

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051822\
 Data File : BF128328.D
 Acq On : 18 May 2022 23:22
 Operator : CG\JU
 Sample : N2901-01
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-051722

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 05/19/2022
 Supervised By : Jagrut Upadhyay 05/19/2022

Quant Time: May 19 06:51:24 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050922.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 19 06:47:51 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	74930	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	256138	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	123860	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	194188	20.000	ng	0.00
76) Chrysene-d12	14.057	240	126524	20.000	ng	# 0.00
86) Perylene-d12	15.557	264	98520	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	380684	80.990	ng	0.00
7) Phenol-d6	6.504	99	472819	76.053	ng	0.00
23) Nitrobenzene-d5	7.434	82	318922	56.026	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	101730	71.614	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	444873	56.200	ng	0.00
79) Terphenyl-d14	12.992	244	474415	70.358	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.175	128	48245	3.814	ng	99
37) 2-Methylnaphthalene	8.869	142	19394	2.274	ng	96
49) Acenaphthylene	9.775	152	32319	3.197	ng	98
52) Acenaphthene	9.945	154	42650	6.085	ng	99
55) Dibenzofuran	10.116	168	50357	5.060	ng	99
58) Fluorene	10.457	166	80157m	10.341	ng	
71) Phenanthrene	11.433	178	598581	61.905	ng	99
72) Anthracene	11.480	178	219153	22.701	ng	99
73) Carbazole	11.639	167	44088	4.803	ng	95
75) Fluoranthene	12.633	202	1478053	140.994	ng	99
78) Pyrene	12.863	202	1285614	140.135	ng	99
81) Benzo(a)anthracene	14.051	228	595982	73.747	ng	97
83) Chrysene	14.086	228	502706m	65.194	ng	
87) Indeno(1,2,3-cd)pyrene	17.080	276	247877	41.593	ng	# 93
88) Benzo(b)fluoranthene	15.116	252	546851m	89.542	ng	
89) Benzo(k)fluoranthene	15.145	252	198755m	32.969	ng	
90) Benzo(a)pyrene	15.498	252	404452	82.031	ng	96
91) Dibenzo(a,h)anthracene	17.086	278	60108	12.458	ng	# 83
92) Benzo(g,h,i)perylene	17.545	276	235635	48.234	ng	97

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

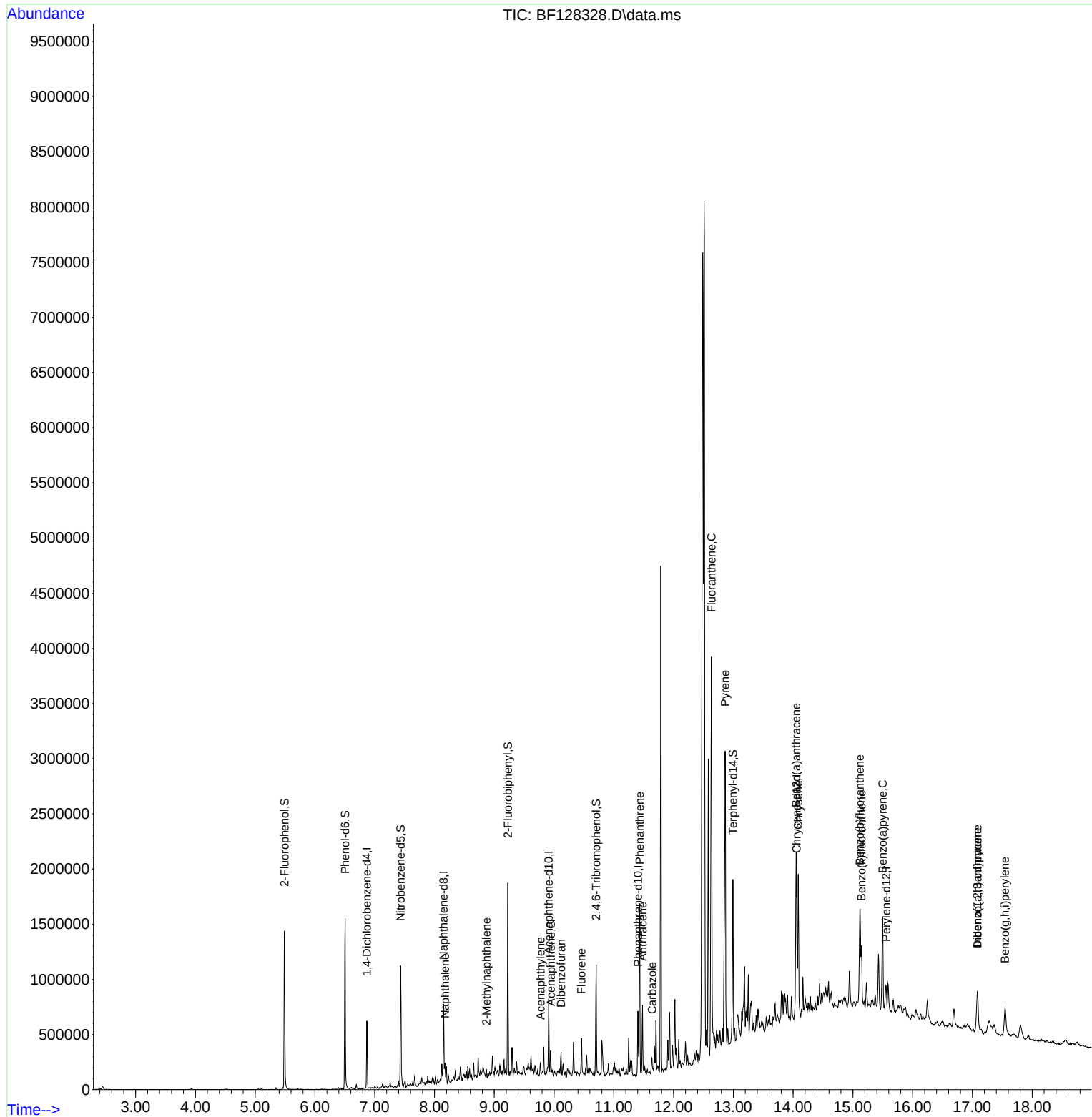
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051822\
Data File : BF128328.D
Acq On : 18 May 2022 23:22
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ALS Vial : 23 Sample Multiplier: 1

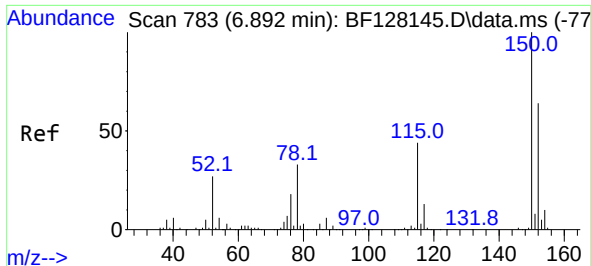
Instrument :
BNA_F
ClientSampleId :
EO-02-051722

Quant Time: May 19 06:51:24 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050922.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu May 19 06:47:51 2022
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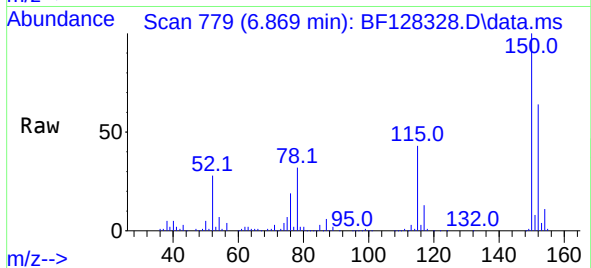
Reviewed By :Christian Giraldo 05/19/2022
Supervised By :Jagrut Upadhyay 05/19/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22

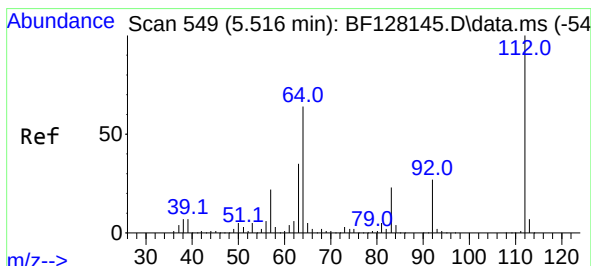
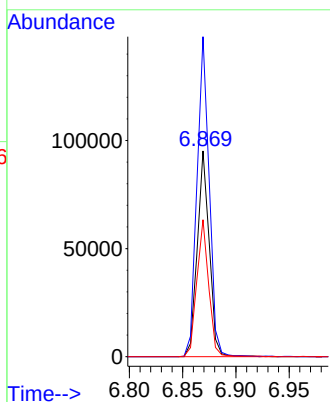
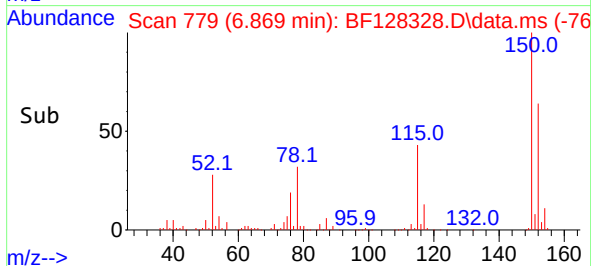
Instrument :
BNA_F
ClientSampleId :
EO-02-051722



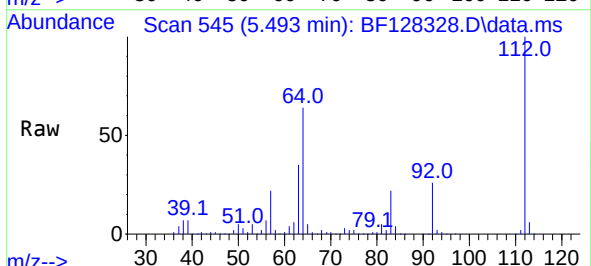
Tgt Ion:152 Resp: 74930
Ion Ratio Lower Upper
152 100
150 155.6 125.3 187.9
115 66.6 48.8 73.2

