

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112822\
 Data File : BF131438.D
 Acq On : 28 Nov 2022 19:54
 Operator : CG\JU
 Sample : N5752-09
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-11S

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 11/29/2022
 Supervised By : mohammad ahmed 12/02/2022

Quant Time: Nov 29 00:58:31 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112122.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 29 00:18:36 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.951	152	115899	20.000	ng	0.00
21) Naphthalene-d8	8.239	136	262306	20.000	ng	0.00
39) Acenaphthene-d10	10.004	164	132845	20.000	ng	0.00
64) Phenanthrene-d10	11.504	188	276061	20.000	ng	0.00
76) Chrysene-d12	14.168	240	156097	20.000	ng	0.00
86) Perylene-d12	15.709	264	149588	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	554994	91.137	ng	0.00
7) Phenol-d6	6.569	99	783973	100.902	ng	0.00
23) Nitrobenzene-d5	7.516	82	443132	85.159	ng	-0.01
42) 2,4,6-Tribromophenol	10.798	330	109160	97.671	ng	0.00
45) 2-Fluorobiphenyl	9.322	172	631354	69.141	ng	0.00
79) Terphenyl-d14	13.098	244	531422	55.672	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.263	128	31978	2.288	ng	97
49) Acenaphthylene	9.863	152	54121	4.366	ng	97
52) Acenaphthene	10.039	154	21479	2.767	ng	92
55) Dibenzofuran	10.210	168	35420	3.172	ng	97
58) Fluorene	10.557	166	38450	4.411	ng	98
71) Phenanthrene	11.533	178	731329	49.019	ng	99
72) Anthracene	11.580	178	181079	12.350	ng	99
73) Carbazole	11.733	167	60438	4.832	ng	97
75) Fluoranthene	12.733	202	824074	52.419	ng	98
78) Pyrene	12.963	202	774940	56.268	ng	99
81) Benzo(a)anthracene	14.157	228	462289	43.206	ng	94
83) Chrysene	14.192	228	363723	34.649	ng	98
87) Indeno(1,2,3-cd)pyrene	17.280	276	186563m	18.569	ng	
88) Benzo(b)fluoranthene	15.251	252	498504m	50.164	ng	
89) Benzo(k)fluoranthene	15.274	252	157518m	15.424	ng	
90) Benzo(a)pyrene	15.645	252	366861	44.992	ng	100
91) Dibenzo(a,h)anthracene	17.292	278	46143m	5.563	ng	
92) Benzo(g,h,i)perylene	17.751	276	167702	20.257	ng	98

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

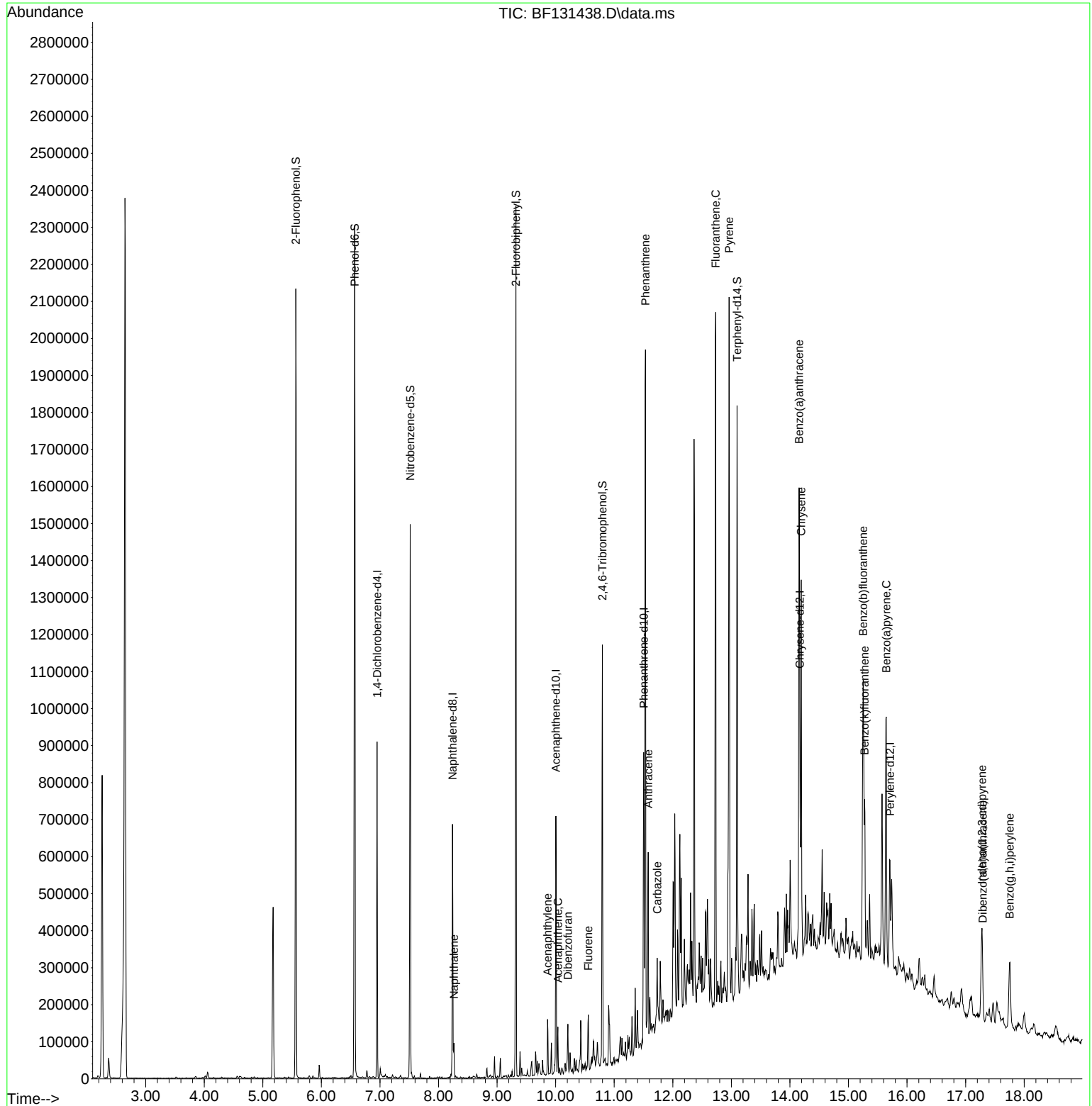
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112822\
Data File : BF131438.D
Acq On : 28 Nov 2022 19:54
Operator : CG\JU
Sample : N5752-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

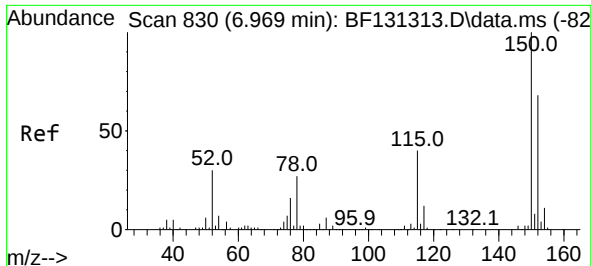
Instrument :
BNA_F
ClientSampleId :
B-11S

Manual Integrations
APPROVED

Reviewed By : Christian Giraldo 11/29/2022
Supervised By : mohammad ahmed 12/02/2022

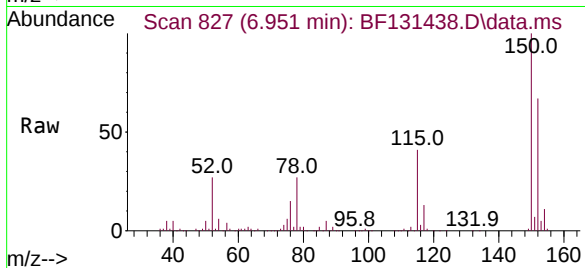
Quant Time: Nov 29 00:58:31 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112122.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 29 00:18:36 2022
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.951 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF131438.D
Acq: 28 Nov 2022 19:54

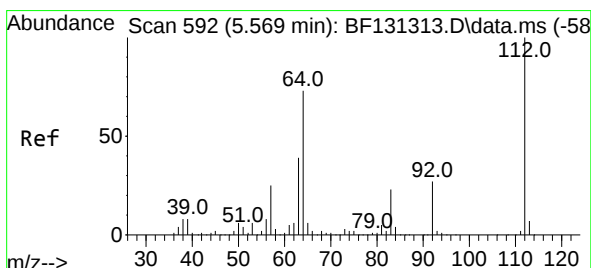
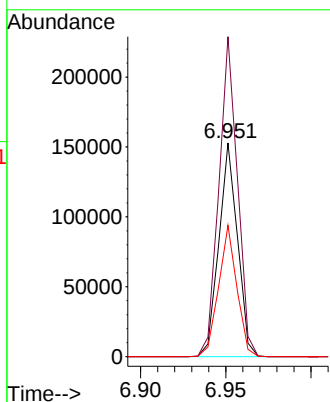
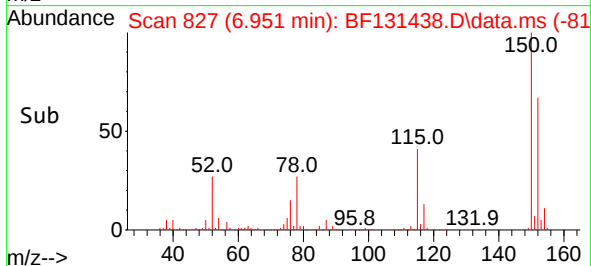
Instrument :
BNA_F
ClientSampleId :
B-11S



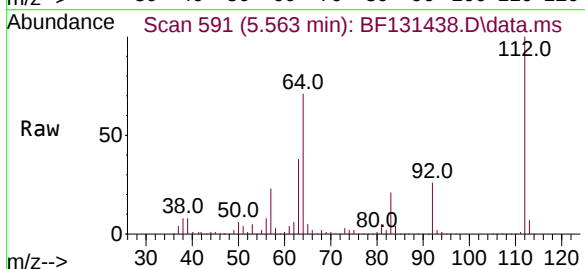
Tgt Ion:152 Resp: 115899
Ion Ratio Lower Upper
152 100
150 149.7 117.8 176.8
115 61.4 47.1 70.7

