

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031023\
 Data File : BF132747.D
 Acq On : 10 Mar 2023 18:11
 Operator : CG\JU
 Sample : 01846-04
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-4

Quant Time: Mar 11 03:04:42 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 09 16:26:19 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Christian Giraldo 03/13/2023
 Supervised By : Jagrut Upadhyay 03/13/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.981	152	220064	20.000	ng	0.00
21) Naphthalene-d8	8.263	136	877910	20.000	ng	0.00
39) Acenaphthene-d10	10.022	164	468920	20.000	ng	-0.01
64) Phenanthrene-d10	11.521	188	804696	20.000	ng	0.00
76) Chrysene-d12	14.186	240	391117	20.000	ng	0.00
86) Perylene-d12	15.727	264	506794	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.616	112	1464368	107.997	ng	0.00
7) Phenol-d6	6.610	99	1820857	102.896	ng	-0.01
23) Nitrobenzene-d5	7.545	82	1185332	64.058	ng	-0.01
42) 2,4,6-Tribromophenol	10.822	330	475655	93.926	ng	0.00
45) 2-Fluorobiphenyl	9.339	172	1969747	63.961	ng	0.00
79) Terphenyl-d14	13.115	244	1690749	73.089	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.286	128	497336	11.066	ng	99
37) 2-Methylnaphthalene	8.975	142	225452	7.361	ng	99
38) 1-Methylnaphthalene	9.075	142	148766	5.197	ng	98
52) Acenaphthene	10.057	154	383945	13.501	ng	100
55) Dibenzofuran	10.227	168	609306	14.697	ng	97
58) Fluorene	10.574	166	536265	16.911	ng	99
71) Phenanthrene	11.557	178	3809188	91.376	ng	99
72) Anthracene	11.604	178	1353596	31.532	ng	100
73) Carbazole	11.751	167	577354	14.917	ng	100
75) Fluoranthene	12.751	202	3285118	72.085	ng	97
78) Pyrene	12.986	202	2692545	75.720	ng	99
81) Benzo(a)anthracene	14.174	228	1451780	49.609	ng	98
83) Chrysene	14.210	228	1145296	41.852	ng	97
87) Indeno(1,2,3-cd)pyrene	17.315	276	396929	11.953	ng	98
88) Benzo(b)fluoranthene	15.268	252	1257759m	37.033	ng	
89) Benzo(k)fluoranthene	15.298	252	478564m	14.398	ng	
90) Benzo(a)pyrene	15.662	252	918269	28.889	ng	97
91) Dibenzo(a,h)anthracene	17.321	278	135711	5.016	ng	96
92) Benzo(g,h,i)perylene	17.798	276	316368	11.613	ng	99

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

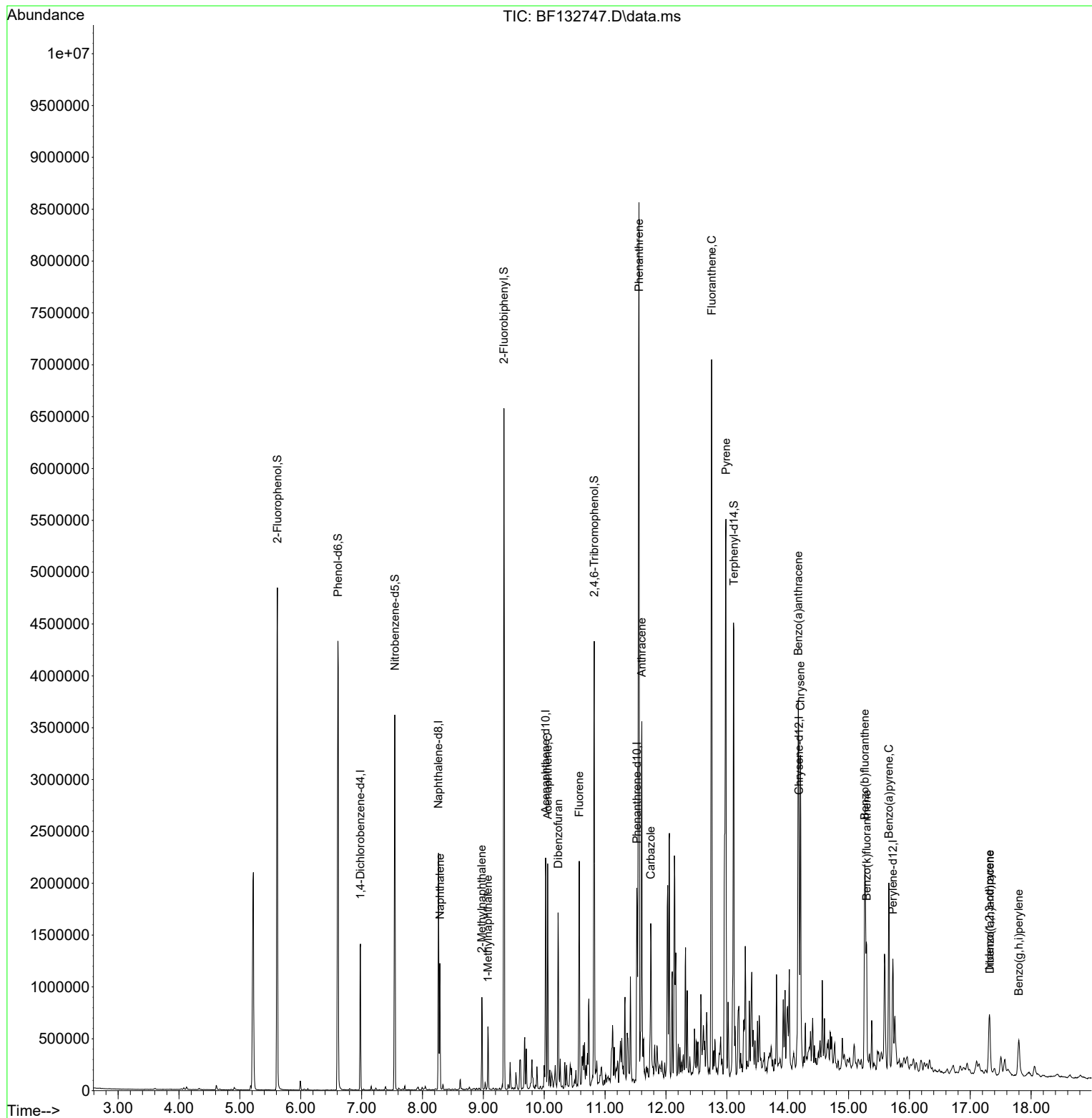
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031023\
Data File : BF132747.D
Acq On : 10 Mar 2023 18:11
Operator : CG\JU
Sample : 01846-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-4

Quant Time: Mar 11 03:04:42 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022223.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 09 16:26:19 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

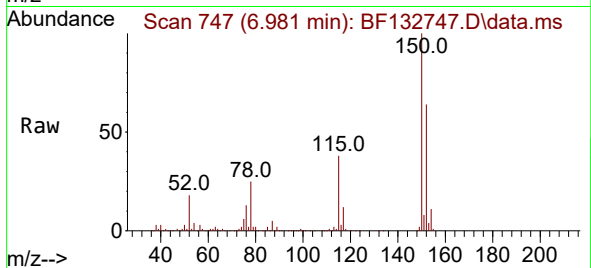
Reviewed By : Christian Giraldo 03/13/2023
Supervised By : Jagrut Upadhyay 03/13/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.981 min Scan# 74
Delta R.T. -0.000 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

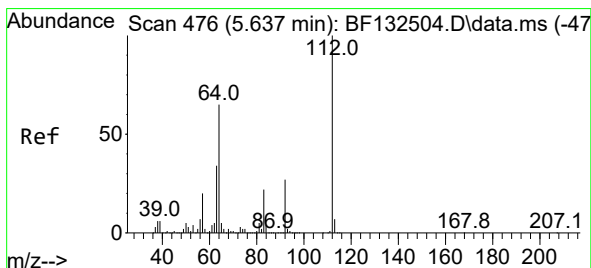
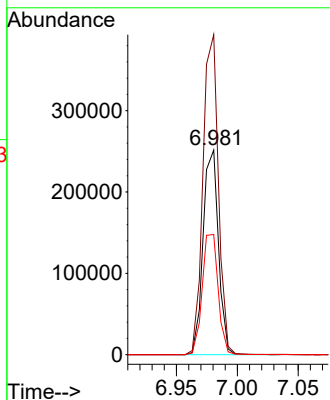
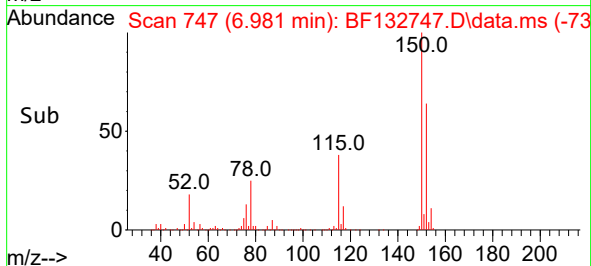
Instrument :
BNA_F
ClientSampleId :
TP-4



Tgt Ion:152 Resp: 220064
Ion Ratio Lower Upper
152 100
150 156.4 125.4 188.2
115 58.7 47.8 71.6

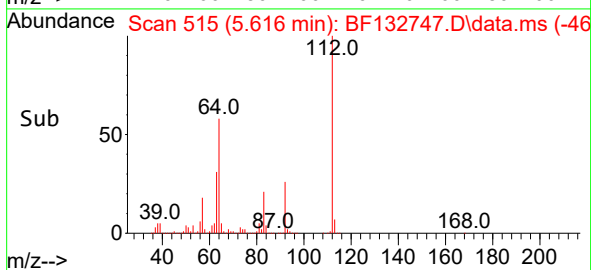
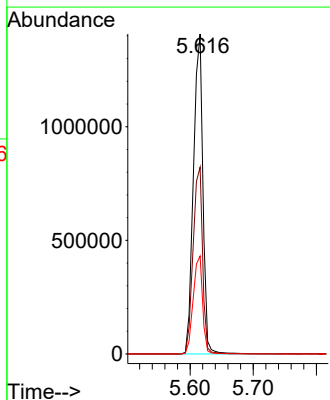
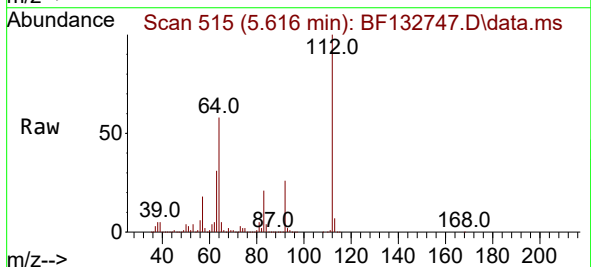
Manual Integrations
APPROVED