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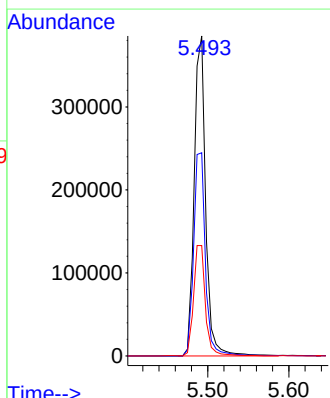
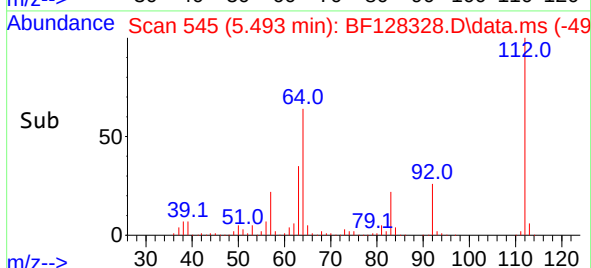
Reviewed By :Christian Giraldo 05/19/2022
Supervised By :Jagrut Upadhyay 05/19/2022

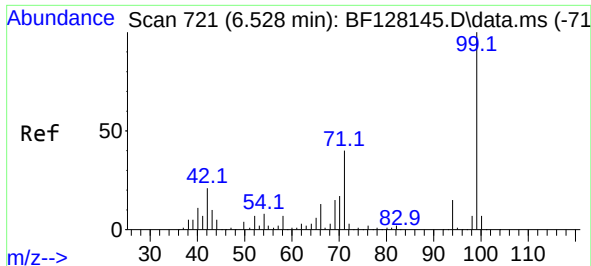


#5
2-Fluorophenol
Concen: 80.990 ng
RT: 5.493 min Scan# 545
Delta R.T. 0.000 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22



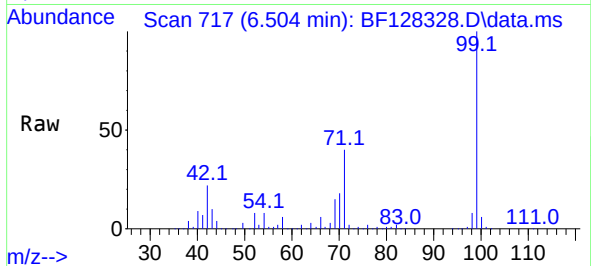
Tgt Ion:112 Resp: 380684
Ion Ratio Lower Upper
112 100
64 63.5 49.5 74.3
63 34.5 26.3 39.5





#7
Phenol-d6
Concen: 76.053 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22

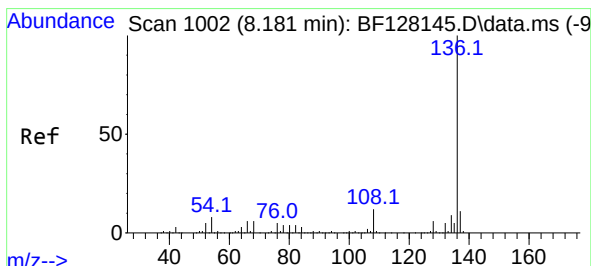
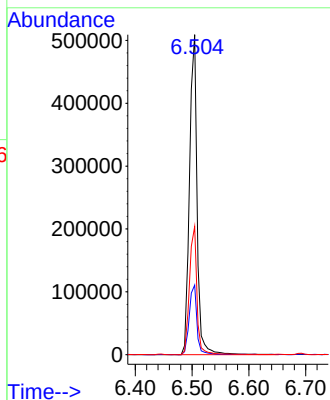
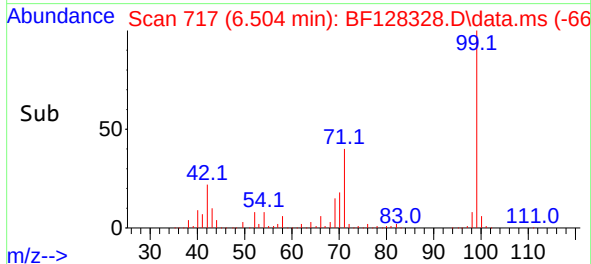
Instrument :
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ClientSampleId :
EO-02-051722



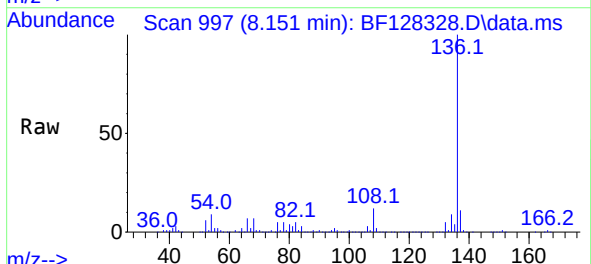
Tgt Ion: 99 Resp: 472819
Ion Ratio Lower Upper
99 100
42 21.7 16.6 24.8
71 40.1 30.0 45.0

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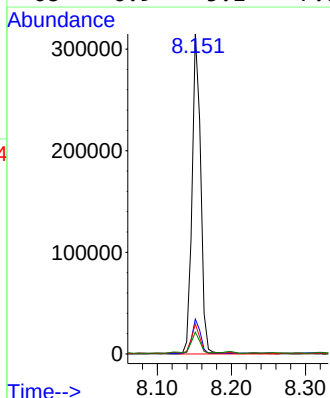
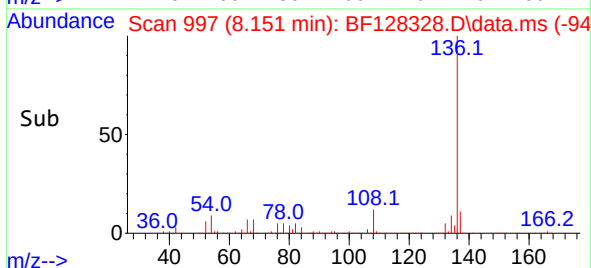
Reviewed By :Christian Giraldo 05/19/2022
Supervised By :Jagrut Upadhyay 05/19/2022

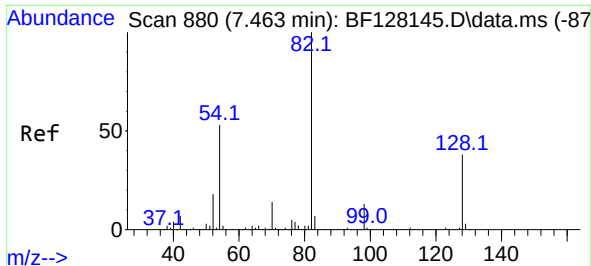


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 997
Delta R.T. -0.006 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22



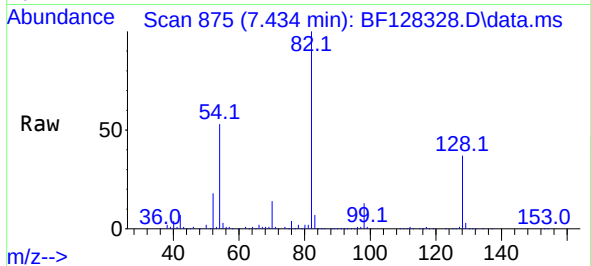
Tgt Ion:136 Resp: 256138
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 9.4 6.8 10.2
68 6.9 5.1 7.7





#23
Nitrobenzene-d5
Concen: 56.026 ng
RT: 7.434 min Scan# 81
Delta R.T. -0.012 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22

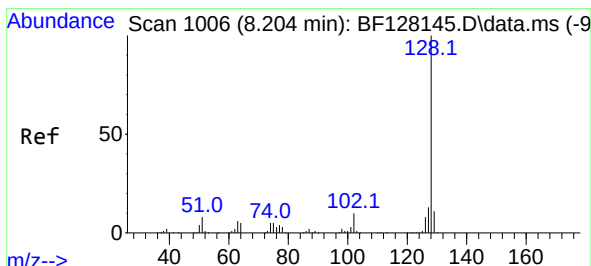
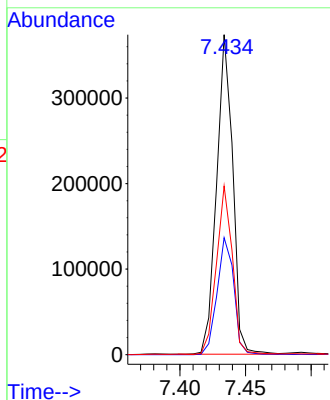
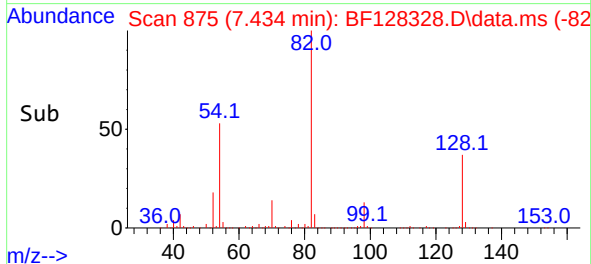
Instrument :
BNA_F
ClientSampleId :
EO-02-051722



Tgt Ion: 82 Resp: 31892
Ion Ratio Lower Upper
82 100
128 36.6 30.0 45.0
54 52.7 41.3 61.9

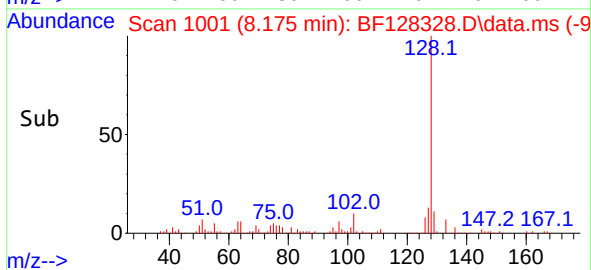
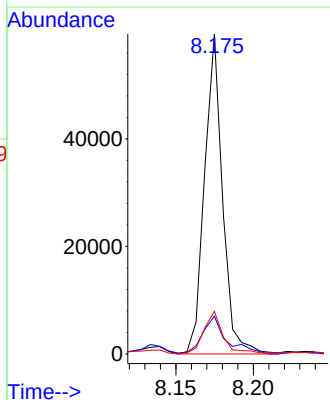
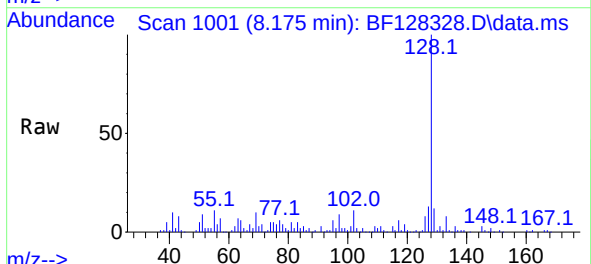
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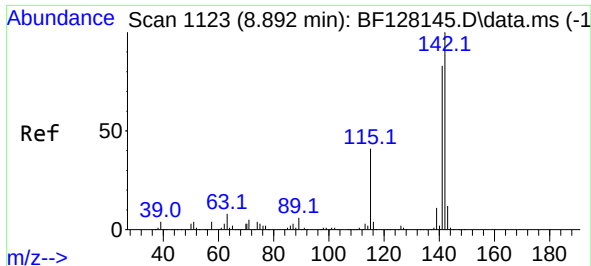
Reviewed By :Christian Giraldo 05/19/2022
Supervised By :Jagrut Upadhyay 05/19/2022



