

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102522\
 Data File : BF130768.D
 Acq On : 25 Oct 2022 13:51
 Operator : CG\JU
 Sample : N5223-01DL 10X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-3-102022DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 10/26/2022
 Supervised By : Jagrut Upadhyay 10/27/2022

Quant Time: Oct 25 15:08:12 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF102022.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 21 06:12:36 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.563	152	76594	20.000	ng	0.00
21) Naphthalene-d8	7.845	136	313653	20.000	ng	0.00
39) Acenaphthene-d10	9.592	164	166756	20.000	ng	0.00
64) Phenanthrene-d10	11.074	188	276457	20.000	ng	0.00
76) Chrysene-d12	13.710	240	346990	20.000	ng	0.00
86) Perylene-d12	15.086	264	238112	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.198	112	31903	7.182	ng	0.04
7) Phenol-d6	6.245	99	43718	8.135	ng	0.02
23) Nitrobenzene-d5	7.139	82	27129	4.588	ng	0.00
42) 2,4,6-Tribromophenol	10.386	330	11676	7.363	ng	0.00
45) 2-Fluorobiphenyl	8.916	172	59195	5.410	ng	-0.01
79) Terphenyl-d14	12.651	244	61226	2.973	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.863	128	104681	6.473	ng	99
37) 2-Methylnaphthalene	8.557	142	33442	3.156	ng	97
38) 1-Methylnaphthalene	8.657	142	21756	2.071	ng	99
52) Acenaphthene	9.622	154	49953	5.639	ng	98
55) Dibenzofuran	9.798	168	58826	4.314	ng	96
58) Fluorene	10.139	166	80520	7.101	ng	99
71) Phenanthrene	11.098	178	484254	31.943	ng	99
72) Anthracene	11.151	178	150353	9.938	ng	98
73) Carbazole	11.316	167	44585	3.192	ng	99
75) Fluoranthene	12.280	202	504630	32.926	ng	99
78) Pyrene	12.510	202	414400	14.228	ng	100
81) Benzo(a)anthracene	13.698	228	357662	15.426	ng	98
83) Chrysene	13.733	228	280355	12.480	ng	98
87) Indeno(1,2,3-cd)pyrene	16.392	276	87609	5.130	ng	99
88) Benzo(b)fluoranthene	14.709	252	298181m	18.808	ng	
89) Benzo(k)fluoranthene	14.733	252	71456m	4.486	ng	
90) Benzo(a)pyrene	15.033	252	187455	14.721	ng	98
92) Benzo(g,h,i)perylene	16.780	276	70022	4.948	ng #	96

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

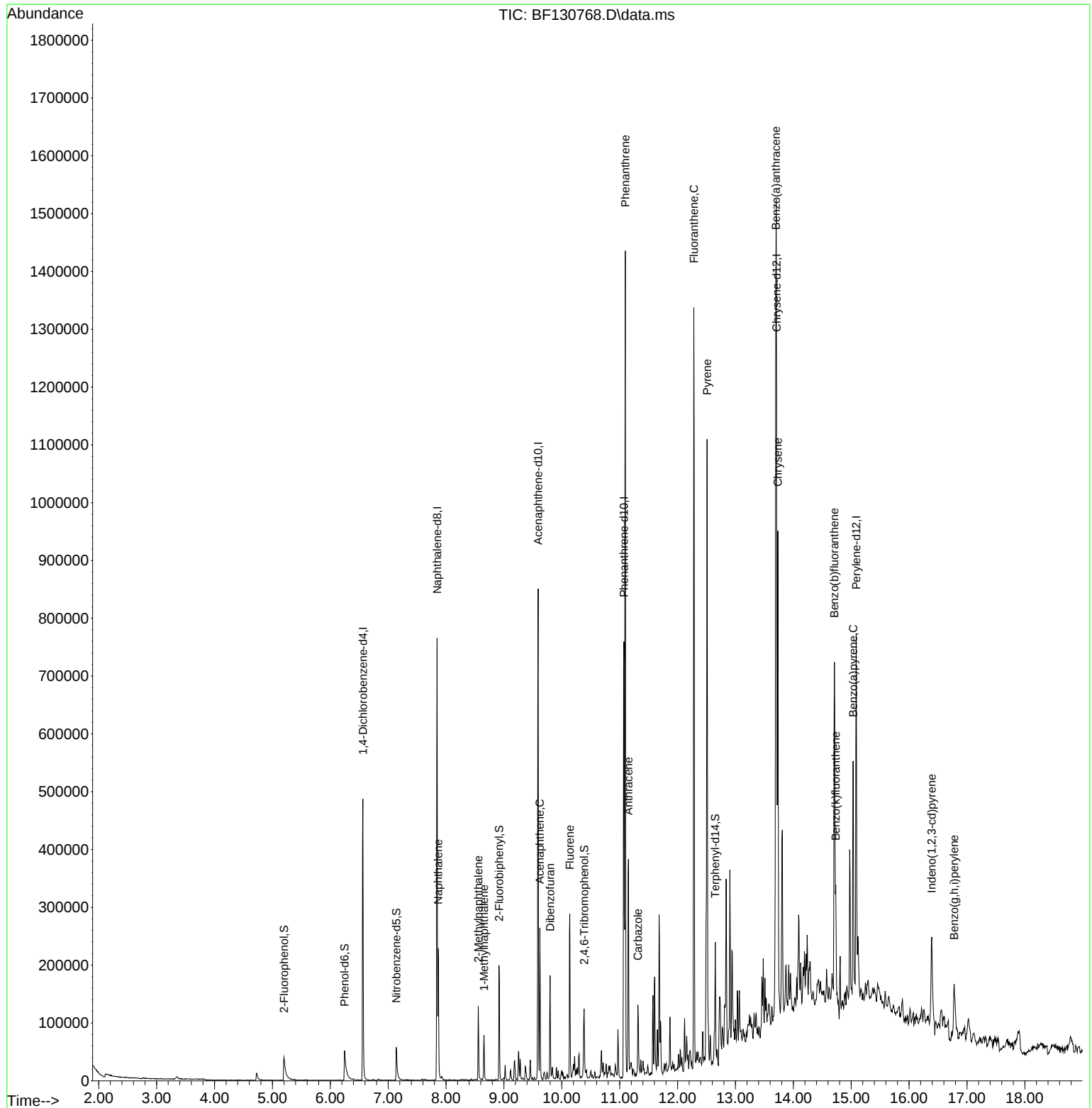
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102522\
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ALS Vial : 4 Sample Multiplier: 1

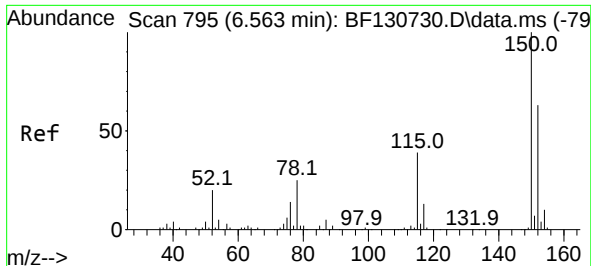
Instrument :
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Quant Time: Oct 25 15:08:12 2022
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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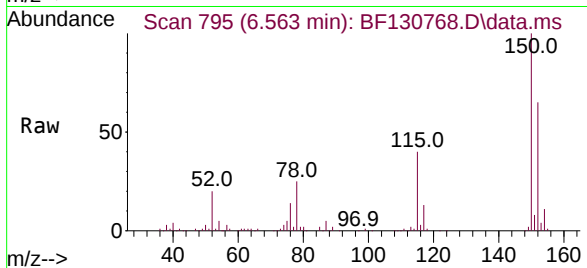
Reviewed By : Christian Giraldo 10/26/2022
Supervised By : Jagrut Upadhyay 10/27/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.563 min Scan# 795
Delta R.T. -0.000 min
Lab File: BF130768.D
Acq: 25 Oct 2022 13:51

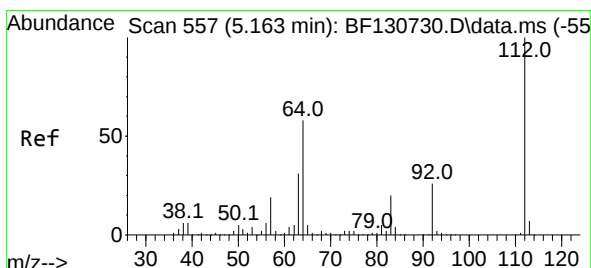
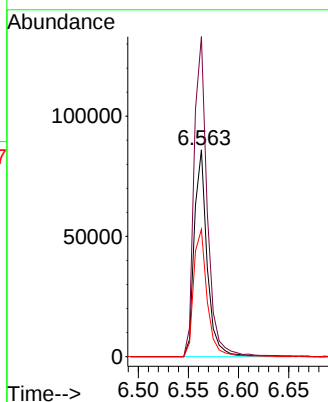
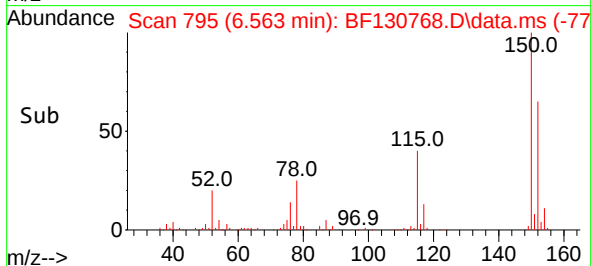
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BNA_F
ClientSampleId :
OR-3-102022DL



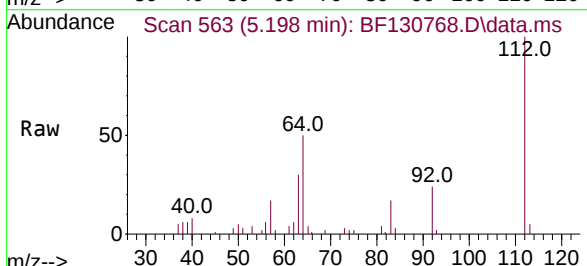
Tgt Ion:152 Resp: 76594
Ion Ratio Lower Upper
152 100
150 154.7 127.0 190.6
115 61.6 49.9 74.9

