

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081722\
 Data File : BF129838.D
 Acq On : 17 Aug 2022 11:22
 Operator : CG\JU
 Sample : N4218-01DL 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-081522DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 08/18/2022
 Supervised By : Jagrut Upadhyay 08/18/2022

Quant Time: Aug 17 13:33:26 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF081422.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 15 02:28:31 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	156304	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	595297	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	275357	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	354704	20.000	ng	0.00
76) Chrysene-d12	14.010	240	294883	20.000	ng	0.00
86) Perylene-d12	15.486	264	261516	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.463	112	129881	13.758	ng	0.00
7) Phenol-d6	6.481	99	165075	13.963	ng	0.00
23) Nitrobenzene-d5	7.386	82	100254	9.015	ng	-0.01
42) 2,4,6-Tribromophenol	10.657	330	27475	9.942	ng	0.00
45) 2-Fluorobiphenyl	9.175	172	194240	10.714	ng	-0.01
79) Terphenyl-d14	12.939	244	137886	7.780	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.128	128	320994	10.313	ng	99
37) 2-Methylnaphthalene	8.816	142	163670	8.012	ng	99
38) 1-Methylnaphthalene	8.916	142	122459	6.168	ng	100
49) Acenaphthylene	9.722	152	93459	3.724	ng	98
52) Acenaphthene	9.892	154	107155	7.037	ng	97
55) Dibenzofuran	10.069	168	139039	6.078	ng	99
58) Fluorene	10.410	166	223340	11.692	ng	99
71) Phenanthrene	11.380	178	1039487	52.473	ng	100
72) Anthracene	11.433	178	296884	15.070	ng	100
73) Carbazole	11.592	167	92162	5.154	ng	99
75) Fluoranthene	12.574	202	891835	43.995	ng	98
78) Pyrene	12.804	202	813895	31.762	ng	99
81) Benzo(a)anthracene	13.998	228	439259	21.654	ng	97
83) Chrysene	14.033	228	342786	18.052	ng	98
87) Indeno(1,2,3-cd)pyrene	16.968	276	132105	7.358	ng	96
88) Benzo(b)fluoranthene	15.057	252	471265m	26.317	ng	
89) Benzo(k)fluoranthene	15.080	252	107763m	6.275	ng	
90) Benzo(a)pyrene	15.421	252	302325	21.438	ng	96
91) Dibenzo(a,h)anthracene	16.968	278	37578	2.537	ng	# 88
92) Benzo(g,h,i)perylene	17.427	276	122029	8.257	ng	97

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

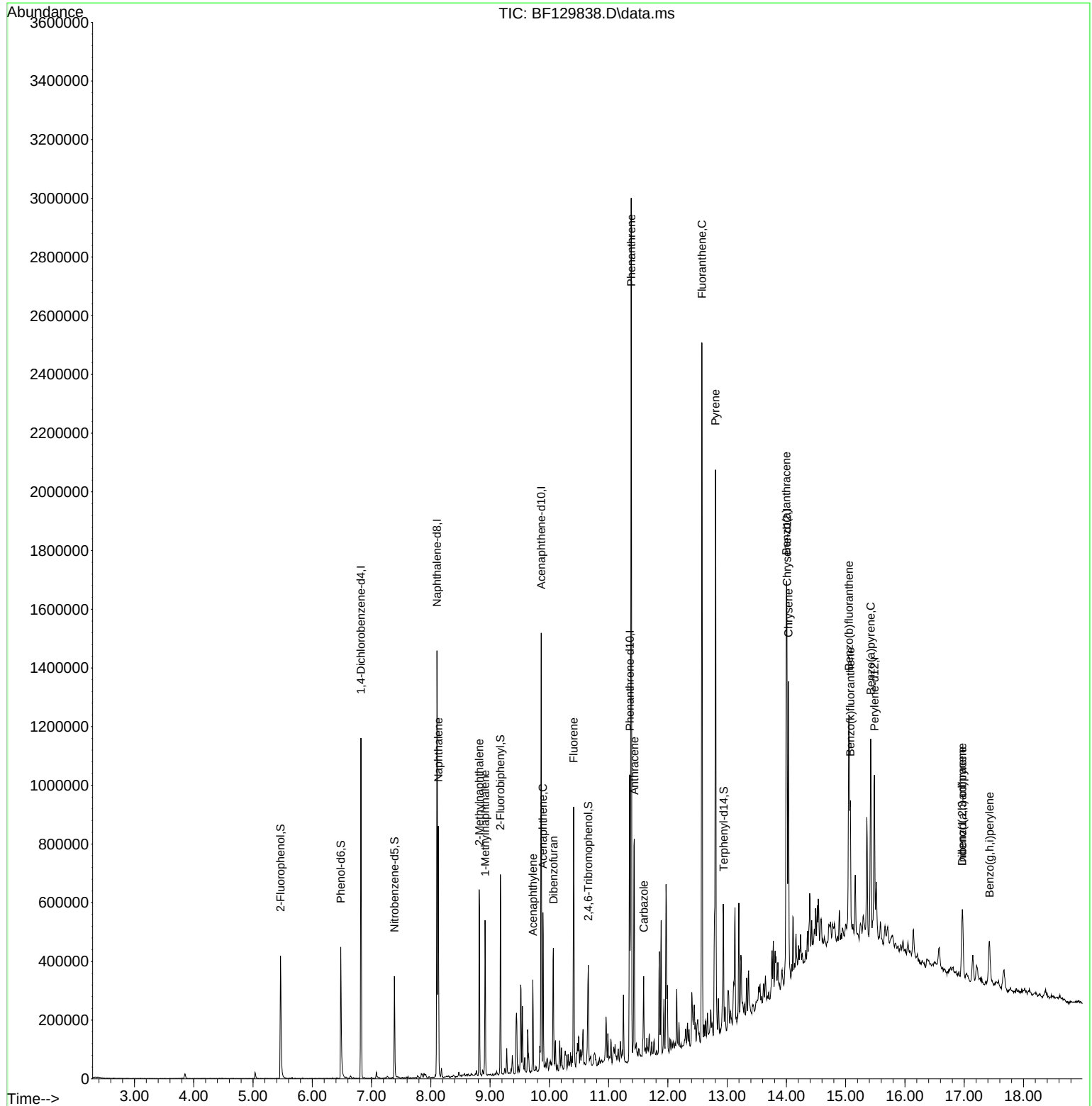
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081722\
Data File : BF129838.D
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Sample : N4218-01DL 5X
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ALS Vial : 5 Sample Multiplier: 1

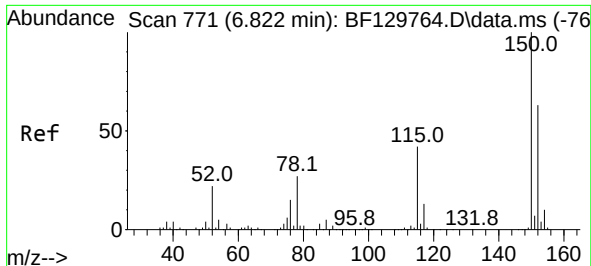
Instrument :
BNA_F
ClientSampleId :
OR-02-081522DL

Quant Time: Aug 17 13:33:26 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF081422.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 15 02:28:31 2022
Response via : Initial Calibration

Manual Integrations
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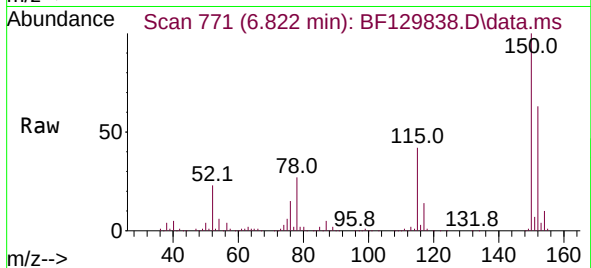
Reviewed By :Christian Giraldo 08/18/2022
Supervised By :Jagrut Upadhyay 08/18/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22

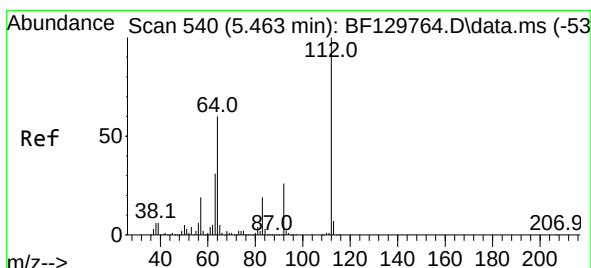
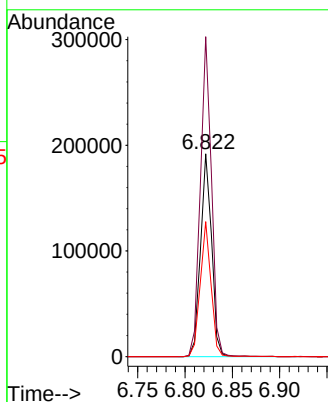
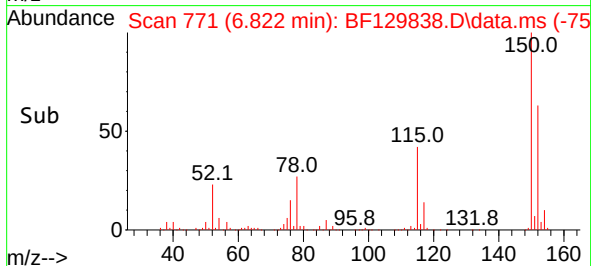
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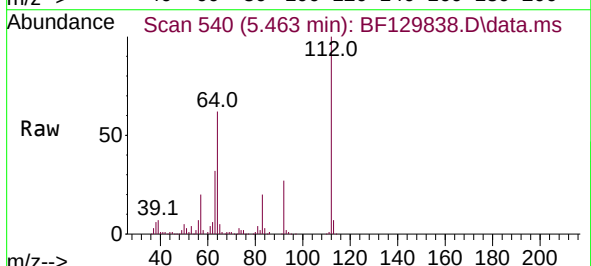
Tgt Ion:152 Resp: 156304
Ion Ratio Lower Upper
152 100
150 157.7 126.9 190.3
115 66.5 53.4 80.0