#31
Naphthalene
Concen: 3.814 ng
RT: 8.175 min Scan# 1001
Delta R.T. -0.006 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22

Tgt Ion:128 Resp: 48245
Ion Ratio Lower Upper
128 100
129 11.8 9.0 13.4
127 13.3 10.6 16.0





#37

2-Methylnaphthalene

Concen: 2.274 ng

RT: 8.869 min Scan# 1119

Delta R.T. 0.000 min

Lab File: BF128328.D

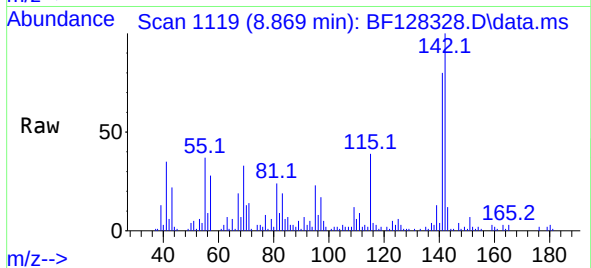
Acq: 18 May 2022 23:22

Instrument :

BNA_F

ClientSampleId :

EO-02-051722



Tgt Ion:142 Resp: 19394

Ion Ratio Lower Upper

142 100

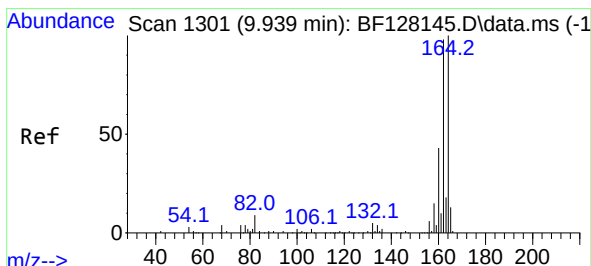
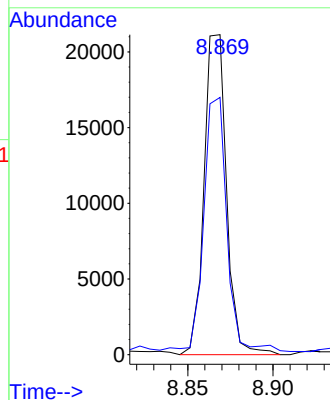
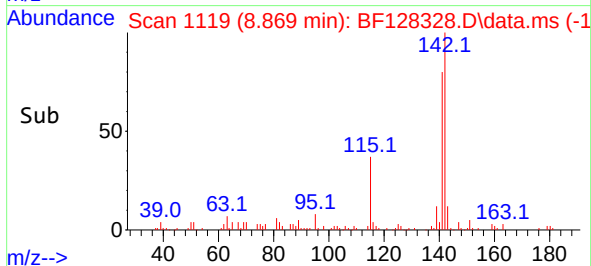
141 80.4 67.4 101.2

Manual Integrations

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Supervised By :Jagrut Upadhyay 05/19/2022



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.910 min Scan# 1296

Delta R.T. -0.006 min

Lab File: BF128328.D

Acq: 18 May 2022 23:22

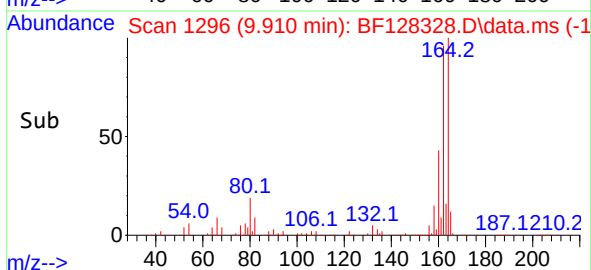
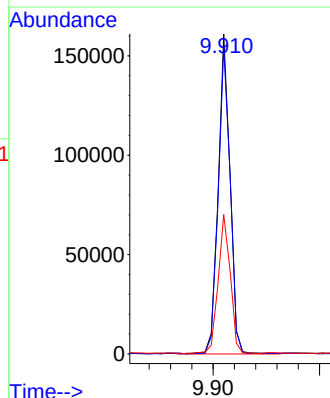
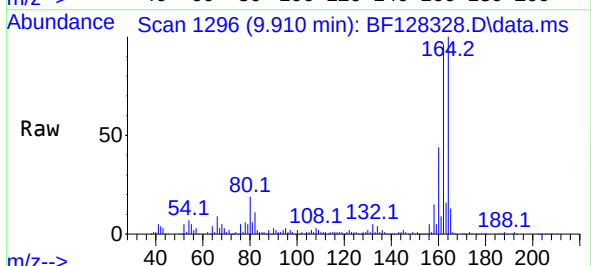
Tgt Ion:164 Resp: 123860

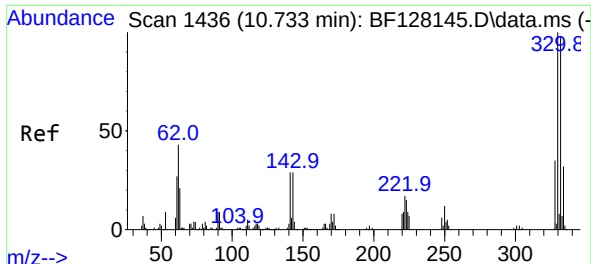
Ion Ratio Lower Upper

164 100

162 95.9 76.0 114.0

160 43.5 34.8 52.2





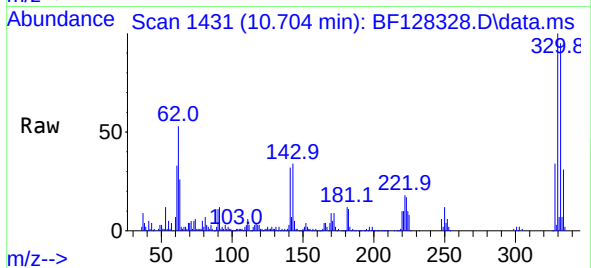
#42
2,4,6-Tribromophenol
Concen: 71.614 ng
RT: 10.704 min Scan# 1436
Delta R.T. -0.006 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22

Instrument :

BNA_F

ClientSampleId :

EO-02-051722



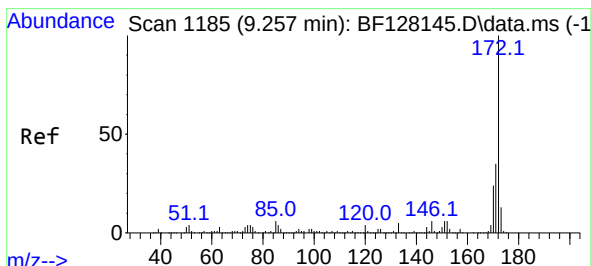
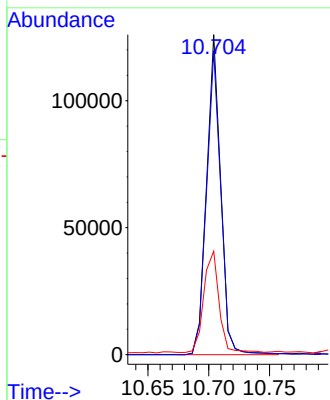
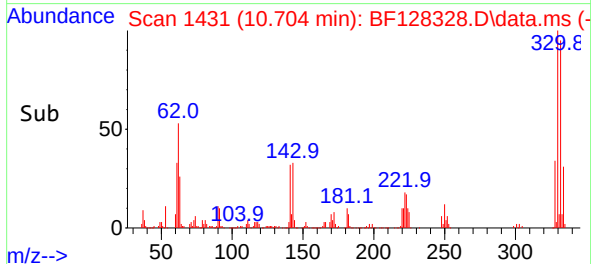
Tgt Ion:330 Resp: 101730
Ion Ratio Lower Upper
330 100
332 96.4 79.0 118.4
141 34.0 28.9 43.3

Manual Integrations

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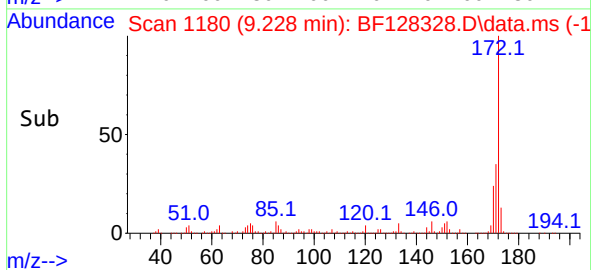
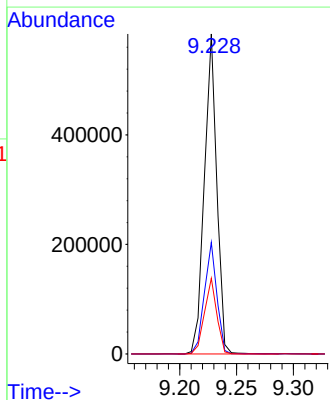
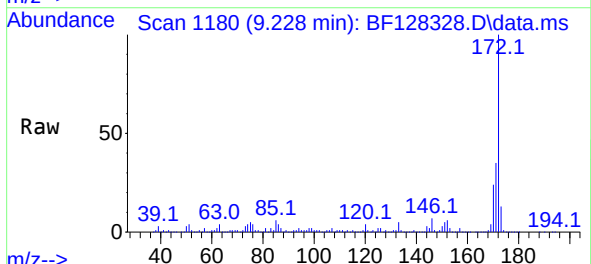
Reviewed By :Christian Giraldo 05/19/2022

