

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101322\
 Data File : BF130660.D
 Acq On : 13 Oct 2022 22:17
 Operator : CG\JU
 Sample : N5118-03 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-4-101222

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 10/17/2022
 Supervised By :mohammad ahmed 10/18/2022

Quant Time: Oct 14 06:05:10 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101122.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 12 06:52:52 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.587	152	61963	20.000	ng	0.00
21) Naphthalene-d8	7.869	136	207988	20.000	ng	0.00
39) Acenaphthene-d10	9.616	164	107461	20.000	ng	0.00
64) Phenanthrene-d10	11.098	188	197630	20.000	ng	0.00
76) Chrysene-d12	13.739	240	134337	20.000	ng	0.01
86) Perylene-d12	15.116	264	107744	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.187	112	138834	40.388	ng	0.00
7) Phenol-d6	6.234	99	155007	35.865	ng	0.00
23) Nitrobenzene-d5	7.157	82	90378	23.722	ng	0.00
42) 2,4,6-Tribromophenol	10.404	330	45393	43.170	ng	0.00
45) 2-Fluorobiphenyl	8.945	172	172003	24.245	ng	0.00
79) Terphenyl-d14	12.692	244	210080	25.955	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.893	128	272288	25.291	ng	100
37) 2-Methylnaphthalene	8.581	142	120833	17.834	ng	99
38) 1-Methylnaphthalene	8.681	142	96032	14.601	ng	99
46) 1,1'-Biphenyl	9.045	154	26007	3.339	ng	99
49) Acenaphthylene	9.481	152	50846	5.331	ng	97
52) Acenaphthene	9.651	154	85719	14.835	ng	99
55) Dibenzofuran	9.822	168	145818	16.566	ng	98
58) Fluorene	10.163	166	221456	30.602	ng	99
71) Phenanthrene	11.133	178	1384744	126.468	ng	99
72) Anthracene	11.181	178	341397	31.925	ng	98
73) Carbazole	11.339	167	151299	15.856	ng	100
75) Fluoranthene	12.322	202	1296946	123.243	ng	97
78) Pyrene	12.551	202	1047756	90.407	ng	100
81) Benzo(a)anthracene	13.727	228	432136	47.740	ng	96
83) Chrysene	13.763	228	342529	39.911	ng	96
87) Indeno(1,2,3-cd)pyrene	16.415	276	126168m	15.645	ng	
88) Benzo(b)fluoranthene	14.739	252	343362m	50.327	ng	
89) Benzo(k)fluoranthene	14.757	252	116040m	16.704	ng	
90) Benzo(a)pyrene	15.063	252	253308	44.610	ng	95
91) Dibenzo(a,h)anthracene	16.415	278	37601	5.688	ng	# 74
92) Benzo(g,h,i)perylene	16.804	276	117072	19.016	ng	97

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

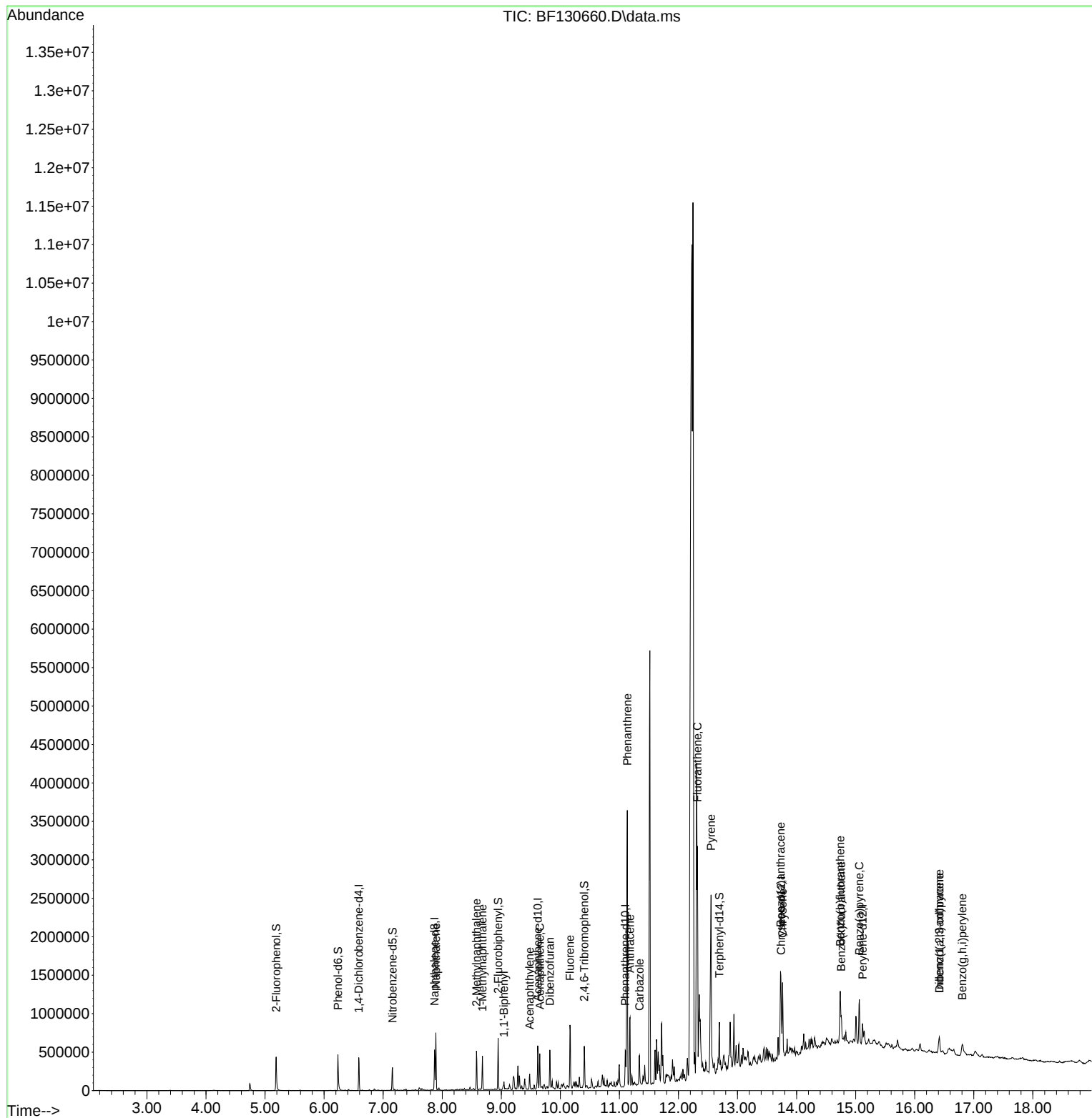
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101322\
Data File : BF130660.D
Acq On : 13 Oct 2022 22:17
Operator : CG\JU
Sample : N5118-03 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

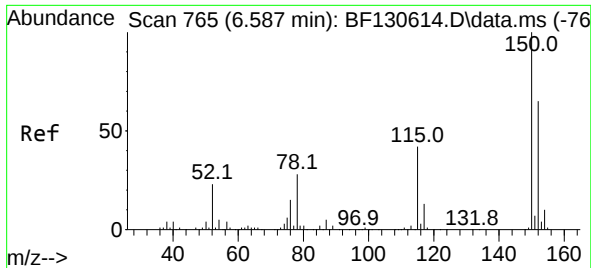
Instrument :
BNA_F
ClientSampleId :
SU-4-101222

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Supervised By : mohammad ahmed 10/18/2022

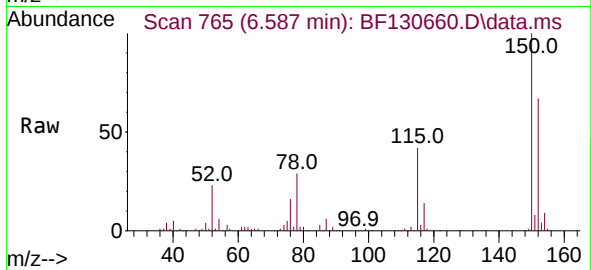
Quant Time: Oct 14 06:05:10 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101122.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 12 06:52:52 2022
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.587 min Scan# 765
Delta R.T. -0.000 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17

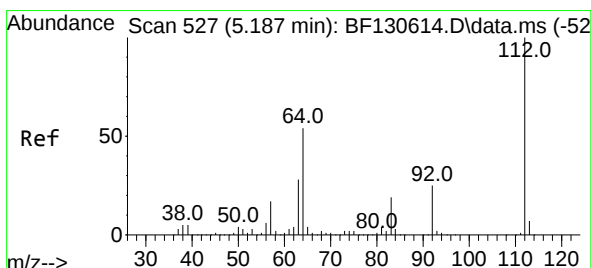
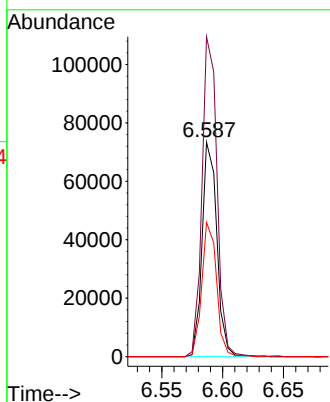
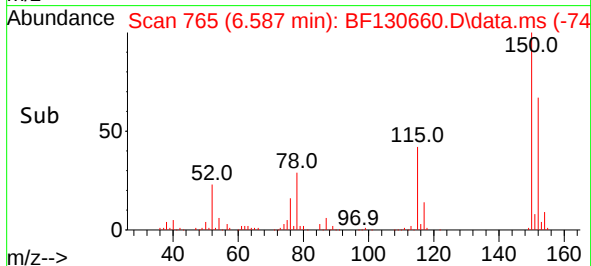
Instrument :
BNA_F
ClientSampleId :
SU-4-101222



Tgt Ion:152 Resp: 61963
Ion Ratio Lower Upper
152 100
150 149.2 123.8 185.6
115 62.6 52.2 78.4

