

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103020\
 Data File : BF122196.D
 Acq On : 30 Oct 2020 23:25
 Operator : JU/CG
 Sample : L4564-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FK-GF-03-017-A

Manual Integrations
 APPROVED

mohammad
 11/2/2020 12:36:24 PM

Quant Time: Oct 31 03:00:41 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101220.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 30 10:16:54 2020
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.710	152	100537	20.00	ng	0.00
21) Naphthalene-d8	7.992	136	384272	20.00	ng	0.00
39) Acenaphthene-d10	9.745	164	184624	20.00	ng	0.00
64) Phenanthrene-d10	11.233	188	281461	20.00	ng	0.00
76) Chrysene-d12	13.880	240	193848	20.00	ng	0.00
86) Perylene-d12	15.321	264	204409	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.340	112	661564	97.12	ng	0.00
7) Phenol-d6	6.369	99	825521	94.14	ng	0.00
23) Nitrobenzene-d5	7.281	82	534086	71.28	ng	0.00
42) 2,4,6-Tribromophenol	10.539	330	198668	86.99	ng	0.00
45) 2-Fluorobiphenyl	9.069	172	889858	70.92	ng	0.00
79) Terphenyl-d14	12.816	244	638121	62.74	ng	0.00
Target Compounds						
10) Phenol	6.381	94	49454	5.46	ng	Qvalue 91
31) Naphthalene	8.016	128	111251	5.40	ng	99
35) Caprolactam	8.434	113	9206	4.92	ng	# 80
37) 2-Methylnaphthalene	8.710	142	61903	4.64	ng	98
38) 1-Methylnaphthalene	8.804	142	56807	4.60	ng	97
50) Dimethylphthalate	9.469	163	181840	13.47	ng	99
52) Acenaphthene	9.775	154	86955	8.15	ng	98
55) Dibenzofuran	9.951	168	151902	9.74	ng	99
58) Fluorene	10.292	166	153556	12.22	ng	99
71) Phenanthrene	11.263	178	1222854	79.24	ng	99
72) Anthracene	11.310	178	325836	20.36	ng	98
73) Carbazole	11.480	167	108504	7.62	ng	97
75) Fluoranthene	12.451	202	997884	60.30	ng	98
78) Pyrene	12.680	202	803415	54.39	ng	99
81) Benzo(a)anthracene	13.868	228	408155	32.13	ng	98
83) Chrysene	13.904	228	343164	27.52	ng	98
87) Indeno(1,2,3-cd)pyrene	16.739	276	180783	13.62	ng	# 94
88) Benzo(b)fluoranthene	14.910	252	447320m	32.37	ng	
89) Benzo(k)fluoranthene	14.933	252	133574m	10.18	ng	
90) Benzo(a)pyrene	15.262	252	313400	26.26	ng	97
91) Dibenzo(a,h)anthracene	16.733	278	46087	4.22	ng	# 88
92) Benzo(g,h,i)perylene	17.168	276	164128	15.01	ng	98

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

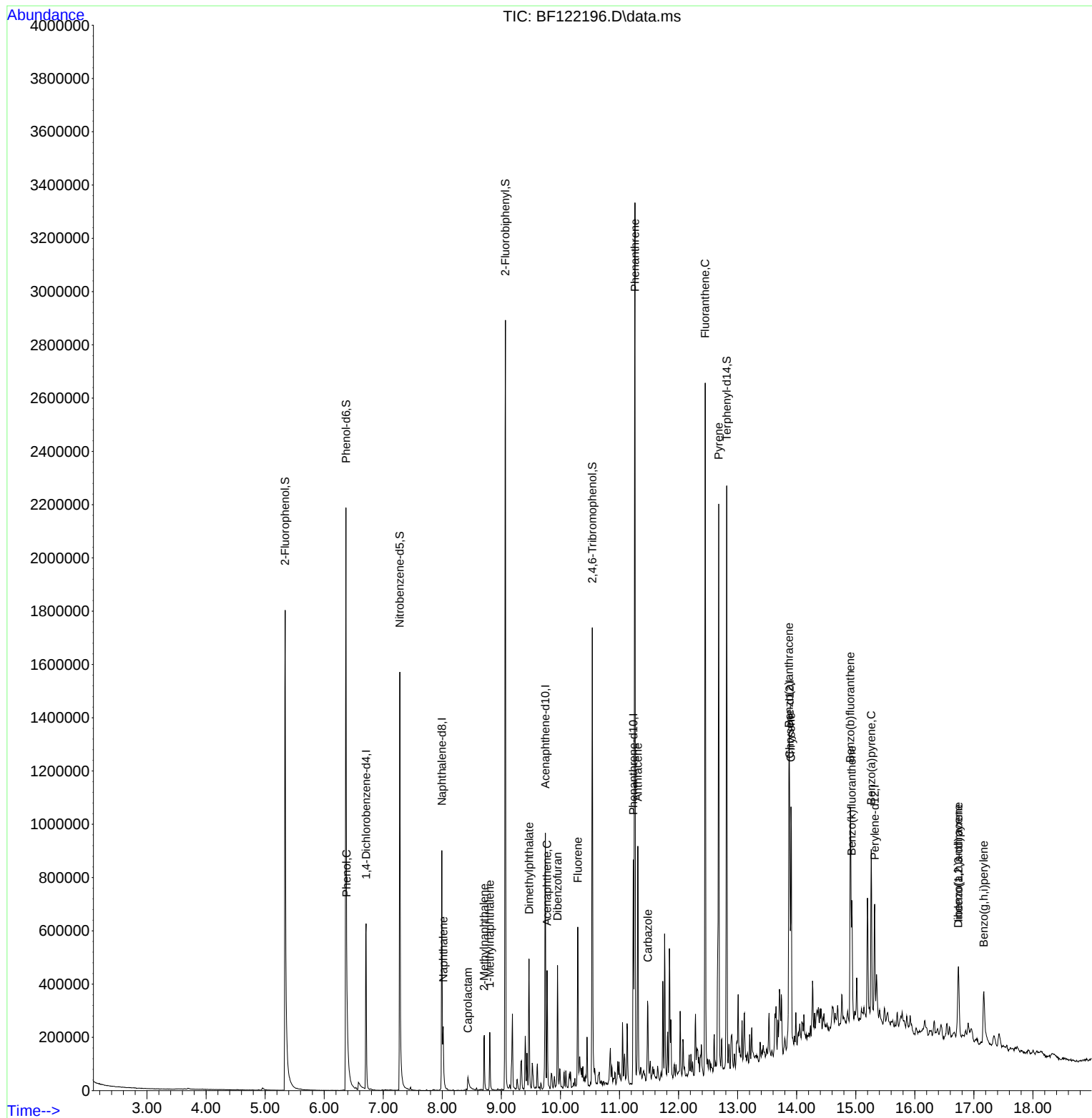
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103020\
Data File : BF122196.D
Acq On : 30 Oct 2020 23:25
Operator : JU/CG
Sample : L4564-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FK-GF-03-017-A

Manual Integrations
APPROVED

mohammad
11/2/2020 12:36:24 PM

Quant Time: Oct 31 03:00:41 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101220.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 30 10:16:54 2020
Response via : Initial Calibration





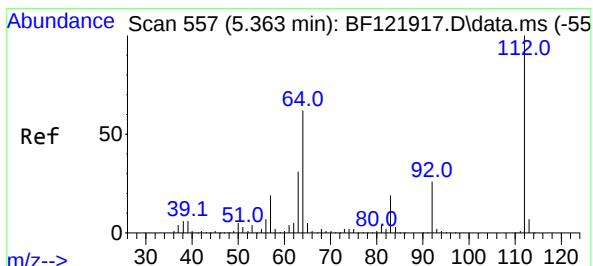
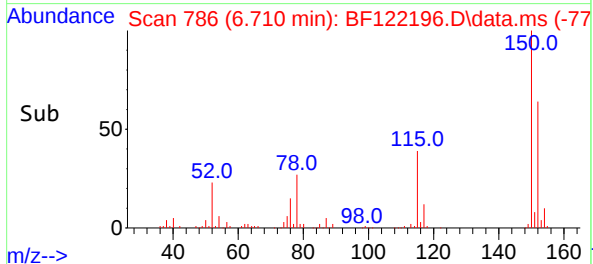
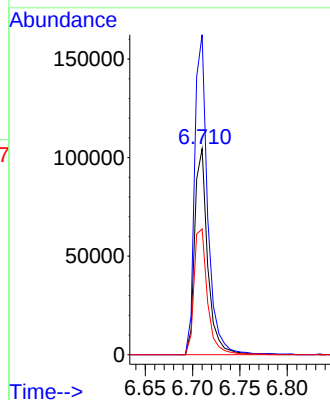
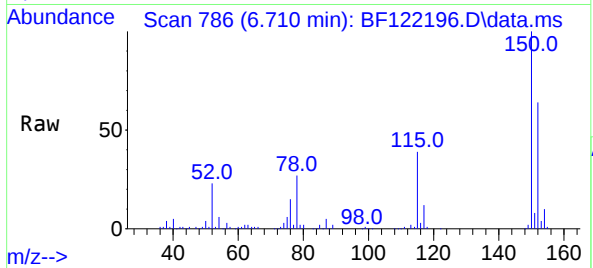
#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.710 min Scan# 786
Delta R.T. -0.006 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

Tgt Ion:152 Resp: 100537
Ion Ratio Lower Upper
152 100
150 155.2 125.3 187.9
115 61.0 51.9 77.9

Instrument :
BNA_F
ClientSampleId :
FK-GF-03-017-A

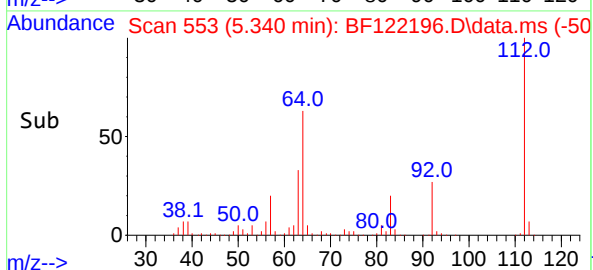
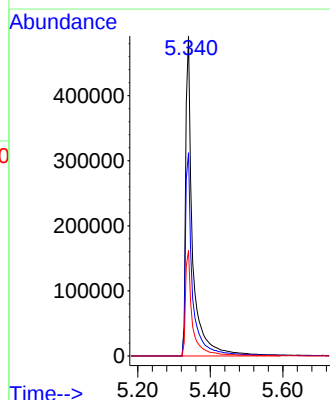
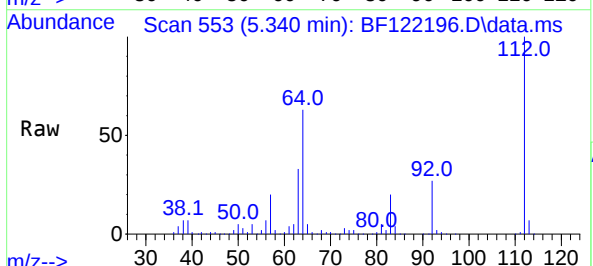
Manual Integrations
APPROVED

