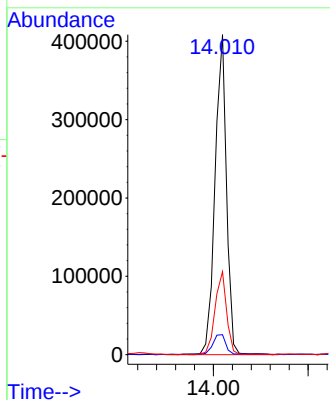
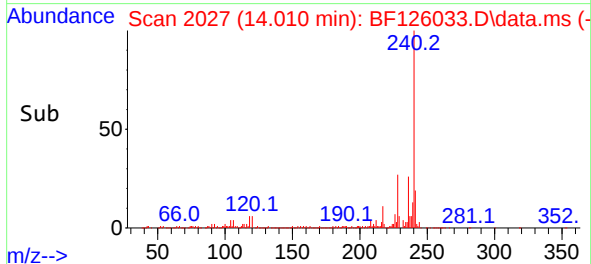
Instrument :
BNA_F
ClientSampleId :
SP-2



Tgt Ion:240 Resp: 342629
Ion Ratio Lower Upper
240 100
120 6.2 10.8 16.2
236 26.0 21.6 32.4

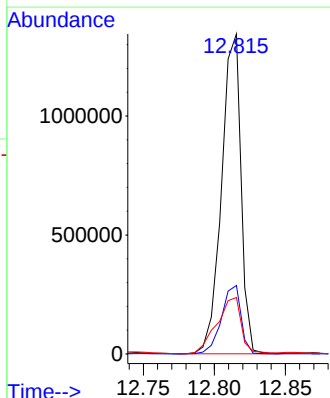
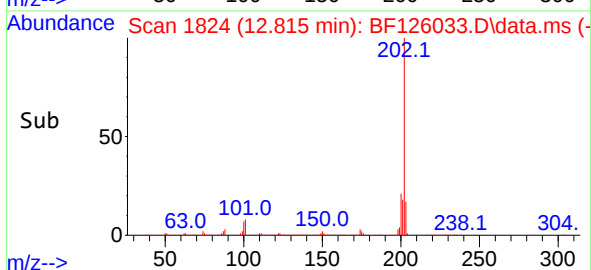
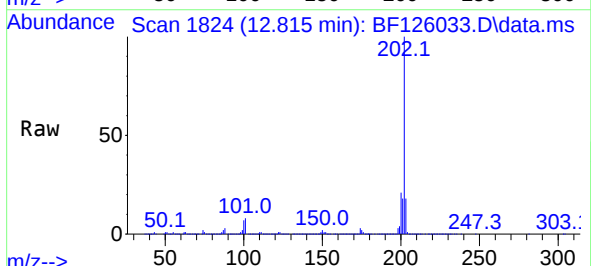
Manual Integrations
APPROVED

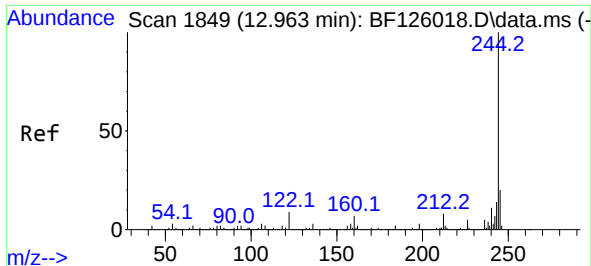
Reviewed By :Christian Giraldo 11/04/2021
Supervised By :mohammad ahmed 11/08/2021



#78
Pyrene
Concen: 46.50 ng
RT: 12.815 min Scan# 1824
Delta R.T. -0.001 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

Tgt Ion:202 Resp: 1277661
Ion Ratio Lower Upper
202 100
200 21.4 15.3 22.9
203 17.7 13.4 20.0