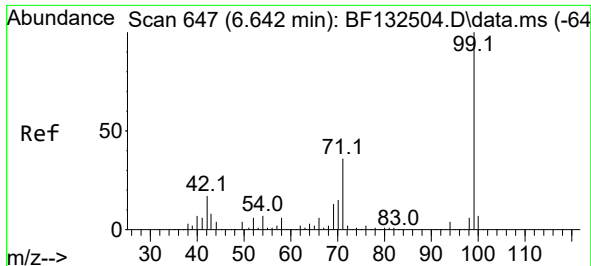
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023



#5
2-Fluorophenol
Concen: 107.997 ng
RT: 5.616 min Scan# 515
Delta R.T. 0.006 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

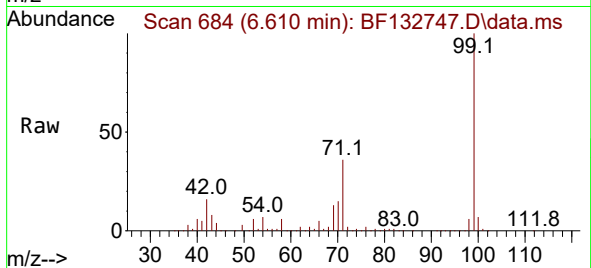
Tgt Ion:112 Resp: 1464368
Ion Ratio Lower Upper
112 100
64 58.3 51.6 77.4
63 30.6 27.4 41.2





#7
Phenol-d6
Concen: 102.896 ng
RT: 6.610 min Scan# 61
Delta R.T. -0.012 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

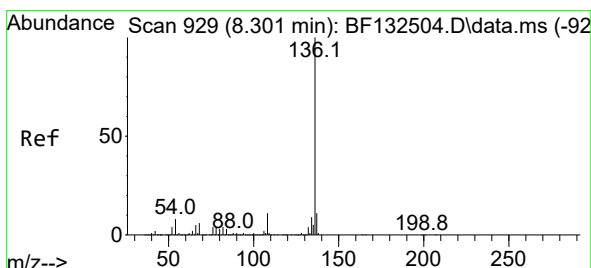
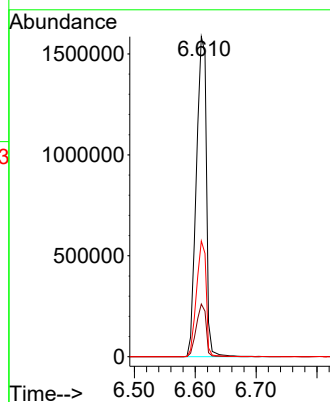
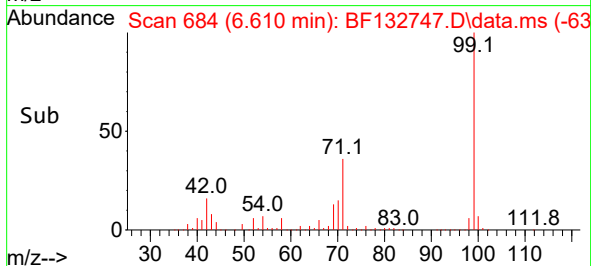
Instrument :
BNA_F
ClientSampleId :
TP-4



Tgt Ion: 99 Resp: 182085
Ion Ratio Lower Upper
99 100
42 16.4 13.9 20.9
71 36.2 28.5 42.7

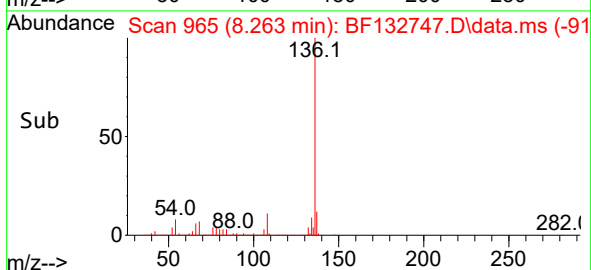
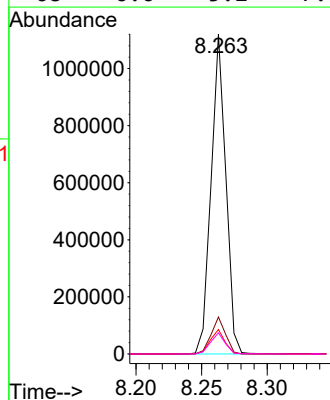
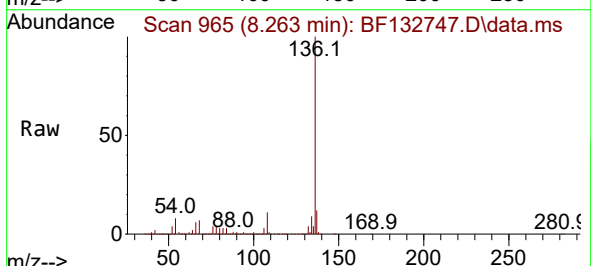
Manual Integrations
APPROVED

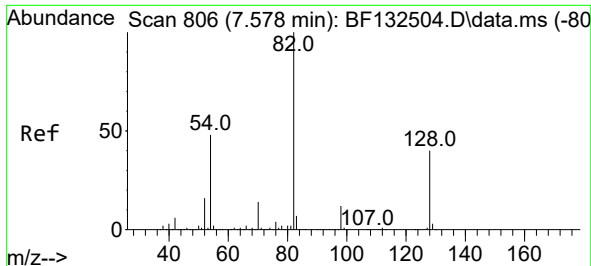
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.263 min Scan# 965
Delta R.T. -0.006 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

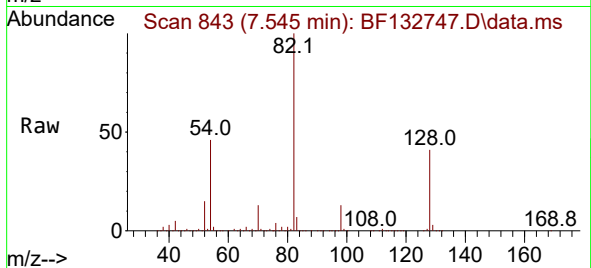
Tgt Ion:136 Resp: 877910
Ion Ratio Lower Upper
136 100
137 11.6 8.9 13.3
54 7.6 6.2 9.4
68 6.6 5.2 7.8





#23
Nitrobenzene-d5
Concen: 64.058 ng
RT: 7.545 min Scan# 843
Delta R.T. -0.012 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

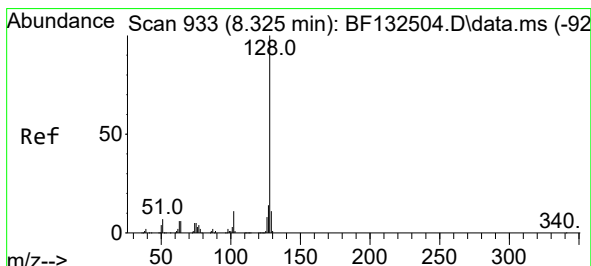
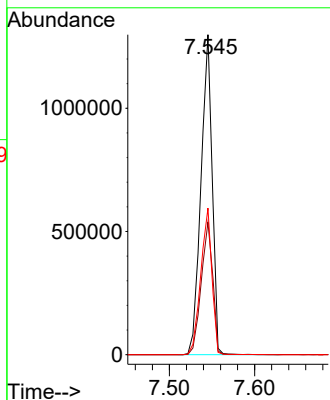
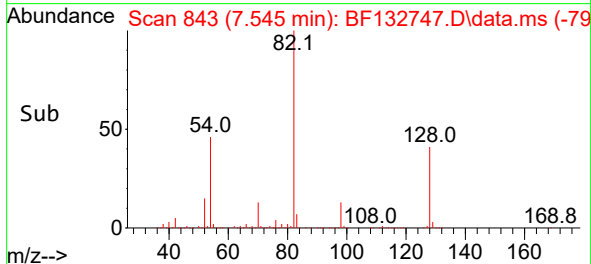
Instrument :
BNA_F
ClientSampleId :
TP-4



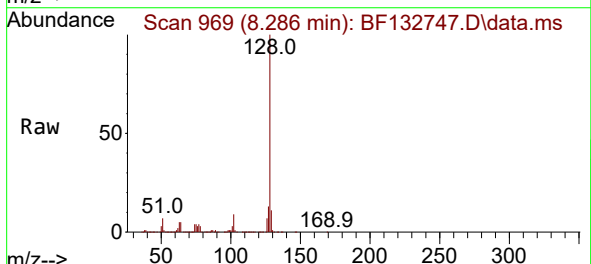
Tgt Ion: 82 Resp: 118533
Ion Ratio Lower Upper
82 100
128 41.4 32.2 48.2
54 45.8 38.4 57.6

Manual Integrations
APPROVED

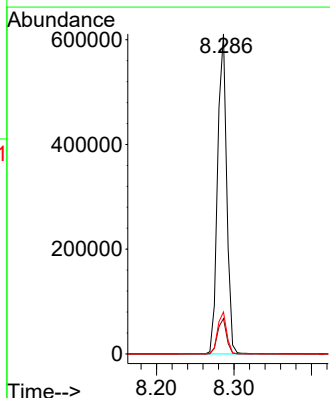
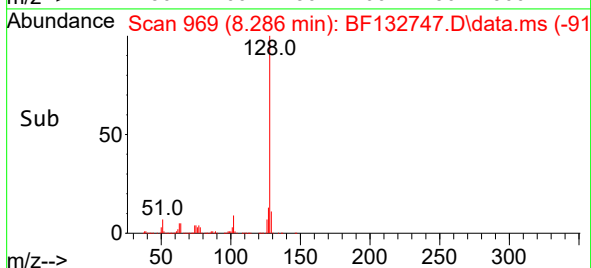
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023