Manual Integrations
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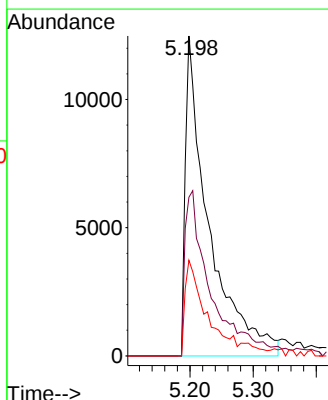
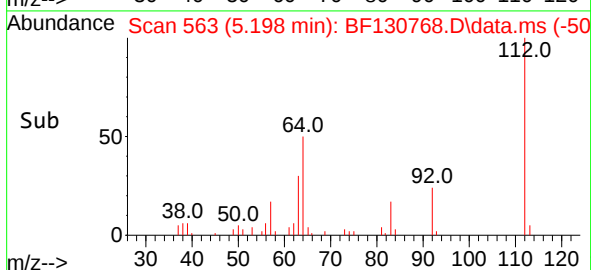
Reviewed By :Christian Giraldo 10/26/2022
Supervised By :Jagrut Upadhyay 10/27/2022

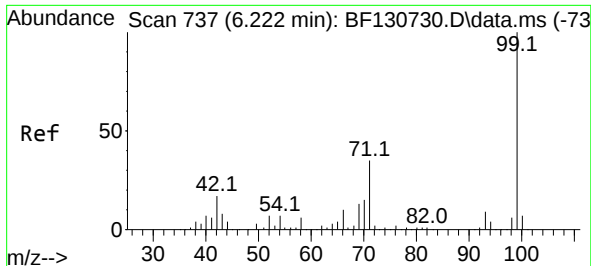


#5
2-Fluorophenol
Concen: 7.182 ng
RT: 5.198 min Scan# 563
Delta R.T. 0.035 min
Lab File: BF130768.D
Acq: 25 Oct 2022 13:51



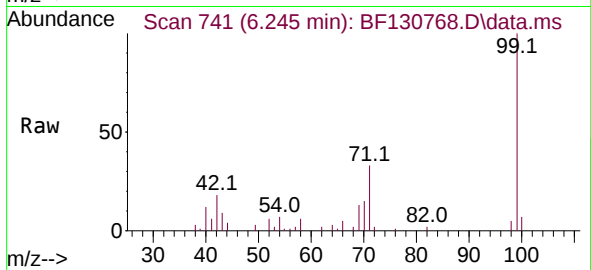
Tgt Ion:112 Resp: 31903
Ion Ratio Lower Upper
112 100
64 49.6 46.2 69.4
63 29.9 25.1 37.7





#7
Phenol-d6
Concen: 8.135 ng
RT: 6.245 min Scan# 741
Delta R.T. 0.023 min
Lab File: BF130768.D
Acq: 25 Oct 2022 13:51

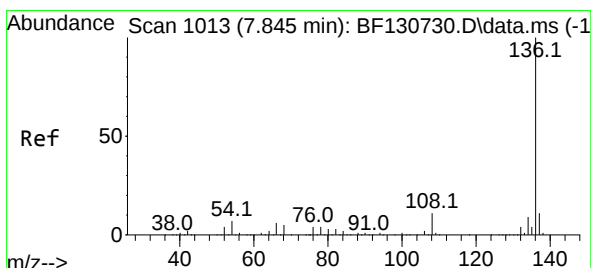
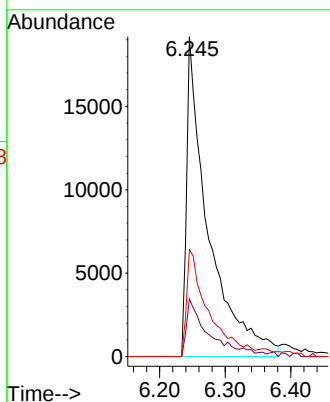
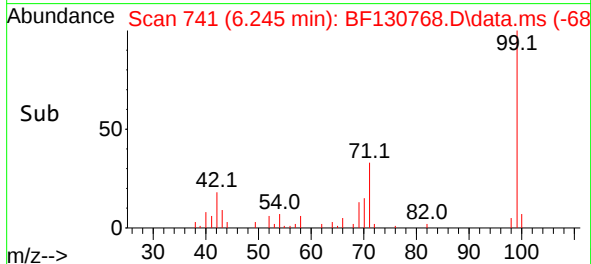
Instrument :
BNA_F
ClientSampleId :
OR-3-102022DL



Tgt Ion: 99 Resp: 43718
Ion Ratio Lower Upper
99 100
42 18.0 13.8 20.8
71 33.4 28.3 42.5

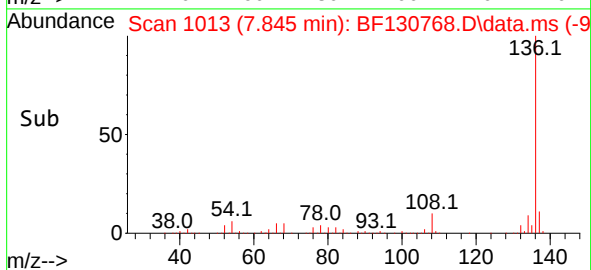
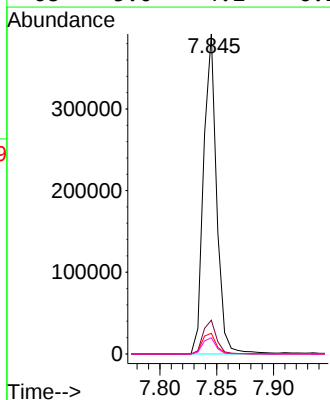
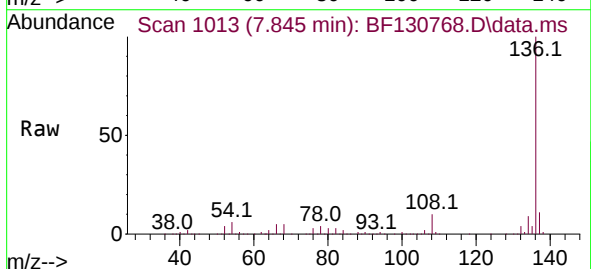
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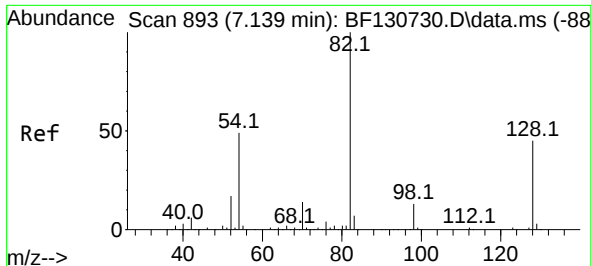
Reviewed By :Christian Giraldo 10/26/2022
Supervised By :Jagrut Upadhyay 10/27/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.845 min Scan# 1013
Delta R.T. 0.000 min
Lab File: BF130768.D
Acq: 25 Oct 2022 13:51

Tgt Ion:136 Resp: 313653
Ion Ratio Lower Upper
136 100
137 10.5 9.1 13.7
54 6.4 5.8 8.8
68 5.0 4.2 6.2





#23
Nitrobenzene-d5
Concen: 4.588 ng
RT: 7.139 min Scan# 893
Delta R.T. 0.000 min
Lab File: BF130768.D
Acq: 25 Oct 2022 13:51

Instrument :

BNA_F

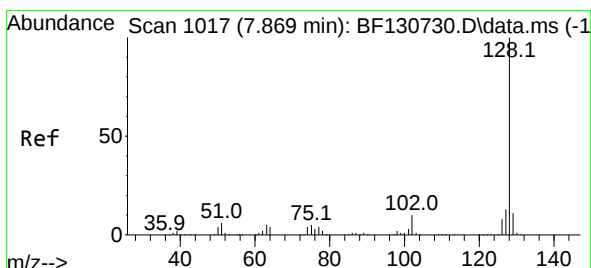
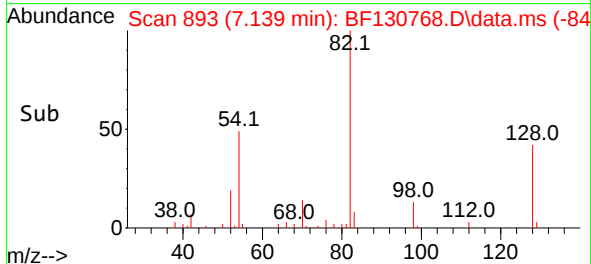
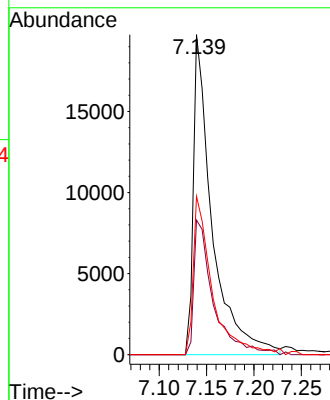
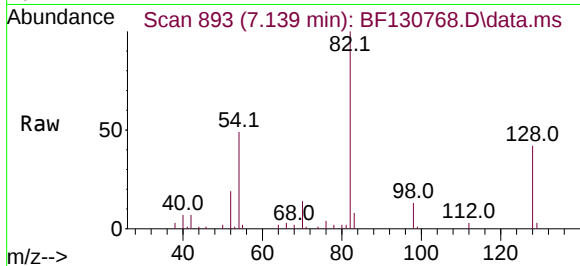
ClientSampleId :

OR-3-102022DL

Tgt Ion: 82 Resp: 27129
Ion Ratio Lower Upper
82 100
128 42.0 35.9 53.9
54 49.5 39.2 58.8