Manual Integrations
APPROVED

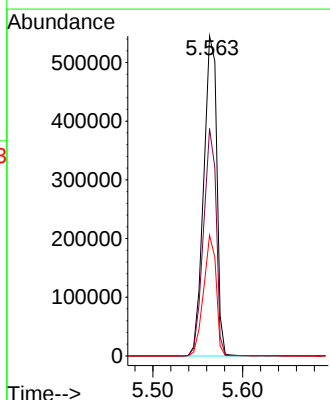
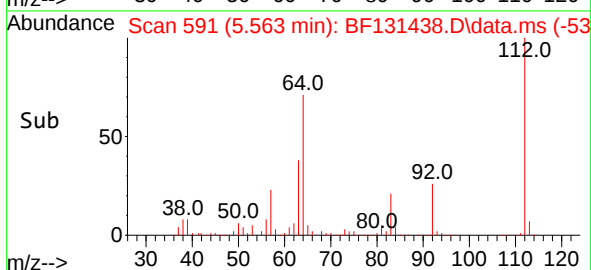
Reviewed By :Christian Giraldo 11/29/2022
Supervised By :mohammad ahmed 12/02/2022

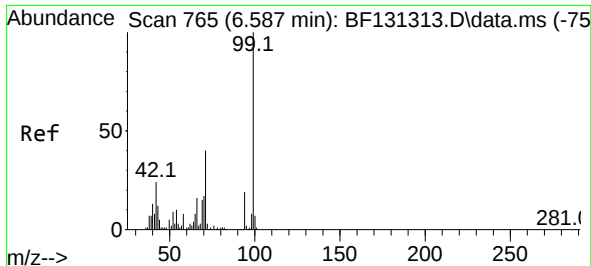


#5
2-Fluorophenol
Concen: 91.137 ng
RT: 5.563 min Scan# 591
Delta R.T. 0.006 min
Lab File: BF131438.D
Acq: 28 Nov 2022 19:54



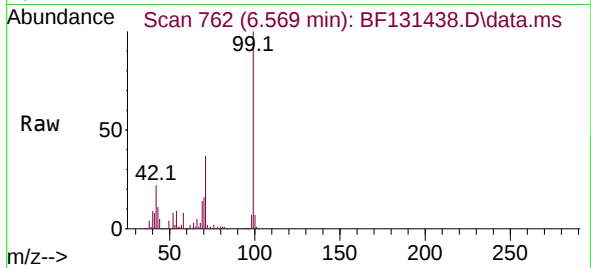
Tgt Ion:112 Resp: 554994
Ion Ratio Lower Upper
112 100
64 71.1 58.6 88.0
63 37.7 31.4 47.0





#7
Phenol-d6
Concen: 100.902 ng
RT: 6.569 min Scan# 70
Delta R.T. -0.006 min
Lab File: BF131438.D
Acq: 28 Nov 2022 19:54

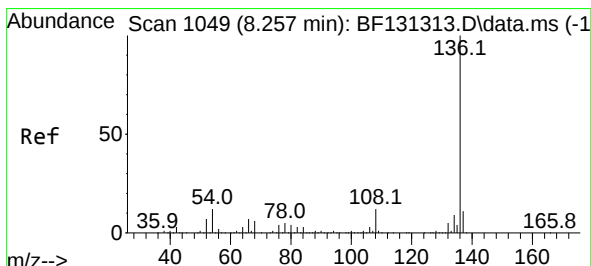
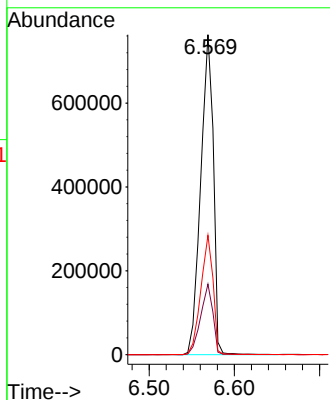
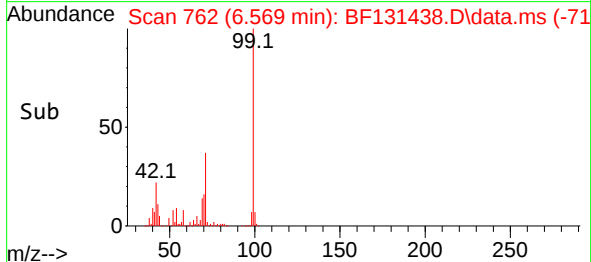
Instrument :
BNA_F
ClientSampleId :
B-11S



Tgt Ion: 99 Resp: 783973
Ion Ratio Lower Upper
99 100
42 22.0 19.4 29.2
71 37.3 32.3 48.5

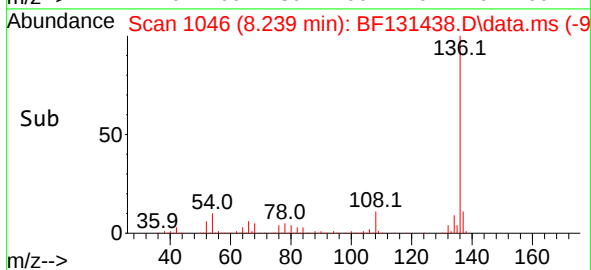
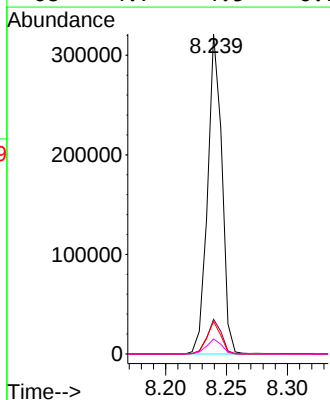
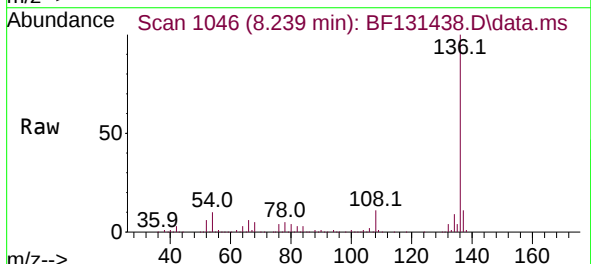
Manual Integrations
APPROVED

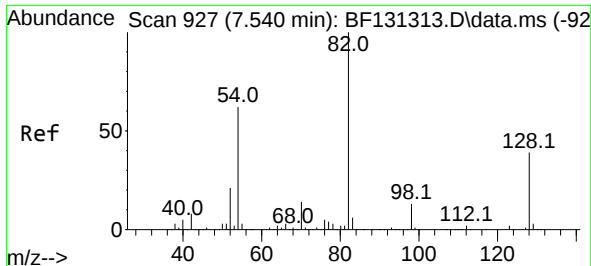
Reviewed By :Christian Giraldo 11/29/2022
Supervised By :mohammad ahmed 12/02/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.239 min Scan# 1046
Delta R.T. -0.006 min
Lab File: BF131438.D
Acq: 28 Nov 2022 19:54

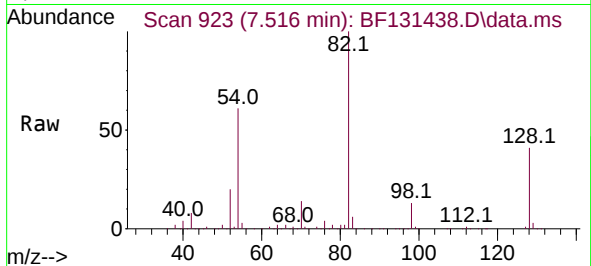
Tgt Ion:136 Resp: 262306
Ion Ratio Lower Upper
136 100
137 10.8 9.0 13.6
54 10.1 9.4 14.0
68 4.7 4.5 6.7





#23
Nitrobenzene-d5
Concen: 85.159 ng
RT: 7.516 min Scan# 91
Delta R.T. -0.012 min
Lab File: BF131438.D
Acq: 28 Nov 2022 19:54

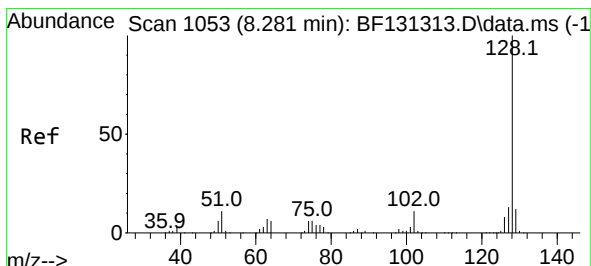
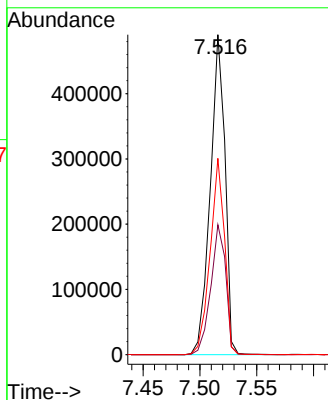
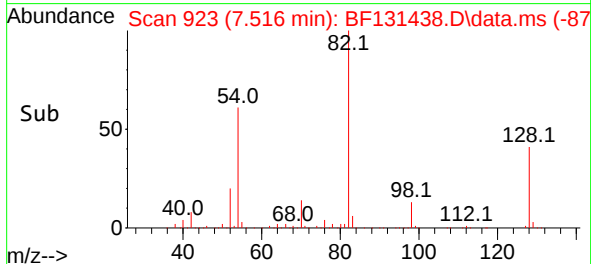
Instrument :
BNA_F
ClientSampleId :
B-11S



Tgt Ion: 82 Resp: 443132
Ion Ratio Lower Upper
82 100
128 40.6 31.4 47.0
54 61.3 49.8 74.6