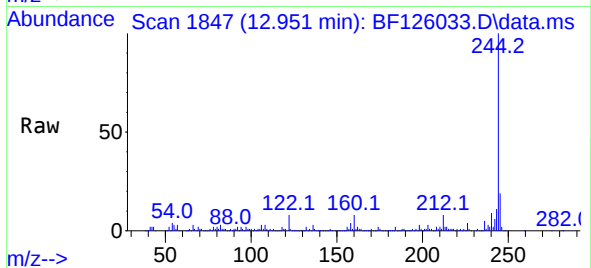
#79
 Terphenyl-d14
 Concen: 12.26 ng
 RT: 12.951 min Scan# 1847
 Delta R.T. -0.012 min
 Lab File: BF126033.D
 Acq: 3 Nov 2021 22:32

Instrument :

BNA_F

ClientSampleId :

SP-2

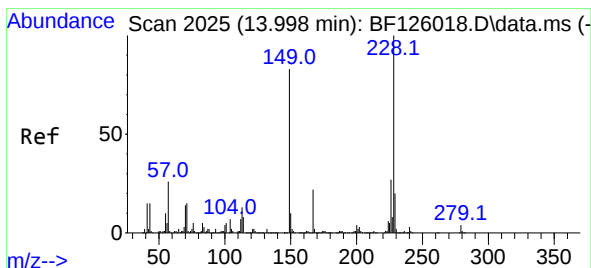
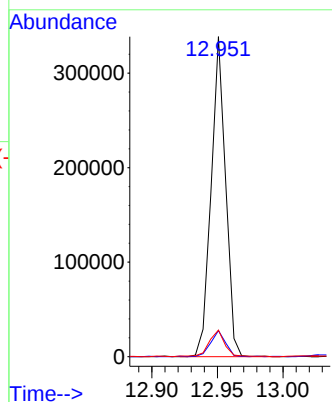
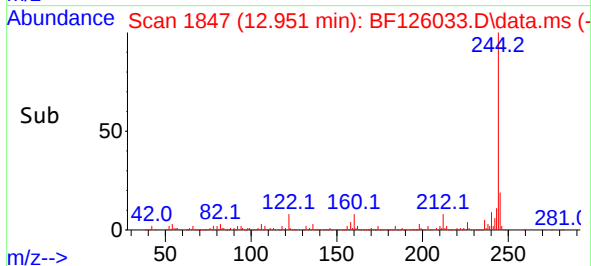


Tgt Ion:244 Resp: 260518
 Ion Ratio Lower Upper
 244 100
 212 8.1 5.9 8.9
 122 8.3 9.0 13.4

Manual Integrations

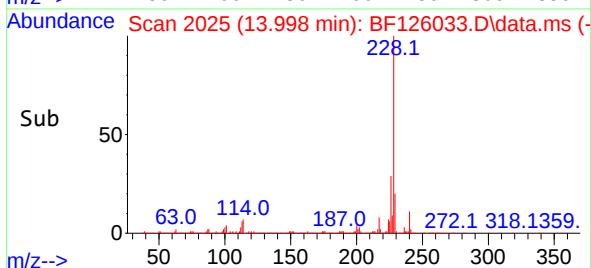
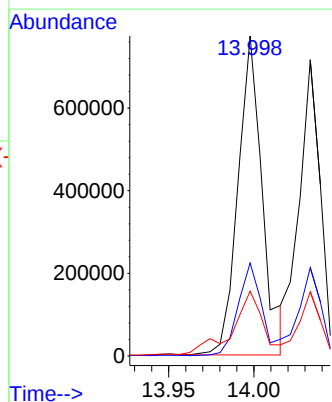
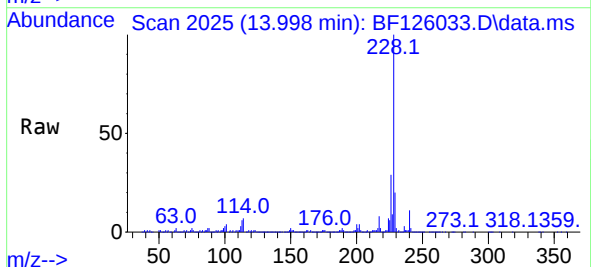
APPROVED

