

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021521\
 Data File : BF123210.D
 Acq On : 15 Feb 2021 18:01
 Operator : JU/CG
 Sample : M1400-01 5X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 BIN-2

Manual Integrations
 APPROVED

mohammad
 2/16/2021 10:44:51 AM

Quant Time: Feb 15 23:44:53 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF021221.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 12 16:59:49 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	152268	20.00	ng	0.00
21) Naphthalene-d8	8.151	136	599090	20.00	ng	0.00
39) Acenaphthene-d10	9.910	164	294875	20.00	ng	0.00
64) Phenanthrene-d10	11.398	188	513756	20.00	ng	0.00
76) Chrysene-d12	14.051	240	334868	20.00	ng	0.00
86) Perylene-d12	15.527	264	333167	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.475	112	181163	18.03	ng	0.00
7) Phenol-d6	6.487	99	223670	16.86	ng	-0.01
23) Nitrobenzene-d5	7.422	82	135183	11.86	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	52233	16.40	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	236539	11.99	ng	0.00
79) Terphenyl-d14	12.986	244	187351	11.21	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.175	128	162980	5.05	ng	99
37) 2-Methylnaphthalene	8.869	142	68589	3.21	ng	96
38) 1-Methylnaphthalene	8.963	142	64390	3.21	ng	96
52) Acenaphthene	9.945	154	146252	7.34	ng	98
55) Dibenzofuran	10.116	168	162867	6.04	ng	98
58) Fluorene	10.457	166	198090	9.47	ng	99
71) Phenanthrene	11.427	178	842887	27.85	ng	99
72) Anthracene	11.475	178	236430	7.82	ng	97
73) Carbazole	11.627	167	80156	2.78	ng	97
75) Fluoranthene	12.616	202	468882	15.42	ng	98
78) Pyrene	12.845	202	363352	14.68	ng	99
81) Benzo(a)anthracene	14.039	228	133061	5.90	ng	99
83) Chrysene	14.074	228	112773m	5.07	ng	
87) Indeno(1,2,3-cd)pyrene	17.004	276	61918	2.71	ng	99
88) Benzo(b)fluoranthene	15.092	252	144346m	6.17	ng	
90) Benzo(a)pyrene	15.462	252	102423	4.89	ng	# 95
92) Benzo(g,h,i)perylene	17.456	276	58655	3.11	ng	# 90

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

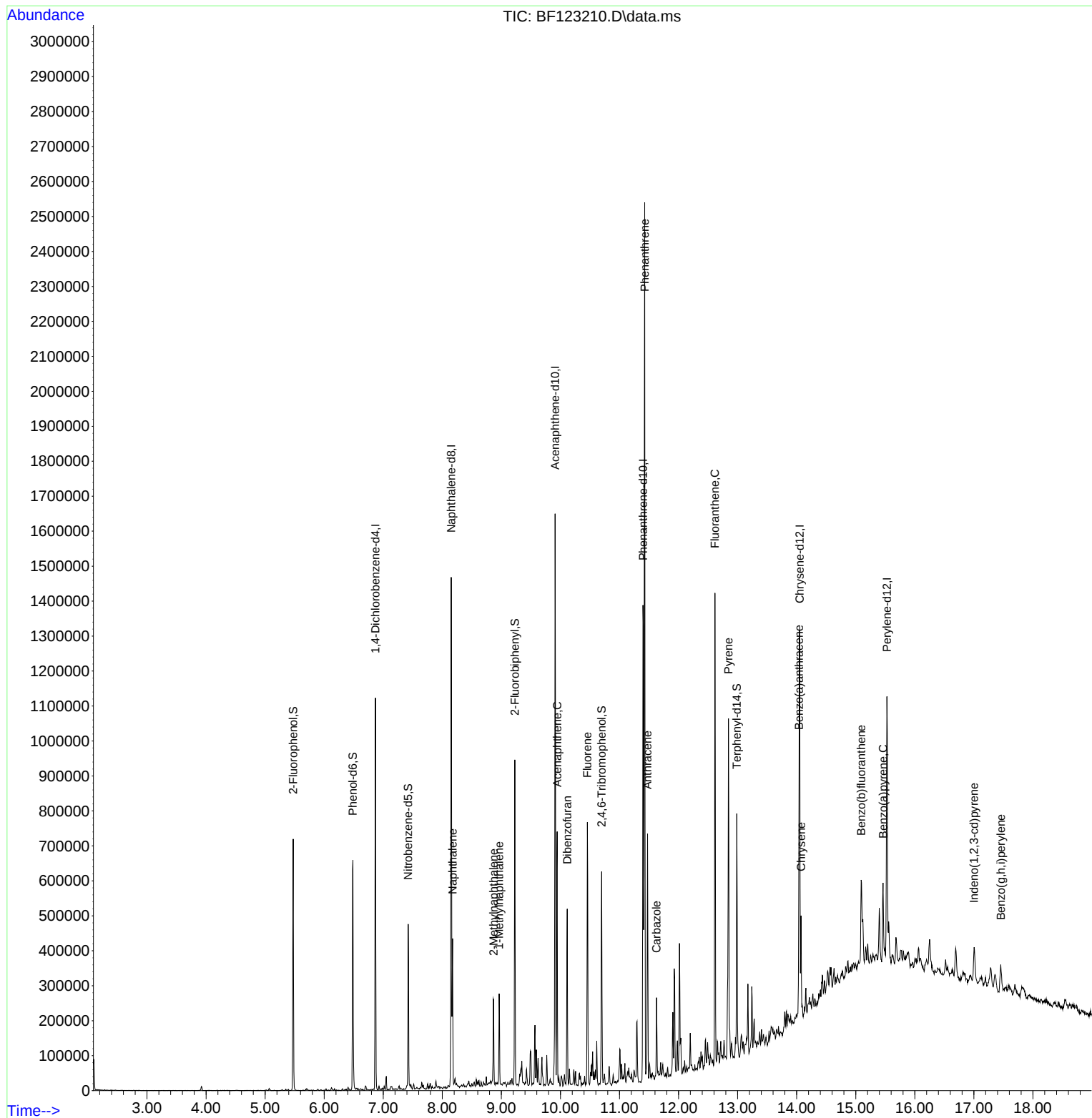
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021521\
Data File : BF123210.D
Acq On : 15 Feb 2021 18:01
Operator : JU/CG
Sample : M1400-01 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

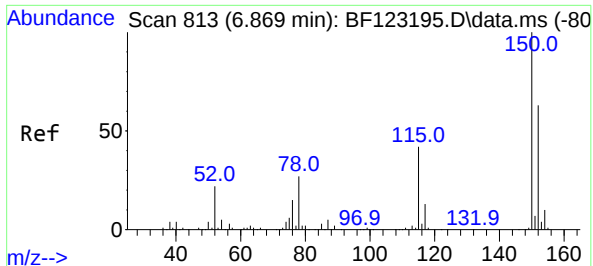
Instrument :
BNA_F
ClientSampleId :
BIN-2

Manual Integrations
APPROVED

mohammad
2/16/2021 10:44:51 AM

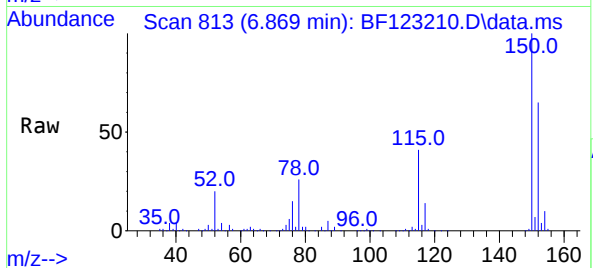
Quant Time: Feb 15 23:44:53 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF021221.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 12 16:59:49 2021
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.869 min Scan# 813
Delta R.T. -0.000 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01

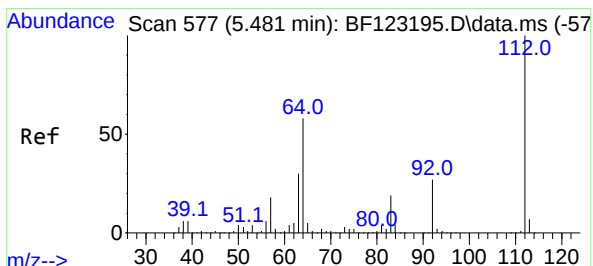
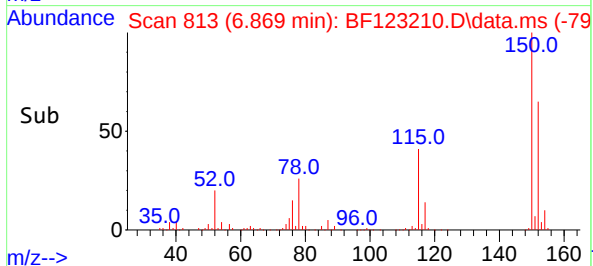
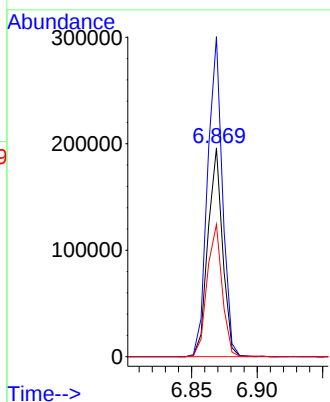
Instrument :
BNA_F
ClientSampled :
BIN-2



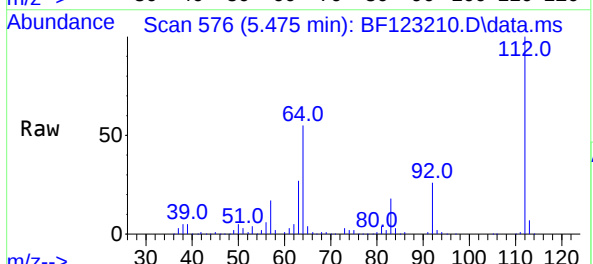
Tgt Ion:152 Resp: 152268
Ion Ratio Lower Upper
152 100
150 153.2 125.8 188.6
115 63.4 49.3 73.9

