

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
 Data File : BF120652.D
 Acq On : 18 Jun 2020 20:01
 Operator : JU/CG
 Sample : L3037-04
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SL-WC-02C

Manual Integrations
 APPROVED

mohammad
 6/19/2020 12:58:10 PM

Quant Time: Jun 19 01:42:20 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 11 11:28:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	154588	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	550344	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	272737	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	501780	20.00	ng	0.00
76) Chrysene-d12	13.96	240	392993	20.00	ng	0.00
86) Perylene-d12	15.41	264	327594	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	731493	81.13	ng	0.00
7) Phenol-d6	6.44	99	883532	78.67	ng	0.00
23) Nitrobenzene-d5	7.36	82	551950	56.06	ng	0.00
42) 2,4,6-Tribromophenol	10.63	330	254505	80.26	ng	0.00
45) 2-Fluorobiphenyl	9.16	172	1089325	61.11	ng	0.00
79) Terphenyl-d14	12.91	244	1190104	66.89	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.10	128	59628	2.207	ng	98
37) 2-Methylnaphthalene	8.79	142	44727m	2.535	ng	
38) 1-Methylnaphthalene	8.89	142	50367	3.034	ng	# 97
49) Acenaphthylene	9.70	152	156705	6.097	ng	98
50) Dimethylphthalate	9.55	163	115774	5.894	ng	99
58) Fluorene	10.38	166	61780	3.410	ng	98
71) Phenanthrene	11.35	178	606905	24.331	ng	99
72) Anthracene	11.40	178	143208	5.696	ng	98
75) Fluoranthene	12.53	202	536790	18.823	ng	100
78) Pyrene	12.76	202	773893	27.798	ng	99
81) Benzo(a)anthracene	13.95	228	338796m	14.349	ng	
83) Chrysene	13.99	228	335220	13.841	ng	97
87) Indeno(1,2,3-cd)pyrene	16.83	276	108462	5.443	ng	96
88) Benzo(b)fluoranthene	14.99	252	275302m	14.108	ng	
89) Benzo(k)fluoranthene	15.02	252	63453m	3.675	ng	
90) Benzo(a)pyrene	15.34	252	202277	11.582	ng	# 96
92) Benzo(a,h,i)perylene	17.27	276	129716	8.054	ng	97

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

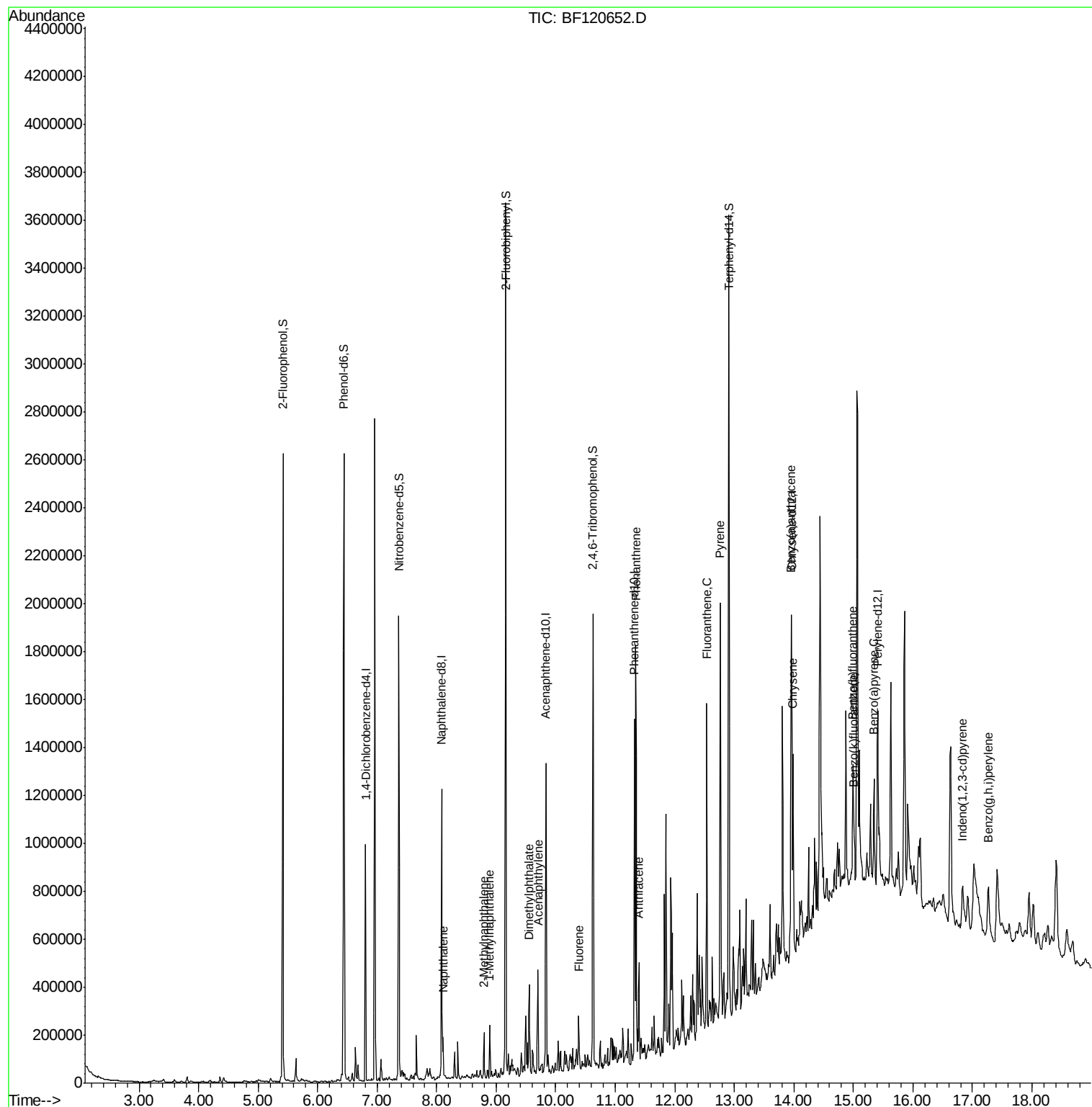
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120652.D
Acq On : 18 Jun 2020 20:01
Operator : JU/CG
Sample : L3037-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