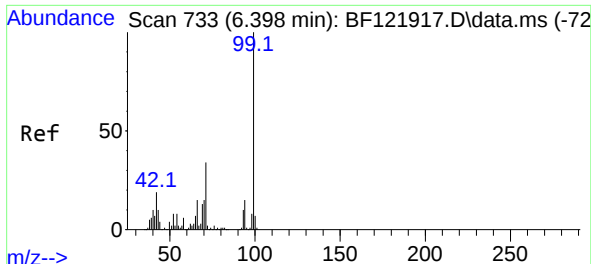
mohammad
11/2/2020 12:36:24 PM



#5
2-Fluorophenol
Concen: 97.12 ng
RT: 5.340 min Scan# 553
Delta R.T. 0.006 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

Tgt Ion:112 Resp: 661564
Ion Ratio Lower Upper
112 100
64 63.5 50.4 75.6
63 33.0 25.8 38.6





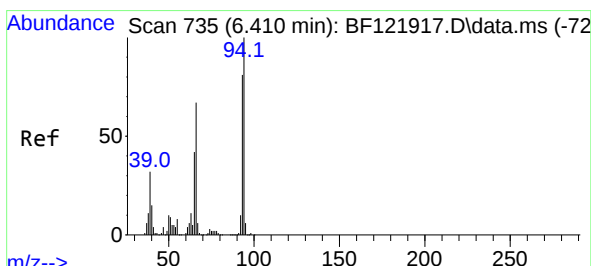
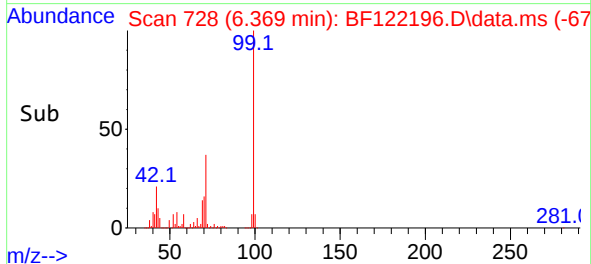
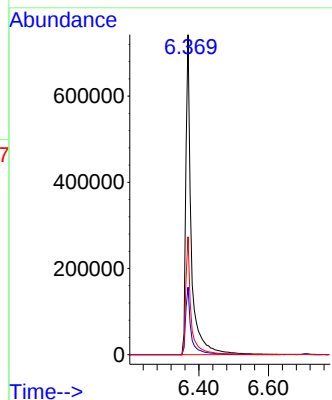
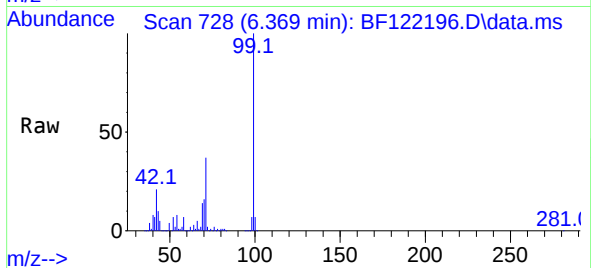
#7
Phenol-d6
Concen: 94.14 ng
RT: 6.369 min Scan# 728
Delta R.T. -0.000 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

Tgt Ion:	99	Resp:	825521
Ion	Ratio	Lower	Upper
99	100		
42	21.1	15.9	23.9
71	36.8	27.1	40.7

Instrument :
BNA_F
ClientSampleId :
FK-GF-03-017-A

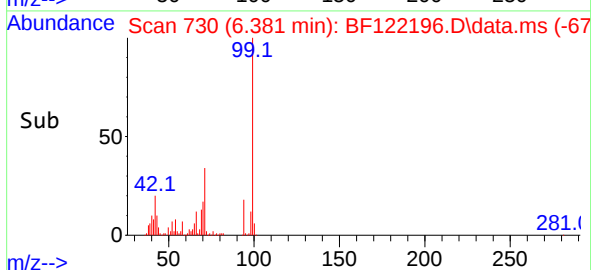
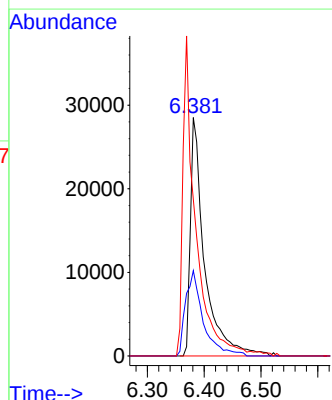
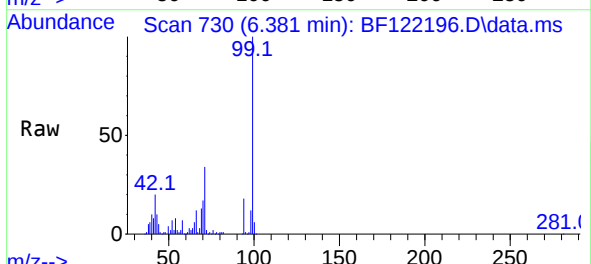
Manual Integrations
APPROVED

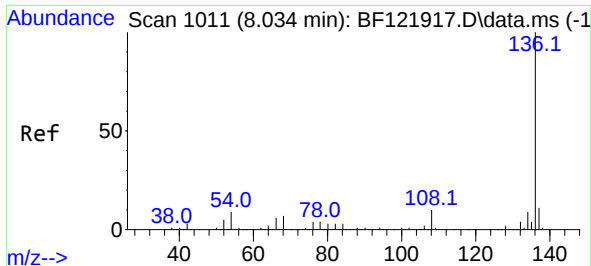
mohammad
11/2/2020 12:36:24 PM



#10
Phenol
Concen: 5.46 ng
RT: 6.381 min Scan# 730
Delta R.T. -0.000 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

Tgt Ion:	94	Resp:	49454
Ion	Ratio	Lower	Upper
94	100		
65	35.8	17.1	57.1
66	65.7	36.0	76.0





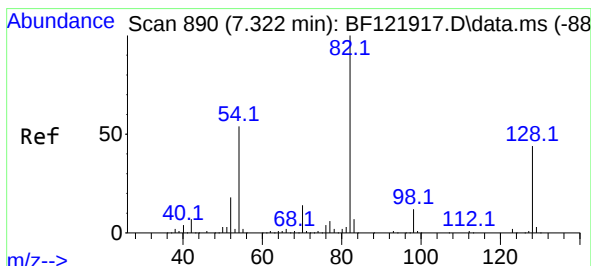
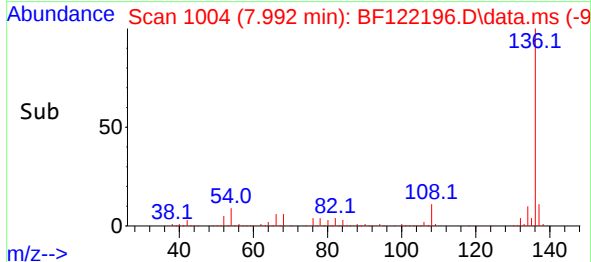
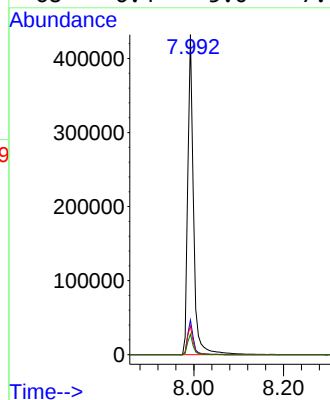
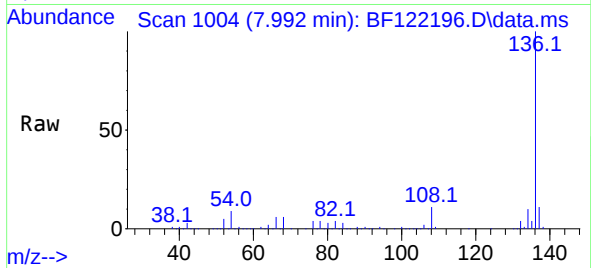
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.992 min Scan# 1004
Delta R.T. -0.006 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

Tgt Ion:	136	Resp:	384272
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	9.0	7.1	10.7
68	6.4	5.0	7.4

Instrument :
BNA_F
ClientSampleId :
FK-GF-03-017-A

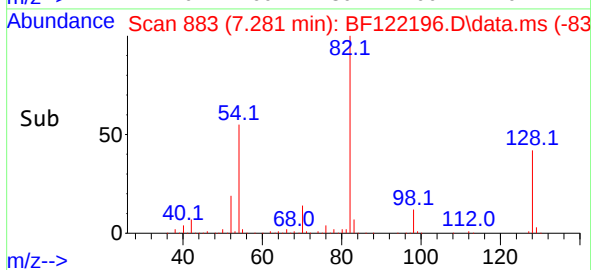
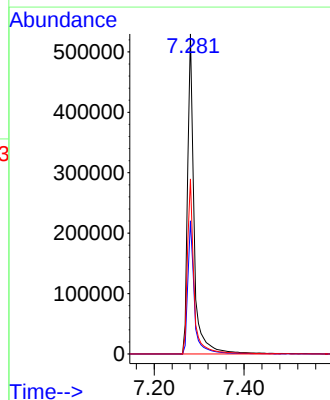
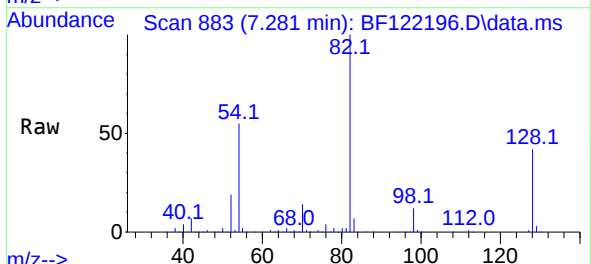
Manual Integrations
APPROVED

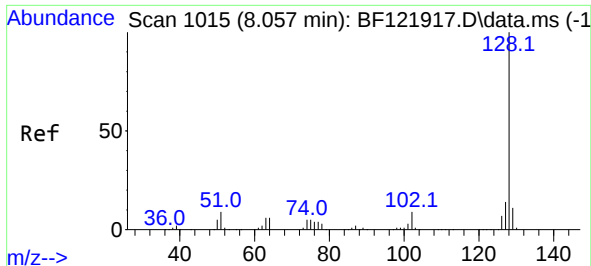
mohammad
11/2/2020 12:36:24 PM



#23
Nitrobenzene-d5
Concen: 71.28 ng
RT: 7.281 min Scan# 883
Delta R.T. -0.006 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

Tgt Ion:	82	Resp:	534086
Ion	Ratio	Lower	Upper
82	100		
128	41.6	35.0	52.4
54	54.7	43.9	65.9