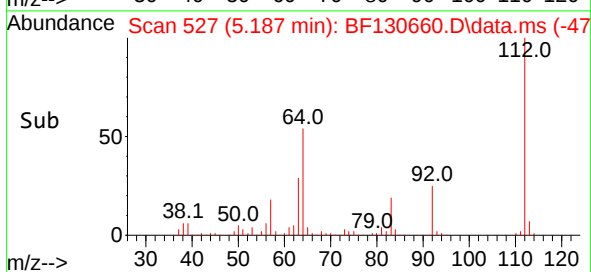
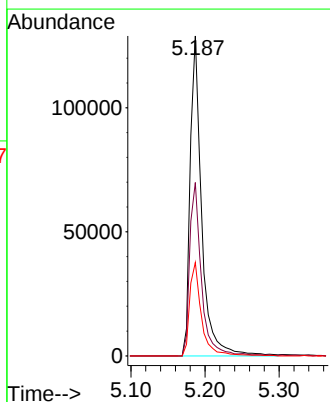
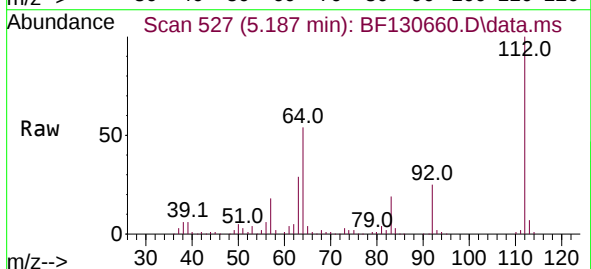
Manual Integrations
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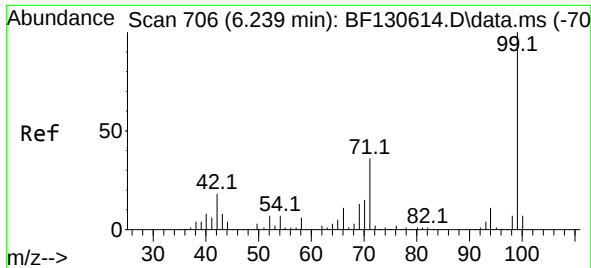
Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022



#5
2-Fluorophenol
Concen: 40.388 ng
RT: 5.187 min Scan# 527
Delta R.T. 0.000 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17

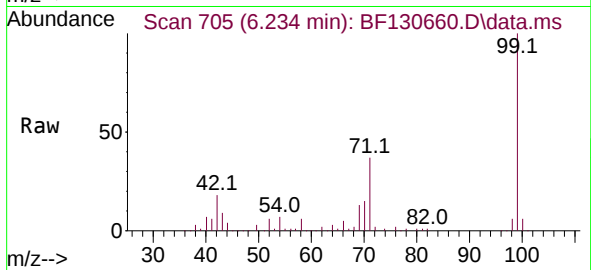
Tgt Ion:112 Resp: 138834
Ion Ratio Lower Upper
112 100
64 54.2 43.5 65.3
63 29.2 22.6 34.0





#7
Phenol-d6
Concen: 35.865 ng
RT: 6.234 min Scan# 706
Delta R.T. -0.006 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17

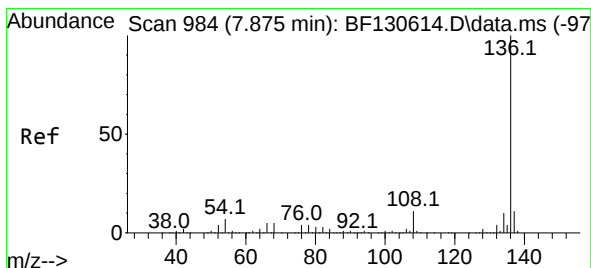
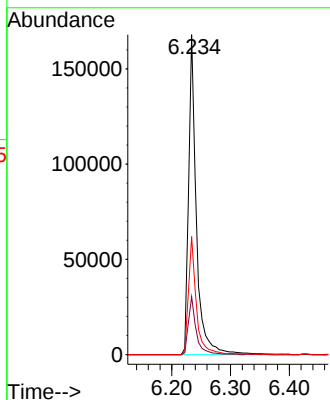
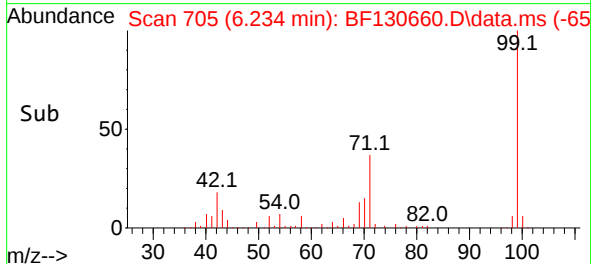
Instrument :
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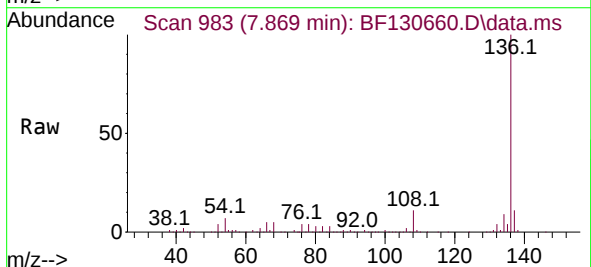
Tgt Ion: 99 Resp: 155007
Ion Ratio Lower Upper
99 100
42 18.1 14.0 21.0
71 36.9 28.8 43.2

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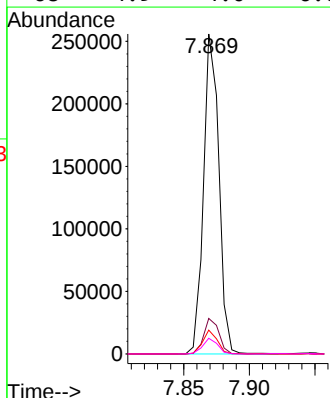
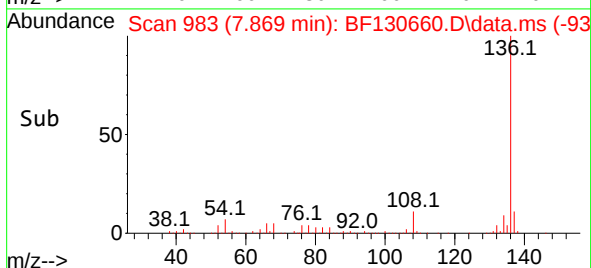
Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022

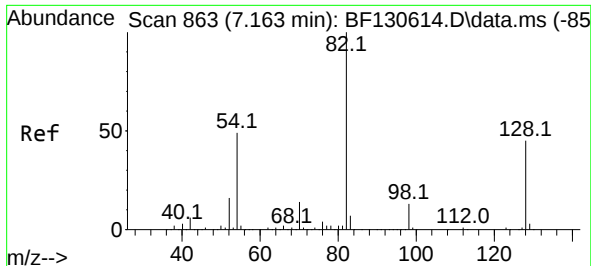


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.869 min Scan# 983
Delta R.T. -0.006 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17



Tgt Ion:136 Resp: 207988
Ion Ratio Lower Upper
136 100
137 11.1 8.4 12.6
54 7.4 5.5 8.3
68 4.9 4.0 6.0





#23

Nitrobenzene-d5

Concen: 23.722 ng

RT: 7.157 min Scan# 862

Delta R.T. -0.006 min

Lab File: BF130660.D

Acq: 13 Oct 2022 22:17

Instrument :

BNA_F

ClientSampleId :

SU-4-101222

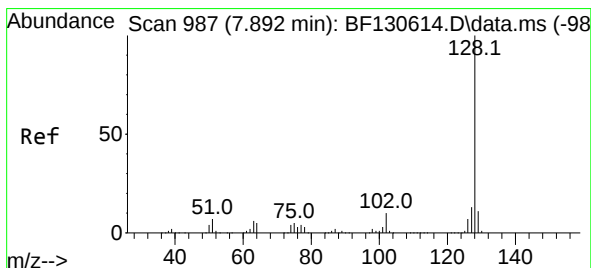
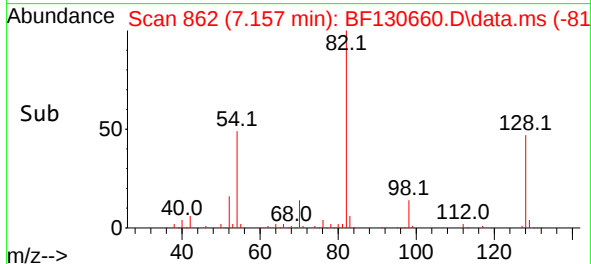
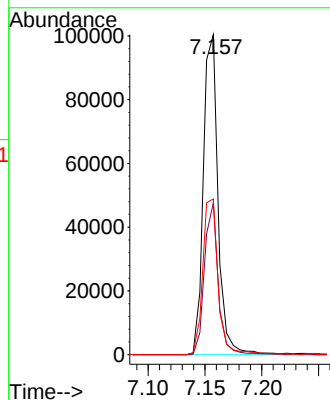
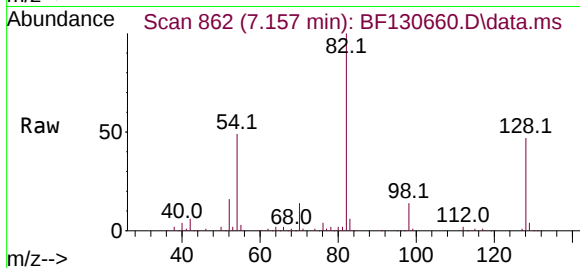
Tgt Ion: 82 Resp: 90378

Ion	Ratio	Lower	Upper
82	100		
128	47.4	35.8	53.6
54	48.6	39.3	58.9

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#31

Naphthalene

Concen: 25.291 ng

RT: 7.893 min Scan# 987

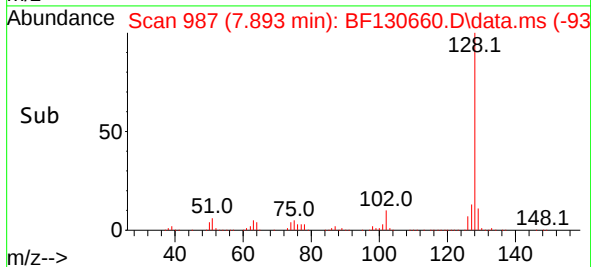
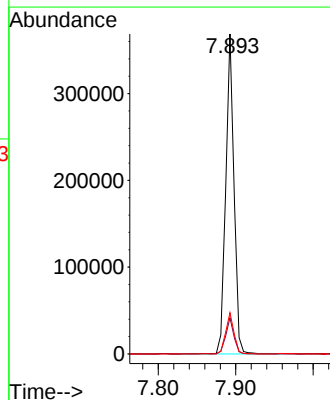
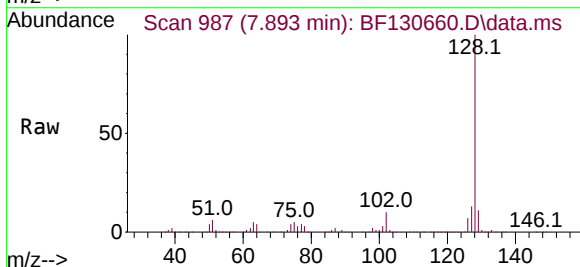
Delta R.T. 0.000 min

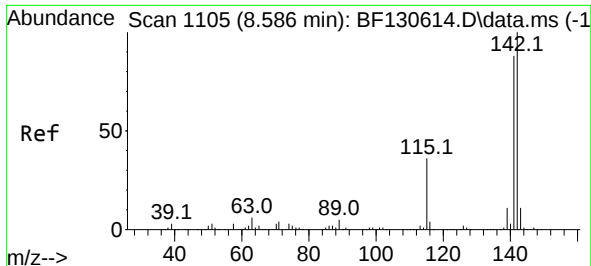
Lab File: BF130660.D

Acq: 13 Oct 2022 22:17

Tgt Ion:128 Resp: 272288

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.0	13.4
127	12.9	10.3	15.5





#37

2-Methylnaphthalene

Concen: 17.834 ng

RT: 8.581 min Scan# 1104

Delta R.T. -0.006 min

Lab File: BF130660.D

Acq: 13 Oct 2022 22:17

Instrument :