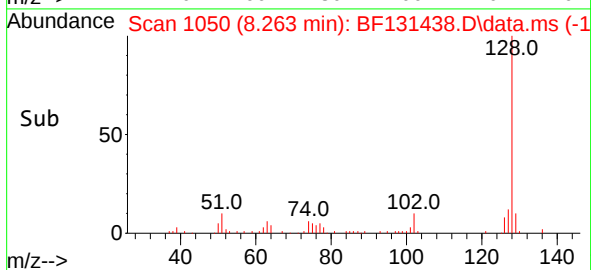
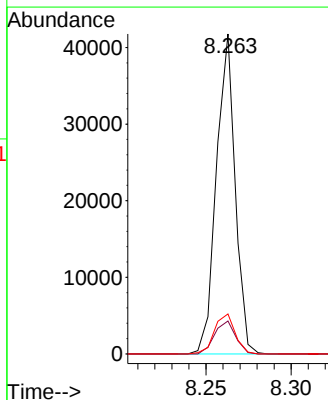
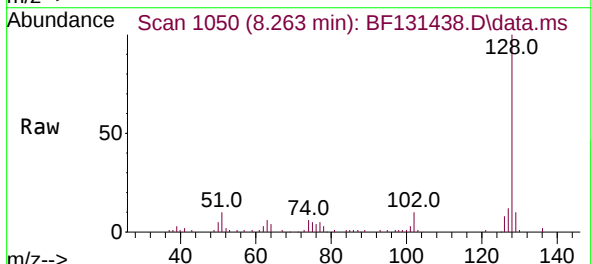
Manual Integrations
APPROVED

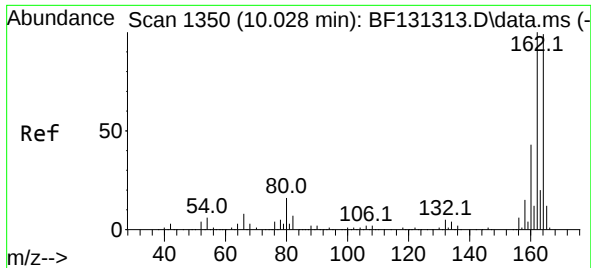
Reviewed By :Christian Giraldo 11/29/2022
Supervised By :mohammad ahmed 12/02/2022



#31
Naphthalene
Concen: 2.288 ng
RT: 8.263 min Scan# 1050
Delta R.T. -0.006 min
Lab File: BF131438.D
Acq: 28 Nov 2022 19:54

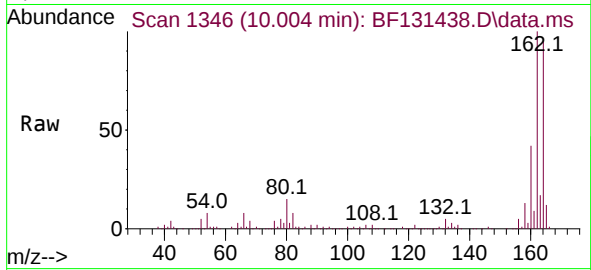
Tgt Ion:128 Resp: 31978
Ion Ratio Lower Upper
128 100
129 10.3 9.2 13.8
127 12.5 10.6 16.0





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.004 min Scan# 1346
Delta R.T. -0.006 min
Lab File: BF131438.D
Acq: 28 Nov 2022 19:54

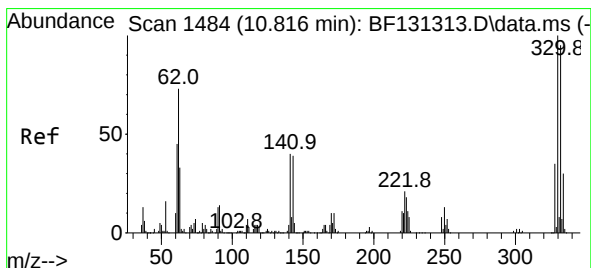
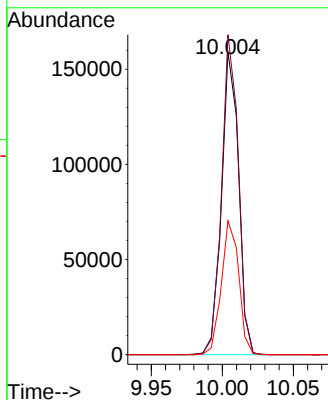
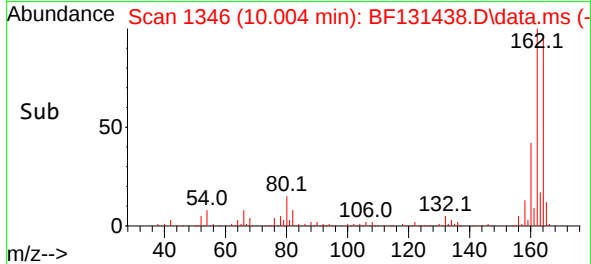
Instrument :
BNA_F
ClientSampleId :
B-11S



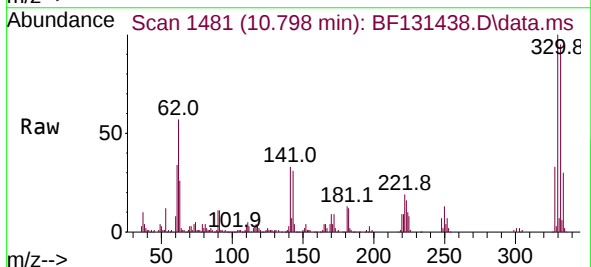
Tgt Ion:164 Resp: 132845
Ion Ratio Lower Upper
164 100
162 105.7 80.6 120.8
160 44.1 34.4 51.6

Manual Integrations
APPROVED

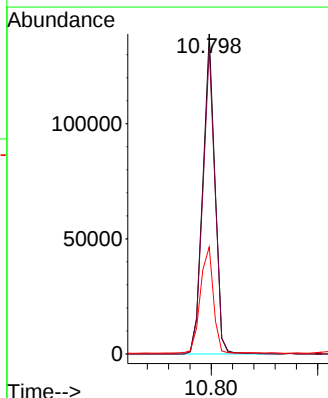
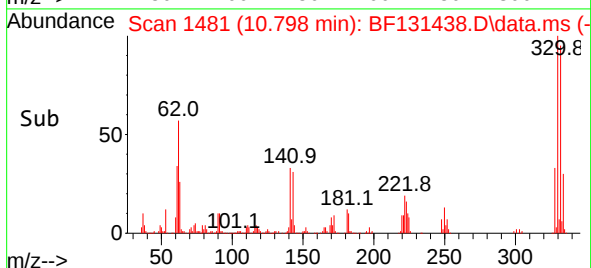
Reviewed By :Christian Giraldo 11/29/2022
Supervised By :mohammad ahmed 12/02/2022

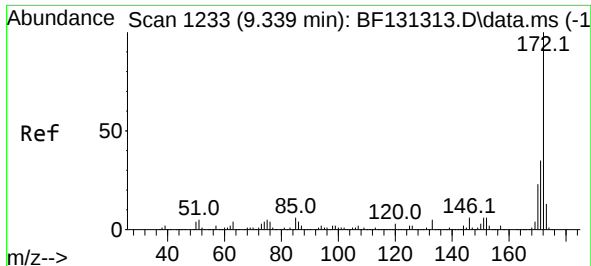


#42
2,4,6-Tribromophenol
Concen: 97.671 ng
RT: 10.798 min Scan# 1481
Delta R.T. -0.006 min
Lab File: BF131438.D
Acq: 28 Nov 2022 19:54



Tgt Ion:330 Resp: 109160
Ion Ratio Lower Upper
330 100
332 96.0 77.5 116.3
141 35.6 29.3 43.9





#45

2-Fluorobiphenyl

Concen: 69.141 ng

RT: 9.322 min Scan# 1230

Delta R.T. -0.006 min

Lab File: BF131438.D

Acq: 28 Nov 2022 19:54

Instrument :

BNA_F

ClientSampleId :

B-11S

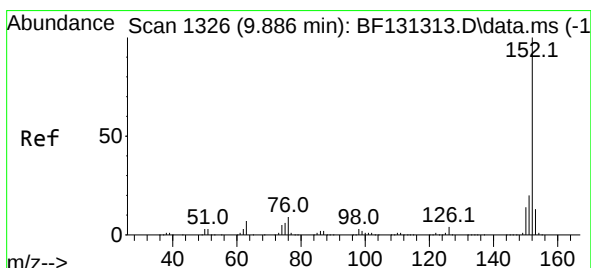
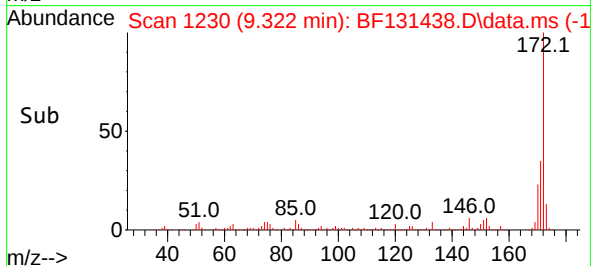
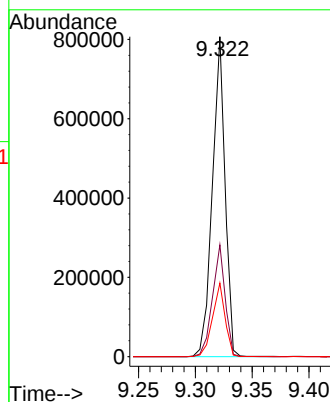
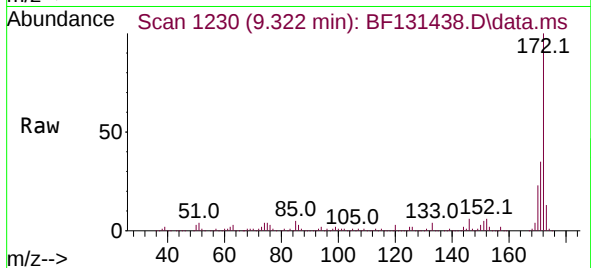
Tgt Ion:172 Resp: 631354

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.2	42.2
170	23.0	18.7	28.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 11/29/2022
Supervised By :mohammad ahmed 12/02/2022