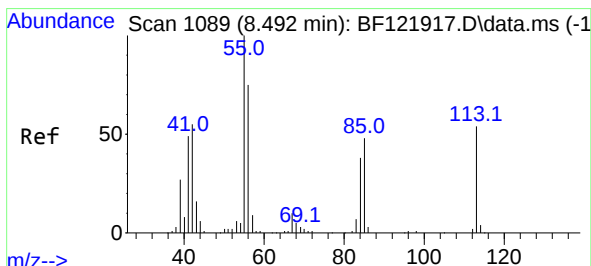
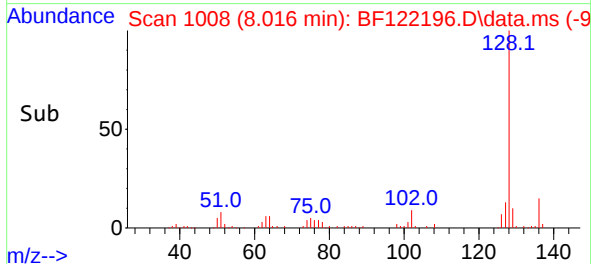
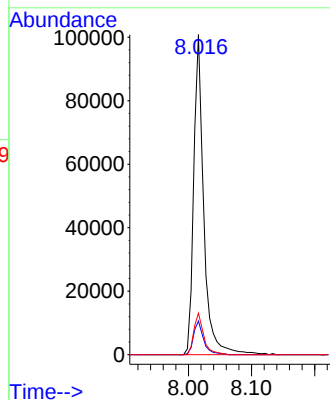
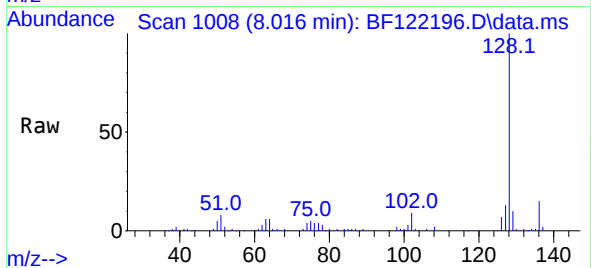
#31
Naphthalene
Concen: 5.40 ng
RT: 8.016 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

Tgt Ion:128 Resp: 111251
Ion Ratio Lower Upper
128 100
129 10.5 8.7 13.1
127 13.0 10.8 16.2

Instrument :
BNA_F
ClientSampleId :
FK-GF-03-017-A

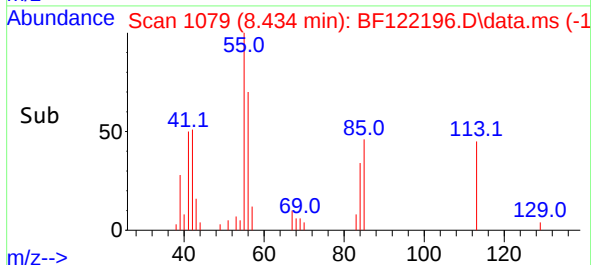
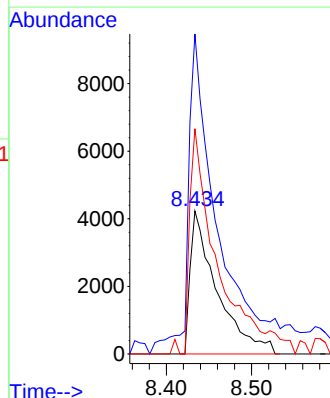
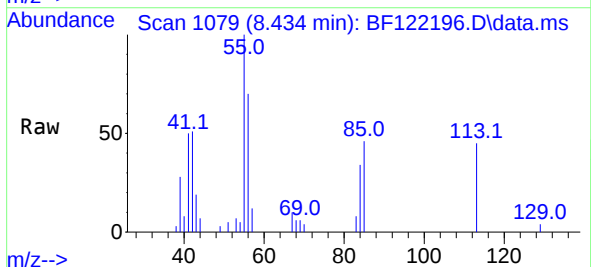
Manual Integrations
APPROVED

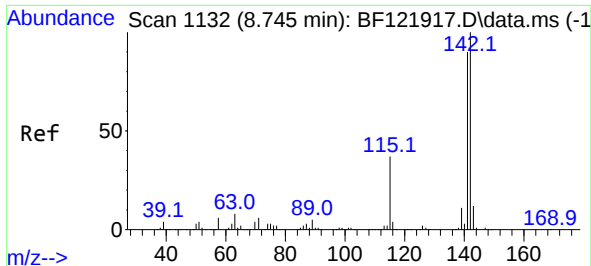
mohammad
11/2/2020 12:36:24 PM



#35
Caprolactam
Concen: 4.92 ng
RT: 8.434 min Scan# 1079
Delta R.T. -0.029 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

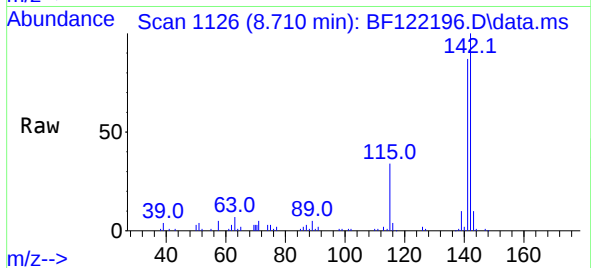
Tgt Ion:113 Resp: 9206
Ion Ratio Lower Upper
113 100
55 224.1 167.5 207.5#
56 157.8 121.2 161.2





#37
2-Methylnaphthalene
Concen: 4.64 ng
RT: 8.710 min Scan# 1126
Delta R.T. -0.000 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

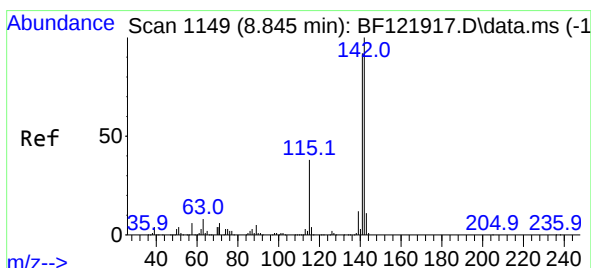
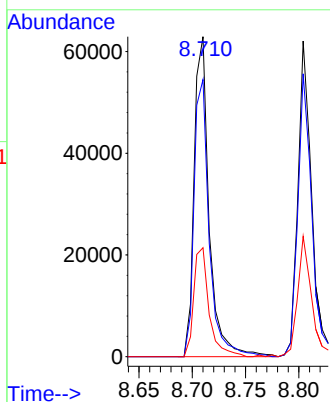
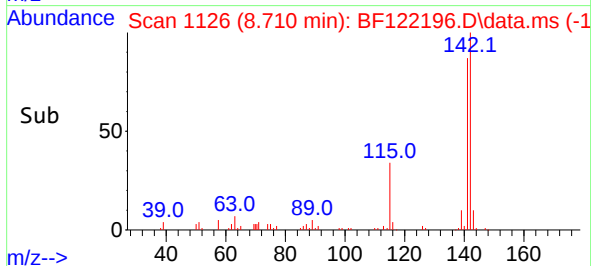
Instrument :
BNA_F
ClientSampleId :
FK-GF-03-017-A



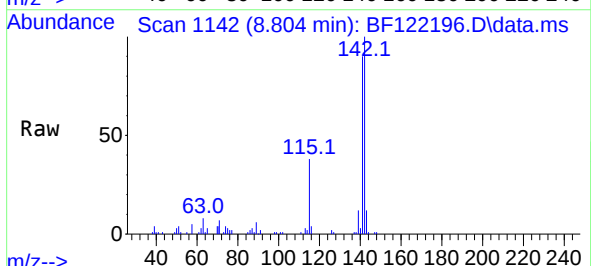
Tgt Ion:142 Resp: 61903
Ion Ratio Lower Upper
142 100
141 86.6 70.2 105.4
115 34.0 28.6 43.0

Manual Integrations
APPROVED

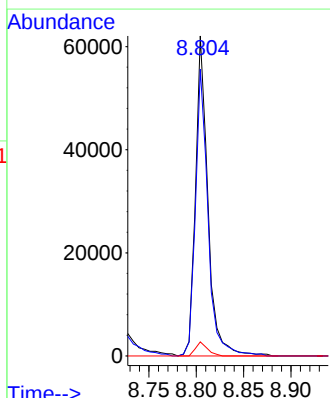
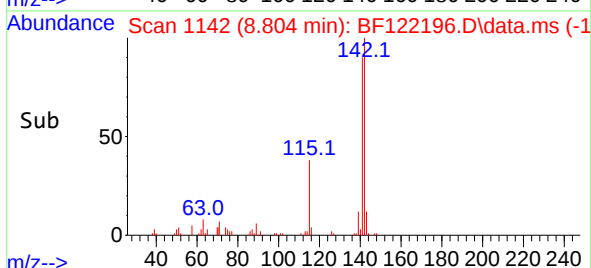
mohammad
11/2/2020 12:36:24 PM

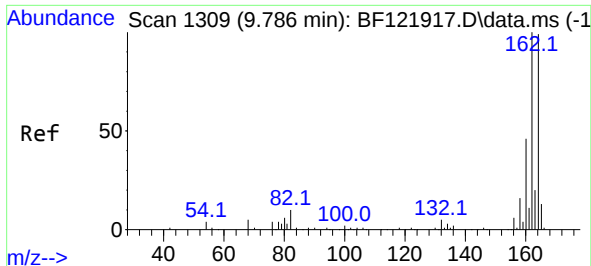


#38
1-Methylnaphthalene
Concen: 4.60 ng
RT: 8.804 min Scan# 1142
Delta R.T. -0.006 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25



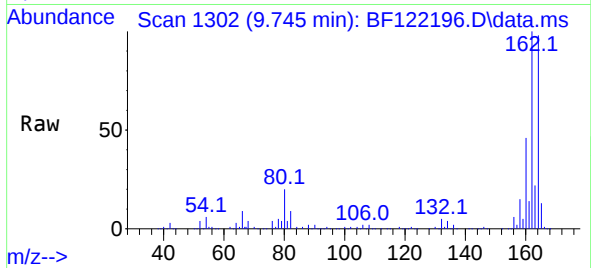
Tgt Ion:142 Resp: 56807
Ion Ratio Lower Upper
142 100
141 89.6 74.5 111.7
116 4.4 3.2 4.8





#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.745 min Scan# 1302
Delta R.T. -0.006 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

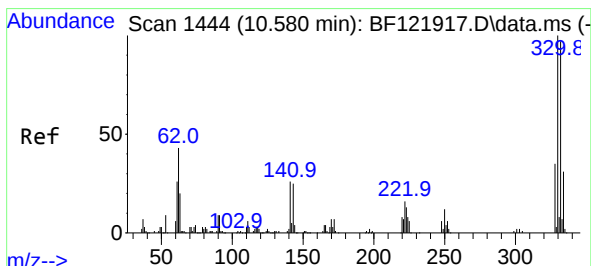
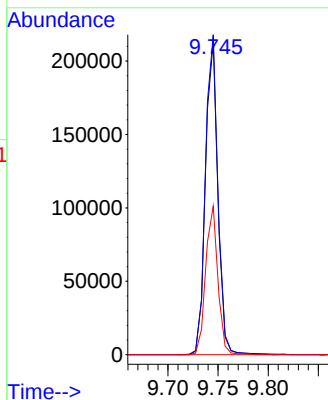
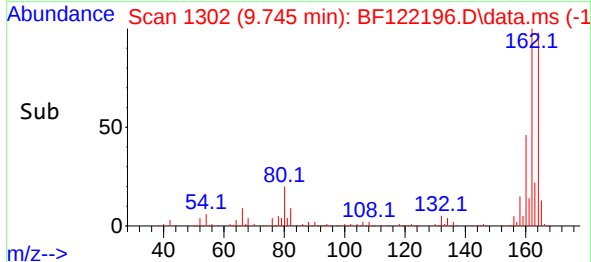
Instrument :
BNA_F
ClientSampleId :
FK-GF-03-017-A