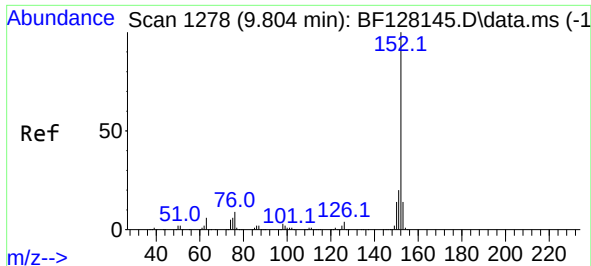
Supervised By :Jagrut Upadhyay 05/19/2022



#45
2-Fluorobiphenyl
Concen: 56.200 ng
RT: 9.228 min Scan# 1180
Delta R.T. -0.006 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22

Tgt Ion:172 Resp: 444873
Ion Ratio Lower Upper
172 100
171 34.9 28.6 42.8
170 23.7 19.1 28.7





#49

Acenaphthylene

Concen: 3.197 ng

RT: 9.775 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF128328.D

Acq: 18 May 2022 23:22

Instrument :

BNA_F

ClientSampleId :

EO-02-051722

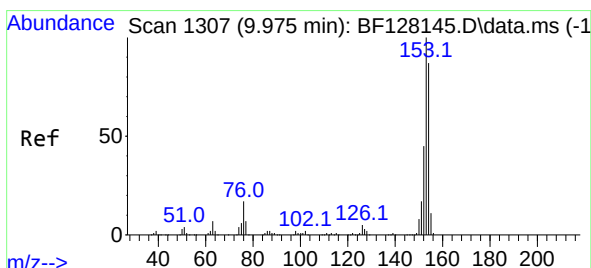
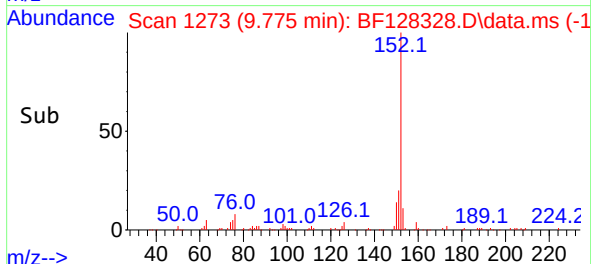
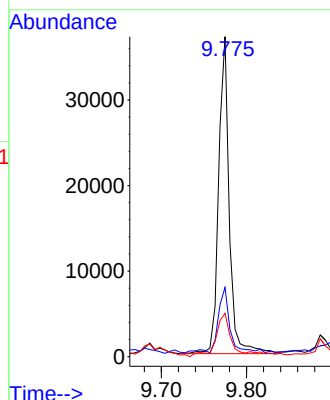
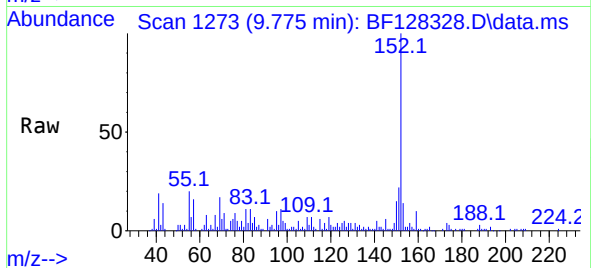
Tgt Ion:	152	Resp:	32319
Ion Ratio	Lower	Upper	
152	100		
151	21.7	16.2	24.2
153	13.5	11.2	16.8

Manual Integrations

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Supervised By :Jagrut Upadhyay 05/19/2022



#52

Acenaphthene

Concen: 6.085 ng

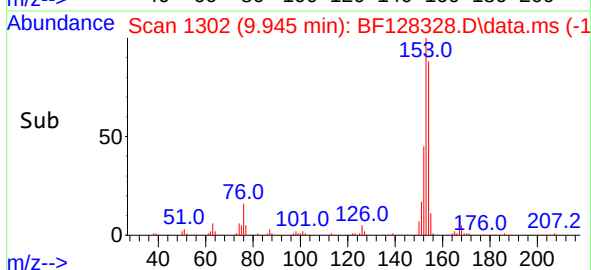
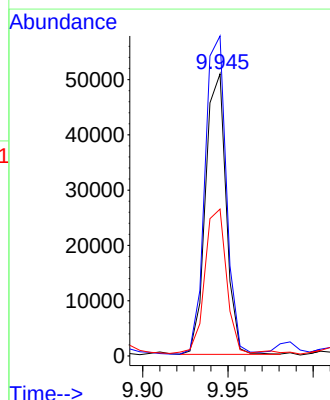
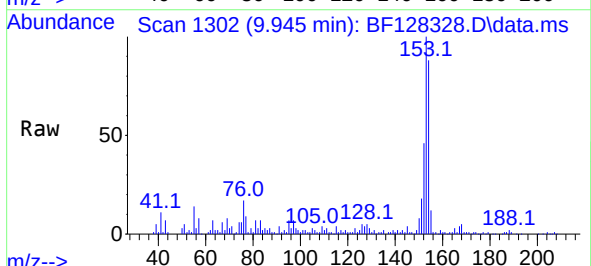
RT: 9.945 min Scan# 1302

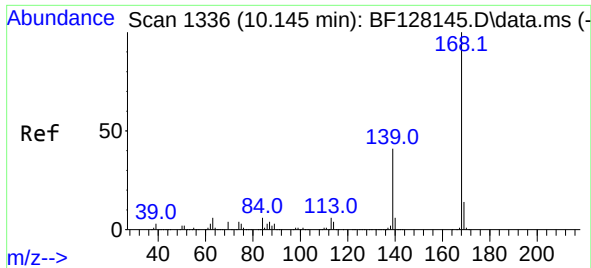
Delta R.T. -0.006 min

Lab File: BF128328.D

Acq: 18 May 2022 23:22

Tgt Ion:	154	Resp:	42650
Ion Ratio	Lower	Upper	
154	100		
153	113.4	90.5	135.7
152	52.1	41.0	61.6





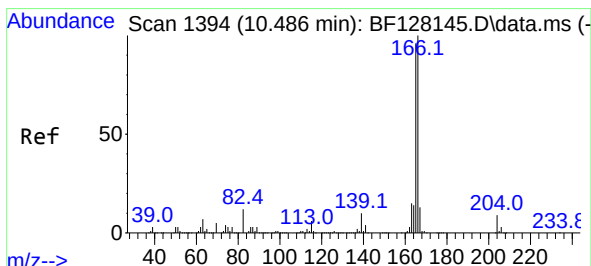
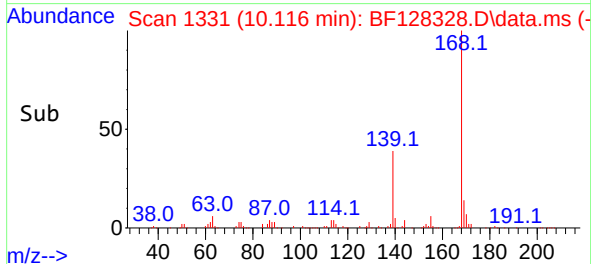
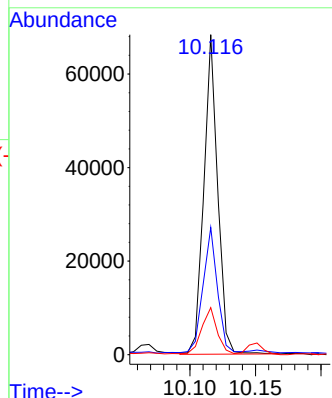
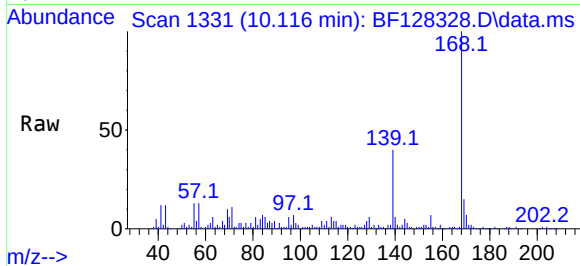
#55
Dibenzenofuran
Concen: 5.060 ng
RT: 10.116 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22

Instrument :
BNA_F
ClientSampleId :
EO-02-051722

Tgt Ion:168 Resp: 5035
Ion Ratio Lower Upper
168 100
139 39.7 31.7 47.5
169 14.7 10.9 16.3

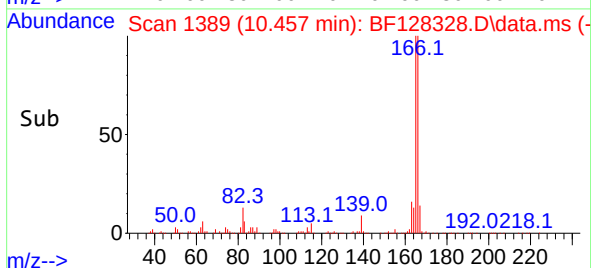
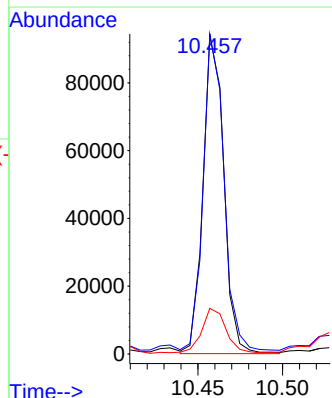
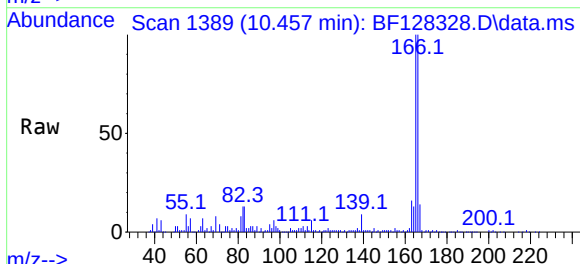
Manual Integrations
APPROVED

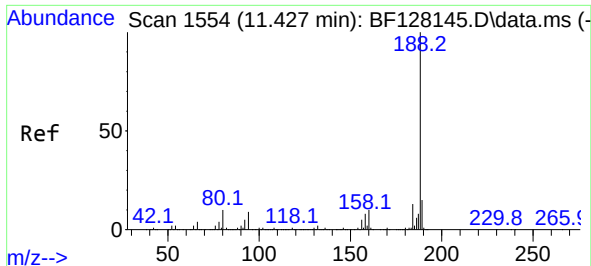
Reviewed By :Christian Giraldo 05/19/2022
Supervised By :Jagrut Upadhyay 05/19/2022