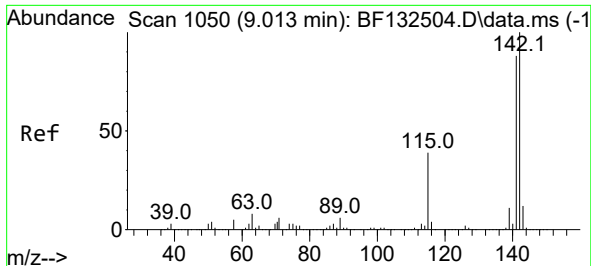


#31
Naphthalene
Concen: 11.066 ng
RT: 8.286 min Scan# 969
Delta R.T. -0.006 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11



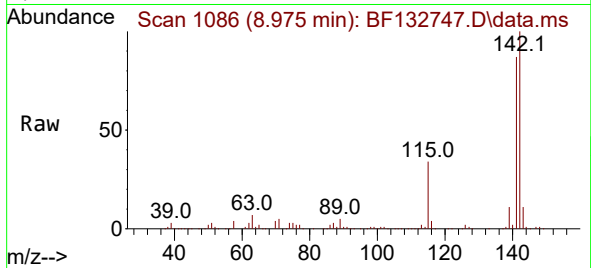
Tgt Ion:128 Resp: 497336
Ion Ratio Lower Upper
128 100
129 11.0 9.1 13.7
127 13.1 11.0 16.6





#37
2-Methylnaphthalene
Concen: 7.361 ng
RT: 8.975 min Scan# 1103
Delta R.T. -0.012 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

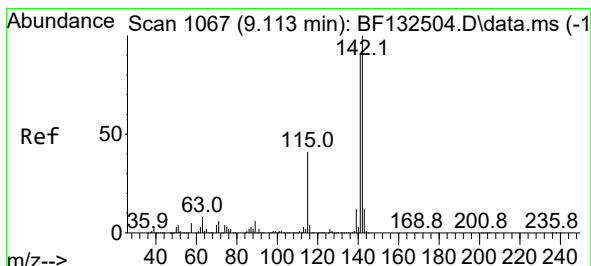
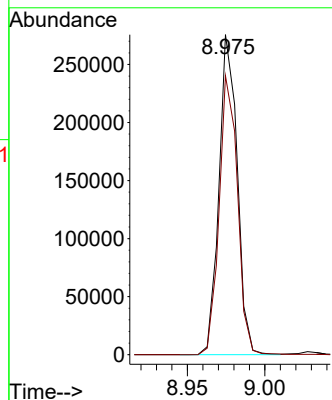
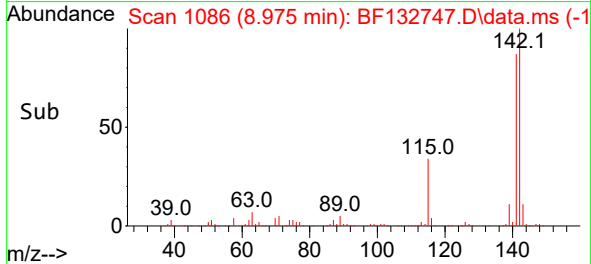
Instrument :
BNA_F
ClientSampleId :
TP-4



Tgt Ion:142 Resp: 225452
Ion Ratio Lower Upper
142 100
141 87.2 70.2 105.2

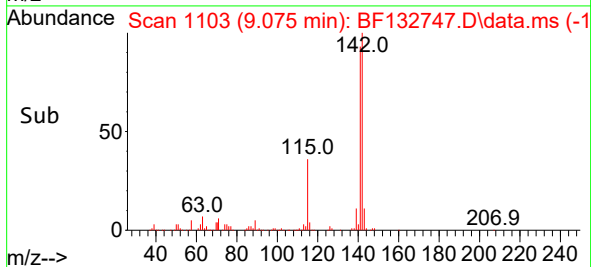
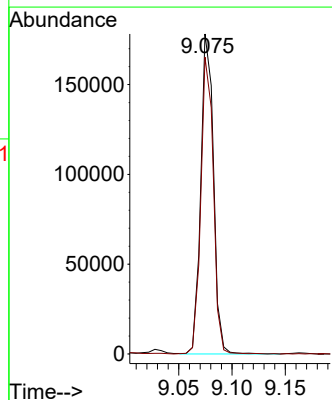
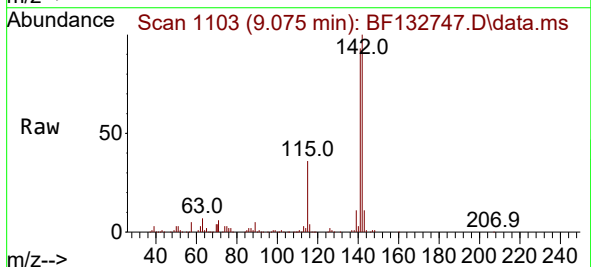
Manual Integrations
APPROVED

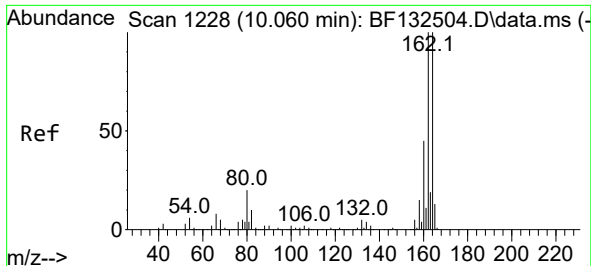
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023



#38
1-Methylnaphthalene
Concen: 5.197 ng
RT: 9.075 min Scan# 1103
Delta R.T. -0.012 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

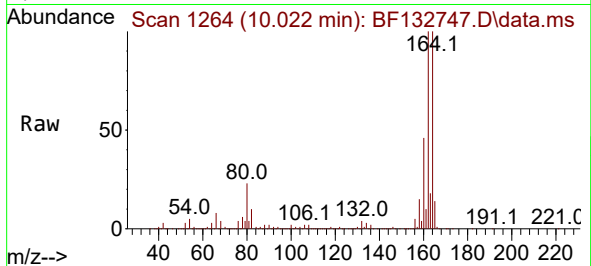
Tgt Ion:142 Resp: 148766
Ion Ratio Lower Upper
142 100
141 92.7 73.0 109.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.022 min Scan# 1400
Delta R.T. -0.012 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

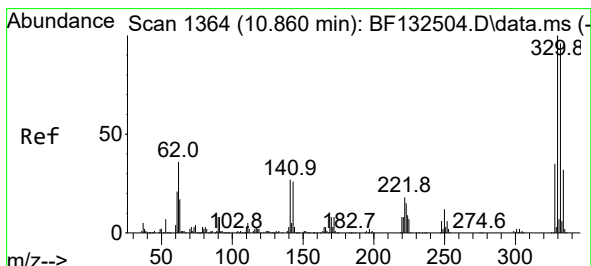
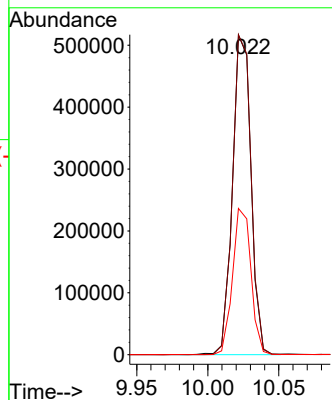
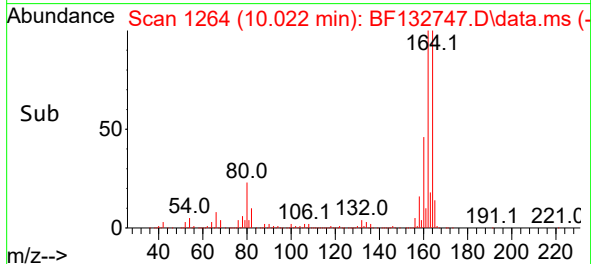
Instrument :
BNA_F
ClientSampleId :
TP-4



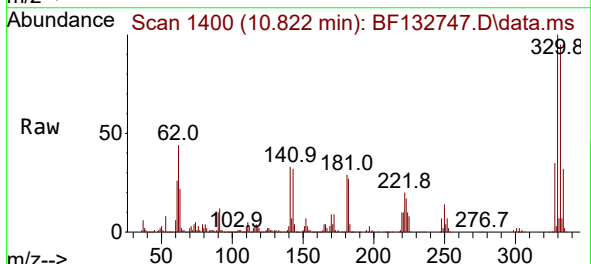
Tgt Ion:164 Resp: 468920
Ion Ratio Lower Upper
164 100
162 100.1 79.8 119.8
160 45.8 35.8 53.6

Manual Integrations
APPROVED

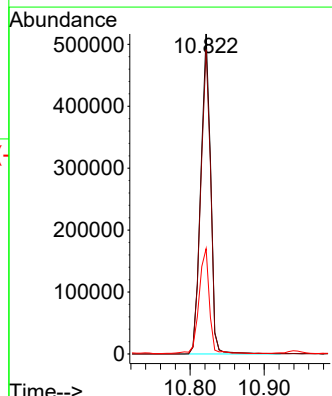
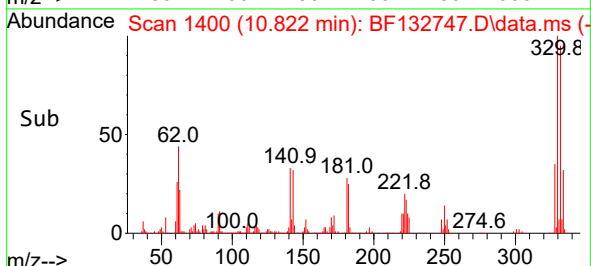
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023