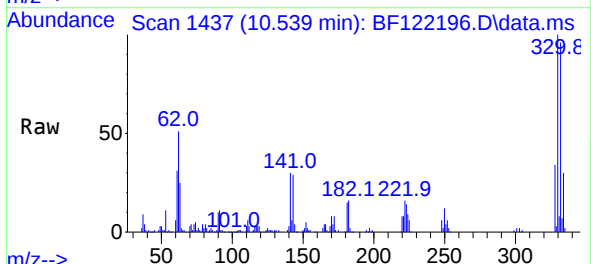
Tgt Ion:164 Resp: 184624
Ion Ratio Lower Upper
164 100
162 102.2 83.2 124.8
160 47.4 37.5 56.3

Manual Integrations
APPROVED

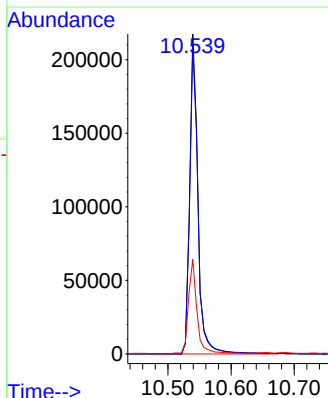
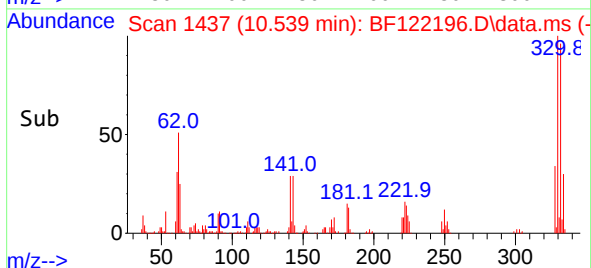
mohammad
11/2/2020 12:36:24 PM

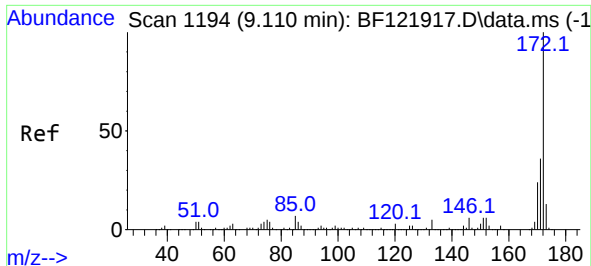


#42
2,4,6-Tribromophenol
Concen: 86.99 ng
RT: 10.539 min Scan# 1437
Delta R.T. -0.006 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25



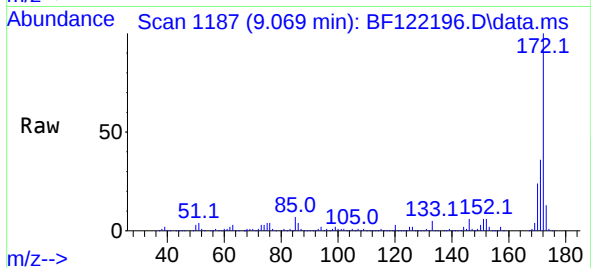
Tgt Ion:330 Resp: 198668
Ion Ratio Lower Upper
330 100
332 96.2 77.3 115.9
141 31.2 22.3 33.5





#45
2-Fluorobiphenyl
Concen: 70.92 ng
RT: 9.069 min Scan# 1187
Delta R.T. -0.006 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

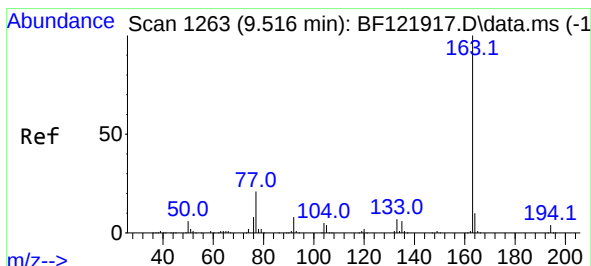
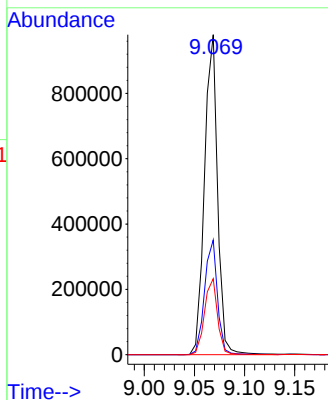
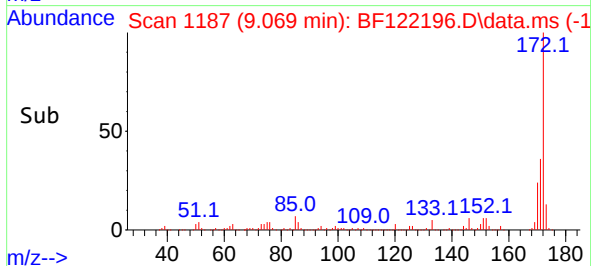
Instrument :
BNA_F
ClientSampleId :
FK-GF-03-017-A



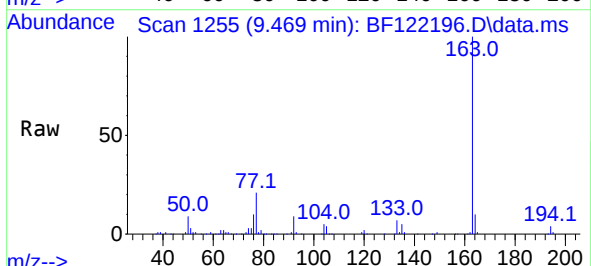
Tgt Ion:172 Resp: 889858
Ion Ratio Lower Upper
172 100
171 35.9 29.1 43.7
170 23.8 19.8 29.6

Manual Integrations
APPROVED

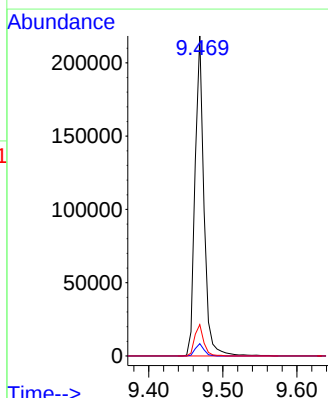
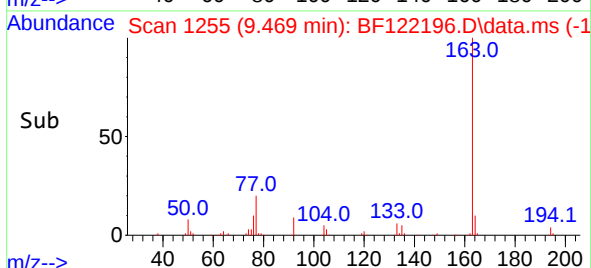
mohammad
11/2/2020 12:36:24 PM

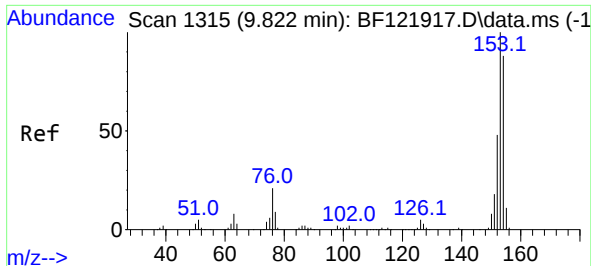


#50
Dimethylphthalate
Concen: 13.47 ng
RT: 9.469 min Scan# 1255
Delta R.T. -0.012 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

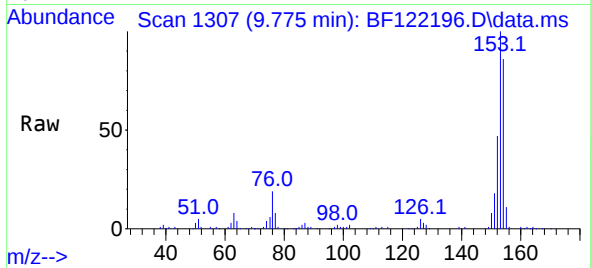


Tgt Ion:163 Resp: 181840
Ion Ratio Lower Upper
163 100
194 3.9 3.3 4.9
164 9.8 8.2 12.4

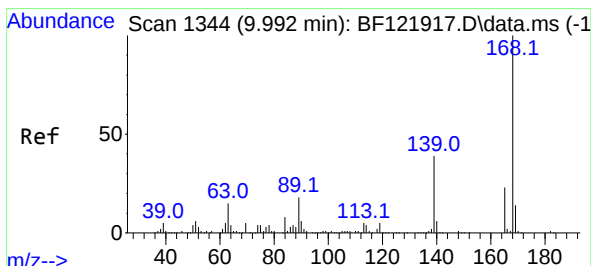
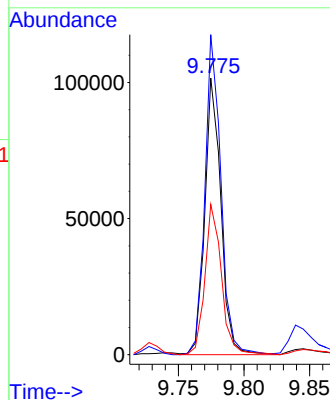
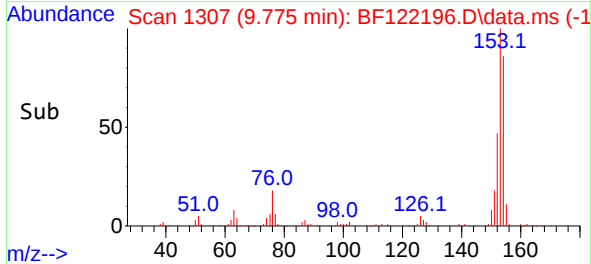




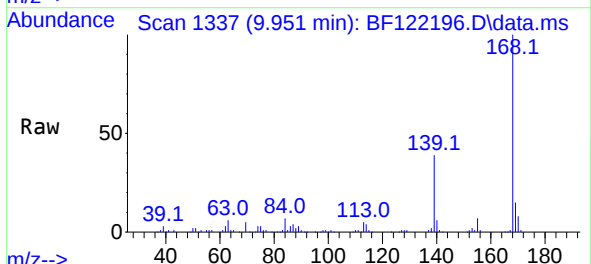
#52
Acenaphthene
Concen: 8.15 ng
RT: 9.775 min Scan# 1307
Delta R.T. -0.012 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25