#49

Acenaphthylene

Concen: 4.366 ng

RT: 9.863 min Scan# 1322

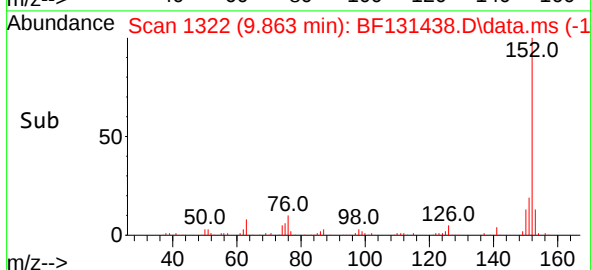
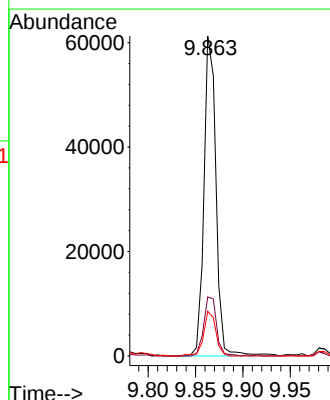
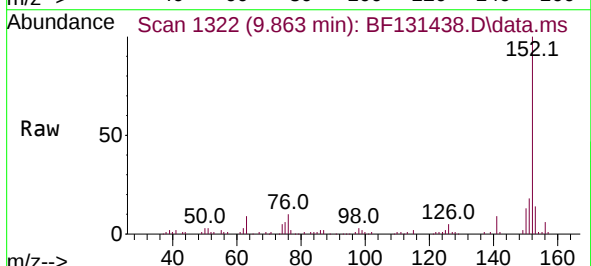
Delta R.T. -0.012 min

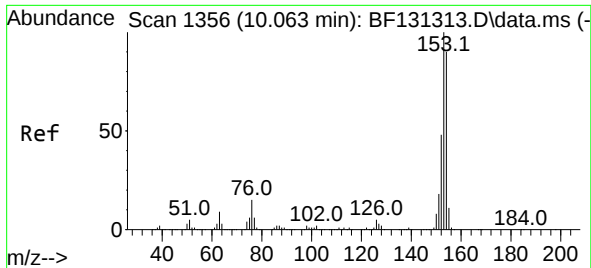
Lab File: BF131438.D

Acq: 28 Nov 2022 19:54

Tgt Ion:152 Resp: 54121

Ion	Ratio	Lower	Upper
152	100		
151	18.5	16.2	24.4
153	13.9	10.6	15.8





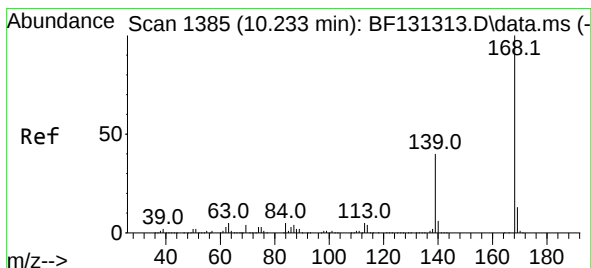
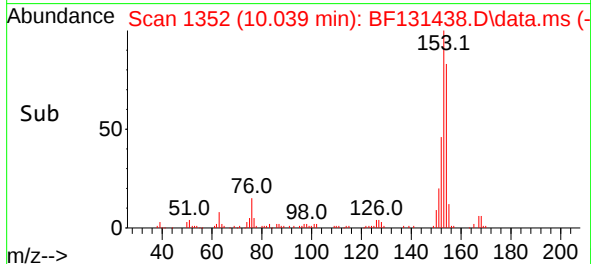
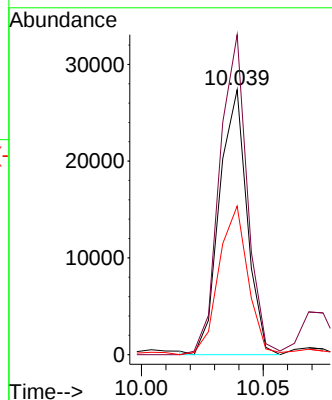
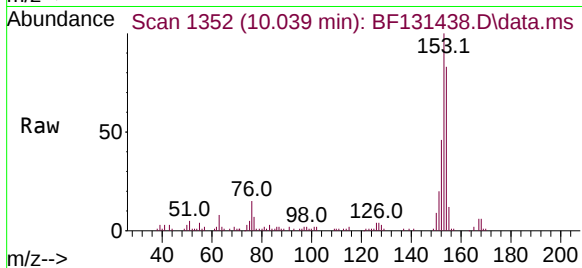
#52
Acenaphthene
Concen: 2.767 ng
RT: 10.039 min Scan# 1356
Delta R.T. -0.006 min
Lab File: BF131438.D
Acq: 28 Nov 2022 19:54

Instrument :
BNA_F
ClientSampleId :
B-11S

Tgt Ion:154 Resp: 21479
Ion Ratio Lower Upper
154 100
153 120.8 88.4 132.6
152 56.1 42.8 64.2

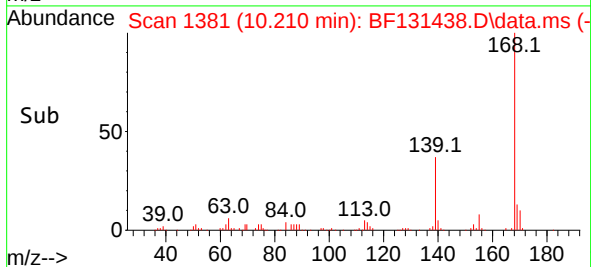
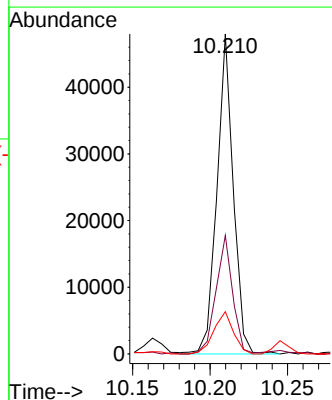
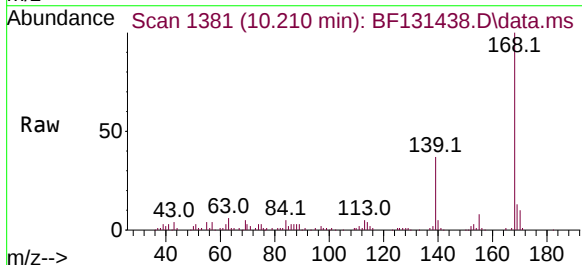
Manual Integrations
APPROVED

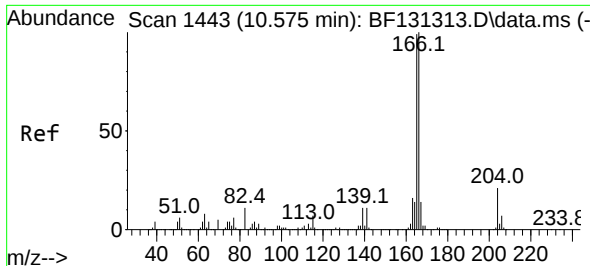
Reviewed By :Christian Giraldo 11/29/2022
Supervised By :mohammad ahmed 12/02/2022



#55
Dibenzofuran
Concen: 3.172 ng
RT: 10.210 min Scan# 1381
Delta R.T. -0.006 min
Lab File: BF131438.D
Acq: 28 Nov 2022 19:54

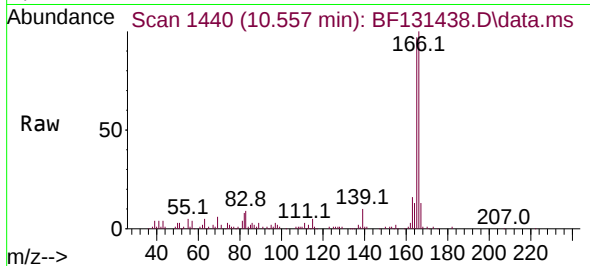
Tgt Ion:168 Resp: 35420
Ion Ratio Lower Upper
168 100
139 37.0 31.7 47.5
169 13.2 10.6 15.8





#58
Fluorene
Concen: 4.411 ng
RT: 10.557 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF131438.D
Acq: 28 Nov 2022 19:54

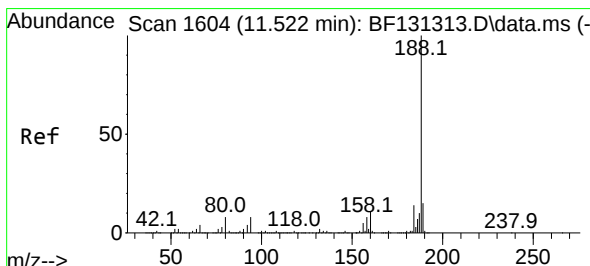
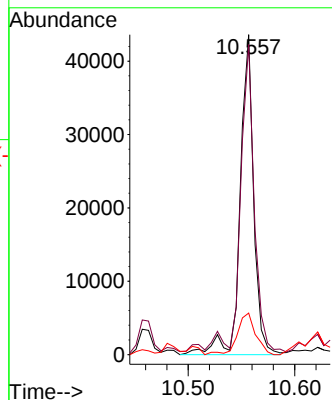
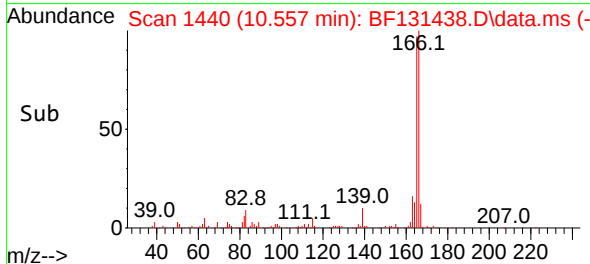
Instrument :
BNA_F
ClientSampleId :
B-11S



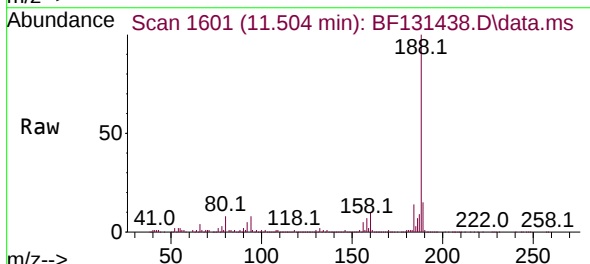
Tgt Ion:166 Resp: 38450
Ion Ratio Lower Upper
166 100
165 96.9 79.0 118.4
167 13.0 10.9 16.3