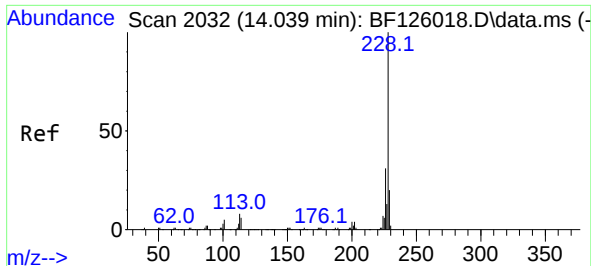
Reviewed By :Christian Giraldo 11/04/2021
 Supervised By :mohammad ahmed 11/08/2021



#81
 Benzo(a)anthracene
 Concen: 32.41 ng
 RT: 13.998 min Scan# 2025
 Delta R.T. -0.000 min
 Lab File: BF126033.D
 Acq: 3 Nov 2021 22:32

Tgt Ion:228 Resp: 762936
 Ion Ratio Lower Upper
 228 100
 226 29.1 21.6 32.4
 229 20.3 15.6 23.4





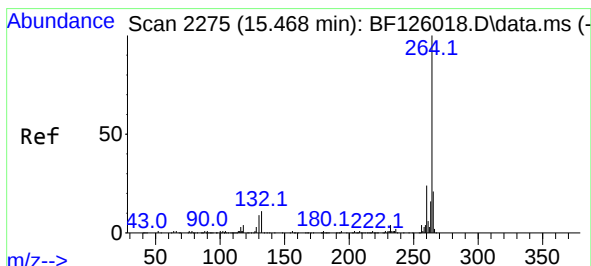
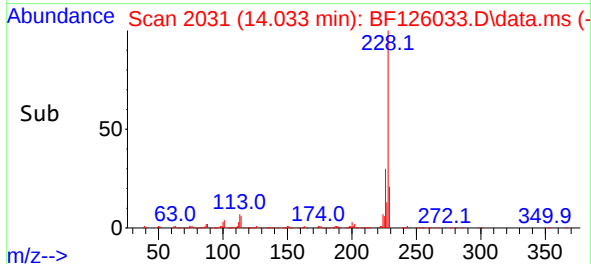
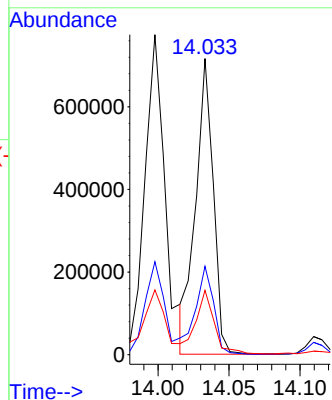
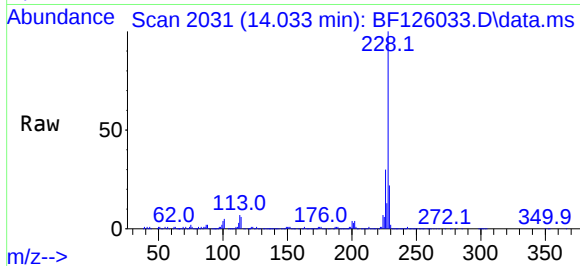
#83
Chrysene
Concen: 28.25 ng
RT: 14.033 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

Instrument :
BNA_F
ClientSampleId :
SP-2

Tgt Ion:228 Resp: 61880
Ion Ratio Lower Upper
228 100
226 29.8 22.6 34.0
229 21.7 15.9 23.9

