

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122322\
 Data File : BF131818.D
 Acq On : 23 Dec 2022 21:28
 Operator : CG\JU
 Sample : N6088-01DL 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-27-5B01DL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 12/24/2022
 Supervised By : Jagrut Upadhyay 12/24/2022

Quant Time: Dec 24 03:11:22 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122022.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Dec 24 00:05:44 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	76697	20.000	ng	0.00
21) Naphthalene-d8	8.140	136	255161	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	126011	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	207637	20.000	ng	-0.01
76) Chrysene-d12	14.057	240	173945	20.000	ng	-0.01
86) Perylene-d12	15.557	264	157359	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.446	112	75173	16.504	ng	-0.01
7) Phenol-d6	6.469	99	95597	15.593	ng	-0.02
23) Nitrobenzene-d5	7.410	82	66390	10.563	ng	-0.02
42) 2,4,6-Tribromophenol	10.698	330	12046	8.734	ng	-0.01
45) 2-Fluorobiphenyl	9.216	172	106049	11.789	ng	-0.01
79) Terphenyl-d14	12.992	244	94126	8.434	ng	-0.01
Target Compounds						
						Qvalue
31) Naphthalene	8.157	128	32090	2.303	ng	97
52) Acenaphthene	9.934	154	24891	3.490	ng	98
58) Fluorene	10.451	166	28789	3.256	ng	95
71) Phenanthrene	11.422	178	240504	21.242	ng	99
72) Anthracene	11.475	178	63255	5.706	ng	98
73) Carbazole	11.633	167	27407	2.858	ng	98
75) Fluoranthene	12.622	202	347796	27.582	ng	99
78) Pyrene	12.851	202	306424	19.376	ng	100
81) Benzo(a)anthracene	14.045	228	160775	12.834	ng	99
83) Chrysene	14.080	228	141114	11.934	ng	95
84) Bis(2-ethylhexyl)phtha...	14.033	149	15066	2.265	ng	# 93
87) Indeno(1,2,3-cd)pyrene	17.062	276	51866	4.907	ng	98
88) Benzo(b)fluoranthene	15.116	252	155075m	13.929	ng	
89) Benzo(k)fluoranthene	15.139	252	51730m	4.762	ng	
90) Benzo(a)pyrene	15.492	252	108108	12.259	ng	99
92) Benzo(g,h,i)perylene	17.521	276	48034	5.564	ng	94

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

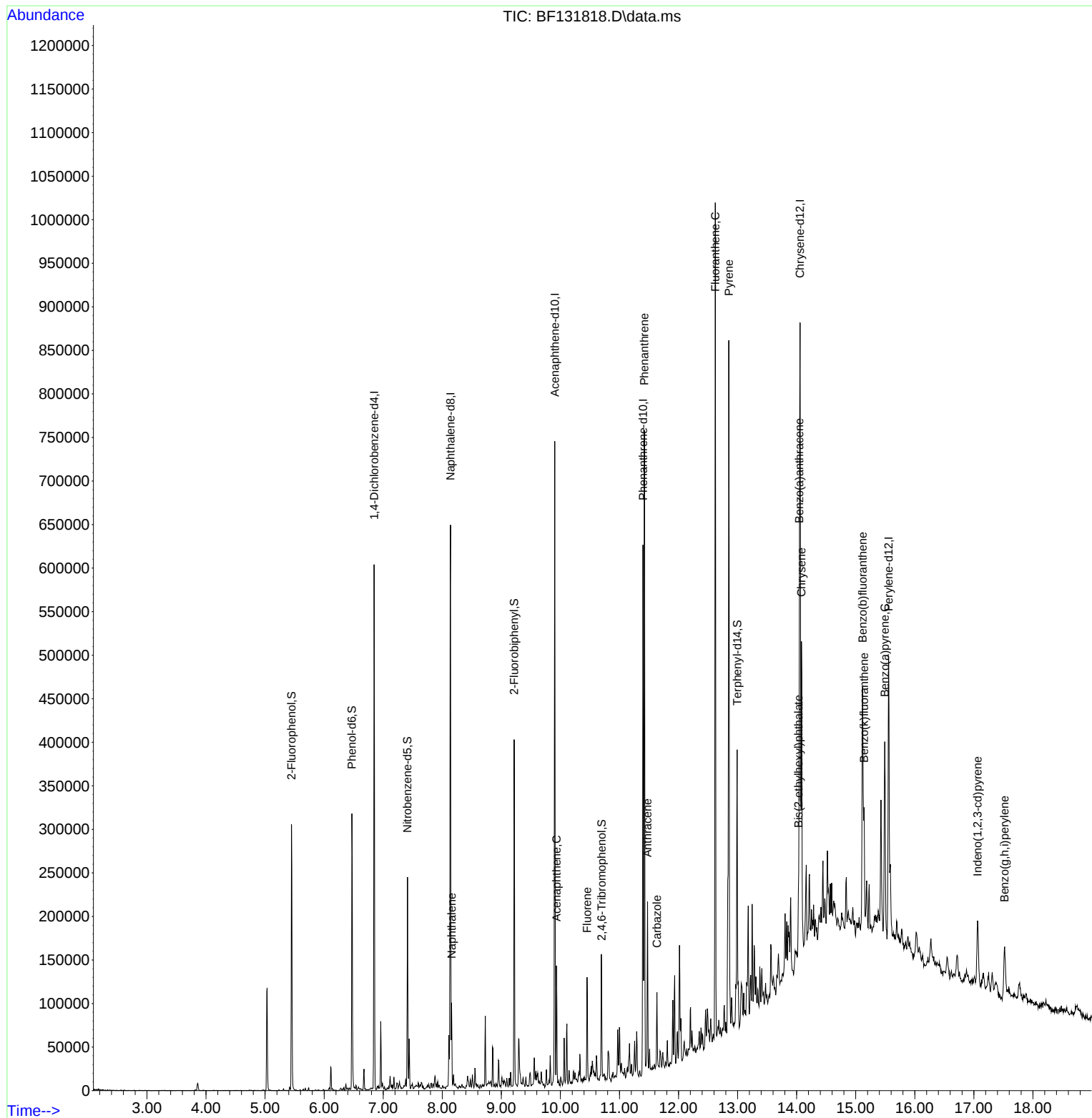
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122322\
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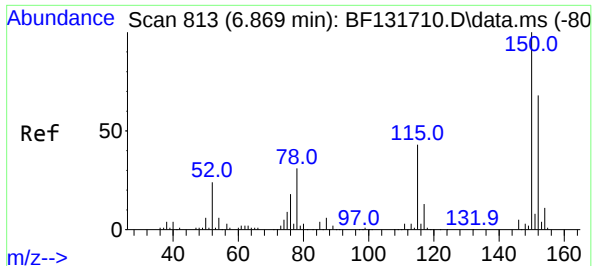
Instrument :
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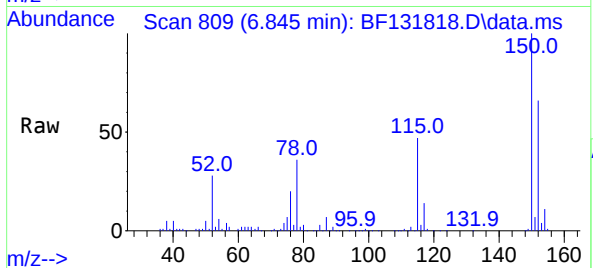
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 809
Delta R.T. -0.006 min
Lab File: BF131818.D
Acq: 23 Dec 2022 21:28

Instrument :

BNA_F

ClientSampleId :

B-27-5B01DL

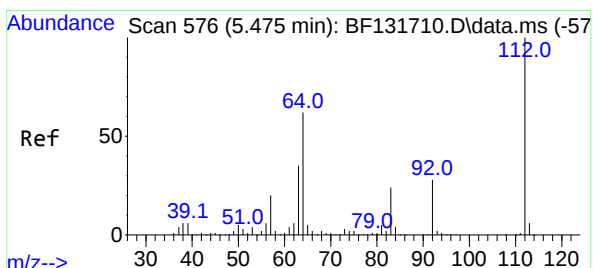
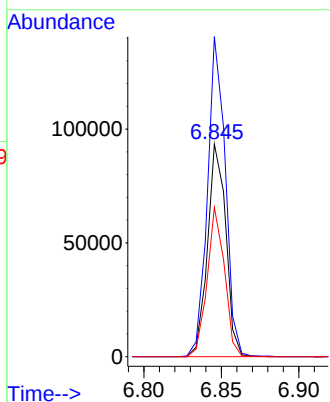
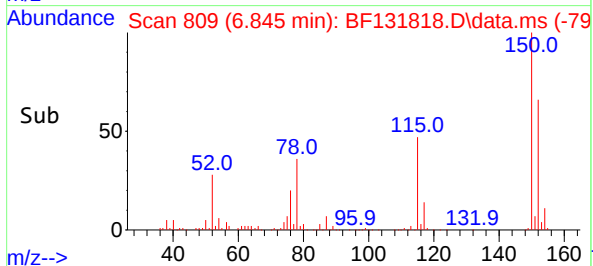


Tgt Ion:152 Resp: 7669
Ion Ratio Lower Upper
152 100
150 150.5 117.4 176.0
115 70.2 50.2 75.4