Manual Integrations
APPROVED

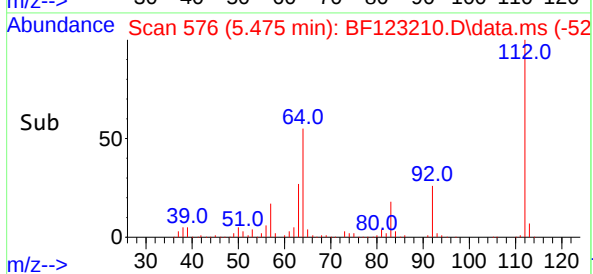
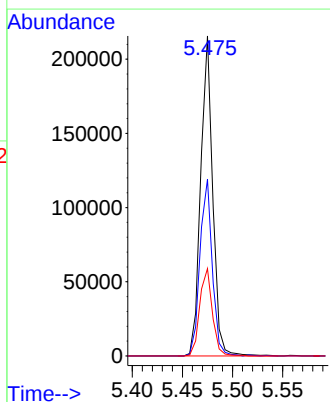
mohammad
2/16/2021 10:44:51 AM

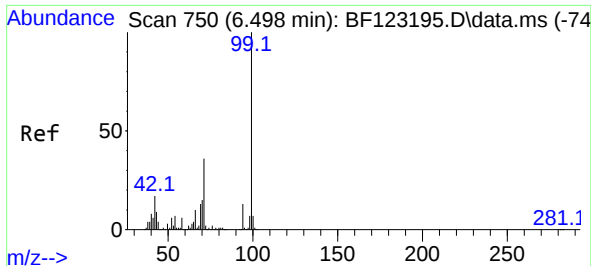


#5
2-Fluorophenol
Concen: 18.03 ng
RT: 5.475 min Scan# 576
Delta R.T. -0.006 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01

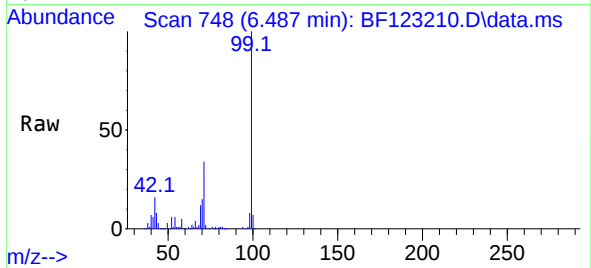


Tgt Ion:112 Resp: 181163
Ion Ratio Lower Upper
112 100
64 55.2 46.9 70.3
63 27.3 24.5 36.7

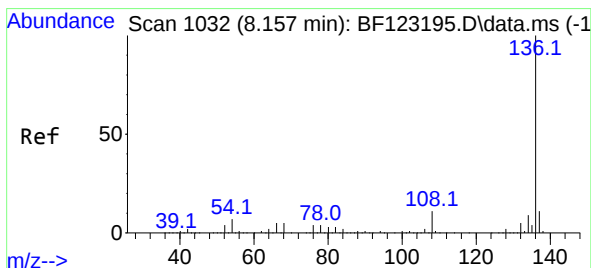
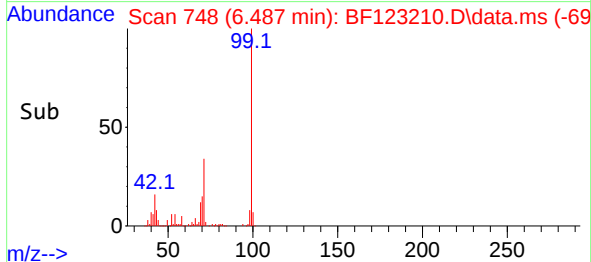
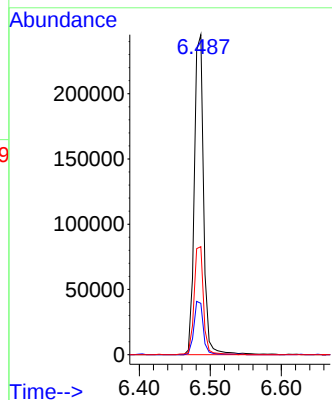




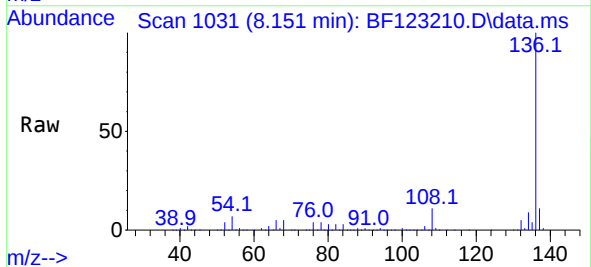
#7
Phenol-d6
Concen: 16.86 ng
RT: 6.487 min Scan# 748
Delta R.T. -0.012 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01



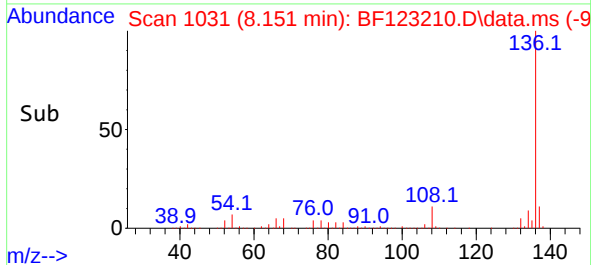
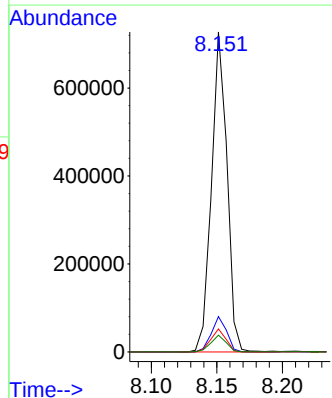
Tgt Ion: 99 Resp: 223670
Ion Ratio Lower Upper
99 100
42 16.1 13.8 20.6
71 33.7 26.9 40.3



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.151 min Scan# 1031
Delta R.T. -0.006 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01



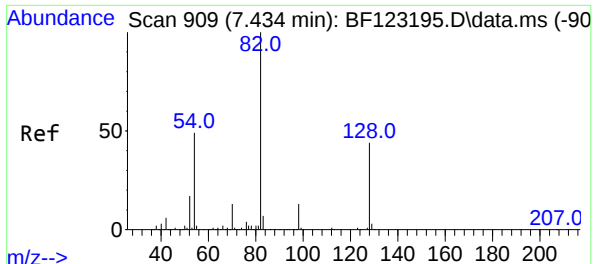
Tgt Ion: 136 Resp: 599090
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 7.2 5.5 8.3
68 5.3 4.6 6.8



Instrument :
BNA_F
ClientSampleId :
BIN-2

Manual Integrations
APPROVED

mohammad
2/16/2021 10:44:51 AM



#23

Nitrobenzene-d5

Concen: 11.86 ng

RT: 7.422 min Scan# 907

Delta R.T. -0.012 min

Lab File: BF123210.D

Acq: 15 Feb 2021 18:01

Tgt Ion:	82	Resp:	135183
Ion	Ratio	Lower	Upper
82	100		
128	43.2	37.0	55.4
54	49.0	38.4	57.6

Instrument :

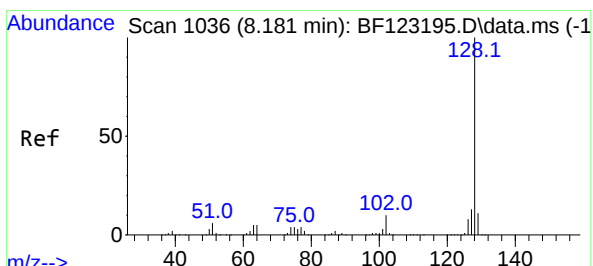
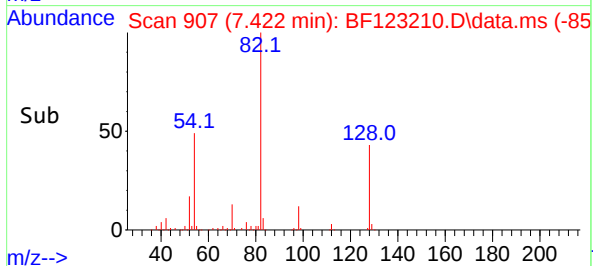
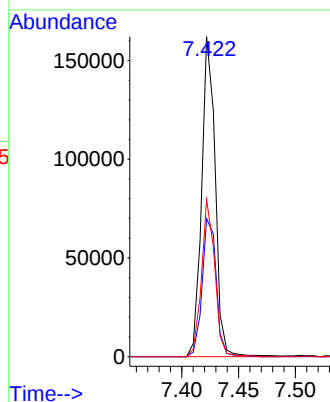
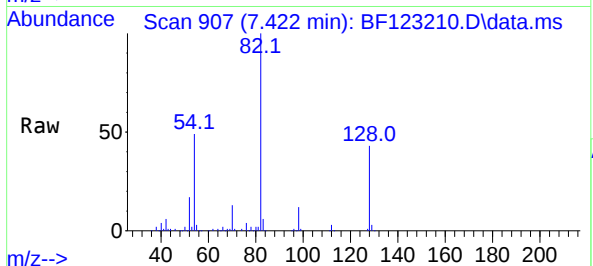
BNA_F

ClientSampled :