BNA_F

ClientSampleId :

SU-4-101222

Tgt Ion:142 Resp: 120833

Ion Ratio Lower Upper

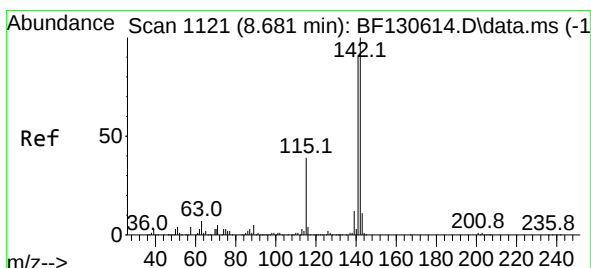
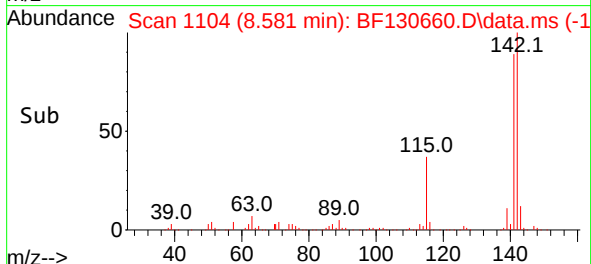
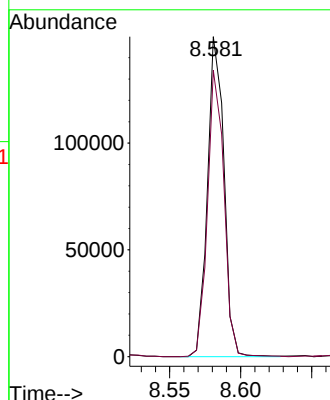
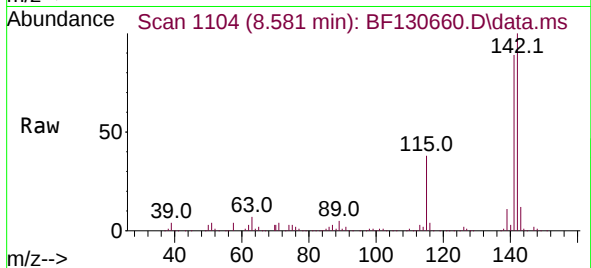
142 100

141 89.5 70.7 106.1

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Supervised By :mohammad ahmed 10/18/2022



#38

1-Methylnaphthalene

Concen: 14.601 ng

RT: 8.681 min Scan# 1121

Delta R.T. 0.000 min

Lab File: BF130660.D

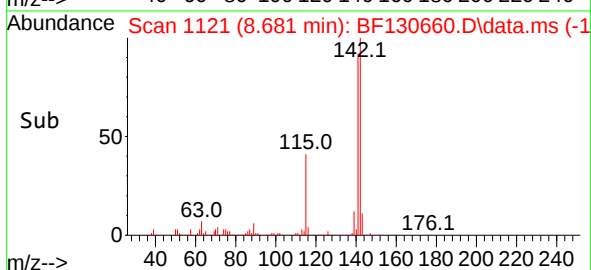
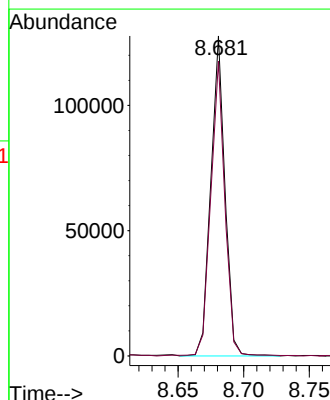
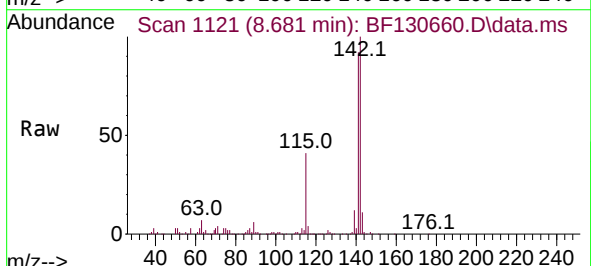
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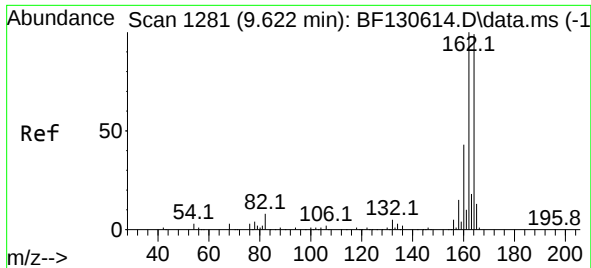
Tgt Ion:142 Resp: 96032

Ion Ratio Lower Upper

142 100

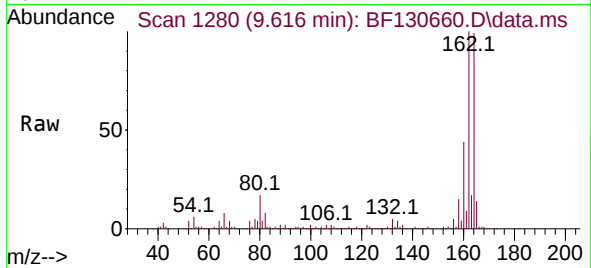
141 92.1 72.6 108.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.616 min Scan# 1280
Delta R.T. -0.006 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17

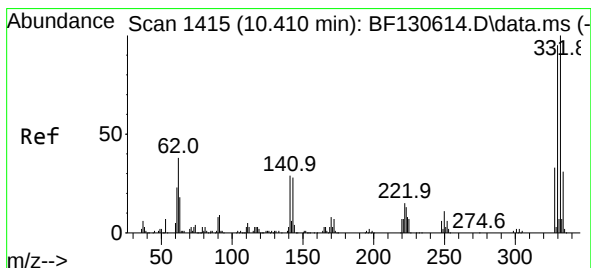
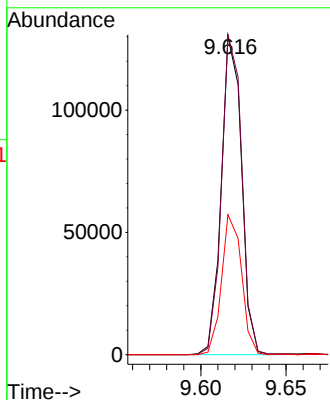
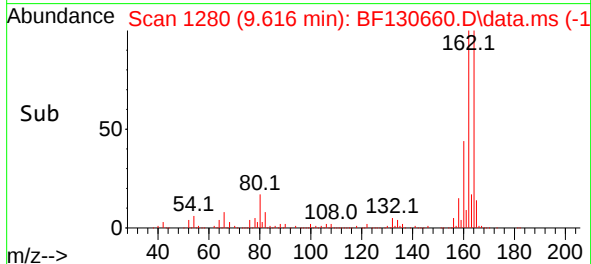
Instrument :
BNA_F
ClientSampleId :
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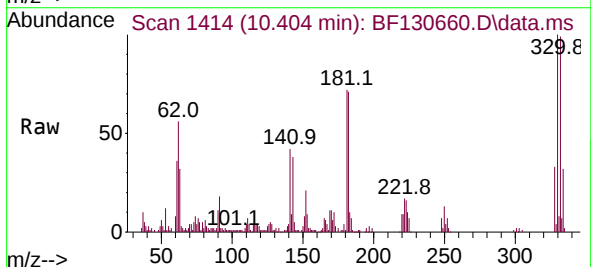
Tgt Ion:164 Resp: 107461
Ion Ratio Lower Upper
164 100
162 100.5 81.0 121.4
160 43.9 34.5 51.7

Manual Integrations
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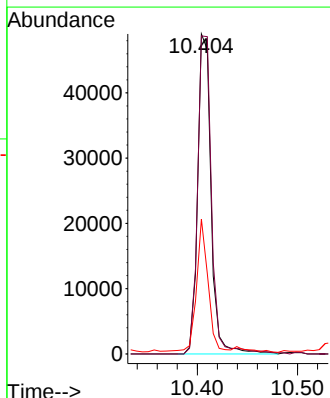
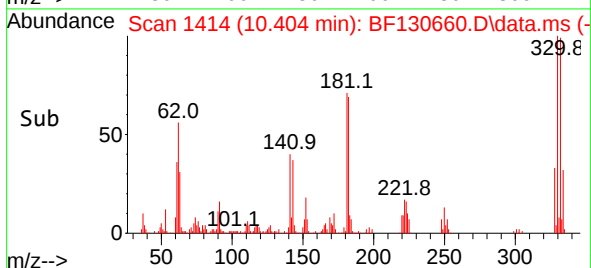
Reviewed By :Christian Giraldo 10/17/2022
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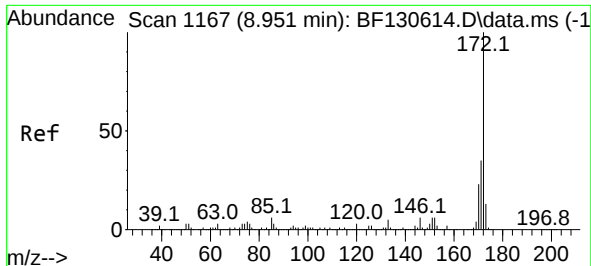


#42
2,4,6-Tribromophenol
Concen: 43.170 ng
RT: 10.404 min Scan# 1414
Delta R.T. -0.006 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17



Tgt Ion:330 Resp: 45393
Ion Ratio Lower Upper
330 100
332 103.8 84.2 126.4
141 35.3 26.8 40.2





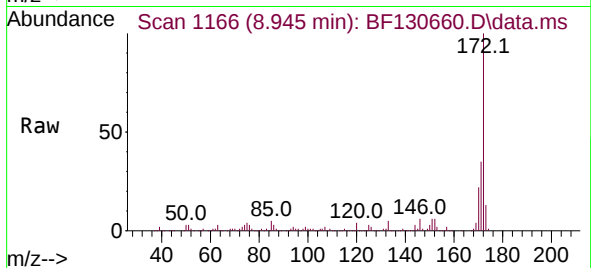
#45
2-Fluorobiphenyl
Concen: 24.245 ng
RT: 8.945 min Scan# 1166
Delta R.T. -0.006 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17

Instrument :

BNA_F

ClientSampleId :

