

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041620\
 Data File : BF120037.D
 Acq On : 16 Apr 2020 15:42
 Operator : MA/SJ
 Sample : L2230-55 5X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-2-3-4

Manual Integrations
 APPROVED

mohammad
 4/17/2020 1:48:29 PM

Quant Time: Apr 17 03:34:58 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 16 10:48:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	125991	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	482623	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	243488	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	373180	20.00	ng	0.00
76) Chrysene-d12	13.90	240	262071	20.00	ng	0.00
87) Perylene-d12	15.32	264	232962	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	201868	27.69	ng	0.00
7) Phenol-d6	6.35	99	267795	28.51	ng	-0.01
23) Nitrobenzene-d5	7.29	82	161408	17.30	ng	-0.01
42) 2,4,6-Tribromophenol	10.55	330	52502	17.61	ng	-0.01
45) 2-Fluorobiphenyl	9.09	172	342755	19.99	ng	0.00
79) Terphenyl-d14	12.84	244	264703	17.00	ng	-0.01

Target Compounds				Qvalue		
20) 3+4-Methylphenols	7.13	107	22408	2.520	ng	# 61
31) Naphthalene	8.03	128	92374	3.638	ng	99
50) Dimethylphthalate	9.49	163	53494	2.840	ng	99
58) Fluorene	10.31	166	37774	2.143	ng	# 98
71) Phenanthrene	11.27	178	412440	20.766	ng	100
72) Anthracene	11.33	178	126552	6.237	ng	99
75) Fluoranthene	12.47	202	595709	27.798	ng	97
78) Pyrene	12.70	202	542561	24.558	ng	99
81) Benzo(a)anthracene	13.89	228	275836	15.999	ng	99
83) Chrysene	13.92	228	259182	14.795	ng	97
86) Indeno(1,2,3-cd)pyrene	16.71	276	91353	5.916	ng	95
88) Benzo(b)fluoranthene	14.92	252	302362m	18.042	ng	
89) Benzo(k)fluoranthene	14.94	252	65747m	4.547	ng	
90) Benzo(a)pyrene	15.26	252	199291	14.143	ng	99
91) Dibenzo(a,h)anthracene	16.72	278	25723	2.061	ng	# 89
92) Benzo(g,h,i)perylene	17.12	276	79162	6.425	ng	# 93

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

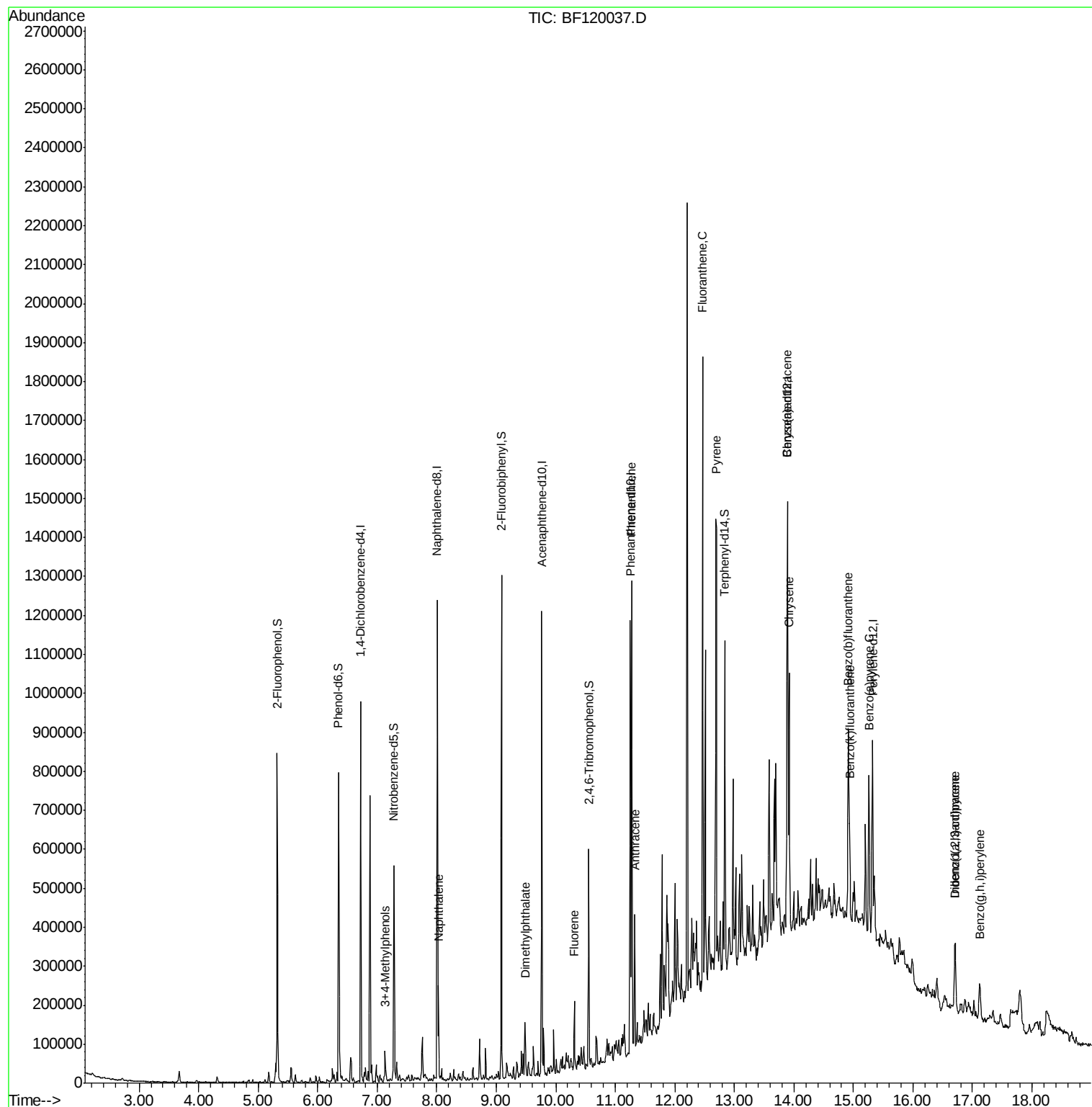
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041620\
Data File : BF120037.D
Acq On : 16 Apr 2020 15:42
Operator : MA/SJ
Sample : L2230-55 5X
Misc :
ALS Vial : 45 Sample Multiplier: 1

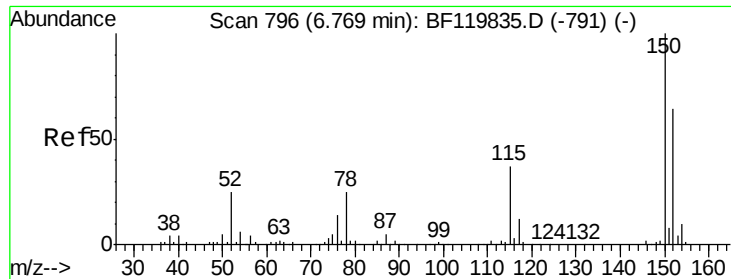
Instrument :
BNA_F
ClientSampleId :
TP-2-3-4

Manual Integrations
APPROVED

mohammad
4/17/2020 1:48:29 PM

Quant Time: Apr 17 03:34:58 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 16 10:48:04 2020
Response via : Initial Calibration





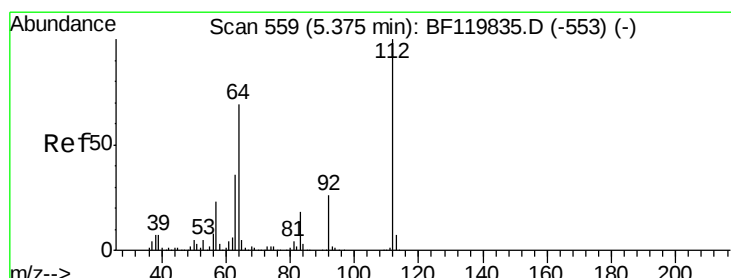
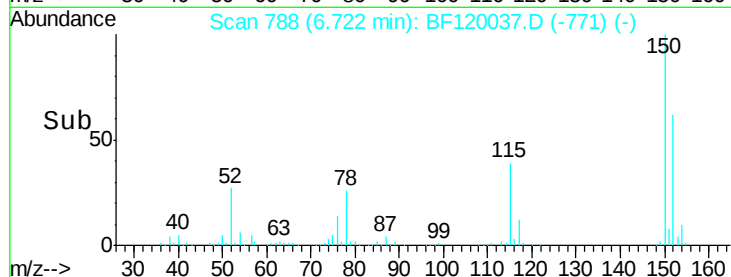
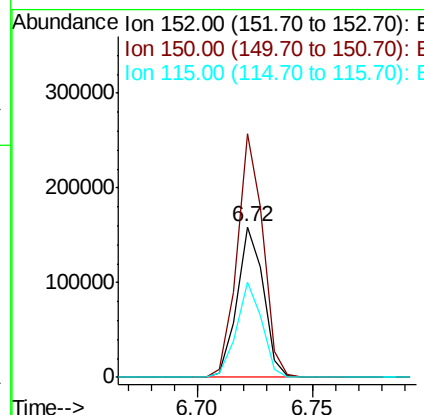
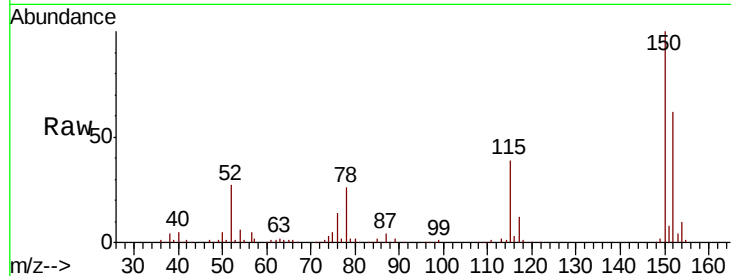
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.72 min Scan# 788
 Delta R.T. -0.00 min
 Lab File: BF120037.D
 Acq: 16 Apr 2020 15:42

