

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060220\
 Data File : BF120492.D
 Acq On : 2 Jun 2020 14:02
 Operator : JU/CG
 Sample : L2814-01 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-052920

Manual Integrations
 APPROVED

mohammad
 6/3/2020 4:35:53 PM

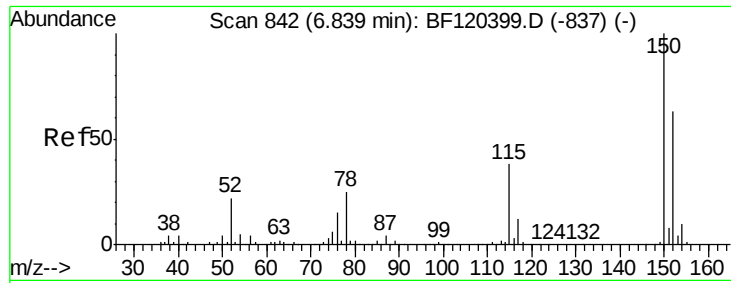
Quant Time: Jun 02 14:50:11 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 02 11:37:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	184329	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	653042	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	295269	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	507348	20.00	ng	0.00
76) Chrysene-d12	14.03	240	317038	20.00	ng	0.01
86) Perylene-d12	15.49	264	396369	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	541015	55.93	ng	0.00
7) Phenol-d6	6.47	99	653125	54.78	ng	0.00
23) Nitrobenzene-d5	7.40	82	396336	39.70	ng	0.00
42) 2,4,6-Tribromophenol	10.67	330	144558	52.84	ng	-0.01
45) 2-Fluorobiphenyl	9.20	172	754679	43.37	ng	0.00
79) Terphenyl-d14	12.96	244	746777	52.42	ng	0.00

Target Compounds					Qvalue
31) Naphthalene	8.15	128	447857	15.615 ng	99
37) 2-Methylnaphthalene	8.84	142	203564	10.716 ng	99
38) 1-Methylnaphthalene	8.94	142	161320	8.996 ng	99
46) 1,1'-Biphenyl	9.30	154	75638	3.900 ng	96
49) Acenaphthylene	9.74	152	171384	6.944 ng	96
50) Dimethylphthalate	9.59	163	127772	6.922 ng	99
52) Acenaphthene	9.92	154	466660	30.294 ng	100
55) Dibenzofuran	10.09	168	555453	24.813 ng	97
58) Fluorene	10.43	166	817927	48.690 ng	100
71) Phenanthrene	11.41	178	3690036	165.063 ng	98
72) Anthracene	11.45	178	1931161	86.097 ng	99
73) Carbazole	11.60	167	364568	16.804 ng	98
75) Fluoranthene	12.61	202	5318742	221.111 ng	99
78) Pyrene	12.83	202	4546936	206.227 ng	96
81) Benzo(a)anthracene	14.02	228	3438947	202.392 ng	96
83) Chrysene	14.06	228	2591632m	145.487 ng	
87) Indeno(1,2,3-cd)pyrene	16.96	276	1360287	62.746 ng	95
88) Benzo(b)fluoranthene	15.07	252	3344806m	151.929 ng	
89) Benzo(k)fluoranthene	15.10	252	1210553m	58.900 ng	
90) Benzo(a)pyrene	15.44	252	2374151	123.288 ng	97
91) Dibenzo(a,h)anthracene	16.96	278	402315m	22.762 ng	
92) Benzo(g,h,i)perylene	17.40	276	1130436	64.847 ng	99

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



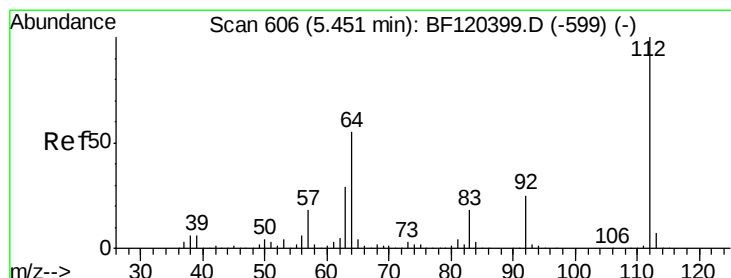
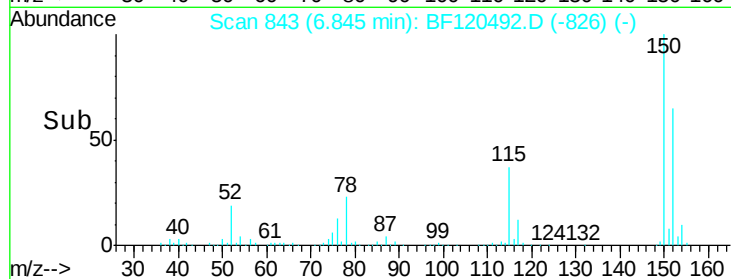
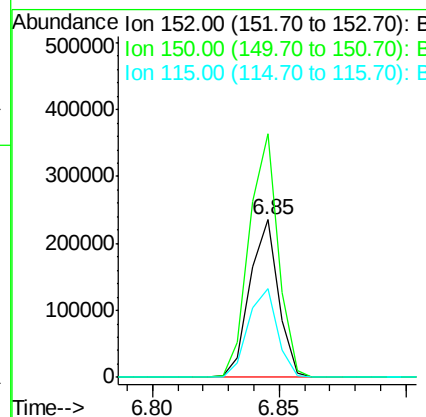
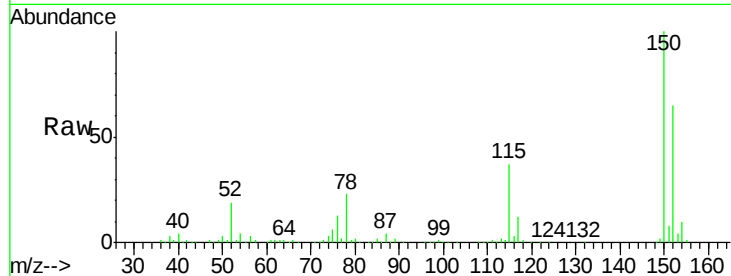
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.85 min Scan# 843
 Delta R.T. -0.00 min
 Lab File: BF120492.D
 Acq: 2 Jun 2020 14:02

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-052920

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.8	126.7	190.1
115	56.5	46.2	69.2

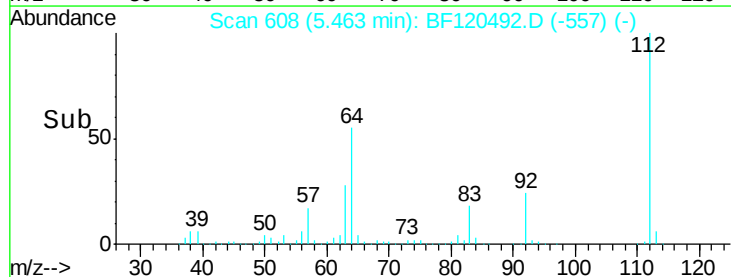
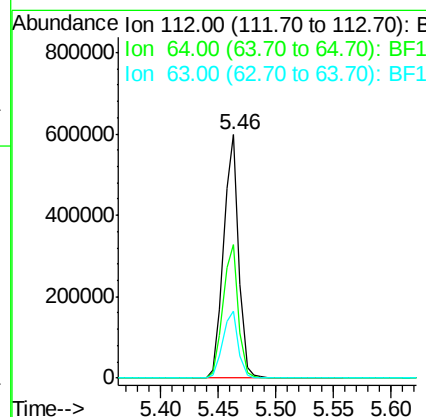
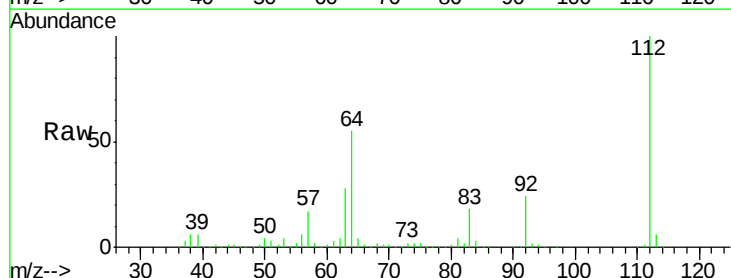
Manual Integrations
 APPROVED

mohammad
 6/3/2020 4:35:53 PM



#5
 2-Fluorophenol
 Concen: 55.935 ng
 RT: 5.46 min Scan# 608
 Delta R.T. -0.00 min
 Lab File: BF120492.D
 Acq: 2 Jun 2020 14:02

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.0	46.3	69.5
63	27.7	24.2	36.2





#7

Phenol-d6

Concen: 54.784 ng

RT: 6.47 min Scan# 780

Delta R.T. -0.01 min

Lab File: BF120492.D

Acq: 2 Jun 2020 14:02

Instrument :

BNA_F

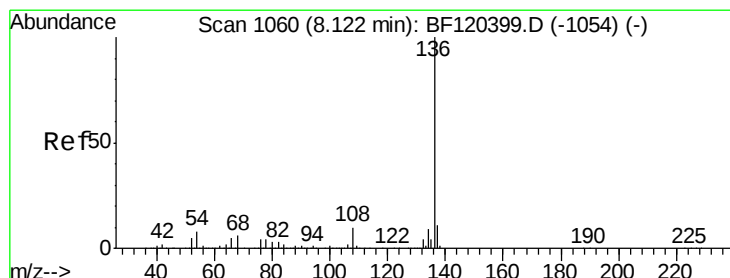
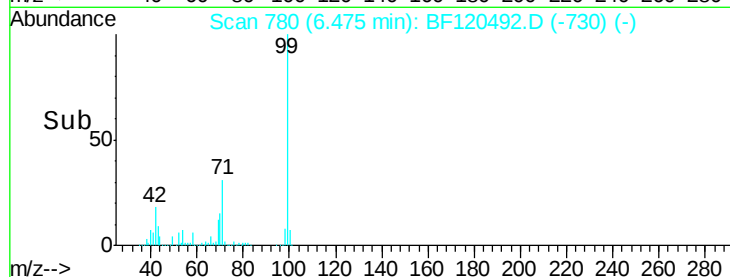
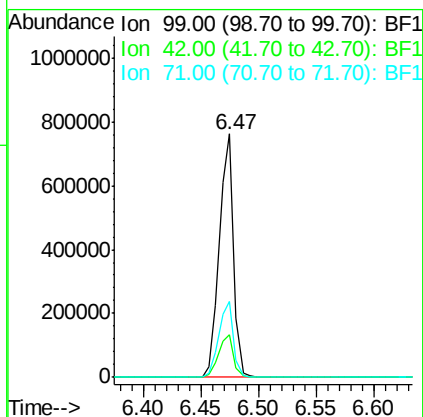
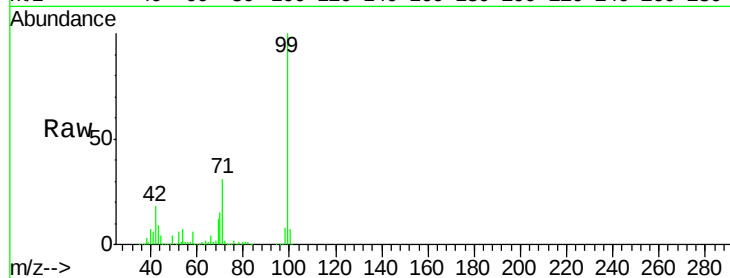
ClientSampleId :

PL-02-052920

Tot Ion:	99	Resp:	653125
Ion	Ratio	Lower	Upper
99	100		
42	17.6	15.1	22.7
71	31.4	26.2	39.4