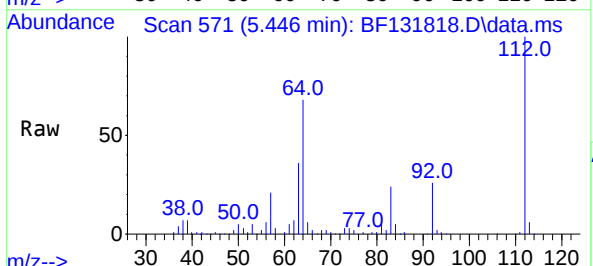
Manual Integrations

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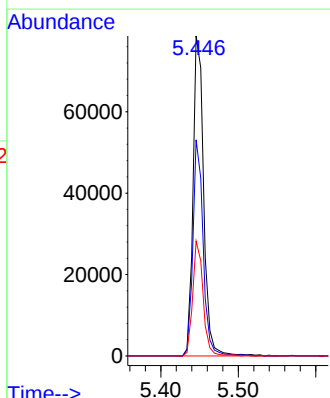
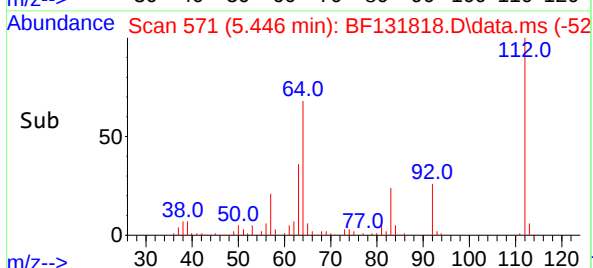
Reviewed By :Christian Giraldo 12/24/2022
Supervised By :Jagrut Upadhyay 12/24/2022

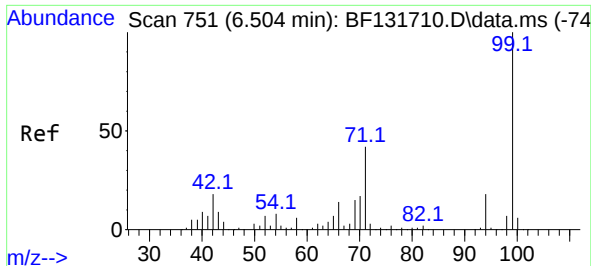


#5
2-Fluorophenol
Concen: 16.504 ng
RT: 5.446 min Scan# 571
Delta R.T. -0.012 min
Lab File: BF131818.D
Acq: 23 Dec 2022 21:28



Tgt Ion:112 Resp: 75173
Ion Ratio Lower Upper
112 100
64 67.6 49.5 74.3
63 35.9 28.2 42.2





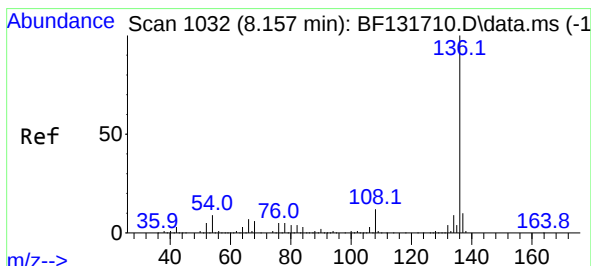
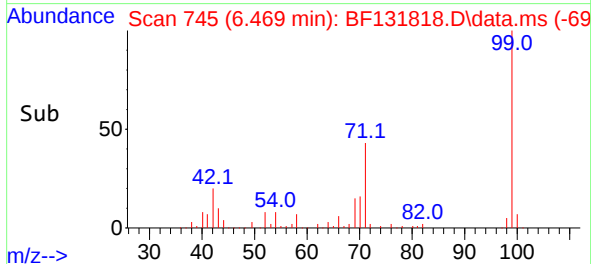
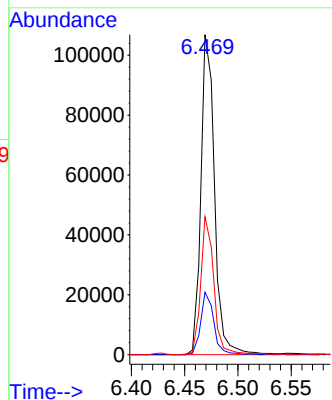
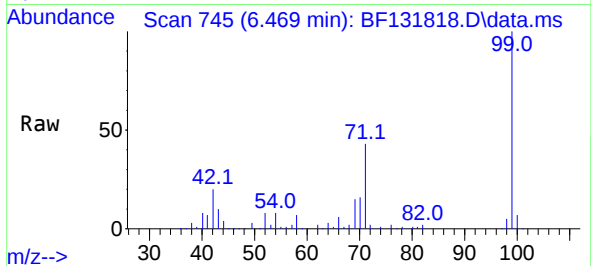
#7
Phenol-d6
Concen: 15.593 ng
RT: 6.469 min Scan# 74
Delta R.T. -0.017 min
Lab File: BF131818.D
Acq: 23 Dec 2022 21:28

Instrument :
BNA_F
ClientSampleId :
B-27-5B01DL

Tgt Ion: 99 Resp: 9559
Ion Ratio Lower Upper
99 100
42 19.5 14.8 22.2
71 43.1 33.8 50.6

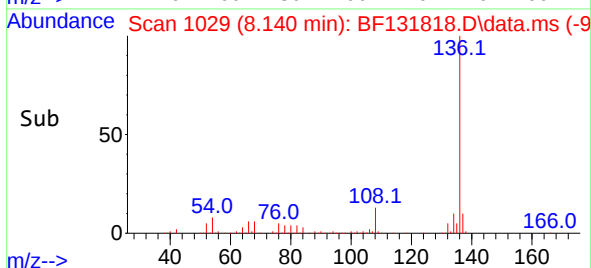
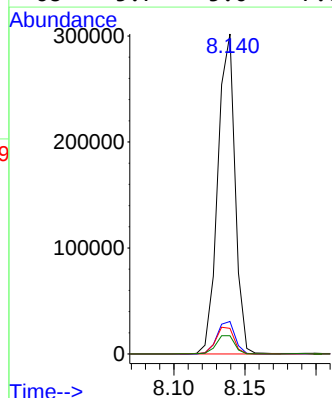
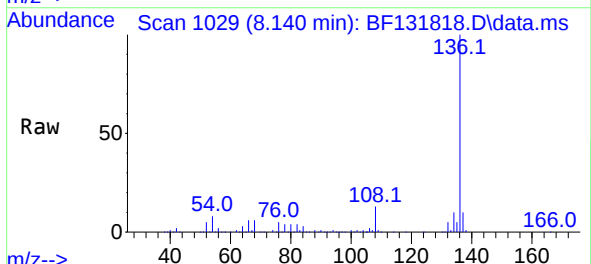
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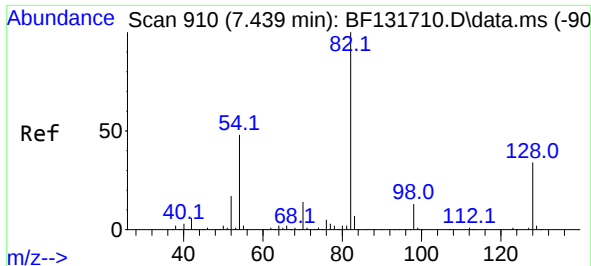
Reviewed By :Christian Giraldo 12/24/2022
Supervised By :Jagrut Upadhyay 12/24/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.140 min Scan# 1029
Delta R.T. -0.006 min
Lab File: BF131818.D
Acq: 23 Dec 2022 21:28

Tgt Ion:136 Resp: 255161
Ion Ratio Lower Upper
136 100
137 10.2 8.4 12.6
54 8.0 7.2 10.8
68 5.7 5.0 7.6





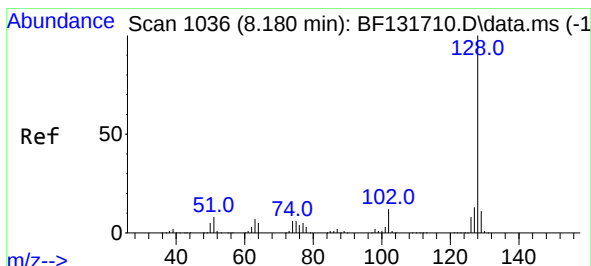
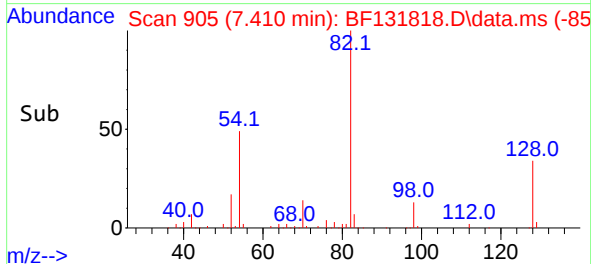
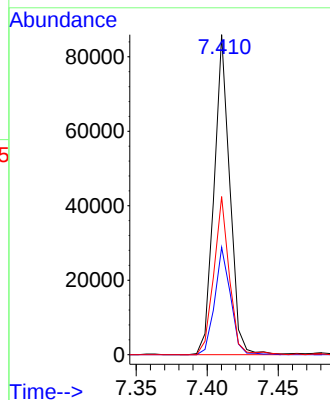
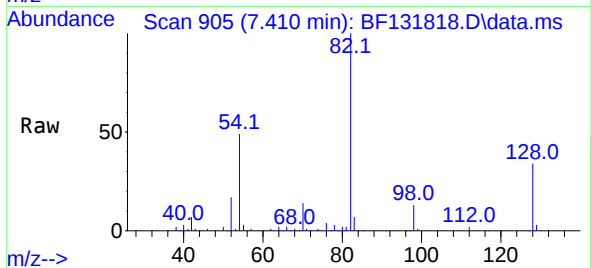
#23
Nitrobenzene-d5
Concen: 10.563 ng
RT: 7.410 min Scan# 90
Delta R.T. -0.017 min
Lab File: BF131818.D
Acq: 23 Dec 2022 21:28