Manual Integrations
APPROVED

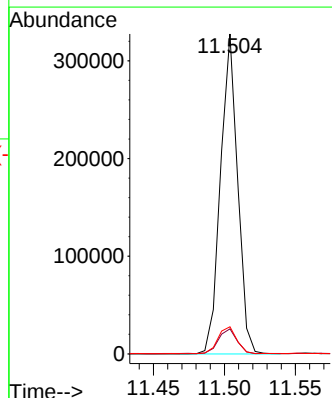
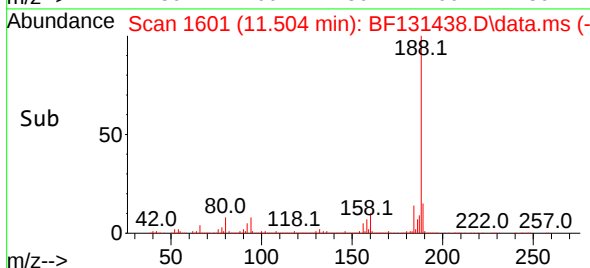
Reviewed By :Christian Giraldo 11/29/2022
Supervised By :mohammad ahmed 12/02/2022

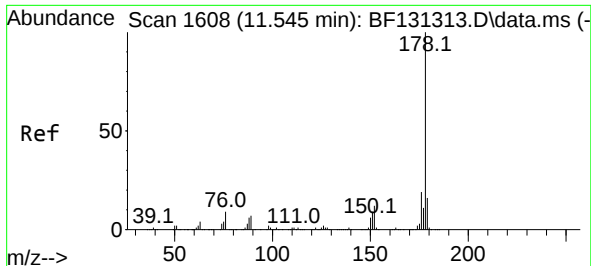


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.504 min Scan# 1601
Delta R.T. -0.000 min
Lab File: BF131438.D
Acq: 28 Nov 2022 19:54



Tgt Ion:188 Resp: 276061
Ion Ratio Lower Upper
188 100
94 7.8 6.3 9.5
80 8.5 6.8 10.2





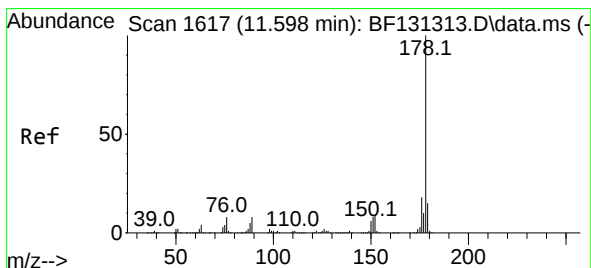
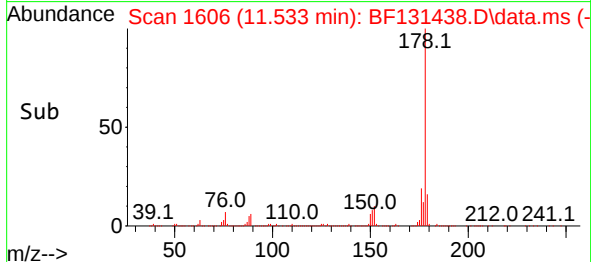
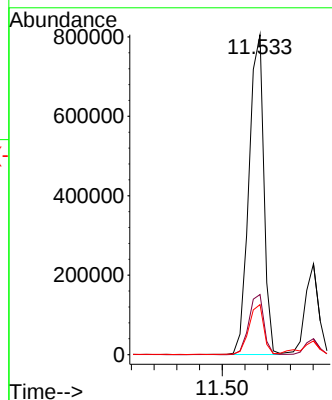
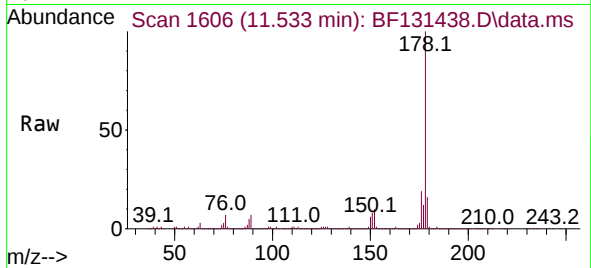
#71
Phenanthrene
Concen: 49.019 ng
RT: 11.533 min Scan# 1606
Delta R.T. -0.000 min
Lab File: BF131438.D
Acq: 28 Nov 2022 19:54

Instrument :
BNA_F
ClientSampleId :
B-11S

Tgt Ion:178 Resp: 731329
Ion Ratio Lower Upper
178 100
176 18.8 15.6 23.4
179 15.6 12.4 18.6

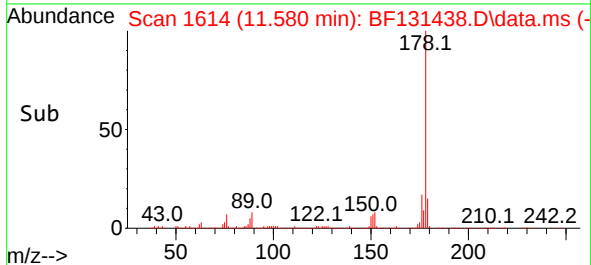
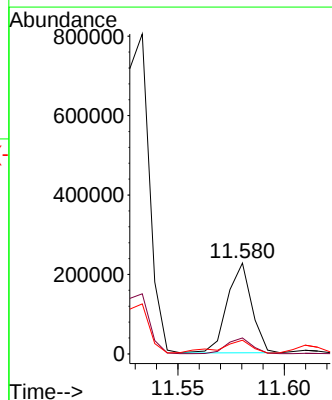
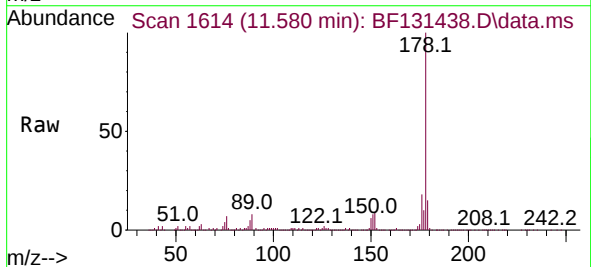
Manual Integrations
APPROVED

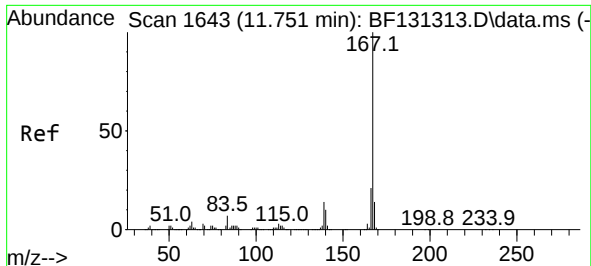
Reviewed By :Christian Giraldo 11/29/2022
Supervised By :mohammad ahmed 12/02/2022



#72
Anthracene
Concen: 12.350 ng
RT: 11.580 min Scan# 1614
Delta R.T. -0.006 min
Lab File: BF131438.D
Acq: 28 Nov 2022 19:54

Tgt Ion:178 Resp: 181079
Ion Ratio Lower Upper
178 100
176 17.5 14.7 22.1
179 15.1 12.2 18.4





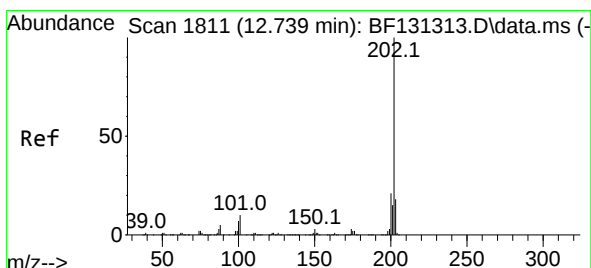
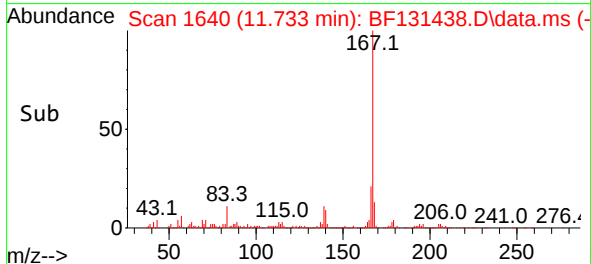
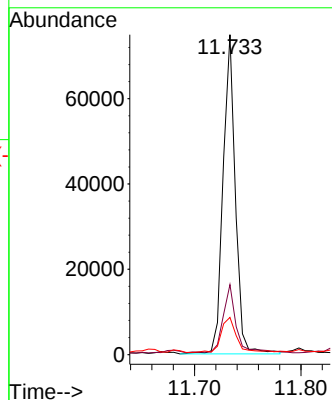
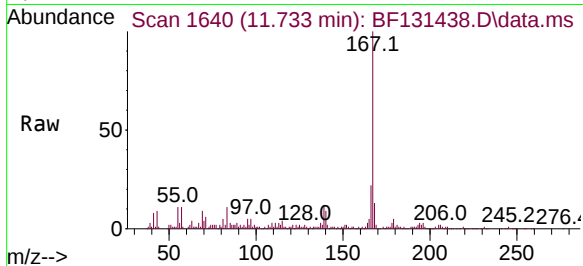
#73
 Carbazole
 Concen: 4.832 ng
 RT: 11.733 min Scan# 1643
 Delta R.T. -0.006 min
 Lab File: BF131438.D
 Acq: 28 Nov 2022 19:54

Instrument :
 BNA_F
 ClientSampleId :
 B-11S

Tgt Ion:167 Resp: 60438
 Ion Ratio Lower Upper
 167 100
 166 21.9 17.0 25.6
 139 11.6 10.8 16.2