Manual Integrations
APPROVED

mohammad
6/3/2020 4:35:53 PM



#21

Naphthalene-d8

Concen: 20.000 ng

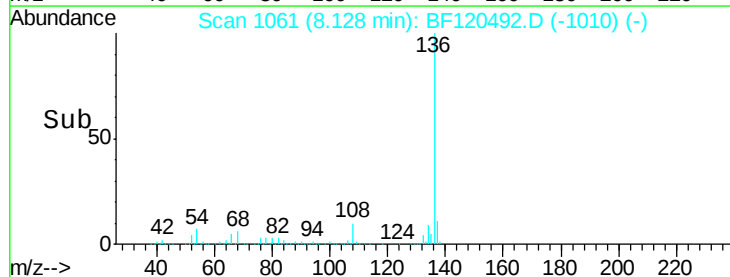
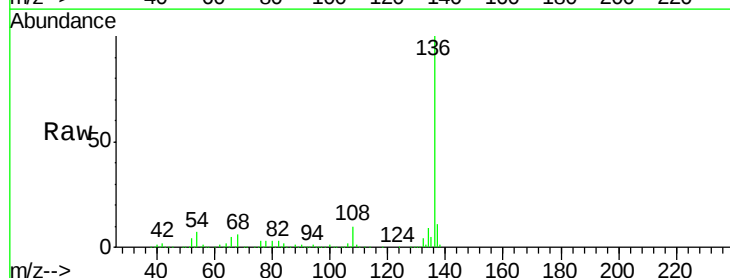
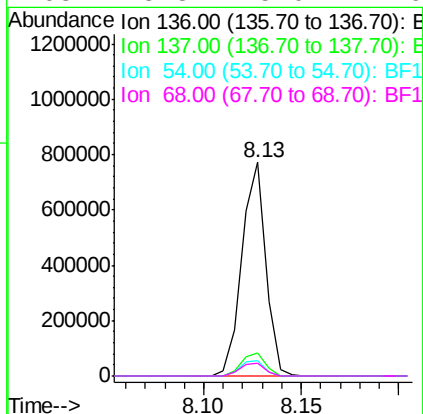
RT: 8.13 min Scan# 1061

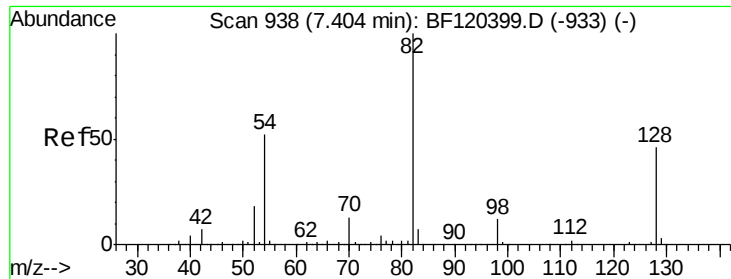
Delta R.T. -0.00 min

Lab File: BF120492.D

Acq: 2 Jun 2020 14:02

Tgt Ion:	136	Resp:	653042
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.6
54	7.2	6.2	9.4
68	5.8	5.0	7.6





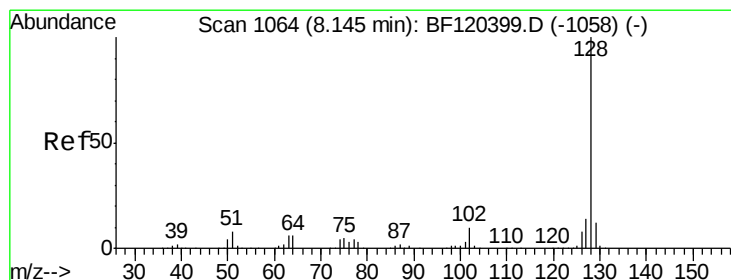
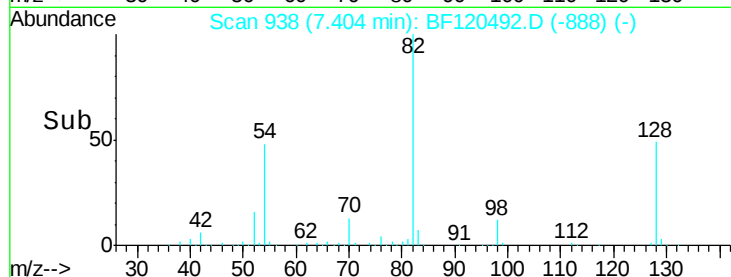
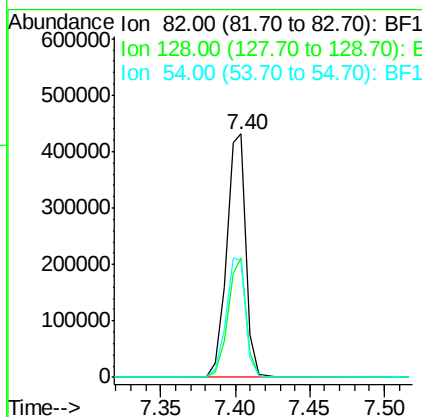
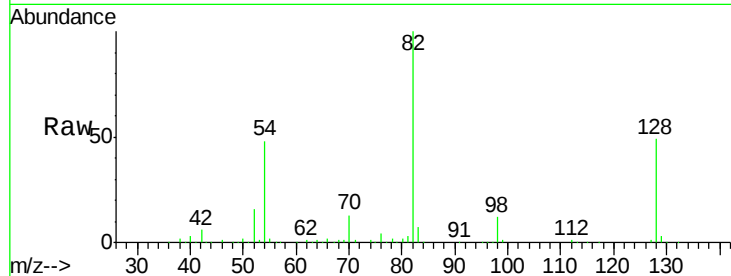
#23
Nitrobenzene-d5
Concen: 39.700 ng
RT: 7.40 min Scan# 938
Delta R.T. -0.01 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Instrument :
BNA_F
ClientSampleId :
PL-02-052920

Tot Ion	Ratio	Resp	Lower	Upper
82	100	396336		
128	49.0		37.0	55.6
54	48.0		41.0	61.4

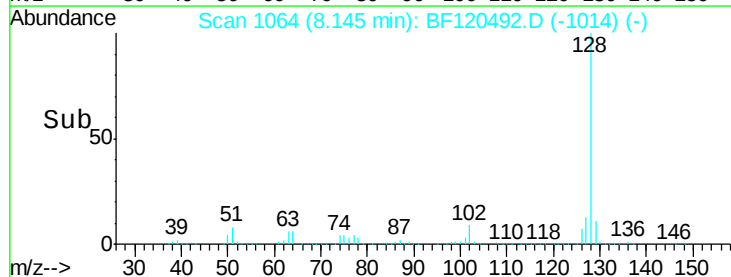
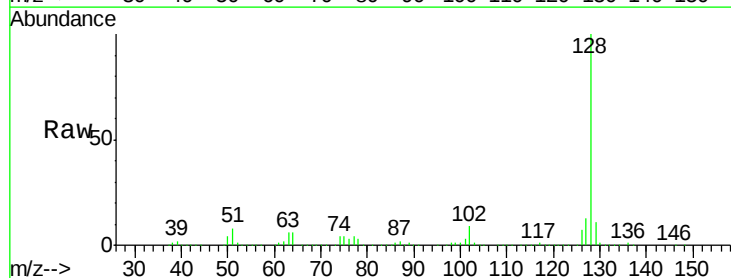
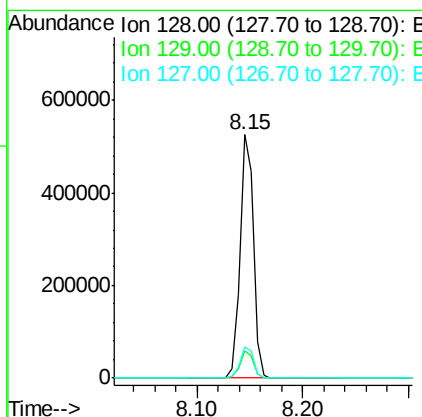
Manual Integrations
APPROVED

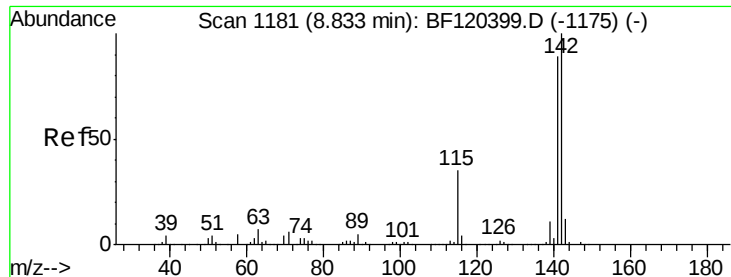
mohammad
6/3/2020 4:35:53 PM



#31
Naphthalene
Concen: 15.615 ng
RT: 8.15 min Scan# 1064
Delta R.T. -0.01 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	447857		
129	11.4		9.4	14.0
127	13.0		10.9	16.3





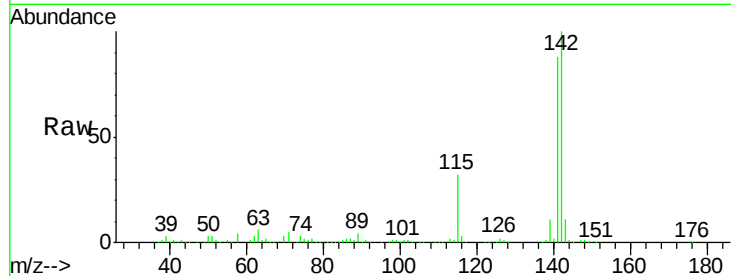
#37
2-Methylnaphthalene
Concen: 10.716 ng
RT: 8.84 min Scan# 1182
Delta R.T. -0.01 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Instrument :
BNA_F
ClientSampleId :
PL-02-052920

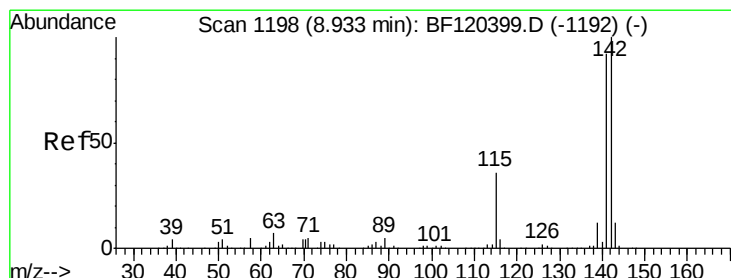
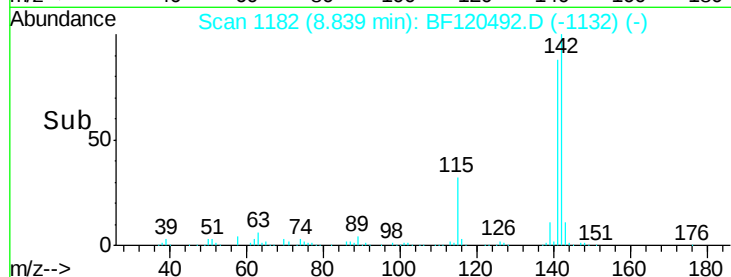
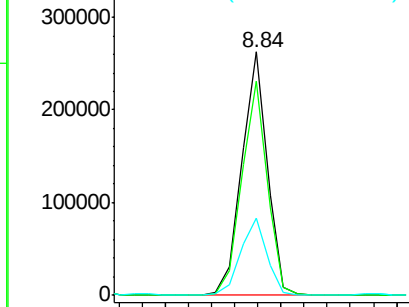
Tot Ion	Ratio	Lower	Upper
142	100		
141	88.0	70.8	106.2
115	31.7	26.1	39.1

Manual Integrations
APPROVED

mohammad
6/3/2020 4:35:53 PM

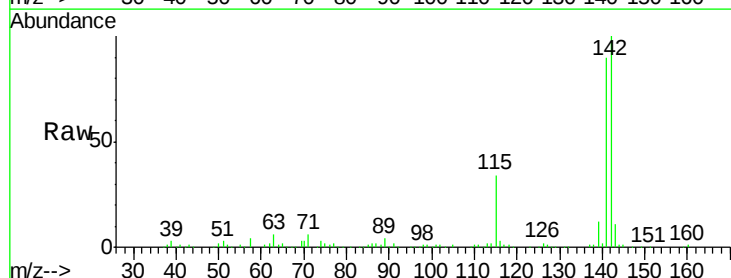


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

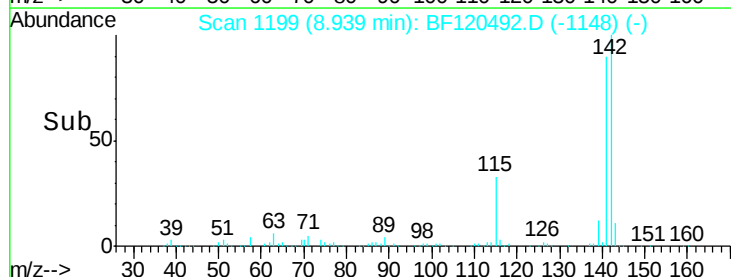
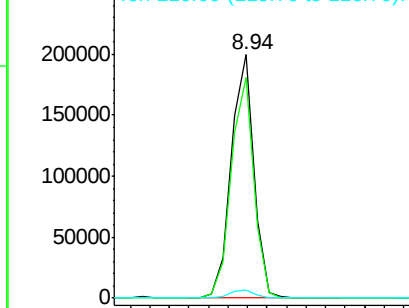