SU-4-101222

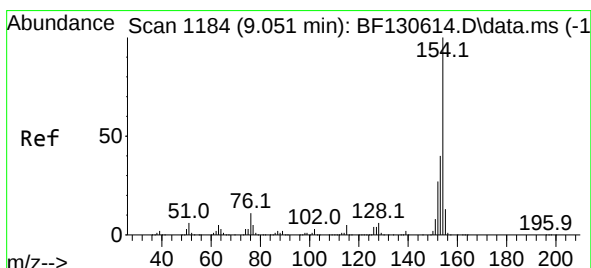
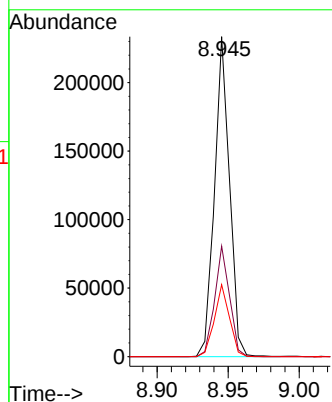
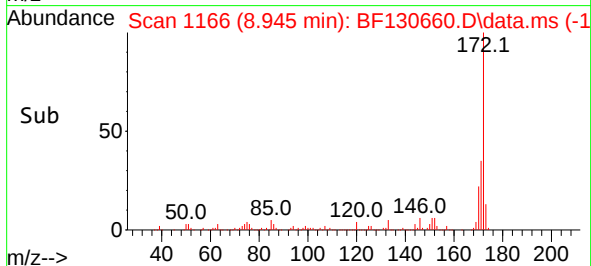


Tgt Ion:172 Resp: 172003
Ion Ratio Lower Upper
172 100
171 34.5 27.8 41.8
170 22.5 18.6 27.8

Manual Integrations

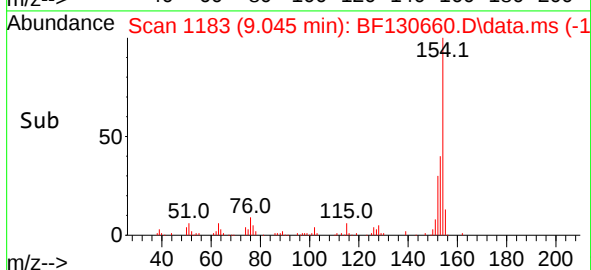
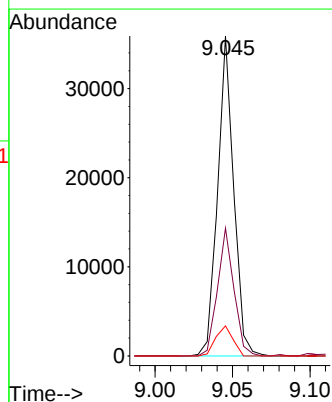
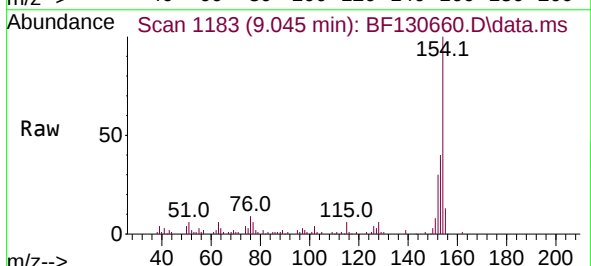
APPROVED

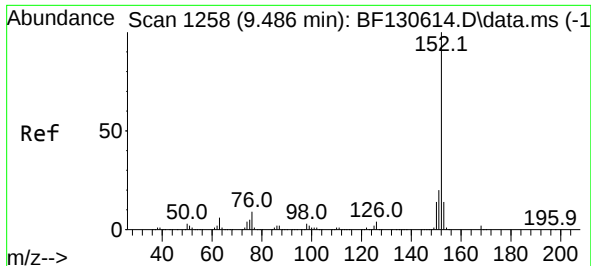
Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022



#46
1,1'-Biphenyl
Concen: 3.339 ng
RT: 9.045 min Scan# 1183
Delta R.T. -0.006 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17

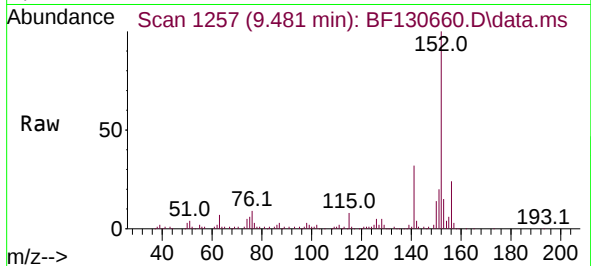
Tgt Ion:154 Resp: 26007
Ion Ratio Lower Upper
154 100
153 39.9 20.0 60.0
76 9.4 0.0 30.8





#49
Acenaphthylene
Concen: 5.331 ng
RT: 9.481 min Scan# 1257
Delta R.T. -0.005 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17

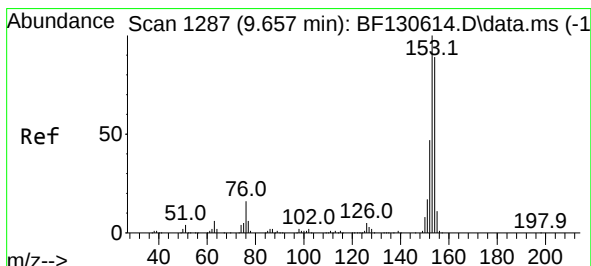
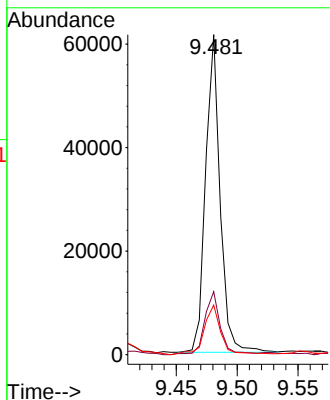
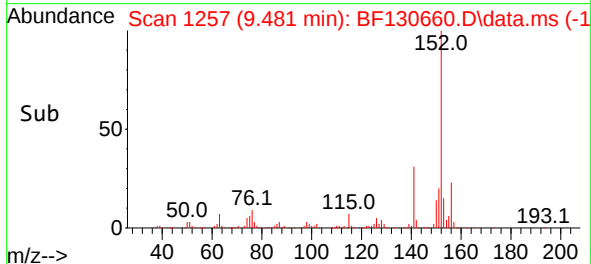
Instrument :
BNA_F
ClientSampleId :
SU-4-101222



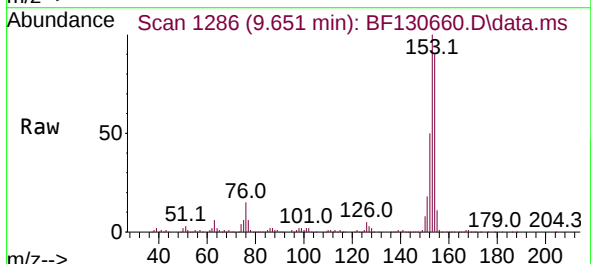
Tgt Ion:152 Resp: 50846
Ion Ratio Lower Upper
152 100
151 19.7 16.2 24.2
153 15.5 10.8 16.2

Manual Integrations
APPROVED

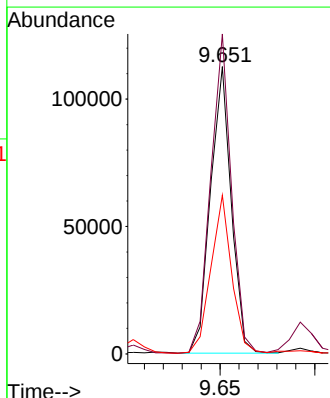
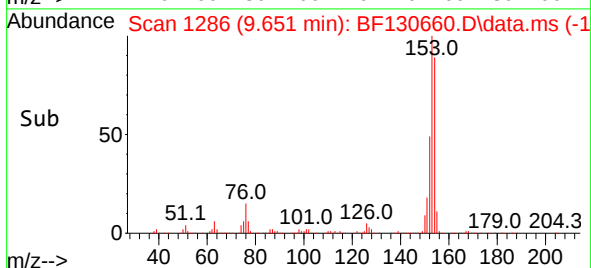
Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022

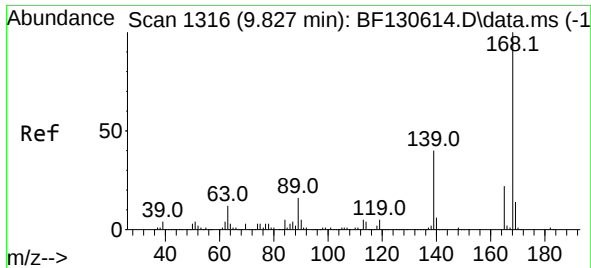


#52
Acenaphthene
Concen: 14.835 ng
RT: 9.651 min Scan# 1286
Delta R.T. -0.006 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17



Tgt Ion:154 Resp: 85719
Ion Ratio Lower Upper
154 100
153 111.4 89.6 134.4
152 55.2 42.4 63.6





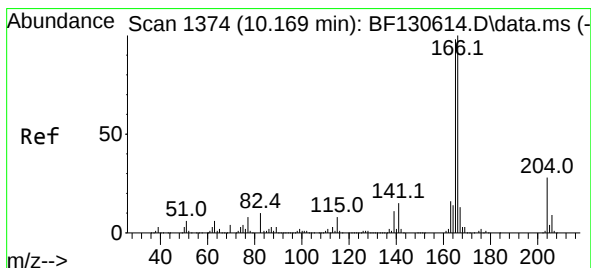
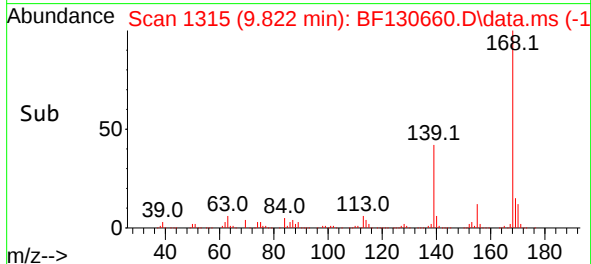
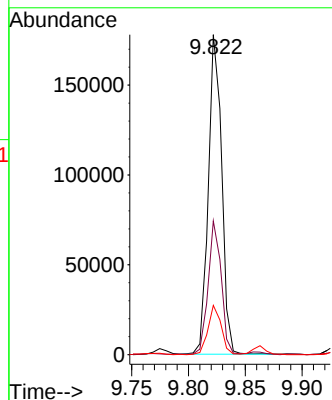
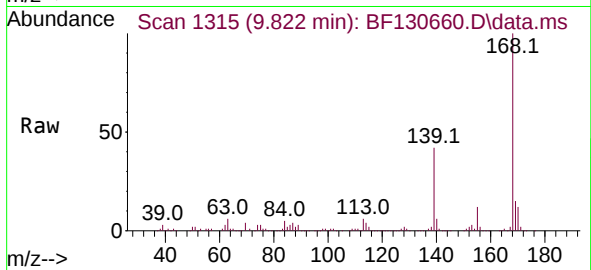
#55
Dibenzenofuran
Concen: 16.566 ng
RT: 9.822 min Scan# 1316
Delta R.T. -0.006 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17