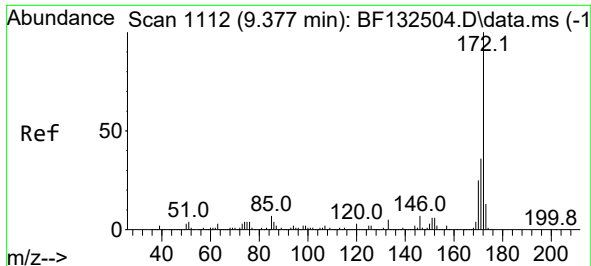


#42
2,4,6-Tribromophenol
Concen: 93.926 ng
RT: 10.822 min Scan# 1400
Delta R.T. -0.006 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11



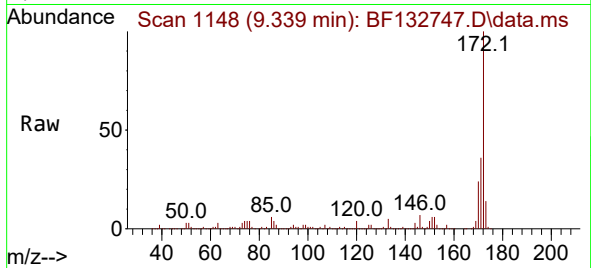
Tgt Ion:330 Resp: 475655
Ion Ratio Lower Upper
330 100
332 96.1 76.2 114.4
141 34.5 28.4 42.6





#45
2-Fluorobiphenyl
Concen: 63.961 ng
RT: 9.339 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

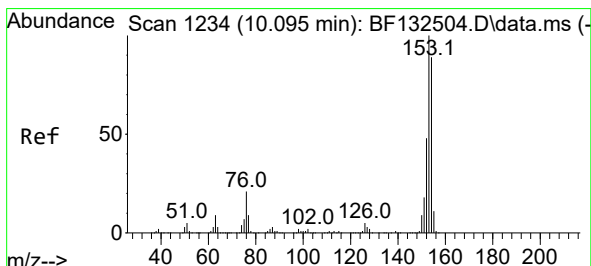
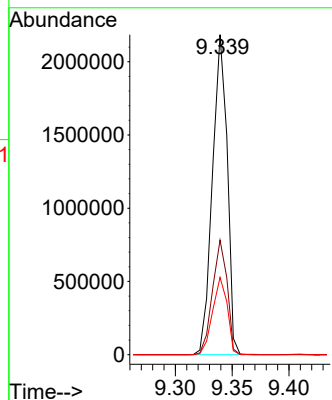
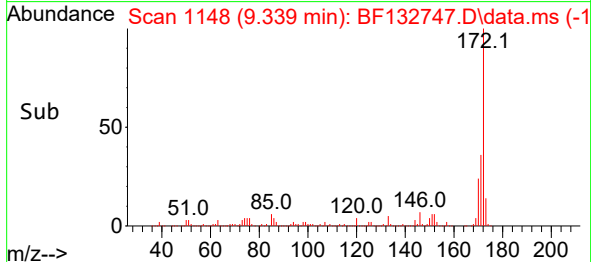
Instrument :
BNA_F
ClientSampleId :
TP-4



Tgt Ion:172 Resp: 196974
Ion Ratio Lower Upper
172 100
171 35.8 28.8 43.2
170 24.1 19.7 29.5

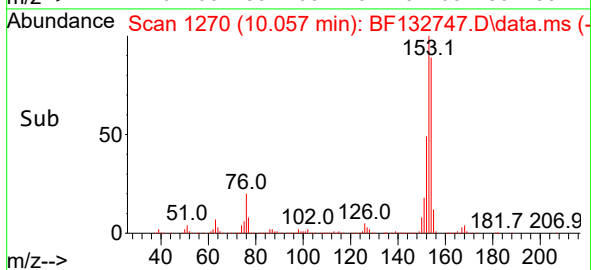
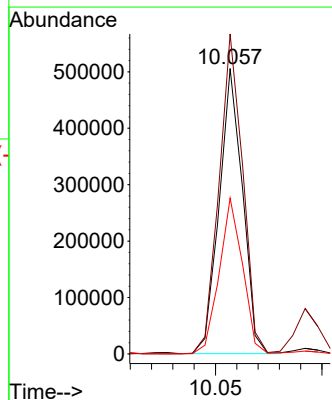
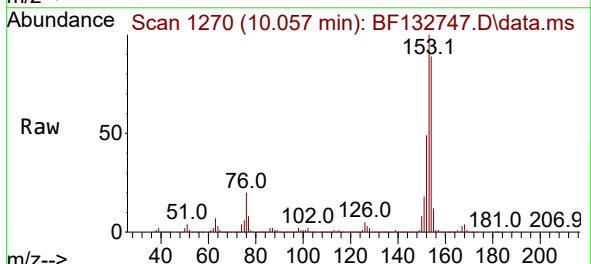
Manual Integrations
APPROVED

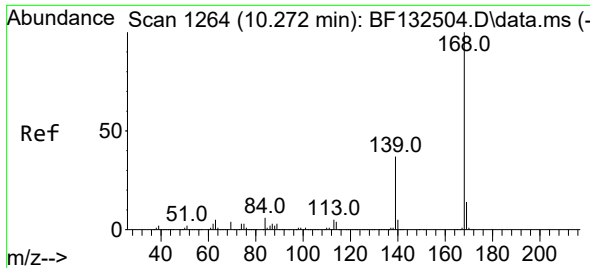
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023



#52
Acenaphthene
Concen: 13.501 ng
RT: 10.057 min Scan# 1270
Delta R.T. -0.012 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

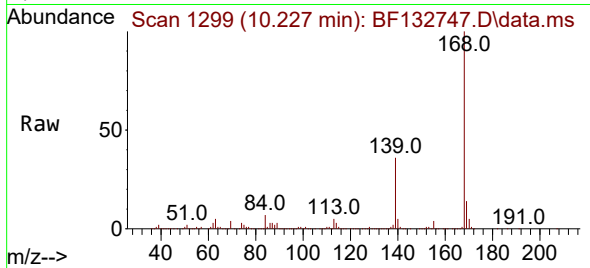
Tgt Ion:154 Resp: 383945
Ion Ratio Lower Upper
154 100
153 112.1 89.8 134.8
152 54.6 43.3 64.9





#55
Dibenzenofuran
Concen: 14.697 ng
RT: 10.227 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

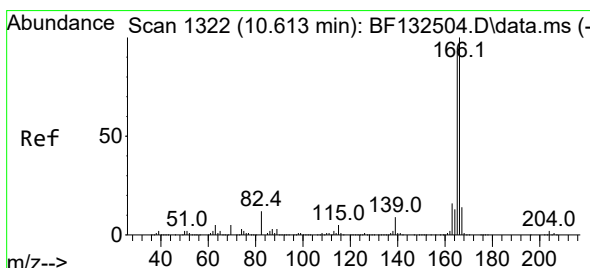
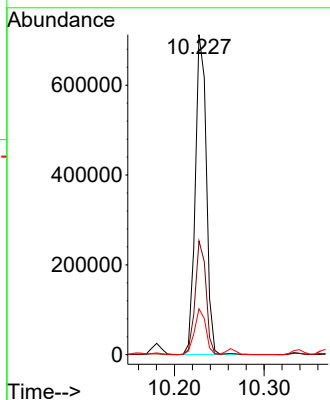
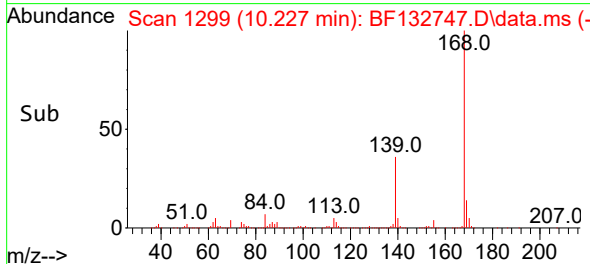
Instrument :
BNA_F
ClientSampleId :
TP-4



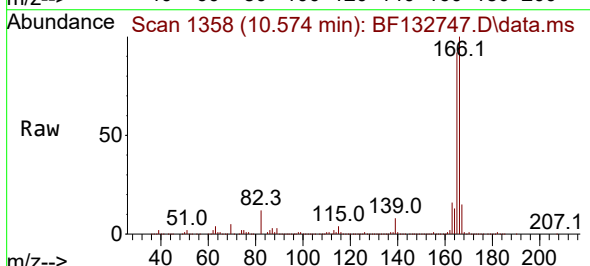
Tgt Ion:168 Resp: 609300
Ion Ratio Lower Upper
168 100
139 35.5 29.8 44.6
169 14.4 10.9 16.3

Manual Integrations
APPROVED

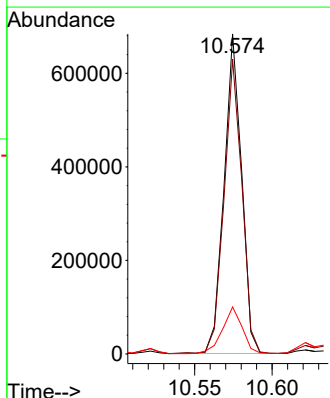
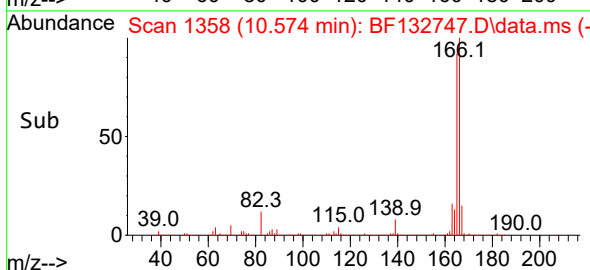
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023

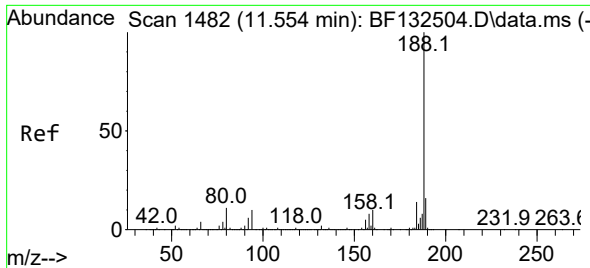


#58
Fluorene
Concen: 16.911 ng
RT: 10.574 min Scan# 1358
Delta R.T. -0.012 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11