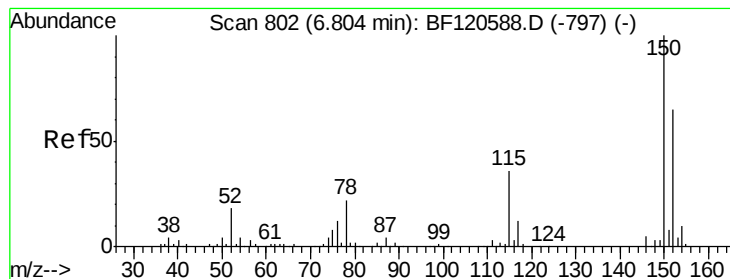
Instrument :
BNA_F
ClientSampleId :
SL-WC-02C

Manual Integrations
APPROVED

mohammad
6/19/2020 12:58:10 PM

Quant Time: Jun 19 01:42:20 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 11 11:28:22 2020
Response via : Initial Calibration





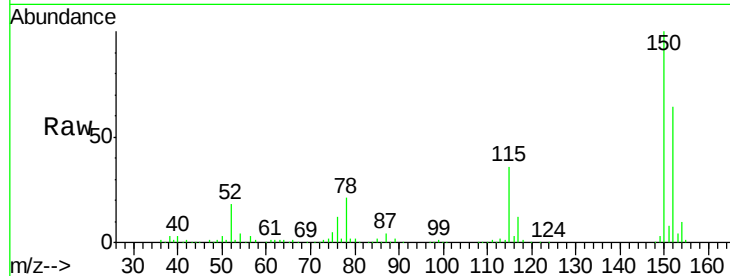
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.80 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: BF120652.D
 Acq: 18 Jun 2020 20:01

Instrument :
 BNA_F
 ClientSampleId :
 SL-WC-02C

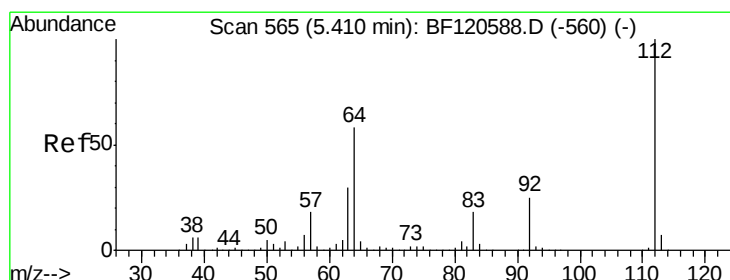
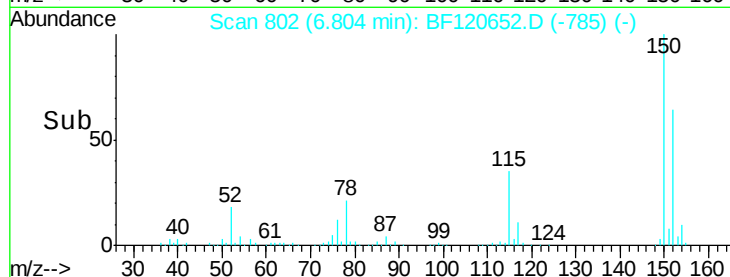
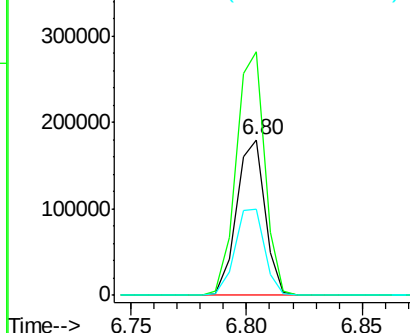
Tot Ion	Ratio	Lower	Upper
152	100		
150	156.8	123.2	184.8
115	55.7	43.9	65.9