Instrument :
BNA_F
ClientSampleId :
SU-4-101222

Tgt Ion:168 Resp: 145818
Ion Ratio Lower Upper
168 100
139 41.8 33.0 49.4
169 15.4 10.9 16.3

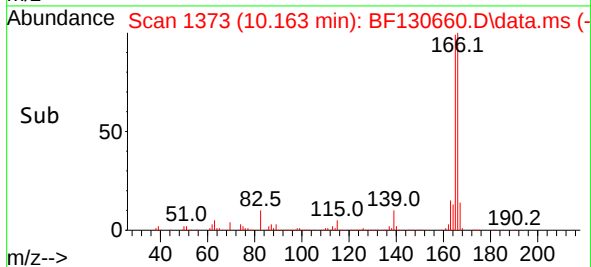
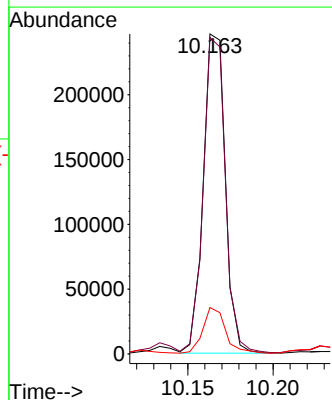
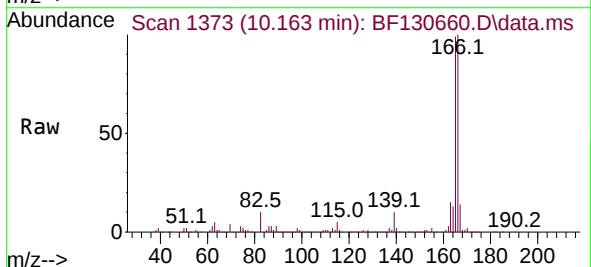
Manual Integrations
APPROVED

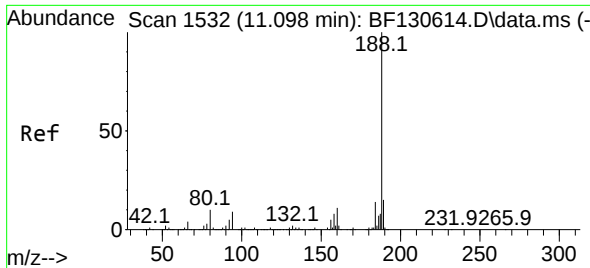
Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022



#58
Fluorene
Concen: 30.602 ng
RT: 10.163 min Scan# 1373
Delta R.T. -0.006 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17

Tgt Ion:166 Resp: 221456
Ion Ratio Lower Upper
166 100
165 98.9 78.2 117.4
167 14.5 10.8 16.2





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.098 min Scan# 1532
Delta R.T. 0.000 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17

Instrument :

BNA_F

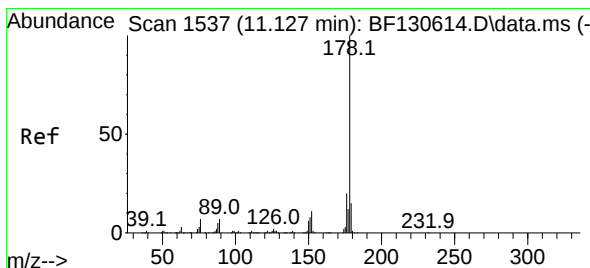
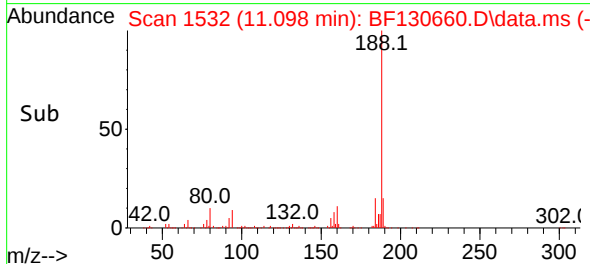
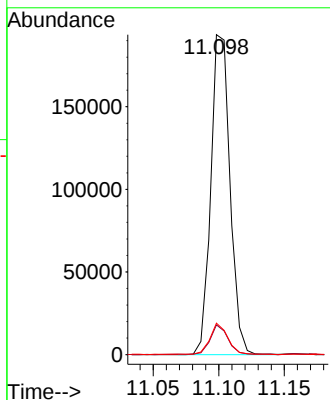
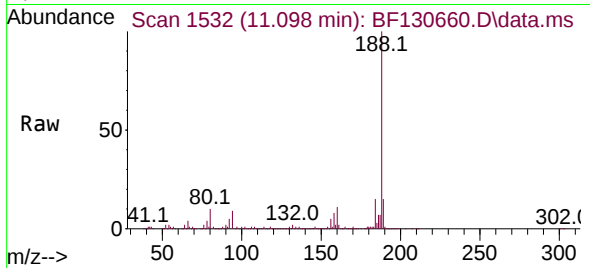
ClientSampleId :

SU-4-101222

Tgt Ion:188 Resp: 197630
Ion Ratio Lower Upper
188 100
94 9.3 7.4 11.2
80 9.8 8.0 12.0

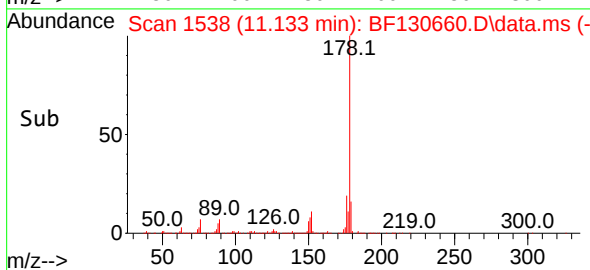
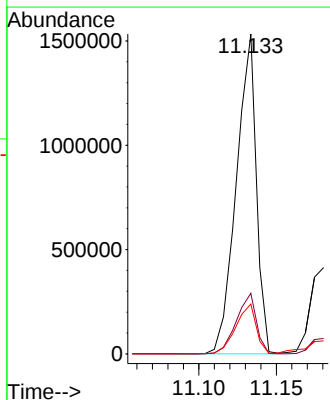
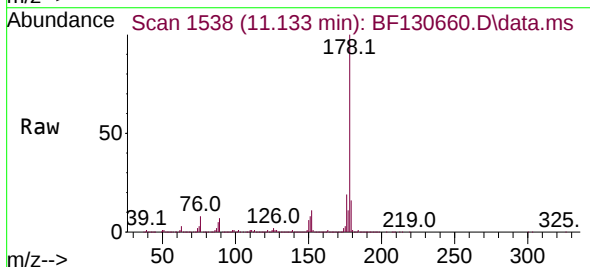
Manual Integrations
APPROVED

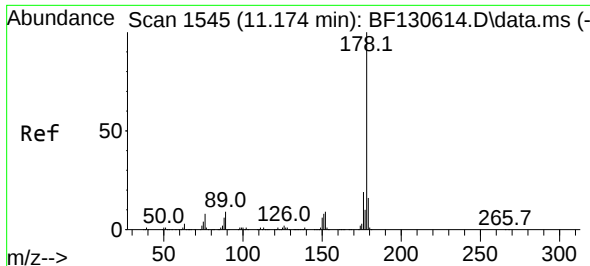
Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022



#71
Phenanthrene
Concen: 126.468 ng
RT: 11.133 min Scan# 1538
Delta R.T. 0.006 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17

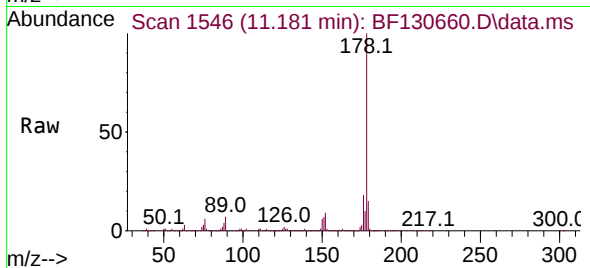
Tgt Ion:178 Resp: 1384744
Ion Ratio Lower Upper
178 100
176 18.9 15.7 23.5
179 15.6 12.2 18.4





#72
 Anthracene
 Concen: 31.925 ng
 RT: 11.181 min Scan# 1546
 Delta R.T. 0.006 min
 Lab File: BF130660.D
 Acq: 13 Oct 2022 22:17

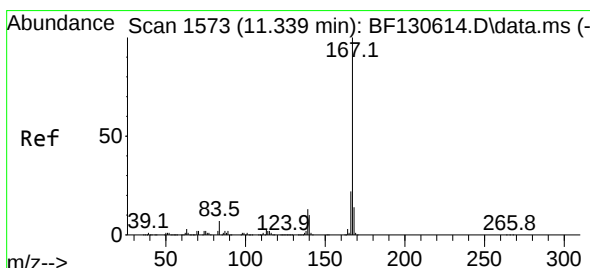
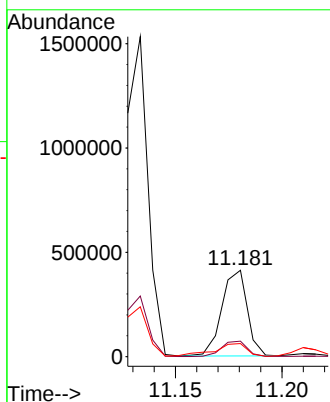
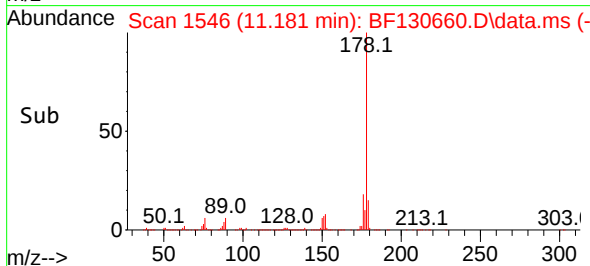
Instrument :
 BNA_F
 ClientSampleId :
 SU-4-101222



Tgt Ion:178 Resp: 341397
 Ion Ratio Lower Upper
 178 100
 176 17.9 15.0 22.4
 179 15.1 12.5 18.7