Instrument :
 BNA_F
 ClientSampleId :
 TP-2-3-4

Tot Ion	Ratio	Lower	Upper
152	100		
150	162.0	124.8	187.2
115	63.1	46.5	69.7

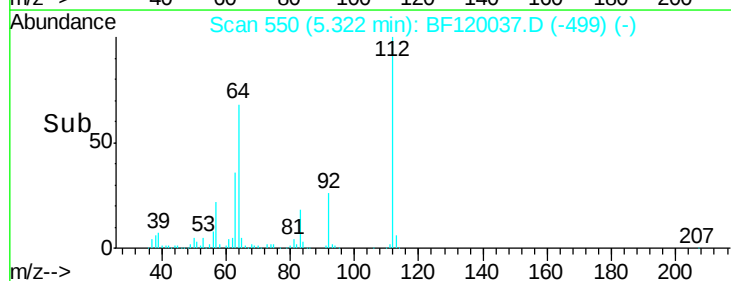
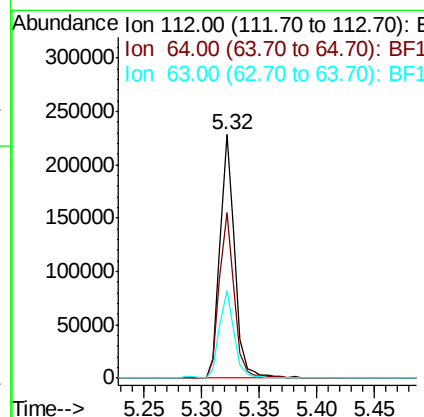
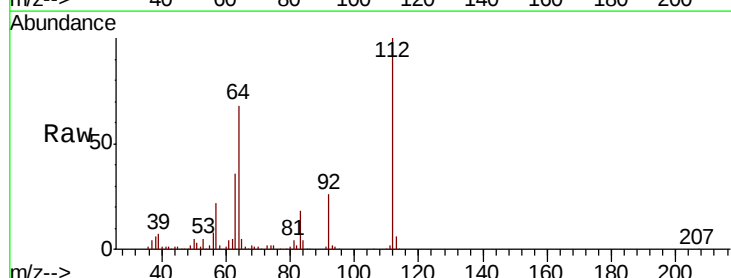
Manual Integrations
 APPROVED

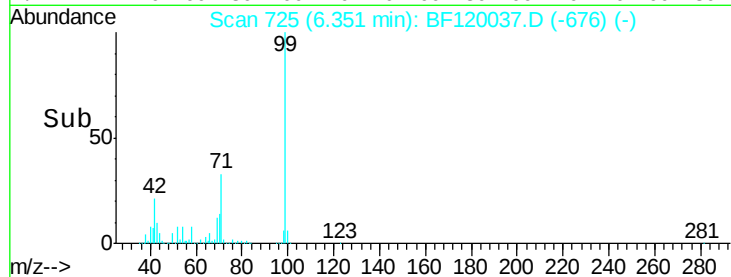
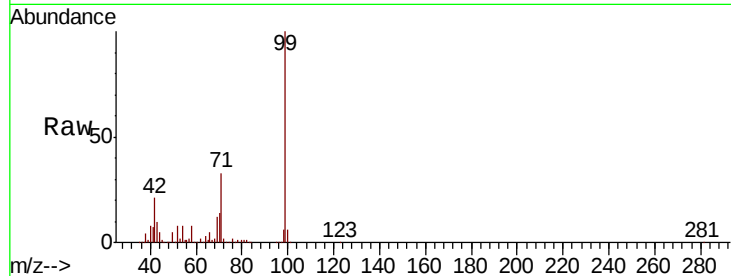
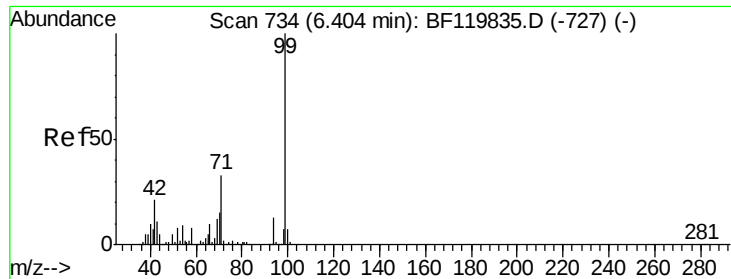
mohammad
 4/17/2020 1:48:29 PM



#5
 2-Fluorophenol
 Concen: 27.690 ng
 RT: 5.32 min Scan# 550
 Delta R.T. -0.00 min
 Lab File: BF120037.D
 Acq: 16 Apr 2020 15:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.8	55.5	83.3
63	35.9	29.1	43.7





#7

Phenol-d6

Concen: 28.507 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF120037.D

Acq: 16 Apr 2020 15:42

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		267795		
42	21.2	16.9	25.3		
71	33.0	26.3	39.5		

Instrument :

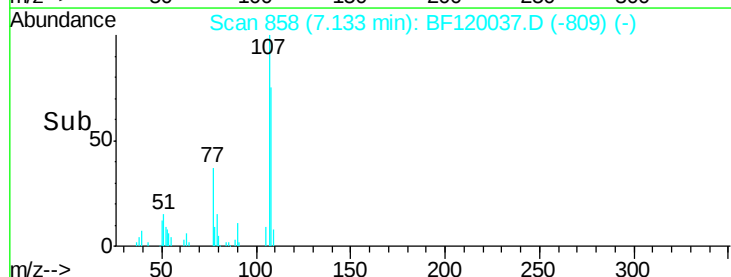
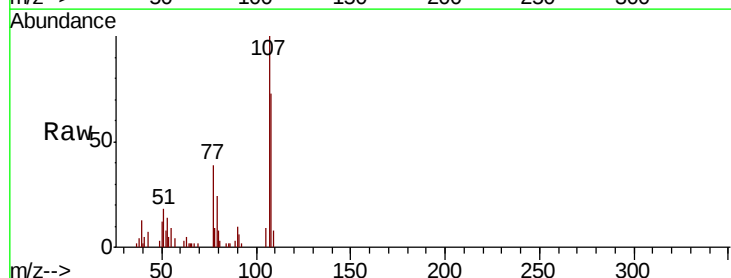
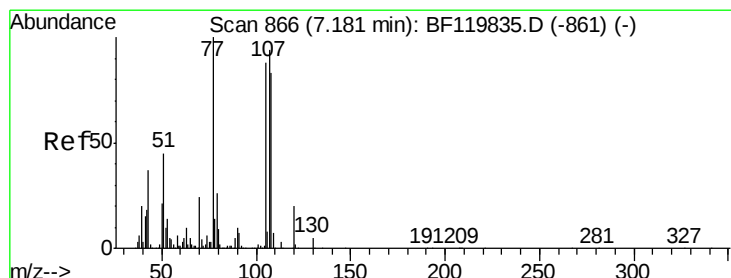
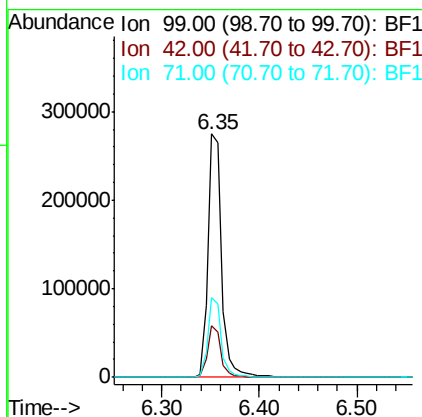
BNA_F

ClientSampleId :

TP-2-3-4

Manual Integrations
APPROVED

mohammad
4/17/2020 1:48:29 PM



#20

3+4-Methylphenols

Concen: 2.520 ng

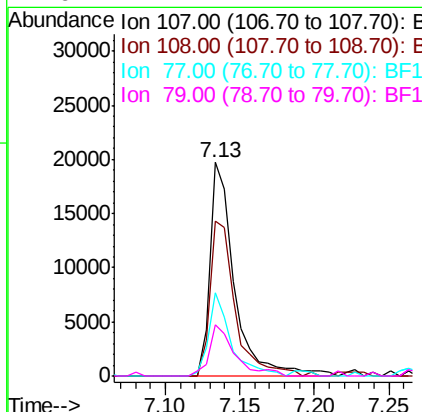
RT: 7.13 min Scan# 858

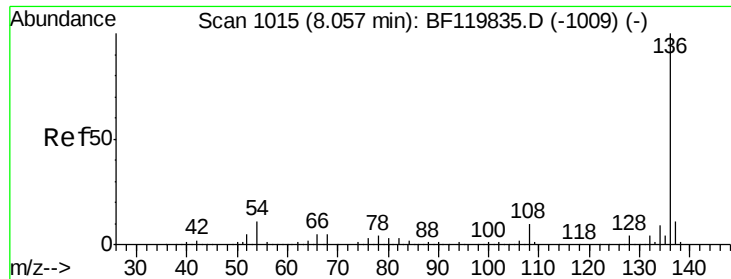
Delta R.T. -0.01 min

Lab File: BF120037.D

Acq: 16 Apr 2020 15:42

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
107	100		22408		
108	72.5	68.2	108.2		
77	38.7	86.6	126.6#		
79	24.1	7.7	47.7		





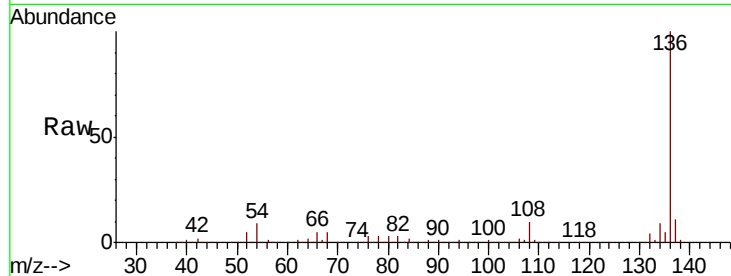
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.01 min Scan# 1007
Delta R.T. -0.00 min
Lab File: BF120037.D
Acq: 16 Apr 2020 15:42

Instrument :
BNA_F
ClientSampleId :
TP-2-3-4

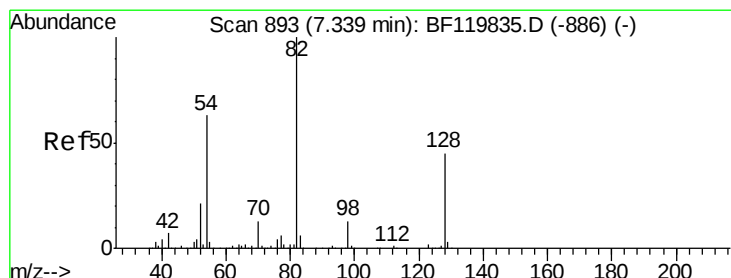
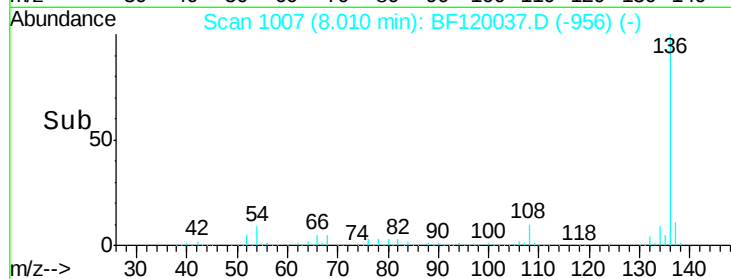
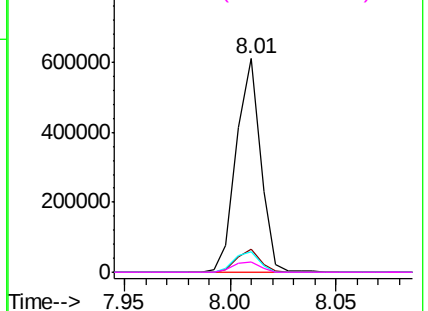
Tot Ion	Ratio	Resp	Lower	Upper
136	100	482623		
137	11.0		8.7	13.1
54	9.4		8.5	12.7
68	5.1		3.9	5.9