BIN-2

Manual Integrations
APPROVED

mohammad
2/16/2021 10:44:51 AM



#31

Naphthalene

Concen: 5.05 ng

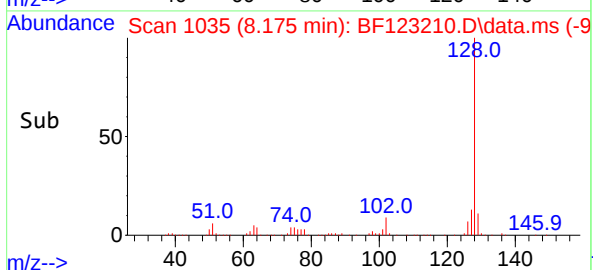
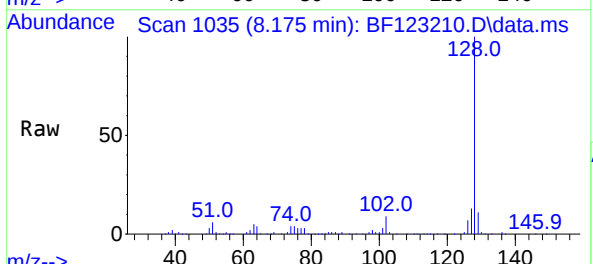
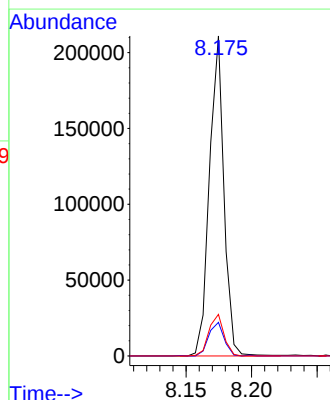
RT: 8.175 min Scan# 1035

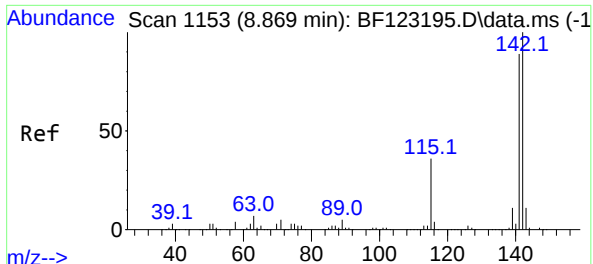
Delta R.T. -0.006 min

Lab File: BF123210.D

Acq: 15 Feb 2021 18:01

Tgt Ion:	128	Resp:	162980
Ion	Ratio	Lower	Upper
128	100		
129	10.5	9.0	13.6
127	13.0	10.7	16.1





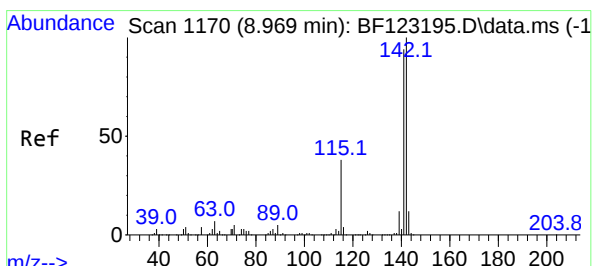
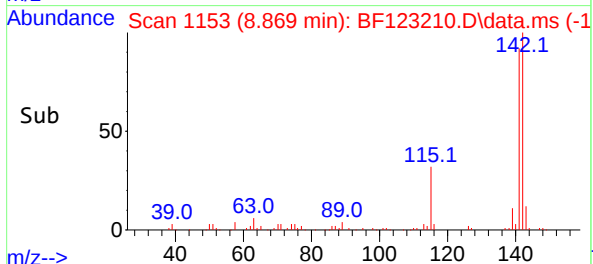
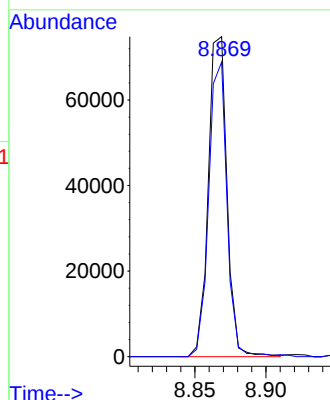
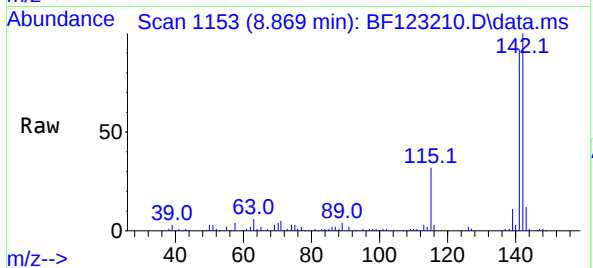
#37
2-Methylnaphthalene
Concen: 3.21 ng
RT: 8.869 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01

Tgt Ion:142 Resp: 68589
Ion Ratio Lower Upper
142 100
141 92.1 70.6 106.0

Instrument :
BNA_F
ClientSampled :
BIN-2

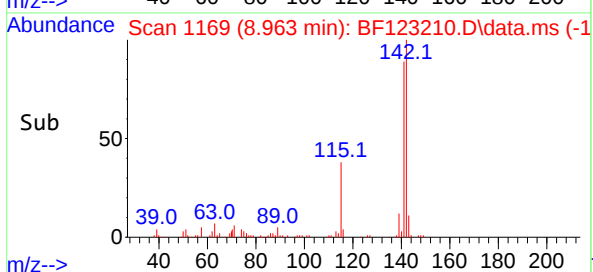
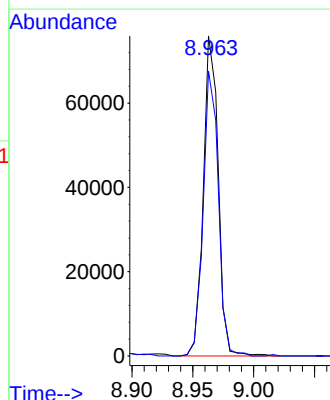
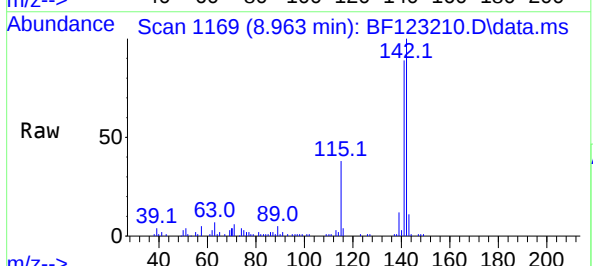
Manual Integrations
APPROVED

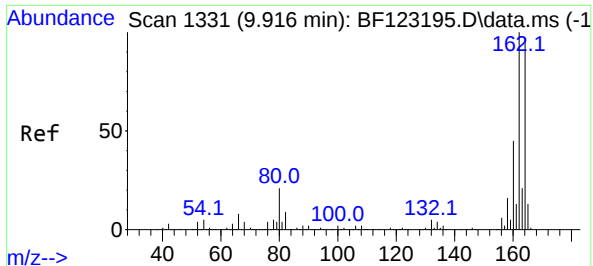
mohammad
2/16/2021 10:44:51 AM



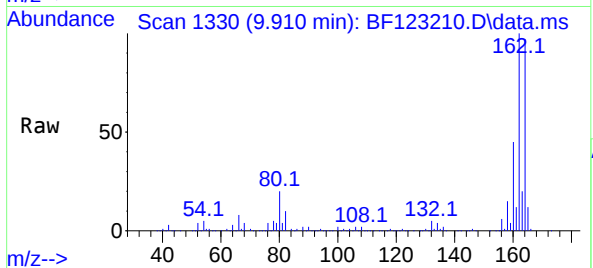
#38
1-Methylnaphthalene
Concen: 3.21 ng
RT: 8.963 min Scan# 1169
Delta R.T. -0.006 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01

Tgt Ion:142 Resp: 64390
Ion Ratio Lower Upper
142 100
141 89.1 74.5 111.7

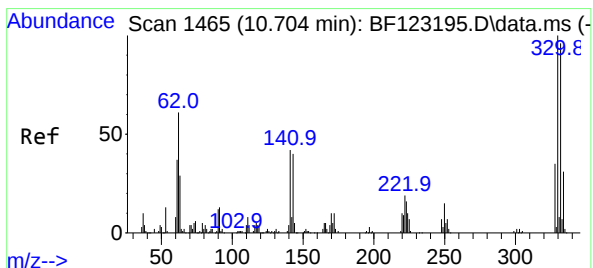
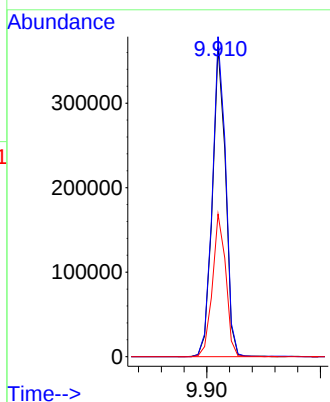
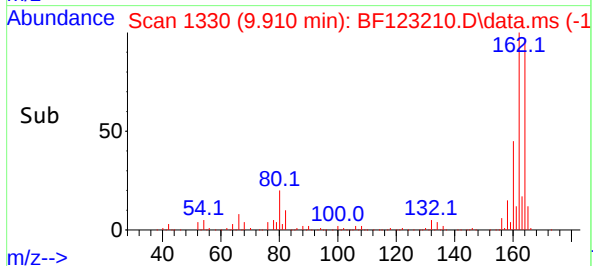




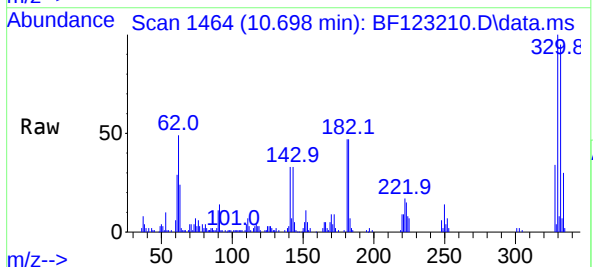
#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.910 min Scan# 1330
Delta R.T. -0.006 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01