Tgt Ion:166 Resp: 536265
Ion Ratio Lower Upper
166 100
165 92.1 74.2 111.4
167 14.7 11.1 16.7





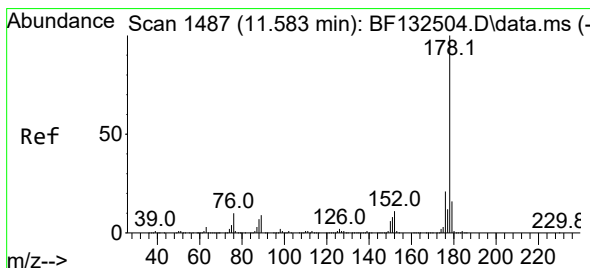
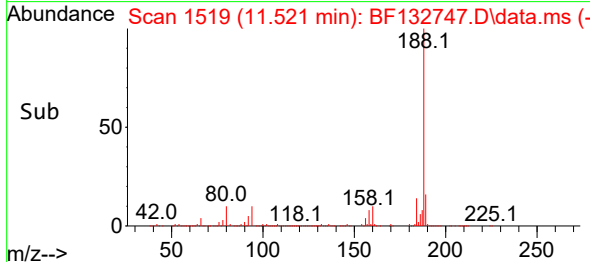
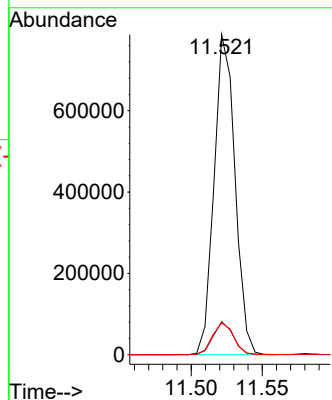
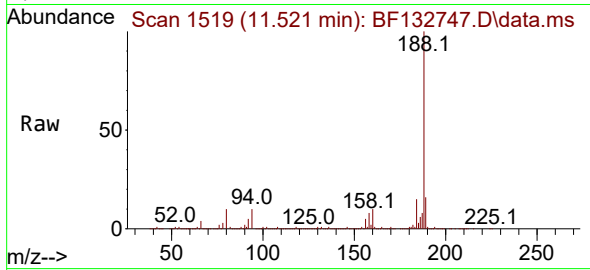
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.521 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

Instrument :
BNA_F
ClientSampleId :
TP-4

Tgt Ion:188 Resp: 804690
Ion Ratio Lower Upper
188 100
94 10.4 8.3 12.5
80 10.0 8.7 13.1

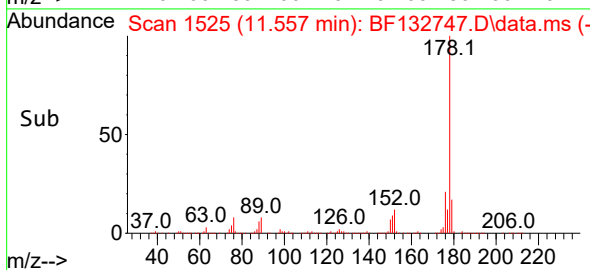
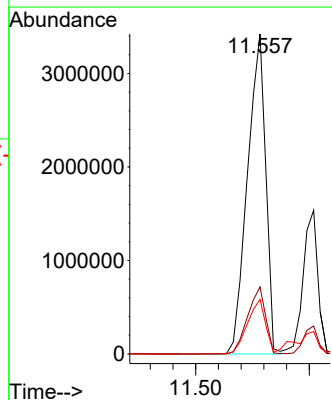
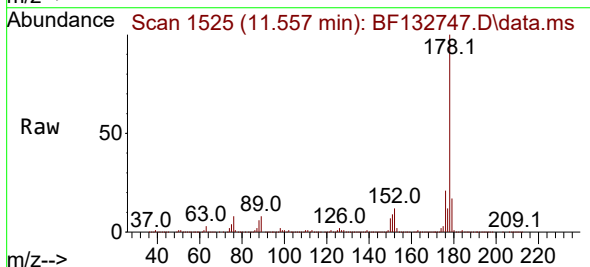
Manual Integrations
APPROVED

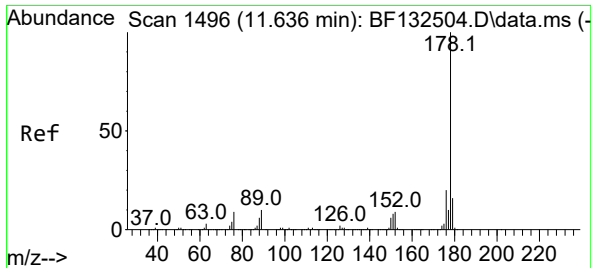
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023



#71
Phenanthrene
Concen: 91.376 ng
RT: 11.557 min Scan# 1525
Delta R.T. 0.000 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

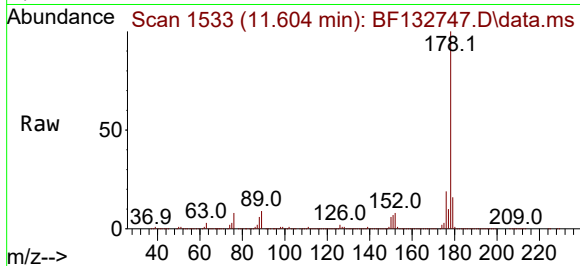
Tgt Ion:178 Resp: 3809188
Ion Ratio Lower Upper
178 100
176 20.9 16.5 24.7
179 17.0 13.0 19.6





#72
 Anthracene
 Concen: 31.532 ng
 RT: 11.604 min Scan# 1558
 Delta R.T. 0.000 min
 Lab File: BF132747.D
 Acq: 10 Mar 2023 18:11

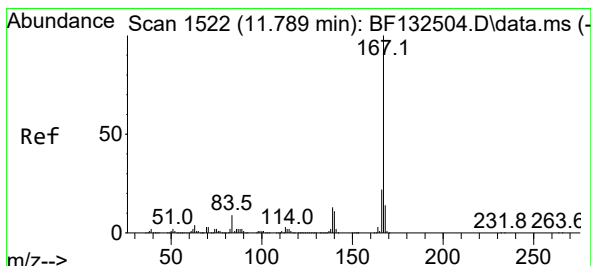
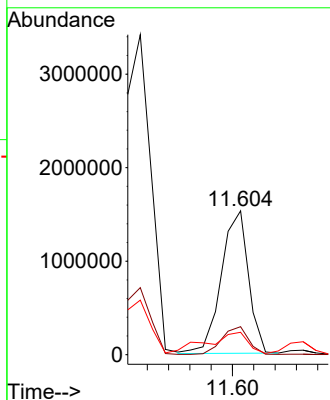
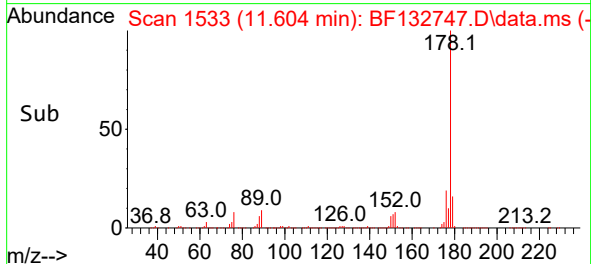
Instrument :
 BNA_F
 ClientSampleId :
 TP-4



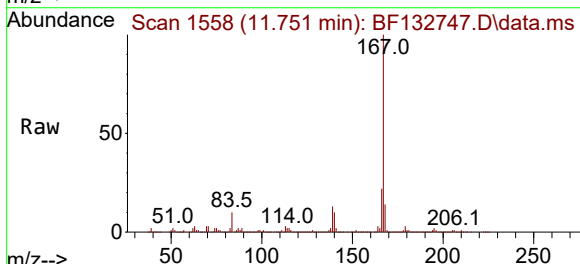
Tgt Ion:178 Resp: 1353590
 Ion Ratio Lower Upper
 178 100
 176 19.5 15.6 23.4
 179 15.6 12.5 18.7

Manual Integrations
 APPROVED

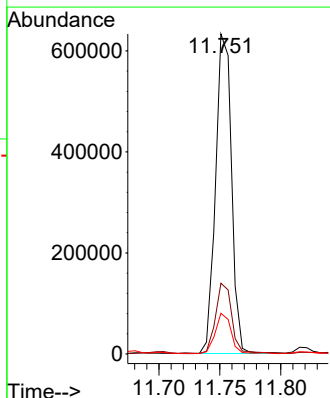
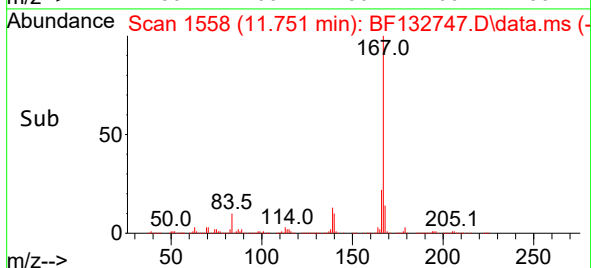
Reviewed By :Christian Giraldo 03/13/2023
 Supervised By :Jagrut Upadhyay 03/13/2023

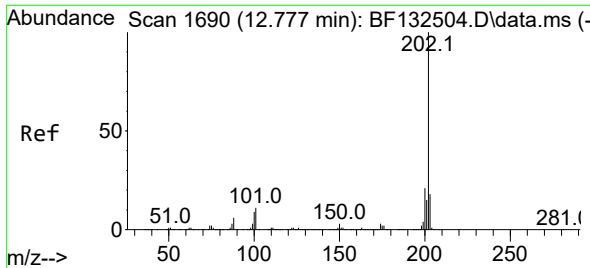


#73
 Carbazole
 Concen: 14.917 ng
 RT: 11.751 min Scan# 1558
 Delta R.T. -0.012 min
 Lab File: BF132747.D
 Acq: 10 Mar 2023 18:11