Manual Integrations
APPROVED

mohammad
4/17/2020 1:48:29 PM



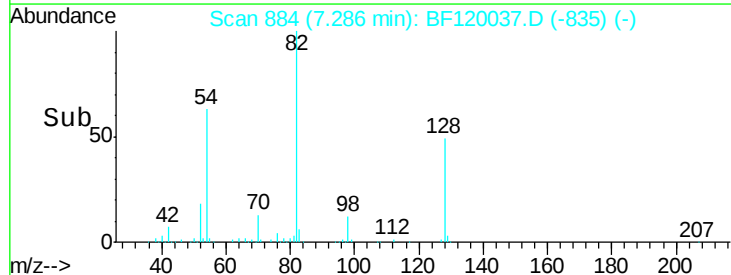
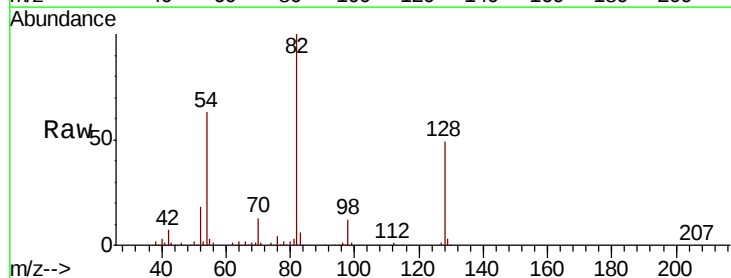
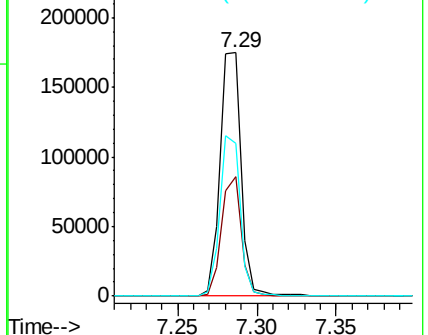
Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

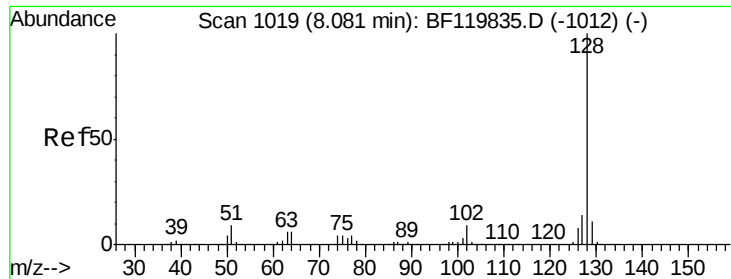


#23
Nitrobenzene-d5
Concen: 17.302 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.01 min
Lab File: BF120037.D
Acq: 16 Apr 2020 15:42

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	161408		
128	48.9		36.2	54.4
54	62.7		50.4	75.6

Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1





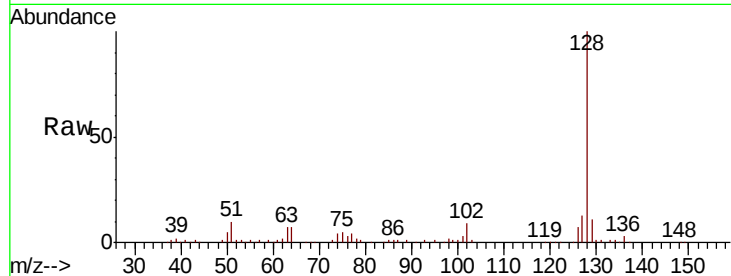
#31
Naphthalene
Concen: 3.638 ng
RT: 8.03 min Scan# 1010
Delta R.T. -0.01 min
Lab File: BF120037.D
Acq: 16 Apr 2020 15:42

Instrument :
BNA_F
ClientSampleId :
TP-2-3-4

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.6
127	13.0	11.0	16.4

Manual Integrations
APPROVED

mohammad
4/17/2020 1:48:29 PM

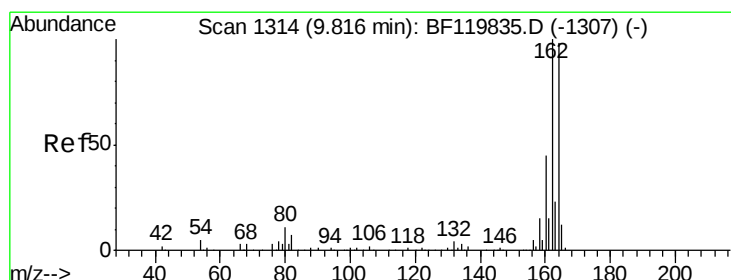
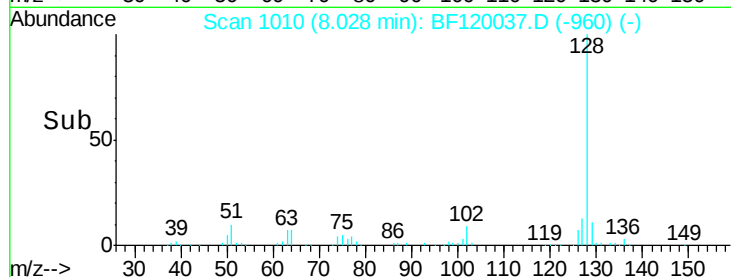
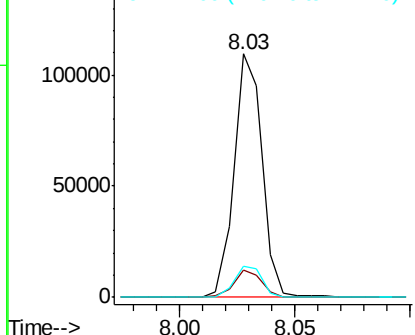


Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF120037.D
Acq: 16 Apr 2020 15:42

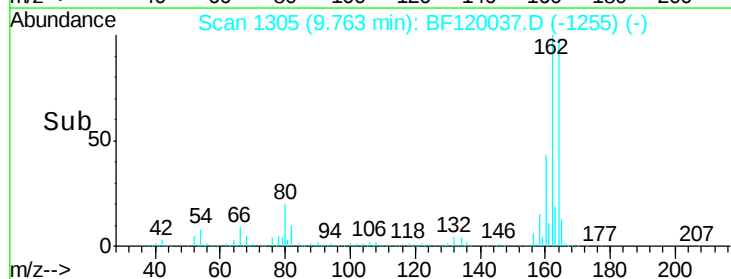
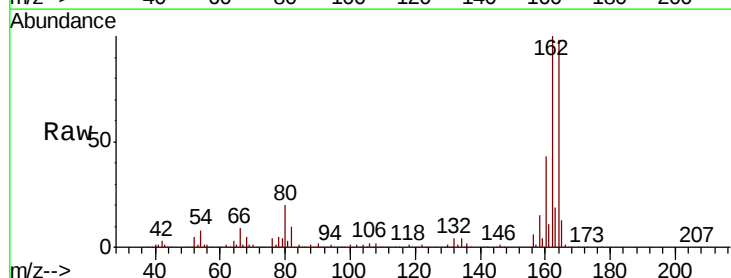
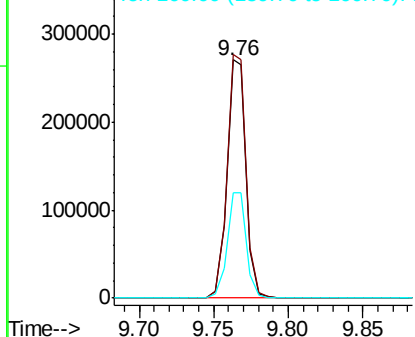
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.3	81.9	122.9
160	44.2	36.6	54.8

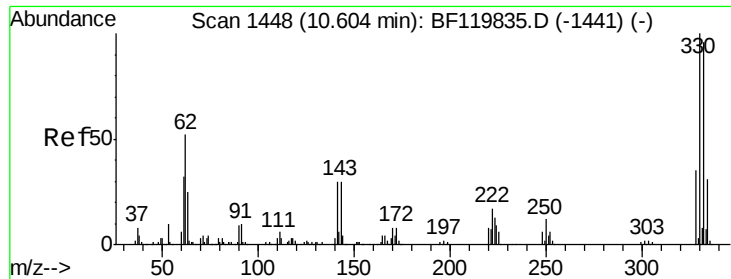
Abundance

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





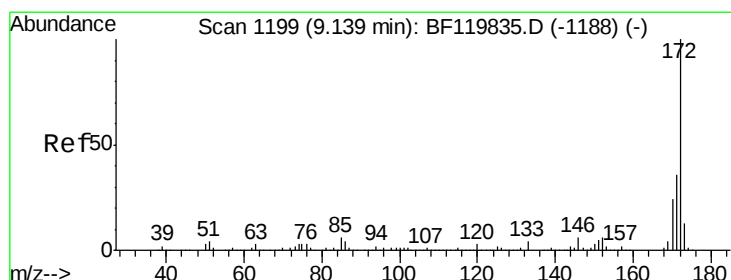
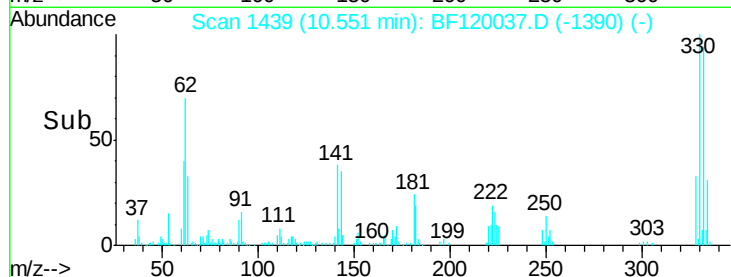
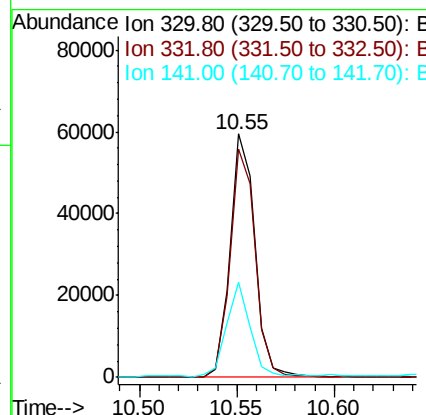
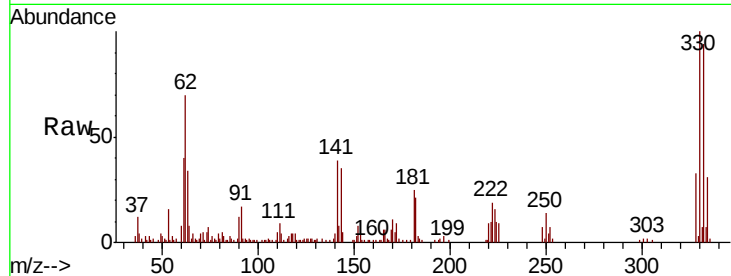
#42
 2,4,6-Tribromophenol
 Concen: 17.612 ng
 RT: 10.55 min Scan# 1439
 Delta R.T. -0.01 min
 Lab File: BF120037.D
 Acq: 16 Apr 2020 15:42