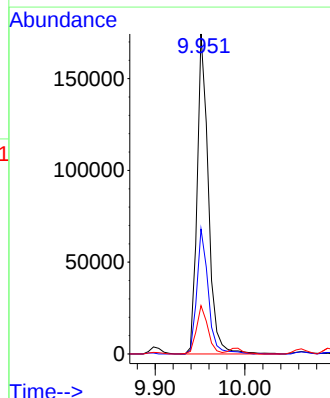
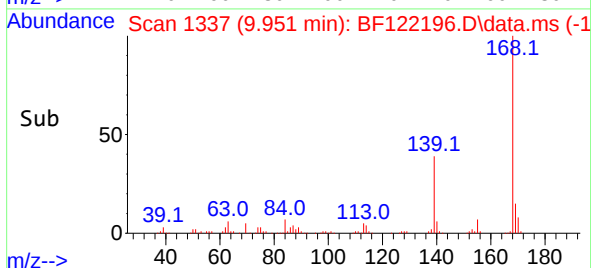
Tgt Ion:154 Resp: 86955
Ion Ratio Lower Upper
154 100
153 115.7 89.8 134.8
152 54.3 43.2 64.8



#55
Dibenzofuran
Concen: 9.74 ng
RT: 9.951 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25



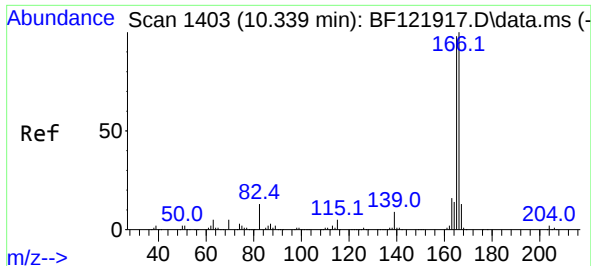
Tgt Ion:168 Resp: 151902
Ion Ratio Lower Upper
168 100
139 39.1 31.0 46.6
169 15.1 11.3 16.9



Instrument :
BNA_F
ClientSampleId :
FK-GF-03-017-A

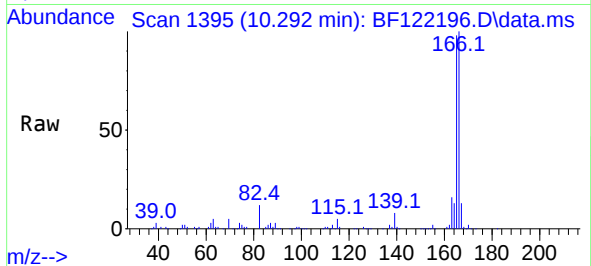
Manual Integrations
APPROVED

mohammad
11/2/2020 12:36:24 PM



#58
Fluorene
Concen: 12.22 ng
RT: 10.292 min Scan# 1395
Delta R.T. -0.006 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

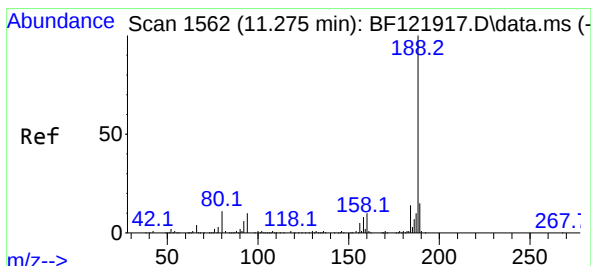
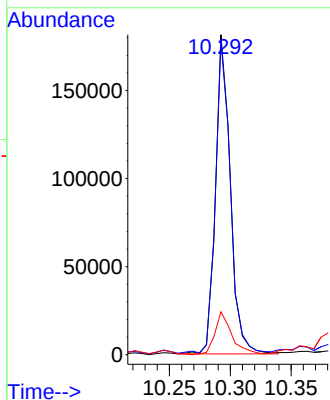
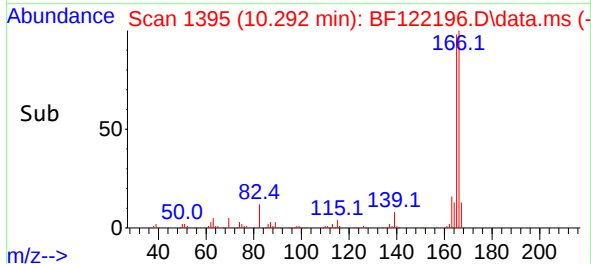
Instrument :
BNA_F
ClientSampleId :
FK-GF-03-017-A



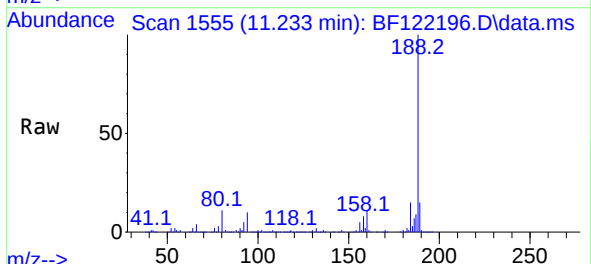
Tgt Ion:166 Resp: 153556
Ion Ratio Lower Upper
166 100
165 98.1 79.1 118.7
167 13.4 11.0 16.6

Manual Integrations
APPROVED

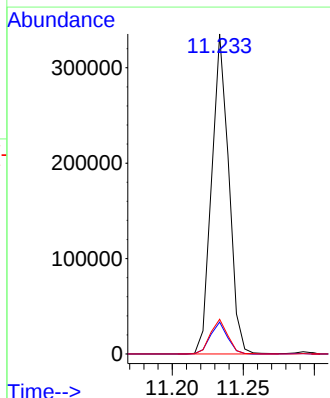
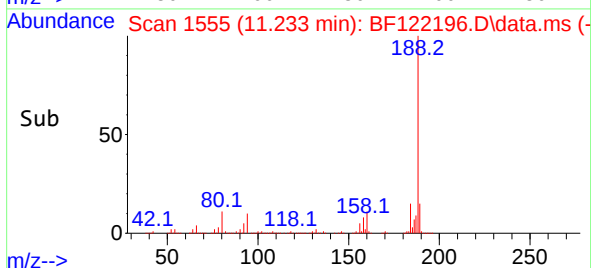
mohammad
11/2/2020 12:36:24 PM

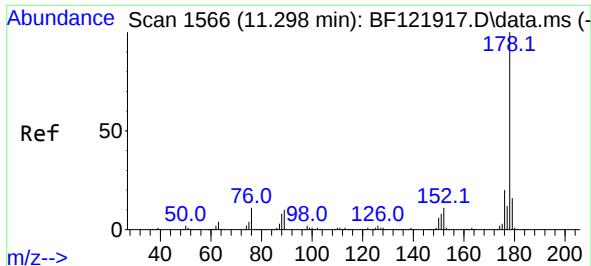


#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.233 min Scan# 1555
Delta R.T. -0.000 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25



Tgt Ion:188 Resp: 281461
Ion Ratio Lower Upper
188 100
94 10.0 8.3 12.5
80 10.9 9.1 13.7





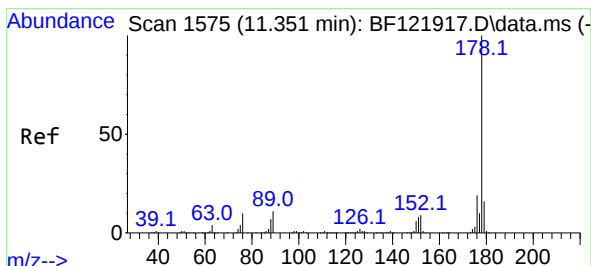
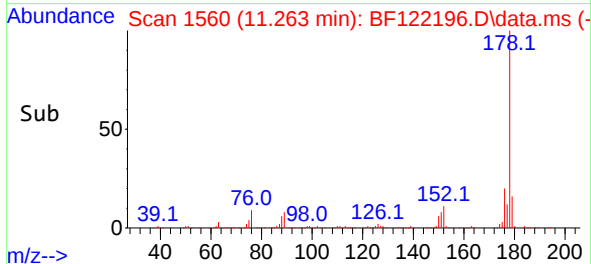
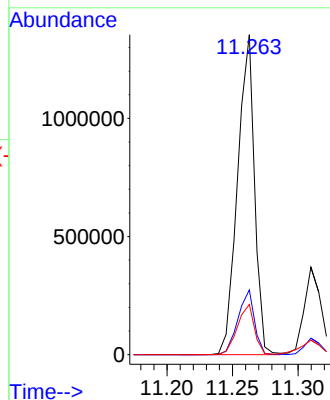
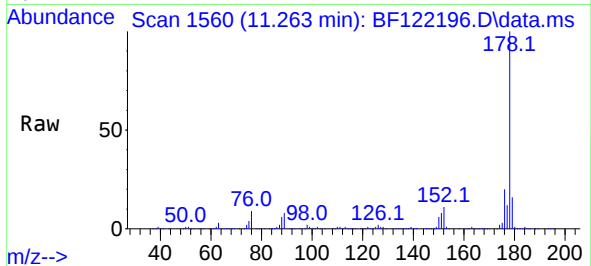
#71
Phenanthrene
Concen: 79.24 ng
RT: 11.263 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

Tgt Ion:178 Resp: 1222854
Ion Ratio Lower Upper
178 100
176 20.2 15.9 23.9
179 15.7 12.2 18.4

Instrument :
BNA_F
ClientSampleId :
FK-GF-03-017-A

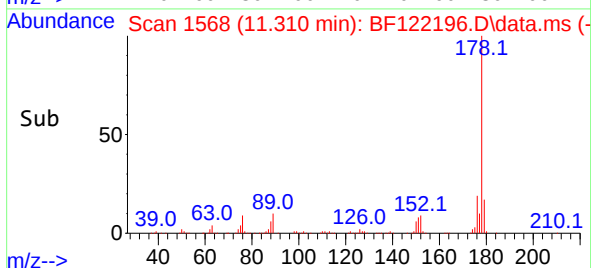
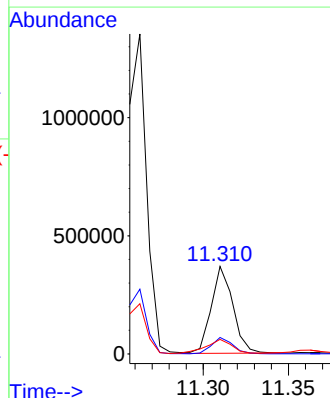
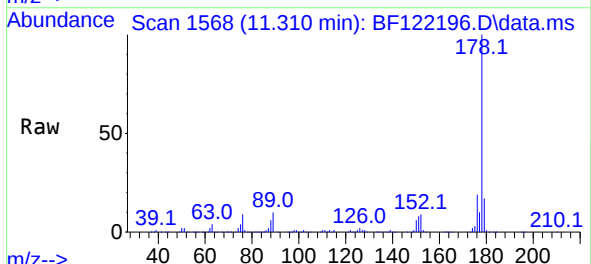
Manual Integrations
APPROVED