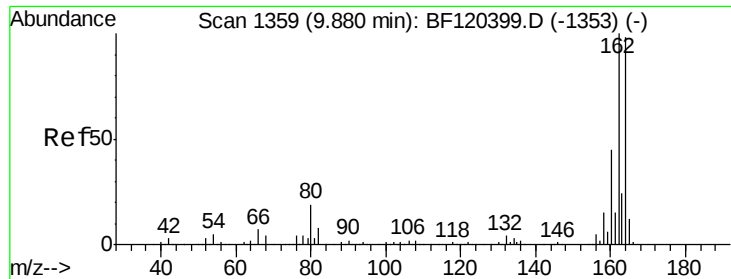
#38
1-Methylnaphthalene
Concen: 8.996 ng
RT: 8.94 min Scan# 1199
Delta R.T. -0.00 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.4	72.8	109.2
116	3.5	2.9	4.3



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E





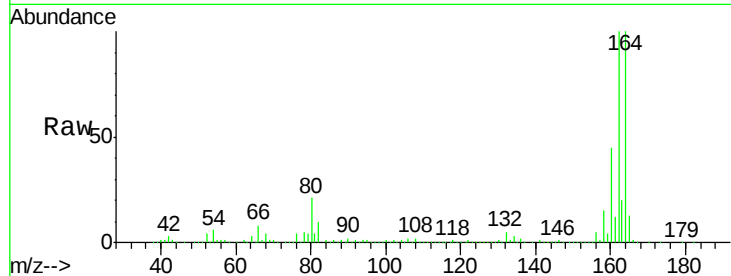
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.88 min Scan# 1359
Delta R.T. -0.01 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Instrument :
BNA_F
ClientSampleId :
PL-02-052920

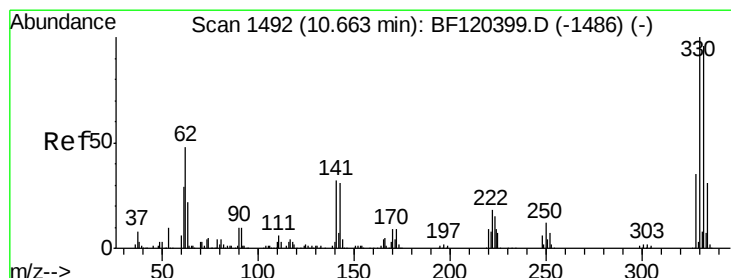
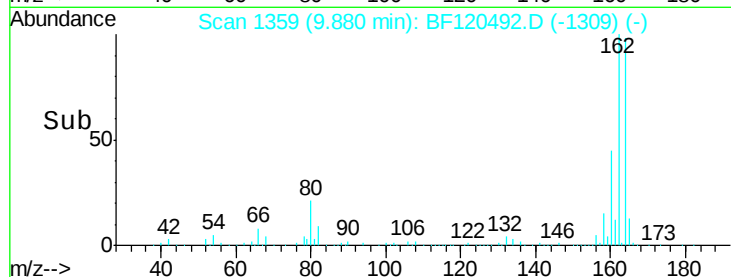
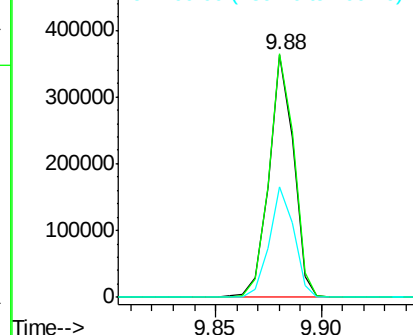
Tot Ion	Ratio	Resp	Lower	Upper
164	100	295269		
162	100.4	81.9	122.9	
160	45.4	37.4	56.0	

Manual Integrations
APPROVED

mohammad
6/3/2020 4:35:53 PM

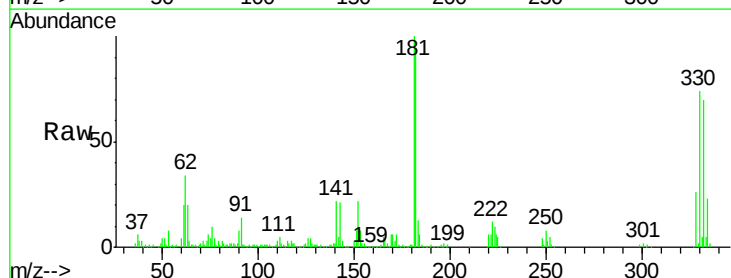


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

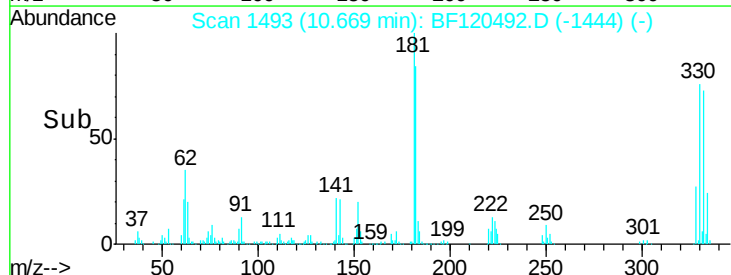
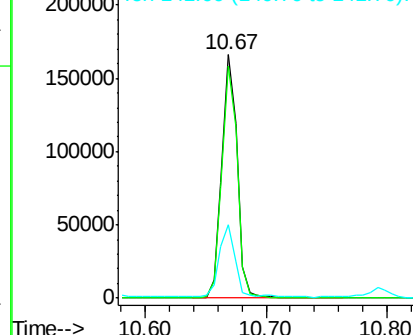


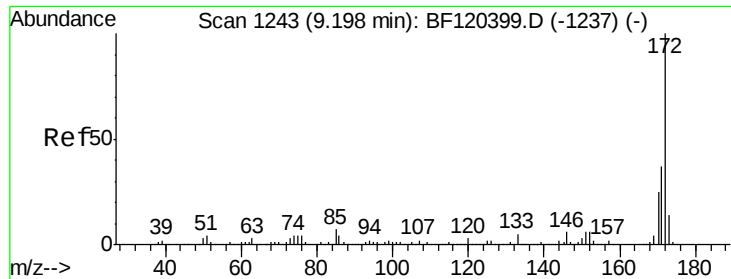
#42
2,4,6-Tribromophenol
Concen: 52.839 ng
RT: 10.67 min Scan# 1493
Delta R.T. -0.01 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	144558		
332	96.4	76.8	115.2	
141	30.5	23.9	35.9	



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





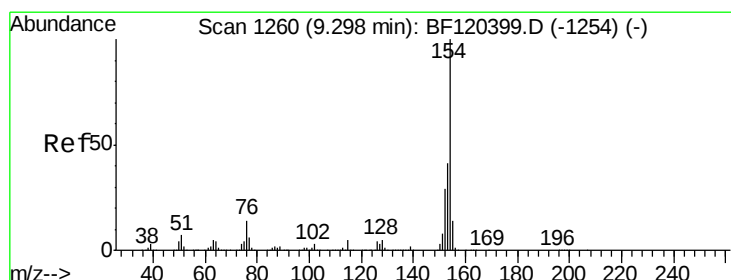
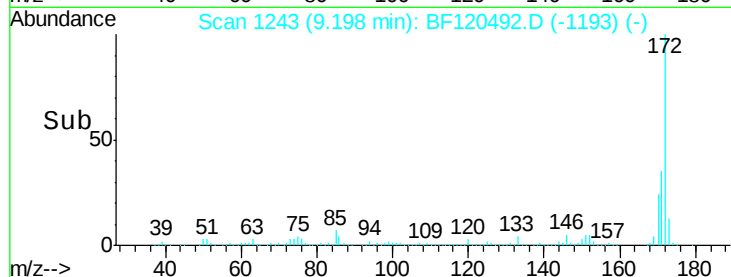
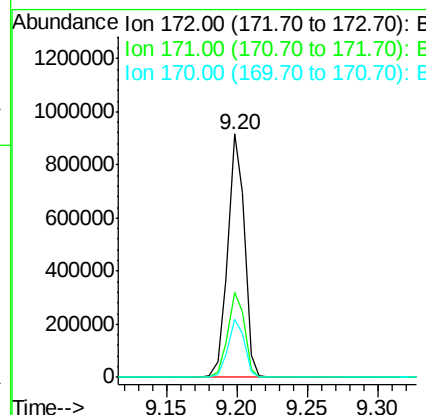
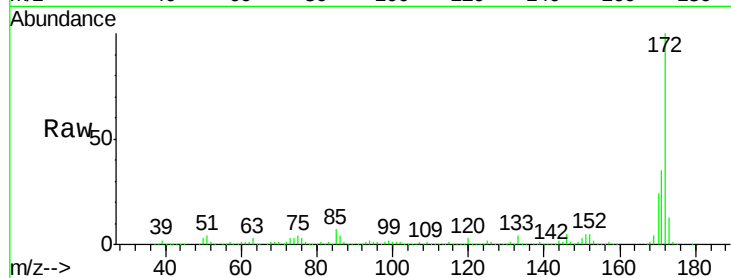
#45
2-Fluorobiphenyl
Concen: 43.366 ng
RT: 9.20 min Scan# 1243
Delta R.T. -0.01 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Instrument :
BNA_F
ClientSampleId :
PL-02-052920

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.1	29.4	44.2
170	23.6	19.9	29.9

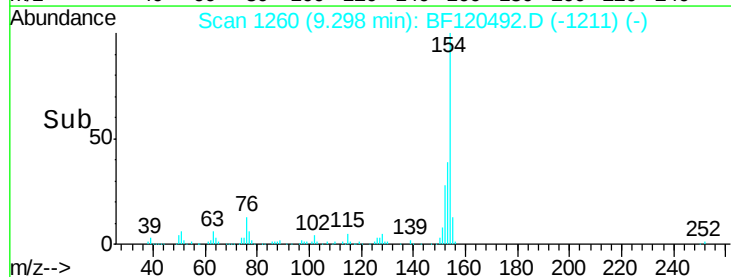
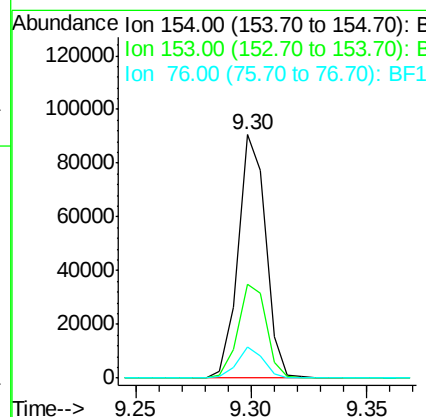
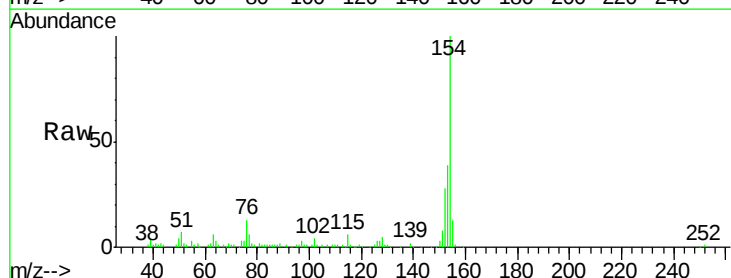
Manual Integrations
APPROVED

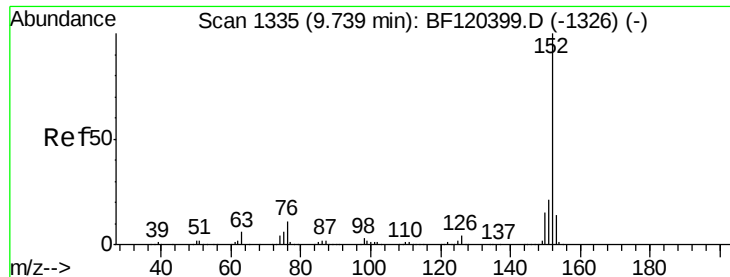
mohammad
6/3/2020 4:35:53 PM



#46
1,1'-Biphenyl
Concen: 3.900 ng
RT: 9.30 min Scan# 1260
Delta R.T. -0.01 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Tgt Ion	Ratio	Lower	Upper
154	100		
153	38.8	21.1	61.1
76	13.0	0.0	31.3