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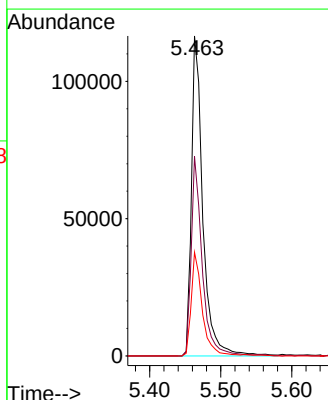
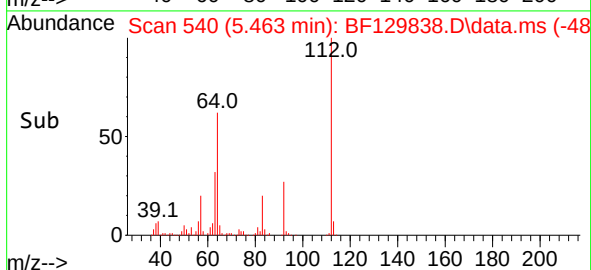
Reviewed By :Christian Giraldo 08/18/2022
Supervised By :Jagrut Upadhyay 08/18/2022

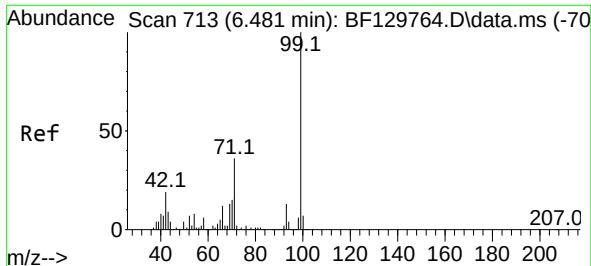


#5
2-Fluorophenol
Concen: 13.758 ng
RT: 5.463 min Scan# 540
Delta R.T. -0.000 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22



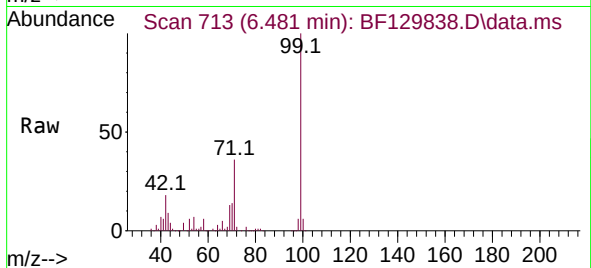
Tgt Ion:112 Resp: 129881
Ion Ratio Lower Upper
112 100
64 62.3 47.6 71.4
63 32.4 24.6 37.0





#7
Phenol-d6
Concen: 13.963 ng
RT: 6.481 min Scan# 713
Delta R.T. -0.000 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22

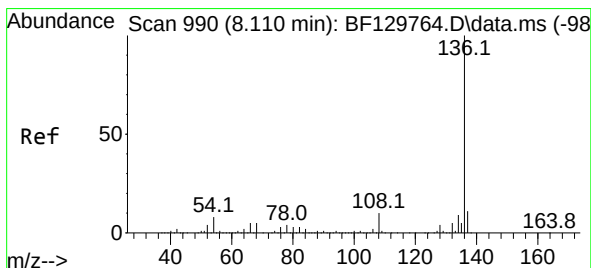
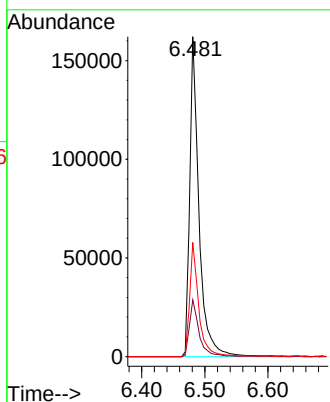
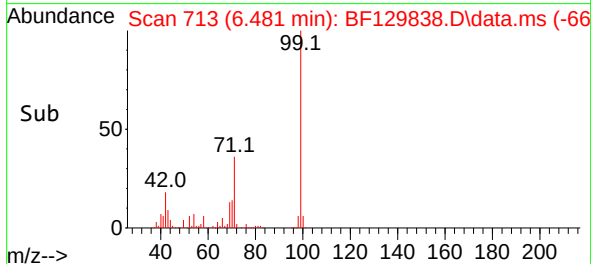
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ClientSampleId :
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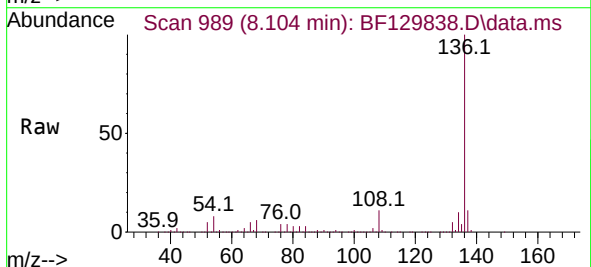
Tgt Ion: 99 Resp: 165075
Ion Ratio Lower Upper
99 100
42 17.7 15.0 22.4
71 35.7 28.8 43.2

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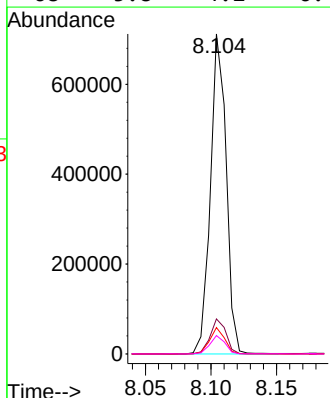
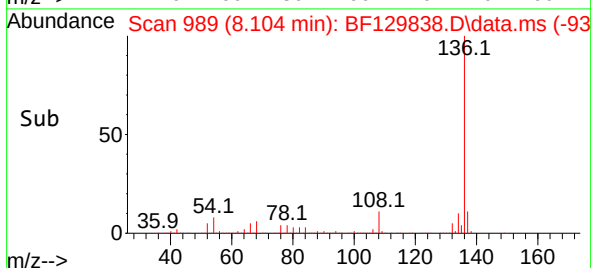
Reviewed By :Christian Giraldo 08/18/2022
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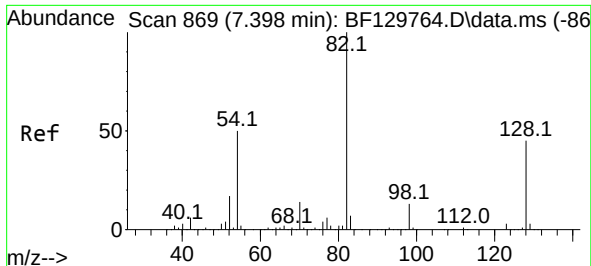


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 989
Delta R.T. -0.006 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22



Tgt Ion:136 Resp: 595297
Ion Ratio Lower Upper
136 100
137 10.9 8.4 12.6
54 8.2 6.2 9.2
68 5.8 4.2 6.4





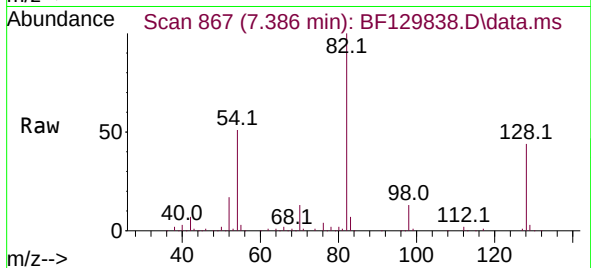
#23
Nitrobenzene-d5
Concen: 9.015 ng
RT: 7.386 min Scan# 867
Delta R.T. -0.012 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22

Instrument :

BNA_F

ClientSampleId :

OR-02-081522DL

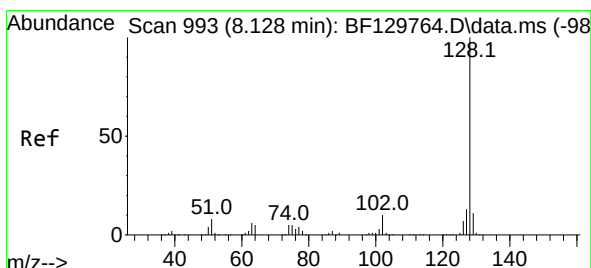
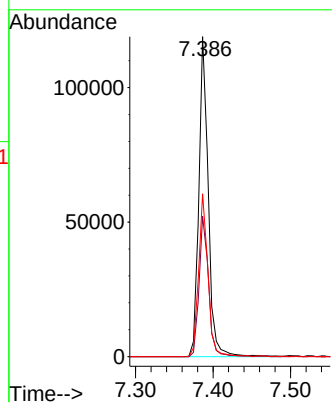
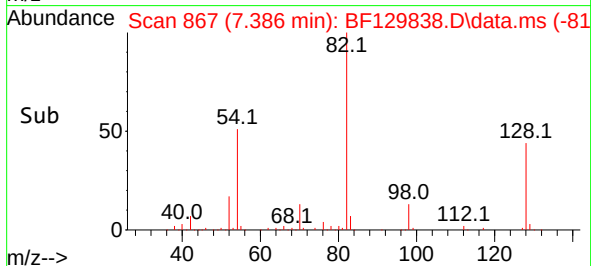


Tgt Ion: 82 Resp: 100254
Ion Ratio Lower Upper
82 100
128 43.9 36.1 54.1
54 50.9 40.0 60.0

Manual Integrations

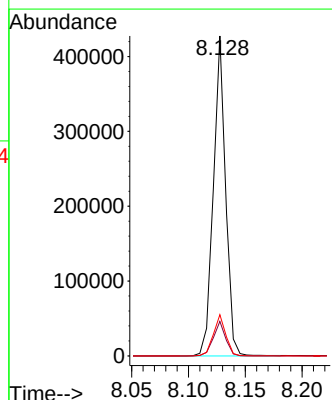
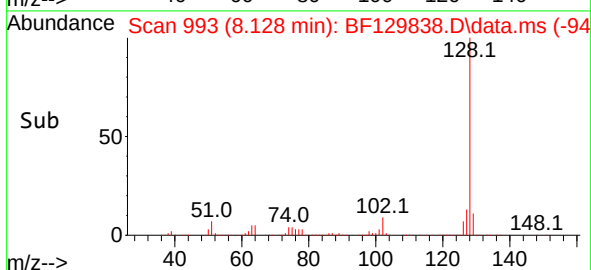
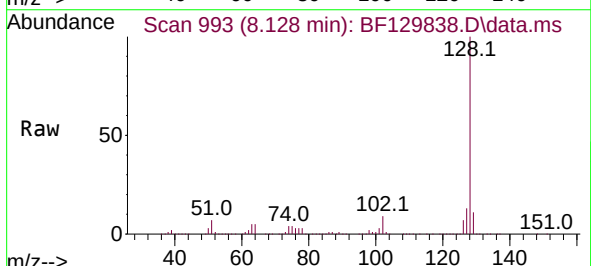
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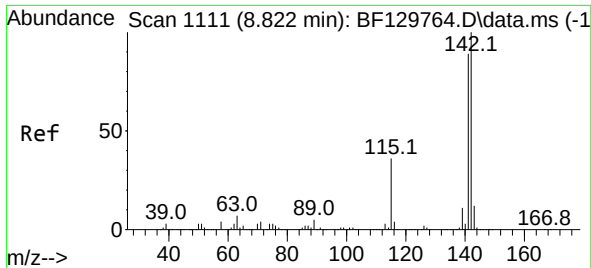
Reviewed By :Christian Giraldo 08/18/2022
Supervised By :Jagrut Upadhyay 08/18/2022