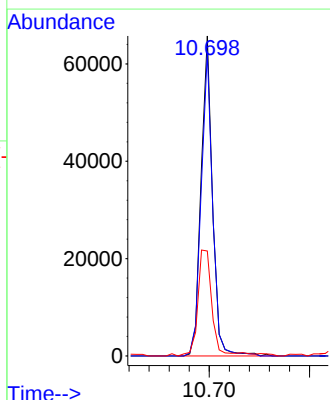
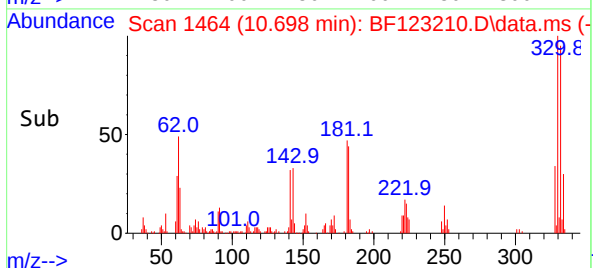
Tgt Ion:164 Resp: 294875
Ion Ratio Lower Upper
164 100
162 103.3 80.8 121.2
160 46.0 35.4 53.0



#42
2,4,6-Tribromophenol
Concen: 16.40 ng
RT: 10.698 min Scan# 1464
Delta R.T. -0.006 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01



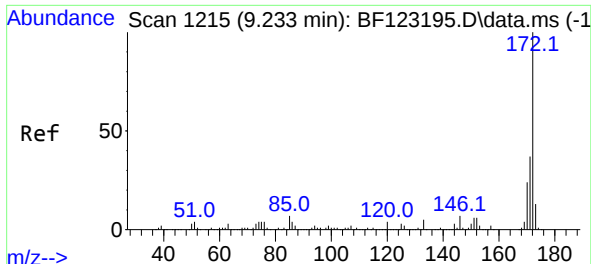
Tgt Ion:330 Resp: 52233
Ion Ratio Lower Upper
330 100
332 95.7 77.5 116.3
141 40.2 23.8 35.8#



Instrument :
BNA_F
ClientSampled :
BIN-2

Manual Integrations
APPROVED

mohammad
2/16/2021 10:44:51 AM



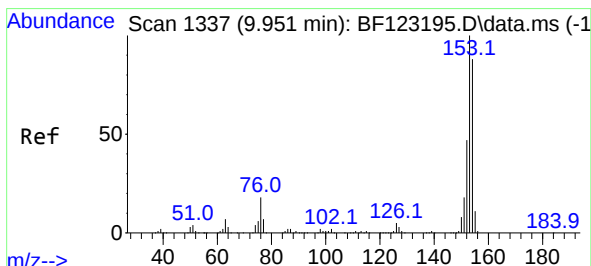
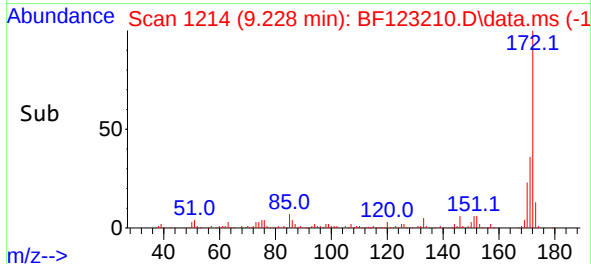
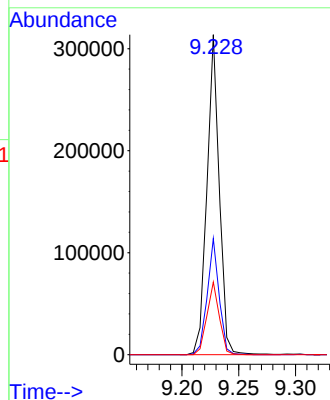
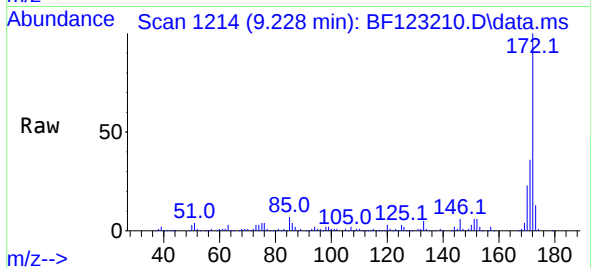
#45
2-Fluorobiphenyl
Concen: 11.99 ng
RT: 9.228 min Scan# 1214
Delta R.T. -0.006 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01

Tgt Ion:	172	Resp:	236539
Ion Ratio	Lower	Upper	
172	100		
171	36.3	29.6	44.4
170	22.7	19.5	29.3

Instrument :
BNA_F
ClientSampleId :
BIN-2

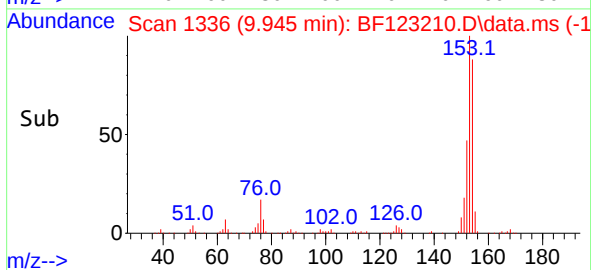
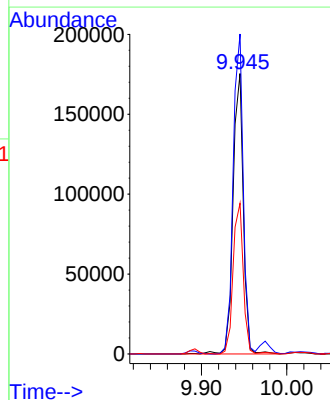
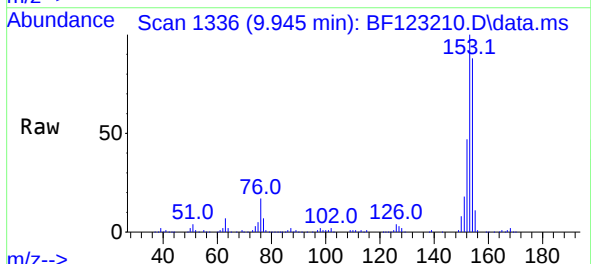
Manual Integrations
APPROVED

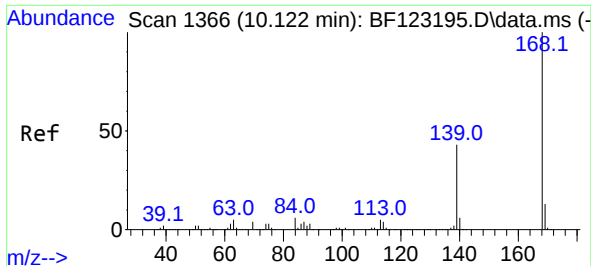
mohammad
2/16/2021 10:44:51 AM



#52
Acenaphthene
Concen: 7.34 ng
RT: 9.945 min Scan# 1336
Delta R.T. -0.006 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01

Tgt Ion:	154	Resp:	146252
Ion Ratio	Lower	Upper	
154	100		
153	114.1	89.0	133.6
152	53.7	42.7	64.1





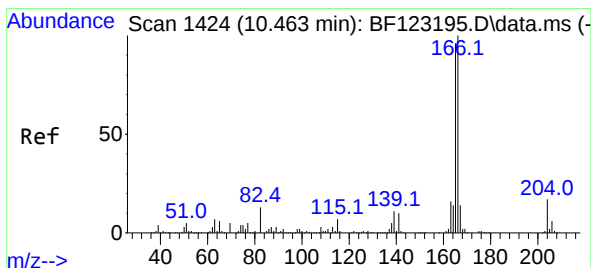
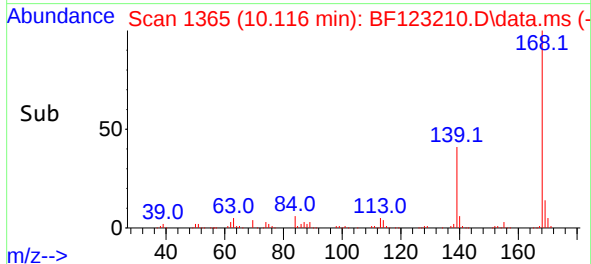
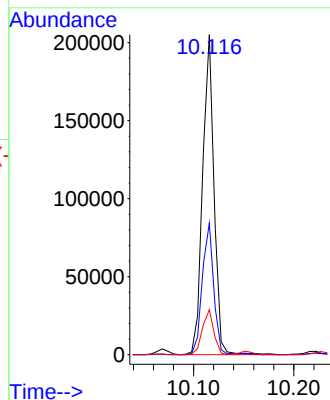
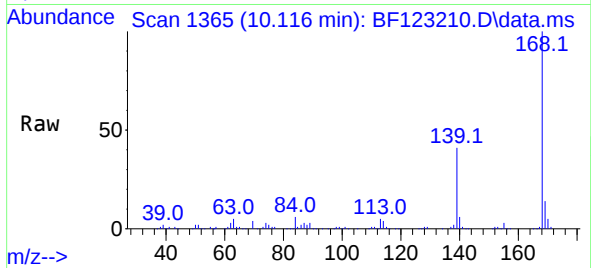
#55
Dibenzenofuran
Concen: 6.04 ng
RT: 10.116 min Scan# 1365
Delta R.T. -0.006 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01

Tgt Ion:168 Resp: 162867
Ion Ratio Lower Upper
168 100
139 41.1 31.3 46.9
169 14.0 11.2 16.8