Instrument :
 BNA_F
 ClientSampleId :
 TP-2-3-4

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.5	76.8	115.2
141	40.5	25.1	37.7#

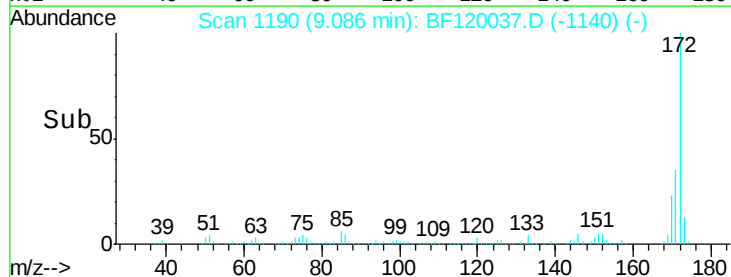
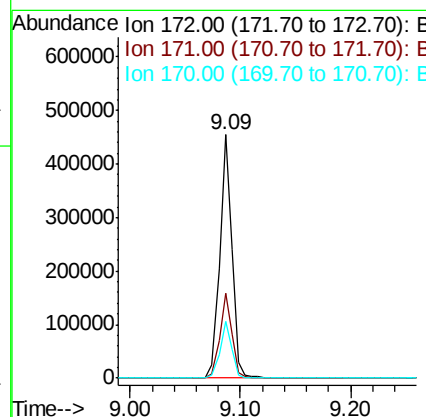
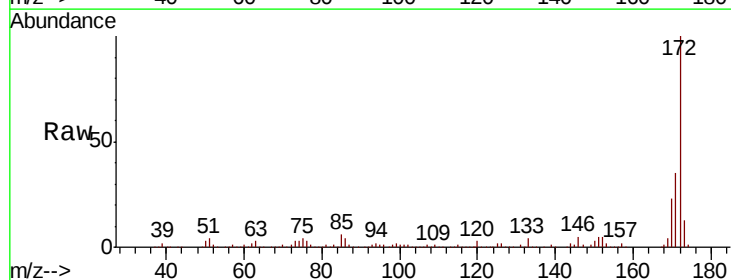
Manual Integrations
 APPROVED

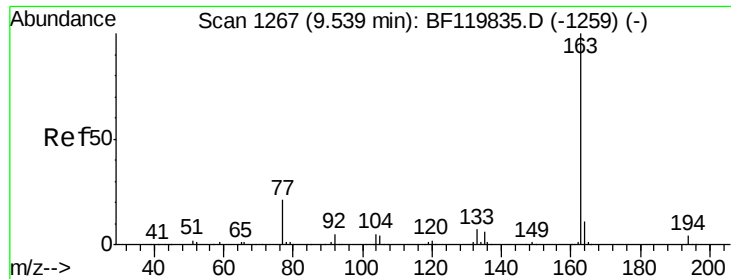
mohammad
 4/17/2020 1:48:29 PM



#45
 2-Fluorobiphenyl
 Concen: 19.986 ng
 RT: 9.09 min Scan# 1190
 Delta R.T. -0.01 min
 Lab File: BF120037.D
 Acq: 16 Apr 2020 15:42

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.9	43.3
170	23.1	19.4	29.2





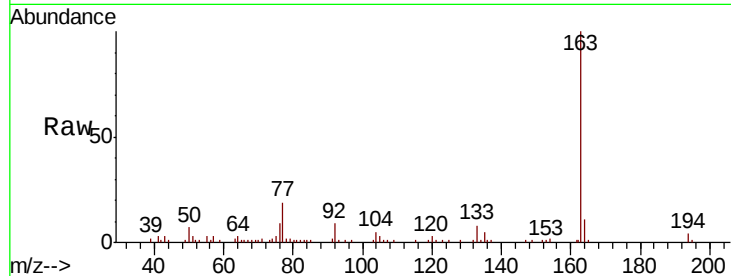
#50
Dimethylphthalate
Concen: 2.840 ng
RT: 9.49 min Scan# 1258
Delta R.T. -0.02 min
Lab File: BF120037.D
Acq: 16 Apr 2020 15:42

Instrument :
BNA_F
ClientSampleId :
TP-2-3-4

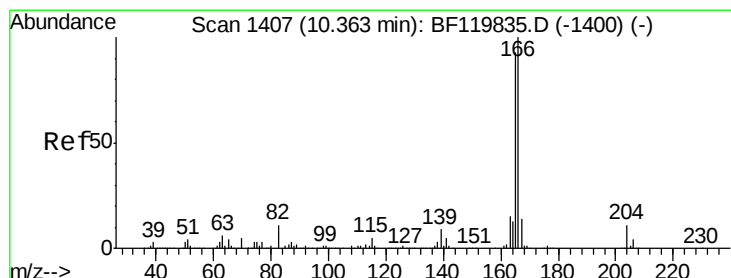
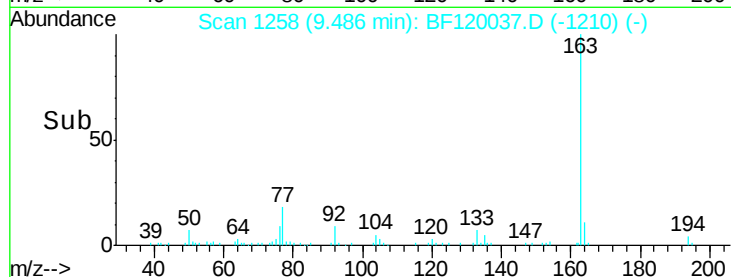
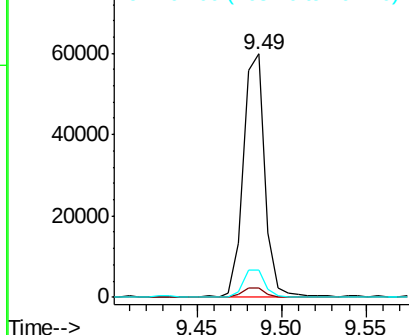
Tot Ion	Ratio	Resp	Lower	Upper
163	100	53494		
194	4.0		3.0	4.4
164	11.1		8.4	12.6

Manual Integrations
APPROVED

mohammad
4/17/2020 1:48:29 PM



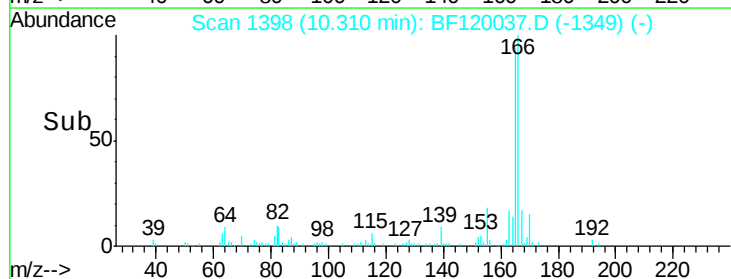
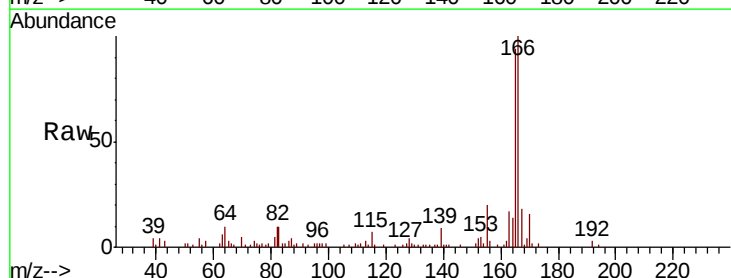
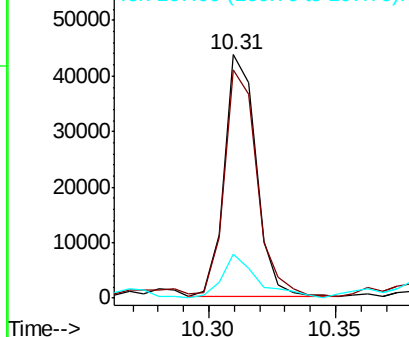
Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

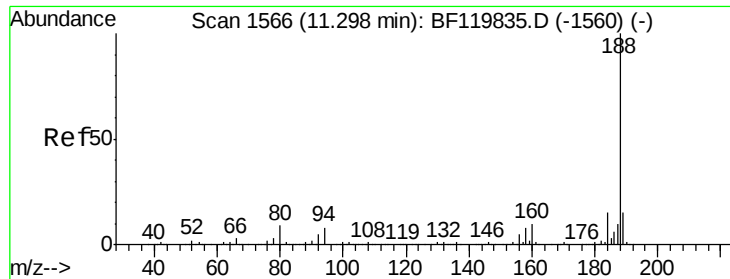


#58
Fluorene
Concen: 2.143 ng
RT: 10.31 min Scan# 1398
Delta R.T. -0.01 min
Lab File: BF120037.D
Acq: 16 Apr 2020 15:42

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	37774		
165	93.6		74.2	111.2
167	18.1		10.8	16.2#

Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





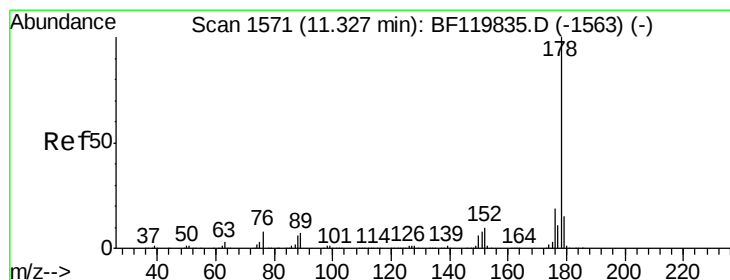
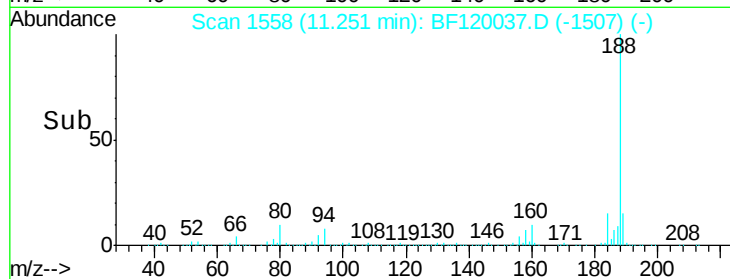
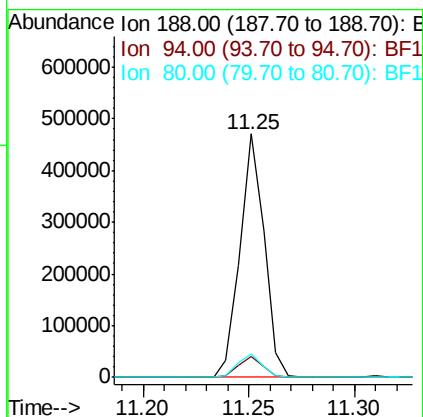
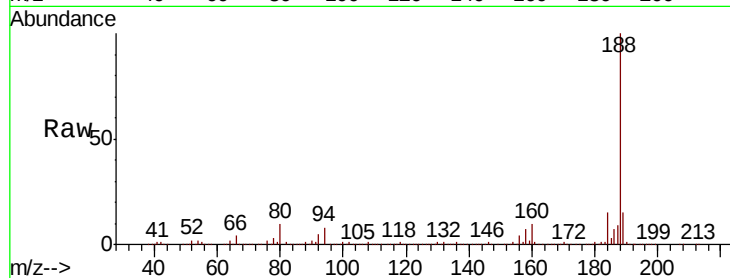
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.25 min Scan# 1558
Delta R.T. -0.00 min
Lab File: BF120037.D
Acq: 16 Apr 2020 15:42

Instrument :
BNA_F
ClientSampleId :
TP-2-3-4

Tot Ion	Ratio	Resp	Lower	Upper
188	100	373180		
94	8.5	6.7	10.1	
80	9.6	7.4	11.2	

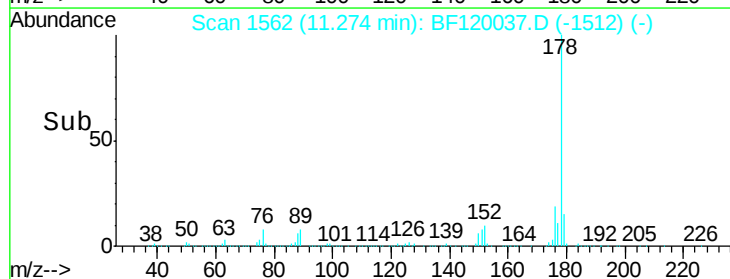
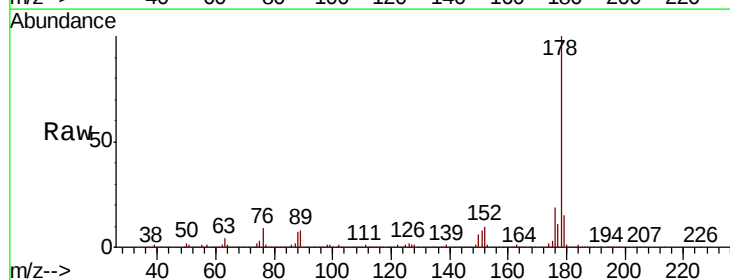
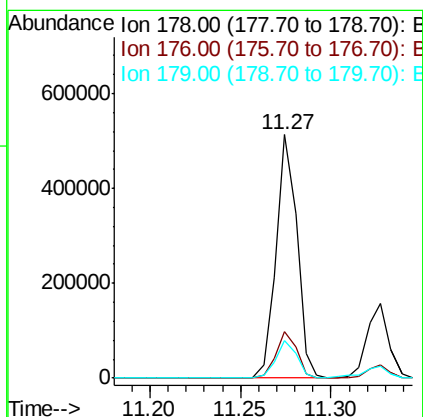
Manual Integrations
APPROVED

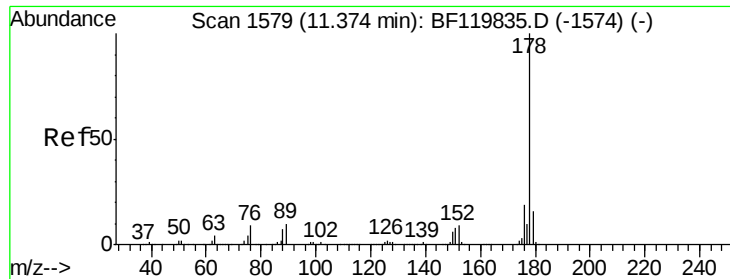
mohammad
4/17/2020 1:48:29 PM



#71
Phenanthrene
Concen: 20.766 ng
RT: 11.27 min Scan# 1562
Delta R.T. -0.01 min
Lab File: BF120037.D
Acq: 16 Apr 2020 15:42

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	412440		
176	19.3	15.1	22.7	
179	15.3	12.2	18.4	





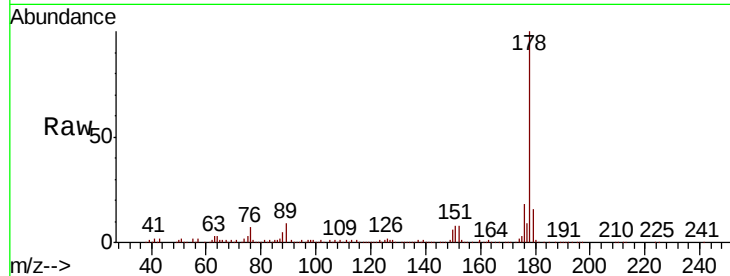
#72
 Anthracene
 Concen: 6.237 ng
 RT: 11.33 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: BF120037.D
 Acq: 16 Apr 2020 15:42

Instrument :
 BNA_F
 ClientSampleId :
 TP-2-3-4

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.4	23.2
179	16.1	12.8	19.2

Manual Integrations
 APPROVED

mohammad
 4/17/2020 1:48:29 PM

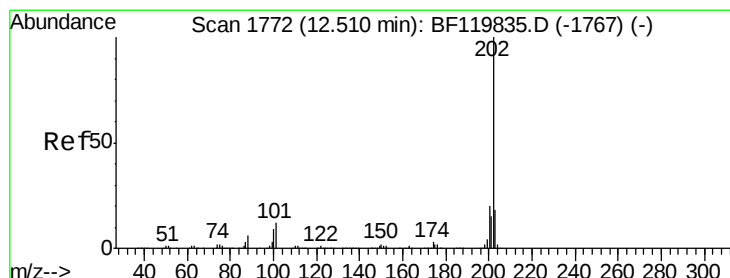
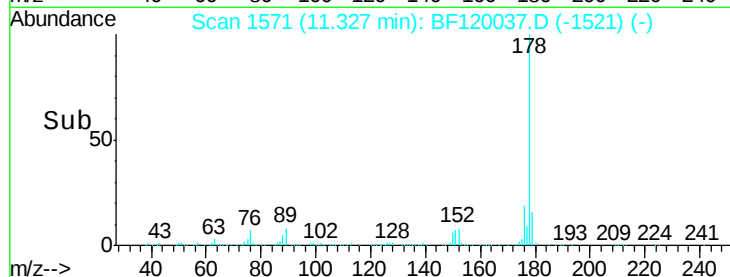
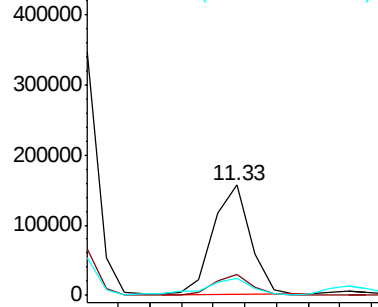


Abundance

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



#75
 Fluoranthene
 Concen: 27.798 ng
 RT: 12.47 min Scan# 1765
 Delta R.T. -0.00 min
 Lab File: BF120037.D
 Acq: 16 Apr 2020 15:42

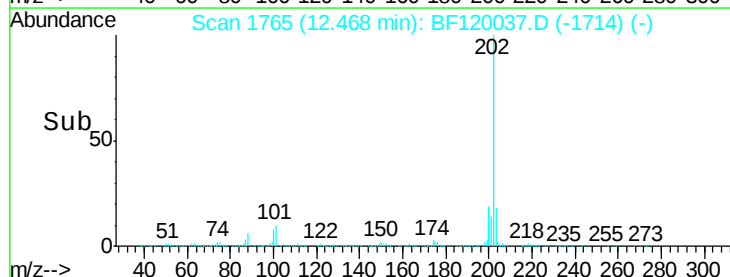
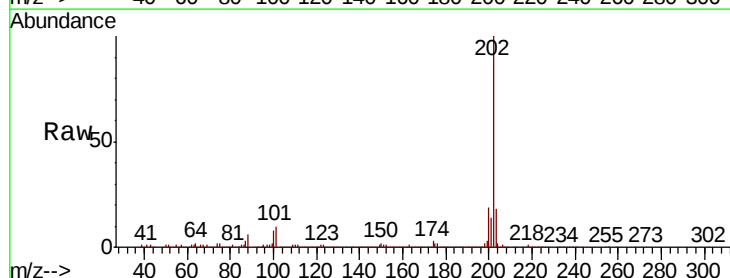
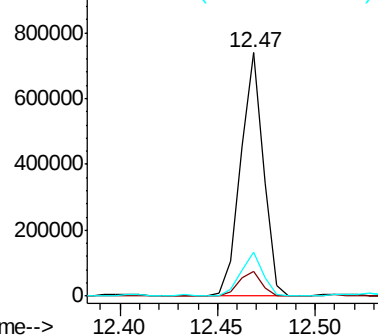
Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	32.3
203	17.8	0.0	37.6

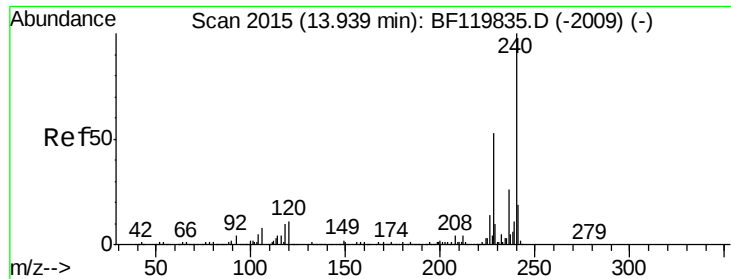
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