#31
Naphthalene
Concen: 10.313 ng
RT: 8.128 min Scan# 993
Delta R.T. -0.000 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22

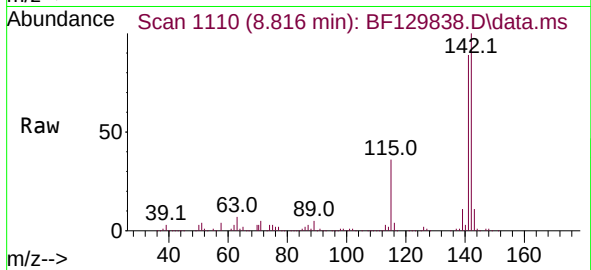
Tgt Ion:128 Resp: 320994
Ion Ratio Lower Upper
128 100
129 10.8 8.9 13.3
127 12.9 10.7 16.1





#37
2-Methylnaphthalene
Concen: 8.012 ng
RT: 8.816 min Scan# 1110
Delta R.T. -0.006 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22

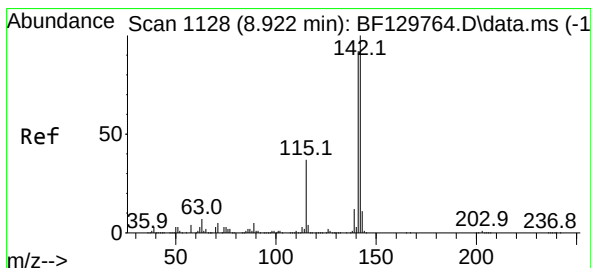
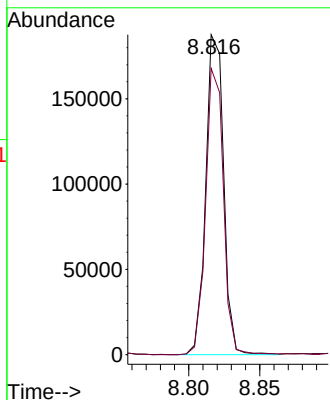
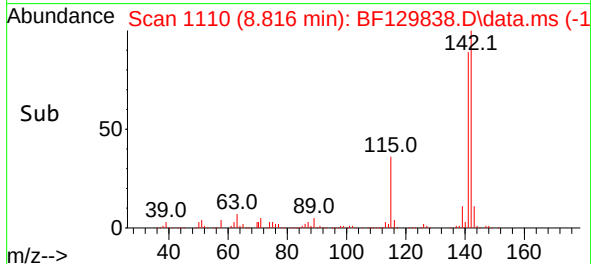
Instrument :
BNA_F
ClientSampleId :
OR-02-081522DL



Tgt Ion:142 Resp: 163670
Ion Ratio Lower Upper
142 100
141 89.4 70.9 106.3

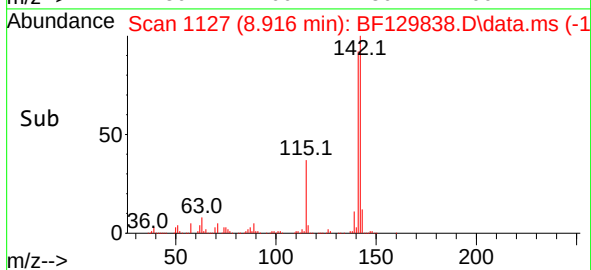
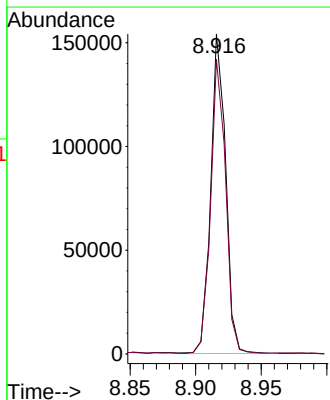
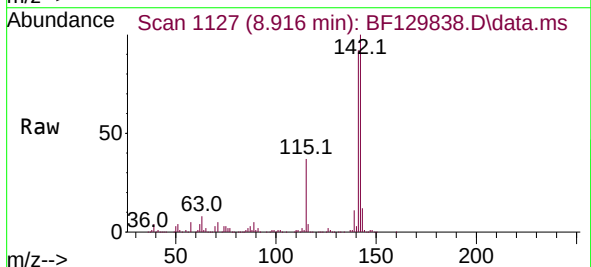
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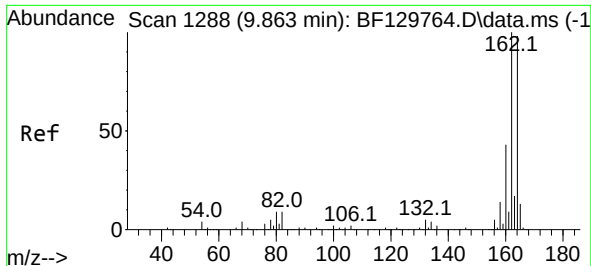
Reviewed By :Christian Giraldo 08/18/2022
Supervised By :Jagrut Upadhyay 08/18/2022



#38
1-Methylnaphthalene
Concen: 6.168 ng
RT: 8.916 min Scan# 1127
Delta R.T. -0.006 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22

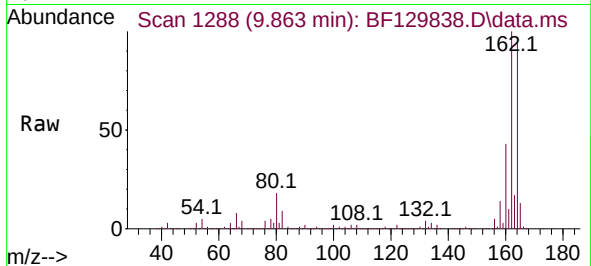
Tgt Ion:142 Resp: 122459
Ion Ratio Lower Upper
142 100
141 92.0 73.5 110.3





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1288
Delta R.T. -0.000 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22

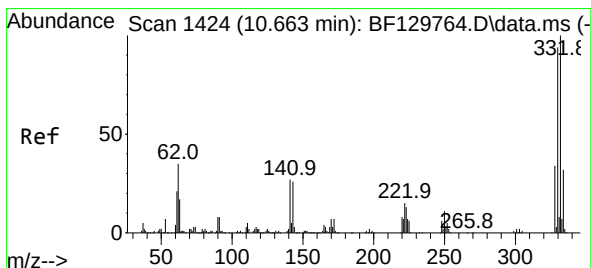
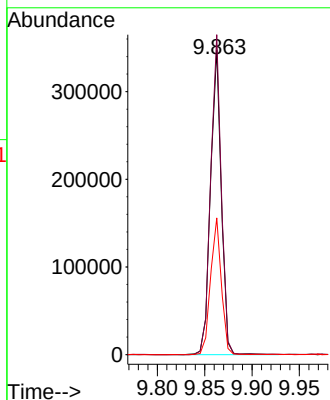
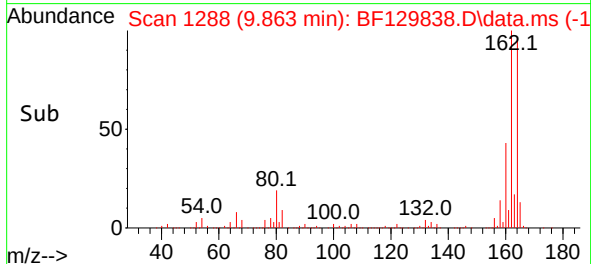
Instrument :
BNA_F
ClientSampleId :
OR-02-081522DL



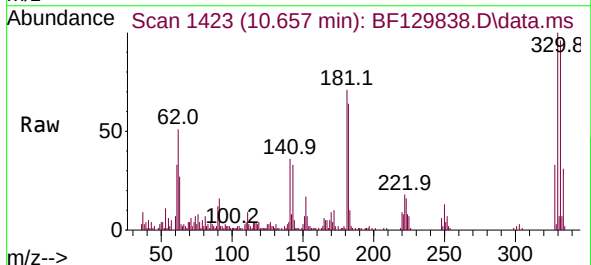
Tgt Ion:164 Resp: 275352
Ion Ratio Lower Upper
164 100
162 105.0 82.0 123.0
160 44.8 35.4 53.0

Manual Integrations
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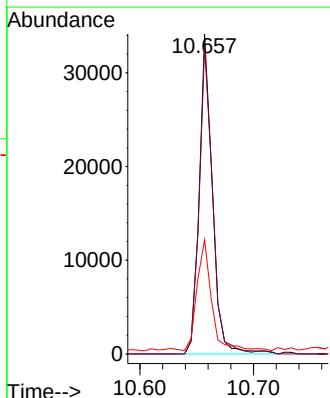
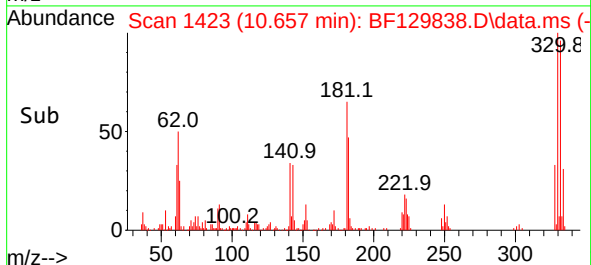
Reviewed By :Christian Giraldo 08/18/2022
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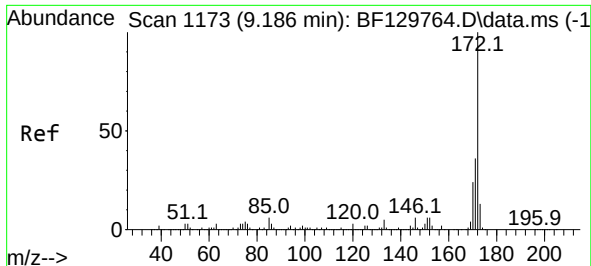


#42
2,4,6-Tribromophenol
Concen: 9.942 ng
RT: 10.657 min Scan# 1423
Delta R.T. -0.006 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22



Tgt Ion:330 Resp: 27475
Ion Ratio Lower Upper
330 100
332 97.4 82.6 124.0
141 39.8 27.6 41.4