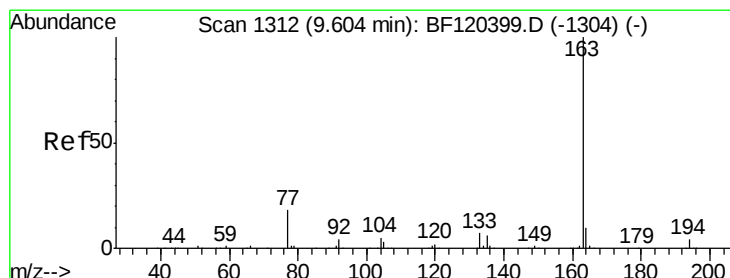
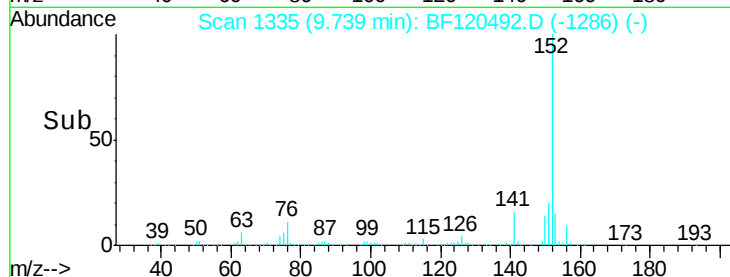
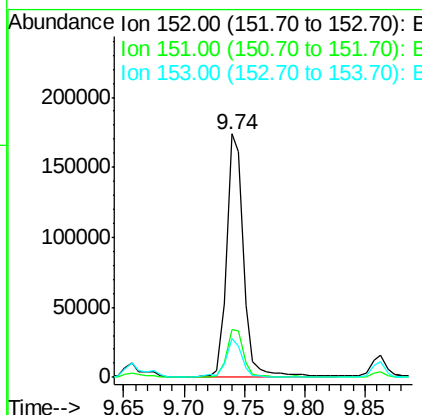
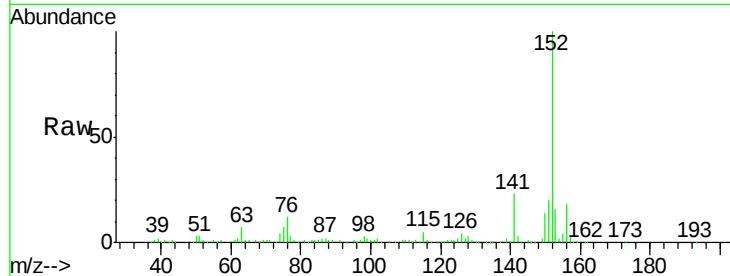
#49
Acenaphthylene
Concen: 6.944 ng
RT: 9.74 min Scan# 1335
Delta R.T. -0.01 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Instrument :
BNA_F
ClientSampleId :
PL-02-052920

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.8	25.2
153	15.8	10.9	16.3

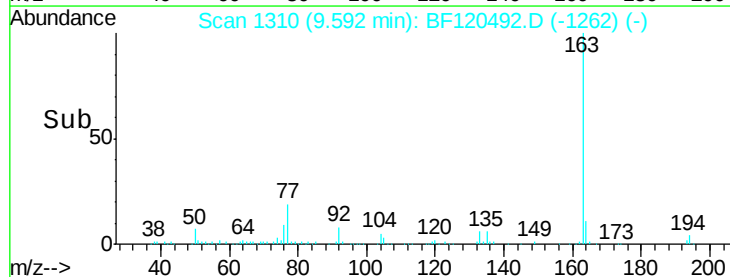
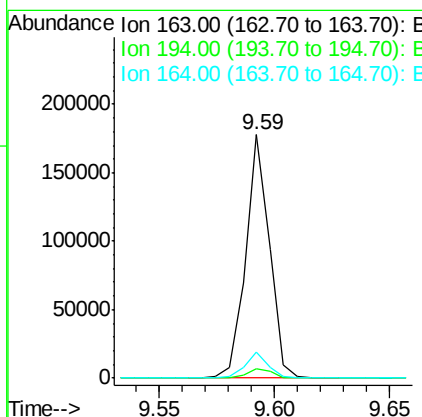
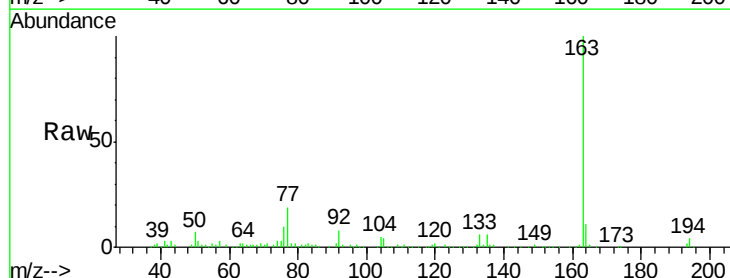
Manual Integrations
APPROVED

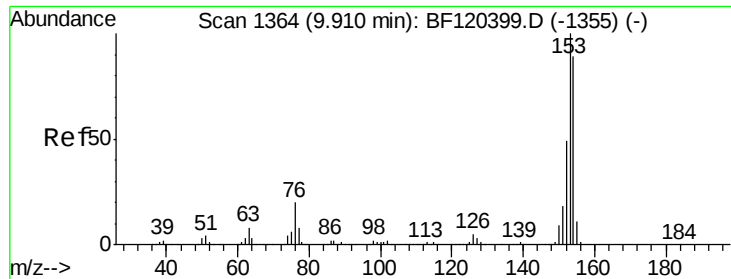
mohammad
6/3/2020 4:35:53 PM



#50
Dimethylphthalate
Concen: 6.922 ng
RT: 9.59 min Scan# 1310
Delta R.T. -0.02 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.3	4.9
164	10.5	8.2	12.2





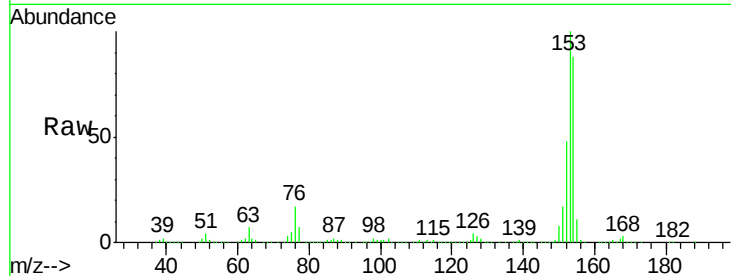
#52
Acenaphthene
Concen: 30.294 ng
RT: 9.92 min Scan# 1365
Delta R.T. -0.01 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Instrument :
BNA_F
ClientSampleId :
PL-02-052920

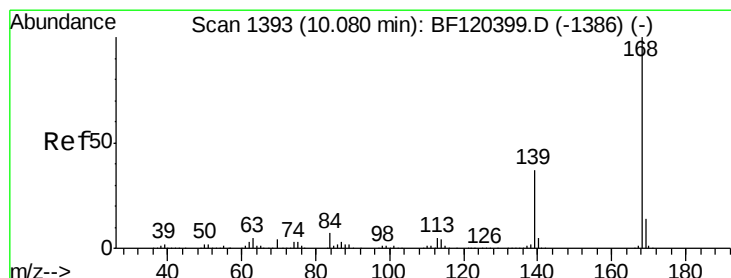
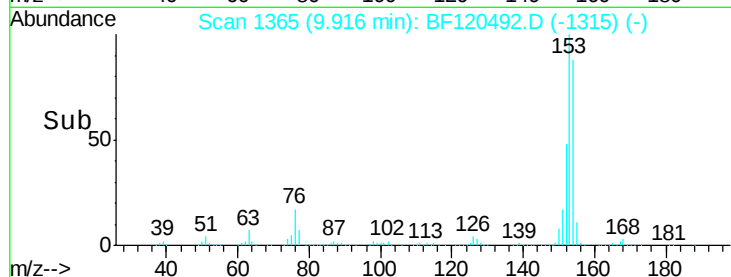
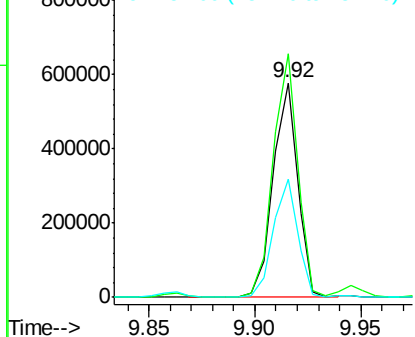
Tot Ion	Ratio	Lower	Upper
154	100		
153	113.4	90.2	135.4
152	54.8	44.1	66.1

Manual Integrations
APPROVED

mohammad
6/3/2020 4:35:53 PM



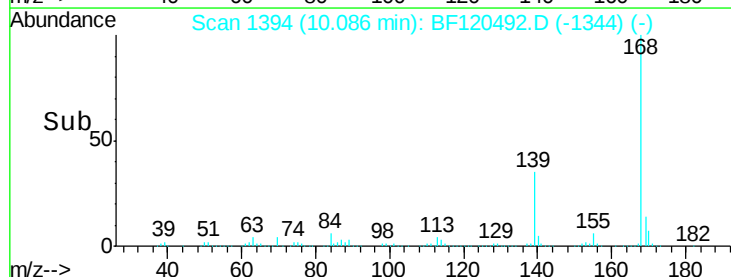
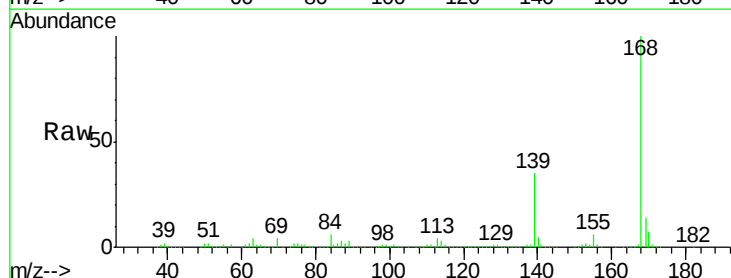
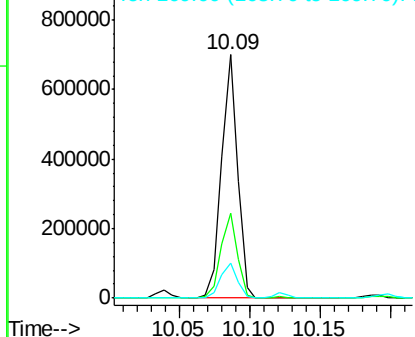
Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

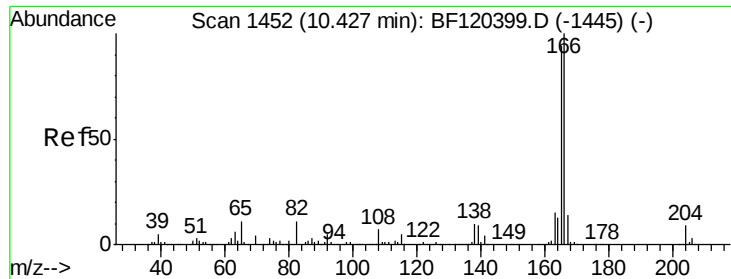


#55
Dibenzofuran
Concen: 24.813 ng
RT: 10.09 min Scan# 1394
Delta R.T. -0.01 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Tgt Ion	Ratio	Lower	Upper
168	100		
139	34.9	29.9	44.9
169	14.3	11.3	16.9

Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





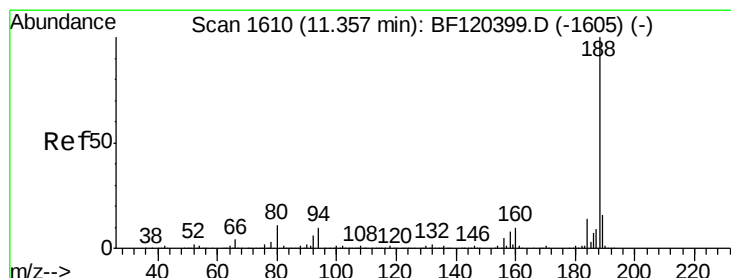
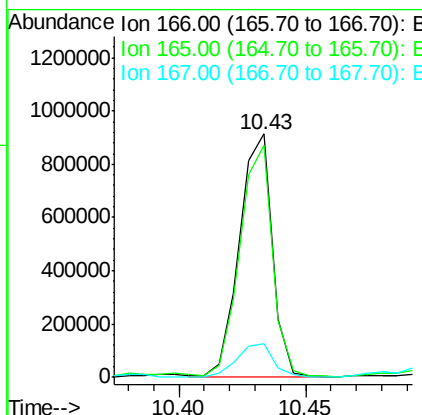
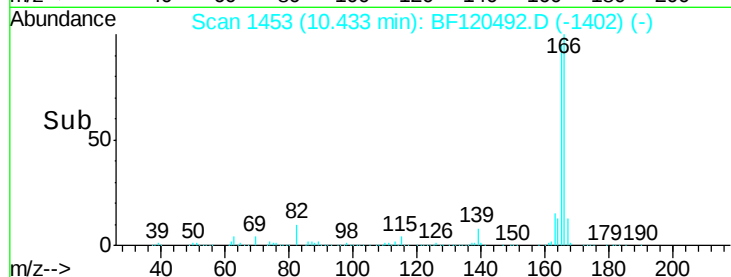
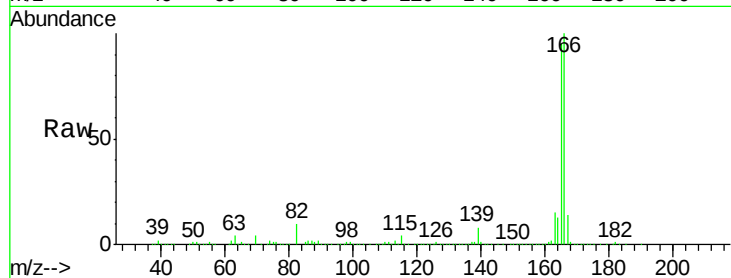
#58
 Fluorene
 Concen: 48.690 ng
 RT: 10.43 min Scan# 1453
 Delta R.T. -0.00 min
 Lab File: BF120492.D
 Acq: 2 Jun 2020 14:02

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-052920

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		817927		
165	95.1	76.2	114.2		
167	13.7	11.2	16.8		

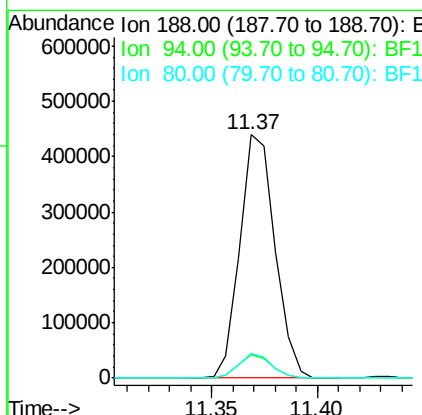
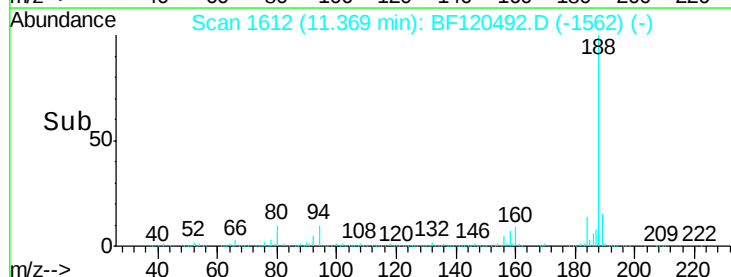
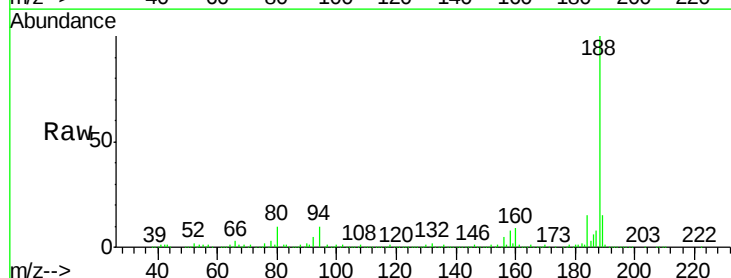
Manual Integrations
 APPROVED

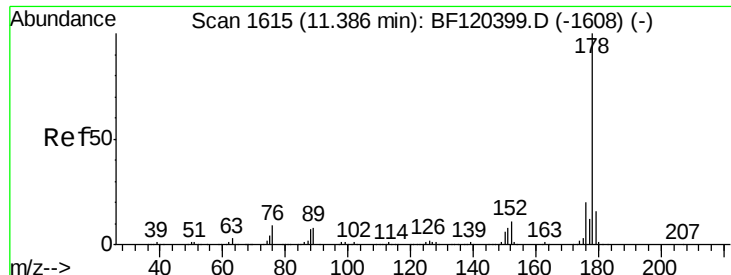
mohammad
 6/3/2020 4:35:53 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.37 min Scan# 1612
 Delta R.T. -0.01 min
 Lab File: BF120492.D
 Acq: 2 Jun 2020 14:02

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		507348		
94	9.8	6.6	10.0		
80	10.1	7.1	10.7		





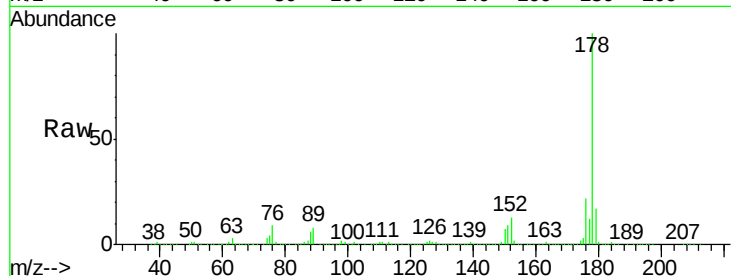
#71
Phenanthrene
Concen: 165.063 ng
RT: 11.41 min Scan# 1619
Delta R.T. 0.01 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Instrument :
BNA_F
ClientSampleId :
PL-02-052920

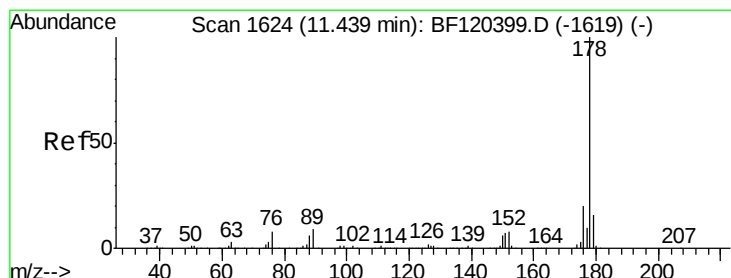
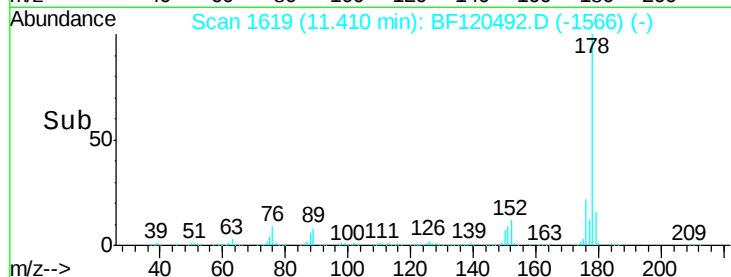
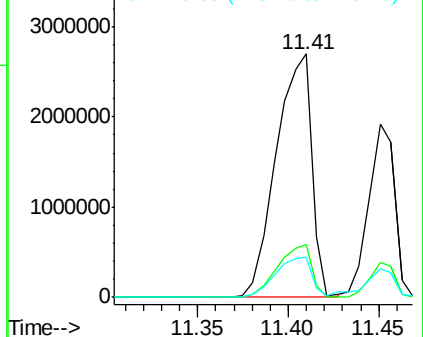
Tot Ion:178 Resp: 3690036
Ion Ratio Lower Upper
178 100
176 21.6 16.2 24.2
179 16.5 12.8 19.2

Manual Integrations
APPROVED

mohammad
6/3/2020 4:35:53 PM



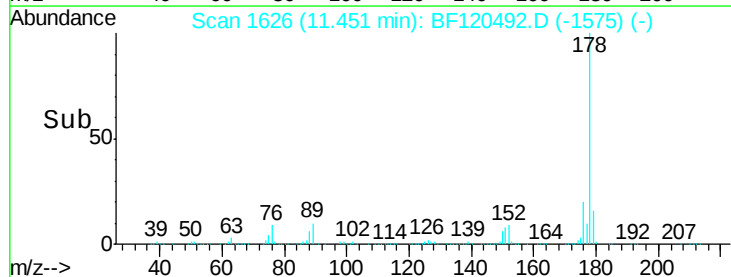
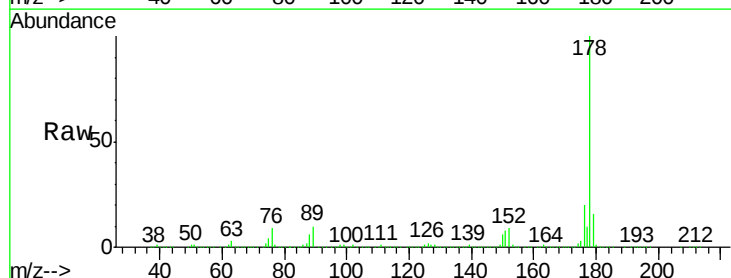
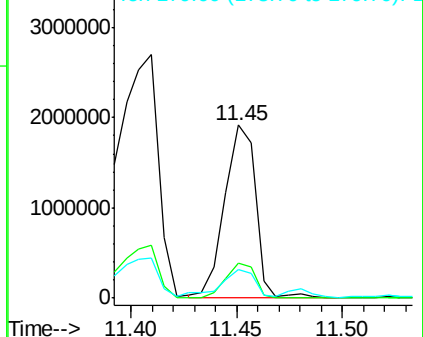
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

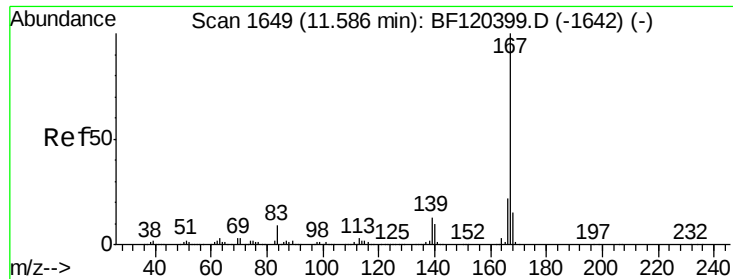


#72
Anthracene
Concen: 86.097 ng
RT: 11.45 min Scan# 1626
Delta R.T. -0.00 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Tgt Ion:178 Resp: 1931161
Ion Ratio Lower Upper
178 100
176 20.0 15.9 23.9
179 16.5 12.7 19.1

Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





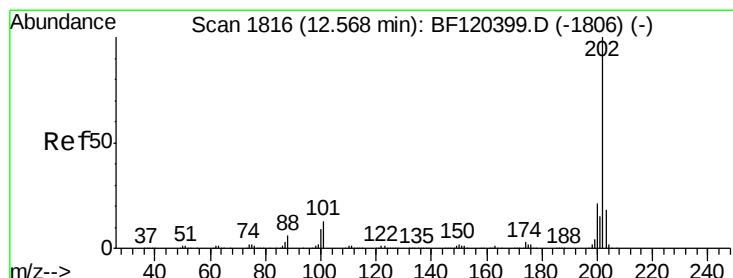
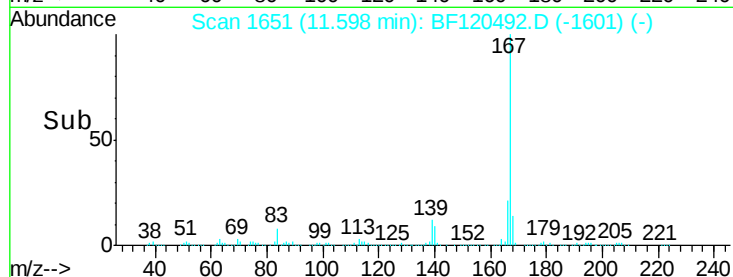
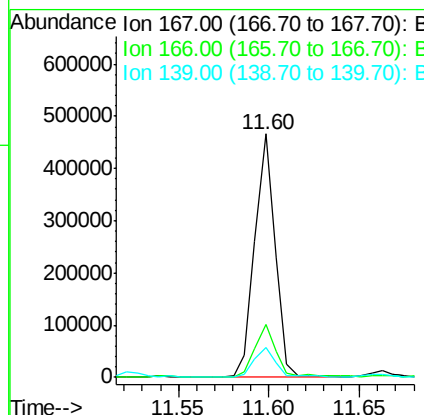
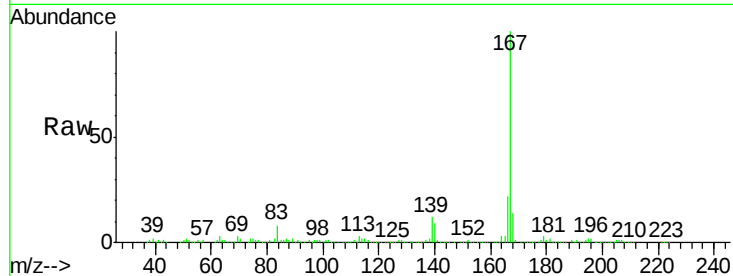
#73
 Carbazole
 Concen: 16.804 ng
 RT: 11.60 min Scan# 1651
 Delta R.T. -0.01 min
 Lab File: BF120492.D
 Acq: 2 Jun 2020 14:02

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-052920

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.8	26.8
139	12.2	10.3	15.5

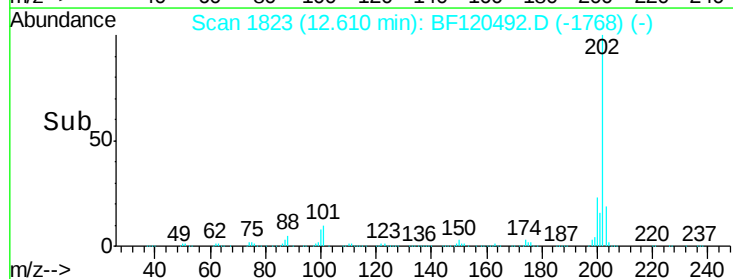
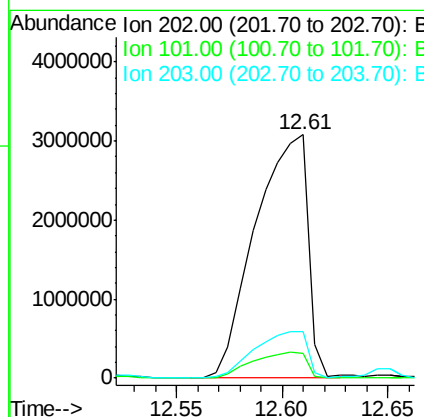
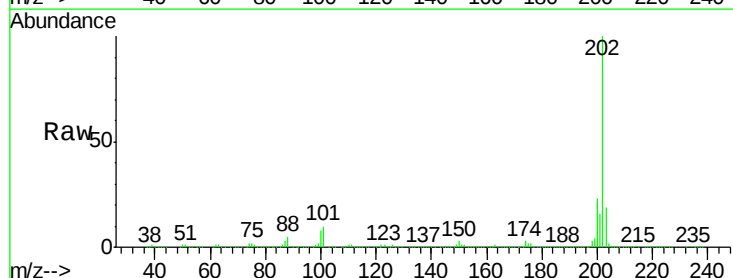
Manual Integrations
 APPROVED

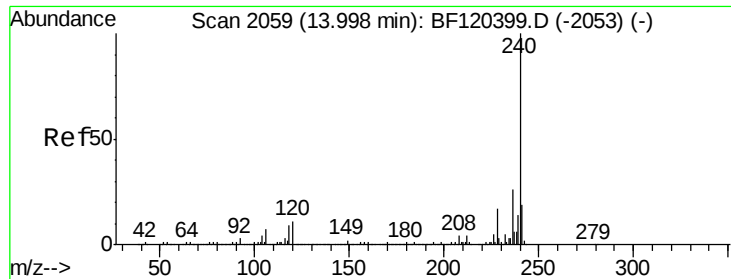
mohammad
 6/3/2020 4:35:53 PM



#75
 Fluoranthene
 Concen: 221.111 ng
 RT: 12.61 min Scan# 1823
 Delta R.T. 0.02 min
 Lab File: BF120492.D
 Acq: 2 Jun 2020 14:02

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	31.4
203	19.1	0.0	38.8





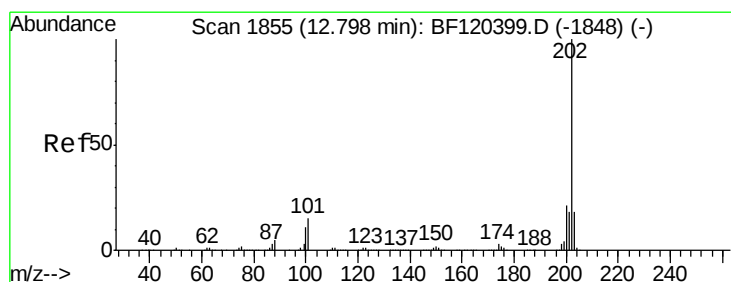
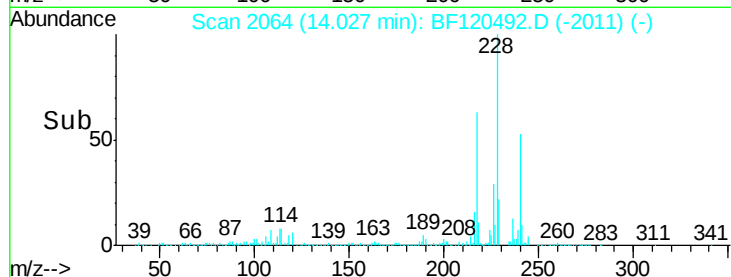
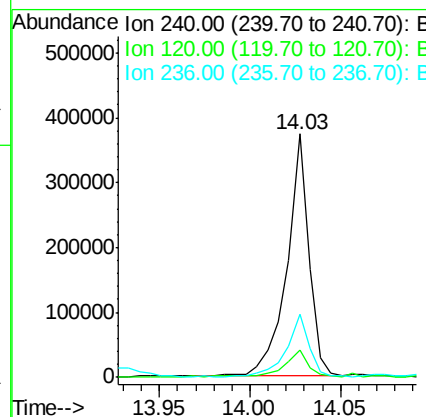
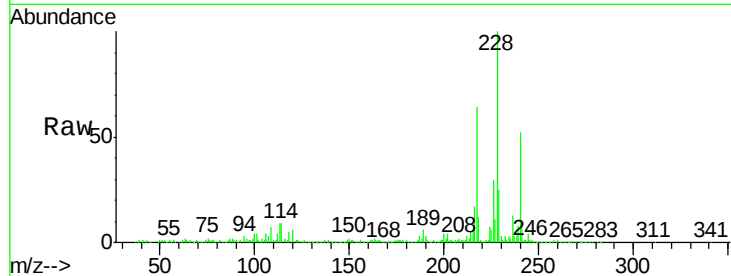
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.03 min Scan# 2064
Delta R.T. 0.01 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Instrument :
BNA_F
ClientSampleId :
PL-02-052920

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.0	9.9	14.9
236	25.8	21.0	31.6

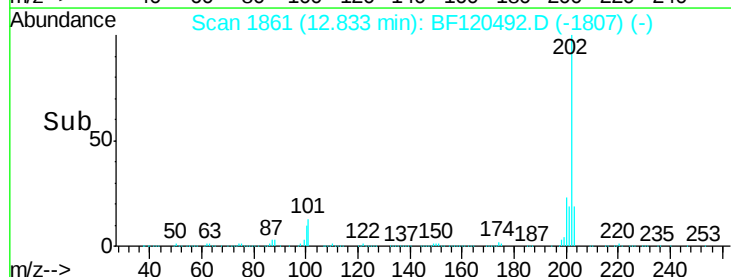
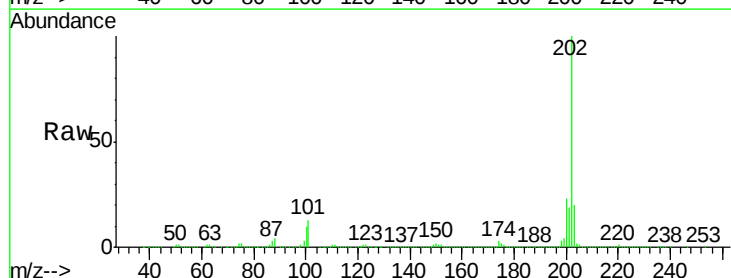
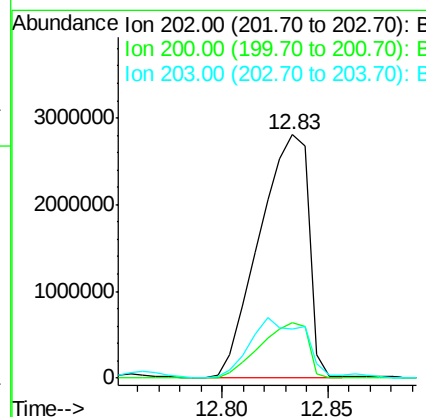
Manual Integrations
APPROVED

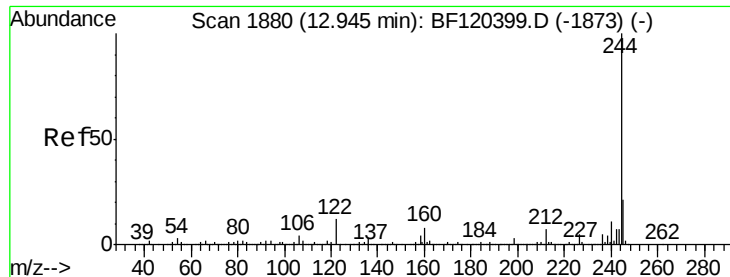
mohammad
6/3/2020 4:35:53 PM



#78
Pyrene
Concen: 206.227 ng
RT: 12.83 min Scan# 1861
Delta R.T. 0.02 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Tgt Ion	Ratio	Lower	Upper
202	100		
200	23.0	17.0	25.6
203	20.2	14.6	22.0





#79

Terphenyl-d14

Concen: 52.415 ng

RT: 12.96 min Scan# 1882

Delta R.T. -0.00 min

Lab File: BF120492.D

Acq: 2 Jun 2020 14:02

Instrument :

BNA_F

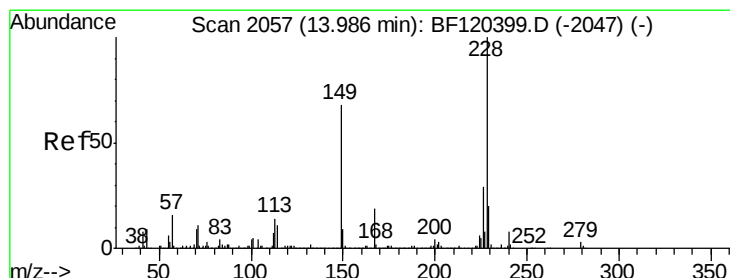
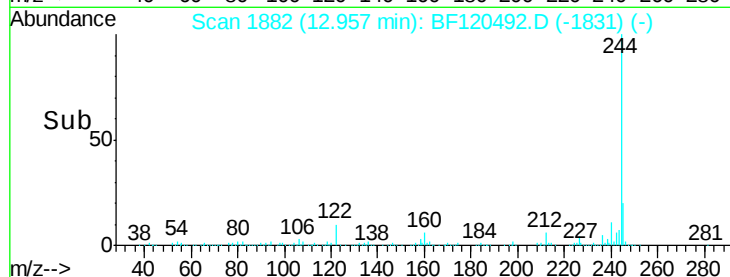
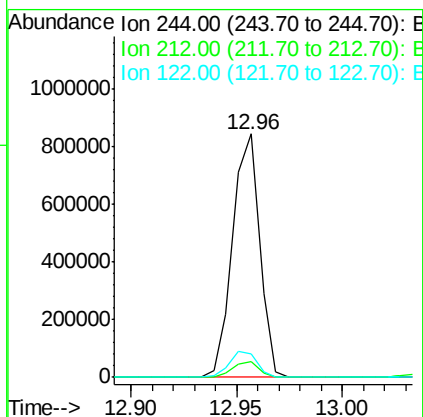
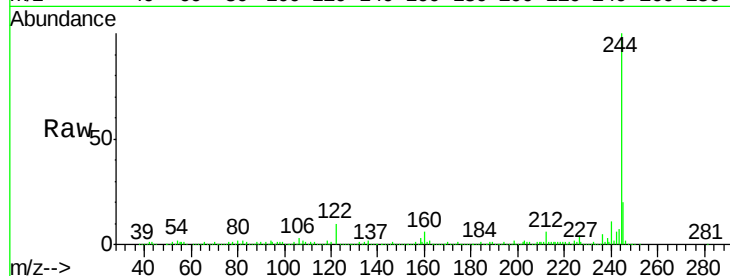
ClientSampleId :