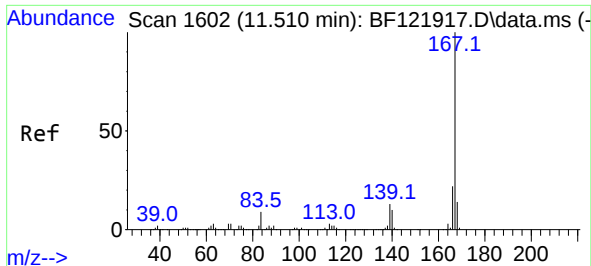
mohammad
11/2/2020 12:36:24 PM



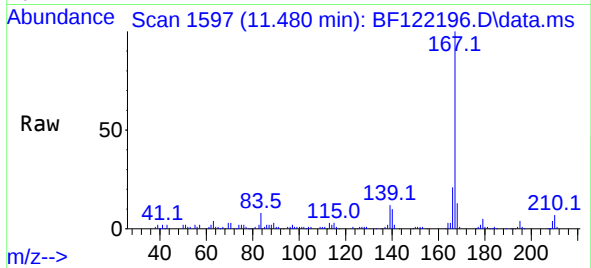
#72
Anthracene
Concen: 20.36 ng
RT: 11.310 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

Tgt Ion:178 Resp: 325836
Ion Ratio Lower Upper
178 100
176 18.8 15.7 23.5
179 16.6 12.7 19.1

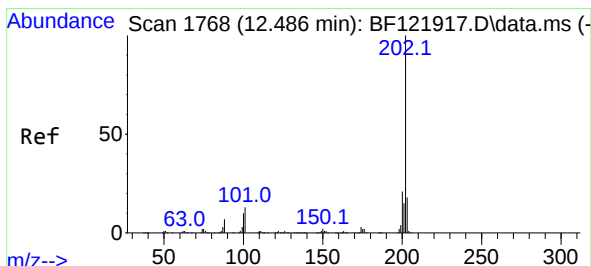
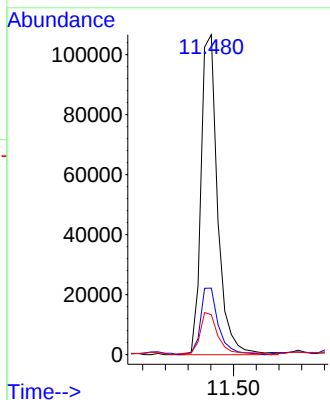
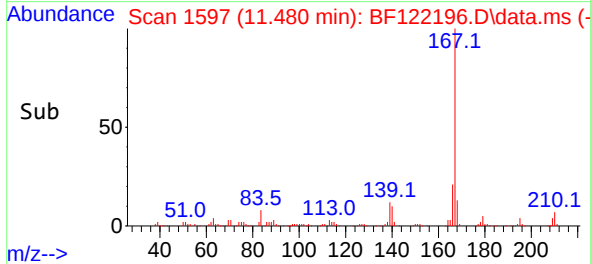




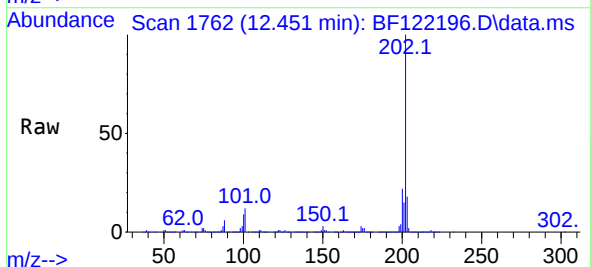
#73
 Carbazole
 Concen: 7.62 ng
 RT: 11.480 min Scan# 1597
 Delta R.T. 0.006 min
 Lab File: BF122196.D
 Acq: 30 Oct 2020 23:25



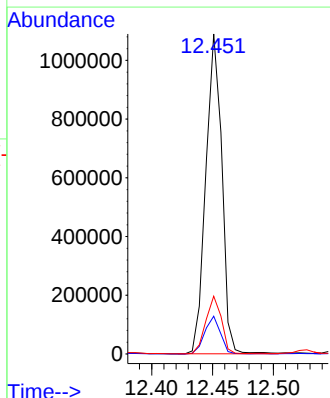
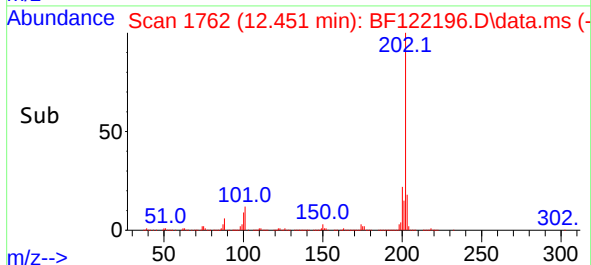
Tgt Ion:167 Resp: 108504
 Ion Ratio Lower Upper
 167 100
 166 20.8 17.8 26.6
 139 12.5 10.8 16.2



#75
 Fluoranthene
 Concen: 60.30 ng
 RT: 12.451 min Scan# 1762
 Delta R.T. -0.000 min
 Lab File: BF122196.D
 Acq: 30 Oct 2020 23:25



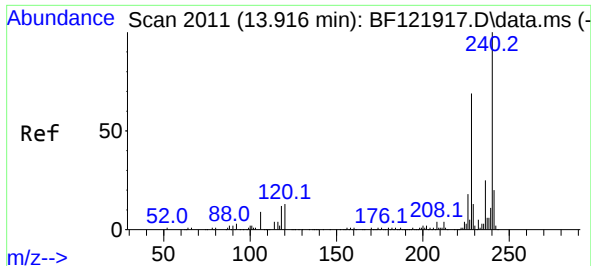
Tgt Ion:202 Resp: 997884
 Ion Ratio Lower Upper
 202 100
 101 11.8 0.0 33.4
 203 18.0 0.0 37.9



Instrument :
 BNA_F
 ClientSampleId :
 FK-GF-03-017-A

Manual Integrations
 APPROVED

mohammad
 11/2/2020 12:36:24 PM



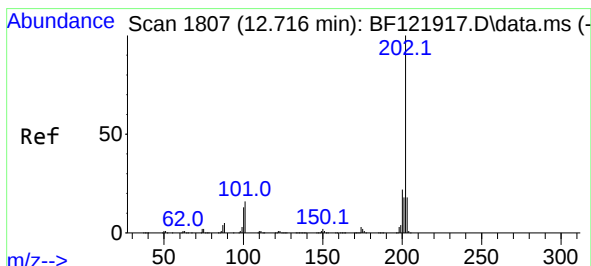
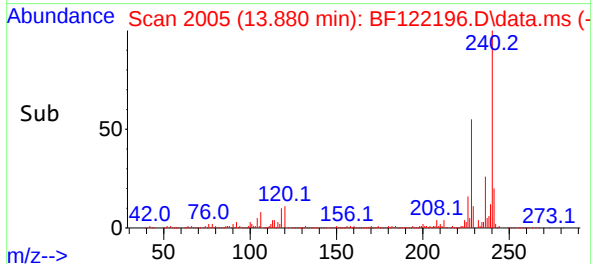
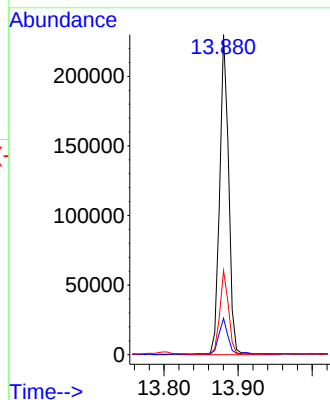
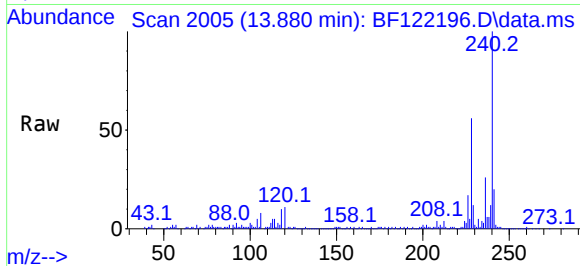
#76
Chrysene-d12
Concen: 20.00 ng
RT: 13.880 min Scan# 2005
Delta R.T. -0.000 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

Tgt Ion:240 Resp: 193848
Ion Ratio Lower Upper
240 100
120 11.3 9.2 13.8
236 26.2 20.9 31.3

Instrument :
BNA_F
ClientSampleId :
FK-GF-03-017-A

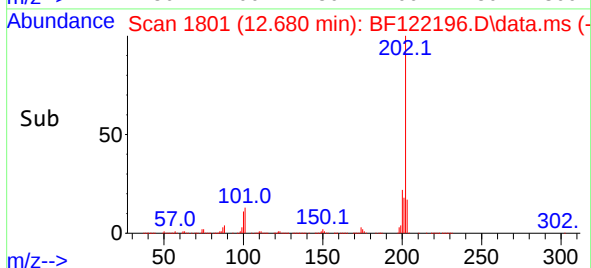
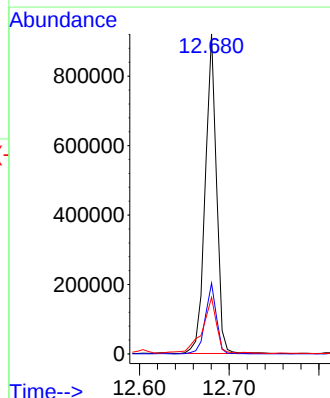
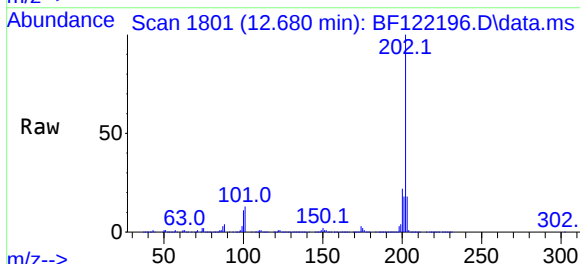
Manual Integrations
APPROVED

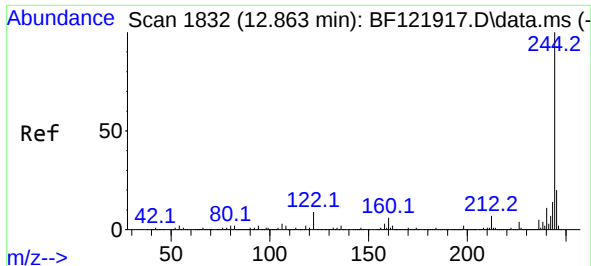
mohammad
11/2/2020 12:36:24 PM



#78
Pyrene
Concen: 54.39 ng
RT: 12.680 min Scan# 1801
Delta R.T. -0.000 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

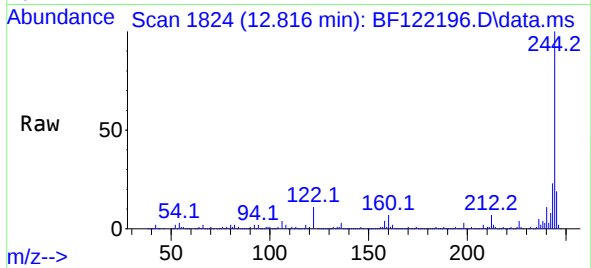
Tgt Ion:202 Resp: 803415
Ion Ratio Lower Upper
202 100
200 22.1 17.4 26.2
203 17.7 14.6 21.8