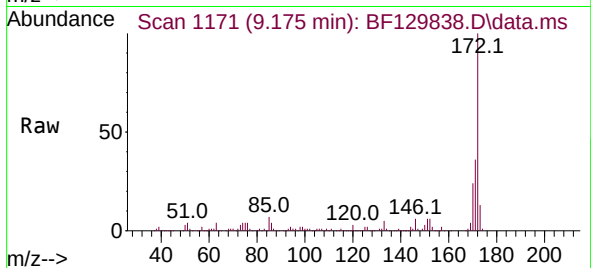
#45
2-Fluorobiphenyl
Concen: 10.714 ng
RT: 9.175 min Scan# 1173
Delta R.T. -0.012 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22

Instrument :

BNA_F

ClientSampleId :

OR-02-081522DL

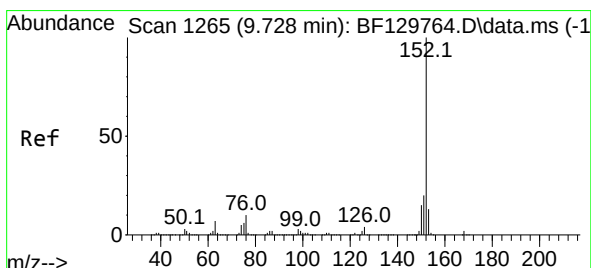
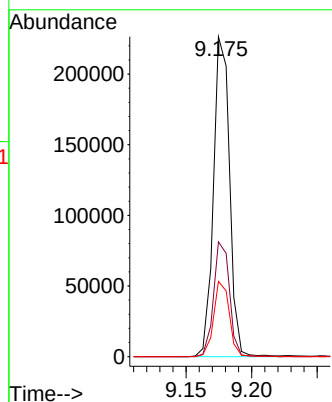
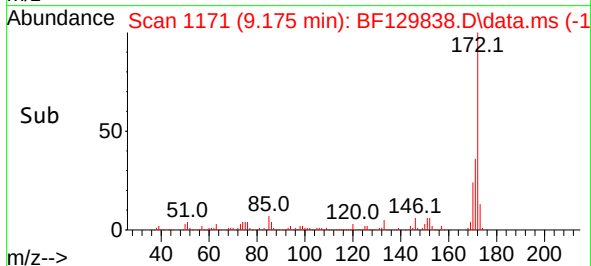


Tgt Ion:172 Resp: 194240
Ion Ratio Lower Upper
172 100
171 35.9 28.4 42.6
170 23.5 19.1 28.7

Manual Integrations

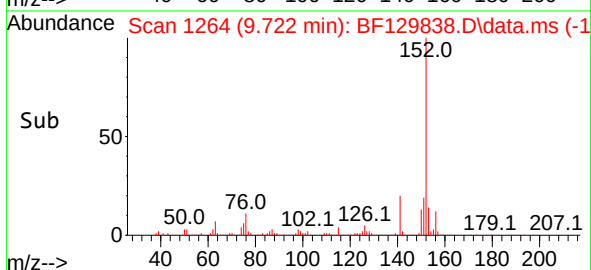
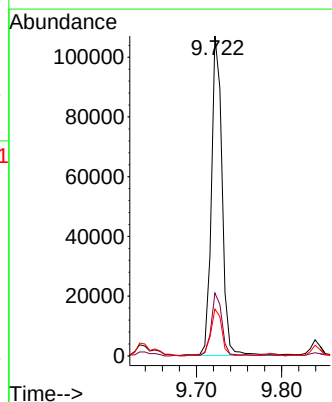
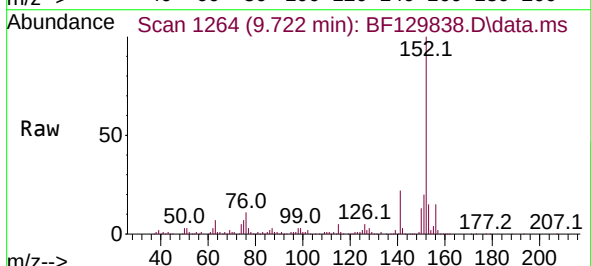
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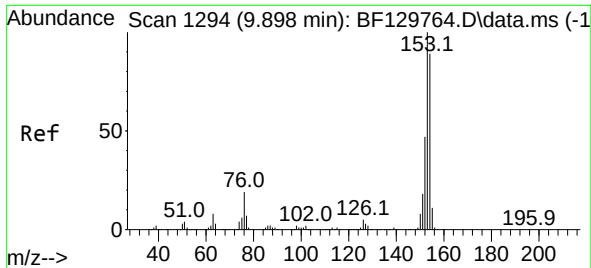
Reviewed By :Christian Giraldo 08/18/2022
Supervised By :Jagrut Upadhyay 08/18/2022



#49
Acenaphthylene
Concen: 3.724 ng
RT: 9.722 min Scan# 1264
Delta R.T. -0.006 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22

Tgt Ion:152 Resp: 93459
Ion Ratio Lower Upper
152 100
151 19.6 16.1 24.1
153 14.6 10.6 16.0





#52
Acenaphthene
Concen: 7.037 ng
RT: 9.892 min Scan# 1294
Delta R.T. -0.006 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22

Instrument :

BNA_F

ClientSampleId :

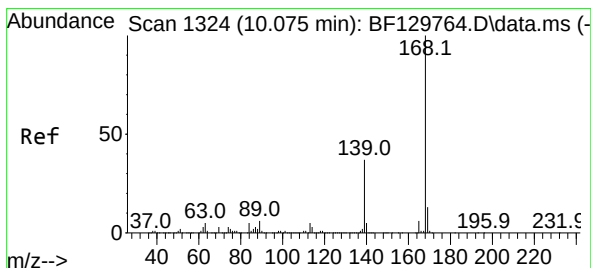
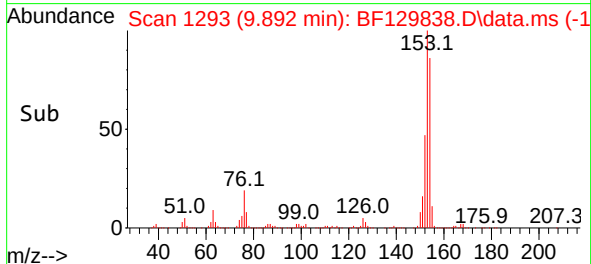
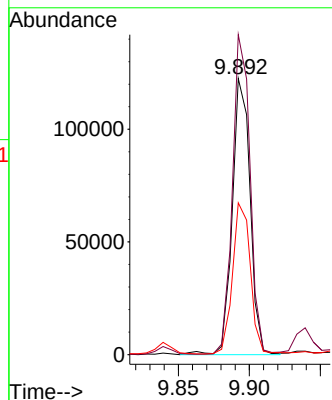
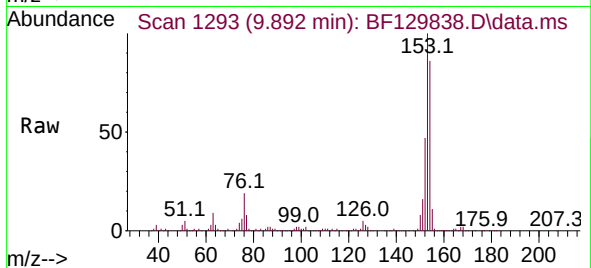
OR-02-081522DL

Tgt Ion:154 Resp: 10715
Ion Ratio Lower Upper
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153 115.9 89.8 134.6
152 55.0 42.1 63.1

Manual Integrations

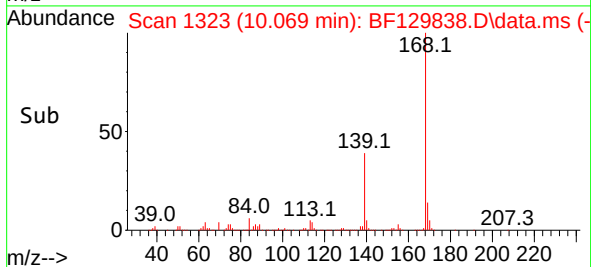
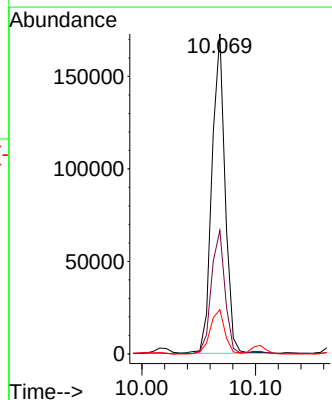
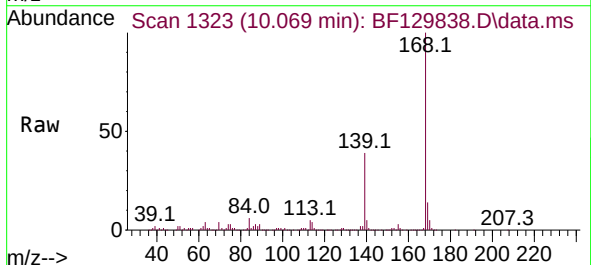
APPROVED

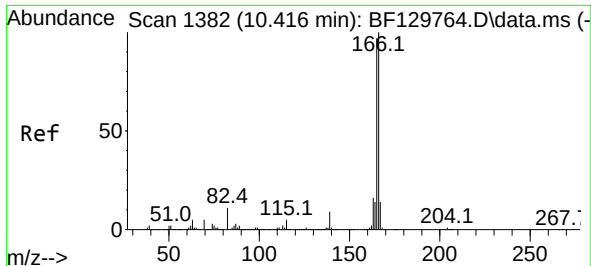
Reviewed By :Christian Giraldo 08/18/2022
Supervised By :Jagrut Upadhyay 08/18/2022



#55
Dibenzofuran
Concen: 6.078 ng
RT: 10.069 min Scan# 1323
Delta R.T. -0.006 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22

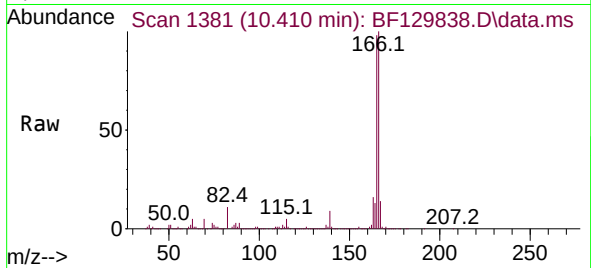
Tgt Ion:168 Resp: 139039
Ion Ratio Lower Upper
168 100
139 38.6 31.3 46.9
169 13.8 10.7 16.1





#58
Fluorene
Concen: 11.692 ng
RT: 10.410 min Scan# 1381
Delta R.T. -0.006 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22