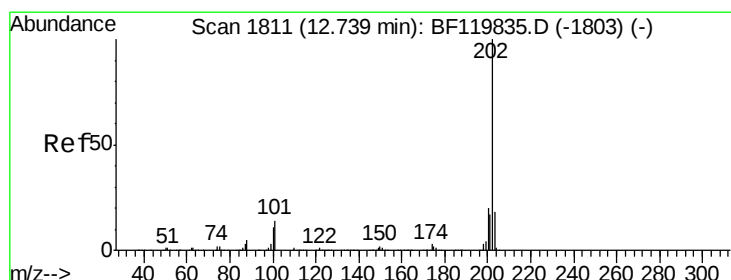
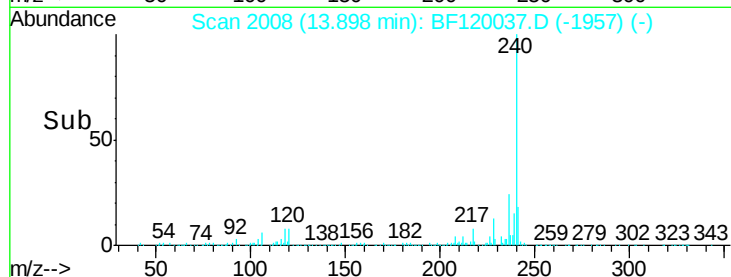
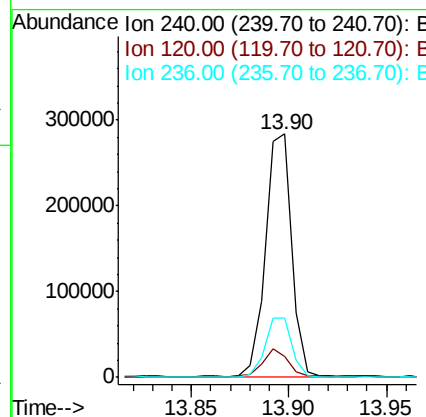
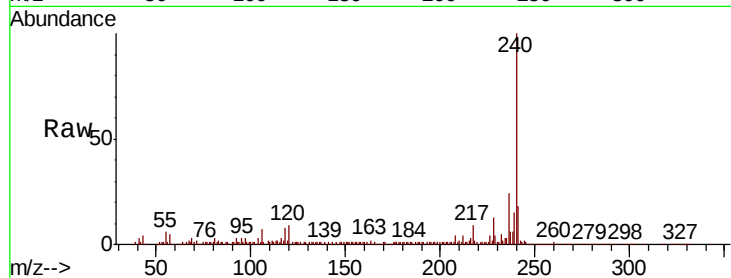
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.90 min Scan# 2008
Delta R.T. -0.00 min
Lab File: BF120037.D
Acq: 16 Apr 2020 15:42

Instrument :
BNA_F
ClientSampleId :
TP-2-3-4

Tot Ion	Ratio	Lower	Upper
240	100		
120	8.8	9.0	13.6#
236	24.2	20.7	31.1

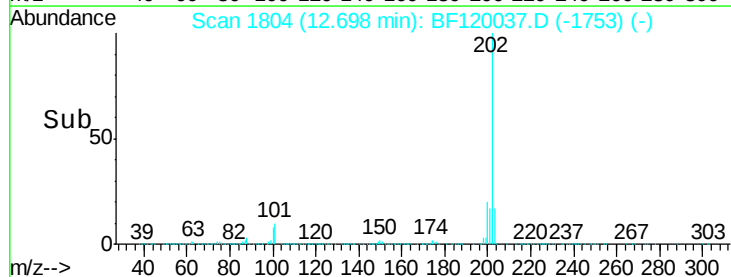
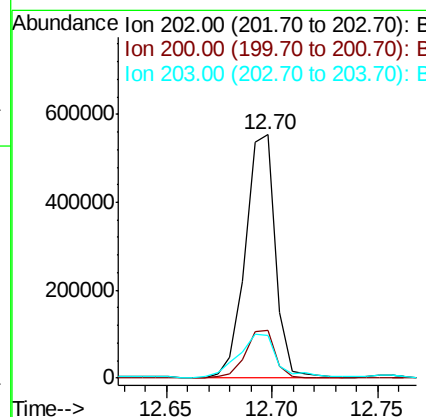
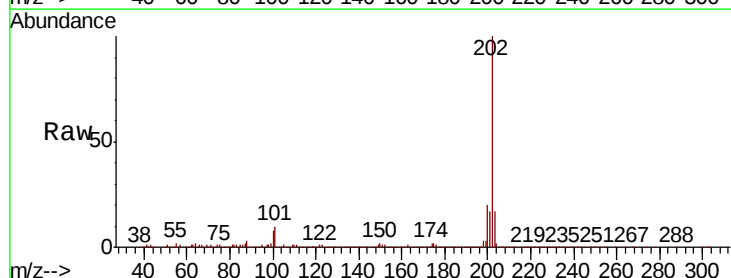
Manual Integrations
APPROVED

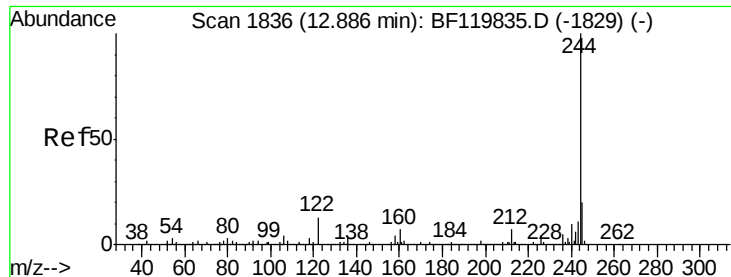
mohammad
4/17/2020 1:48:29 PM



#78
Pyrene
Concen: 24.558 ng
RT: 12.70 min Scan# 1804
Delta R.T. -0.00 min
Lab File: BF120037.D
Acq: 16 Apr 2020 15:42

Tgt Ion	Ratio	Lower	Upper
202	100		
200	19.7	16.2	24.2
203	17.4	14.1	21.1





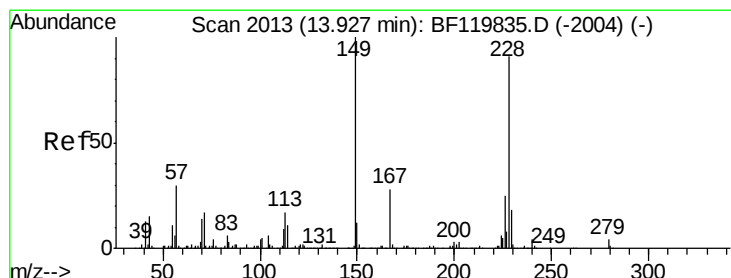
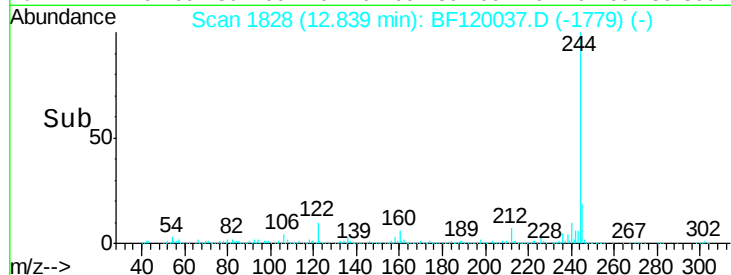
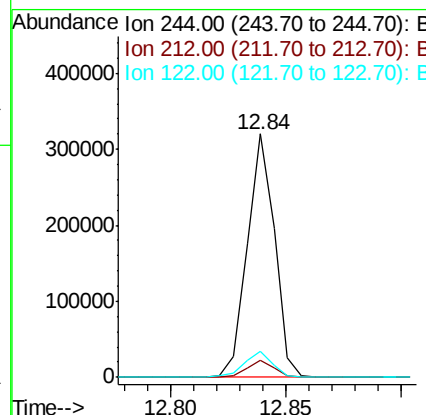
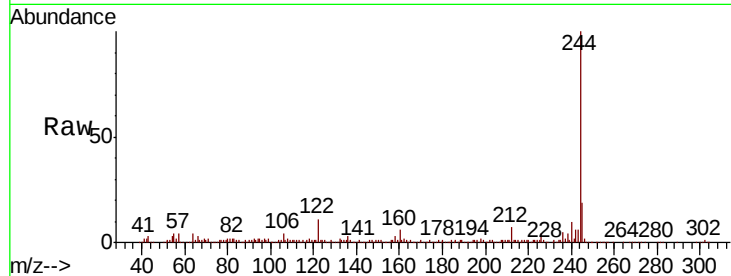
#79
 Terphenyl-d14
 Concen: 16.996 ng
 RT: 12.84 min Scan# 1828
 Delta R.T. -0.01 min
 Lab File: BF120037.D
 Acq: 16 Apr 2020 15:42

Instrument :
 BNA_F
 ClientSampleId :
 TP-2-3-4

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.0
122	10.7	10.3	15.5

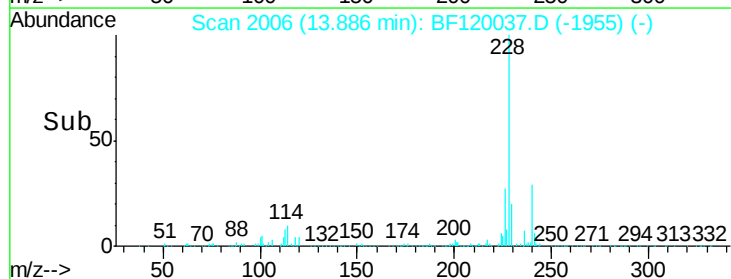
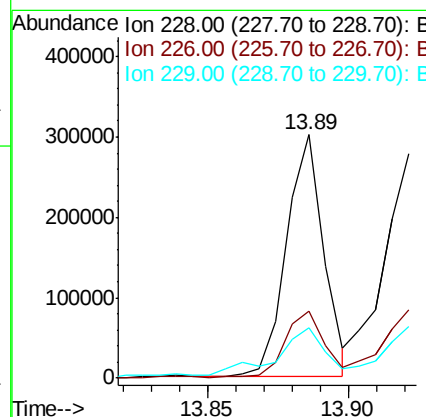
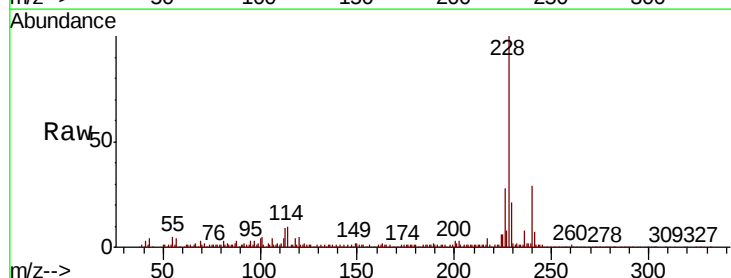
Manual Integrations
 APPROVED

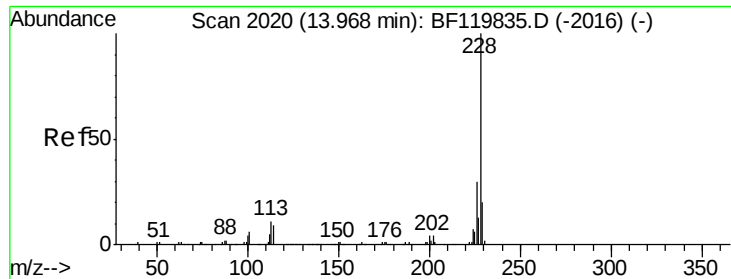
mohammad
 4/17/2020 1:48:29 PM



#81
 Benzo(a)anthracene
 Concen: 15.999 ng
 RT: 13.89 min Scan# 2006
 Delta R.T. -0.00 min
 Lab File: BF120037.D
 Acq: 16 Apr 2020 15:42