Instrument :
BNA_F
ClientSampled :
BIN-2

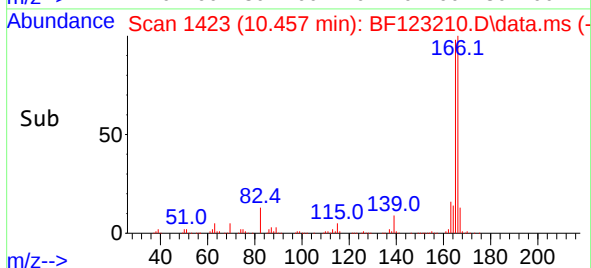
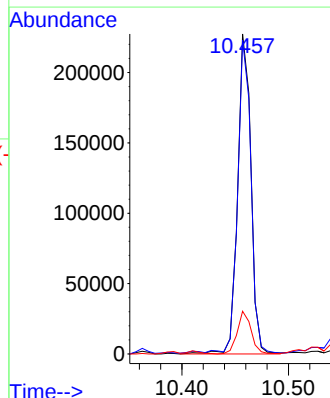
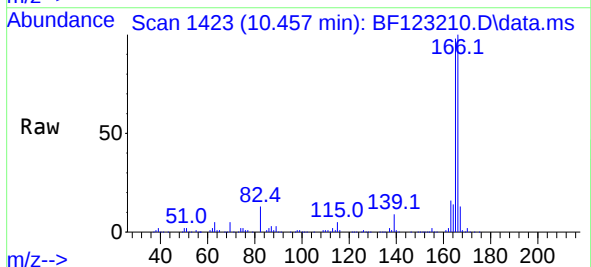
Manual Integrations
APPROVED

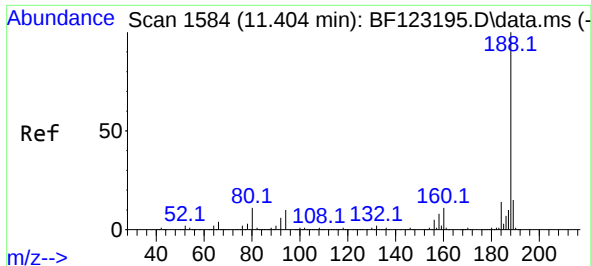
mohammad
2/16/2021 10:44:51 AM



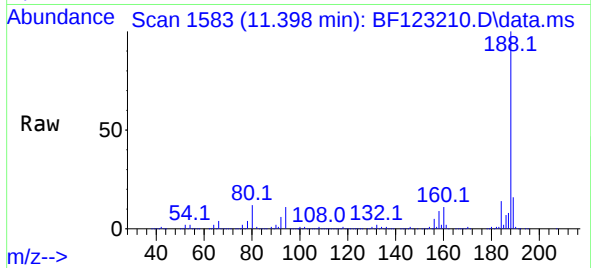
#58
Fluorene
Concen: 9.47 ng
RT: 10.457 min Scan# 1423
Delta R.T. -0.006 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01

Tgt Ion:166 Resp: 198090
Ion Ratio Lower Upper
166 100
165 98.1 79.4 119.0
167 13.4 10.9 16.3

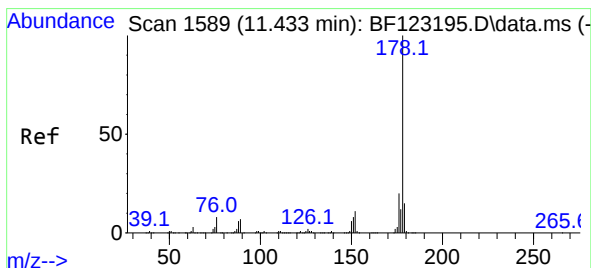
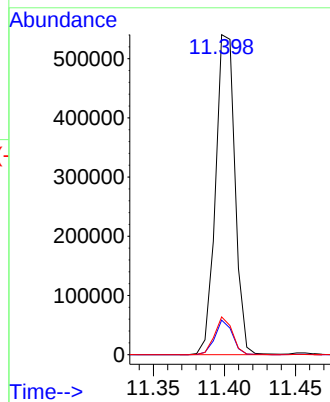
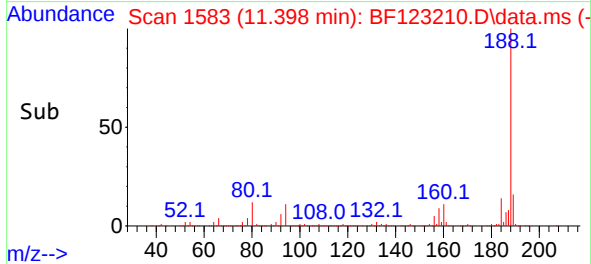




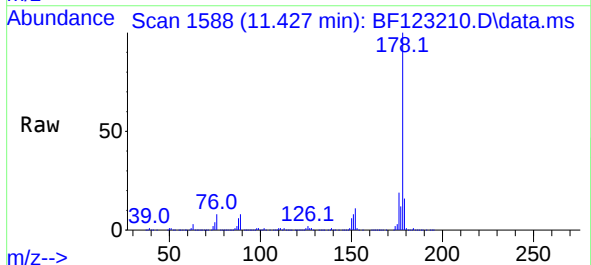
#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.398 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01



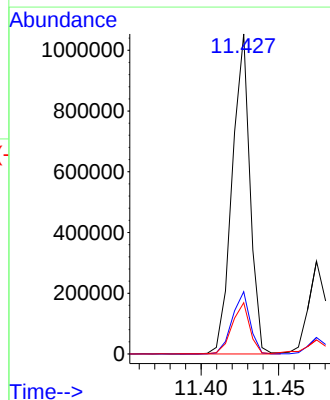
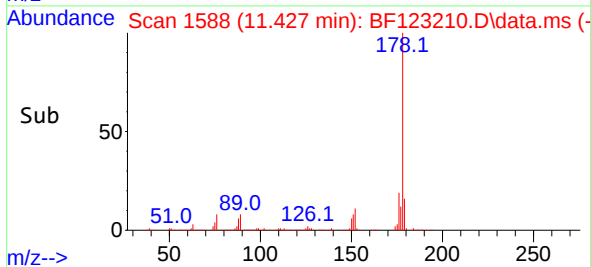
Tgt Ion:188 Resp: 513756
Ion Ratio Lower Upper
188 100
94 10.8 7.4 11.2
80 11.8 8.2 12.4



#71
Phenanthrene
Concen: 27.85 ng
RT: 11.427 min Scan# 1588
Delta R.T. -0.006 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01



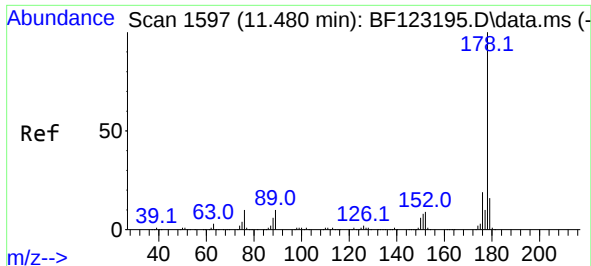
Tgt Ion:178 Resp: 842887
Ion Ratio Lower Upper
178 100
176 19.5 16.2 24.2
179 16.0 12.7 19.1



Instrument :
BNA_F
ClientSampleId :
BIN-2

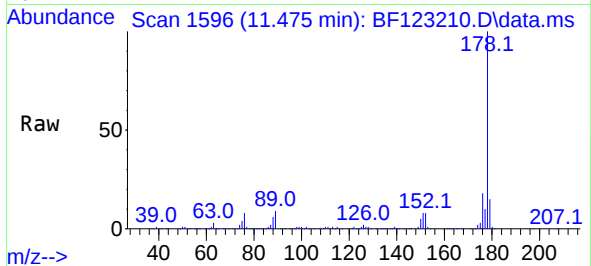
Manual Integrations
APPROVED

mohammad
2/16/2021 10:44:51 AM



#72
 Anthracene
 Concen: 7.82 ng
 RT: 11.475 min Scan# 1596
 Delta R.T. -0.006 min
 Lab File: BF123210.D
 Acq: 15 Feb 2021 18:01

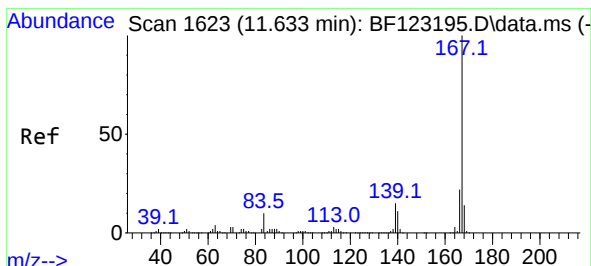
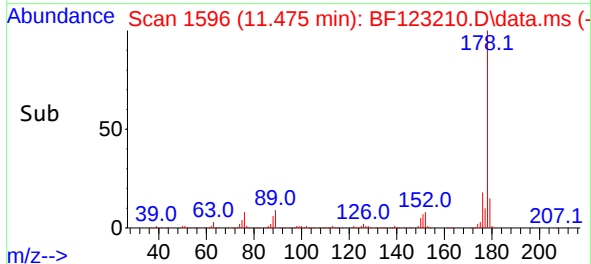
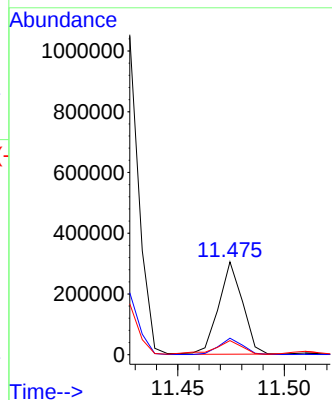
Instrument :
 BNA_F
 ClientSampled :
 BIN-2