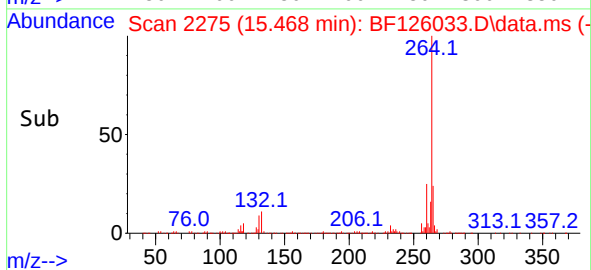
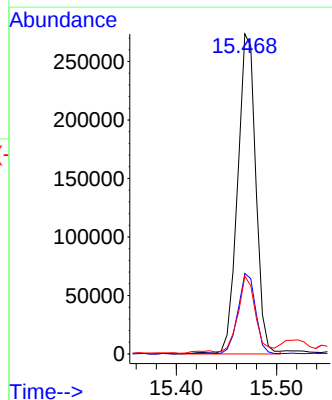
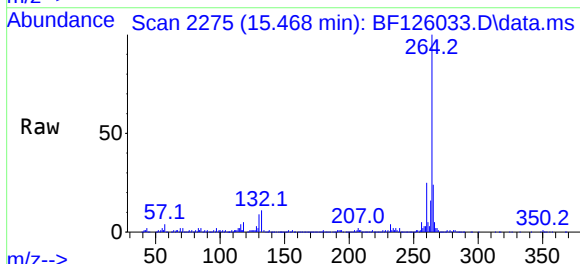
Manual Integrations
APPROVED

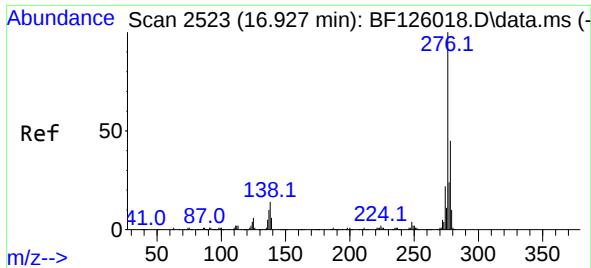
Reviewed By :Christian Giraldo 11/04/2021
Supervised By :mohammad ahmed 11/08/2021



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.468 min Scan# 2275
Delta R.T. 0.000 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

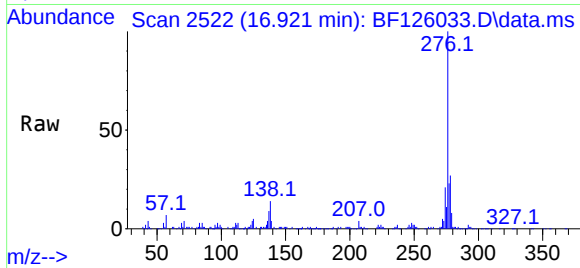
Tgt Ion:264 Resp: 345312
Ion Ratio Lower Upper
264 100
260 25.2 19.6 29.4
265 24.3 17.2 25.8





#87
Indeno(1,2,3-cd)pyrene
Concen: 11.26 ng
RT: 16.921 min Scan# 2523
Delta R.T. -0.006 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

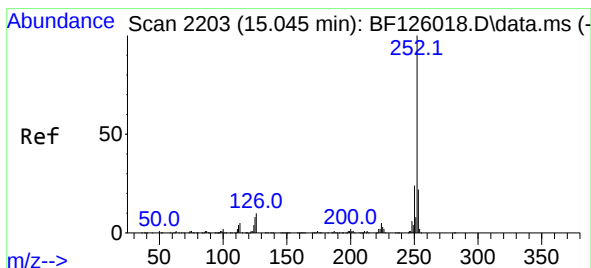
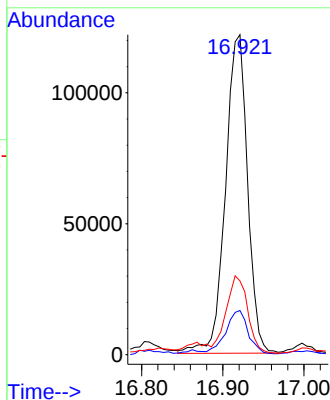
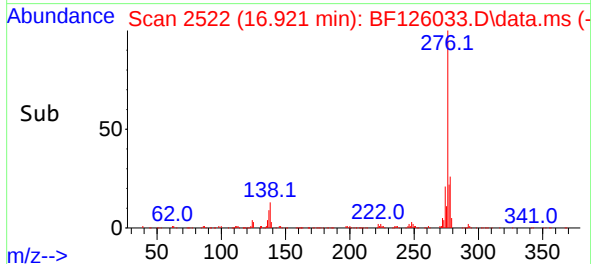
Instrument :
BNA_F
ClientSampleId :
SP-2