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.6	21.9	32.9
229	20.7	15.9	23.9





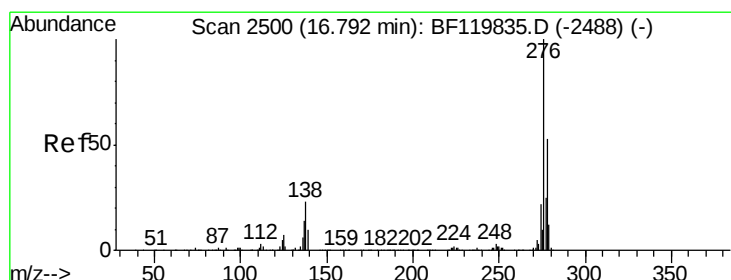
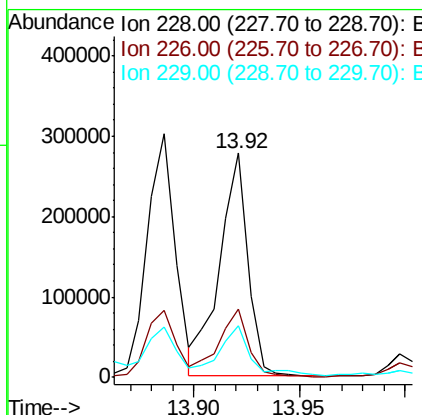
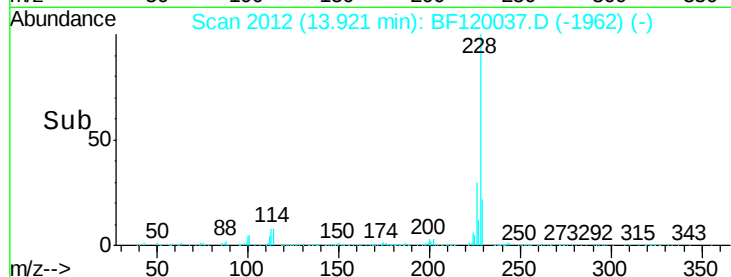
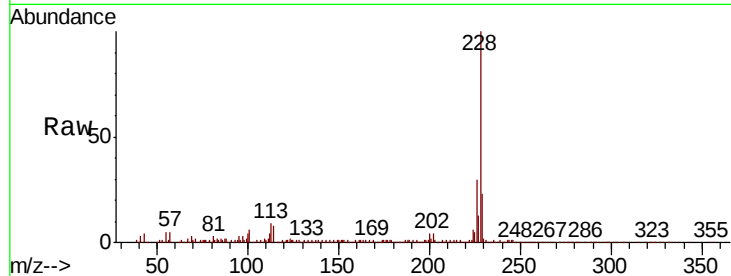
#83
Chrysene
Concen: 14.795 ng
RT: 13.92 min Scan# 2012
Delta R.T. -0.01 min
Lab File: BF120037.D
Acq: 16 Apr 2020 15:42

Instrument :
BNA_F
ClientSampleId :
TP-2-3-4

Tot Ion:	228	Resp:	259182
Ion Ratio	Lower	Upper	
228	100		
226	30.4	24.2	36.2
229	23.1	15.9	23.9

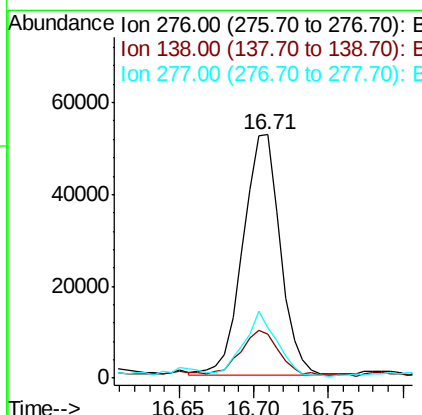
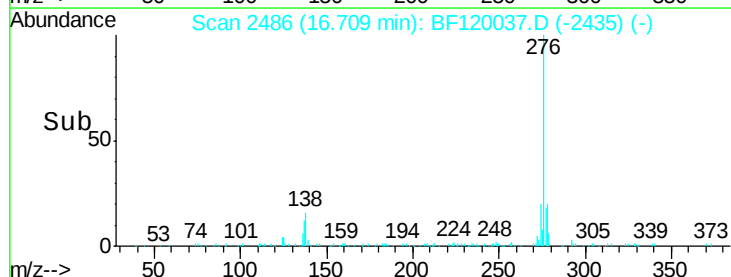
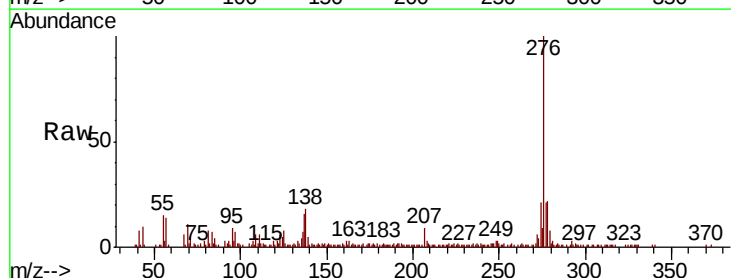
Manual Integrations
APPROVED

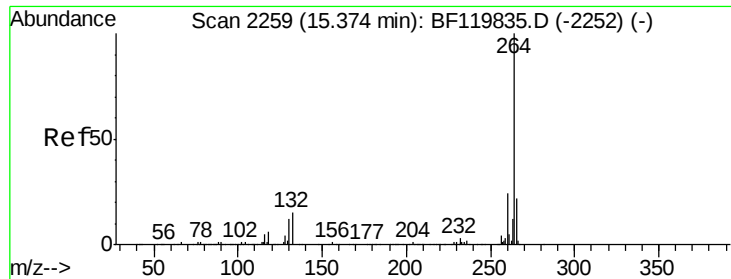
mohammad
4/17/2020 1:48:29 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 5.916 ng
RT: 16.71 min Scan# 2486
Delta R.T. -0.00 min
Lab File: BF120037.D
Acq: 16 Apr 2020 15:42

Tgt Ion:	276	Resp:	91353
Ion Ratio	Lower	Upper	
276	100		
138	19.1	18.0	27.0
277	23.8	20.1	30.1





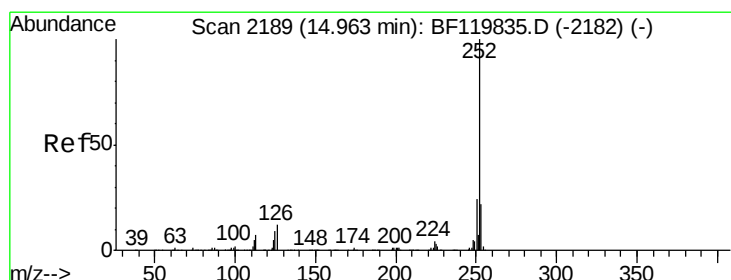
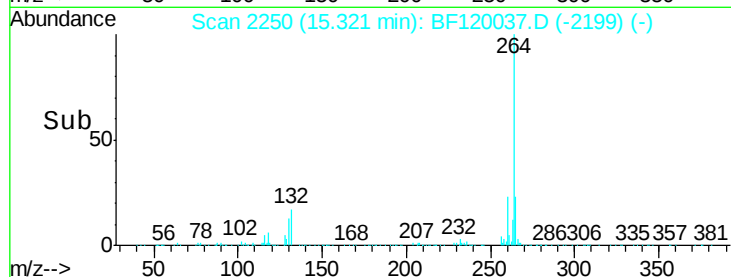
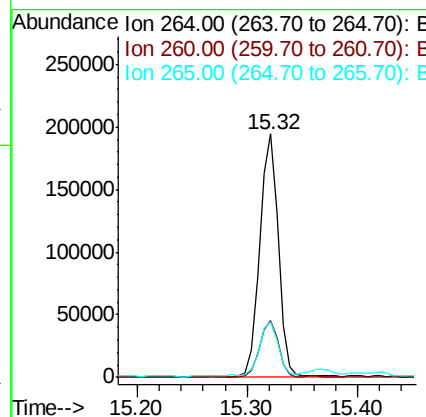
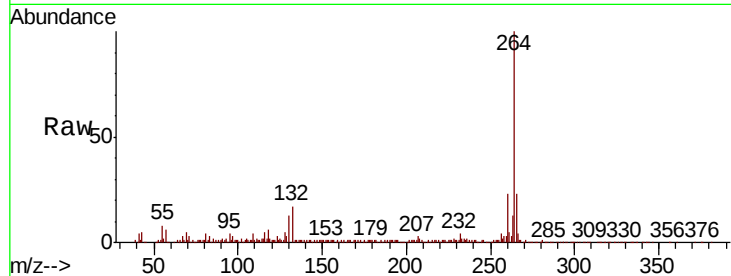
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.32 min Scan# 2250
Delta R.T. -0.00 min
Lab File: BF120037.D
Acq: 16 Apr 2020 15:42

Instrument :
BNA_F
ClientSampleId :
TP-2-3-4

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.3	28.9
265	22.9	17.6	26.4

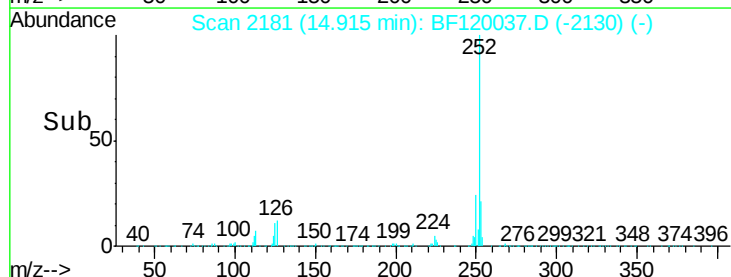
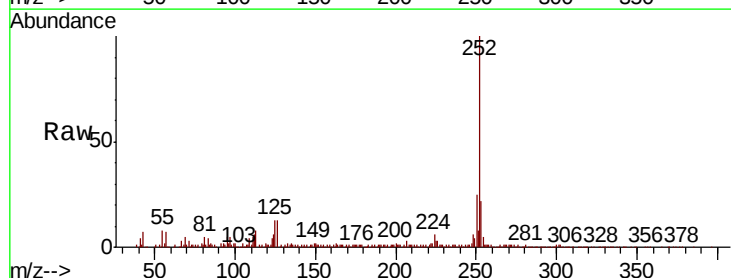
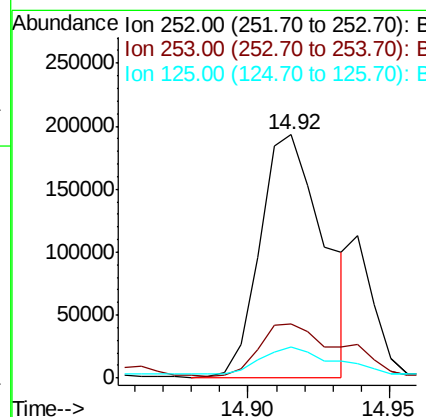
Manual Integrations
APPROVED