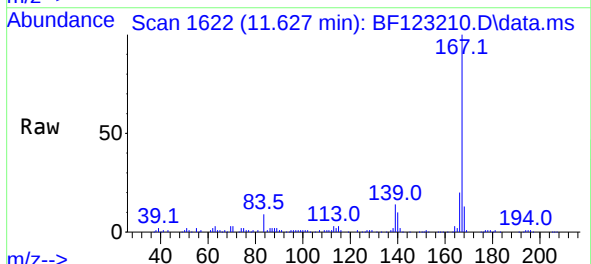
Tgt Ion:178 Resp: 236430
 Ion Ratio Lower Upper
 178 100
 176 17.7 15.6 23.4
 179 15.1 12.8 19.2

Manual Integrations
 APPROVED

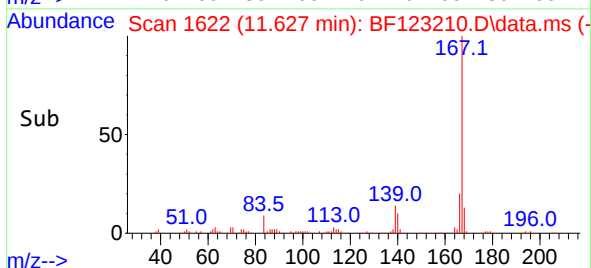
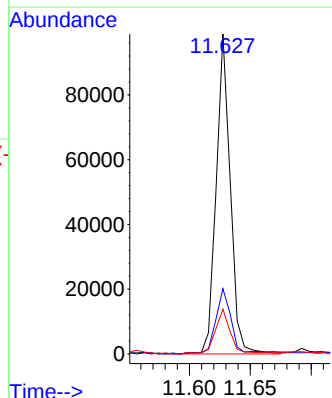
mohammad
 2/16/2021 10:44:51 AM

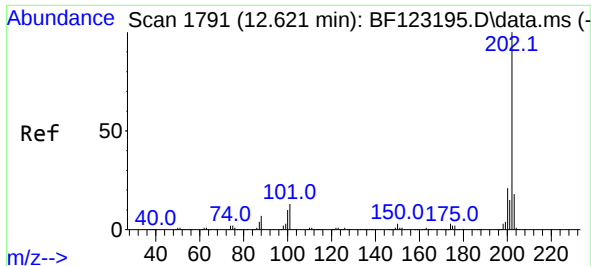


#73
 Carbazole
 Concen: 2.78 ng
 RT: 11.627 min Scan# 1622
 Delta R.T. -0.006 min
 Lab File: BF123210.D
 Acq: 15 Feb 2021 18:01

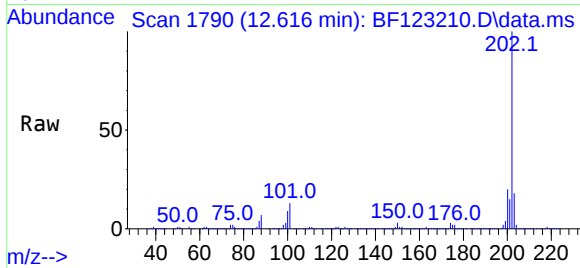


Tgt Ion:167 Resp: 80156
 Ion Ratio Lower Upper
 167 100
 166 20.4 18.0 27.0
 139 14.0 10.9 16.3

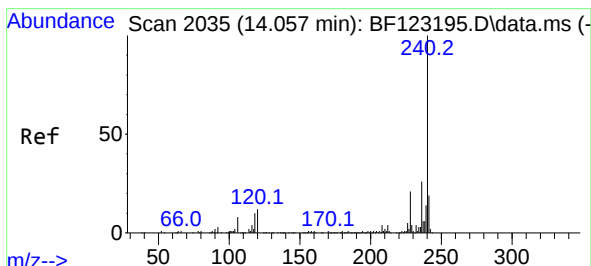
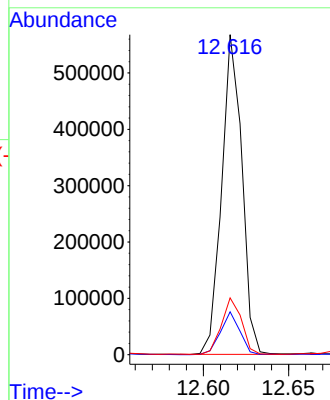
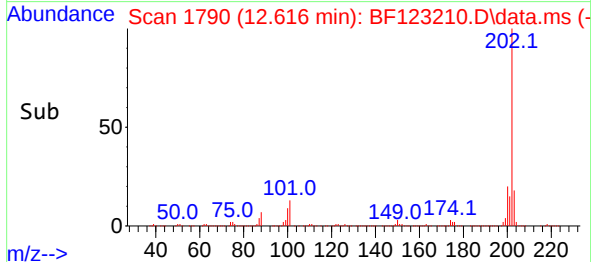




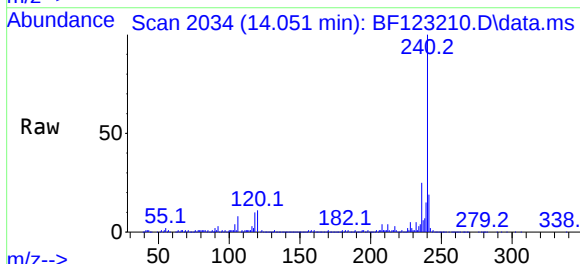
#75
Fluoranthene
Concen: 15.42 ng
RT: 12.616 min Scan# 1790
Delta R.T. -0.006 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01



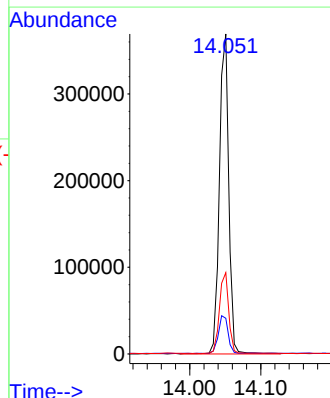
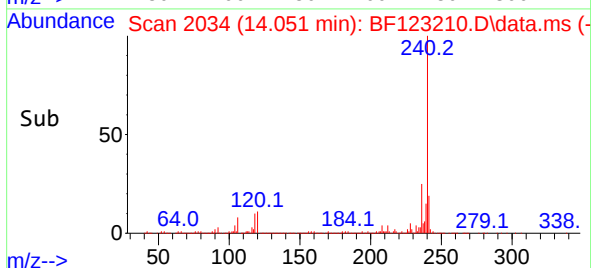
Tgt Ion:202 Resp: 468882
Ion Ratio Lower Upper
202 100
101 13.4 0.0 32.2
203 17.7 0.0 38.1



#76
Chrysene-d12
Concen: 20.00 ng
RT: 14.051 min Scan# 2034
Delta R.T. -0.006 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01



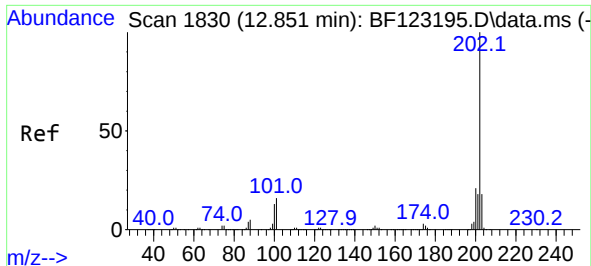
Tgt Ion:240 Resp: 334868
Ion Ratio Lower Upper
240 100
120 11.1 8.6 12.8
236 25.4 20.3 30.5



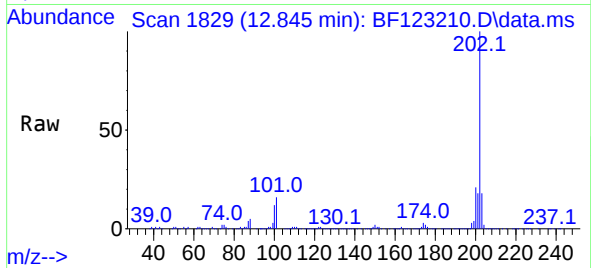
Instrument :
BNA_F
ClientSampleId :
BIN-2

Manual Integrations
APPROVED

mohammad
2/16/2021 10:44:51 AM



#78
Pyrene
Concen: 14.68 ng
RT: 12.845 min Scan# 1829
Delta R.T. -0.006 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01

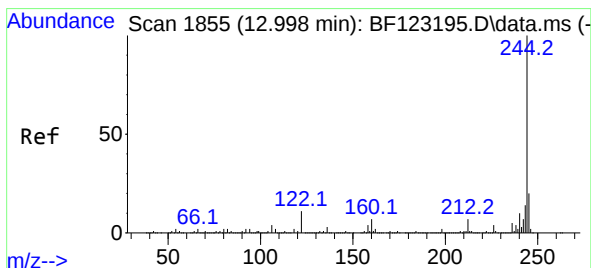
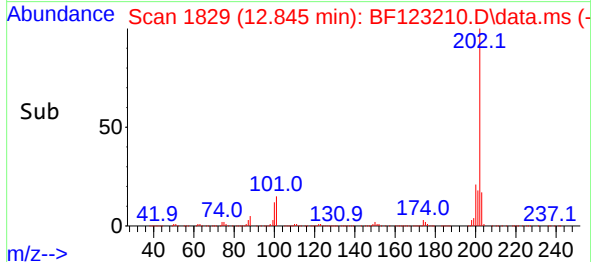
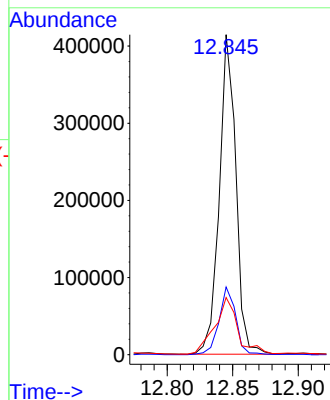