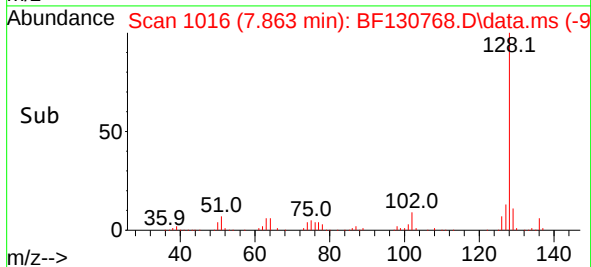
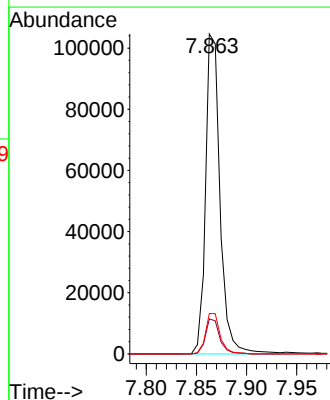
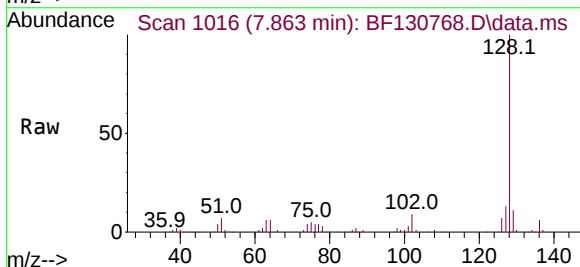
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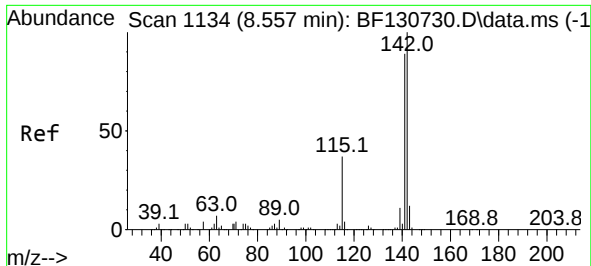
Reviewed By :Christian Giraldo 10/26/2022
Supervised By :Jagrut Upadhyay 10/27/2022



#31
Naphthalene
Concen: 6.473 ng
RT: 7.863 min Scan# 1016
Delta R.T. -0.006 min
Lab File: BF130768.D
Acq: 25 Oct 2022 13:51

Tgt Ion:128 Resp: 104681
Ion Ratio Lower Upper
128 100
129 10.9 8.9 13.3
127 12.6 10.6 16.0





#37

2-Methylnaphthalene

Concen: 3.156 ng

RT: 8.557 min Scan# 1134

Delta R.T. -0.000 min

Lab File: BF130768.D

Acq: 25 Oct 2022 13:51

Instrument :

BNA_F

ClientSampleId :

OR-3-102022DL

Tgt Ion:142 Resp: 3344

Ion Ratio Lower Upper

142 100

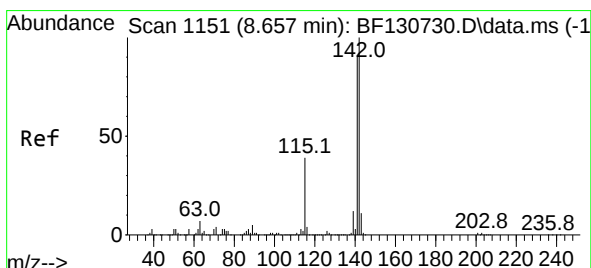
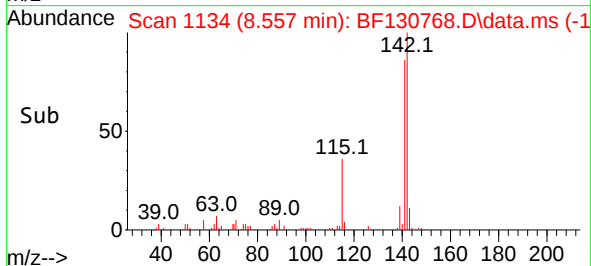
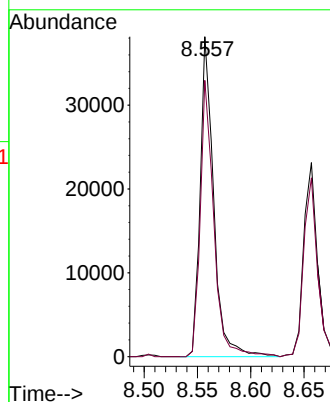
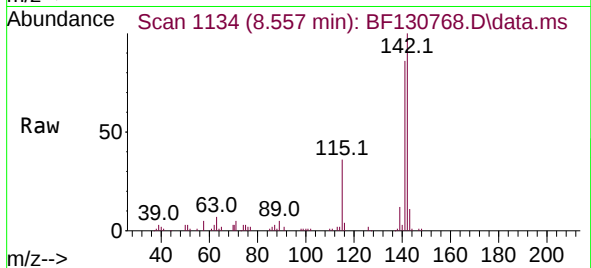
141 86.3 71.0 106.4

Manual Integrations

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Reviewed By :Christian Giraldo 10/26/2022

Supervised By :Jagrut Upadhyay 10/27/2022



#38

1-Methylnaphthalene

Concen: 2.071 ng

RT: 8.657 min Scan# 1151

Delta R.T. -0.000 min

Lab File: BF130768.D

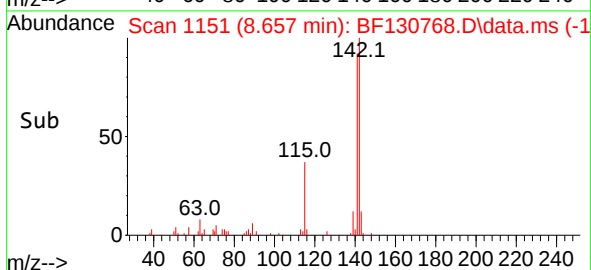
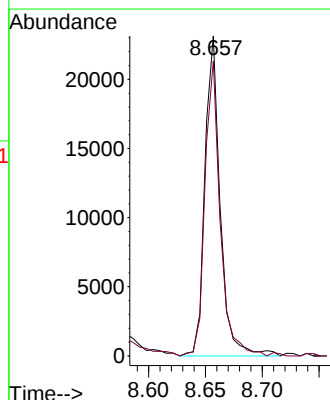
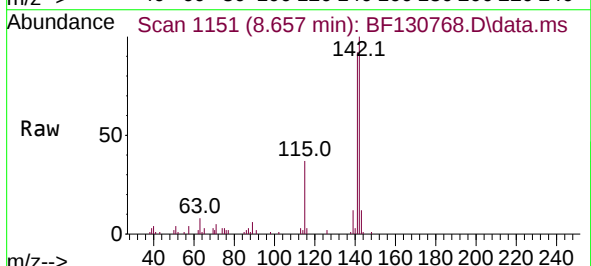
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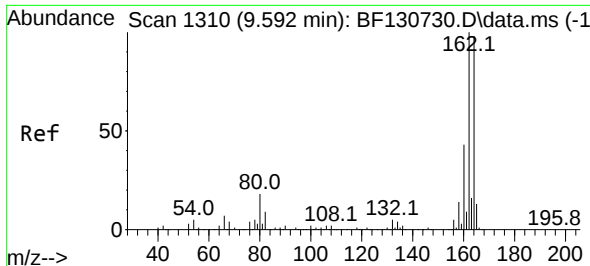
Tgt Ion:142 Resp: 21756

Ion Ratio Lower Upper

142 100

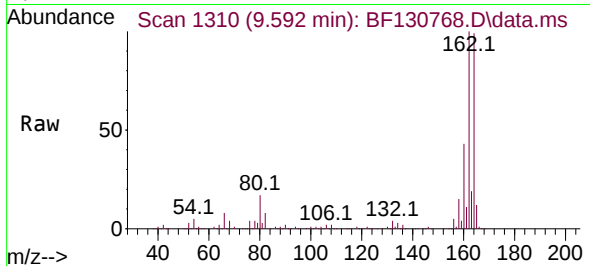
141 92.2 73.0 109.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.592 min Scan# 1310
Delta R.T. 0.000 min
Lab File: BF130768.D
Acq: 25 Oct 2022 13:51

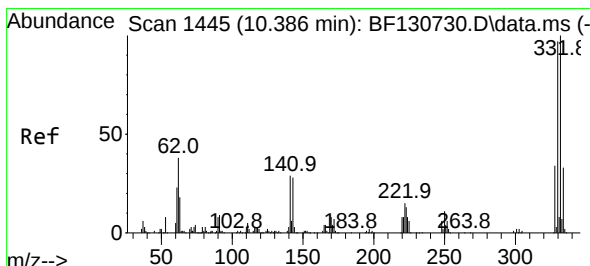
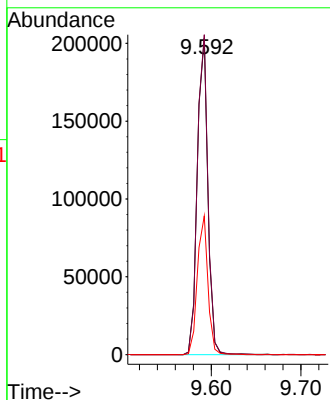
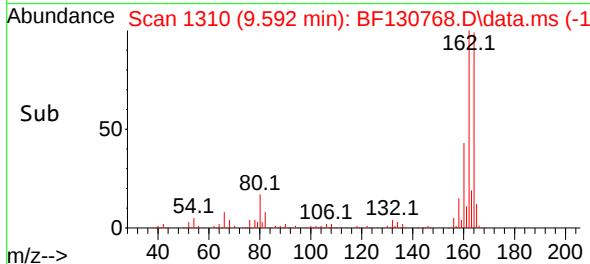
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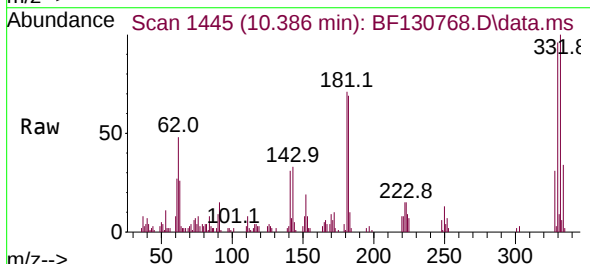
Tgt Ion:164 Resp: 166756
Ion Ratio Lower Upper
164 100
162 101.2 81.4 122.0
160 43.8 35.0 52.4