#58
Fluorene
Concen: 10.341 ng m
RT: 10.457 min Scan# 1389
Delta R.T. -0.011 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22

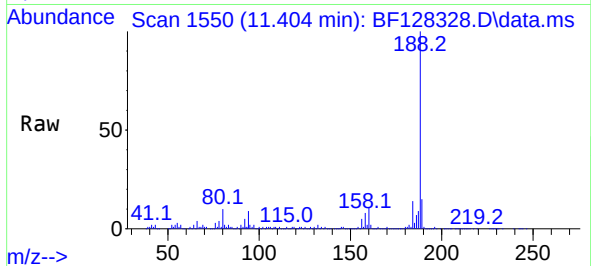
Tgt Ion:166 Resp: 80157
Ion Ratio Lower Upper
166 100
165 100.5 78.6 117.8
167 14.3 10.5 15.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22

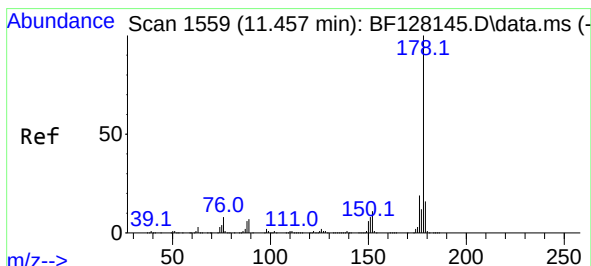
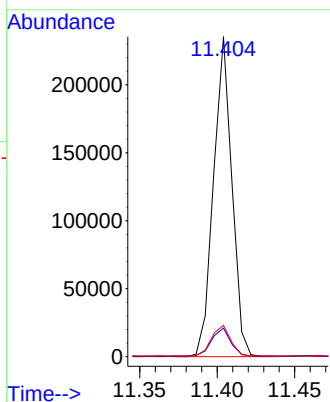
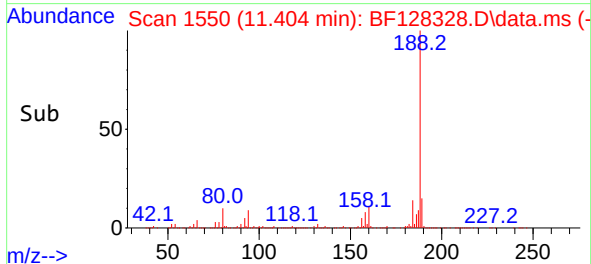
Instrument :
BNA_F
ClientSampleId :
EO-02-051722



Tgt Ion:188 Resp: 194188
Ion Ratio Lower Upper
188 100
94 9.0 8.0 12.0
80 9.8 8.9 13.3

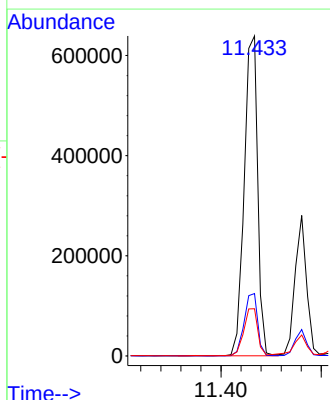
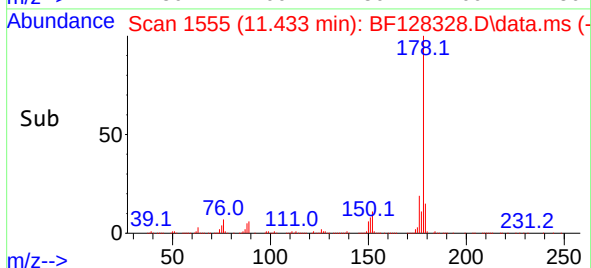
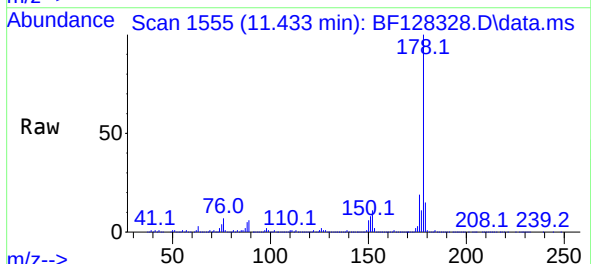
Manual Integrations
APPROVED

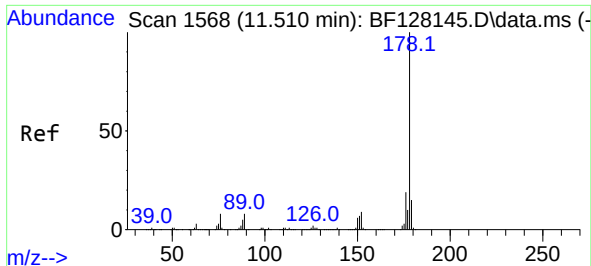
Reviewed By :Christian Giraldo 05/19/2022
Supervised By :Jagrut Upadhyay 05/19/2022



#71
Phenanthrene
Concen: 61.905 ng
RT: 11.433 min Scan# 1555
Delta R.T. 0.000 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22

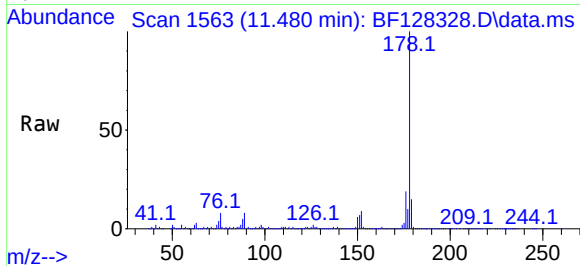
Tgt Ion:178 Resp: 598581
Ion Ratio Lower Upper
178 100
176 19.5 15.7 23.5
179 14.8 12.6 19.0





#72
 Anthracene
 Concen: 22.701 ng
 RT: 11.480 min Scan# 1568
 Delta R.T. -0.006 min
 Lab File: BF128328.D
 Acq: 18 May 2022 23:22

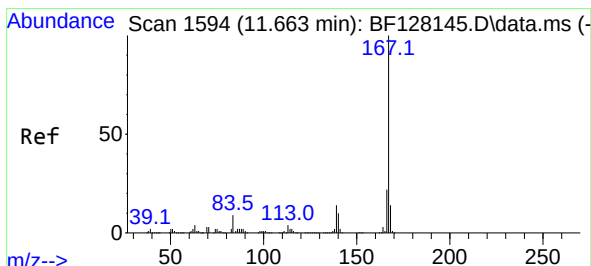
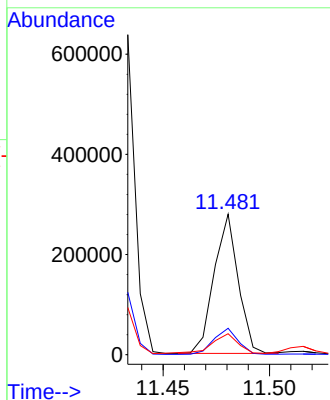
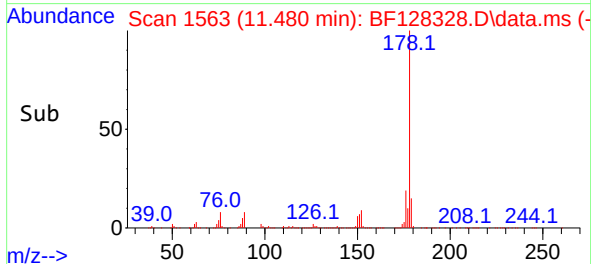
Instrument :
 BNA_F
 ClientSampleId :
 EO-02-051722



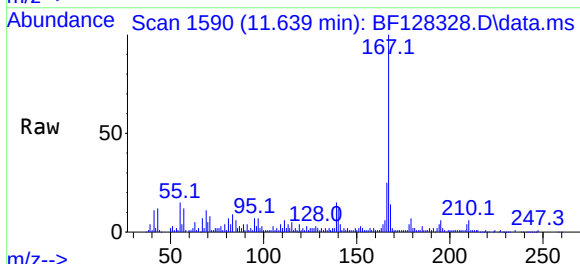
Tgt Ion:178 Resp: 21915
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.0 22.6
 179 14.9 12.4 18.6

Manual Integrations
 APPROVED

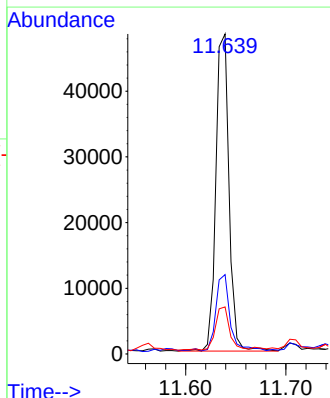
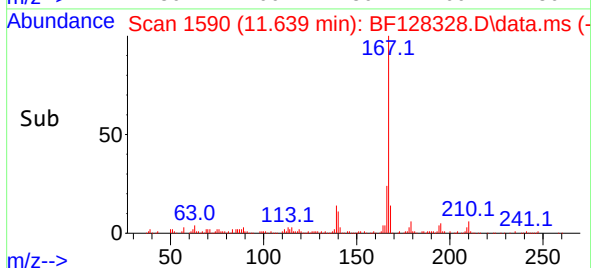
Reviewed By :Christian Giraldo 05/19/2022
 Supervised By :Jagrut Upadhyay 05/19/2022

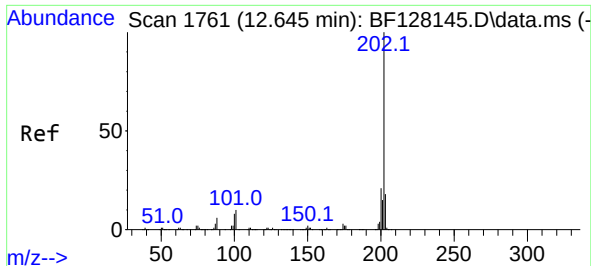


#73
 Carbazole
 Concen: 4.803 ng
 RT: 11.639 min Scan# 1590
 Delta R.T. -0.006 min
 Lab File: BF128328.D
 Acq: 18 May 2022 23:22