Instrument :
BNA_F
ClientSampleId :
B-27-5B01DL

Tgt Ion: 82 Resp: 66390
Ion Ratio Lower Upper
82 100
128 33.6 27.3 40.9
54 49.4 38.2 57.2

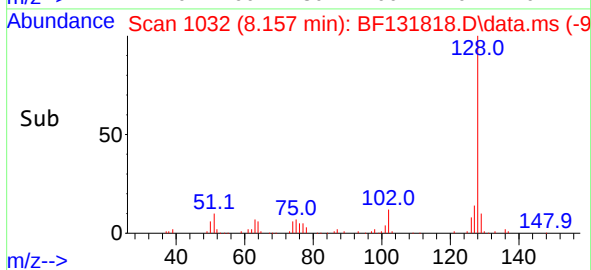
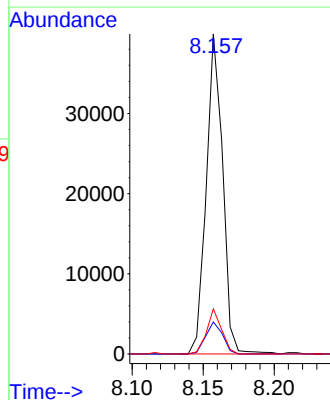
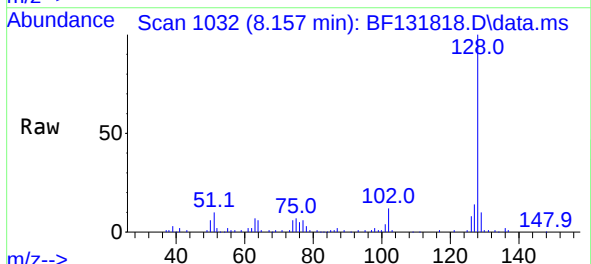
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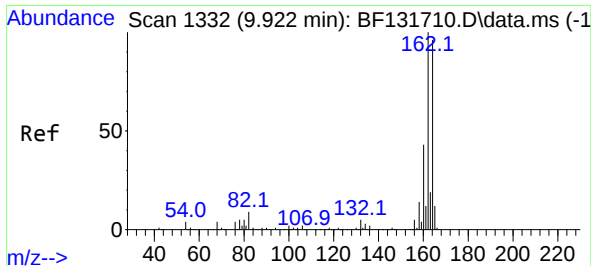
Reviewed By :Christian Giraldo 12/24/2022
Supervised By :Jagrut Upadhyay 12/24/2022



#31
Naphthalene
Concen: 2.303 ng
RT: 8.157 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF131818.D
Acq: 23 Dec 2022 21:28

Tgt Ion:128 Resp: 32090
Ion Ratio Lower Upper
128 100
129 10.0 8.9 13.3
127 14.1 10.6 15.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.904 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF131818.D

Acq: 23 Dec 2022 21:28

Instrument :

BNA_F

ClientSampleId :

B-27-5B01DL

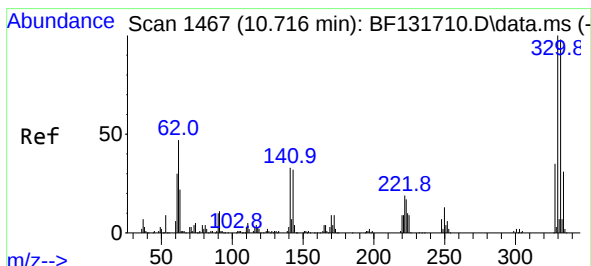
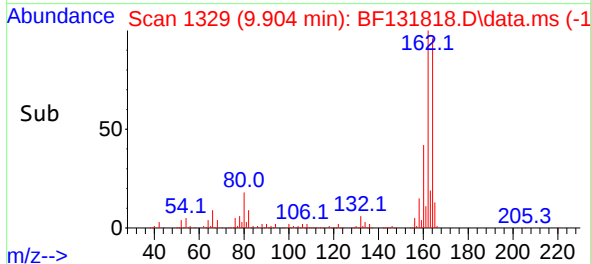
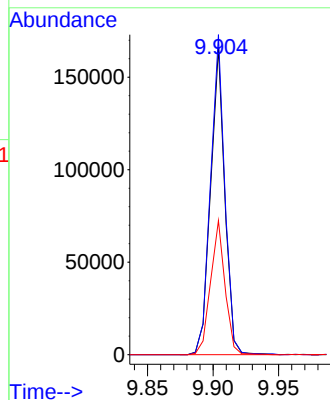
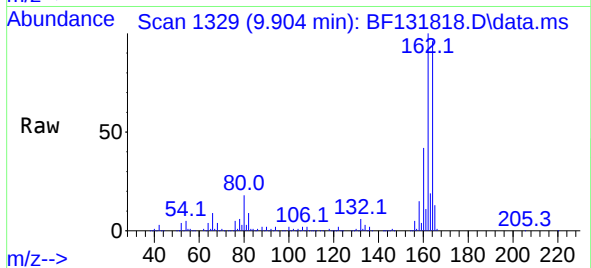
Tgt Ion:164 Resp: 12601

Ion	Ratio	Lower	Upper
164	100		
162	104.2	83.7	125.5
160	43.7	36.2	54.4

Manual Integrations

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#42

2,4,6-Tribromophenol

Concen: 8.734 ng

RT: 10.698 min Scan# 1464

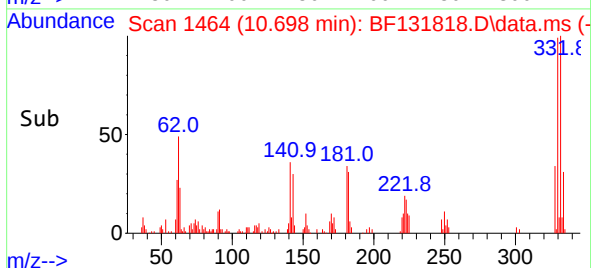
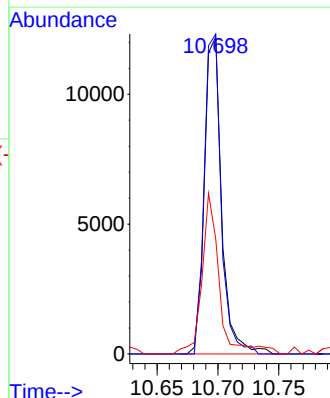
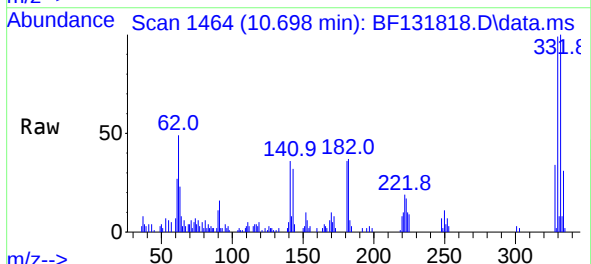
Delta R.T. -0.012 min

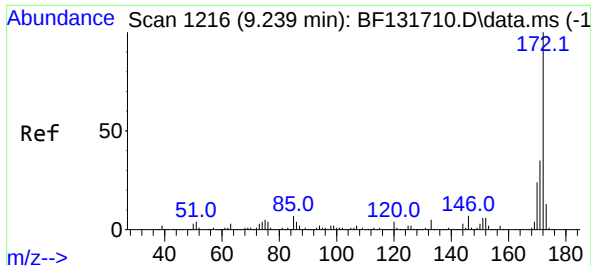
Lab File: BF131818.D

Acq: 23 Dec 2022 21:28

Tgt Ion:330 Resp: 12046

Ion	Ratio	Lower	Upper
330	100		
332	98.2	77.1	115.7
141	50.7	30.4	45.6





#45

2-Fluorobiphenyl

Concen: 11.789 ng

RT: 9.216 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF131818.D

Acq: 23 Dec 2022 21:28

Instrument :

BNA_F

ClientSampleId :

B-27-5B01DL

Tgt Ion:172 Resp: 106049

Ion Ratio Lower Upper

172 100

171 34.4 27.9 41.9

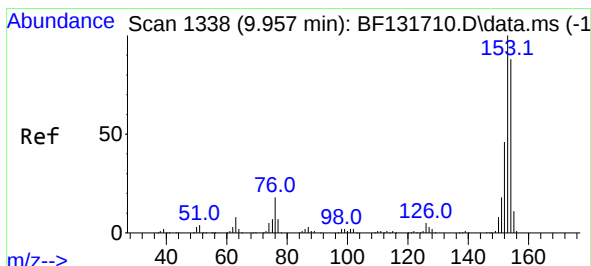
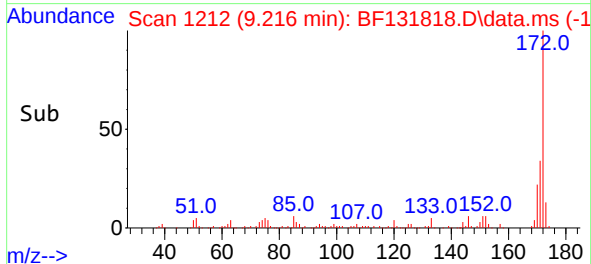
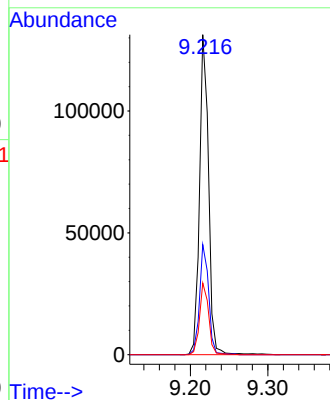
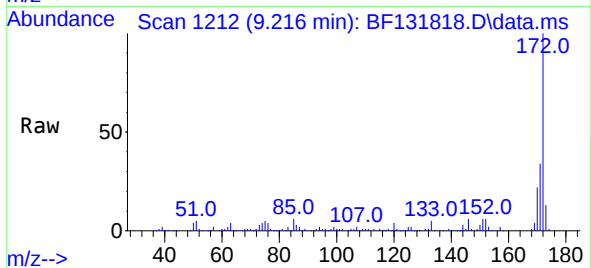
170 22.4 19.0 28.4