#79
Terphenyl-d14
Concen: 62.74 ng
RT: 12.816 min Scan# 1824
Delta R.T. -0.000 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

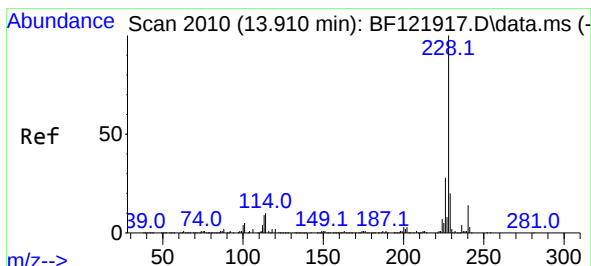
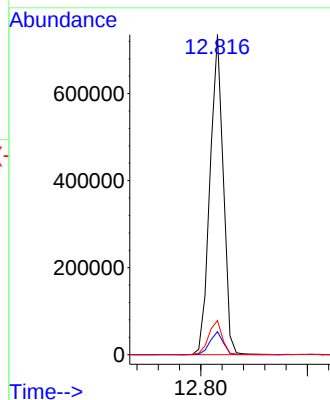
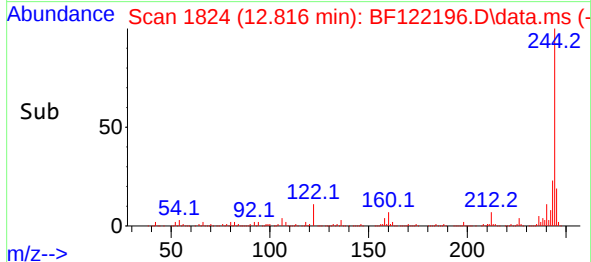
Instrument :
BNA_F
ClientSampleId :
FK-GF-03-017-A



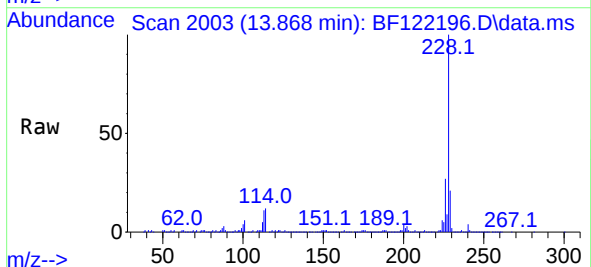
Tgt Ion:244 Resp: 638121
Ion Ratio Lower Upper
244 100
212 7.2 5.4 8.2
122 10.6 8.1 12.1

Manual Integrations
APPROVED

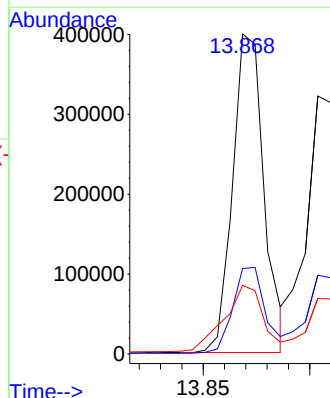
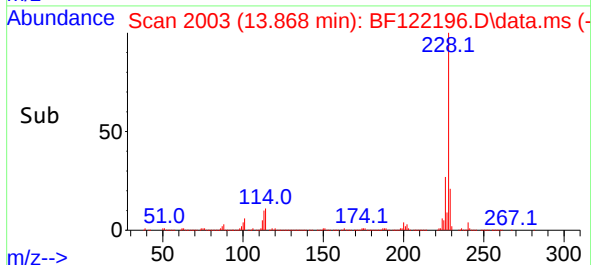
mohammad
11/2/2020 12:36:24 PM

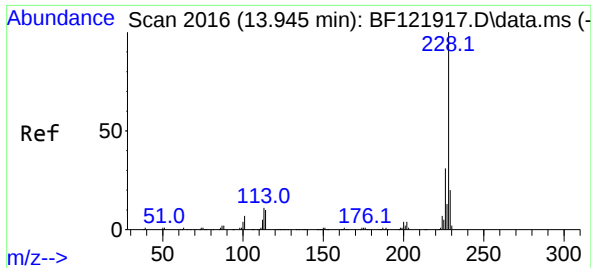


#81
Benzo(a)anthracene
Concen: 32.13 ng
RT: 13.868 min Scan# 2003
Delta R.T. -0.000 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25



Tgt Ion:228 Resp: 408155
Ion Ratio Lower Upper
228 100
226 26.7 22.3 33.5
229 21.4 16.2 24.4





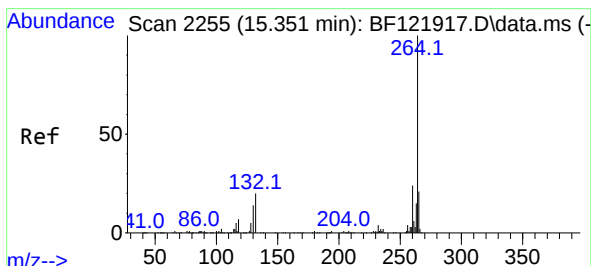
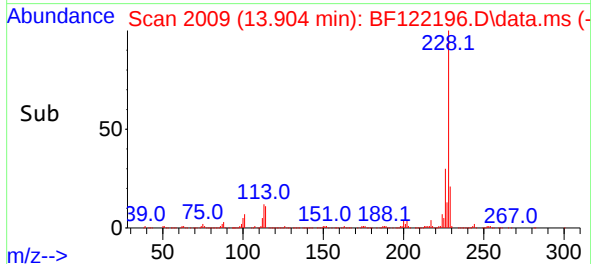
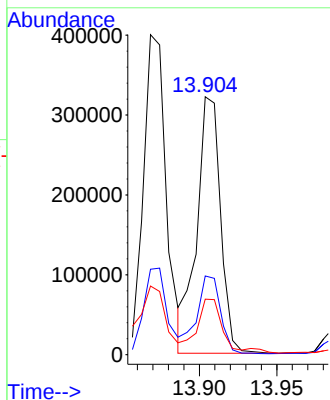
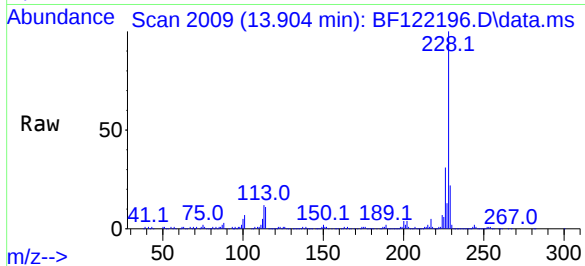
#83
Chrysene
Concen: 27.52 ng
RT: 13.904 min Scan# 2009
Delta R.T. -0.000 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

Instrument :
BNA_F
ClientSampleId :
FK-GF-03-017-A

Tgt Ion:228 Resp: 343164
Ion Ratio Lower Upper
228 100
226 30.5 24.6 37.0
229 21.5 15.9 23.9

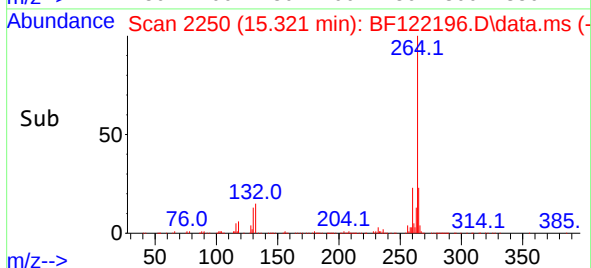
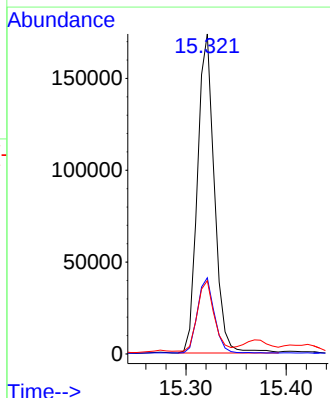
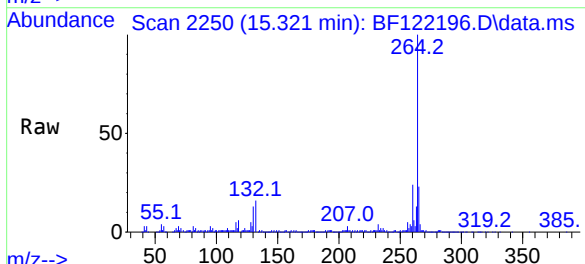
Manual Integrations
APPROVED

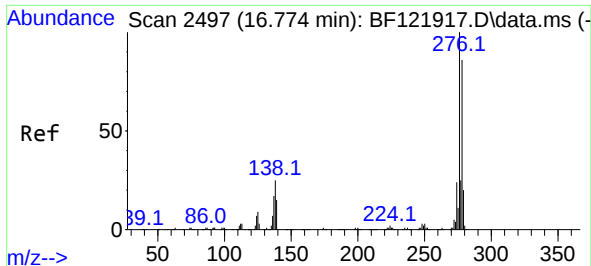
mohammad
11/2/2020 12:36:24 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.321 min Scan# 2250
Delta R.T. 0.018 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

Tgt Ion:264 Resp: 204409
Ion Ratio Lower Upper
264 100
260 23.8 18.7 28.1
265 22.9 17.3 25.9





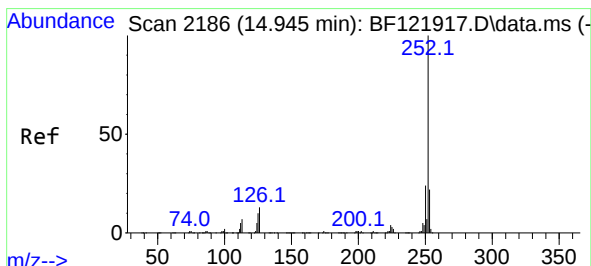
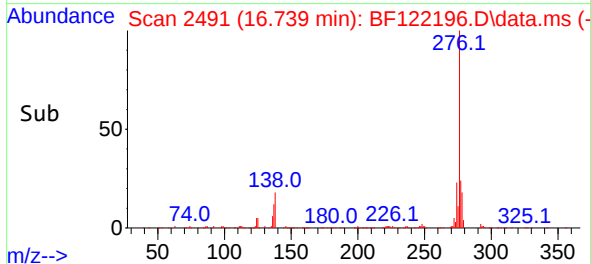
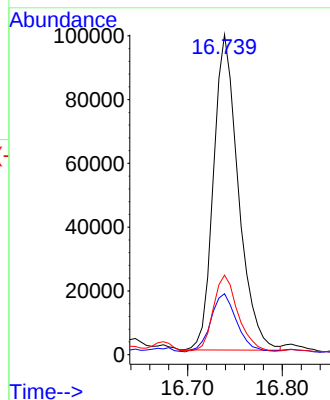
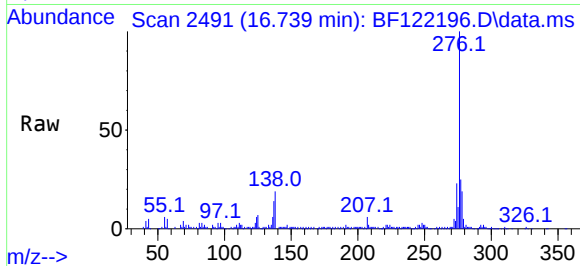
#87
Indeno(1,2,3-cd)pyrene
Concen: 13.62 ng
RT: 16.739 min Scan# 2491
Delta R.T. 0.024 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