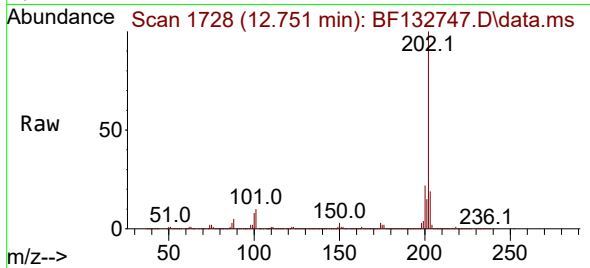
Tgt Ion:167 Resp: 577354
 Ion Ratio Lower Upper
 167 100
 166 22.1 17.7 26.5
 139 12.7 10.5 15.7





#75
Fluoranthene
Concen: 72.085 ng
RT: 12.751 min Scan# 1728
Delta R.T. 0.000 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

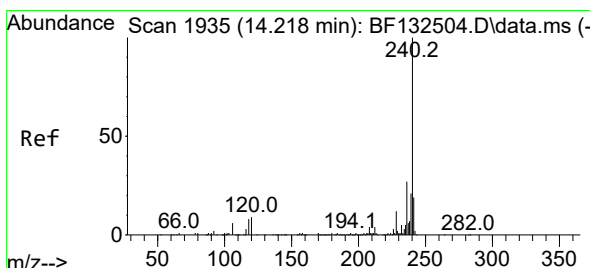
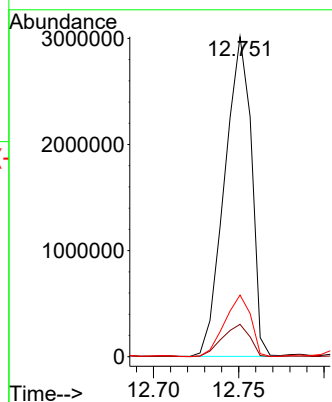
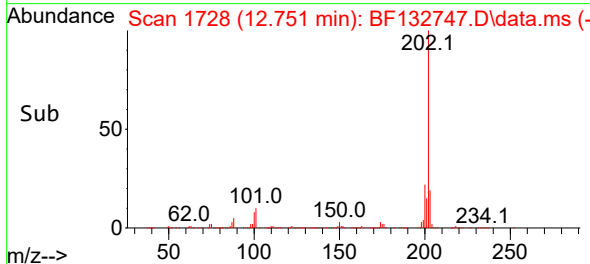
Instrument :
BNA_F
ClientSampleId :
TP-4



Tgt Ion:202 Resp: 3285118
Ion Ratio Lower Upper
202 100
101 10.1 0.0 31.4
203 19.2 0.0 38.0

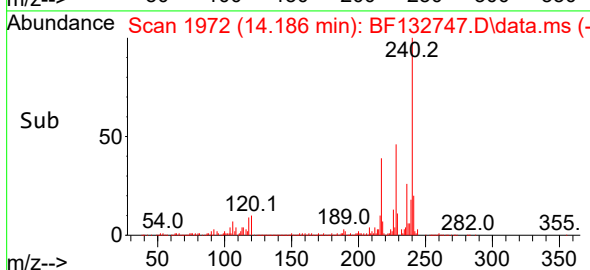
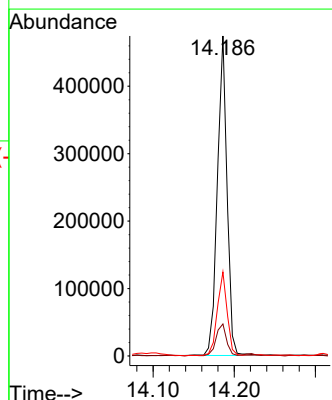
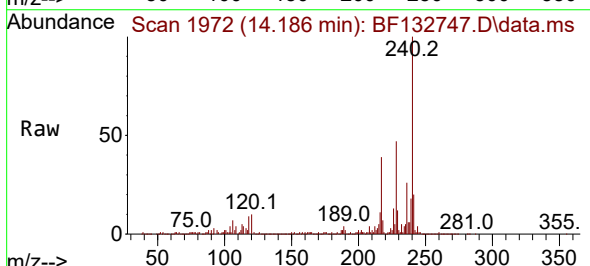
Manual Integrations
APPROVED

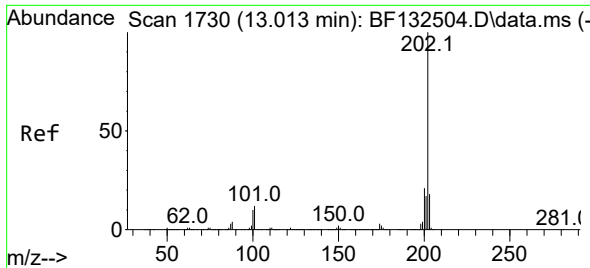
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.186 min Scan# 1972
Delta R.T. 0.000 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

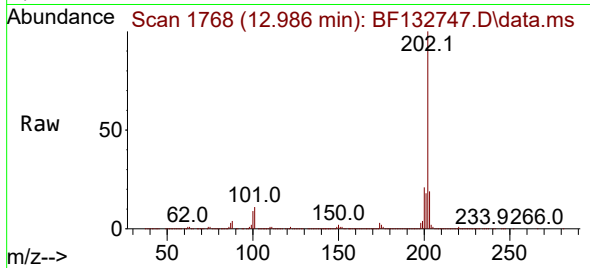
Tgt Ion:240 Resp: 391117
Ion Ratio Lower Upper
240 100
120 10.0 7.2 10.8
236 26.3 21.8 32.6





#78
Pyrene
Concen: 75.720 ng
RT: 12.986 min Scan# 1768
Delta R.T. 0.006 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

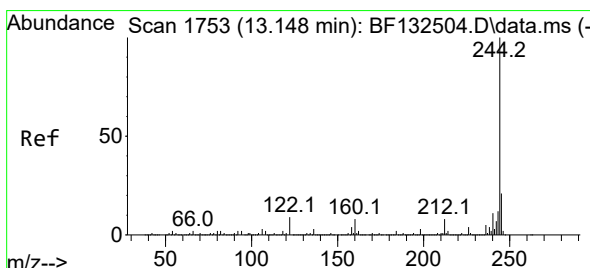
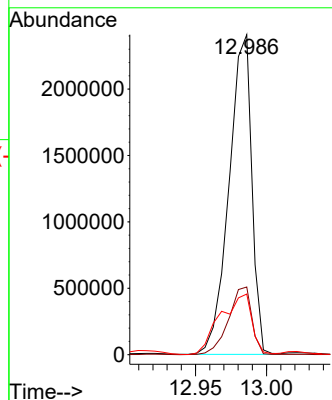
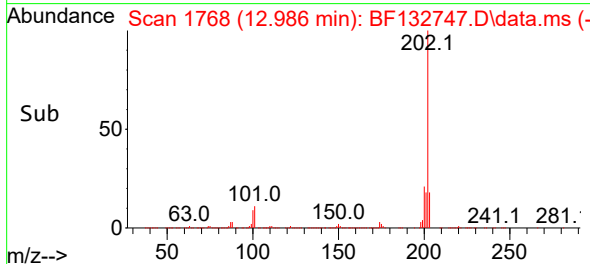
Instrument :
BNA_F
ClientSampleId :
TP-4



Tgt Ion:202 Resp: 2692549
Ion Ratio Lower Upper
202 100
200 21.2 17.1 25.7
203 19.0 14.6 21.8

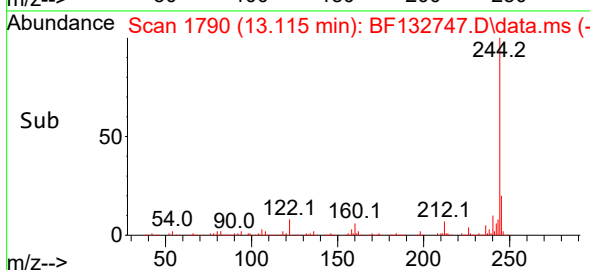
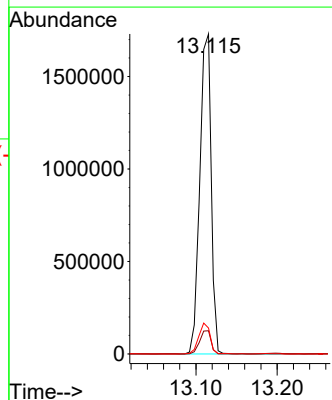
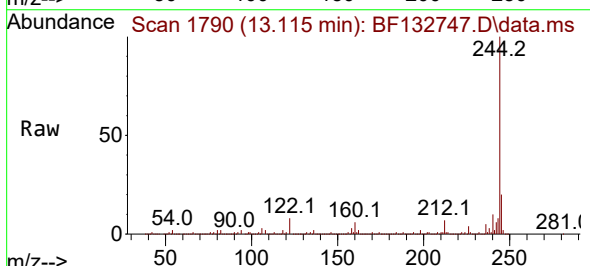
Manual Integrations
APPROVED

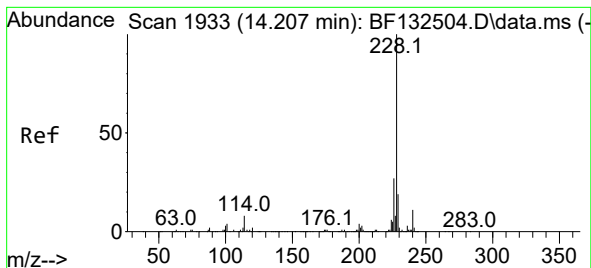
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023



#79
Terphenyl-d14
Concen: 73.089 ng
RT: 13.115 min Scan# 1790
Delta R.T. 0.000 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

Tgt Ion:244 Resp: 1690749
Ion Ratio Lower Upper
244 100
212 7.3 6.5 9.7
122 8.1 7.5 11.3





#81

Benzo(a)anthracene

Concen: 49.609 ng

RT: 14.174 min Scan# 1933

Delta R.T. 0.000 min

Lab File: BF132747.D

Acq: 10 Mar 2023 18:11

Instrument :

BNA_F

ClientSampleId :