Manual Integrations
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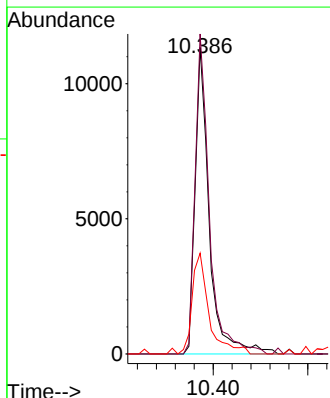
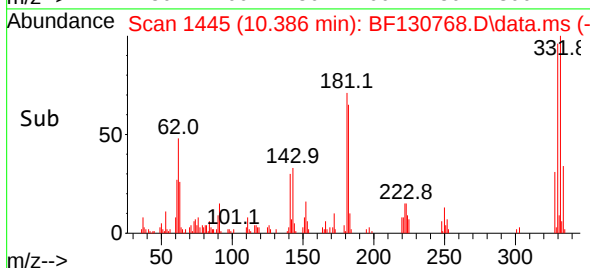
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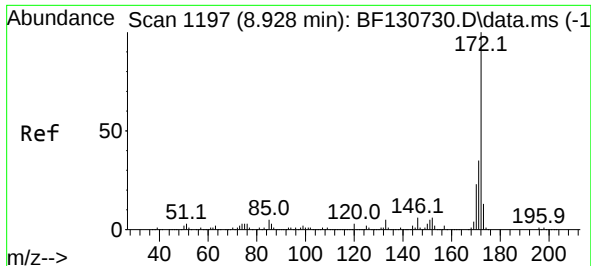


#42
2,4,6-Tribromophenol
Concen: 7.363 ng
RT: 10.386 min Scan# 1445
Delta R.T. 0.000 min
Lab File: BF130768.D
Acq: 25 Oct 2022 13:51



Tgt Ion:330 Resp: 11676
Ion Ratio Lower Upper
330 100
332 105.7 81.4 122.2
141 39.7 24.6 37.0#





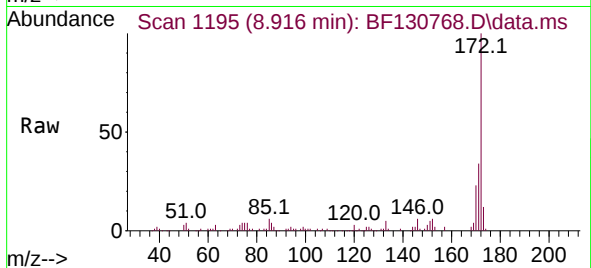
#45
2-Fluorobiphenyl
Concen: 5.410 ng
RT: 8.916 min Scan# 1195
Delta R.T. -0.012 min
Lab File: BF130768.D
Acq: 25 Oct 2022 13:51

Instrument :

BNA_F

ClientSampleId :

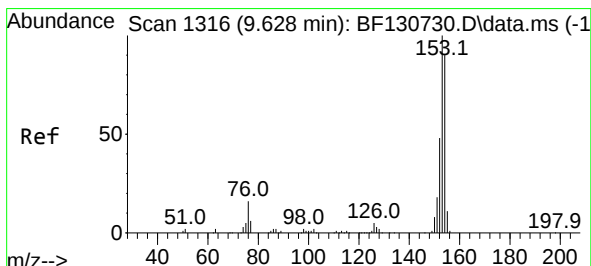
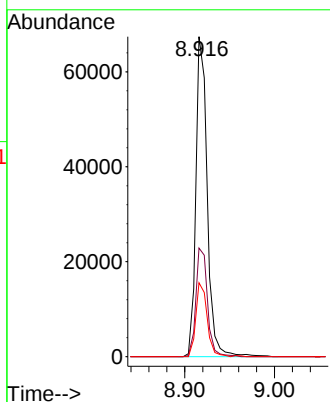
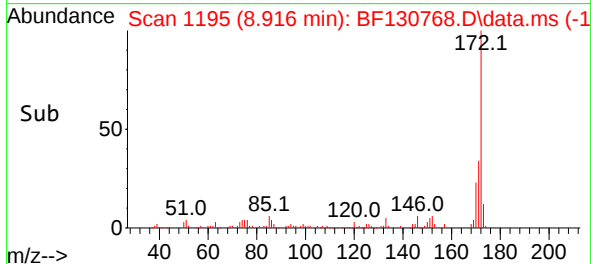
OR-3-102022DL



Tgt Ion:172 Resp: 59195
Ion Ratio Lower Upper
172 100
171 33.9 28.2 42.2
170 23.1 18.5 27.7

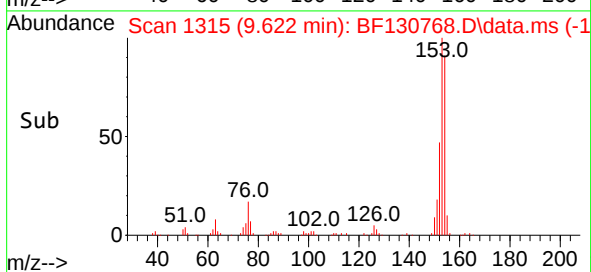
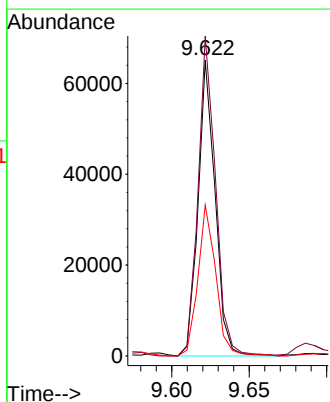
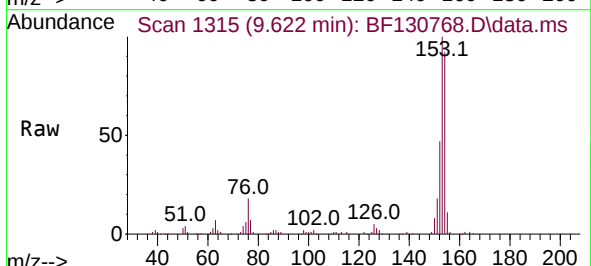
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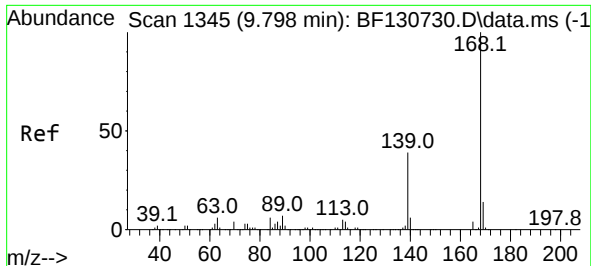
Reviewed By :Christian Giraldo 10/26/2022
Supervised By :Jagrut Upadhyay 10/27/2022



#52
Acenaphthene
Concen: 5.639 ng
RT: 9.622 min Scan# 1315
Delta R.T. -0.006 min
Lab File: BF130768.D
Acq: 25 Oct 2022 13:51

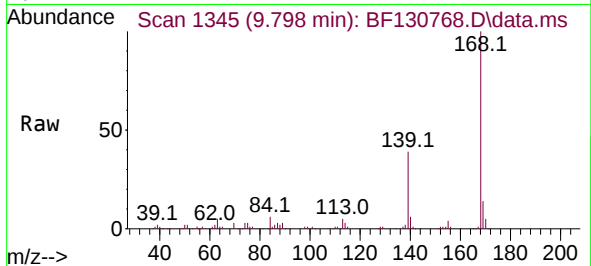
Tgt Ion:154 Resp: 49953
Ion Ratio Lower Upper
154 100
153 108.2 88.4 132.6
152 51.0 42.0 63.0





#55
Dibenzofuran
Concen: 4.314 ng
RT: 9.798 min Scan# 1345
Delta R.T. -0.000 min
Lab File: BF130768.D
Acq: 25 Oct 2022 13:51

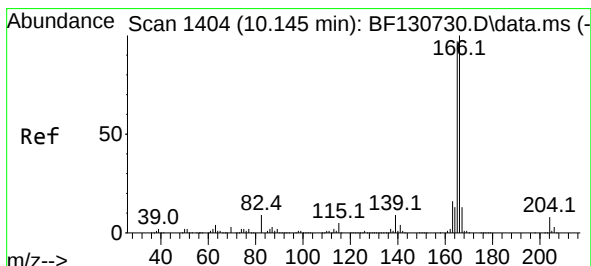
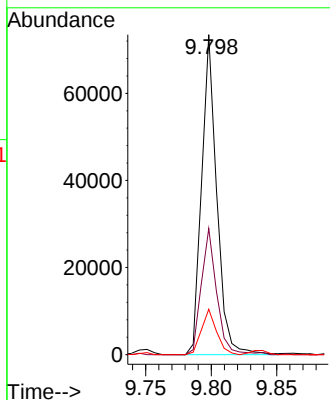
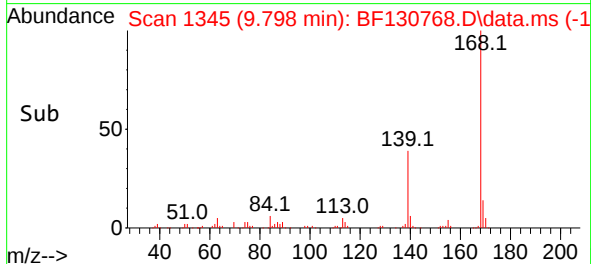
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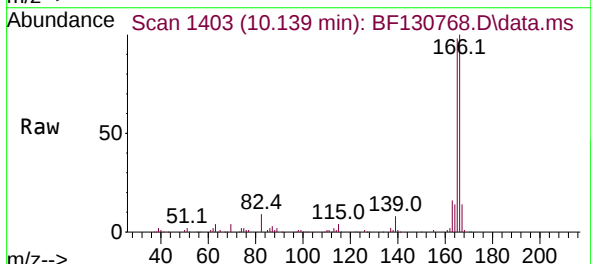
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Ion Ratio Lower Upper
168 100
139 39.4 34.3 51.5
169 14.2 11.0 16.6