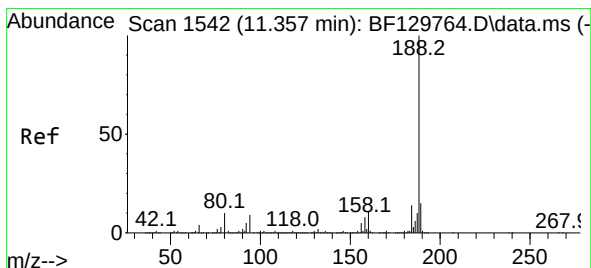
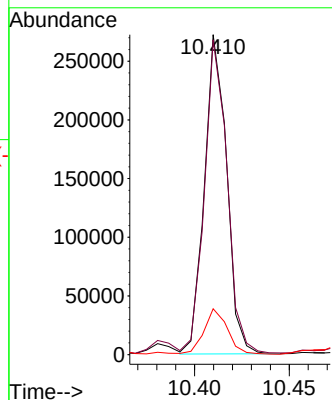
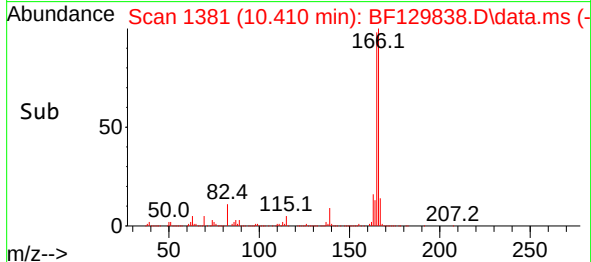
Instrument :
BNA_F
ClientSampleId :
OR-02-081522DL



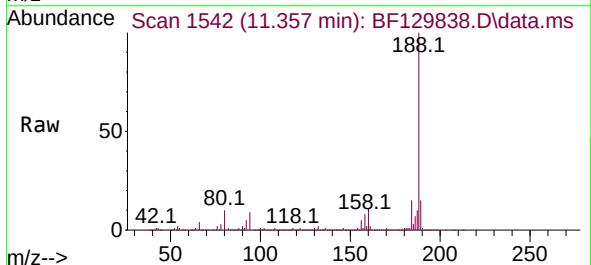
Tgt Ion:166 Resp: 223340
Ion Ratio Lower Upper
166 100
165 98.4 77.9 116.9
167 14.4 11.0 16.4

Manual Integrations
APPROVED

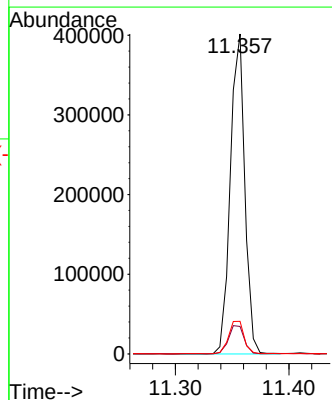
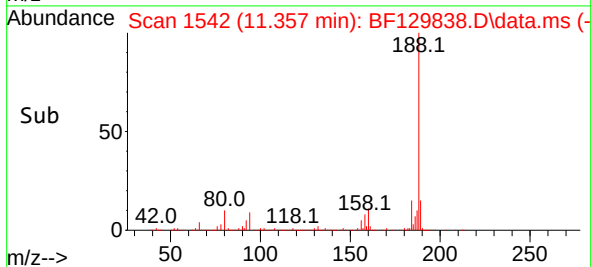
Reviewed By :Christian Giraldo 08/18/2022
Supervised By :Jagrut Upadhyay 08/18/2022

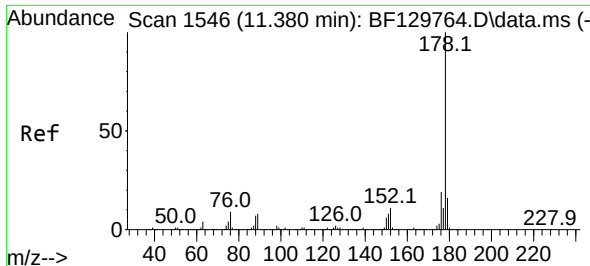


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1542
Delta R.T. -0.000 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22



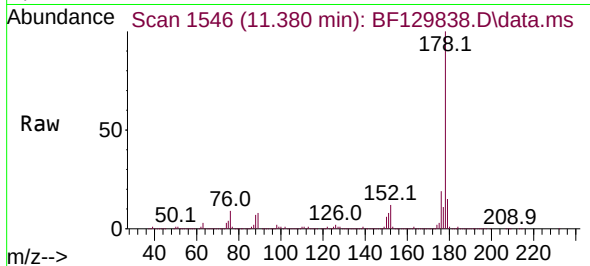
Tgt Ion:188 Resp: 354704
Ion Ratio Lower Upper
188 100
94 8.6 7.4 11.2
80 10.2 7.9 11.9





#71
Phenanthrene
Concen: 52.473 ng
RT: 11.380 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22

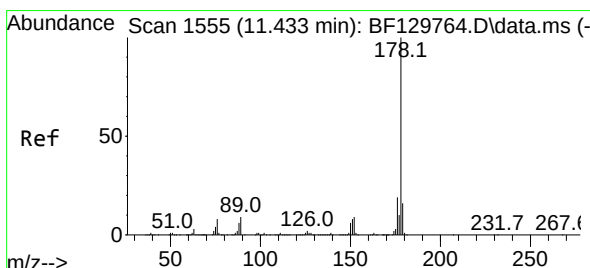
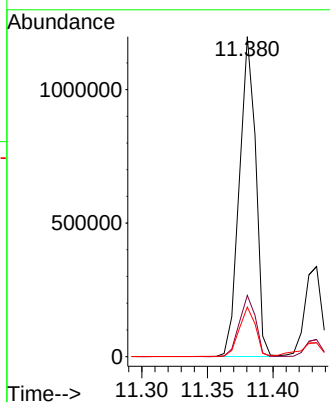
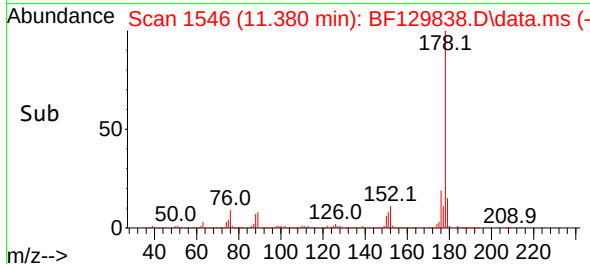
Instrument :
BNA_F
ClientSampleId :
OR-02-081522DL



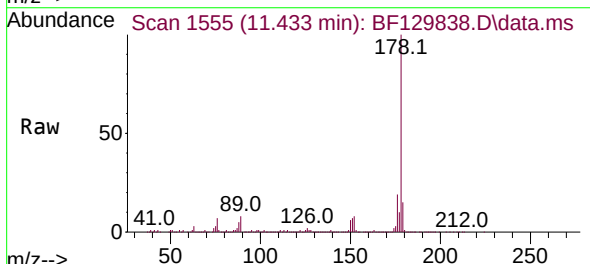
Tgt Ion:178 Resp: 103948
Ion Ratio Lower Upper
178 100
176 19.1 15.5 23.3
179 15.5 12.5 18.7

Manual Integrations
APPROVED

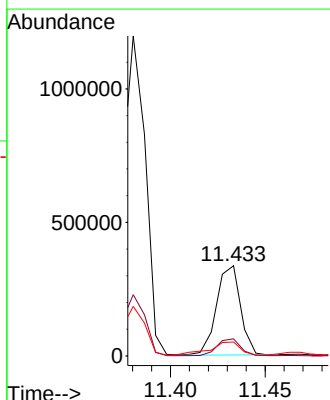
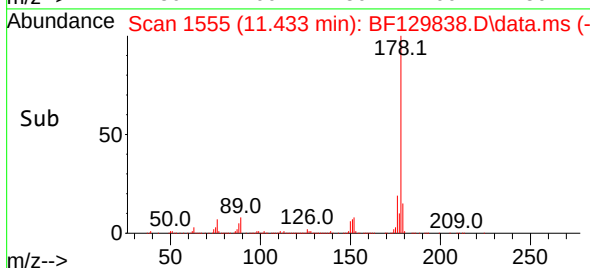
Reviewed By :Christian Giraldo 08/18/2022
Supervised By :Jagrut Upadhyay 08/18/2022

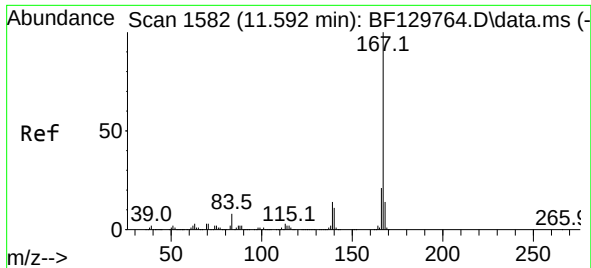


#72
Anthracene
Concen: 15.070 ng
RT: 11.433 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22



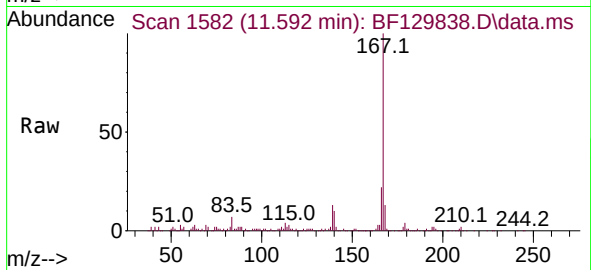
Tgt Ion:178 Resp: 296884
Ion Ratio Lower Upper
178 100
176 18.9 15.1 22.7
179 15.4 12.6 18.8





#73
 Carbazole
 Concen: 5.154 ng
 RT: 11.592 min Scan# 1158
 Delta R.T. -0.000 min
 Lab File: BF129838.D
 Acq: 17 Aug 2022 11:22