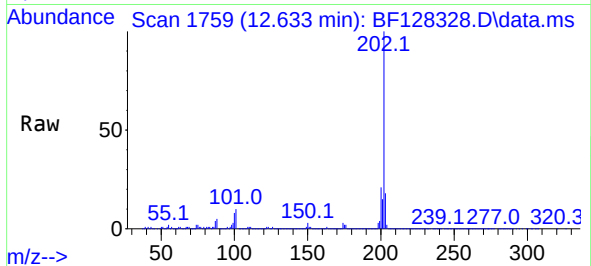
Tgt Ion:167 Resp: 44088
 Ion Ratio Lower Upper
 167 100
 166 24.8 17.6 26.4
 139 14.7 10.7 16.1





#75
Fluoranthene
Concen: 140.994 ng
RT: 12.633 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22

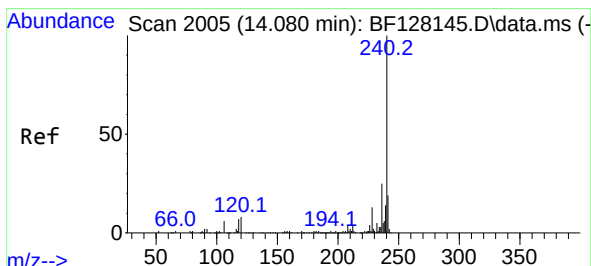
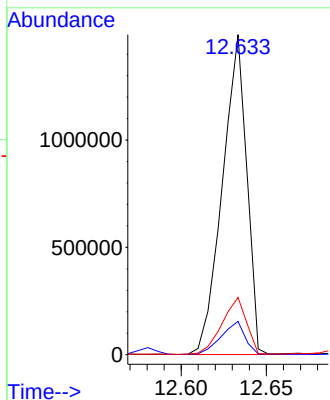
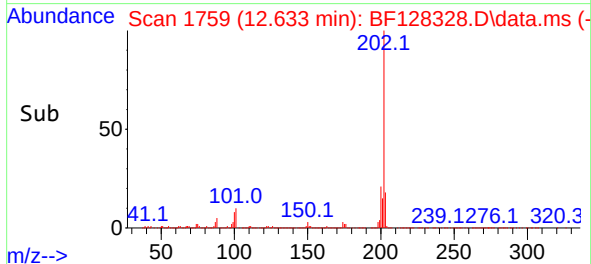
Instrument :
BNA_F
ClientSampleId :
EO-02-051722



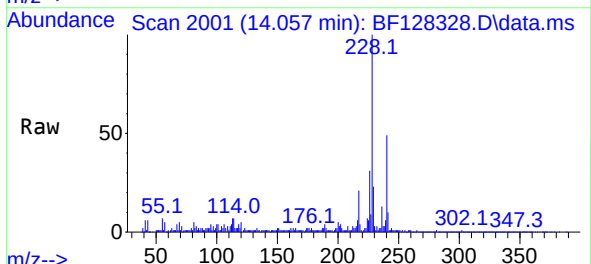
Tgt Ion:202 Resp: 147805
Ion Ratio Lower Upper
202 100
101 10.4 0.0 31.6
203 17.9 0.0 38.1

Manual Integrations
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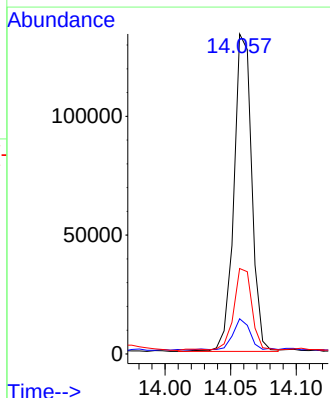
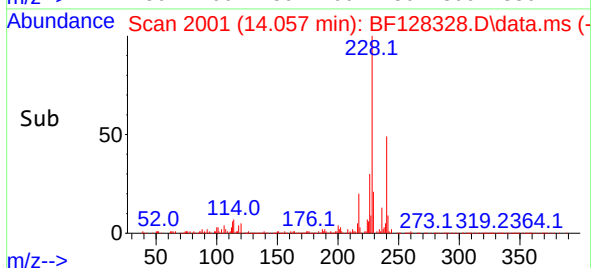
Reviewed By :Christian Giraldo 05/19/2022
Supervised By :Jagrut Upadhyay 05/19/2022

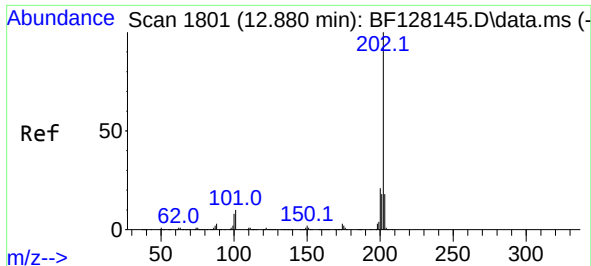


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2001
Delta R.T. 0.000 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22



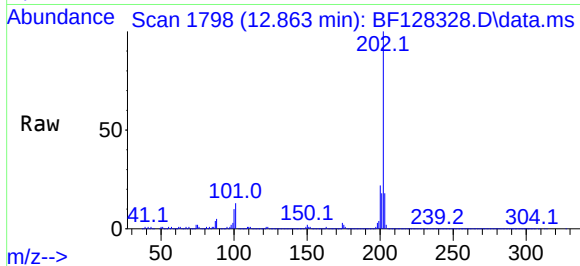
Tgt Ion:240 Resp: 126524
Ion Ratio Lower Upper
240 100
120 11.0 7.0 10.6#
236 26.7 20.3 30.5





#78
Pyrene
Concen: 140.135 ng
RT: 12.863 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22

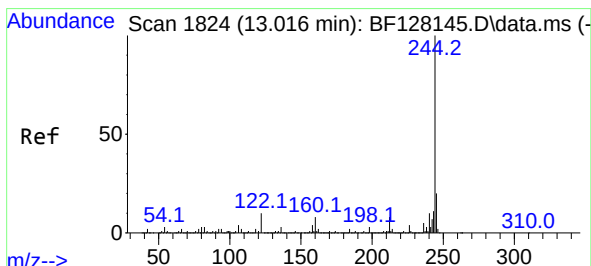
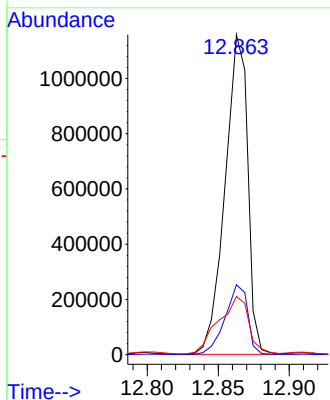
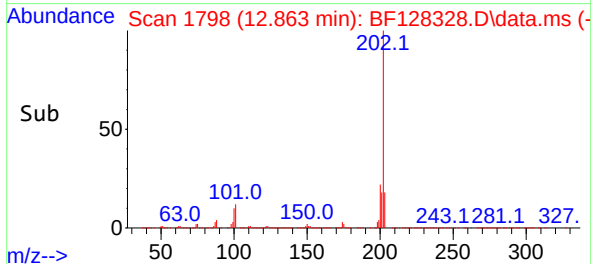
Instrument :
BNA_F
ClientSampleId :
EO-02-051722



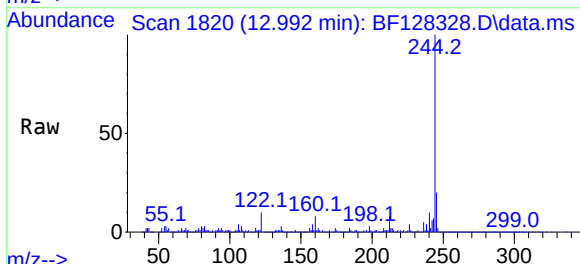
Tgt Ion:202 Resp: 1285614
Ion Ratio Lower Upper
202 100
200 21.9 17.4 26.2
203 18.2 14.0 21.0

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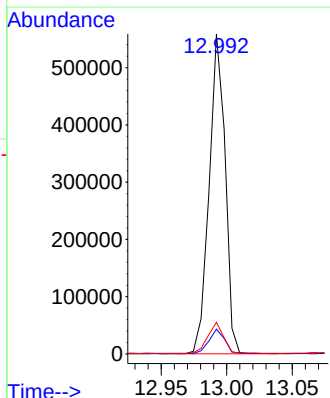
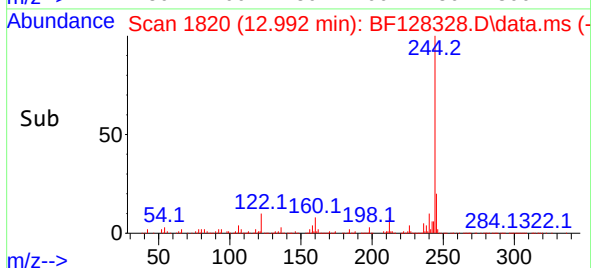
Reviewed By :Christian Giraldo 05/19/2022
Supervised By :Jagrut Upadhyay 05/19/2022

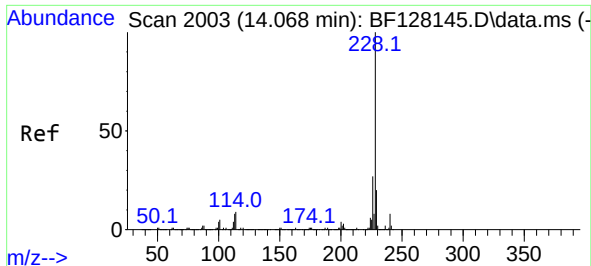


#79
Terphenyl-d14
Concen: 70.358 ng
RT: 12.992 min Scan# 1820
Delta R.T. 0.000 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22



Tgt Ion:244 Resp: 474415
Ion Ratio Lower Upper
244 100
212 7.8 6.2 9.4
122 9.9 8.6 12.8