Manual Integrations
APPROVED

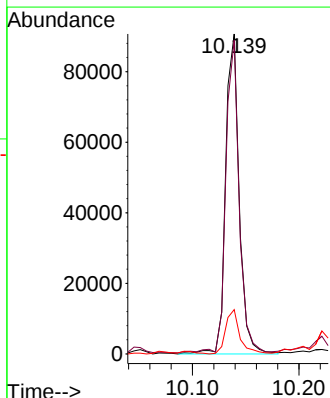
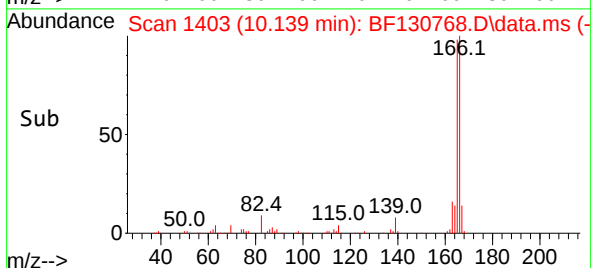
Reviewed By :Christian Giraldo 10/26/2022
Supervised By :Jagrut Upadhyay 10/27/2022

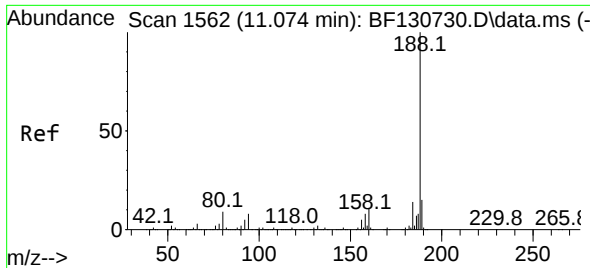


#58
Fluorene
Concen: 7.101 ng
RT: 10.139 min Scan# 1403
Delta R.T. -0.006 min
Lab File: BF130768.D
Acq: 25 Oct 2022 13:51



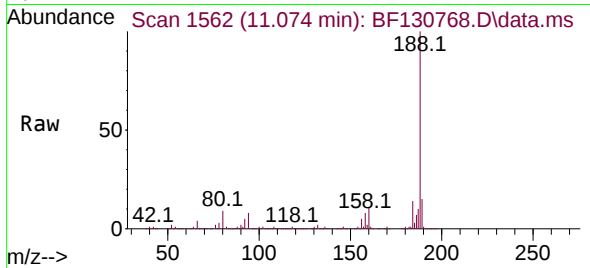
Tgt Ion:166 Resp: 80520
Ion Ratio Lower Upper
166 100
165 98.0 77.6 116.4
167 13.8 10.3 15.5





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.074 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF130768.D
Acq: 25 Oct 2022 13:51

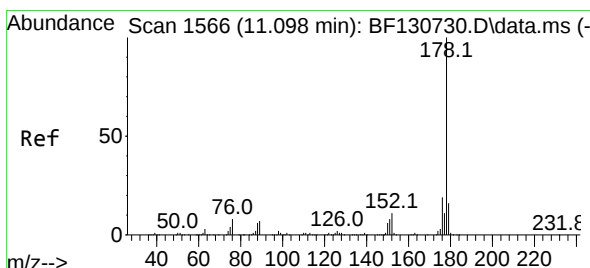
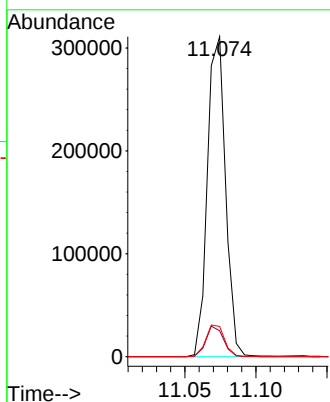
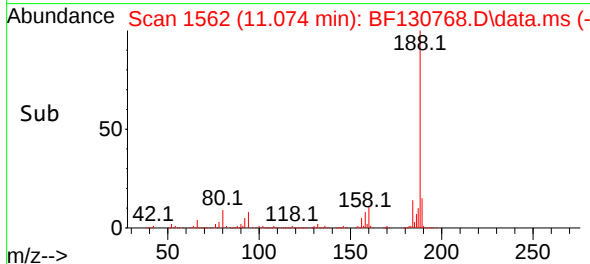
Instrument :
BNA_F
ClientSampleId :
OR-3-102022DL



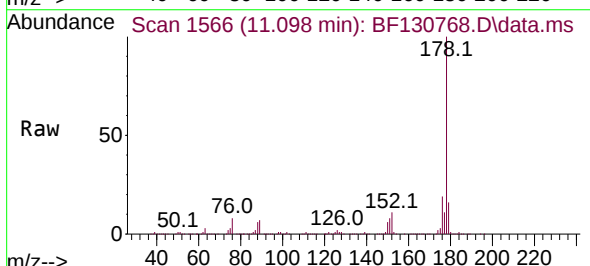
Tgt Ion:188 Resp: 276452
Ion Ratio Lower Upper
188 100
94 8.1 6.7 10.1
80 9.4 7.4 11.0

Manual Integrations
APPROVED

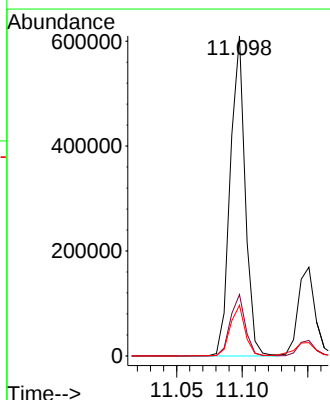
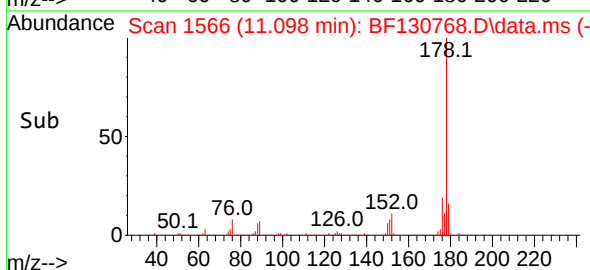
Reviewed By :Christian Giraldo 10/26/2022
Supervised By :Jagrut Upadhyay 10/27/2022

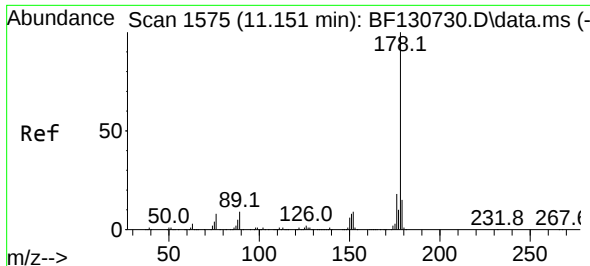


#71
Phenanthrene
Concen: 31.943 ng
RT: 11.098 min Scan# 1566
Delta R.T. -0.000 min
Lab File: BF130768.D
Acq: 25 Oct 2022 13:51



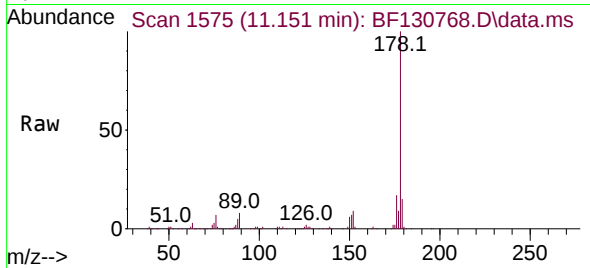
Tgt Ion:178 Resp: 484254
Ion Ratio Lower Upper
178 100
176 19.2 15.1 22.7
179 15.8 12.4 18.6





#72
 Anthracene
 Concen: 9.938 ng
 RT: 11.151 min Scan# 1575
 Delta R.T. -0.000 min
 Lab File: BF130768.D
 Acq: 25 Oct 2022 13:51

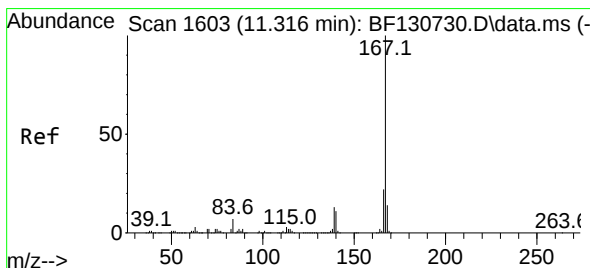
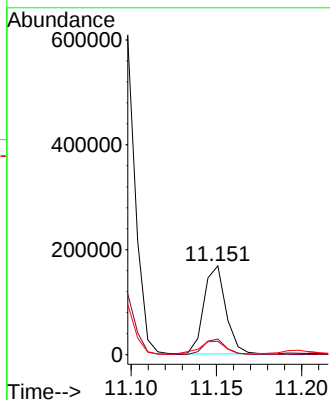
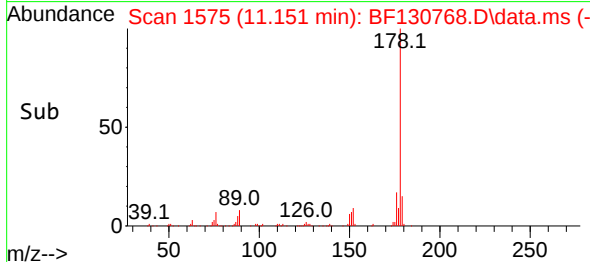
Instrument :
 BNA_F
 ClientSampleId :
 OR-3-102022DL



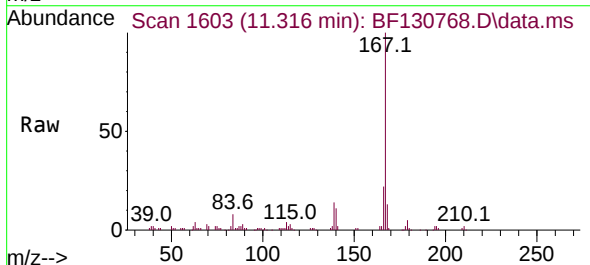
Tgt Ion:178 Resp: 150353
 Ion Ratio Lower Upper
 178 100
 176 17.4 14.6 21.8
 179 14.9 12.4 18.6