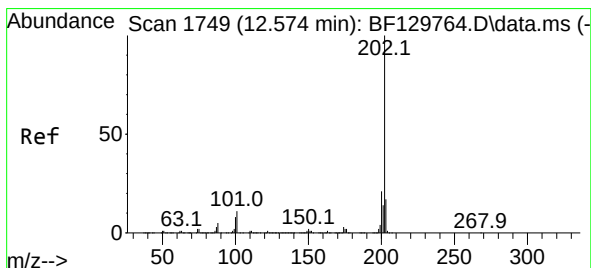
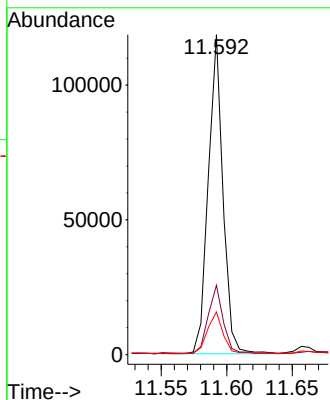
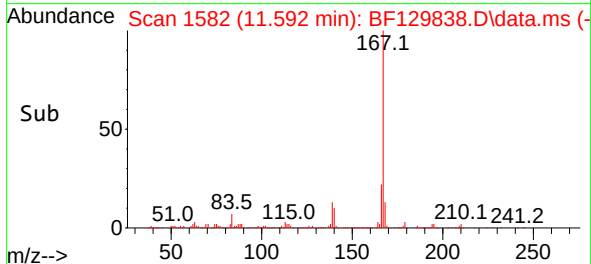
Instrument :
 BNA_F
 ClientSampleId :
 OR-02-081522DL



Tgt Ion:167 Resp: 92162
 Ion Ratio Lower Upper
 167 100
 166 21.7 17.1 25.7
 139 13.3 11.0 16.6

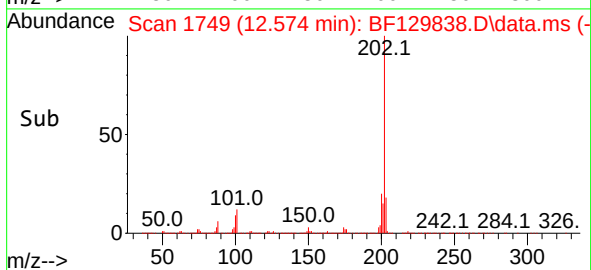
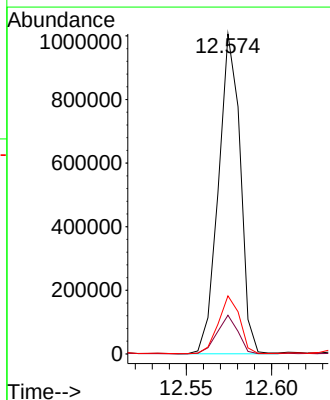
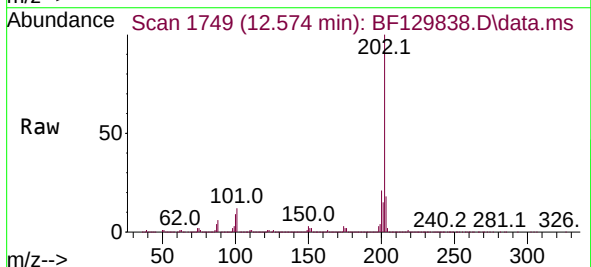
Manual Integrations
 APPROVED

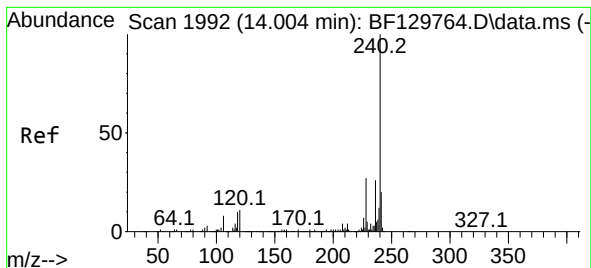
Reviewed By :Christian Giraldo 08/18/2022
 Supervised By :Jagrut Upadhyay 08/18/2022



#75
 Fluoranthene
 Concen: 43.995 ng
 RT: 12.574 min Scan# 1749
 Delta R.T. -0.000 min
 Lab File: BF129838.D
 Acq: 17 Aug 2022 11:22

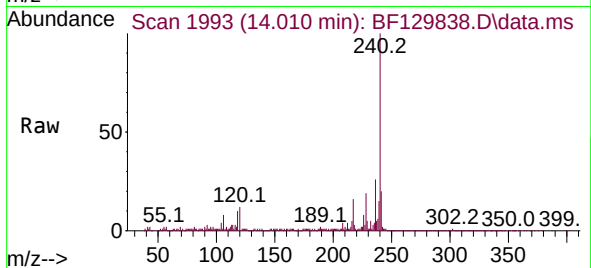
Tgt Ion:202 Resp: 891835
 Ion Ratio Lower Upper
 202 100
 101 12.1 0.0 30.7
 203 18.1 0.0 37.5





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.010 min Scan# 1992
Delta R.T. 0.006 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22

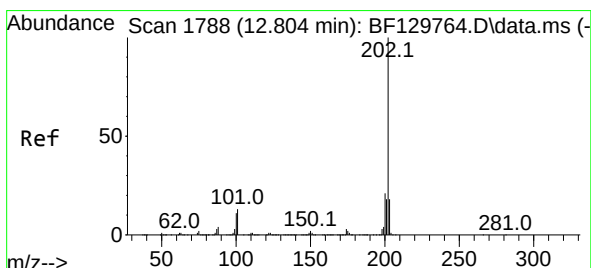
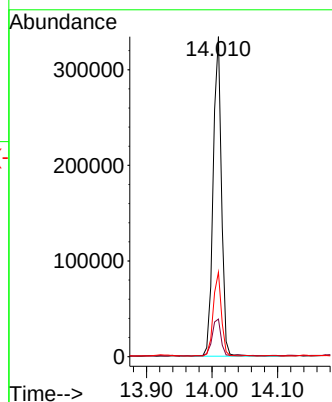
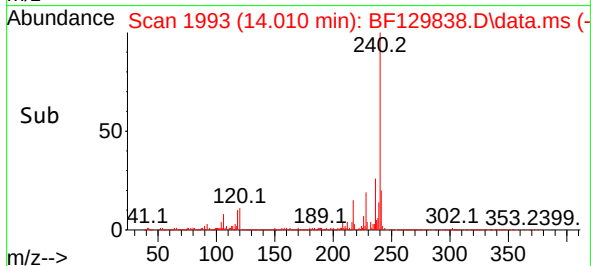
Instrument :
BNA_F
ClientSampleId :
OR-02-081522DL



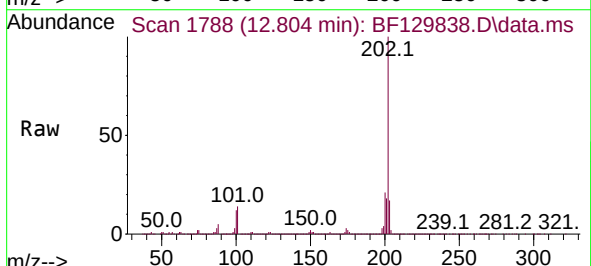
Tgt Ion:240 Resp: 294883
Ion Ratio Lower Upper
240 100
120 11.7 9.2 13.8
236 26.4 20.7 31.1

Manual Integrations
APPROVED

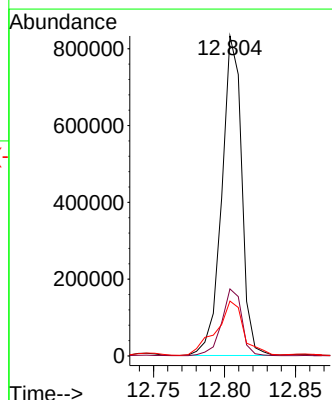
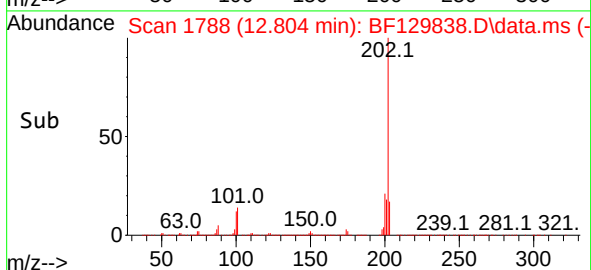
Reviewed By :Christian Giraldo 08/18/2022
Supervised By :Jagrut Upadhyay 08/18/2022

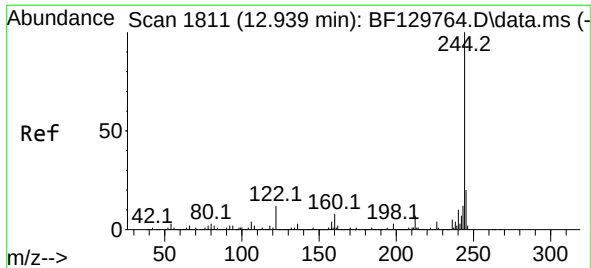


#78
Pyrene
Concen: 31.762 ng
RT: 12.804 min Scan# 1788
Delta R.T. -0.000 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22



Tgt Ion:202 Resp: 813895
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.6
203 17.1 14.1 21.1





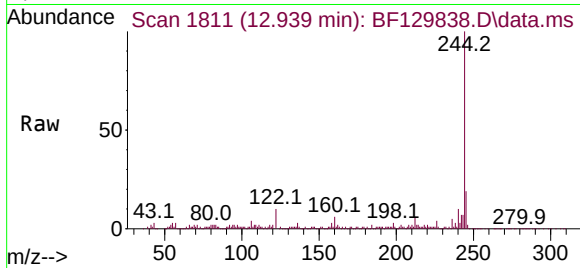
#79
 Terphenyl-d14
 Concen: 7.780 ng
 RT: 12.939 min Scan# 1811
 Delta R.T. -0.000 min
 Lab File: BF129838.D
 Acq: 17 Aug 2022 11:22

Instrument :

BNA_F

ClientSampleId :

OR-02-081522DL

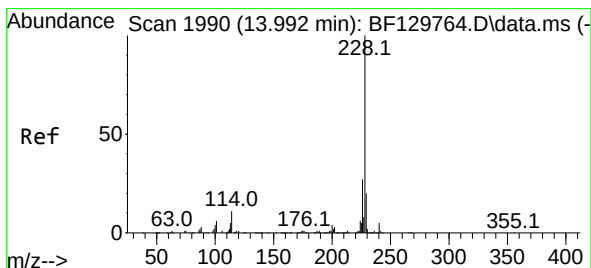
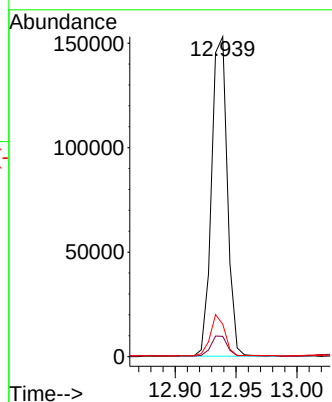
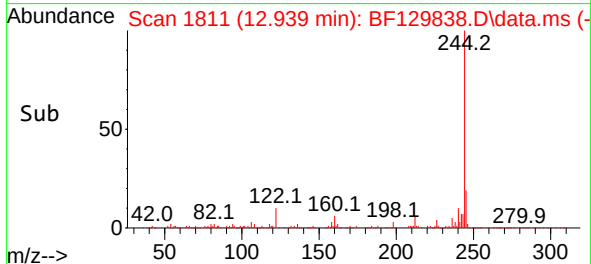