PL-02-052920

Tot Ion:	244	Resp:	746777
Ion Ratio	Lower	Upper	
244	100		
212	6.3	5.8	8.8
122	9.8	8.7	13.1

Manual Integrations
APPROVED

mohammad
6/3/2020 4:35:53 PM



#81

Benzo(a)anthracene

Concen: 202.392 ng

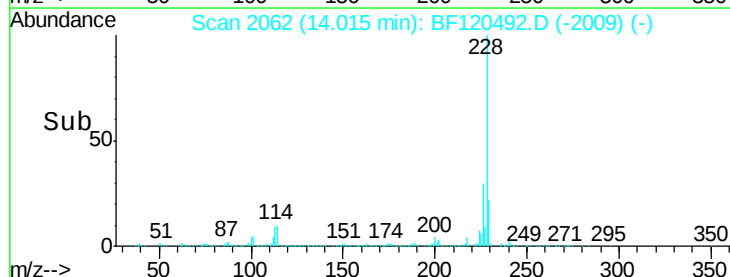
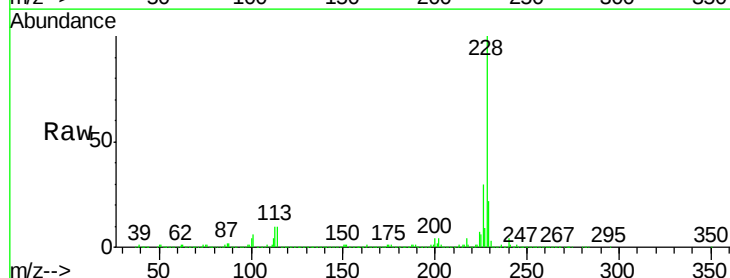
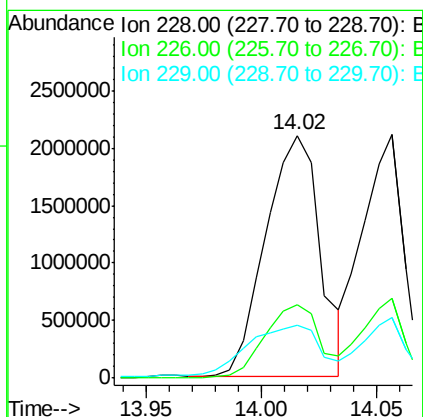
RT: 14.02 min Scan# 2062

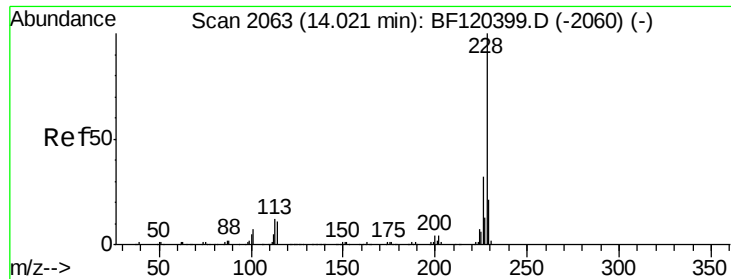
Delta R.T. 0.01 min

Lab File: BF120492.D

Acq: 2 Jun 2020 14:02

Tgt Ion:	228	Resp:	3438947
Ion Ratio	Lower	Upper	
228	100		
226	30.5	22.9	34.3
229	22.1	16.3	24.5





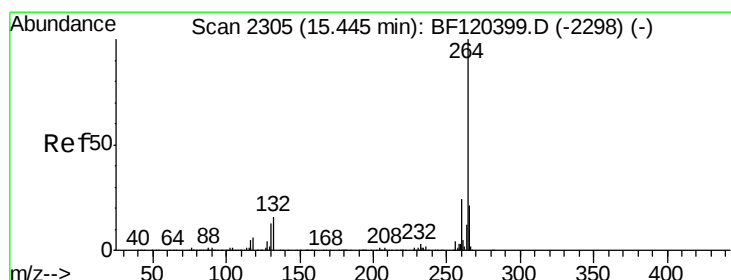
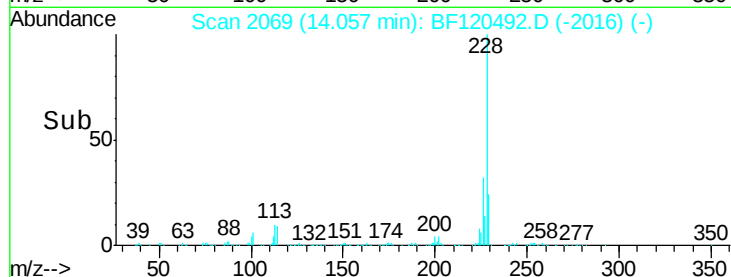
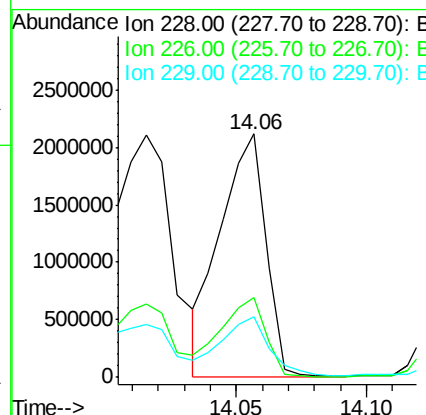
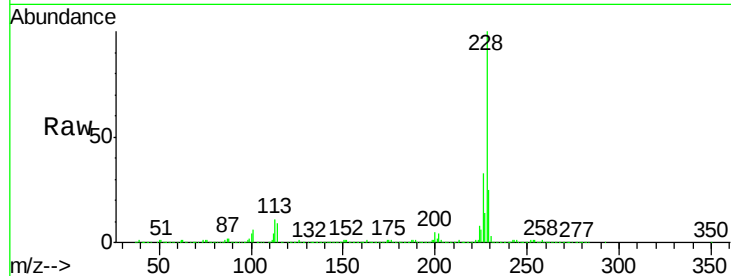
#83
Chrysene
Concen: 145.487 ng/ml
RT: 14.06 min Scan# 2069
Delta R.T. 0.01 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Instrument :
BNA_F
ClientSampleId :
PL-02-052920

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.8	25.7	38.5
229	24.6	16.4	24.6

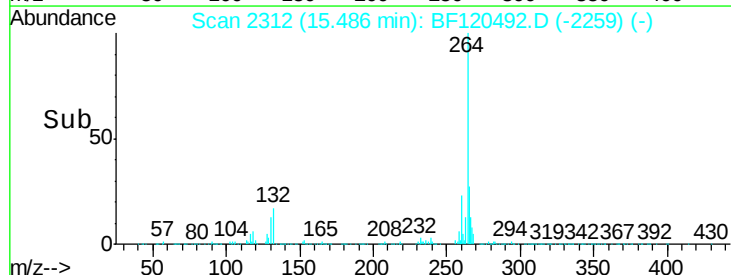
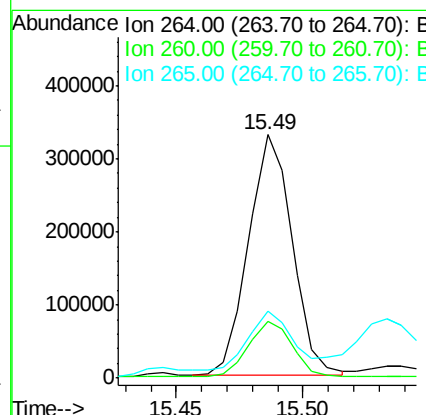
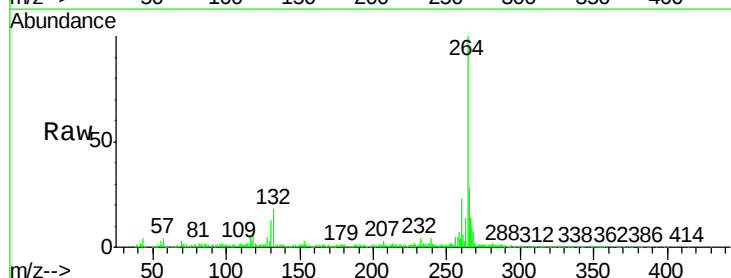
Manual Integrations
APPROVED

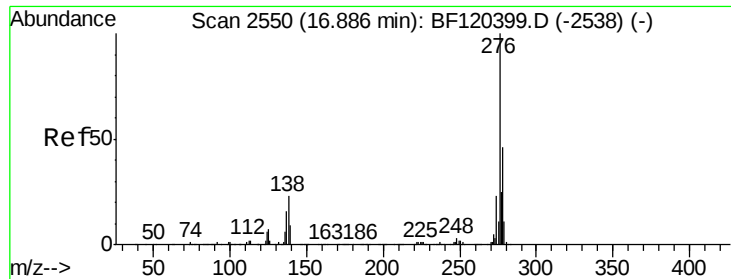
mohammad
6/3/2020 4:35:53 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2312
Delta R.T. 0.01 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.5	29.3
265	27.6	17.6	26.4





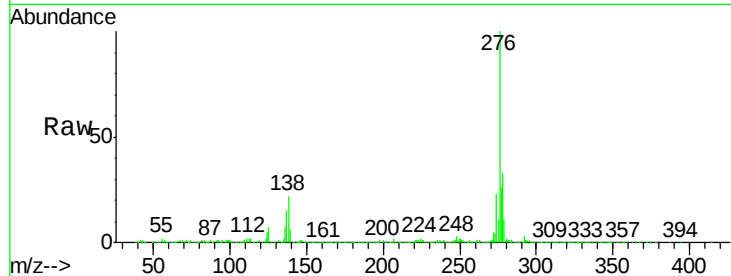
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 62.746 ng
 RT: 16.96 min Scan# 2562
 Delta R.T. 0.02 min
 Lab File: BF120492.D
 Acq: 2 Jun 2020 14:02

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-052920

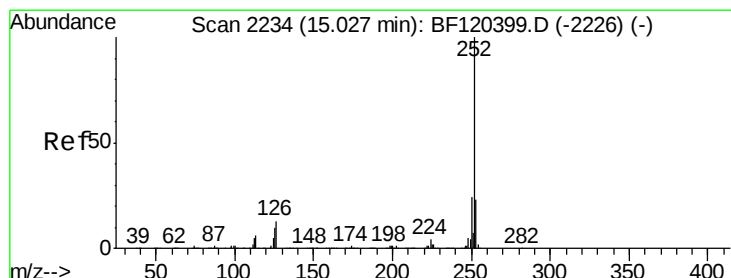
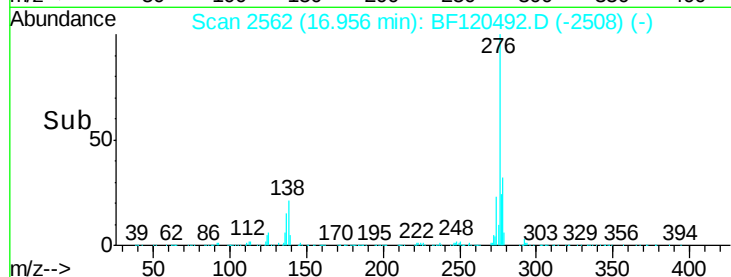
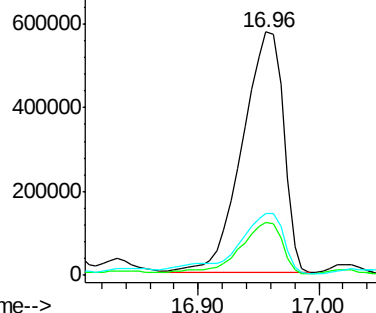
Tot Ion	Ratio	Lower	Upper
276	100		
138	22.4	19.3	28.9
277	29.2	20.7	31.1