Manual Integrations
 APPROVED

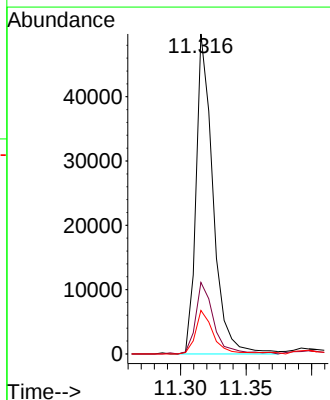
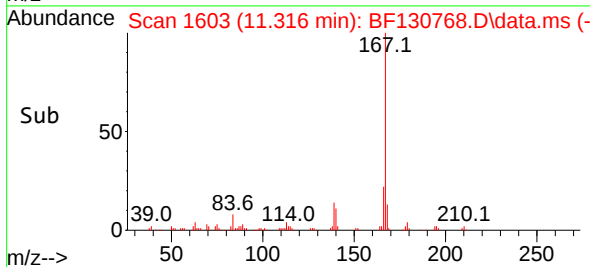
Reviewed By :Christian Giraldo 10/26/2022
 Supervised By :Jagrut Upadhyay 10/27/2022

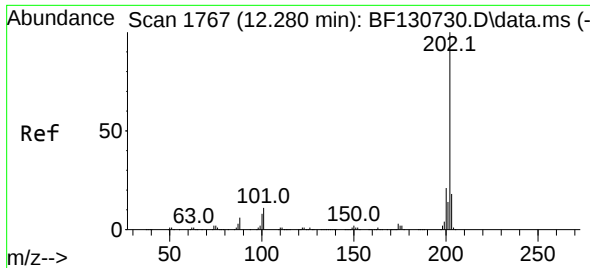


#73
 Carbazole
 Concen: 3.192 ng
 RT: 11.316 min Scan# 1603
 Delta R.T. -0.000 min
 Lab File: BF130768.D
 Acq: 25 Oct 2022 13:51



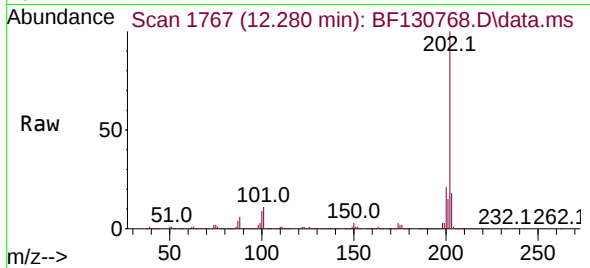
Tgt Ion:167 Resp: 44585
 Ion Ratio Lower Upper
 167 100
 166 22.3 17.3 25.9
 139 13.6 10.7 16.1





#75
Fluoranthene
Concen: 32.926 ng
RT: 12.280 min Scan# 1767
Delta R.T. -0.000 min
Lab File: BF130768.D
Acq: 25 Oct 2022 13:51

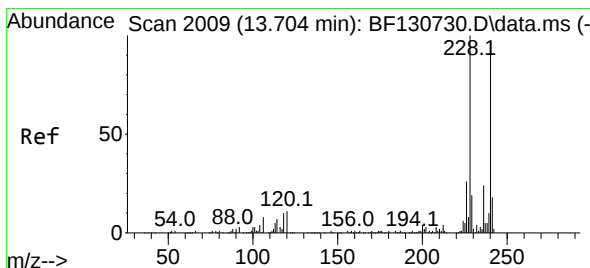
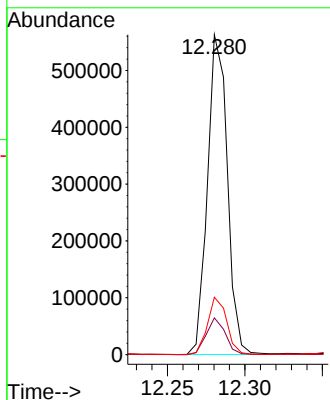
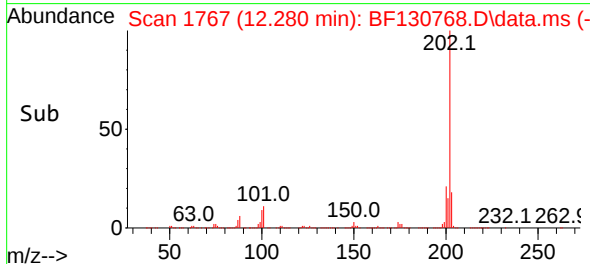
Instrument :
BNA_F
ClientSampleId :
OR-3-102022DL



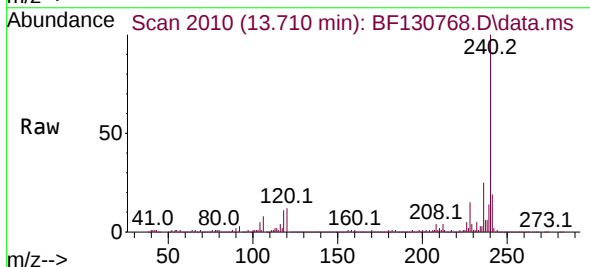
Tgt Ion:202 Resp: 504630
Ion Ratio Lower Upper
202 100
101 11.5 0.0 31.0
203 17.9 0.0 37.6

Manual Integrations
APPROVED

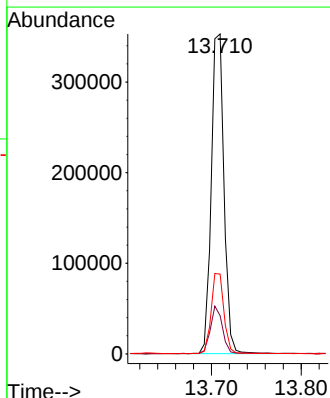
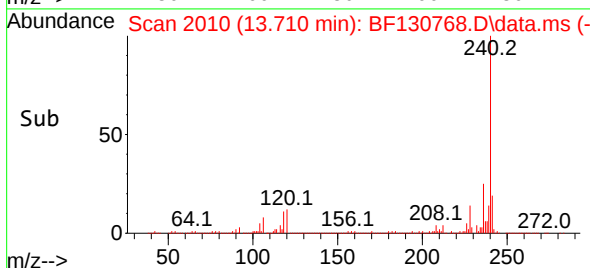
Reviewed By :Christian Giraldo 10/26/2022
Supervised By :Jagrut Upadhyay 10/27/2022

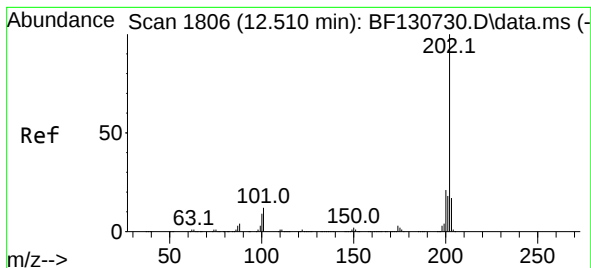


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.710 min Scan# 2010
Delta R.T. 0.006 min
Lab File: BF130768.D
Acq: 25 Oct 2022 13:51



Tgt Ion:240 Resp: 346990
Ion Ratio Lower Upper
240 100
120 11.9 9.6 14.4
236 25.0 20.2 30.2





#78

Pyrene

Concen: 14.228 ng

RT: 12.510 min Scan# 1806

Delta R.T. -0.000 min

Lab File: BF130768.D

Acq: 25 Oct 2022 13:51

Instrument :

BNA_F

ClientSampleId :

OR-3-102022DL

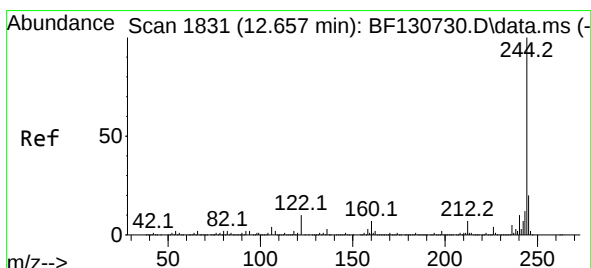
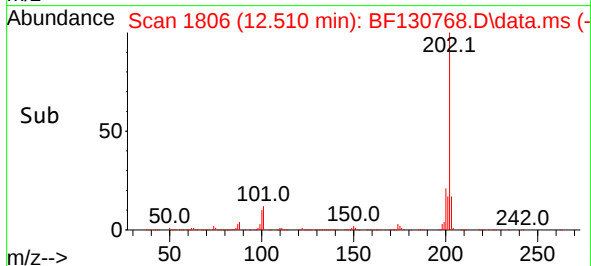
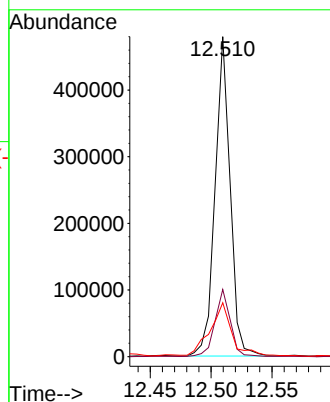
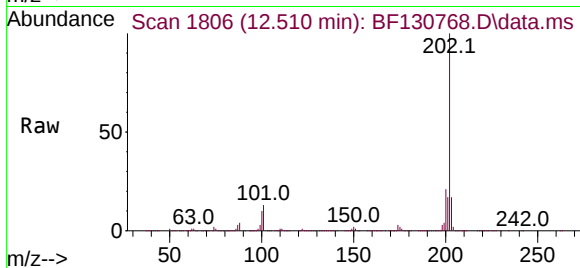
Tgt Ion:202 Resp: 414400

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	16.8	13.8	20.8

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/26/2022
Supervised By :Jagrut Upadhyay 10/27/2022