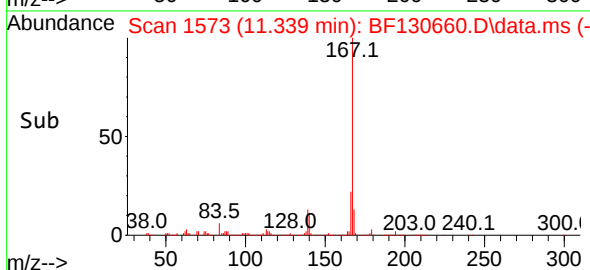
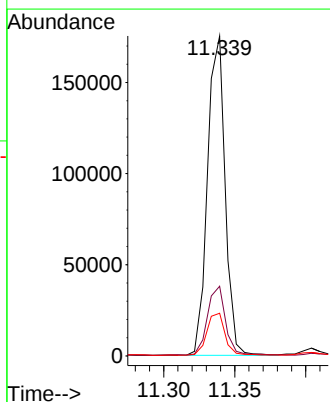
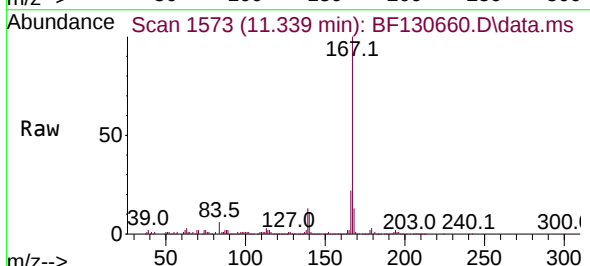
Manual Integrations
 APPROVED

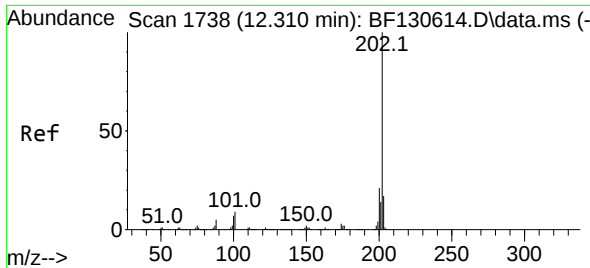
Reviewed By :Christian Giraldo 10/17/2022
 Supervised By :mohammad ahmed 10/18/2022



#73
 Carbazole
 Concen: 15.856 ng
 RT: 11.339 min Scan# 1573
 Delta R.T. 0.000 min
 Lab File: BF130660.D
 Acq: 13 Oct 2022 22:17

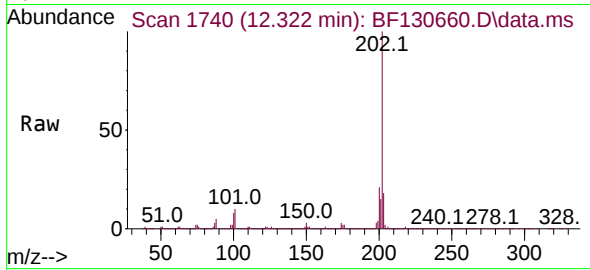
Tgt Ion:167 Resp: 151299
 Ion Ratio Lower Upper
 167 100
 166 21.8 17.3 25.9
 139 13.3 10.7 16.1





#75
Fluoranthene
Concen: 123.243 ng
RT: 12.322 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17

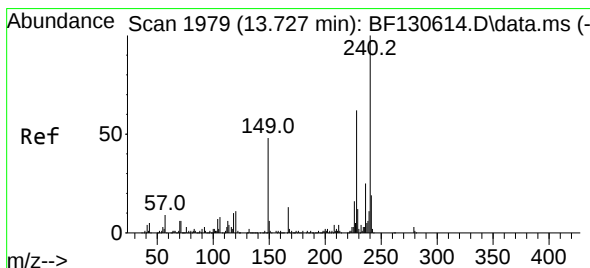
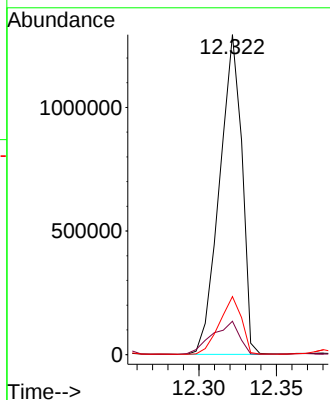
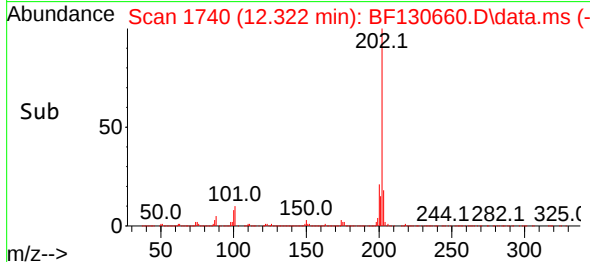
Instrument :
BNA_F
ClientSampleId :
SU-4-101222



Tgt Ion:202 Resp: 1296946
Ion Ratio Lower Upper
202 100
101 10.4 0.0 29.1
203 18.2 0.0 37.3

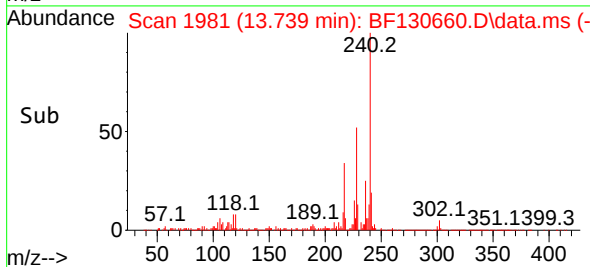
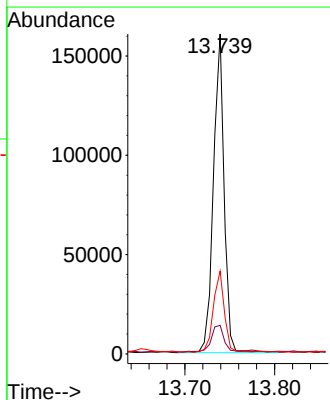
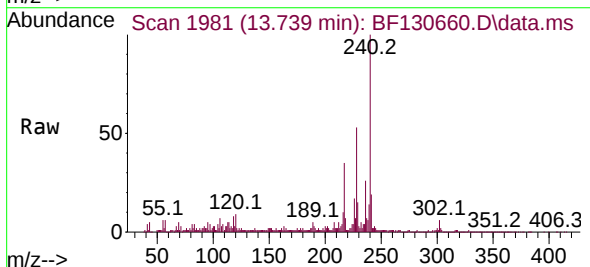
Manual Integrations
APPROVED

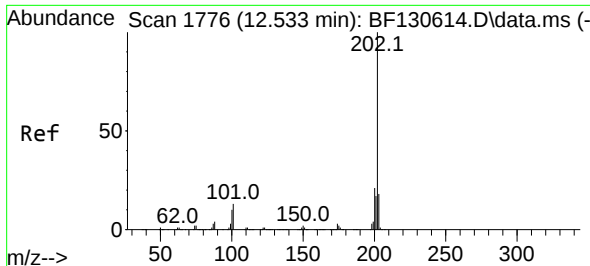
Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.739 min Scan# 1981
Delta R.T. 0.012 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17

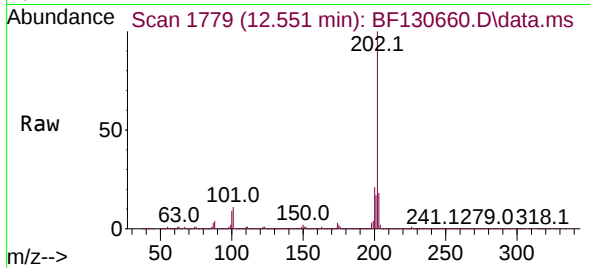
Tgt Ion:240 Resp: 134337
Ion Ratio Lower Upper
240 100
120 8.9 8.6 13.0
236 25.9 20.2 30.4





#78
 Pyrene
 Concen: 90.407 ng
 RT: 12.551 min Scan# 1779
 Delta R.T. 0.018 min
 Lab File: BF130660.D
 Acq: 13 Oct 2022 22:17

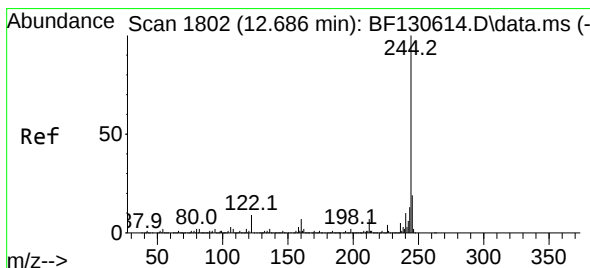
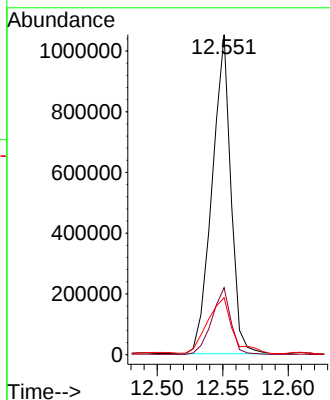
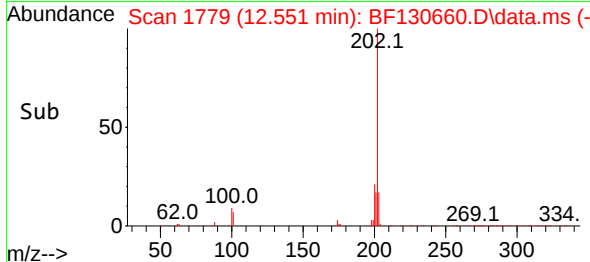
Instrument :
 BNA_F
 ClientSampleId :
 SU-4-101222



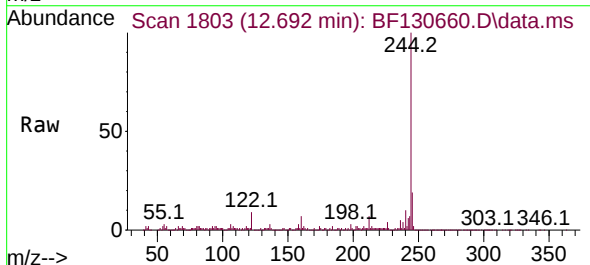
Tgt Ion:202 Resp: 1047756
 Ion Ratio Lower Upper
 202 100
 200 20.9 16.7 25.1
 203 17.8 14.0 21.0

Manual Integrations
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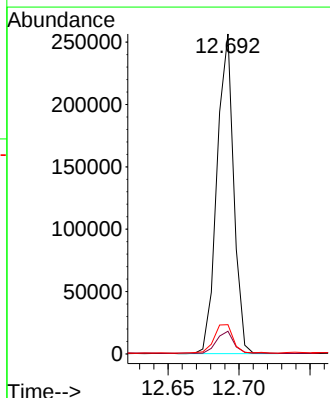
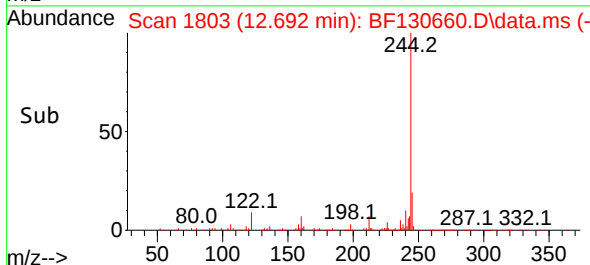
Reviewed By :Christian Giraldo 10/17/2022
 Supervised By :mohammad ahmed 10/18/2022