Manual Integrations
 APPROVED

mohammad
 6/3/2020 4:35:53 PM



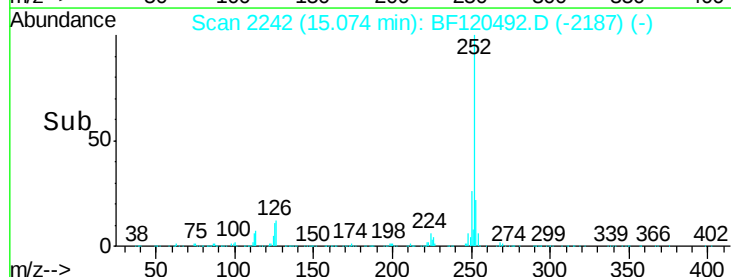
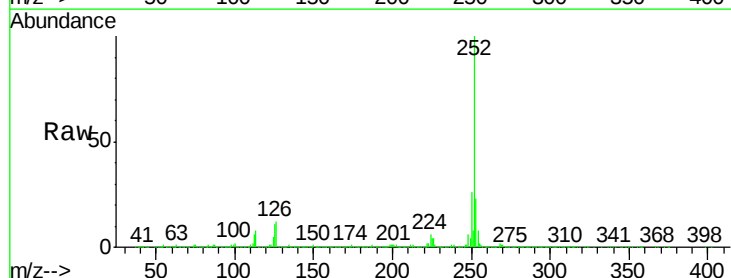
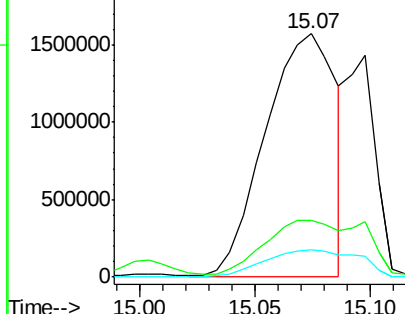
Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

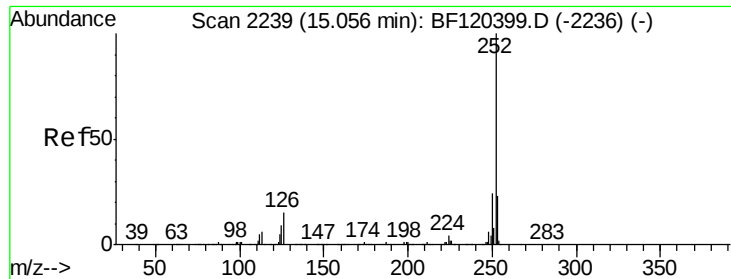


#88
 Benzo(b)fluoranthene
 Concen: 151.929 ng m
 RT: 15.07 min Scan# 2242
 Delta R.T. 0.02 min
 Lab File: BF120492.D
 Acq: 2 Jun 2020 14:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.2	27.2
125	11.0	8.2	12.4

Abundance Ion 252.00 (251.70 to 252.70): E
 Ion 253.00 (252.70 to 253.70): E
 Ion 125.00 (124.70 to 125.70): E





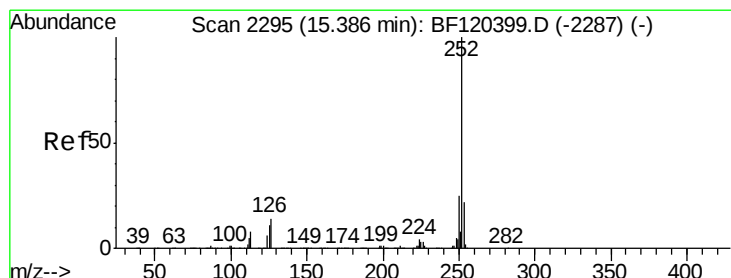
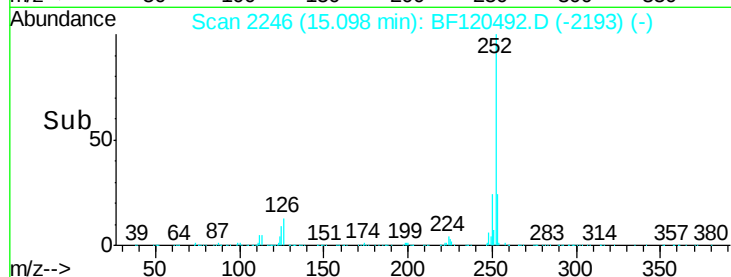
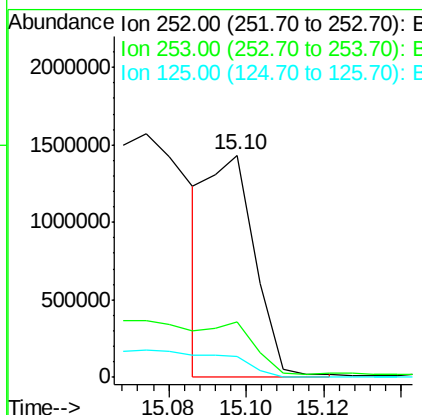
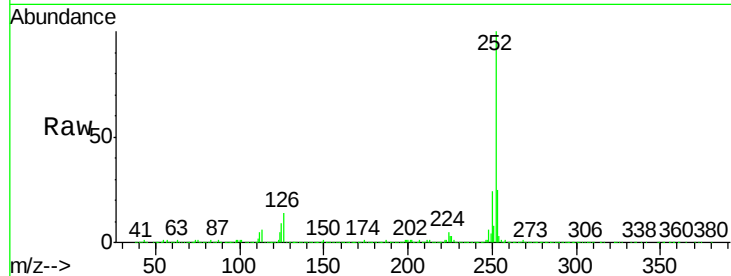
#89
Benzo(k)fluoranthene
Concen: 58.900 ng m
RT: 15.10 min Scan# 2246
Delta R.T. 0.01 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Instrument :
BNA_F
ClientSampleId :
PL-02-052920

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.8	26.6
125	9.2	7.1	10.7

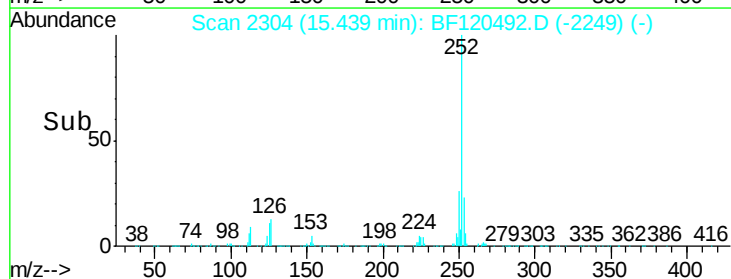
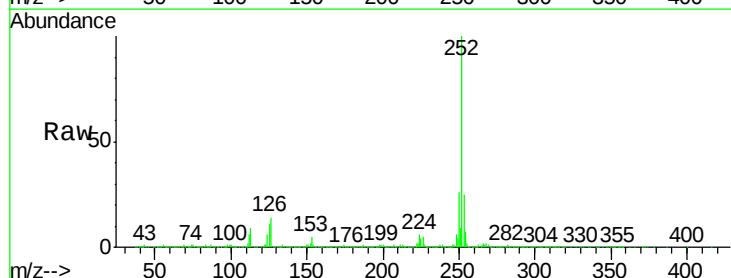
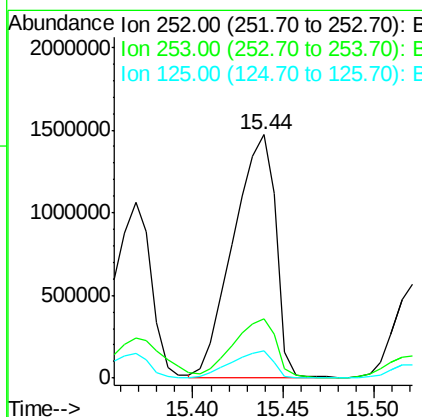
Manual Integrations
APPROVED

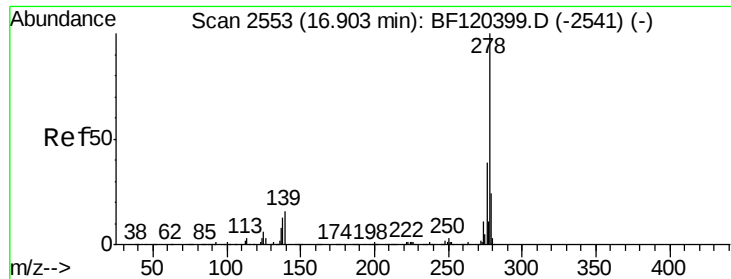
mohammad
6/3/2020 4:35:53 PM



#90
Benzo(a)pyrene
Concen: 123.288 ng
RT: 15.44 min Scan# 2304
Delta R.T. 0.02 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.9	26.9
125	11.0	9.0	13.4





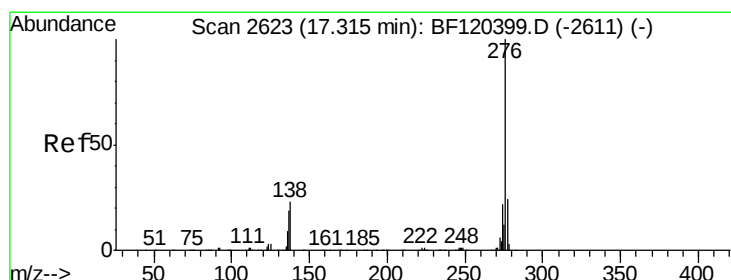
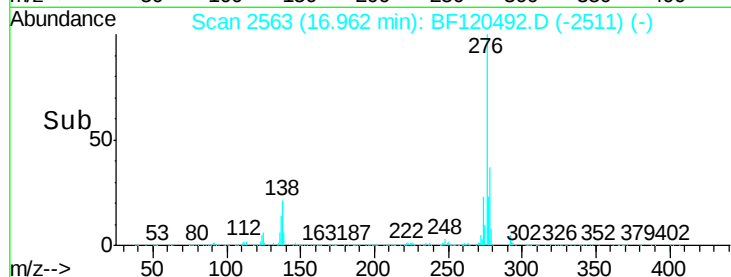
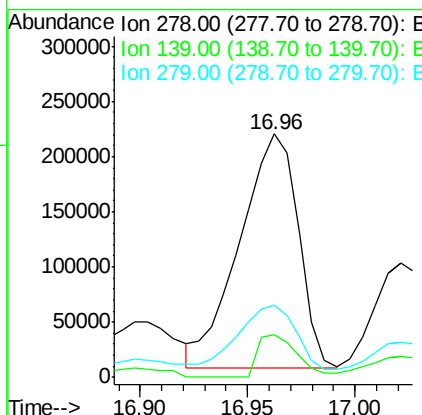
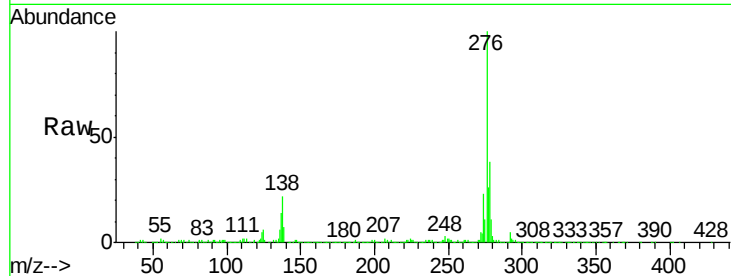
#91
Dibenzo(a,h)anthracene
Concen: 22.762 ng m
RT: 16.96 min Scan# 2563
Delta R.T. 0.01 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Instrument :
BNA_F
ClientSampleId :
PL-02-052920

Tot Ion	Ratio	Lower	Upper
278	100		
139	17.7	12.2	18.4
279	29.4	18.8	28.2

Manual Integrations
APPROVED

mohammad
6/3/2020 4:35:53 PM



#92
Benzo(g,h,i)perylene
Concen: 64.847 ng
RT: 17.40 min Scan# 2638
Delta R.T. 0.02 min
Lab File: BF120492.D
Acq: 2 Jun 2020 14:02

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	18.8	28.2
138	21.0	16.8	25.2