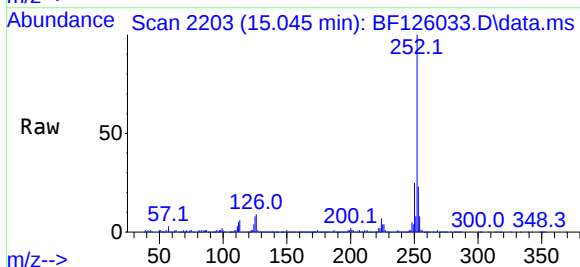
Tgt Ion:276 Resp: 230230
Ion Ratio Lower Upper
276 100
138 14.0 24.1 36.1
277 23.8 18.8 28.2

Manual Integrations
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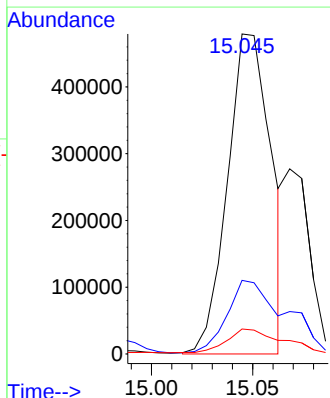
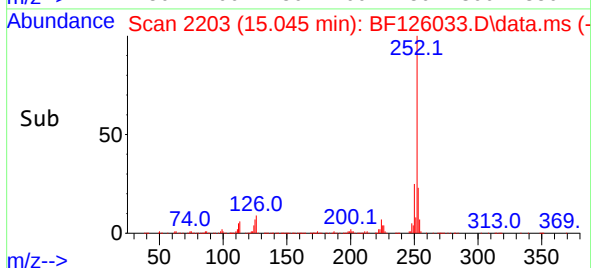
Reviewed By :Christian Giraldo 11/04/2021
Supervised By :mohammad ahmed 11/08/2021

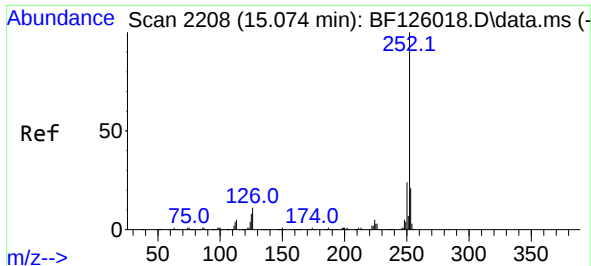


#88
Benzo(b)fluoranthene
Concen: 31.98 ng m
RT: 15.045 min Scan# 2203
Delta R.T. -0.000 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32



Tgt Ion:252 Resp: 718352
Ion Ratio Lower Upper
252 100
253 23.0 16.8 25.2
125 7.8 9.8 14.8#





#89

Benzo(k)fluoranthene

Concen: 11.00 ng m

RT: 15.068 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF126033.D

Acq: 3 Nov 2021 22:32

Instrument :

BNA_F

ClientSampleId :