Manual Integrations

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Supervised By :Jagrut Upadhyay 12/24/2022



#52

Acenaphthene

Concen: 3.490 ng

RT: 9.934 min Scan# 1334

Delta R.T. -0.017 min

Lab File: BF131818.D

Acq: 23 Dec 2022 21:28

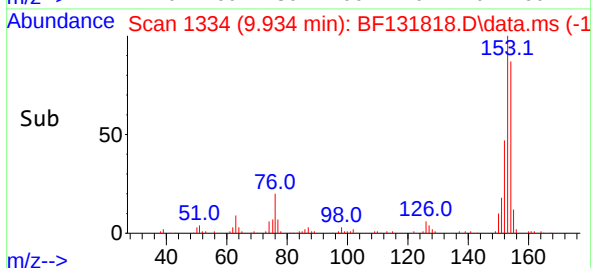
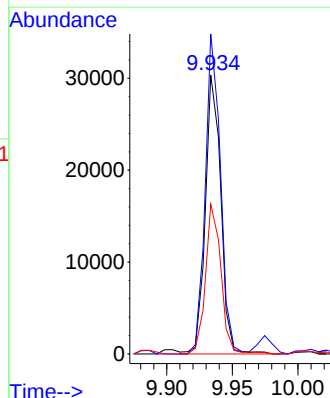
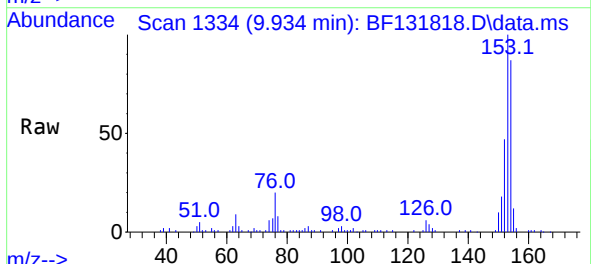
Tgt Ion:154 Resp: 24891

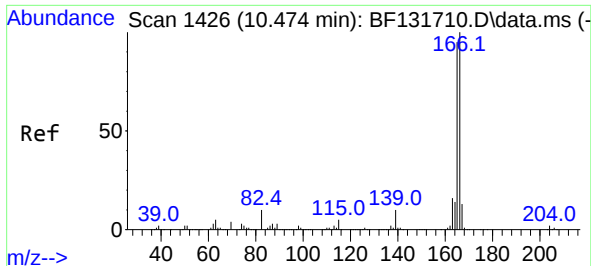
Ion Ratio Lower Upper

154 100

153 114.7 90.4 135.6

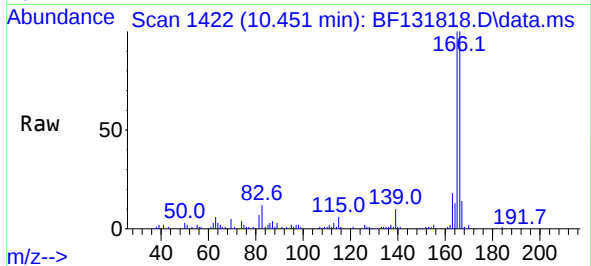
152 53.7 42.0 63.0





#58
Fluorene
Concen: 3.256 ng
RT: 10.451 min Scan# 1422
Delta R.T. -0.017 min
Lab File: BF131818.D
Acq: 23 Dec 2022 21:28

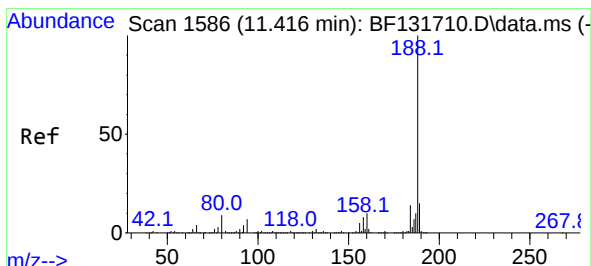
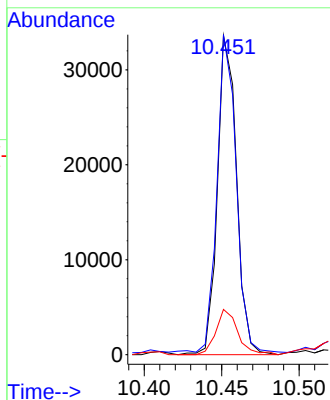
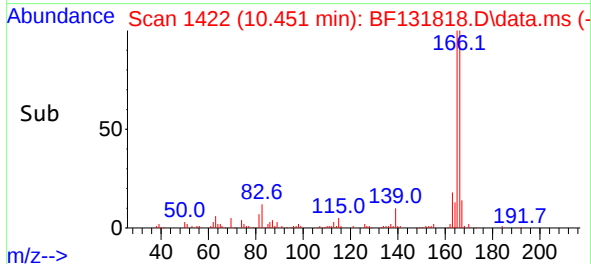
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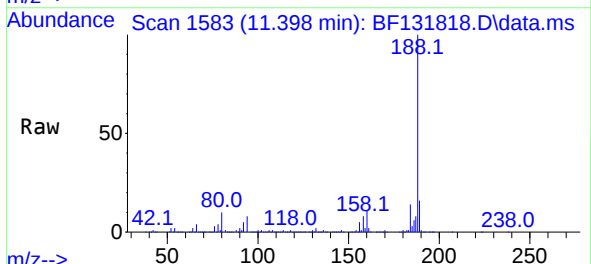
Tgt Ion:166 Resp: 28789
Ion Ratio Lower Upper
166 100
165 100.3 75.8 113.8
167 14.2 10.6 15.8

Manual Integrations
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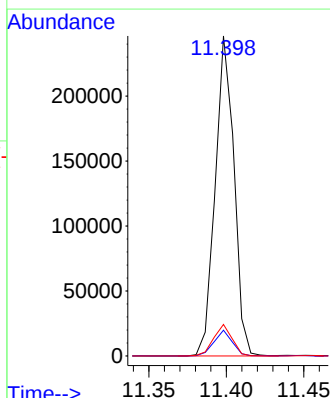
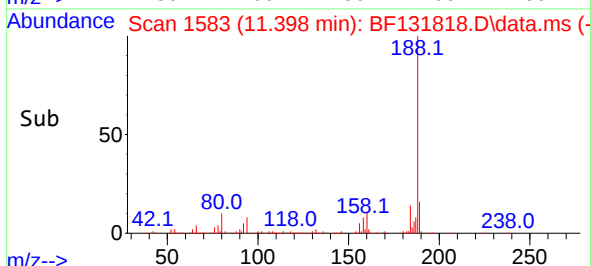
Reviewed By :Christian Giraldo 12/24/2022
Supervised By :Jagrut Upadhyay 12/24/2022

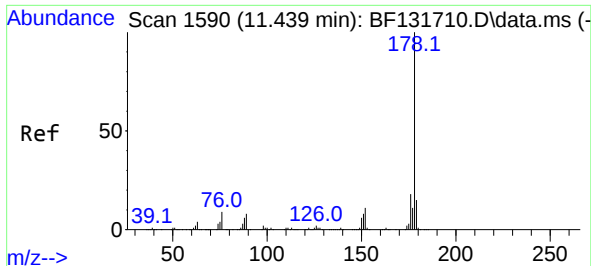


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1583
Delta R.T. -0.012 min
Lab File: BF131818.D
Acq: 23 Dec 2022 21:28



Tgt Ion:188 Resp: 207637
Ion Ratio Lower Upper
188 100
94 8.0 5.9 8.9
80 9.8 7.0 10.6