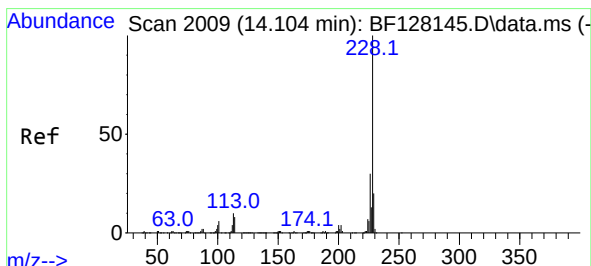
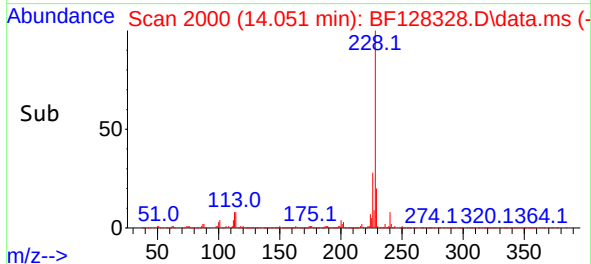
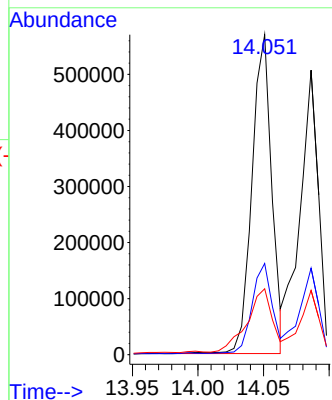
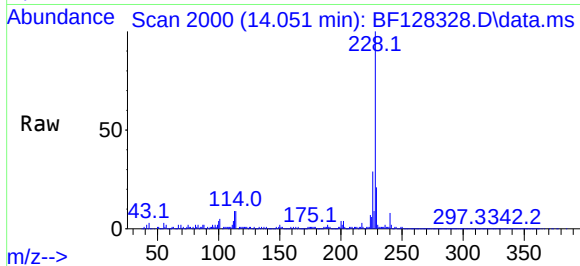
#81
Benzo(a)anthracene
Concen: 73.747 ng
RT: 14.051 min Scan# 2000
Delta R.T. 0.006 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22

Instrument :
BNA_F
ClientSampleId :
EO-02-051722

Tgt Ion:228 Resp: 59598
Ion Ratio Lower Upper
228 100
226 28.5 21.7 32.5
229 20.6 15.4 23.2

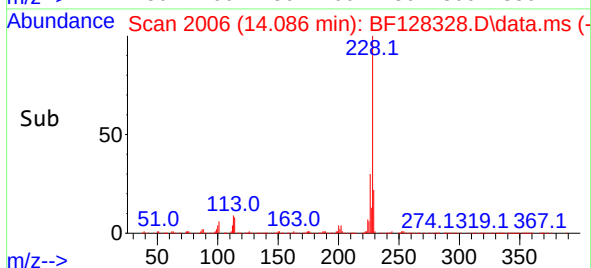
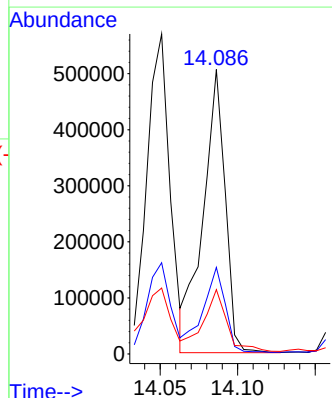
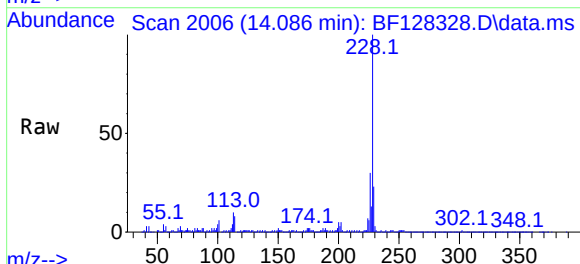
Manual Integrations
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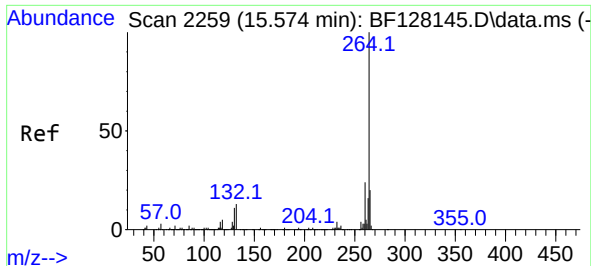
Reviewed By :Christian Giraldo 05/19/2022
Supervised By :Jagrut Upadhyay 05/19/2022



#83
Chrysene
Concen: 65.194 ng m
RT: 14.086 min Scan# 2006
Delta R.T. 0.006 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22

Tgt Ion:228 Resp: 502706
Ion Ratio Lower Upper
228 100
226 30.5 24.4 36.6
229 22.6 15.8 23.8





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22

Instrument :

BNA_F

ClientSampleId :

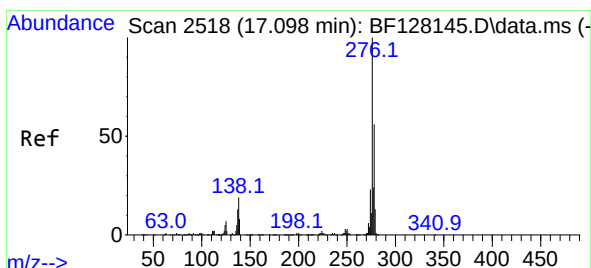
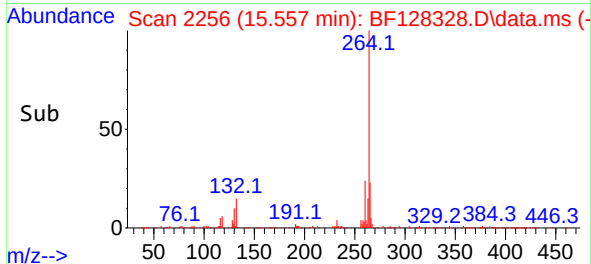
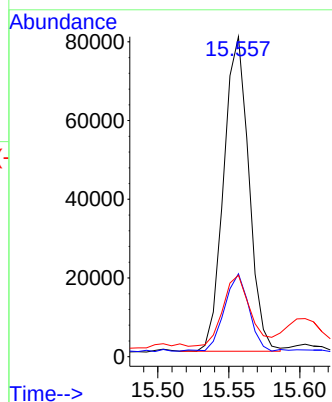
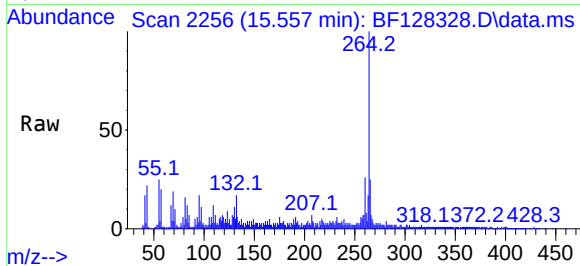
EO-02-051722

Tgt Ion:264 Resp: 98520
Ion Ratio Lower Upper
264 100
260 25.9 20.1 30.1
265 25.5 17.5 26.3

Manual Integrations

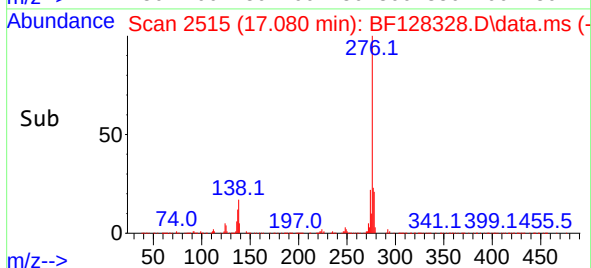
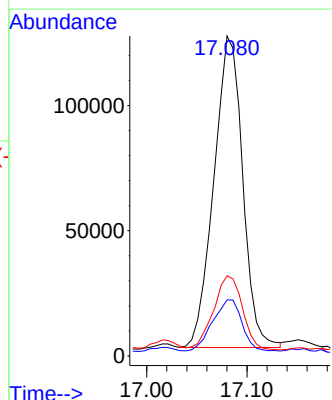
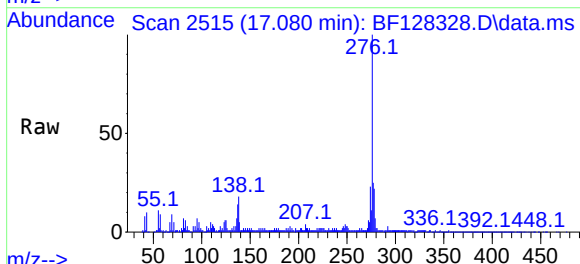
APPROVED

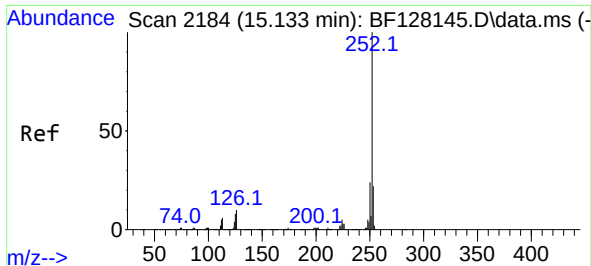
Reviewed By :Christian Giraldo 05/19/2022
Supervised By :Jagrut Upadhyay 05/19/2022



#87
Indeno(1,2,3-cd)pyrene
Concen: 41.593 ng
RT: 17.080 min Scan# 2515
Delta R.T. 0.018 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22

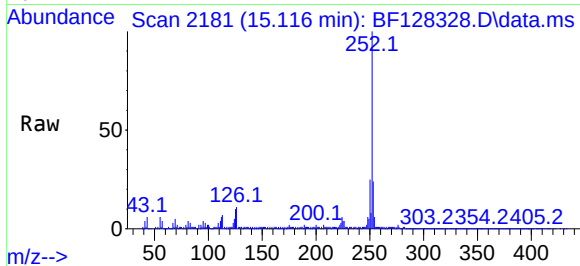
Tgt Ion:276 Resp: 247877
Ion Ratio Lower Upper
276 100
138 17.4 19.0 28.4#
277 24.0 20.1 30.1





#88
Benzo(b)fluoranthene
Concen: 89.542 ng m
RT: 15.116 min Scan# 2184
Delta R.T. 0.012 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22