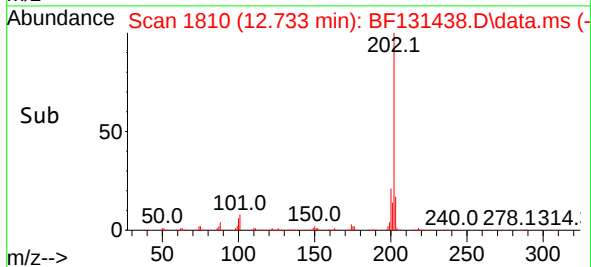
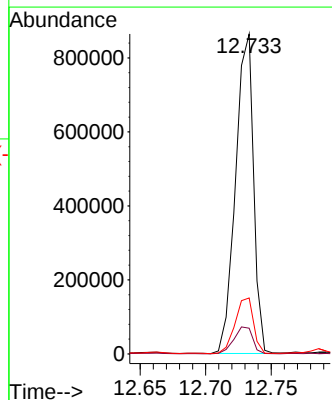
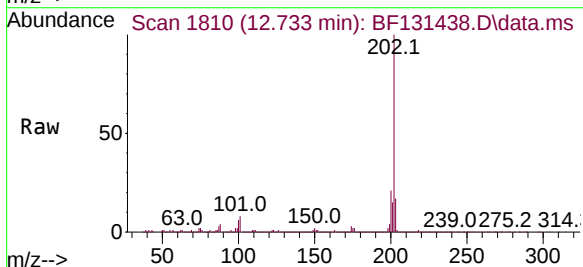
Manual Integrations
 APPROVED

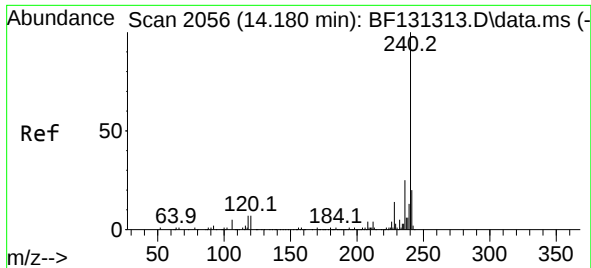
Reviewed By :Christian Giraldo 11/29/2022
 Supervised By :mohammad ahmed 12/02/2022



#75
 Fluoranthene
 Concen: 52.419 ng
 RT: 12.733 min Scan# 1810
 Delta R.T. 0.006 min
 Lab File: BF131438.D
 Acq: 28 Nov 2022 19:54

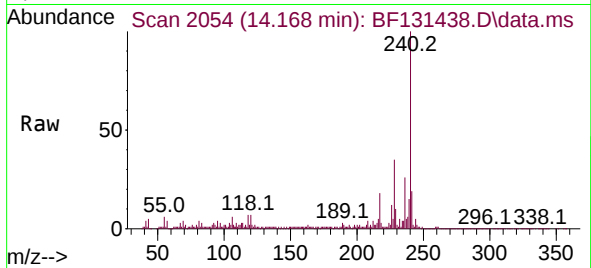
Tgt Ion:202 Resp: 824074
 Ion Ratio Lower Upper
 202 100
 101 8.0 0.0 29.6
 203 17.5 0.0 37.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.168 min Scan# 2054
Delta R.T. -0.000 min
Lab File: BF131438.D
Acq: 28 Nov 2022 19:54

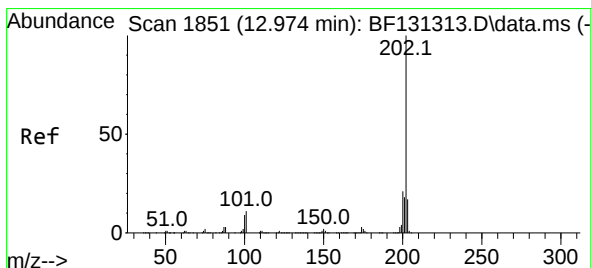
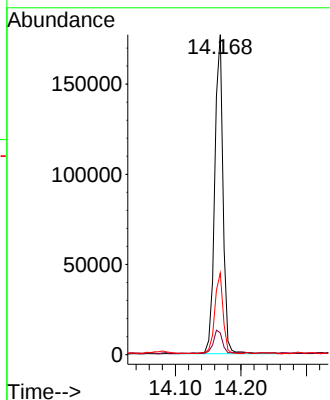
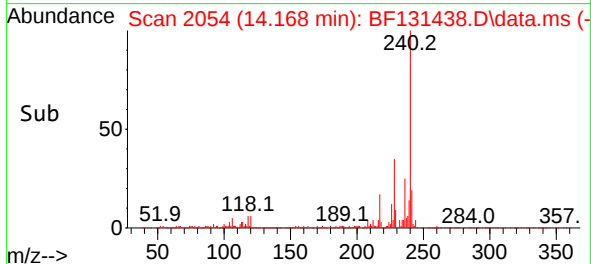
Instrument :
BNA_F
ClientSampleId :
B-11S



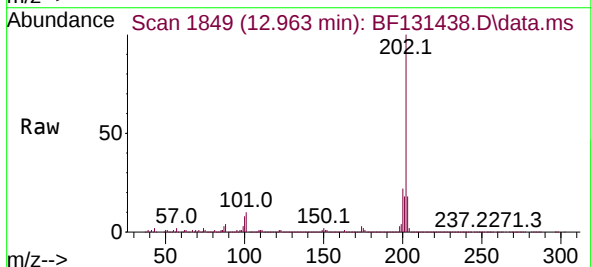
Tgt Ion:240 Resp: 156097
Ion Ratio Lower Upper
240 100
120 6.8 5.8 8.8
236 25.5 20.3 30.5

Manual Integrations
APPROVED

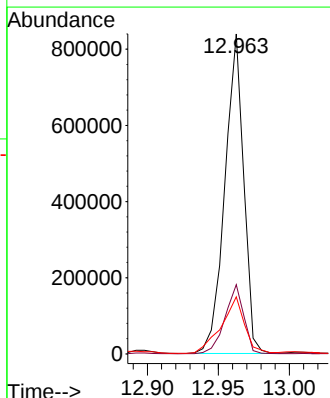
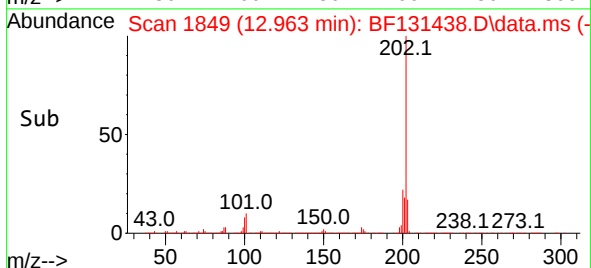
Reviewed By :Christian Giraldo 11/29/2022
Supervised By :mohammad ahmed 12/02/2022

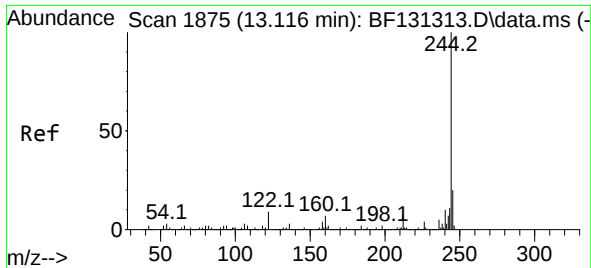


#78
Pyrene
Concen: 56.268 ng
RT: 12.963 min Scan# 1849
Delta R.T. -0.000 min
Lab File: BF131438.D
Acq: 28 Nov 2022 19:54



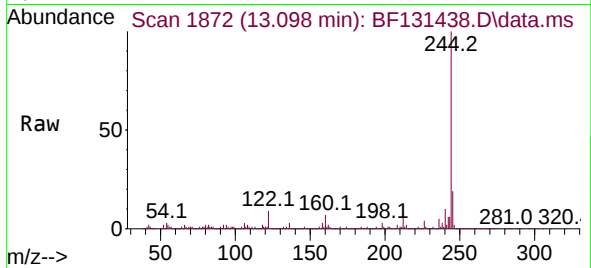
Tgt Ion:202 Resp: 774940
Ion Ratio Lower Upper
202 100
200 21.6 16.9 25.3
203 17.8 13.9 20.9





#79
 Terphenyl-d14
 Concen: 55.672 ng
 RT: 13.098 min Scan# 1875
 Delta R.T. -0.006 min
 Lab File: BF131438.D
 Acq: 28 Nov 2022 19:54

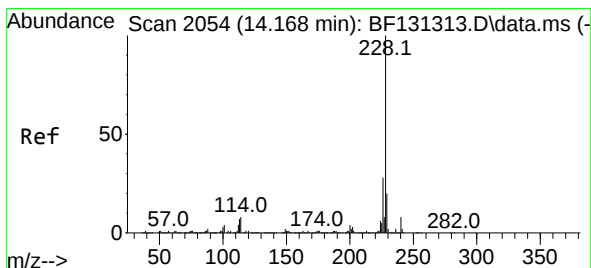
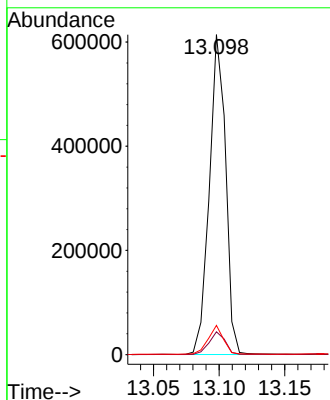
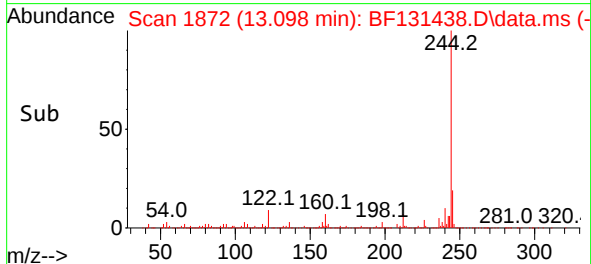
Instrument :
 BNA_F
 ClientSampleId :
 B-11S



Tgt Ion:244 Resp: 531422
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.9 8.9
 122 9.1 7.5 11.3