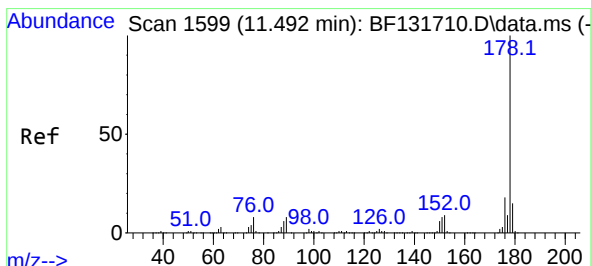
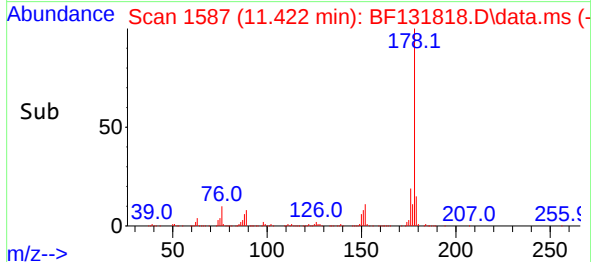
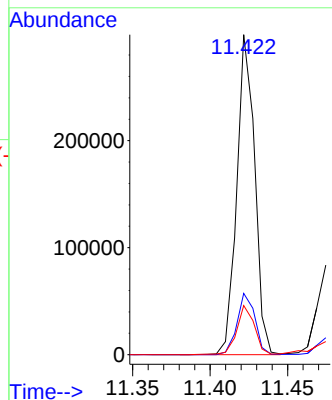
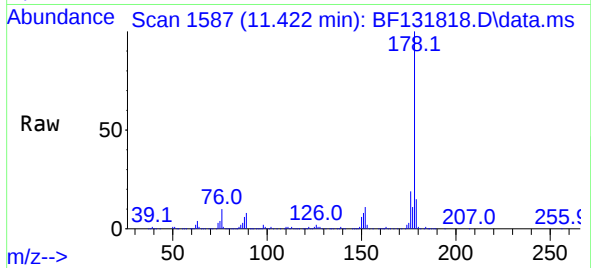
#71
Phenanthrene
Concen: 21.242 ng
RT: 11.422 min Scan# 1587
Delta R.T. -0.012 min
Lab File: BF131818.D
Acq: 23 Dec 2022 21:28

Instrument :
BNA_F
ClientSampleId :
B-27-5B01DL

Tgt Ion:178 Resp: 240504
Ion Ratio Lower Upper
178 100
176 19.1 14.8 22.2
179 15.3 12.2 18.4

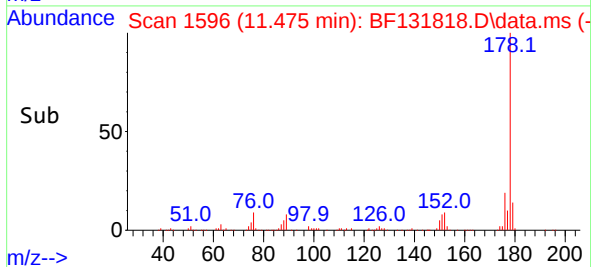
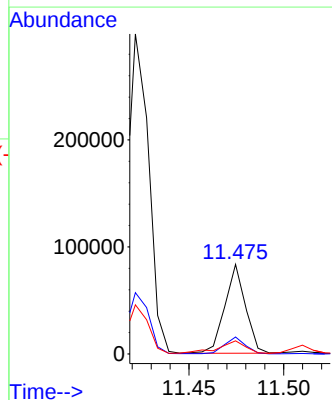
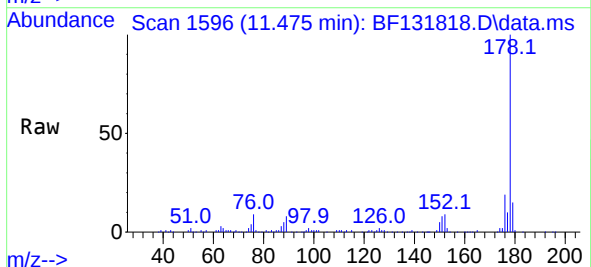
Manual Integrations
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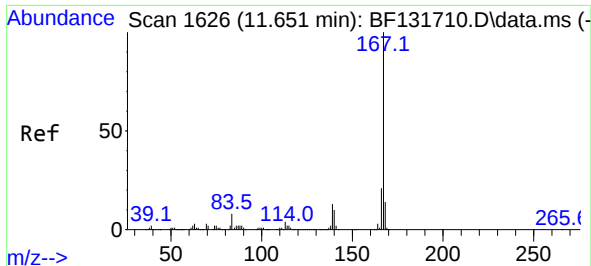
Reviewed By :Christian Giraldo 12/24/2022
Supervised By :Jagrut Upadhyay 12/24/2022



#72
Anthracene
Concen: 5.706 ng
RT: 11.475 min Scan# 1596
Delta R.T. -0.012 min
Lab File: BF131818.D
Acq: 23 Dec 2022 21:28

Tgt Ion:178 Resp: 63255
Ion Ratio Lower Upper
178 100
176 19.0 14.6 21.8
179 14.6 12.2 18.4





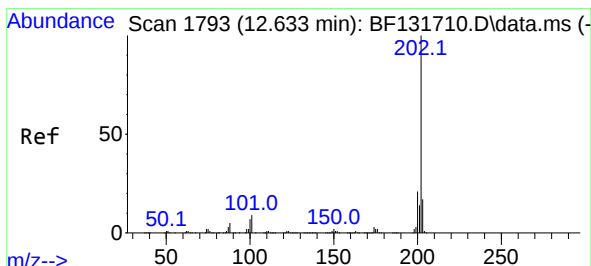
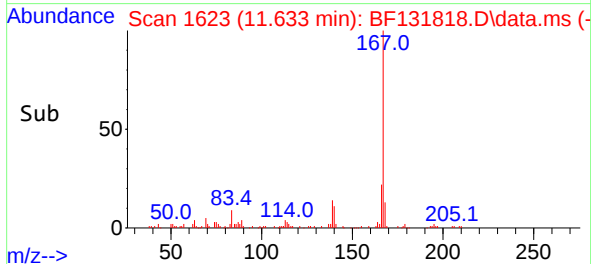
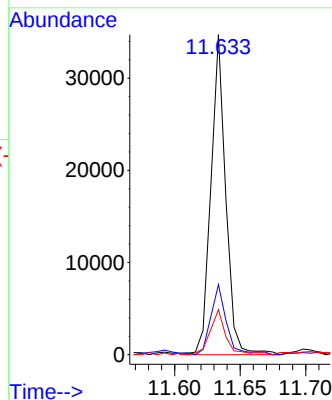
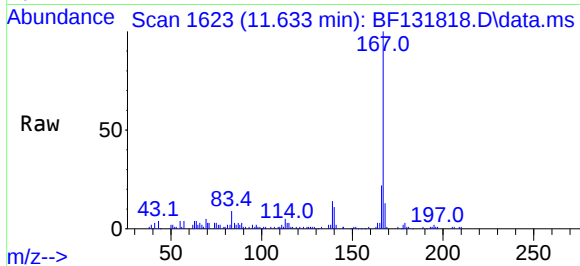
#73
 Carbazole
 Concen: 2.858 ng
 RT: 11.633 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF131818.D
 Acq: 23 Dec 2022 21:28

Instrument :
 BNA_F
 ClientSampleId :
 B-27-5B01DL

Tgt Ion:167 Resp: 2740
 Ion Ratio Lower Upper
 167 100
 166 21.9 17.1 25.7
 139 14.1 10.5 15.7

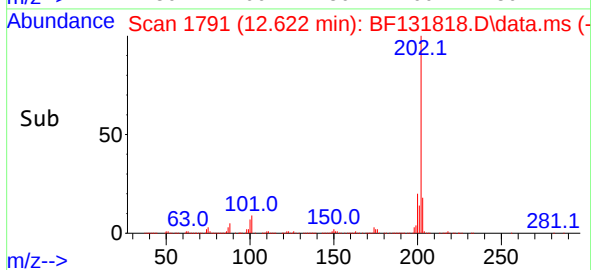
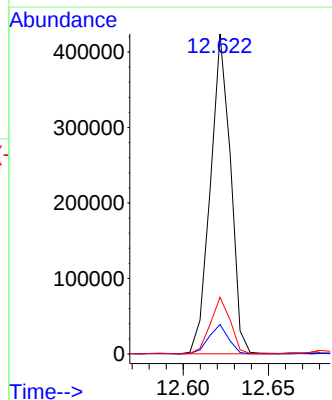
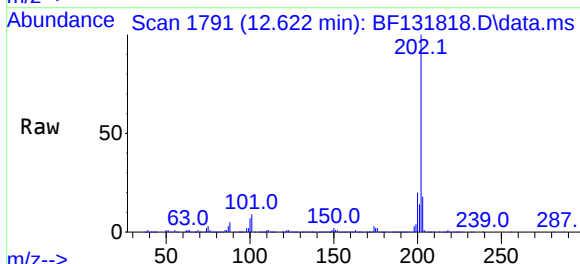
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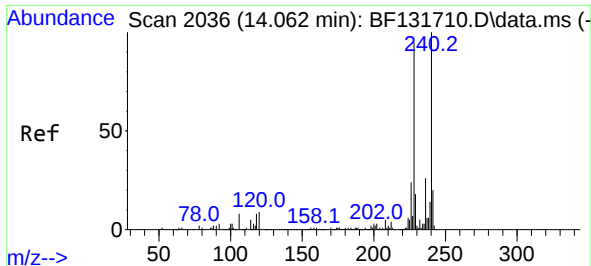
Reviewed By :Christian Giraldo 12/24/2022
 Supervised By :Jagrut Upadhyay 12/24/2022



#75
 Fluoranthene
 Concen: 27.582 ng
 RT: 12.622 min Scan# 1791
 Delta R.T. -0.012 min
 Lab File: BF131818.D
 Acq: 23 Dec 2022 21:28

Tgt Ion:202 Resp: 347796
 Ion Ratio Lower Upper
 202 100
 101 9.2 0.0 28.8
 203 17.7 0.0 37.1