Tgt Ion:202 Resp: 363352
Ion Ratio Lower Upper
202 100
200 21.1 17.6 26.4
203 17.8 14.6 21.8

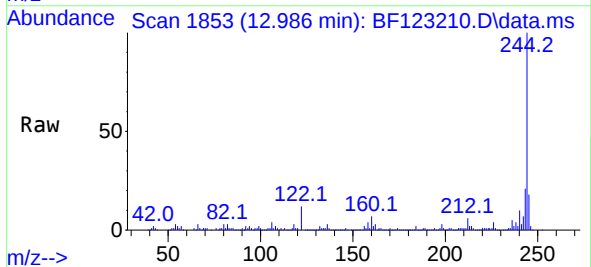
Instrument :
BNA_F
ClientSampleId :
BIN-2

Manual Integrations
APPROVED

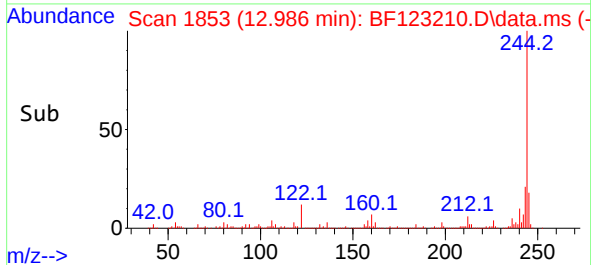
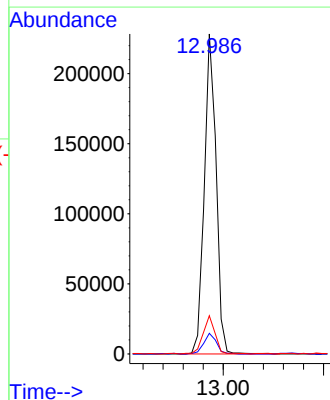
mohammad
2/16/2021 10:44:51 AM

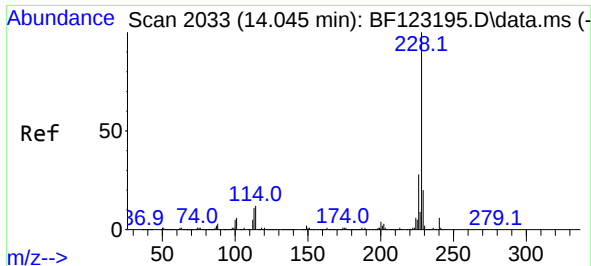


#79
Terphenyl-d14
Concen: 11.21 ng
RT: 12.986 min Scan# 1853
Delta R.T. -0.012 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01

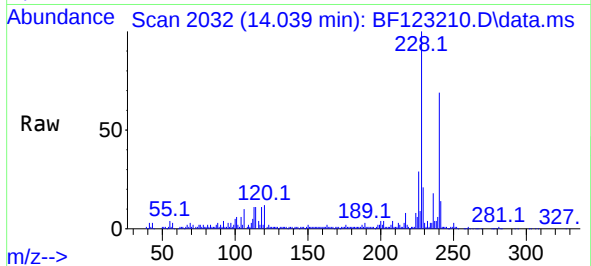


Tgt Ion:244 Resp: 187351
Ion Ratio Lower Upper
244 100
212 6.5 5.7 8.5
122 12.0 8.3 12.5

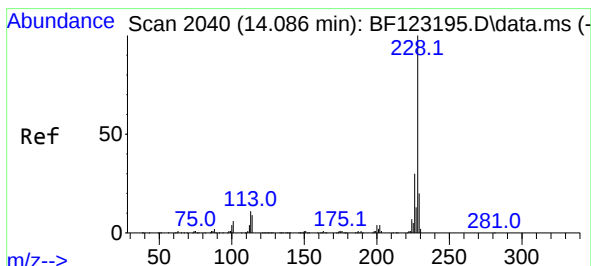
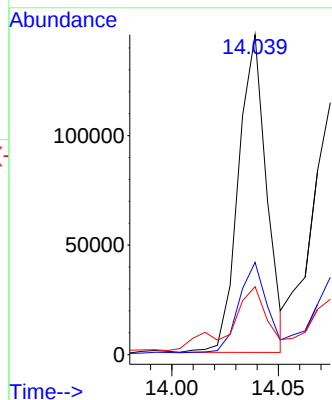
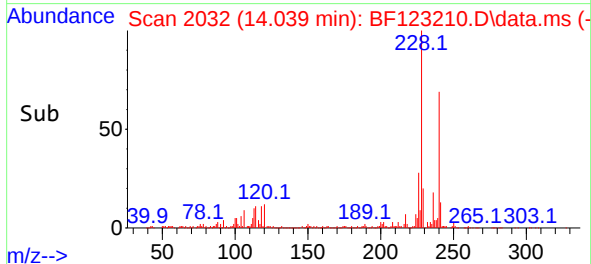




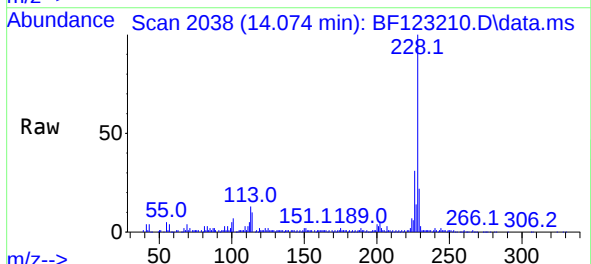
#81
Benzo(a)anthracene
Concen: 5.90 ng
RT: 14.039 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01



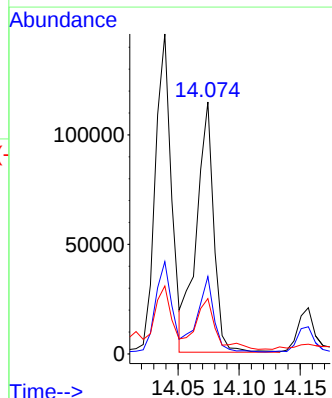
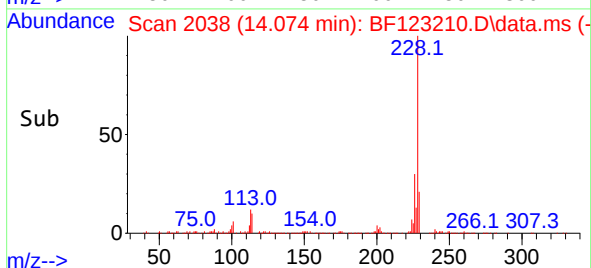
Tgt Ion:228 Resp: 133061
Ion Ratio Lower Upper
228 100
226 28.9 23.0 34.4
229 21.2 16.6 24.8



#83
Chrysene
Concen: 5.07 ng m
RT: 14.074 min Scan# 2038
Delta R.T. -0.012 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01



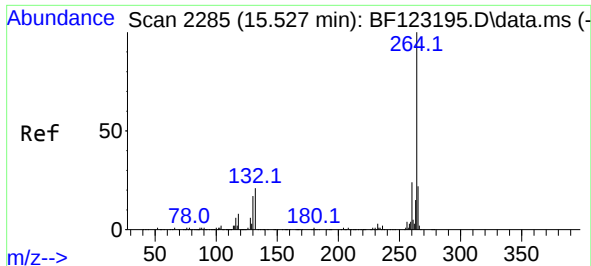
Tgt Ion:228 Resp: 112773
Ion Ratio Lower Upper
228 100
226 30.7 24.6 36.8
229 22.0 15.8 23.6



Instrument :
BNA_F
ClientSampleId :
BIN-2

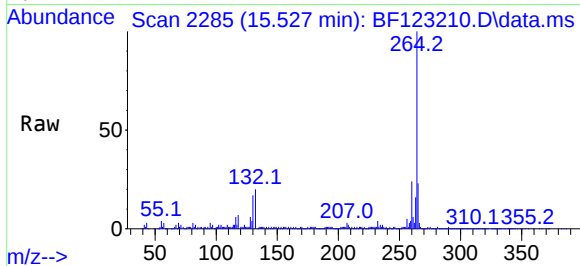
Manual Integrations
APPROVED

mohammad
2/16/2021 10:44:51 AM



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.527 min Scan# 2285
Delta R.T. 0.000 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01

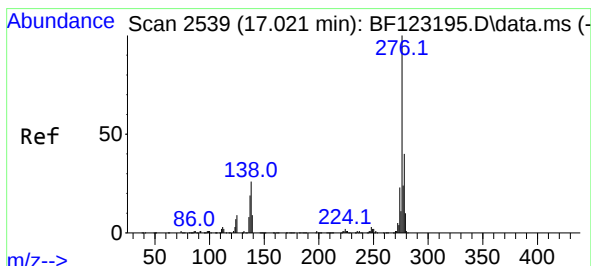
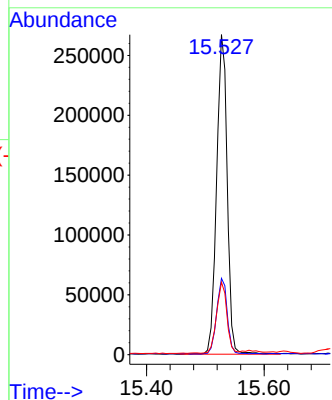
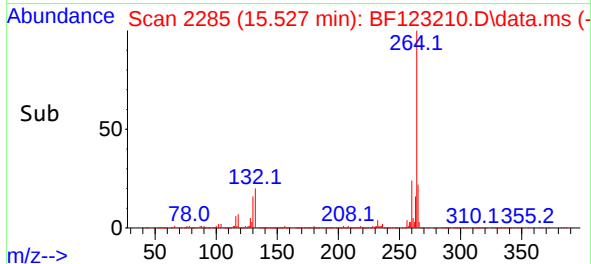
Instrument :
BNA_F
ClientSampled :
BIN-2