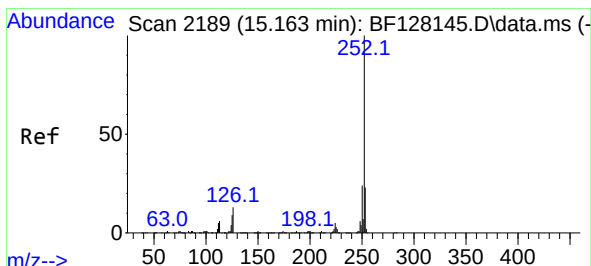
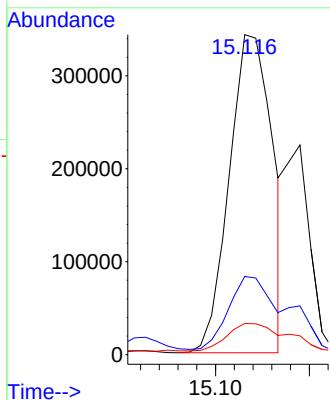
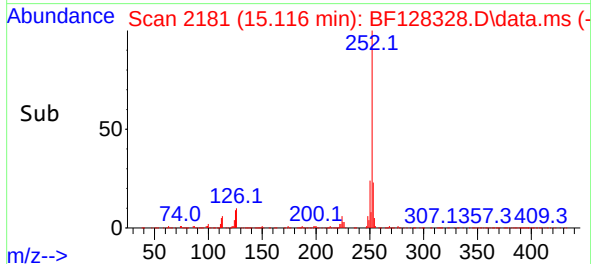
Instrument :
BNA_F
ClientSampleId :
EO-02-051722



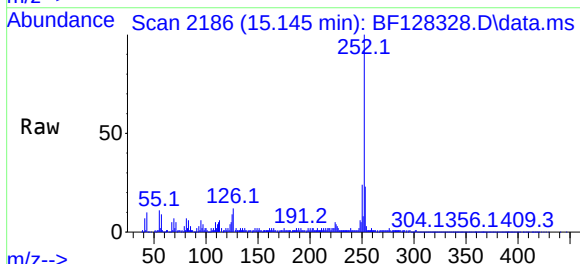
Tgt Ion:252 Resp: 54685
Ion Ratio Lower Upper
252 100
253 24.5 17.4 26.2
125 9.7 7.4 11.2

Manual Integrations
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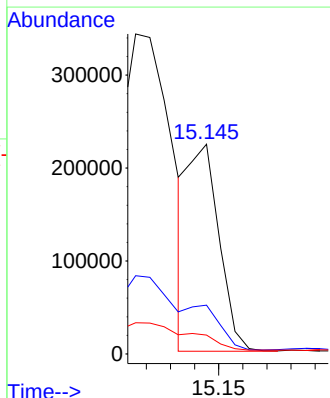
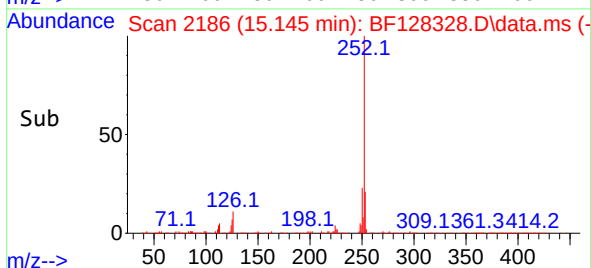
Reviewed By :Christian Giraldo 05/19/2022
Supervised By :Jagrut Upadhyay 05/19/2022

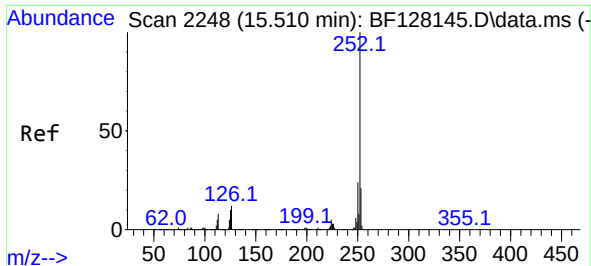


#89
Benzo(k)fluoranthene
Concen: 32.969 ng m
RT: 15.145 min Scan# 2186
Delta R.T. 0.012 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22



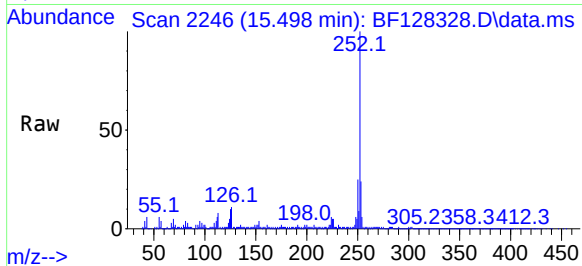
Tgt Ion:252 Resp: 198755
Ion Ratio Lower Upper
252 100
253 23.3 17.0 25.4
125 9.0 6.8 10.2





#90
Benzo(a)pyrene
Concen: 82.031 ng
RT: 15.498 min Scan# 2116
Delta R.T. 0.018 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22

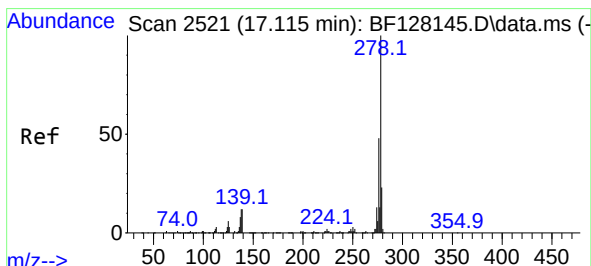
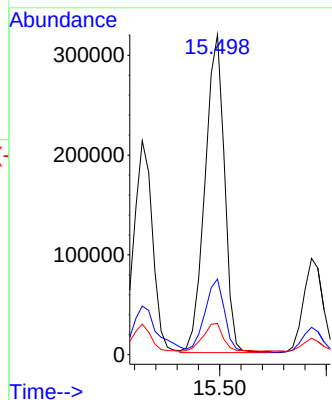
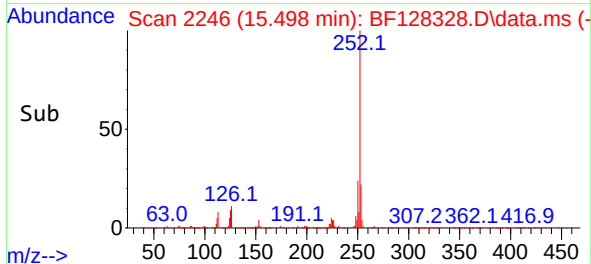
Instrument :
BNA_F
ClientSampleId :
EO-02-051722



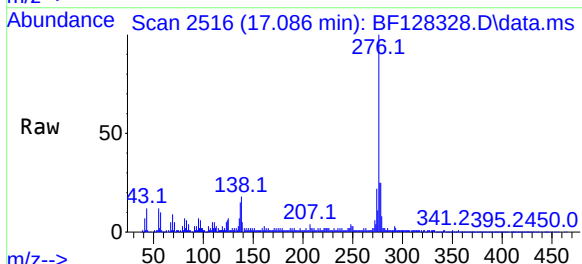
Tgt Ion:252 Resp: 404452
Ion Ratio Lower Upper
252 100
253 23.7 17.8 26.6
125 9.7 9.2 13.8

Manual Integrations
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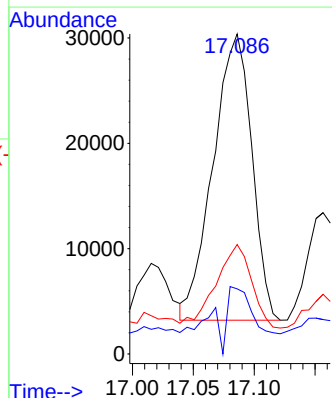
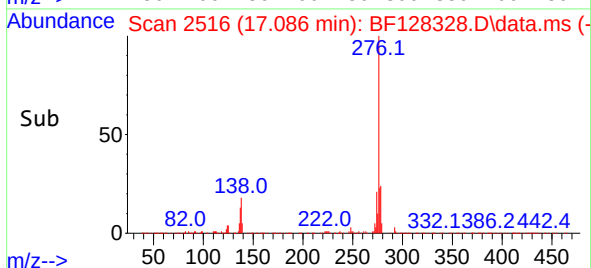
Reviewed By :Christian Giraldo 05/19/2022
Supervised By :Jagrut Upadhyay 05/19/2022

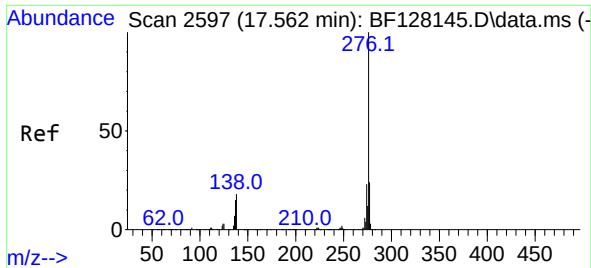


#91
Dibenzo(a,h)anthracene
Concen: 12.458 ng
RT: 17.086 min Scan# 2516
Delta R.T. 0.012 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22



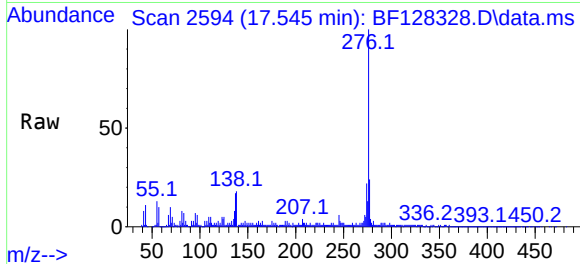
Tgt Ion:278 Resp: 60108
Ion Ratio Lower Upper
278 100
139 20.3 12.6 19.0#
279 34.2 18.9 28.3#





#92
Benzo(g,h,i)perylene
Concen: 48.234 ng
RT: 17.545 min Scan# 21
Delta R.T. 0.024 min
Lab File: BF128328.D
Acq: 18 May 2022 23:22

Instrument :
BNA_F
ClientSampleId :
EO-02-051722



Tgt Ion:	276	Resp:	23563
Ion Ratio	Lower	Upper	
276	100		
277	24.3	18.8	28.2
138	18.4	16.2	24.2

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 05/19/2022
Supervised By :Jagrut Upadhyay 05/19/2022