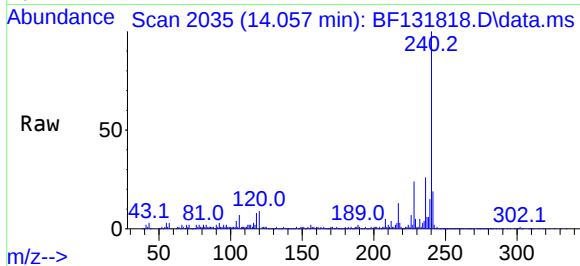
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2035
Delta R.T. -0.012 min
Lab File: BF131818.D
Acq: 23 Dec 2022 21:28

Instrument :

BNA_F

ClientSampleId :

B-27-5B01DL

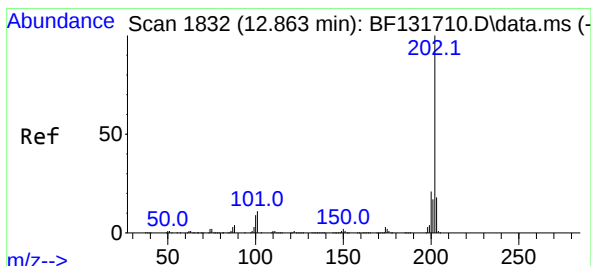
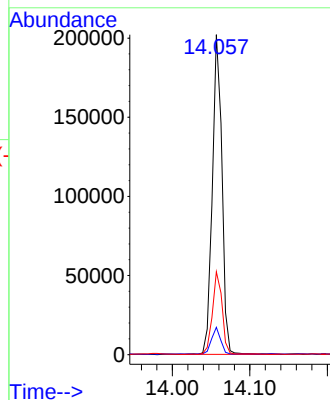
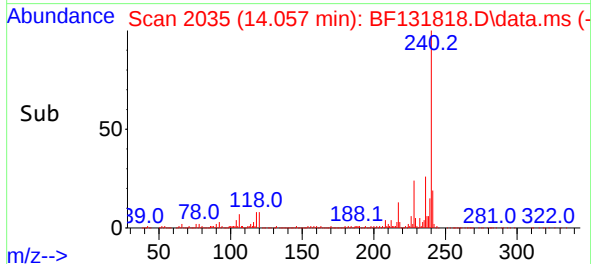


Tgt Ion:240 Resp: 173945
Ion Ratio Lower Upper
240 100
120 8.6 7.6 11.4
236 25.9 21.2 31.8

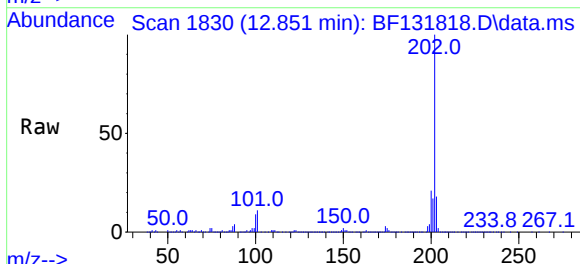
Manual Integrations

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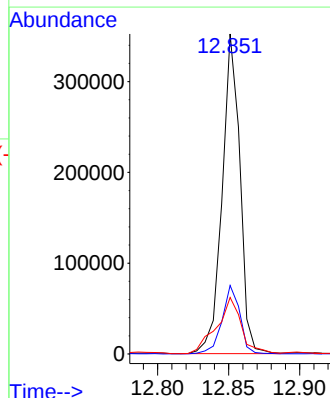
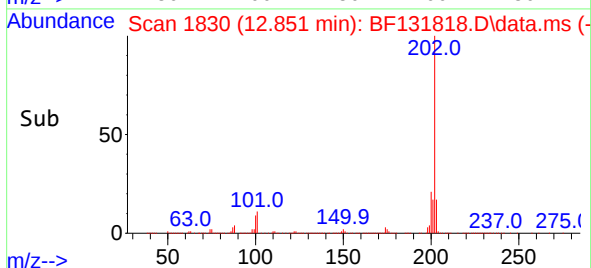
Reviewed By :Christian Giraldo 12/24/2022
Supervised By :Jagrut Upadhyay 12/24/2022

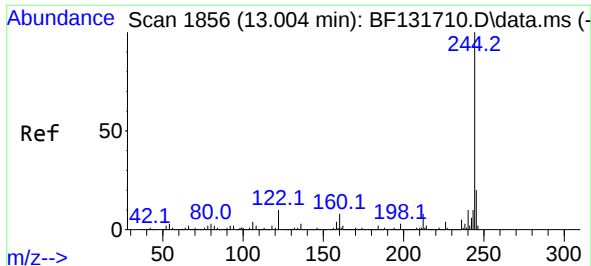


#78
Pyrene
Concen: 19.376 ng
RT: 12.851 min Scan# 1830
Delta R.T. -0.012 min
Lab File: BF131818.D
Acq: 23 Dec 2022 21:28



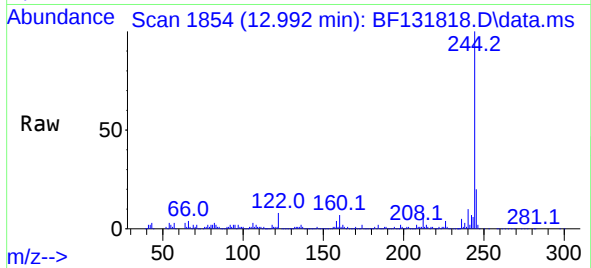
Tgt Ion:202 Resp: 306424
Ion Ratio Lower Upper
202 100
200 21.4 17.1 25.7
203 17.6 14.1 21.1





#79
 Terphenyl-d14
 Concen: 8.434 ng
 RT: 12.992 min Scan# 1854
 Delta R.T. -0.012 min
 Lab File: BF131818.D
 Acq: 23 Dec 2022 21:28

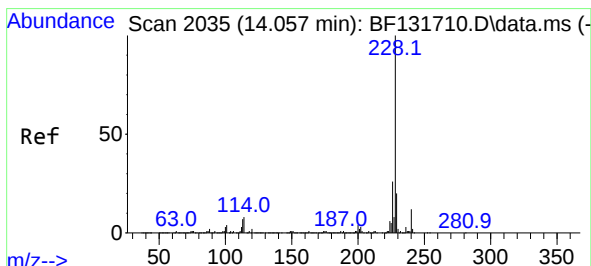
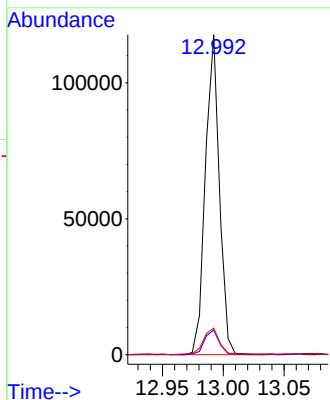
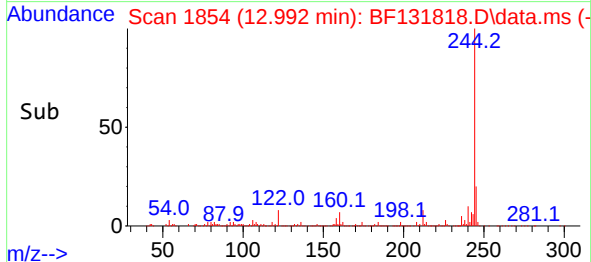
Instrument :
 BNA_F
 ClientSampleId :
 B-27-5B01DL



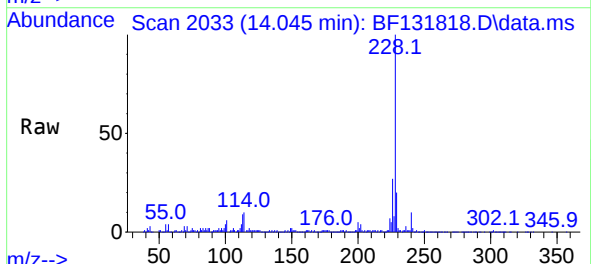
Tgt Ion:244 Resp: 94120
 Ion Ratio Lower Upper
 244 100
 212 7.7 6.5 9.7
 122 8.3 7.7 11.5

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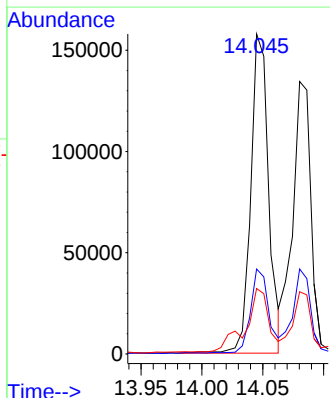
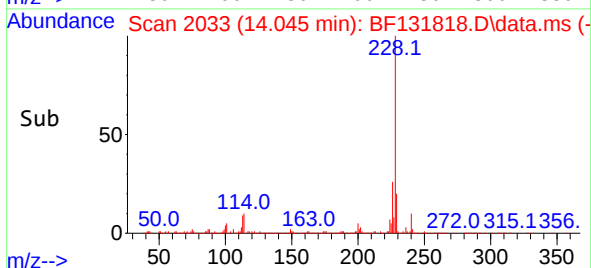
Reviewed By :Christian Giraldo 12/24/2022
 Supervised By :Jagrut Upadhyay 12/24/2022

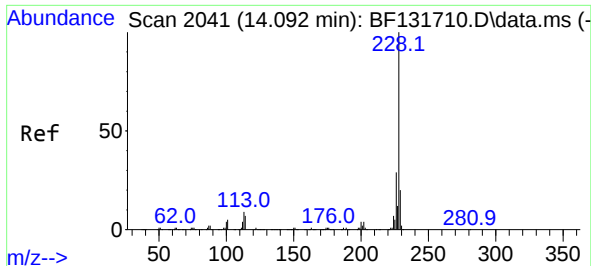


#81
 Benzo(a)anthracene
 Concen: 12.834 ng
 RT: 14.045 min Scan# 2033
 Delta R.T. -0.012 min
 Lab File: BF131818.D
 Acq: 23 Dec 2022 21:28