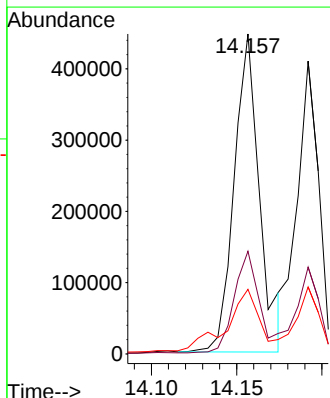
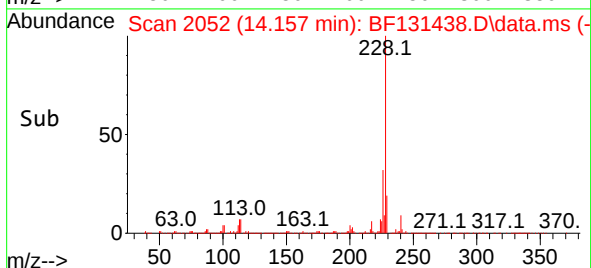
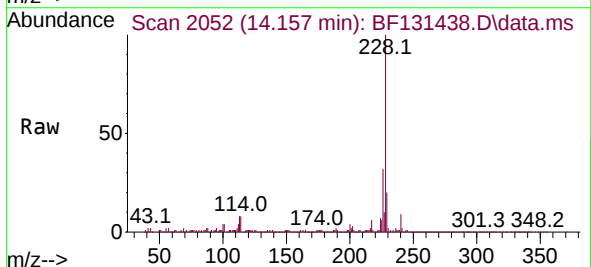
Manual Integrations
 APPROVED

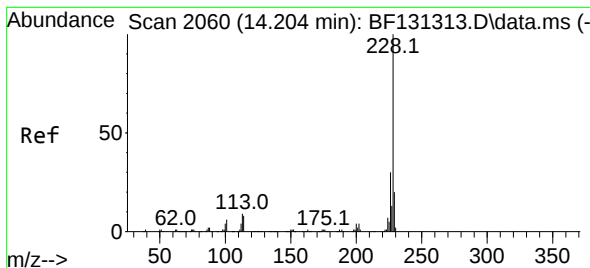
Reviewed By :Christian Giraldo 11/29/2022
 Supervised By :mohammad ahmed 12/02/2022



#81
 Benzo(a)anthracene
 Concen: 43.206 ng
 RT: 14.157 min Scan# 2052
 Delta R.T. -0.000 min
 Lab File: BF131438.D
 Acq: 28 Nov 2022 19:54

Tgt Ion:228 Resp: 462289
 Ion Ratio Lower Upper
 228 100
 226 32.1 22.0 33.0
 229 20.2 15.7 23.5





#83

Chrysene

Concen: 34.649 ng

RT: 14.192 min Scan# 2060

Delta R.T. -0.000 min

Lab File: BF131438.D

Acq: 28 Nov 2022 19:54

Instrument :

BNA_F

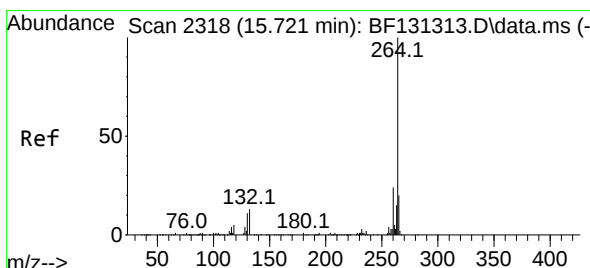
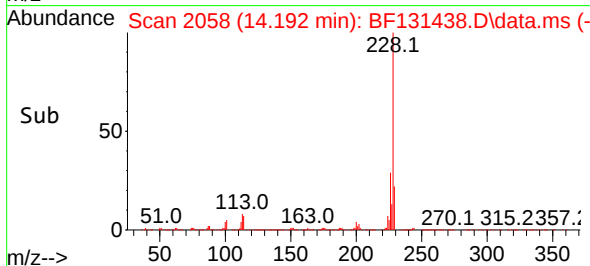
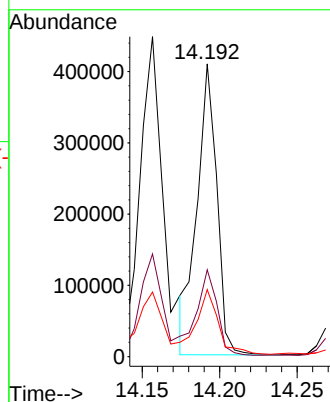
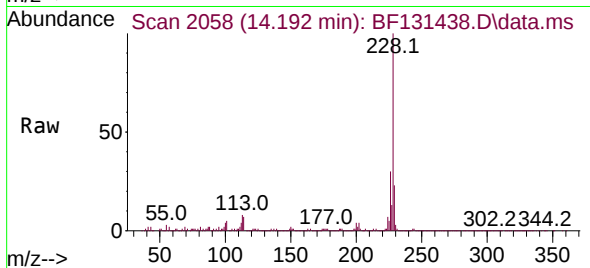
ClientSampleId :

B-11S

Tgt Ion:228 Resp: 363723
 Ion Ratio Lower Upper
 228 100
 226 29.6 23.7 35.5
 229 22.9 16.2 24.4

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 11/29/2022
 Supervised By :mohammad ahmed 12/02/2022



#86

Perylene-d12

Concen: 20.000 ng

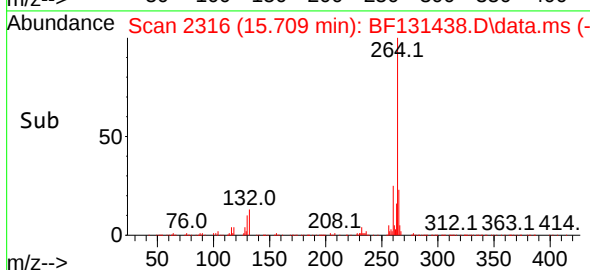
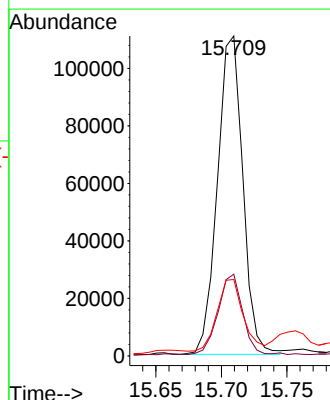
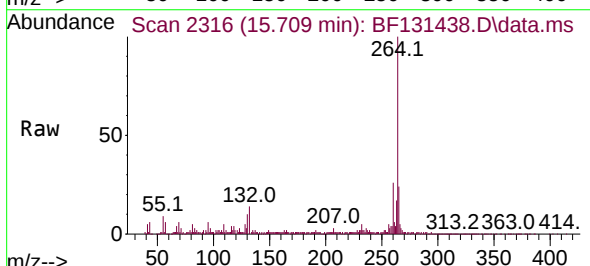
RT: 15.709 min Scan# 2316

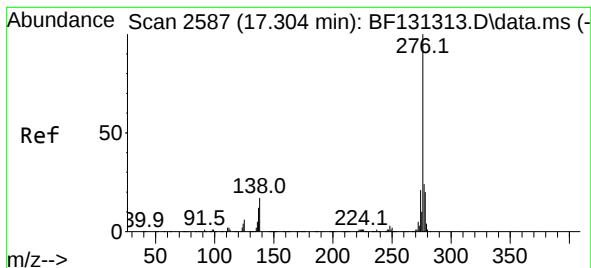
Delta R.T. 0.012 min

Lab File: BF131438.D

Acq: 28 Nov 2022 19:54

Tgt Ion:264 Resp: 149588
 Ion Ratio Lower Upper
 264 100
 260 25.5 19.0 28.4
 265 23.9 16.4 24.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 18.569 ng m

RT: 17.280 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF131438.D

Acq: 28 Nov 2022 19:54

Instrument :

BNA_F

ClientSampleId :

B-11S

Tgt Ion:276 Resp: 186563

Ion Ratio Lower Upper

276 100

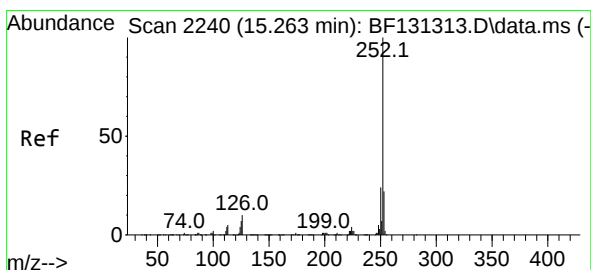
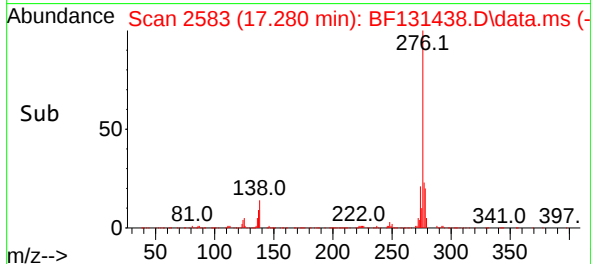
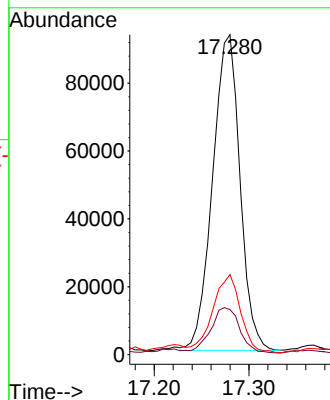
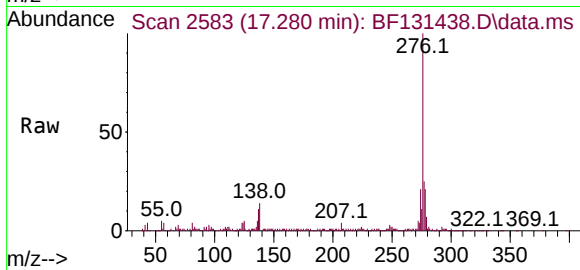
138 4.2 15.8 23.6

277 4.7 20.3 30.5

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 11/29/2022
Supervised By :mohammad ahmed 12/02/2022