#79

Terphenyl-d14

Concen: 2.973 ng

RT: 12.651 min Scan# 1830

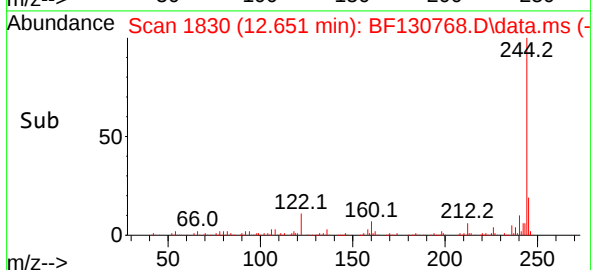
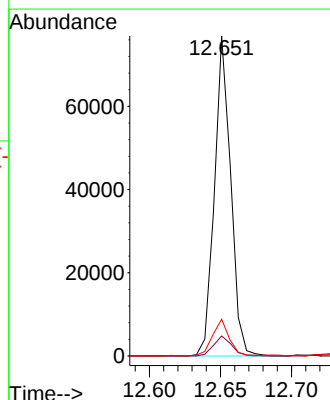
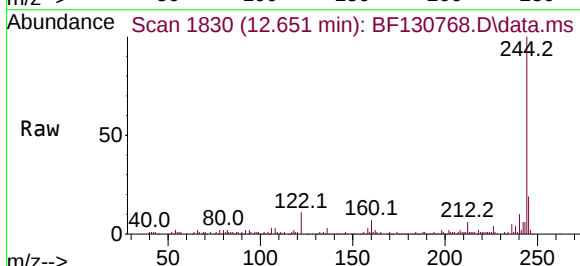
Delta R.T. -0.006 min

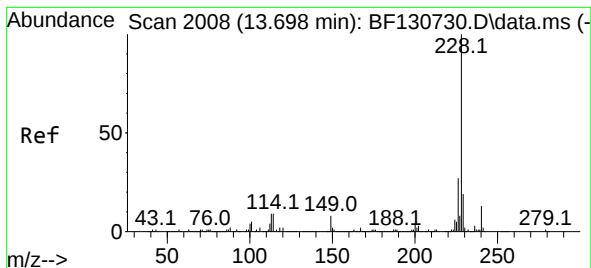
Lab File: BF130768.D

Acq: 25 Oct 2022 13:51

Tgt Ion:244 Resp: 61226

Ion	Ratio	Lower	Upper
244	100		
212	6.2	5.4	8.0
122	11.5	8.2	12.4





#81

Benzo(a)anthracene

Concen: 15.426 ng

RT: 13.698 min Scan# 2008

Delta R.T. -0.000 min

Lab File: BF130768.D

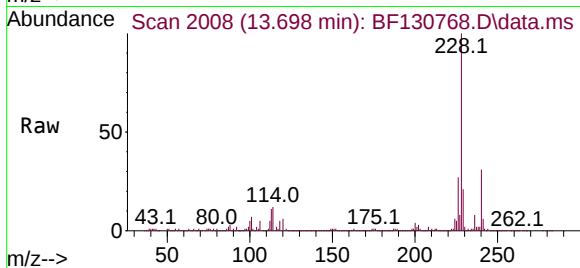
Acq: 25 Oct 2022 13:51

Instrument :

BNA_F

ClientSampleId :

OR-3-102022DL



Tgt Ion:228 Resp: 357662

Ion Ratio Lower Upper

228 100

226 27.1 21.8 32.8

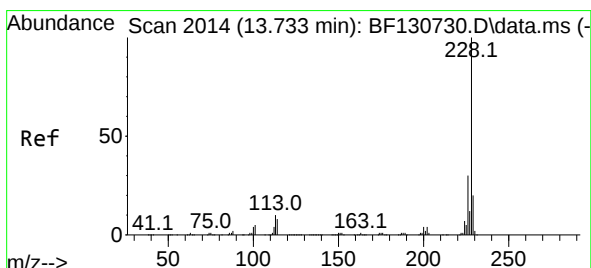
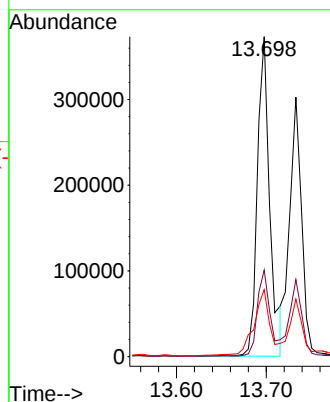
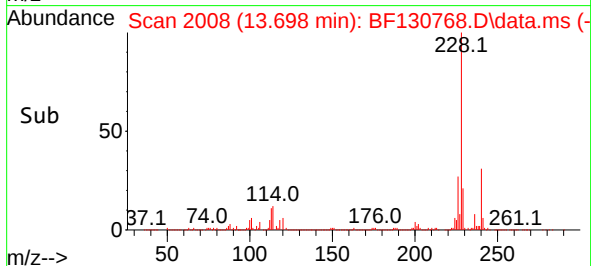
229 20.9 15.4 23.2

Manual Integrations

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Reviewed By :Christian Giraldo 10/26/2022

Supervised By :Jagrut Upadhyay 10/27/2022



#83

Chrysene

Concen: 12.480 ng

RT: 13.733 min Scan# 2014

Delta R.T. -0.000 min

Lab File: BF130768.D

Acq: 25 Oct 2022 13:51

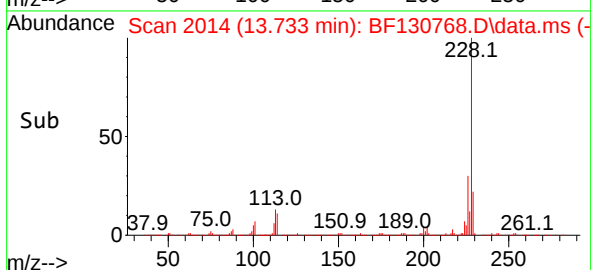
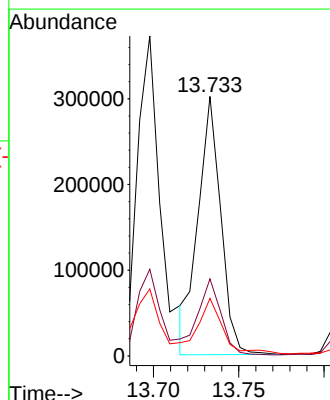
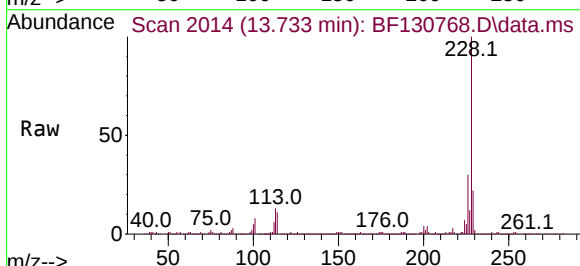
Tgt Ion:228 Resp: 280355

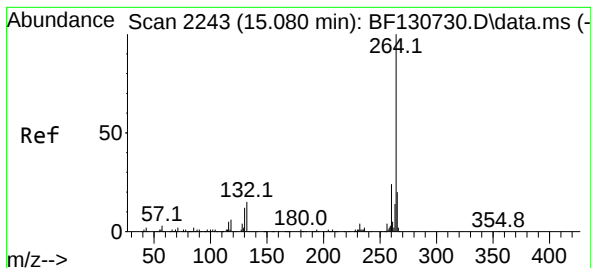
Ion Ratio Lower Upper

228 100

226 29.7 23.6 35.4

229 22.2 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.086 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF130768.D

Acq: 25 Oct 2022 13:51

Instrument :

BNA_F

ClientSampleId :

OR-3-102022DL

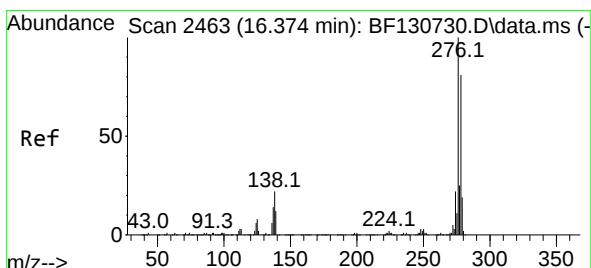
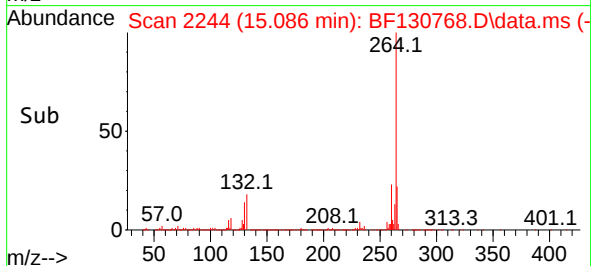
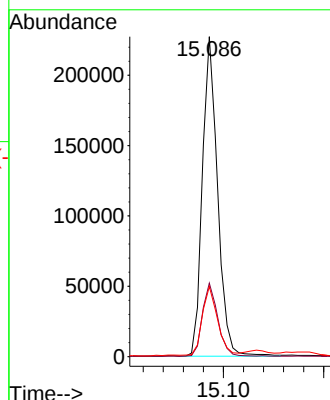
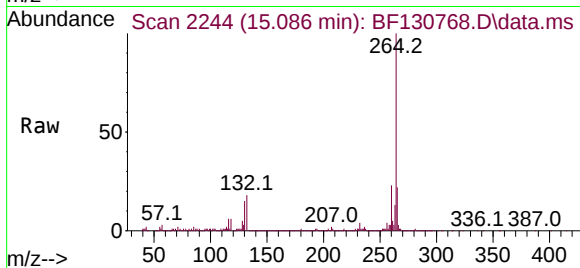
Tgt Ion:264 Resp: 238112

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.8	28.2
265	21.9	16.2	24.4

Manual Integrations

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Supervised By :Jagrut Upadhyay 10/27/2022