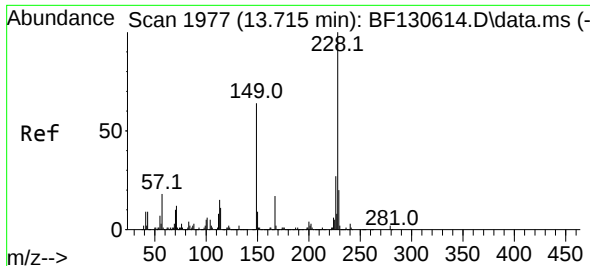


#79
 Terphenyl-d14
 Concen: 25.955 ng
 RT: 12.692 min Scan# 1803
 Delta R.T. 0.006 min
 Lab File: BF130660.D
 Acq: 13 Oct 2022 22:17



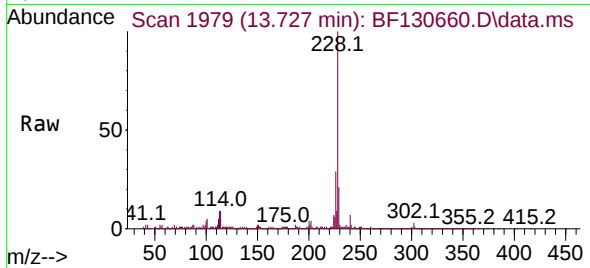
Tgt Ion:244 Resp: 210080
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.4 8.0
 122 9.1 7.5 11.3





#81
Benzo(a)anthracene
Concen: 47.740 ng
RT: 13.727 min Scan# 1979
Delta R.T. 0.012 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17

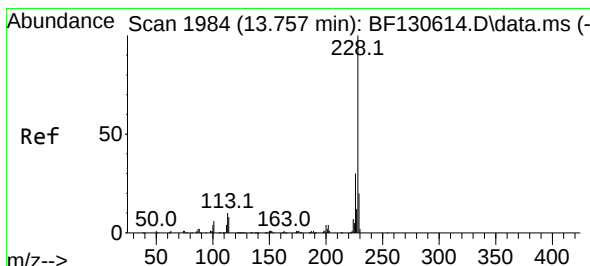
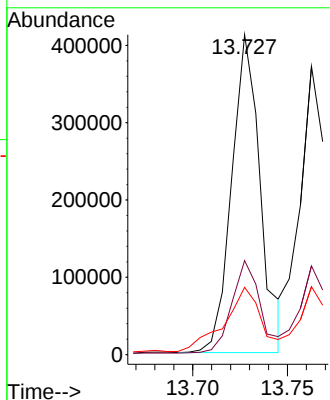
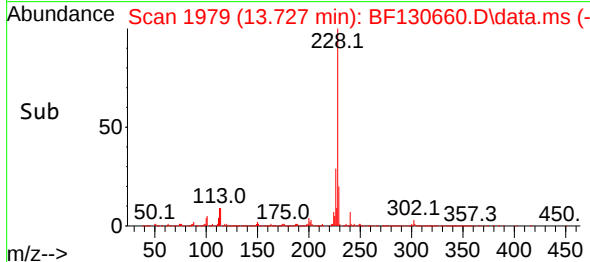
Instrument :
BNA_F
ClientSampleId :
SU-4-101222



Tgt Ion:228 Resp: 432136
Ion Ratio Lower Upper
228 100
226 29.4 21.4 32.2
229 21.0 15.8 23.8

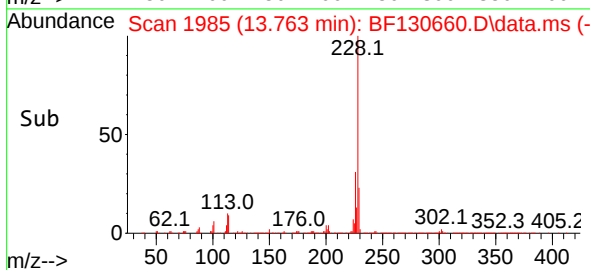
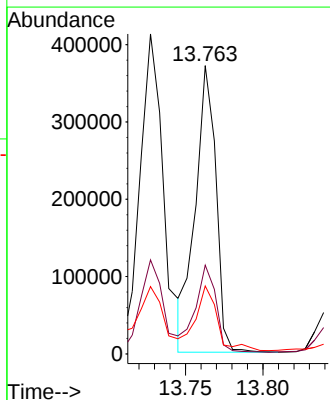
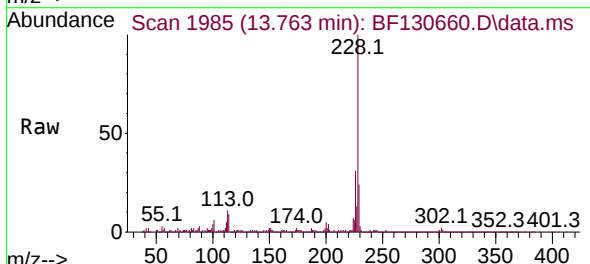
Manual Integrations
APPROVED

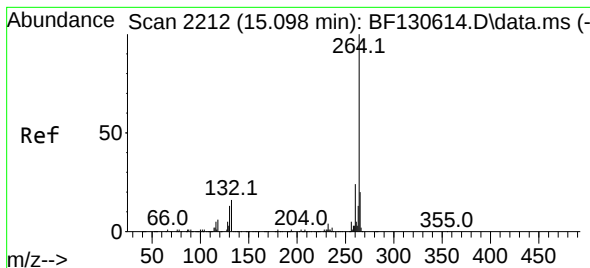
Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022



#83
Chrysene
Concen: 39.911 ng
RT: 13.763 min Scan# 1985
Delta R.T. 0.006 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17

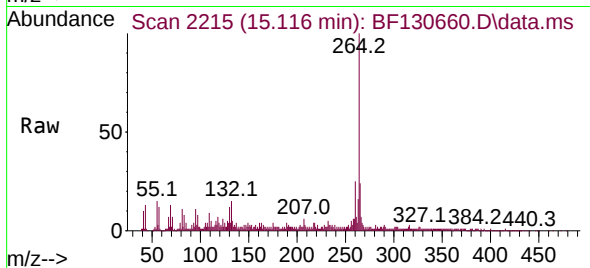
Tgt Ion:228 Resp: 342529
Ion Ratio Lower Upper
228 100
226 30.8 23.9 35.9
229 23.6 15.9 23.9





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.116 min Scan# 21
Delta R.T. 0.018 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17

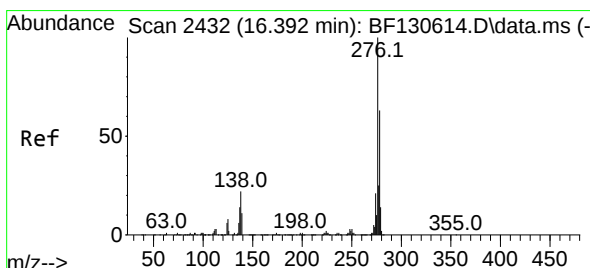
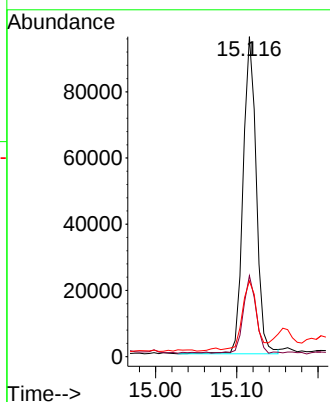
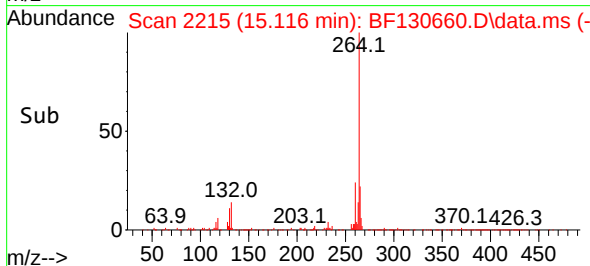
Instrument :
BNA_F
ClientSampleId :
SU-4-101222



Tgt Ion:264 Resp: 107744
Ion Ratio Lower Upper
264 100
260 25.3 19.1 28.7
265 23.6 16.4 24.6

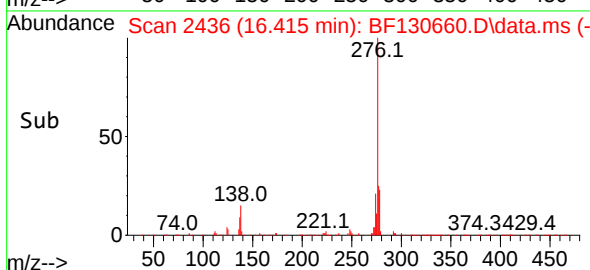
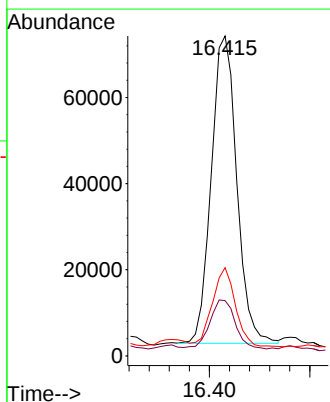
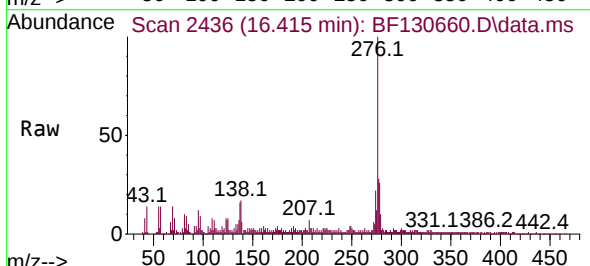
Manual Integrations
APPROVED

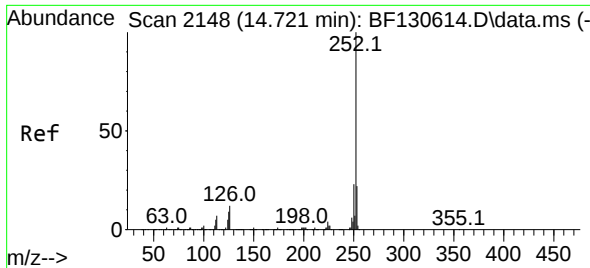
Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022



#87
Indeno(1,2,3-cd)pyrene
Concen: 15.645 ng m
RT: 16.415 min Scan# 2436
Delta R.T. 0.024 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17

Tgt Ion:276 Resp: 126168
Ion Ratio Lower Upper
276 100
138 1.2 18.0 27.0#
277 1.4 20.0 30.0#