SP-2

Tgt Ion:252 Resp: 23958

Ion Ratio Lower Upper

252 100

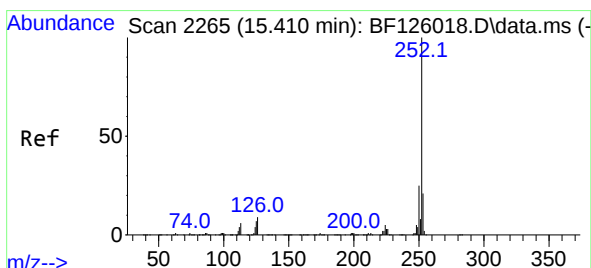
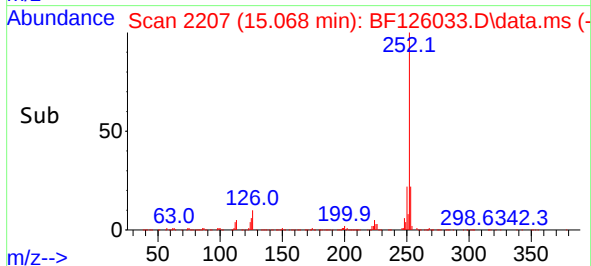
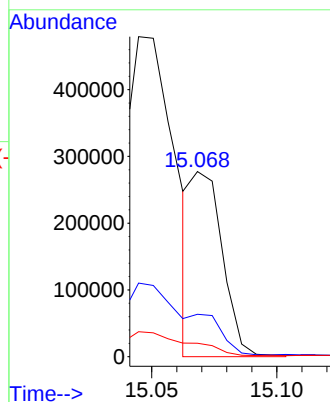
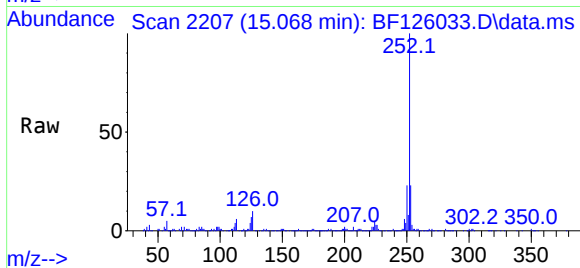
253 22.9 17.8 26.8

125 7.3 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 11/04/2021
Supervised By :mohammad ahmed 11/08/2021



#90

Benzo(a)pyrene

Concen: 26.89 ng m

RT: 15.409 min Scan# 2265

Delta R.T. -0.001 min

Lab File: BF126033.D

Acq: 3 Nov 2021 22:32

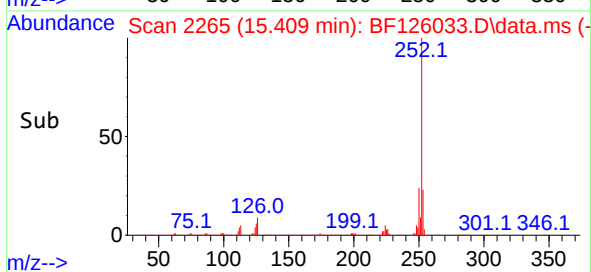
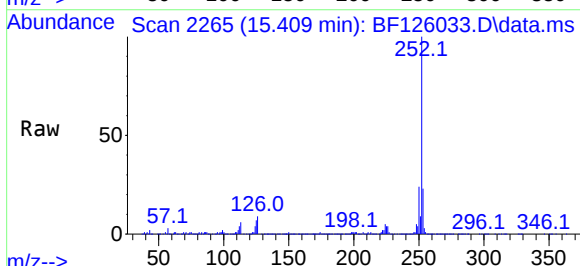
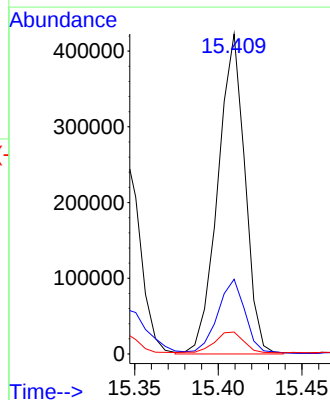
Tgt Ion:252 Resp: 475775