Tgt Ion:244 Resp: 137886
 Ion Ratio Lower Upper
 244 100
 212 6.3 5.9 8.9
 122 10.1 9.9 14.9

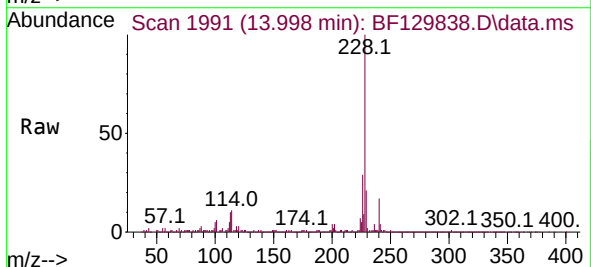
Manual Integrations

APPROVED

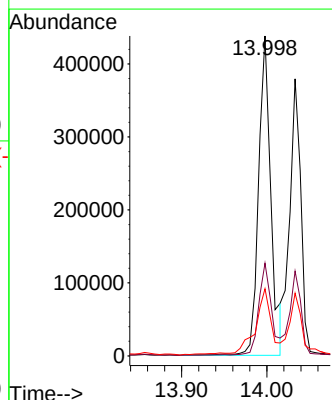
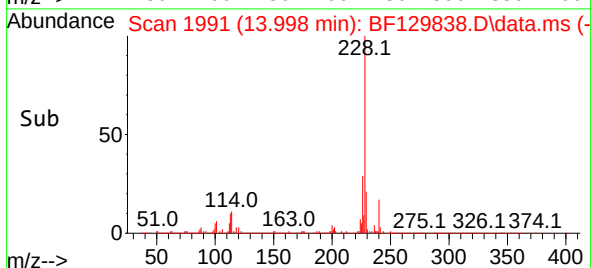
Reviewed By :Christian Giraldo 08/18/2022
 Supervised By :Jagrut Upadhyay 08/18/2022

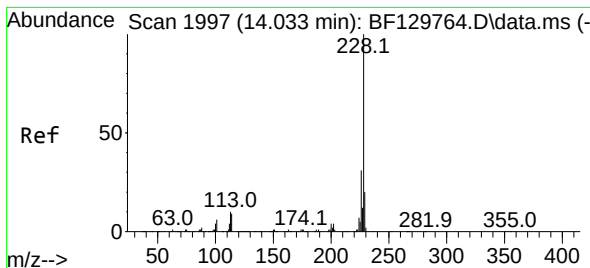


#81
 Benzo(a)anthracene
 Concen: 21.654 ng
 RT: 13.998 min Scan# 1991
 Delta R.T. 0.006 min
 Lab File: BF129838.D
 Acq: 17 Aug 2022 11:22



Tgt Ion:228 Resp: 439259
 Ion Ratio Lower Upper
 228 100
 226 29.0 21.4 32.0
 229 21.0 16.1 24.1





#83

Chrysene

Concen: 18.052 ng

RT: 14.033 min Scan# 1997

Delta R.T. -0.000 min

Lab File: BF129838.D

Acq: 17 Aug 2022 11:22

Instrument :

BNA_F

ClientSampleId :

OR-02-081522DL

Tgt Ion:228 Resp: 342786

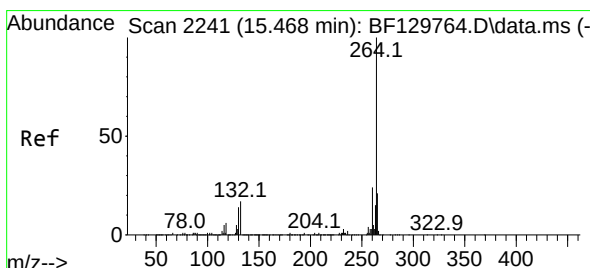
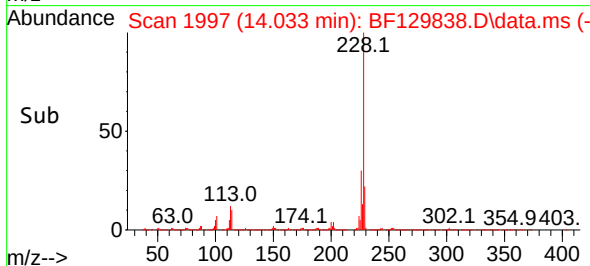
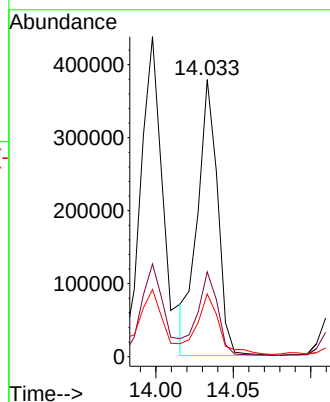
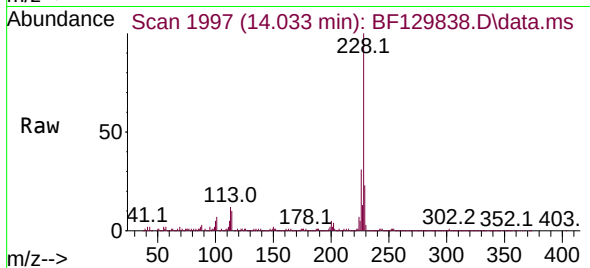
Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.4	36.6
229	22.6	15.9	23.9

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 08/18/2022

Supervised By :Jagrut Upadhyay 08/18/2022



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.486 min Scan# 2244

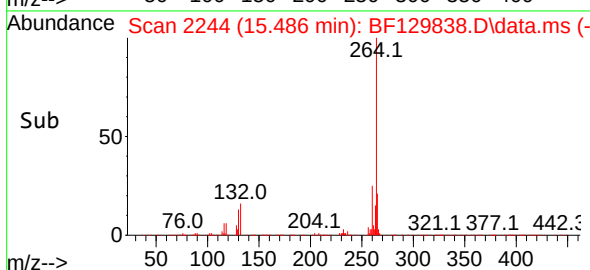
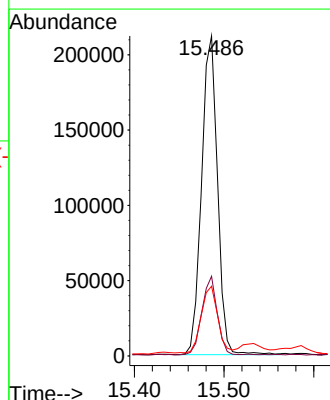
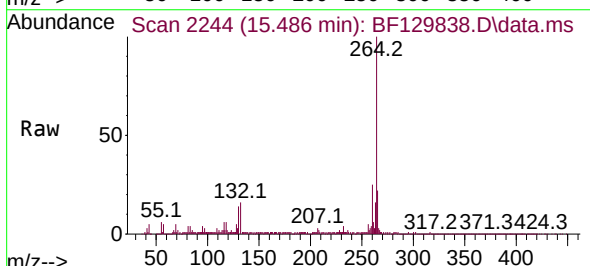
Delta R.T. 0.018 min

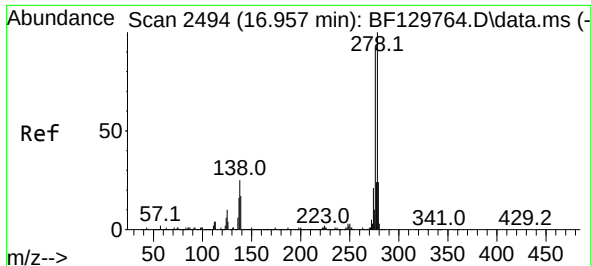
Lab File: BF129838.D

Acq: 17 Aug 2022 11:22

Tgt Ion:264 Resp: 261516

Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.1	28.7
265	21.8	16.7	25.1





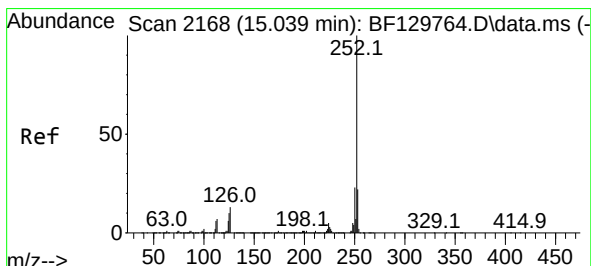
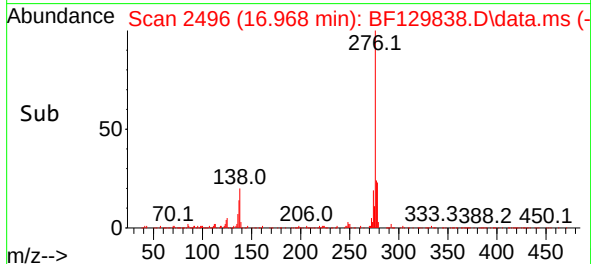
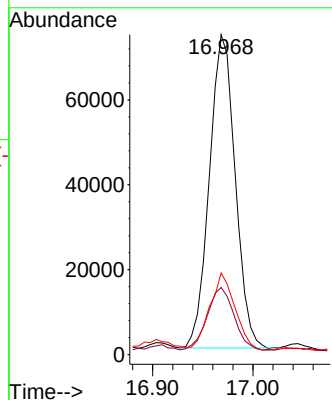
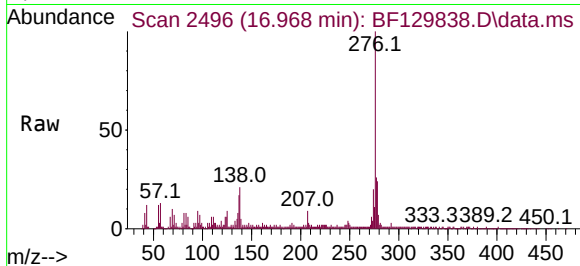
#87
Indeno(1,2,3-cd)pyrene
Concen: 7.358 ng
RT: 16.968 min Scan# 2494
Delta R.T. 0.012 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22

Instrument :
BNA_F
ClientSampleId :
OR-02-081522DL

Tgt Ion:276 Resp: 132105
Ion Ratio Lower Upper
276 100
138 21.5 19.8 29.8
277 24.3 20.4 30.6