#88

Benzo(b)fluoranthene

Concen: 50.164 ng m

RT: 15.251 min Scan# 2238

Delta R.T. 0.006 min

Lab File: BF131438.D

Acq: 28 Nov 2022 19:54

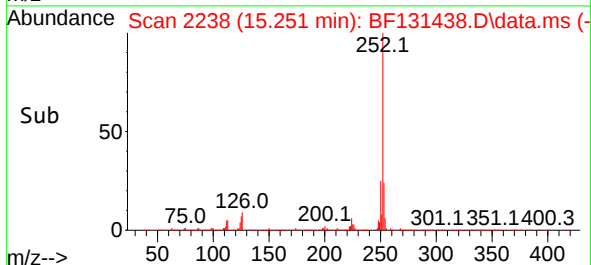
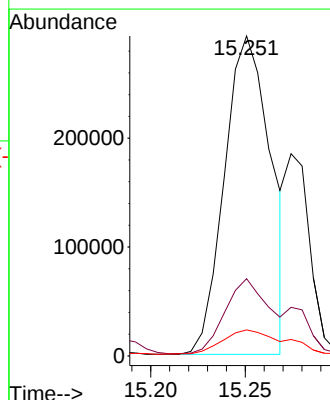
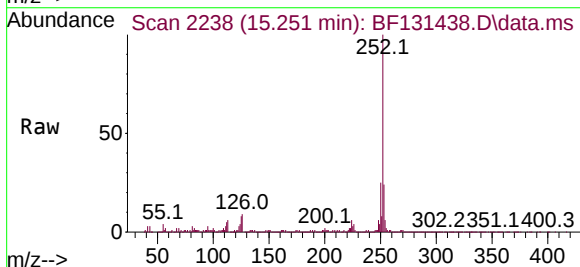
Tgt Ion:252 Resp: 498504

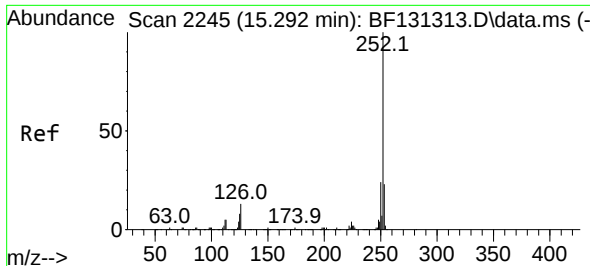
Ion Ratio Lower Upper

252 100

253 24.1 17.5 26.3

125 8.1 5.8 8.6





#89

Benzo(k)fluoranthene

Concen: 15.424 ng m

RT: 15.274 min Scan# 2245

Delta R.T. -0.006 min

Lab File: BF131438.D

Acq: 28 Nov 2022 19:54

Instrument :

BNA_F

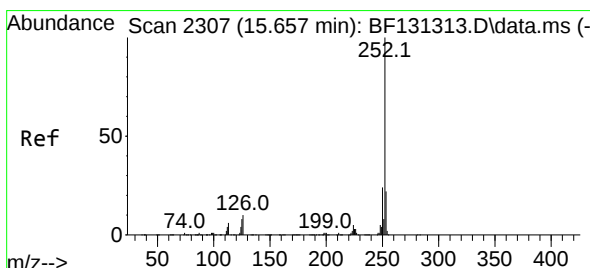
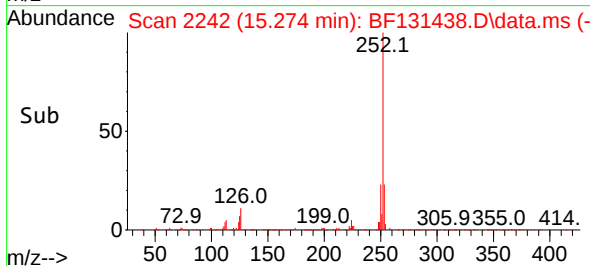
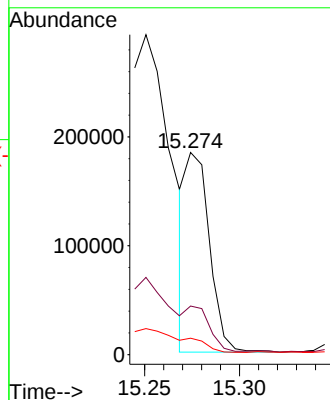
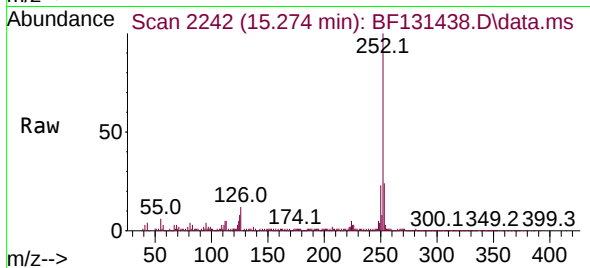
ClientSampleId :

B-11S

Tgt Ion:252 Resp: 157518
 Ion Ratio Lower Upper
 252 100
 253 24.0 17.9 26.9
 125 8.1 6.6 10.0

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 11/29/2022
 Supervised By :mohammad ahmed 12/02/2022



#90

Benzo(a)pyrene

Concen: 44.992 ng

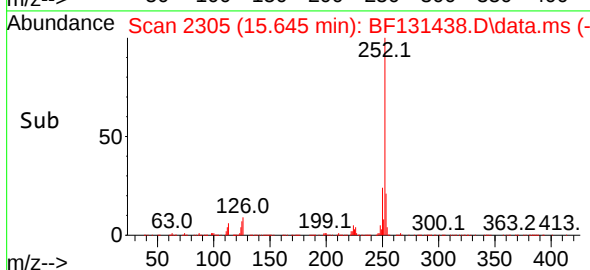
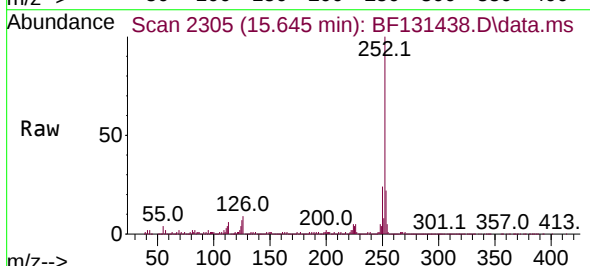
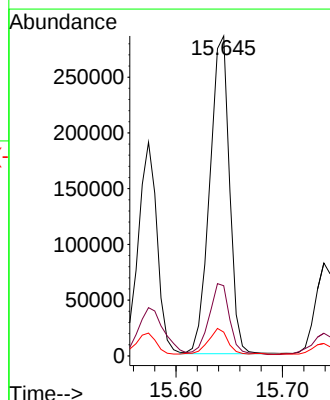
RT: 15.645 min Scan# 2305

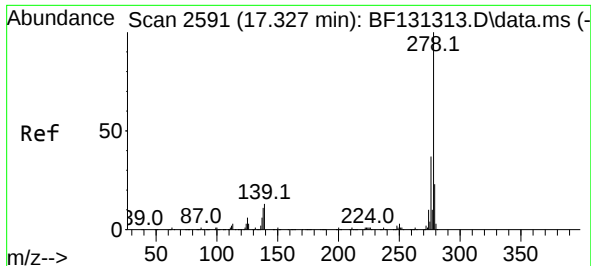
Delta R.T. 0.006 min

Lab File: BF131438.D

Acq: 28 Nov 2022 19:54

Tgt Ion:252 Resp: 366861
 Ion Ratio Lower Upper
 252 100
 253 21.9 17.5 26.3
 125 7.4 6.1 9.1





#91
Dibenzo(a,h)anthracene
Concen: 5.563 ng m
RT: 17.292 min Scan# 2591
Delta R.T. -0.006 min
Lab File: BF131438.D
Acq: 28 Nov 2022 19:54

Instrument :

BNA_F

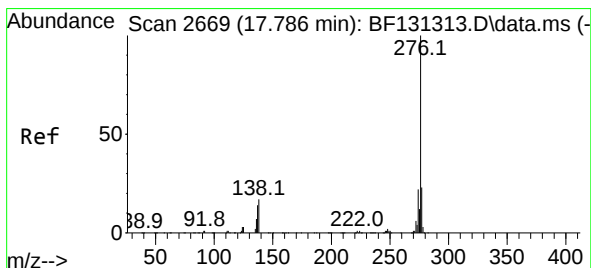
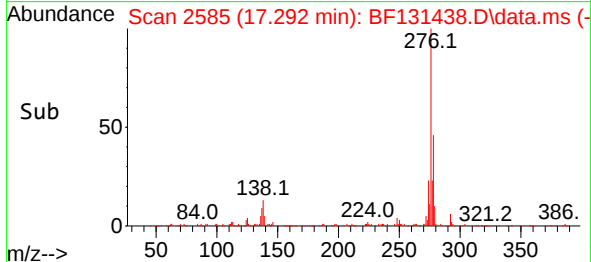
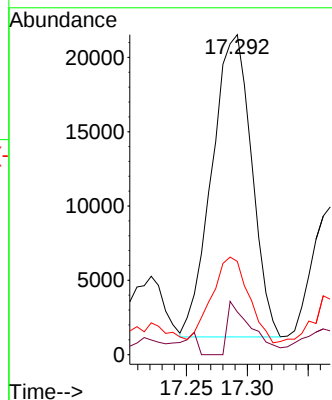
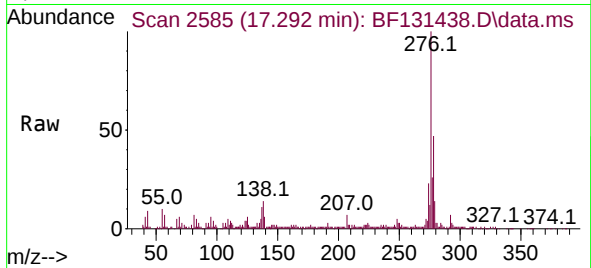
ClientSampleId :

B-11S

Tgt Ion:278 Resp: 46143
Ion Ratio Lower Upper
278 100
139 13.3 10.4 15.6
279 29.1 18.3 27.5

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 11/29/2022
Supervised By :mohammad ahmed 12/02/2022



#92
Benzo(g,h,i)perylene
Concen: 20.257 ng
RT: 17.751 min Scan# 2663
Delta R.T. -0.006 min
Lab File: BF131438.D
Acq: 28 Nov 2022 19:54

Tgt Ion:276 Resp: 167702
Ion Ratio Lower Upper
276 100
277 22.5 18.3 27.5
138 16.1 13.8 20.6