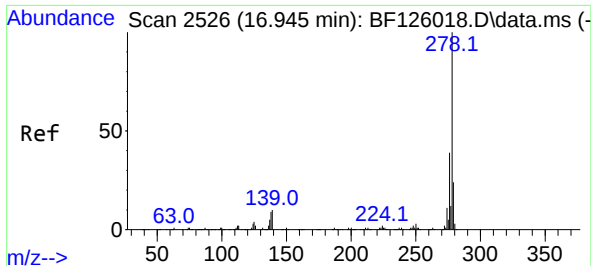
Ion Ratio Lower Upper

252 100

253 23.4 18.4 27.6

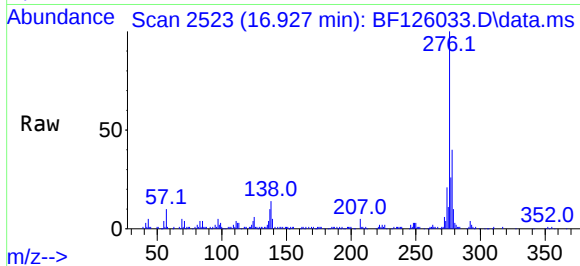
125 6.8 9.9 14.9#





#91
Dibenzo(a,h)anthracene
Concen: 4.25 ng m
RT: 16.927 min Scan# 2523
Delta R.T. -0.018 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32

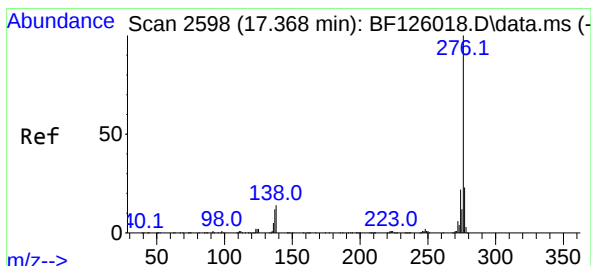
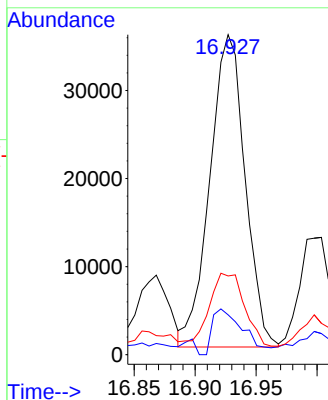
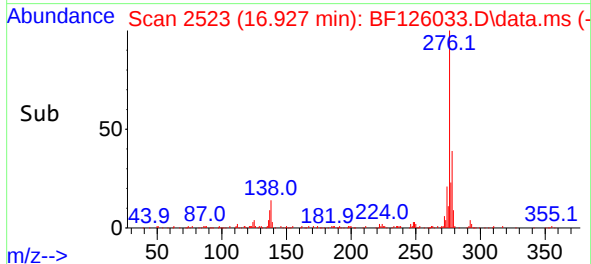
Instrument :
BNA_F
ClientSampleId :
SP-2



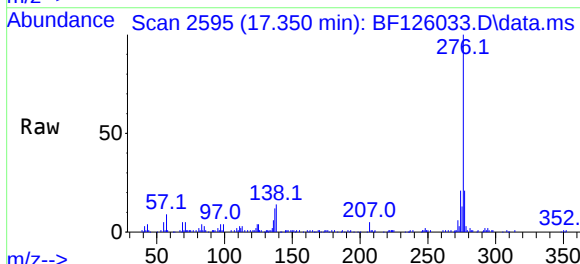
Tgt Ion: 278 Resp: 71294
Ion Ratio Lower Upper
278 100
139 12.4 14.9 22.3#
279 24.6 19.7 29.5

Manual Integrations
APPROVED

Reviewed By : Christian Giraldo 11/04/2021
Supervised By : mohammad ahmed 11/08/2021



#92
Benzo(g,h,i)perylene
Concen: 10.82 ng
RT: 17.350 min Scan# 2595
Delta R.T. -0.018 min
Lab File: BF126033.D
Acq: 3 Nov 2021 22:32



Tgt Ion: 276 Resp: 174186
Ion Ratio Lower Upper
276 100
277 21.4 22.0 33.0#
138 13.7 22.2 33.4#