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.130 ng

RT: 16.392 min Scan# 2466

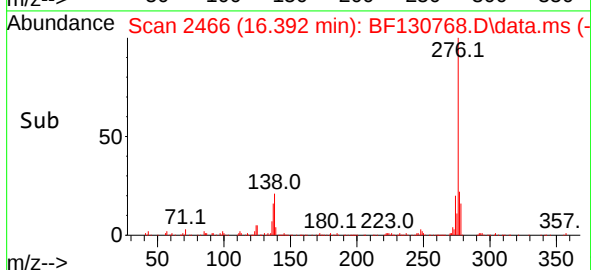
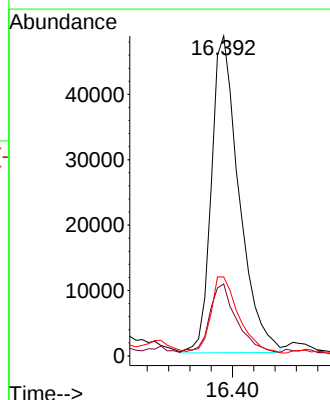
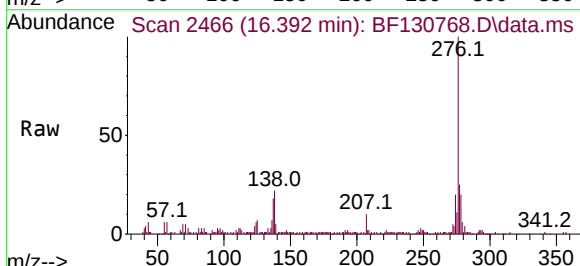
Delta R.T. 0.018 min

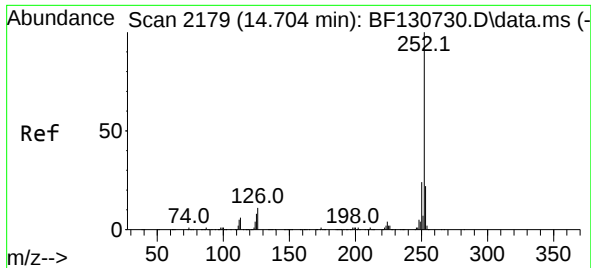
Lab File: BF130768.D

Acq: 25 Oct 2022 13:51

Tgt Ion:276 Resp: 87609

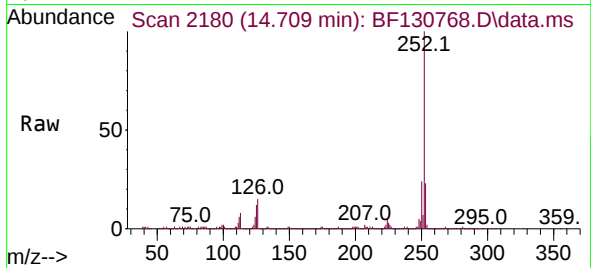
Ion	Ratio	Lower	Upper
276	100		
138	20.8	17.2	25.8
277	24.3	20.1	30.1





#88
Benzo(b)fluoranthene
Concen: 18.808 ng m
RT: 14.709 min Scan# 2179
Delta R.T. 0.006 min
Lab File: BF130768.D
Acq: 25 Oct 2022 13:51

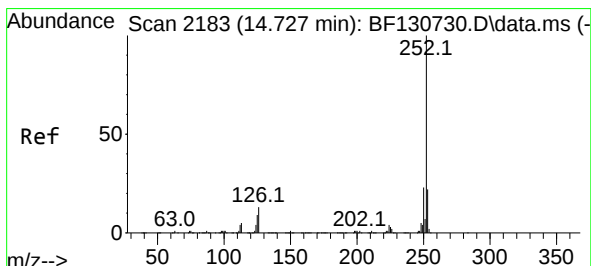
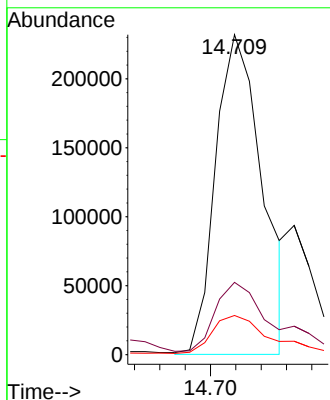
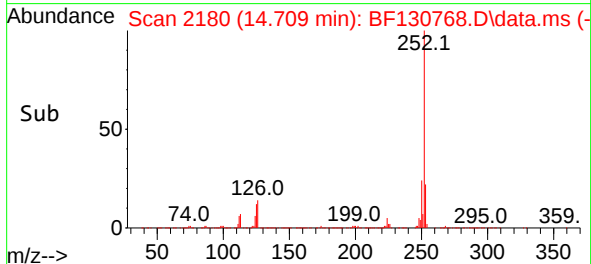
Instrument :
BNA_F
ClientSampleId :
OR-3-102022DL



Tgt Ion:252 Resp: 29818
Ion Ratio Lower Upper
252 100
253 22.6 17.4 26.0
125 12.2 6.4 9.6

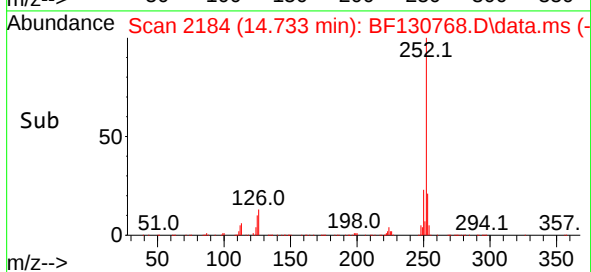
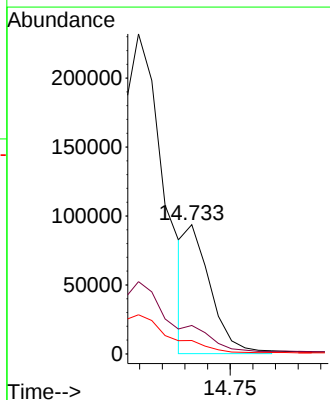
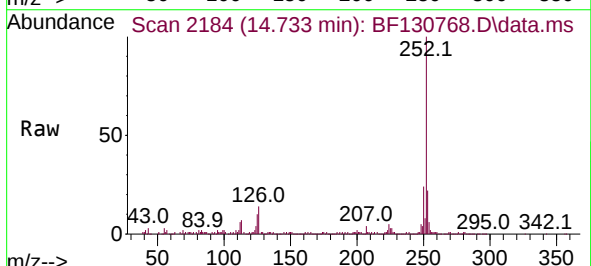
Manual Integrations
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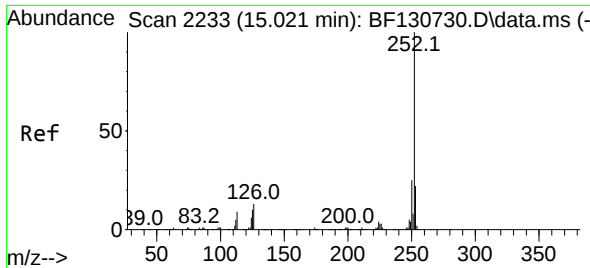
Reviewed By :Christian Giraldo 10/26/2022
Supervised By :Jagrut Upadhyay 10/27/2022



#89
Benzo(k)fluoranthene
Concen: 4.486 ng m
RT: 14.733 min Scan# 2184
Delta R.T. 0.006 min
Lab File: BF130768.D
Acq: 25 Oct 2022 13:51

Tgt Ion:252 Resp: 71456
Ion Ratio Lower Upper
252 100
253 22.0 17.7 26.5
125 10.3 7.2 10.8





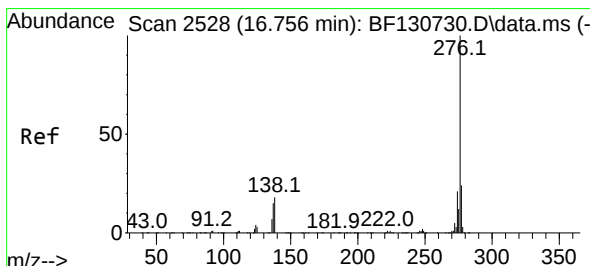
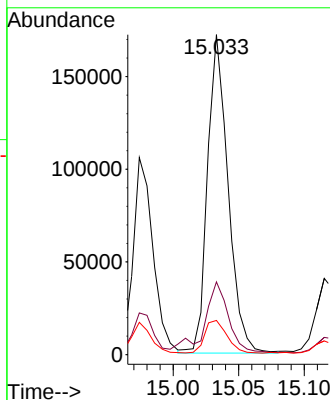
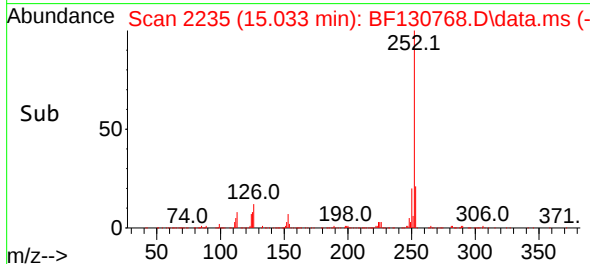
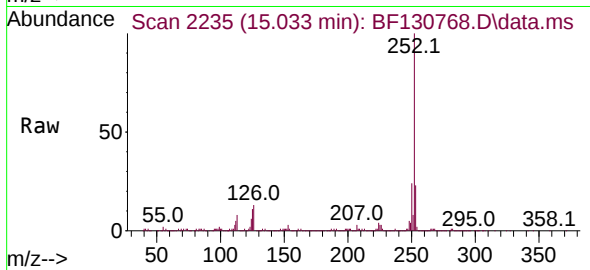
#90
Benzo(a)pyrene
Concen: 14.721 ng
RT: 15.033 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF130768.D
Acq: 25 Oct 2022 13:51

Instrument :
BNA_F
ClientSampleId :
OR-3-102022DL

Tgt Ion:252 Resp: 18745
Ion Ratio Lower Upper
252 100
253 22.7 17.4 26.0
125 10.7 8.3 12.5

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 10/26/2022
Supervised By :Jagrut Upadhyay 10/27/2022



#92
Benzo(g,h,i)perylene
Concen: 4.948 ng
RT: 16.780 min Scan# 2532
Delta R.T. 0.023 min
Lab File: BF130768.D
Acq: 25 Oct 2022 13:51

Tgt Ion:276 Resp: 70022
Ion Ratio Lower Upper
276 100
277 24.5 19.1 28.7
138 21.3 14.2 21.2#