Tgt Ion:228 Resp: 160775
 Ion Ratio Lower Upper
 228 100
 226 26.5 21.0 31.4
 229 20.4 15.8 23.8





#83
Chrysene
Concen: 11.934 ng
RT: 14.080 min Scan# 2041
Delta R.T. -0.017 min
Lab File: BF131818.D
Acq: 23 Dec 2022 21:28

Instrument :

BNA_F

ClientSampleId :

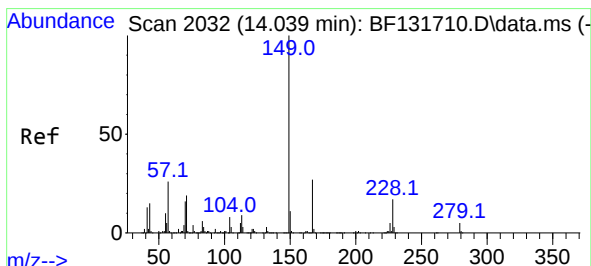
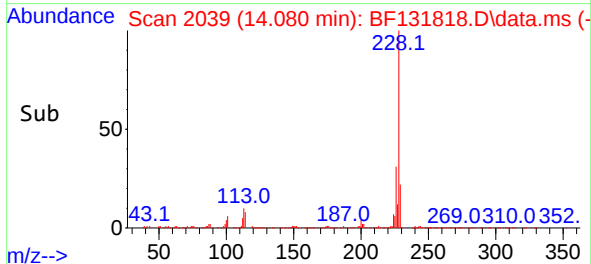
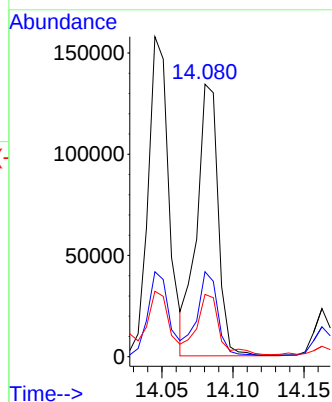
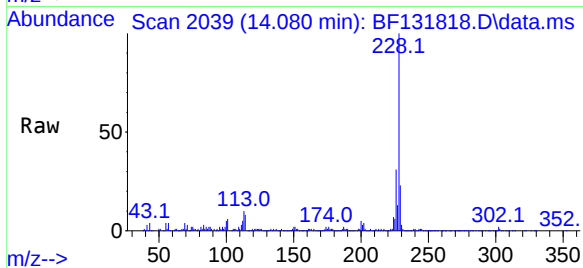
B-27-5B01DL

Tgt Ion:228 Resp: 141114
Ion Ratio Lower Upper
228 100
226 31.2 23.5 35.3
229 22.9 15.6 23.4

Manual Integrations

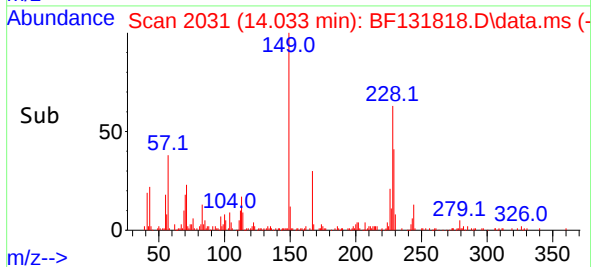
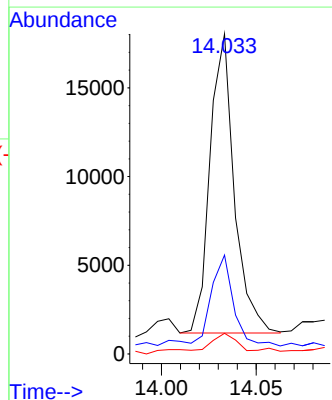
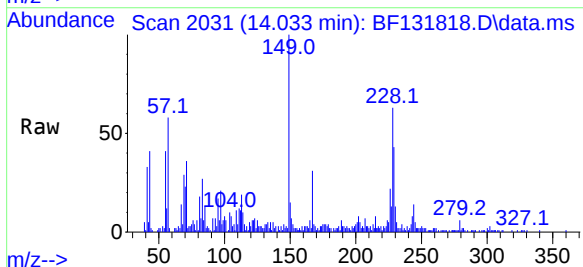
APPROVED

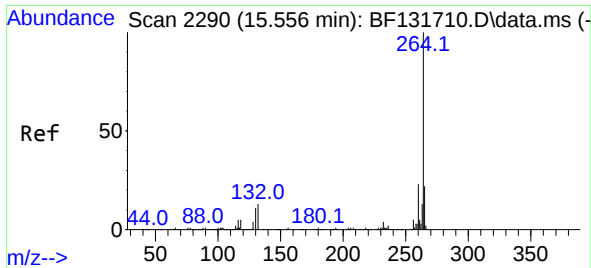
Reviewed By :Christian Giraldo 12/24/2022
Supervised By :Jagrut Upadhyay 12/24/2022



#84
Bis(2-ethylhexyl)phthalate
Concen: 2.265 ng
RT: 14.033 min Scan# 2031
Delta R.T. -0.006 min
Lab File: BF131818.D
Acq: 23 Dec 2022 21:28

Tgt Ion:149 Resp: 15066
Ion Ratio Lower Upper
149 100
167 30.9 21.7 32.5
279 6.4 3.8 5.6





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF131818.D
Acq: 23 Dec 2022 21:28

Instrument :

BNA_F

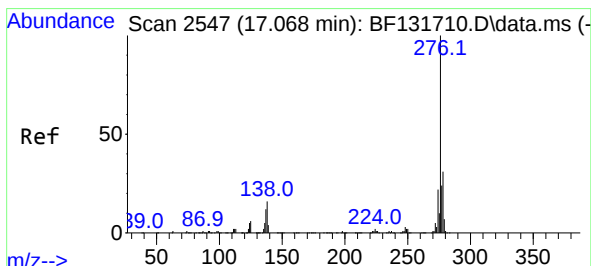
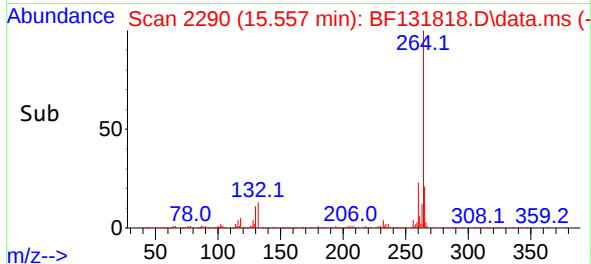
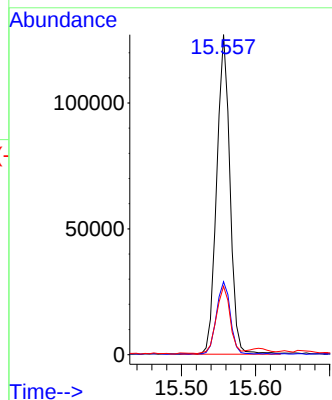
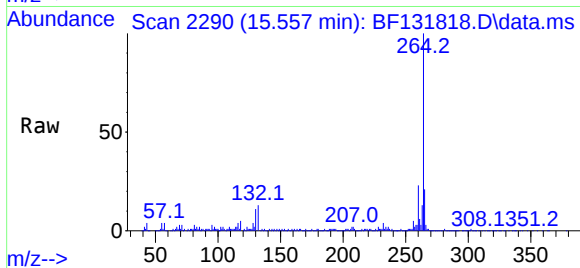
ClientSampleId :

B-27-5B01DL

Tgt Ion:264 Resp: 157359
Ion Ratio Lower Upper
264 100
260 22.8 18.6 28.0
265 21.3 17.4 26.2

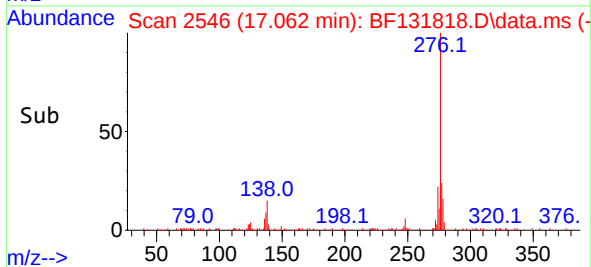
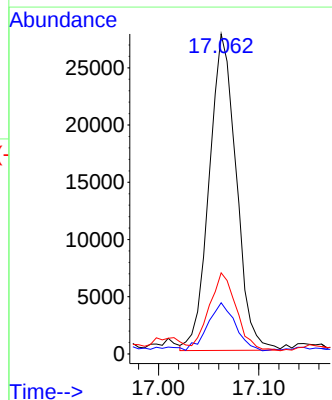
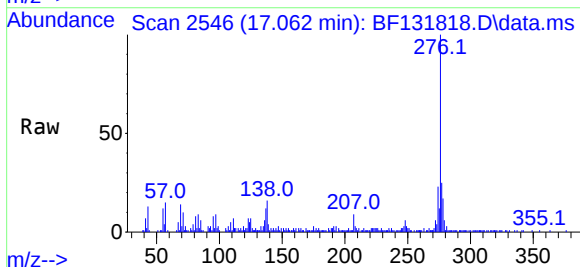
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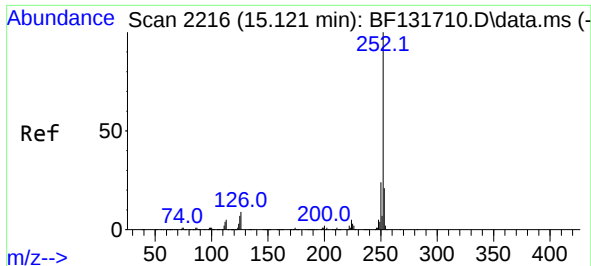
Reviewed By :Christian Giraldo 12/24/2022
Supervised By :Jagrut Upadhyay 12/24/2022