TP-4

Tgt Ion:228 Resp: 1451780

Ion Ratio Lower Upper

228 100

226 28.0 21.7 32.5

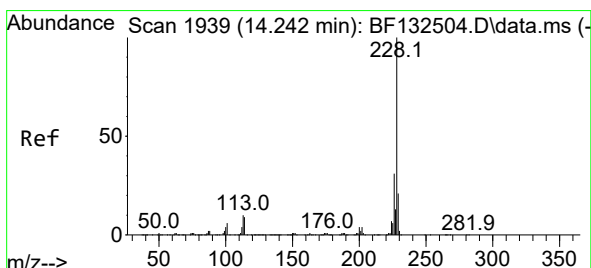
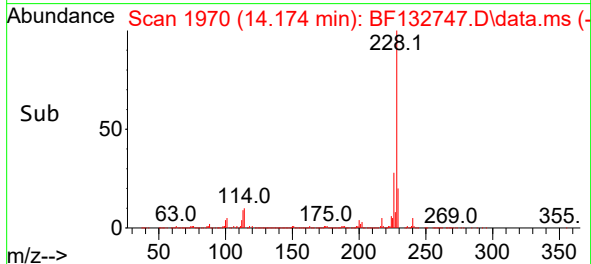
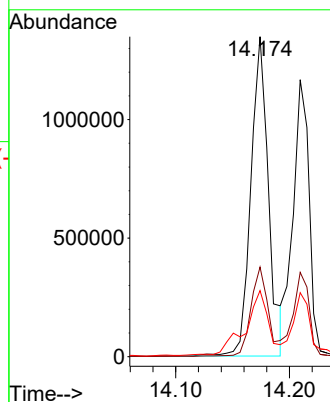
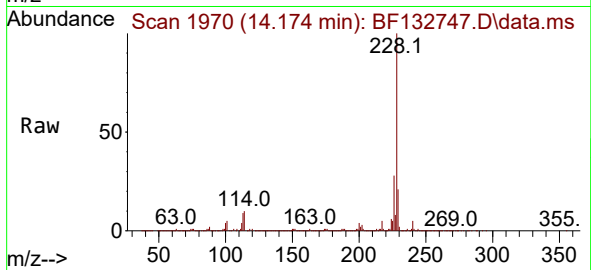
229 20.7 15.4 23.2

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/13/2023

Supervised By :Jagrut Upadhyay 03/13/2023



#83

Chrysene

Concen: 41.852 ng

RT: 14.210 min Scan# 1976

Delta R.T. -0.006 min

Lab File: BF132747.D

Acq: 10 Mar 2023 18:11

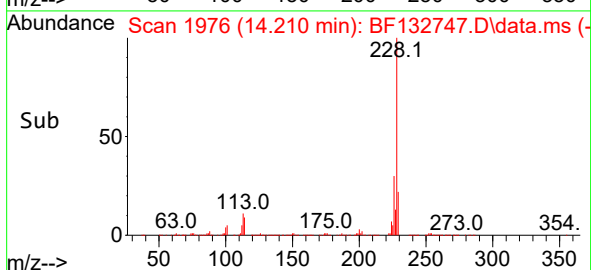
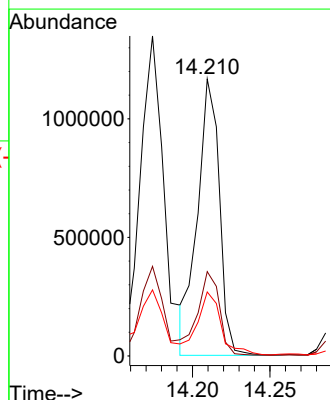
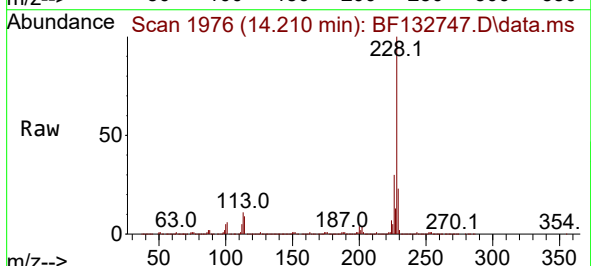
Tgt Ion:228 Resp: 1145296

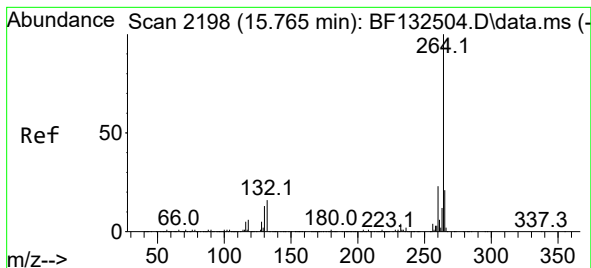
Ion Ratio Lower Upper

228 100

226 30.4 25.0 37.6

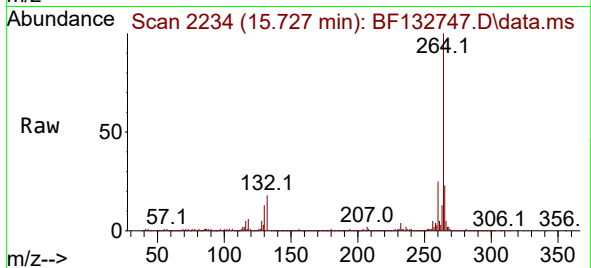
229 23.1 16.4 24.6





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.727 min Scan# 2198
Delta R.T. 0.000 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

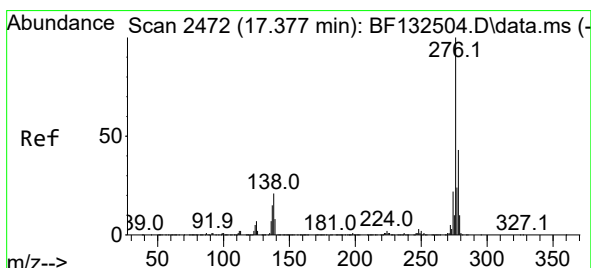
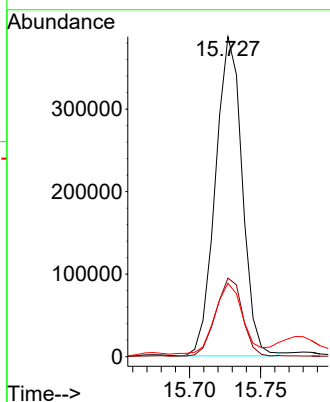
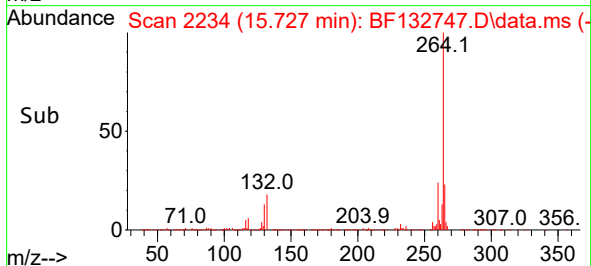
Instrument :
BNA_F
ClientSampleId :
TP-4



Tgt Ion:264 Resp: 506794
Ion Ratio Lower Upper
264 100
260 24.6 18.8 28.2
265 23.0 17.1 25.7

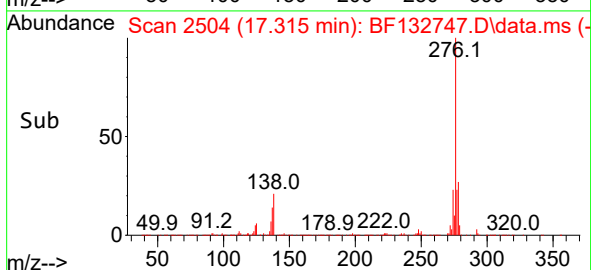
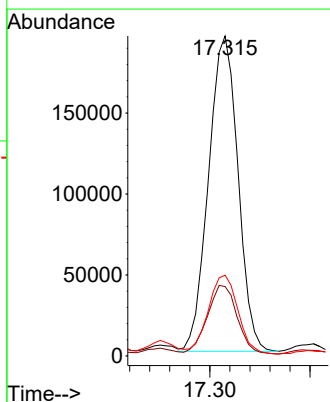
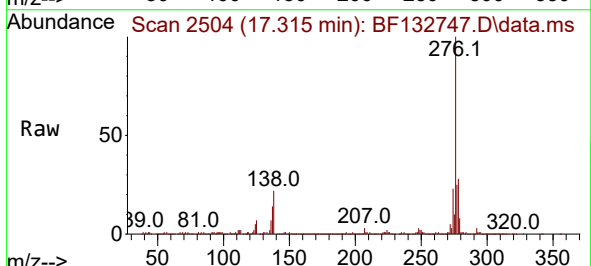
Manual Integrations
APPROVED

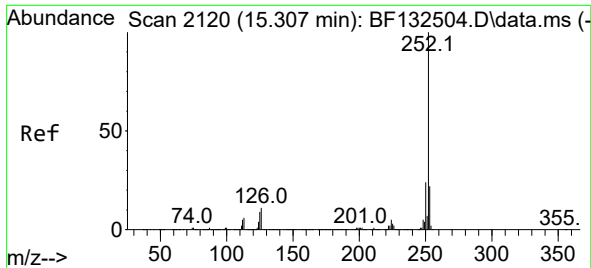
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 11.953 ng
RT: 17.315 min Scan# 2504
Delta R.T. -0.012 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

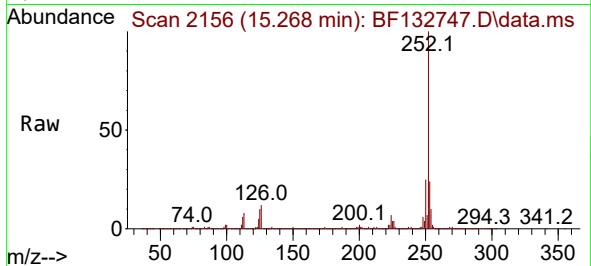
Tgt Ion:276 Resp: 396929
Ion Ratio Lower Upper
276 100
138 21.9 19.0 28.4
277 25.4 20.0 30.0





#88
Benzo(b)fluoranthene
Concen: 37.033 ng m
RT: 15.268 min Scan# 2156
Delta R.T. 0.000 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