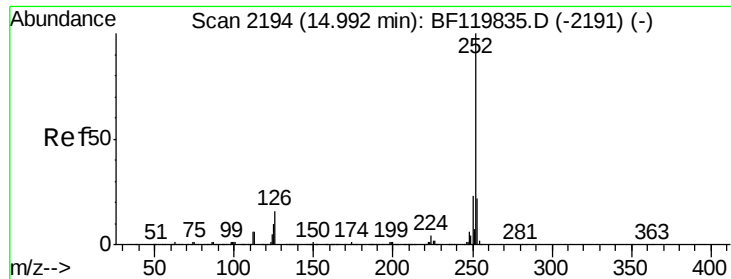
mohammad
4/17/2020 1:48:29 PM



#88
Benzo(b)fluoranthene
Concen: 18.042 ng m
RT: 14.92 min Scan# 2181
Delta R.T. -0.00 min
Lab File: BF120037.D
Acq: 16 Apr 2020 15:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	12.6	7.4	11.2#





#89

Benzo(k)fluoranthene

Concen: 4.547 ng m

RT: 14.94 min Scan# 2185

Delta R.T. -0.01 min

Lab File: BF120037.D

Acq: 16 Apr 2020 15:42

Instrument :

BNA_F

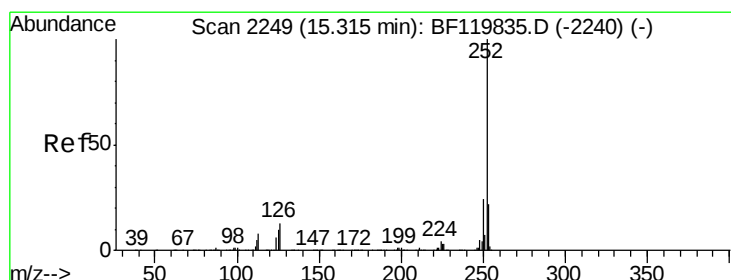
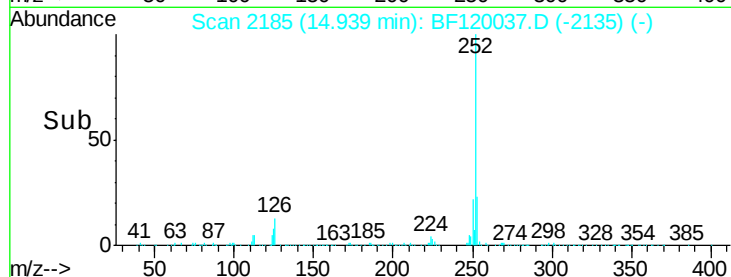
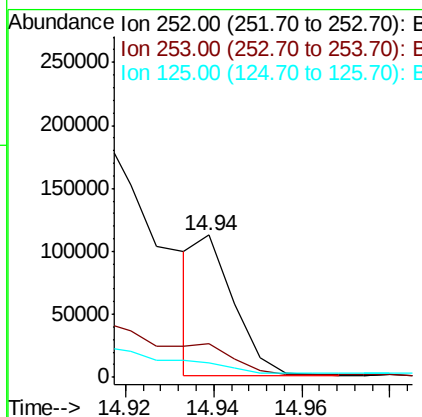
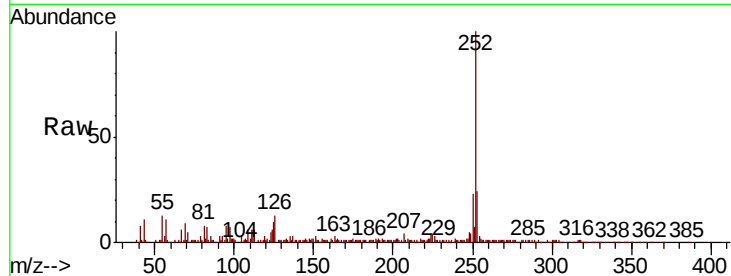
ClientSampleId :

TP-2-3-4

Tot Ion:	252	Resp:	65747
Ion Ratio	Lower	Upper	
252	100		
253	23.9	17.8	26.8
125	10.4	7.7	11.5

Manual Integrations
APPROVED

mohammad
4/17/2020 1:48:29 PM



#90

Benzo(a)pyrene

Concen: 14.143 ng

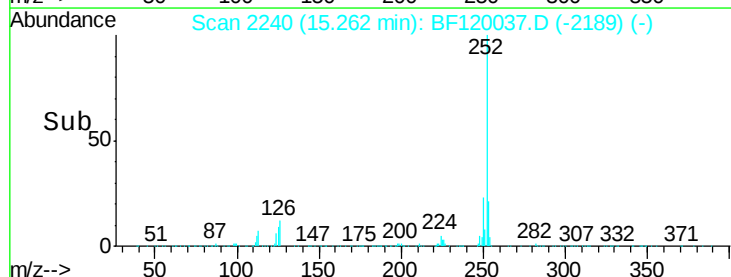
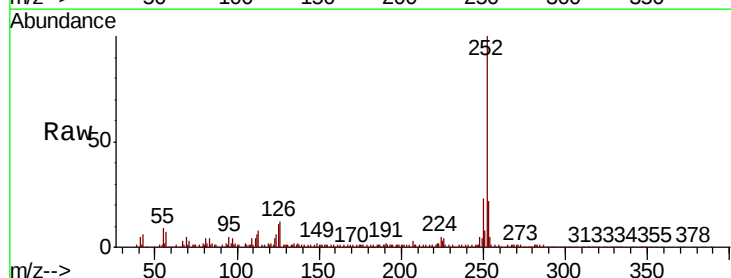
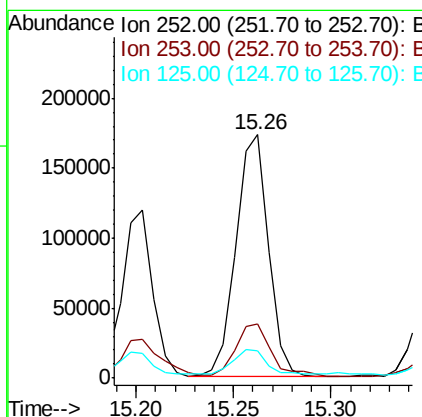
RT: 15.26 min Scan# 2240

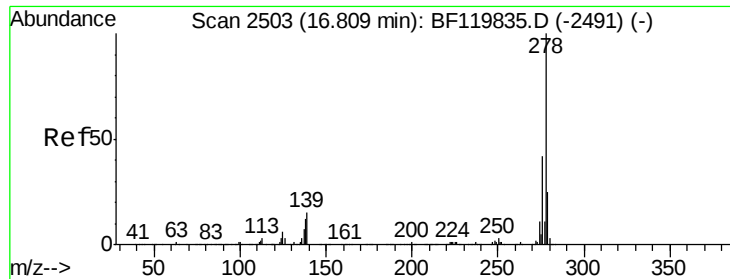
Delta R.T. -0.00 min

Lab File: BF120037.D

Acq: 16 Apr 2020 15:42

Tgt Ion:	252	Resp:	199291
Ion Ratio	Lower	Upper	
252	100		
253	22.0	17.4	26.2
125	11.1	8.3	12.5





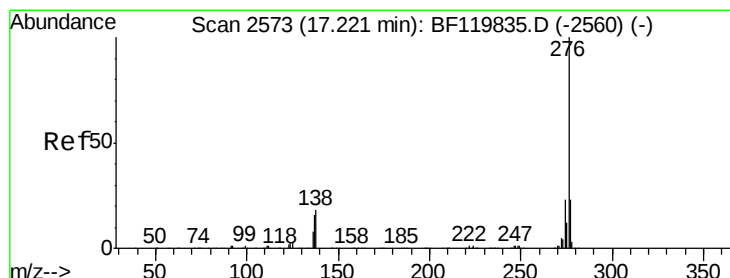
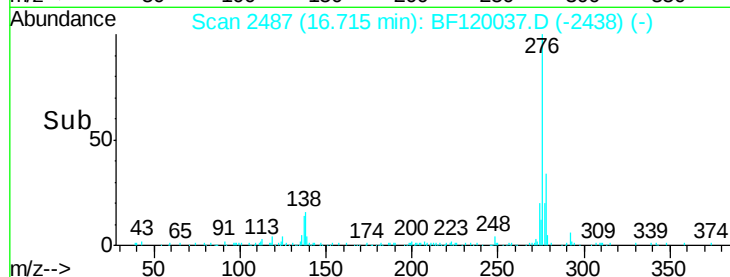
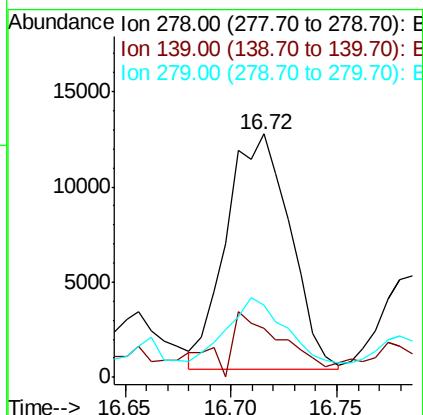
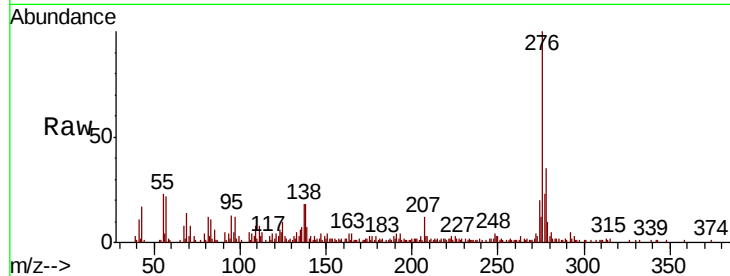
#91
Dibenzo(a,h)anthracene
Concen: 2.061 ng
RT: 16.72 min Scan# 2487
Delta R.T. -0.01 min
Lab File: BF120037.D
Acq: 16 Apr 2020 15:42

Instrument :
BNA_F
ClientSampleId :
TP-2-3-4

Tot Ion	Ratio	Lower	Upper
278	100		
139	20.0	11.6	17.4#
279	29.4	19.7	29.5

Manual Integrations
APPROVED

mohammad
4/17/2020 1:48:29 PM



#92
Benzo(g,h,i)perylene
Concen: 6.425 ng
RT: 17.12 min Scan# 2556
Delta R.T. -0.01 min
Lab File: BF120037.D
Acq: 16 Apr 2020 15:42

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.7	18.5	27.7
138	22.5	14.6	22.0#