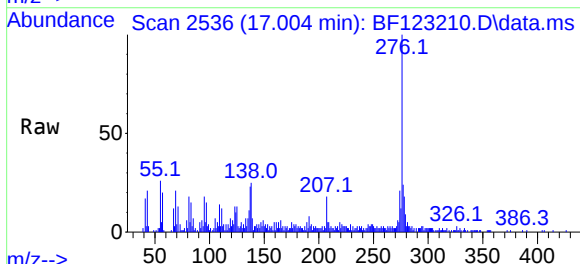
Tgt Ion:264 Resp: 333167
Ion Ratio Lower Upper
264 100
260 23.9 18.6 28.0
265 22.7 17.0 25.6

Manual Integrations
APPROVED

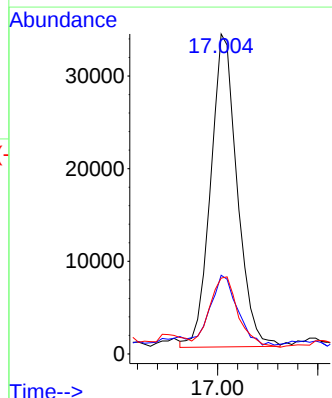
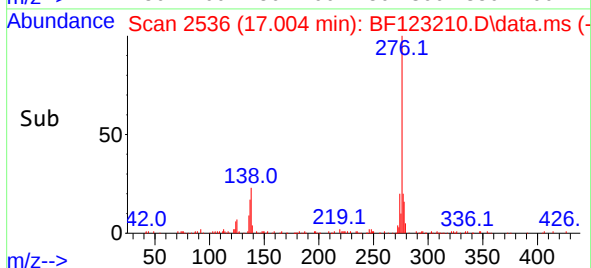
mohammad
2/16/2021 10:44:51 AM

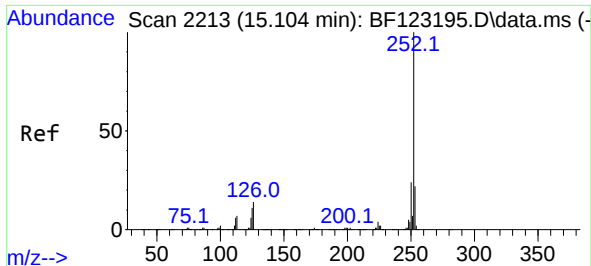


#87
Indeno(1,2,3-cd)pyrene
Concen: 2.71 ng
RT: 17.004 min Scan# 2536
Delta R.T. -0.018 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01



Tgt Ion:276 Resp: 61918
Ion Ratio Lower Upper
276 100
138 23.0 18.7 28.1
277 24.3 20.2 30.4





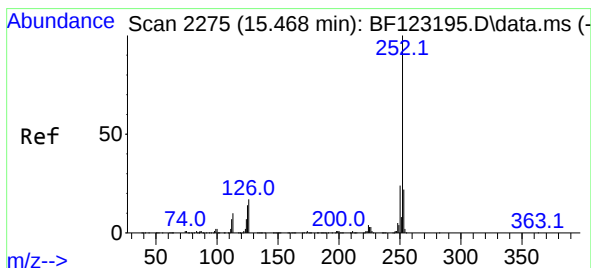
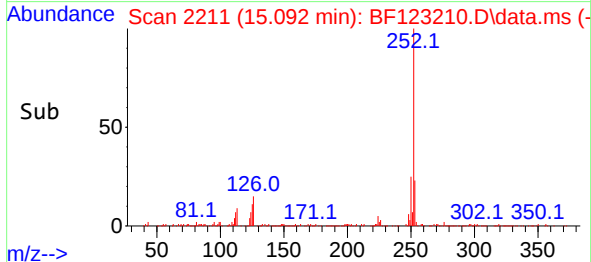
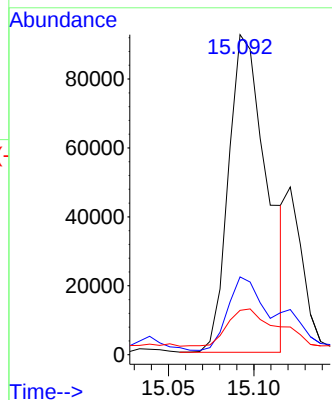
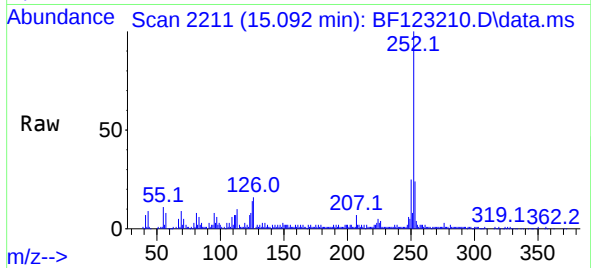
#88
Benzo(b)fluoranthene
Concen: 6.17 ng m
RT: 15.092 min Scan# 2211
Delta R.T. -0.012 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01

Tgt Ion:252 Resp: 144346
Ion Ratio Lower Upper
252 100
253 24.3 18.3 27.5
125 13.9 8.1 12.1#

Instrument :
BNA_F
ClientSampleId :
BIN-2

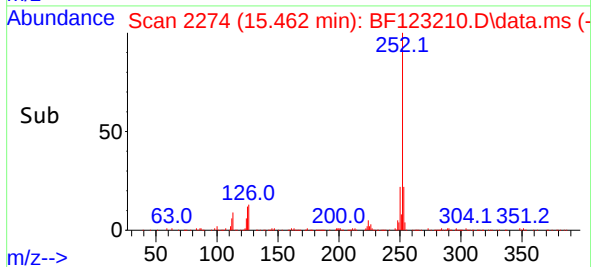
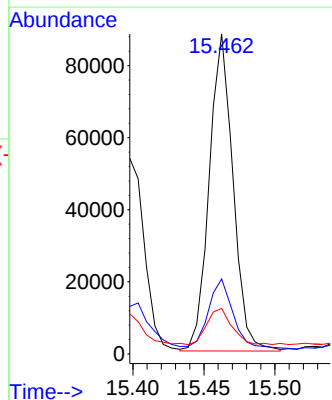
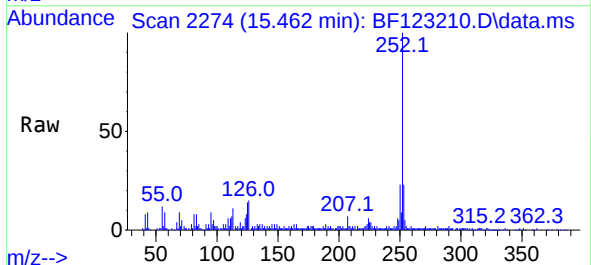
Manual Integrations
APPROVED

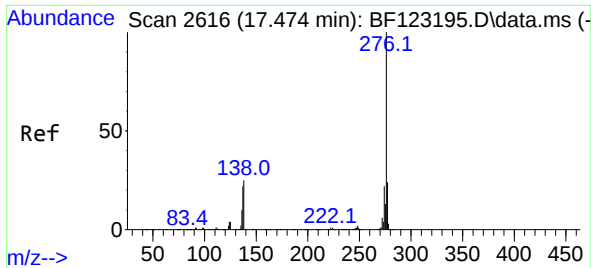
mohammad
2/16/2021 10:44:51 AM



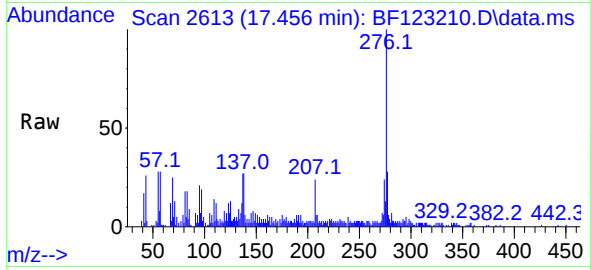
#90
Benzo(a)pyrene
Concen: 4.89 ng
RT: 15.462 min Scan# 2274
Delta R.T. -0.006 min
Lab File: BF123210.D
Acq: 15 Feb 2021 18:01

Tgt Ion:252 Resp: 102423
Ion Ratio Lower Upper
252 100
253 23.5 17.5 26.3
125 14.3 8.6 12.8#

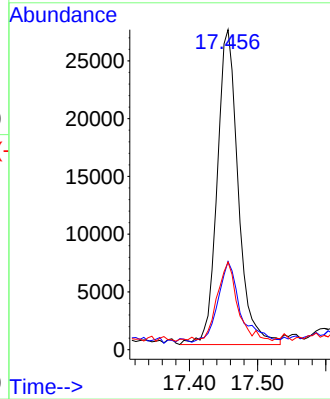
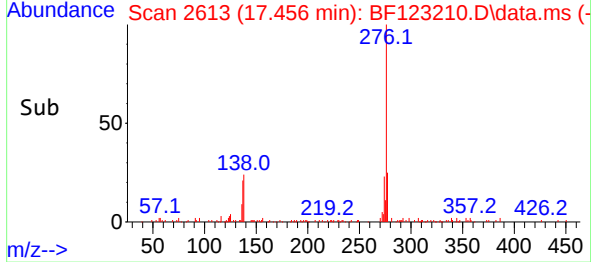




#92
 Benzo(g,h,i)perylene
 Concen: 3.11 ng
 RT: 17.456 min Scan# 2613
 Delta R.T. -0.018 min
 Lab File: BF123210.D
 Acq: 15 Feb 2021 18:01



Tgt Ion:	276	Resp:	58655
Ion Ratio	Lower	Upper	
276	100		
277	27.6	19.3	28.9
138	27.4	16.6	24.8



Instrument :
 BNA_F
 ClientSampleId :
 BIN-2

Manual Integrations
 APPROVED

mohammad
 2/16/2021 10:44:51 AM