Manual Integrations
 APPROVED

mohammad
 6/19/2020 12:58:10 PM

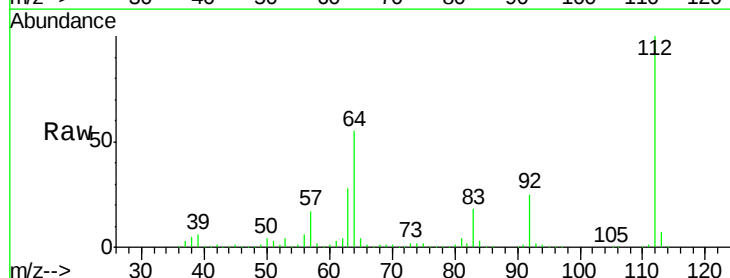


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

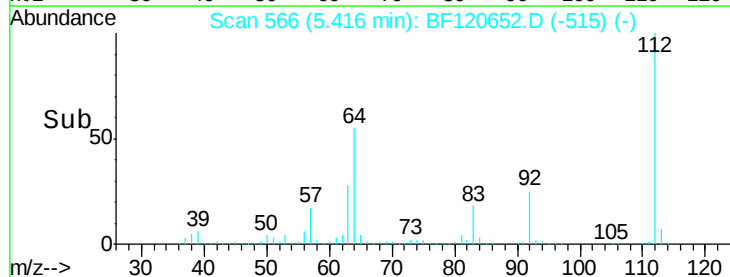
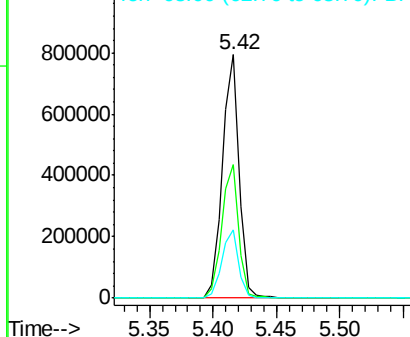


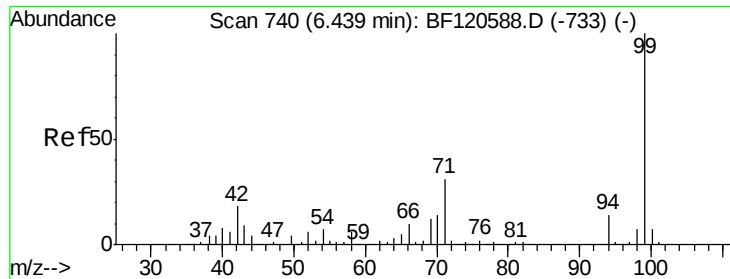
#5
 2-Fluorophenol
 Concen: 81.126 ng
 RT: 5.42 min Scan# 566
 Delta R.T. 0.00 min
 Lab File: BF120652.D
 Acq: 18 Jun 2020 20:01

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.7	46.1	69.1
63	28.1	23.7	35.5



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF1
 Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 78.674 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.00 min

Lab File: BF120652.D

Acq: 18 Jun 2020 20:01

Instrument :