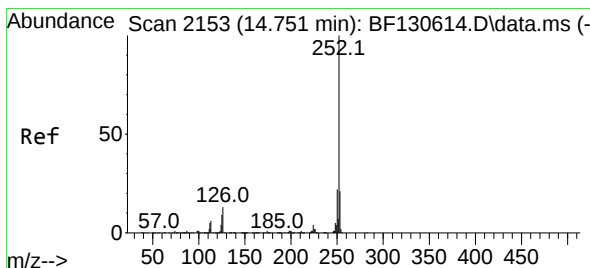
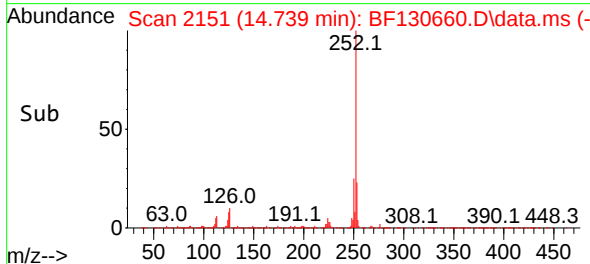
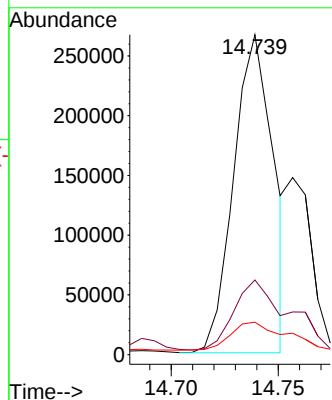
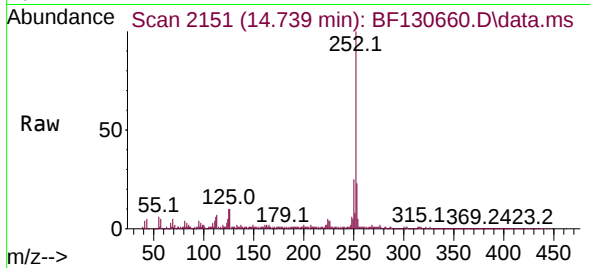
#88
Benzo(b)fluoranthene
Concen: 50.327 ng m
RT: 14.739 min Scan# 2148
Delta R.T. 0.018 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17

Instrument :
BNA_F
ClientSampleId :
SU-4-101222

Tgt Ion:252 Resp: 343362
Ion Ratio Lower Upper
252 100
253 23.3 17.4 26.2
125 10.1 7.4 11.0

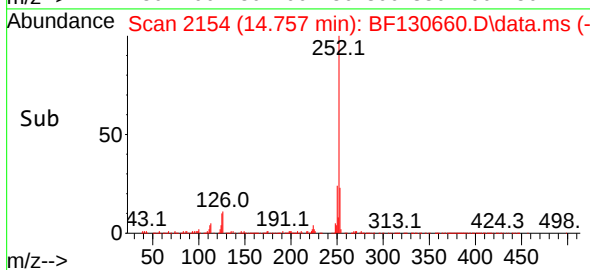
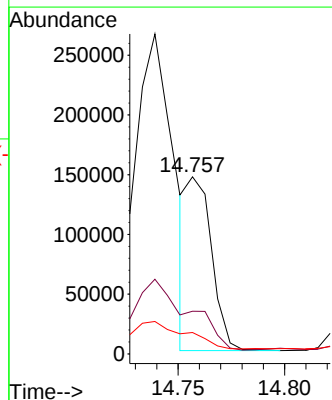
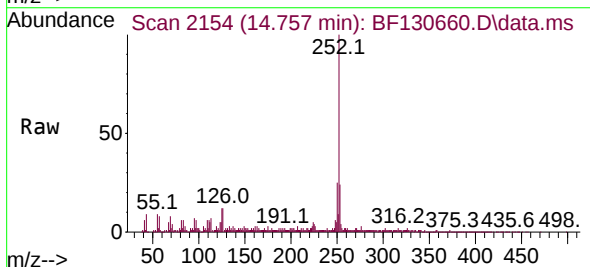
Manual Integrations
APPROVED

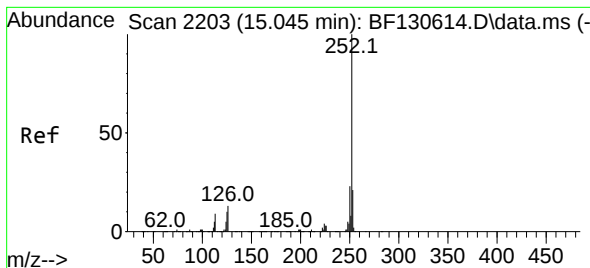
Reviewed By :Christian Giraldo 10/17/2022
Supervised By :mohammad ahmed 10/18/2022



#89
Benzo(k)fluoranthene
Concen: 16.704 ng m
RT: 14.757 min Scan# 2154
Delta R.T. 0.006 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17

Tgt Ion:252 Resp: 116040
Ion Ratio Lower Upper
252 100
253 24.1 17.0 25.4
125 12.1 7.2 10.8#





#90

Benzo(a)pyrene

Concen: 44.610 ng

RT: 15.063 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF130660.D

Acq: 13 Oct 2022 22:17

Instrument :

BNA_F

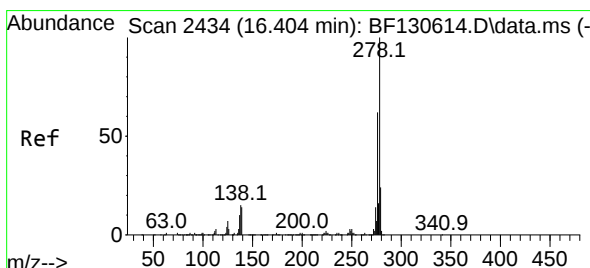
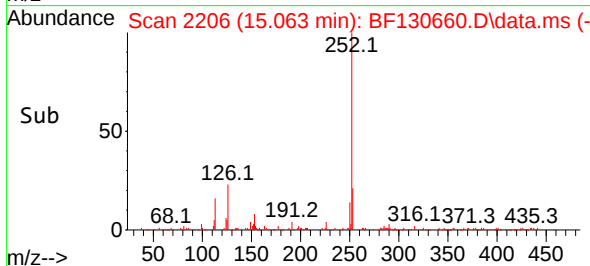
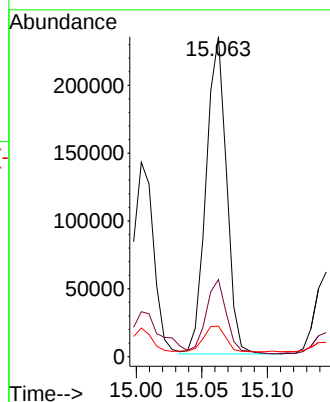
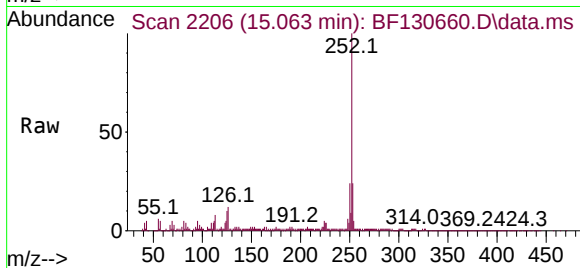
ClientSampleId :

SU-4-101222

Tgt Ion:252 Resp: 253308
 Ion Ratio Lower Upper
 252 100
 253 24.1 17.0 25.6
 125 9.5 8.4 12.6

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 10/17/2022
 Supervised By :mohammad ahmed 10/18/2022



#91

Dibenzo(a,h)anthracene

Concen: 5.688 ng

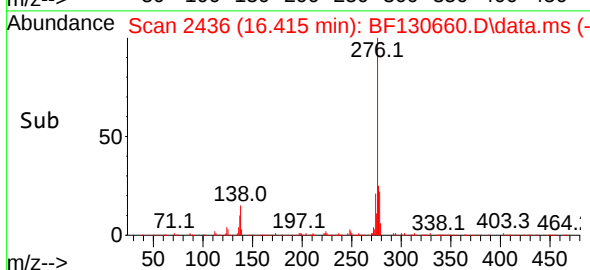
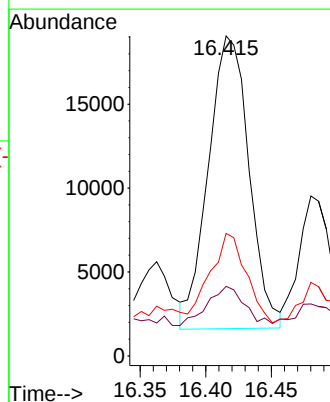
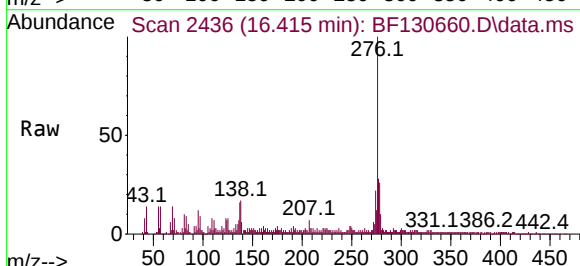
RT: 16.415 min Scan# 2436

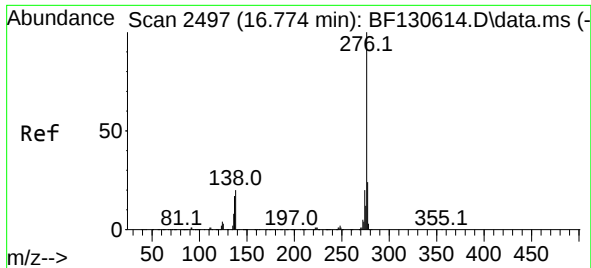
Delta R.T. 0.012 min

Lab File: BF130660.D

Acq: 13 Oct 2022 22:17

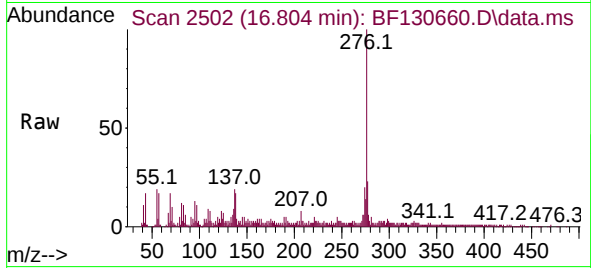
Tgt Ion:278 Resp: 37601
 Ion Ratio Lower Upper
 278 100
 139 21.7 11.1 16.7#
 279 38.3 19.0 28.4#





#92
Benzo(g,h,i)perylene
Concen: 19.016 ng
RT: 16.804 min Scan# 21
Delta R.T. 0.030 min
Lab File: BF130660.D
Acq: 13 Oct 2022 22:17

Instrument :
BNA_F
ClientSampleId :
SU-4-101222



Tgt Ion: 276 Resp: 117072
Ion Ratio Lower Upper
276 100
277 23.5 18.9 28.3
138 17.3 15.9 23.9

Manual Integrations
APPROVED

Reviewed By : Christian Giraldo 10/17/2022
Supervised By : mohammad ahmed 10/18/2022