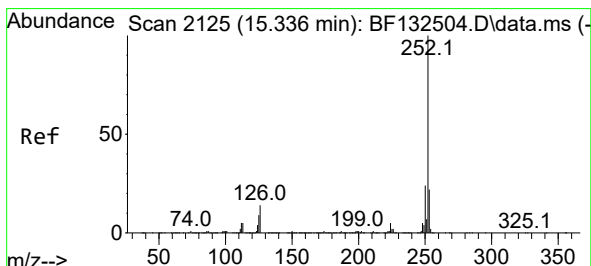
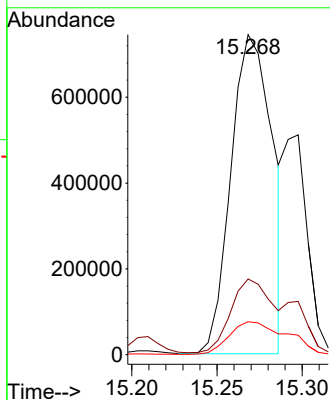
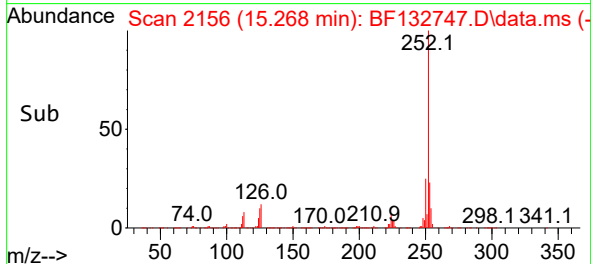
Instrument :
BNA_F
ClientSampleId :
TP-4



Tgt Ion:252 Resp: 125775
Ion Ratio Lower Upper
252 100
253 23.7 17.4 26.0
125 10.3 7.0 10.6

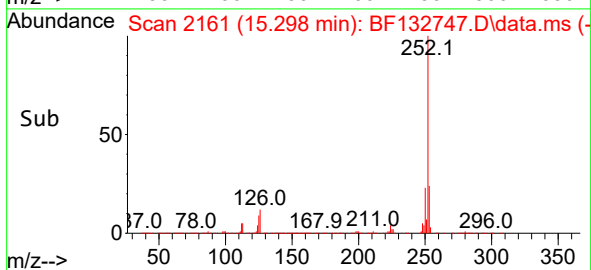
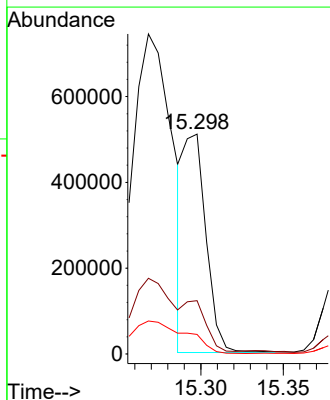
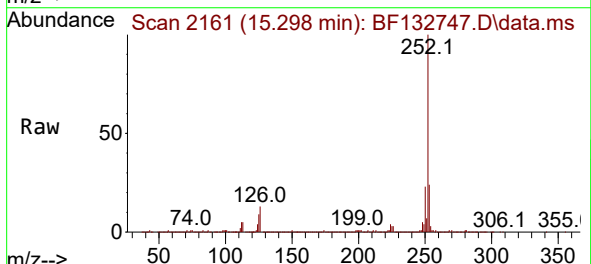
Manual Integrations
APPROVED

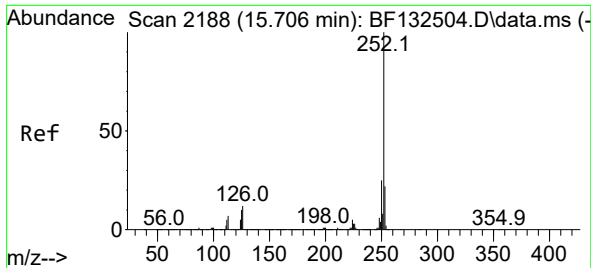
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023



#89
Benzo(k)fluoranthene
Concen: 14.398 ng m
RT: 15.298 min Scan# 2161
Delta R.T. -0.006 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

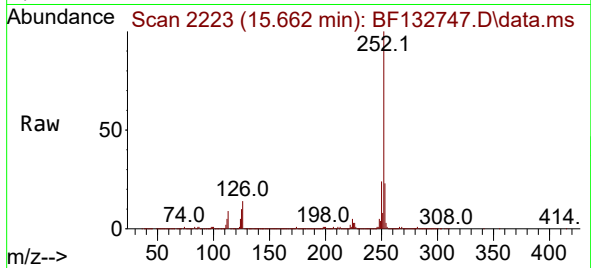
Tgt Ion:252 Resp: 478564
Ion Ratio Lower Upper
252 100
253 24.2 17.5 26.3
125 8.9 7.2 10.8





#90
Benzo(a)pyrene
Concen: 28.889 ng
RT: 15.662 min Scan# 2188
Delta R.T. 0.000 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

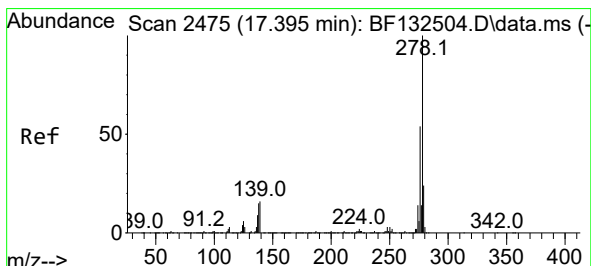
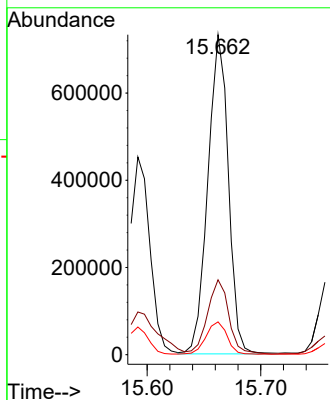
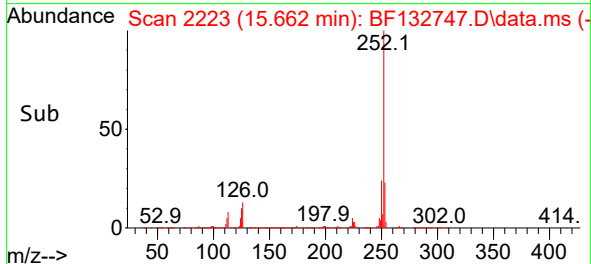
Instrument :
BNA_F
ClientSampleId :
TP-4



Tgt Ion:252 Resp: 918269
Ion Ratio Lower Upper
252 100
253 23.4 17.2 25.8
125 10.3 8.0 12.0

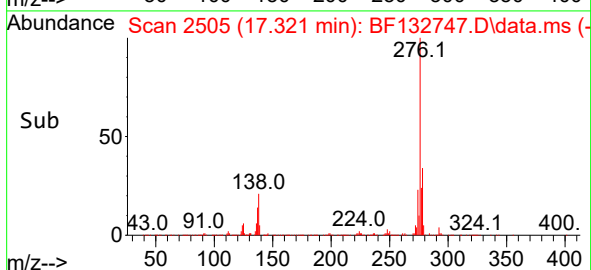
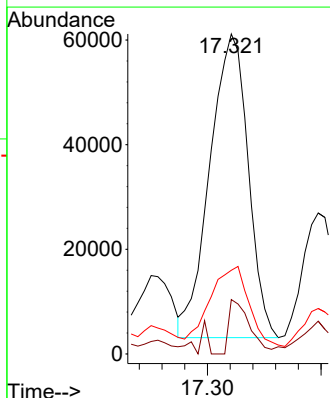
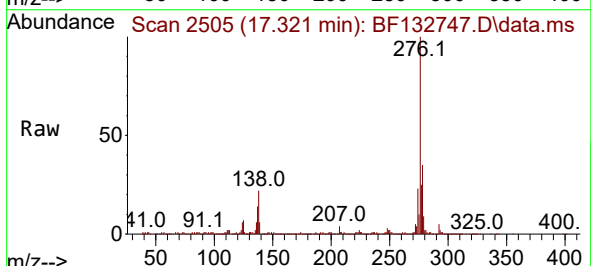
Manual Integrations
APPROVED

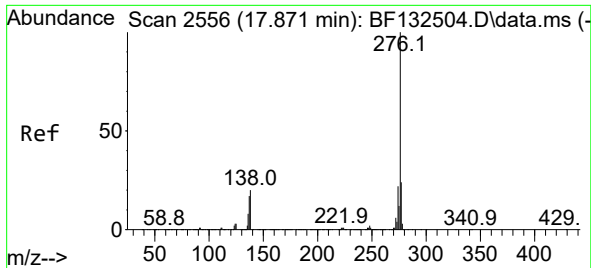
Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023



#91
Dibenzo(a,h)anthracene
Concen: 5.016 ng
RT: 17.321 min Scan# 2505
Delta R.T. -0.024 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

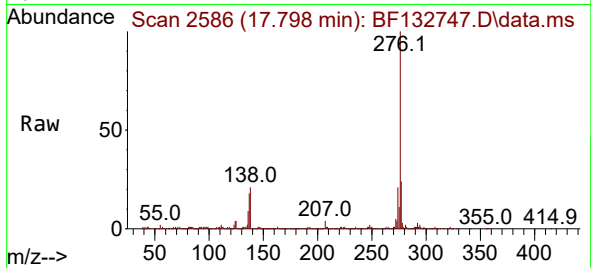
Tgt Ion:278 Resp: 135711
Ion Ratio Lower Upper
278 100
139 17.0 13.0 19.4
279 26.2 19.0 28.4





#92
Benzo(g,h,i)perylene
Concen: 11.613 ng
RT: 17.798 min Scan# 2586
Delta R.T. -0.018 min
Lab File: BF132747.D
Acq: 10 Mar 2023 18:11

Instrument :
BNA_F
ClientSampleId :
TP-4



Tgt Ion:276 Resp: 316368
Ion Ratio Lower Upper
276 100
277 23.8 18.9 28.3
138 20.6 16.2 24.4

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 03/13/2023
Supervised By :Jagrut Upadhyay 03/13/2023