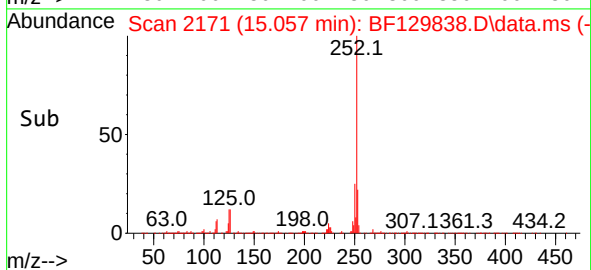
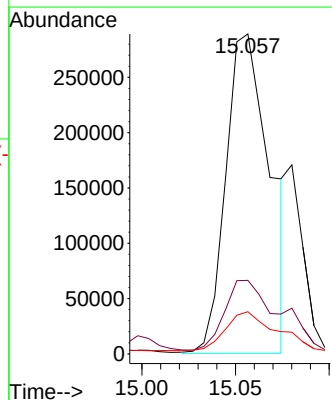
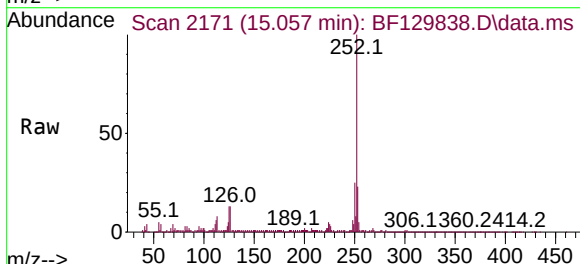
Manual Integrations
APPROVED

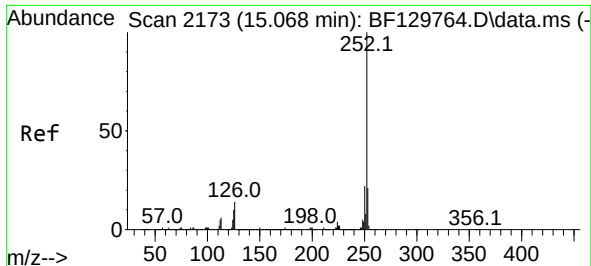
Reviewed By :Christian Giraldo 08/18/2022
Supervised By :Jagrut Upadhyay 08/18/2022



#88
Benzo(b)fluoranthene
Concen: 26.317 ng m
RT: 15.057 min Scan# 2171
Delta R.T. 0.018 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22

Tgt Ion:252 Resp: 471265
Ion Ratio Lower Upper
252 100
253 23.0 17.5 26.3
125 13.2 8.3 12.5#





#89

Benzo(k)fluoranthene

Concen: 6.275 ng m

RT: 15.080 min Scan# 2173

Delta R.T. 0.012 min

Lab File: BF129838.D

Acq: 17 Aug 2022 11:22

Instrument :

BNA_F

ClientSampleId :

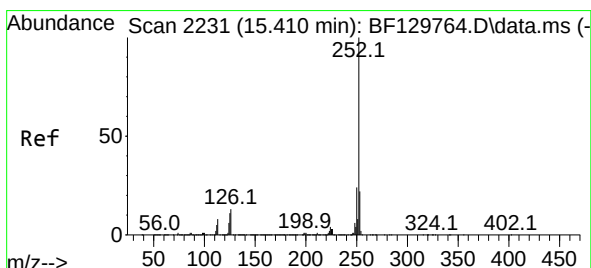
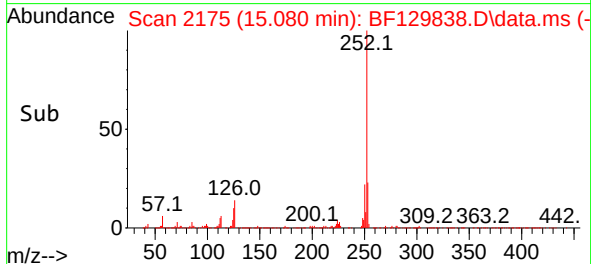
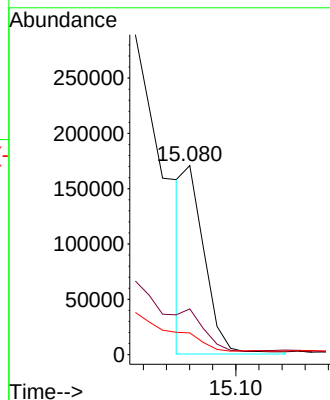
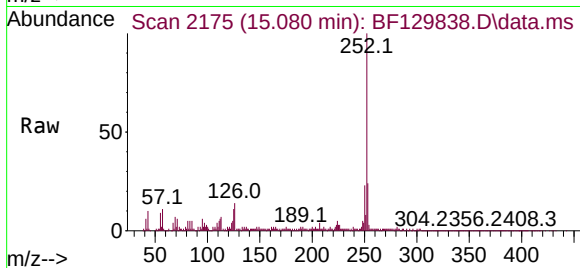
OR-02-081522DL

Tgt Ion:252 Resp: 107763
 Ion Ratio Lower Upper
 252 100
 253 24.2 17.1 25.7
 125 11.5 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 08/18/2022
 Supervised By :Jagrut Upadhyay 08/18/2022



#90

Benzo(a)pyrene

Concen: 21.438 ng

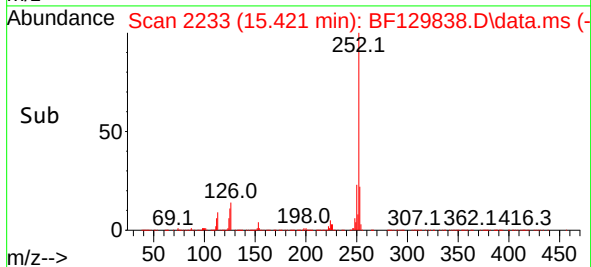
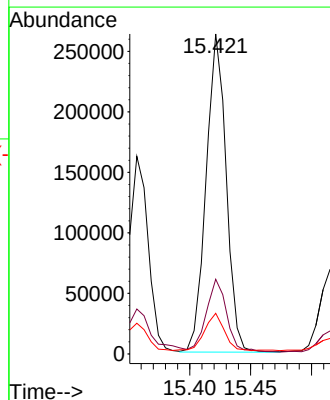
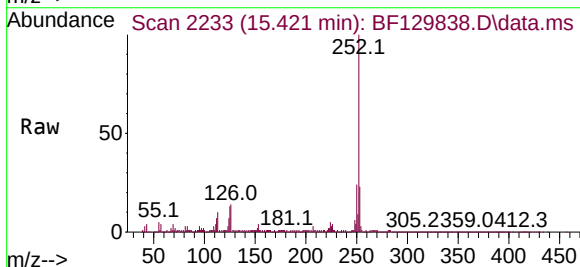
RT: 15.421 min Scan# 2233

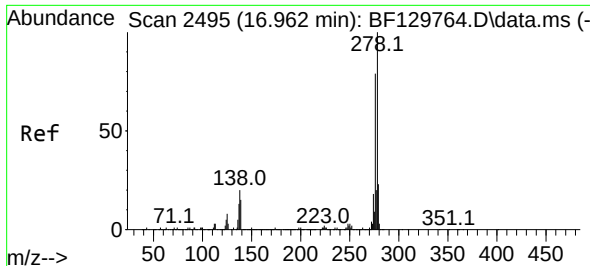
Delta R.T. 0.012 min

Lab File: BF129838.D

Acq: 17 Aug 2022 11:22

Tgt Ion:252 Resp: 302325
 Ion Ratio Lower Upper
 252 100
 253 23.3 17.2 25.8
 125 12.7 8.8 13.2





#91
Dibenzo(a,h)anthracene
Concen: 2.537 ng
RT: 16.968 min Scan# 2495
Delta R.T. 0.006 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22

Instrument :

BNA_F

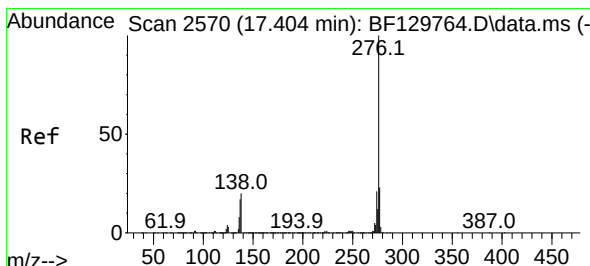
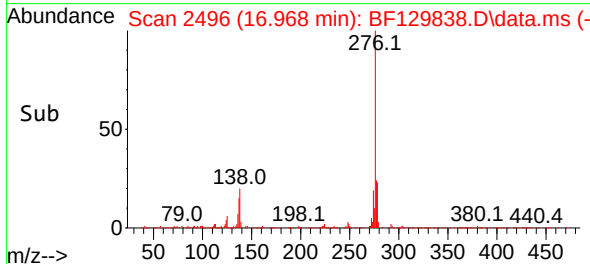
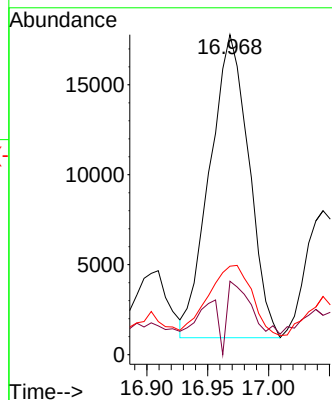
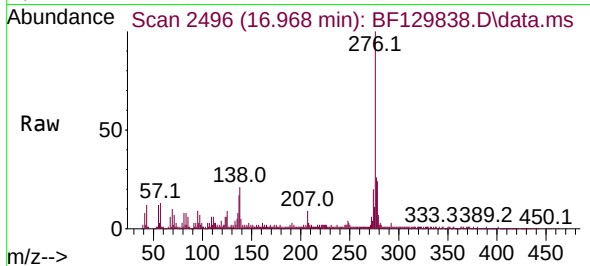
ClientSampleId :

OR-02-081522DL

Tgt Ion:278 Resp: 37578
Ion Ratio Lower Upper
278 100
139 22.9 12.2 18.4
279 27.6 18.7 28.1

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 08/18/2022
Supervised By :Jagrut Upadhyay 08/18/2022



#92
Benzo(g,h,i)perylene
Concen: 8.257 ng
RT: 17.427 min Scan# 2574
Delta R.T. 0.023 min
Lab File: BF129838.D
Acq: 17 Aug 2022 11:22

Tgt Ion:276 Resp: 122029
Ion Ratio Lower Upper
276 100
277 25.3 18.2 27.4
138 19.3 15.8 23.8