Tgt Ion: 276 Resp: 180783
Ion Ratio Lower Upper
276 100
138 19.9 19.9 29.9#
277 24.1 20.4 30.6

Instrument :
BNA_F
ClientSampleId :
FK-GF-03-017-A

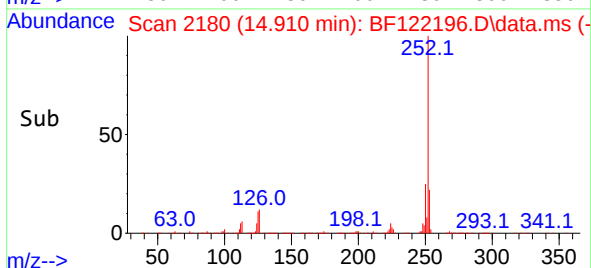
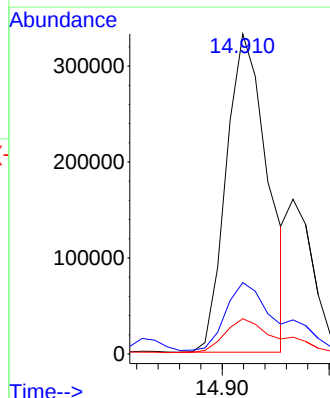
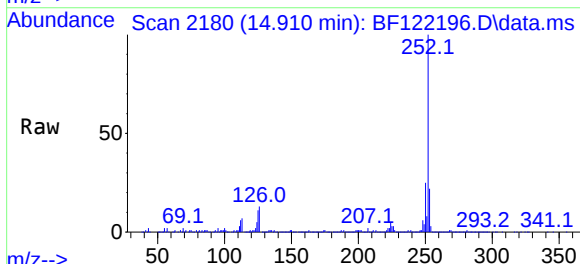
Manual Integrations
APPROVED

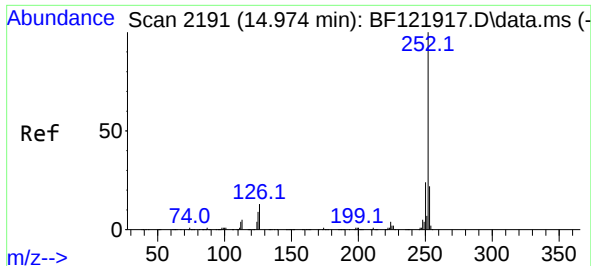
mohammad
11/2/2020 12:36:24 PM



#88
Benzo(b)fluoranthene
Concen: 32.37 ng m
RT: 14.910 min Scan# 2180
Delta R.T. 0.012 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

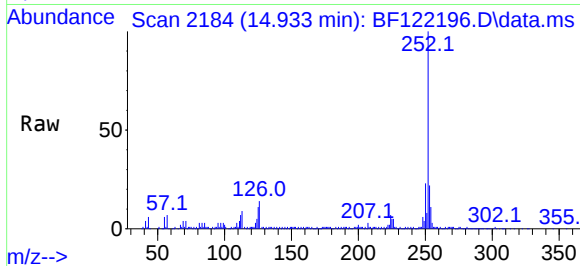
Tgt Ion: 252 Resp: 447320
Ion Ratio Lower Upper
252 100
253 22.3 18.2 27.2
125 11.0 8.0 12.0





#89
Benzo(k)fluoranthene
Concen: 10.18 ng m
RT: 14.933 min Scan# 2184
Delta R.T. 0.006 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

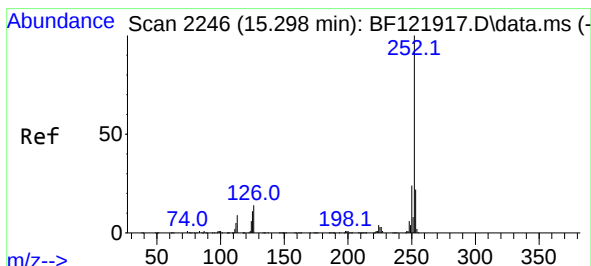
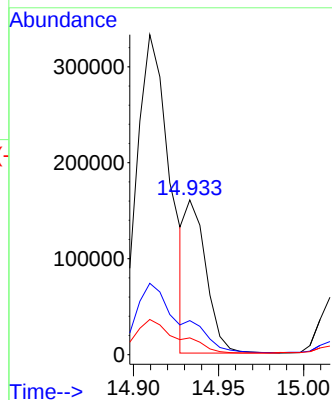
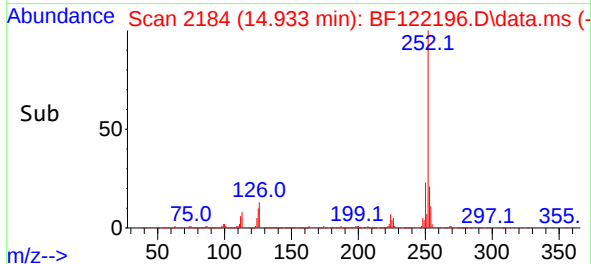
Instrument :
BNA_F
ClientSampleId :
FK-GF-03-017-A



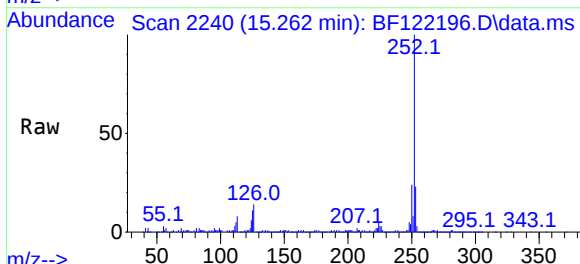
Tgt Ion:252 Resp: 133574
Ion Ratio Lower Upper
252 100
253 22.0 17.8 26.6
125 10.9 7.7 11.5

Manual Integrations
APPROVED

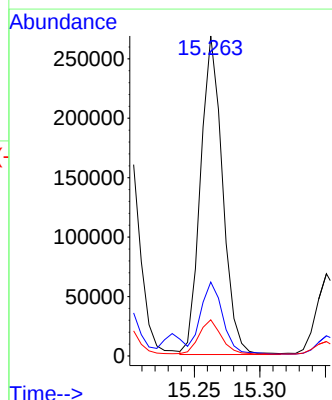
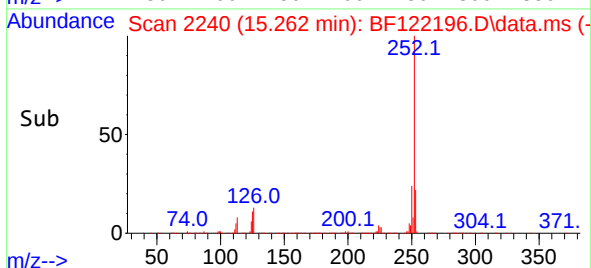
mohammad
11/2/2020 12:36:24 PM

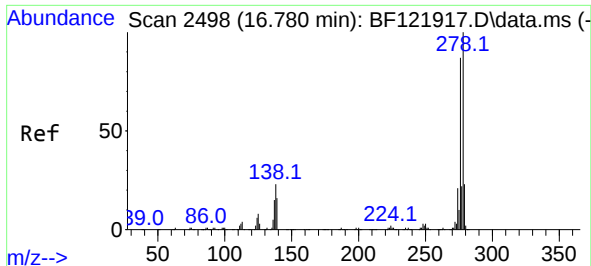


#90
Benzo(a)pyrene
Concen: 26.26 ng
RT: 15.262 min Scan# 2240
Delta R.T. 0.012 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25



Tgt Ion:252 Resp: 313400
Ion Ratio Lower Upper
252 100
253 23.1 17.3 25.9
125 11.3 8.6 13.0





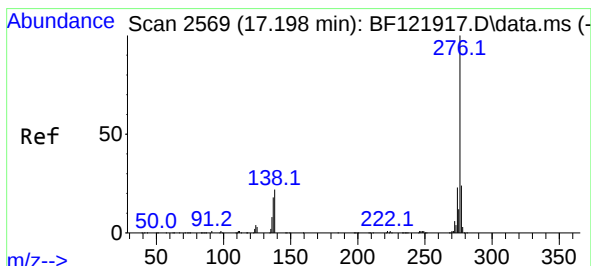
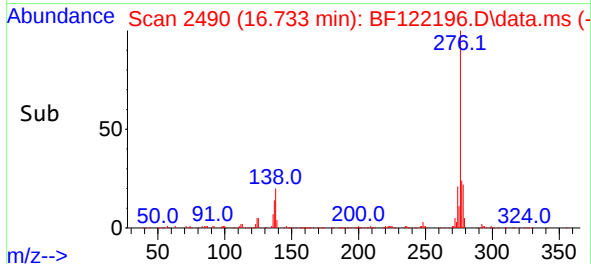
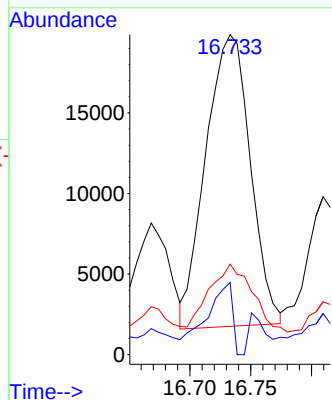
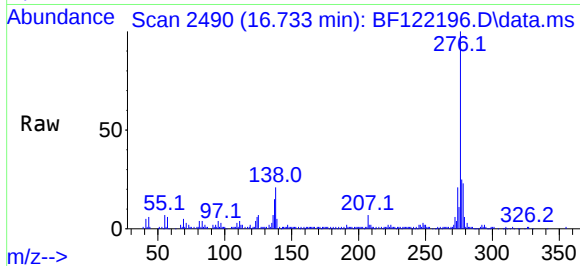
#91
Dibenzo(a,h)anthracene
Concen: 4.22 ng
RT: 16.733 min Scan# 2490
Delta R.T. 0.018 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

Tgt Ion: 278 Resp: 46087
Ion Ratio Lower Upper
278 100
139 22.6 13.0 19.4#
279 28.3 19.0 28.4

Instrument :
BNA_F
ClientSampleId :
FK-GF-03-017-A

Manual Integrations
APPROVED

mohammad
11/2/2020 12:36:24 PM



#92
Benzo(g,h,i)perylene
Concen: 15.01 ng
RT: 17.168 min Scan# 2564
Delta R.T. 0.035 min
Lab File: BF122196.D
Acq: 30 Oct 2020 23:25

Tgt Ion: 276 Resp: 164128
Ion Ratio Lower Upper
276 100
277 25.4 19.4 29.2
138 21.1 17.8 26.6