#87
Indeno(1,2,3-cd)pyrene
Concen: 4.907 ng
RT: 17.062 min Scan# 2546
Delta R.T. -0.023 min
Lab File: BF131818.D
Acq: 23 Dec 2022 21:28

Tgt Ion:276 Resp: 51866
Ion Ratio Lower Upper
276 100
138 15.8 14.4 21.6
277 24.7 19.8 29.8





#88

Benzo(b)fluoranthene

Concen: 13.929 ng m

RT: 15.116 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF131818.D

Acq: 23 Dec 2022 21:28

Instrument :

BNA_F

ClientSampleId :

B-27-5B01DL

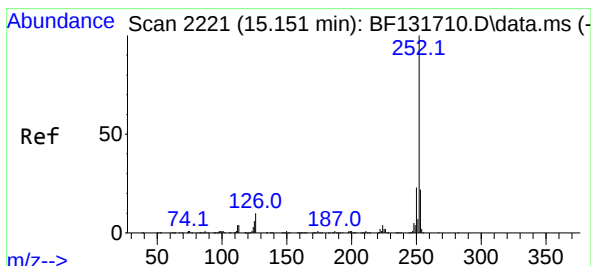
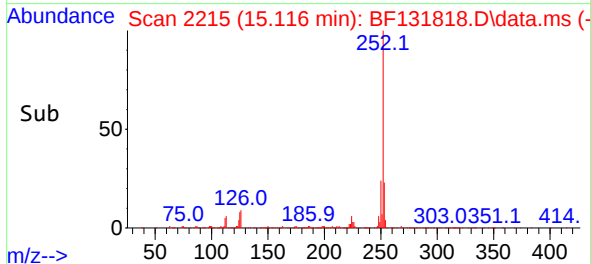
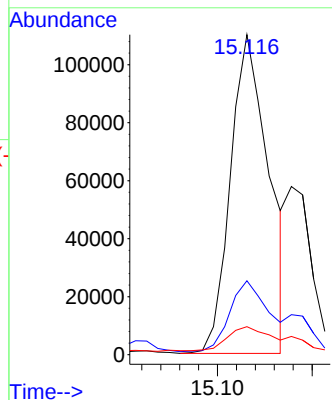
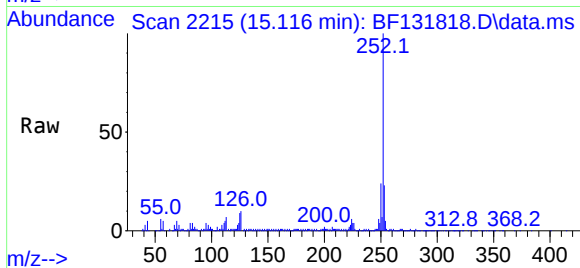
Tgt Ion:252 Resp: 15507

Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.2	25.8
125	8.8	5.5	8.3

Manual Integrations

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Reviewed By :Christian Giraldo 12/24/2022
Supervised By :Jagrut Upadhyay 12/24/2022



#89

Benzo(k)fluoranthene

Concen: 4.762 ng m

RT: 15.139 min Scan# 2219

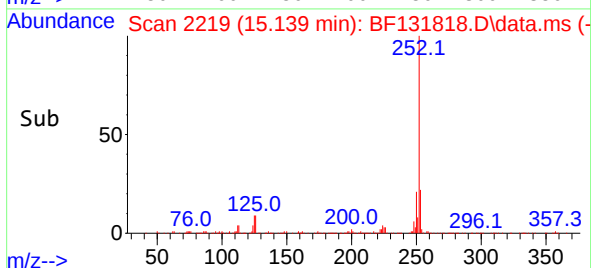
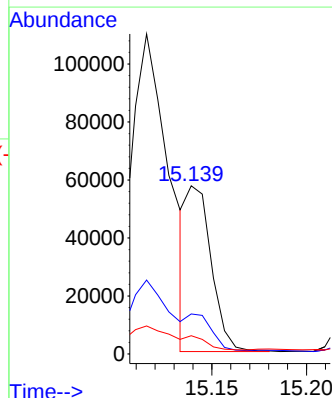
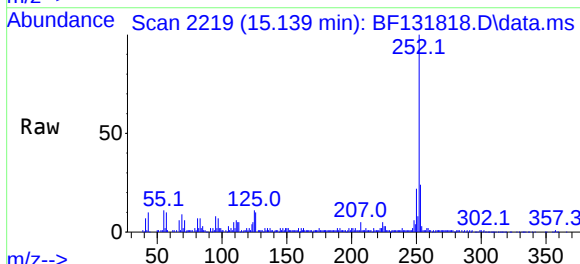
Delta R.T. -0.017 min

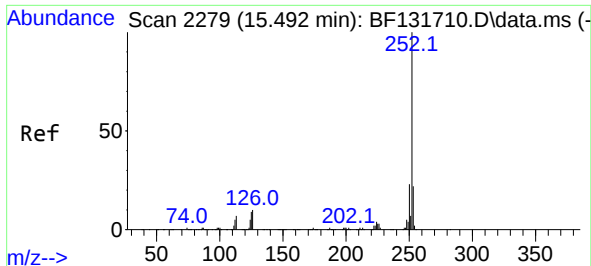
Lab File: BF131818.D

Acq: 23 Dec 2022 21:28

Tgt Ion:252 Resp: 51730

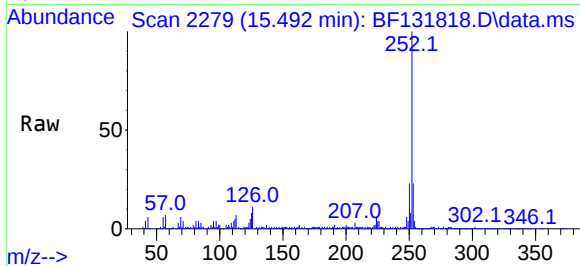
Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.8	26.8
125	10.9	5.2	7.8





#90
Benzo(a)pyrene
Concen: 12.259 ng
RT: 15.492 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF131818.D
Acq: 23 Dec 2022 21:28

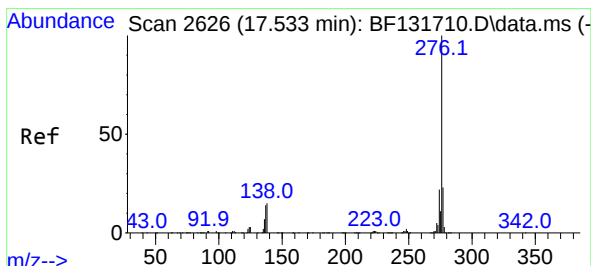
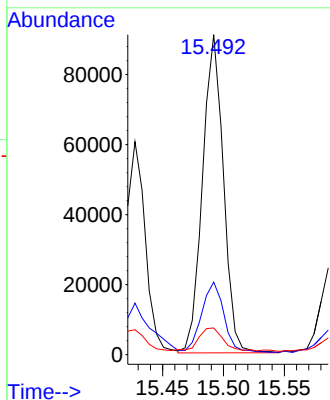
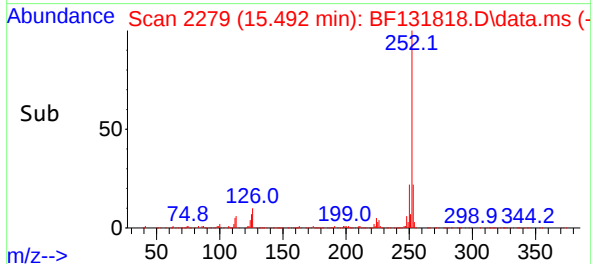
Instrument :
BNA_F
ClientSampleId :
B-27-5B01DL



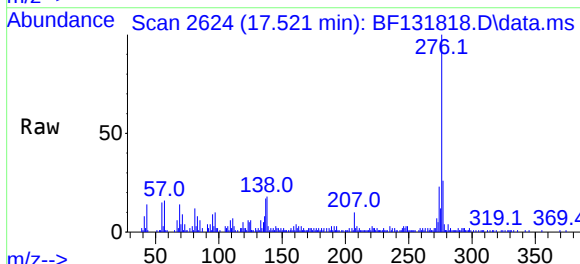
Tgt Ion:252 Resp: 108108
Ion Ratio Lower Upper
252 100
253 22.7 17.5 26.3
125 8.4 7.0 10.4

Manual Integrations
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Reviewed By :Christian Giraldo 12/24/2022
Supervised By :Jagrut Upadhyay 12/24/2022



#92
Benzo(g,h,i)perylene
Concen: 5.564 ng
RT: 17.521 min Scan# 2624
Delta R.T. -0.029 min
Lab File: BF131818.D
Acq: 23 Dec 2022 21:28



Tgt Ion:276 Resp: 48034
Ion Ratio Lower Upper
276 100
277 25.6 18.3 27.5
138 17.8 12.3 18.5