BNA_F

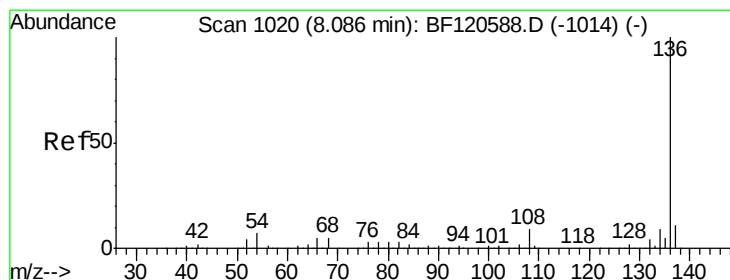
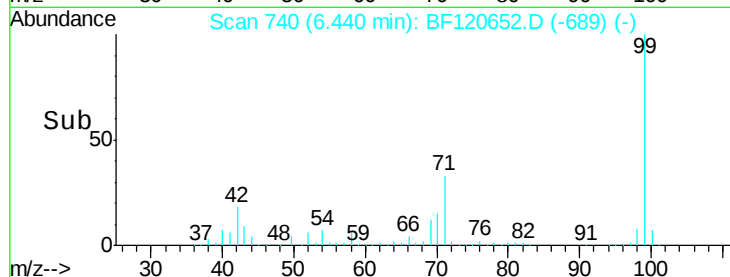
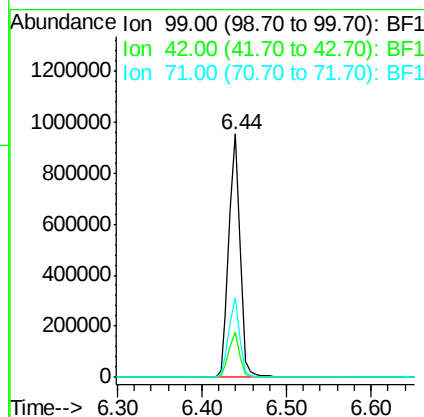
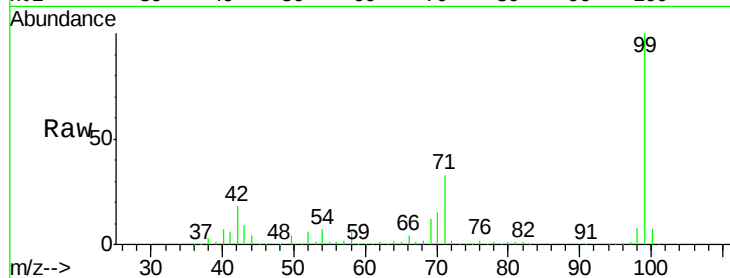
ClientSampleId :

SL-WC-02C

Tot Ion:	99	Resp:	883532
Ion Ratio	Lower	Upper	
99	100		
42	18.4	14.0	21.0
71	32.6	24.9	37.3

Manual Integrations
APPROVED

mohammad
6/19/2020 12:58:10 PM



#21

Naphthalene-d8

Concen: 20.000 ng

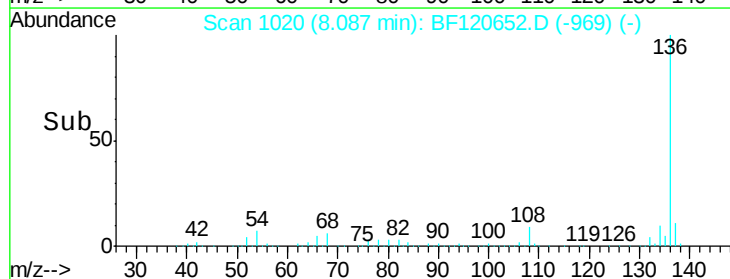
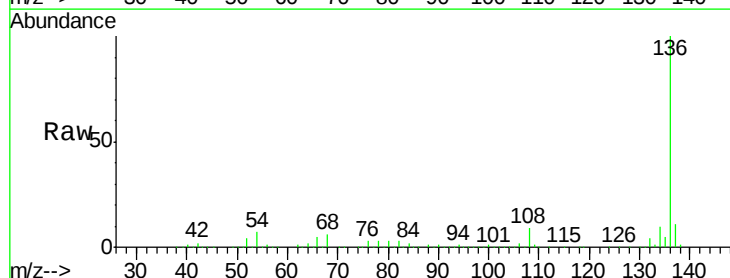
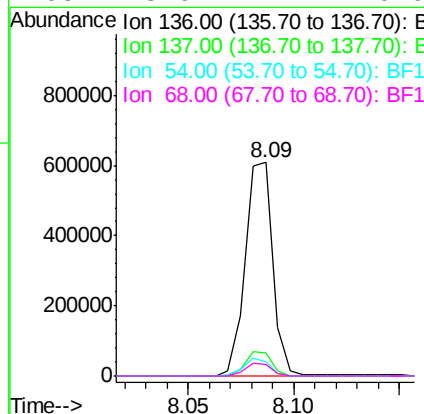
RT: 8.09 min Scan# 1020

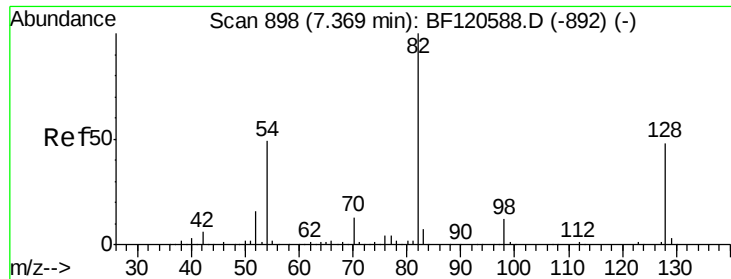
Delta R.T. 0.00 min

Lab File: BF120652.D

Acq: 18 Jun 2020 20:01

Tgt Ion:	136	Resp:	550344
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.6	13.0
54	6.8	5.8	8.6
68	5.6	4.4	6.6





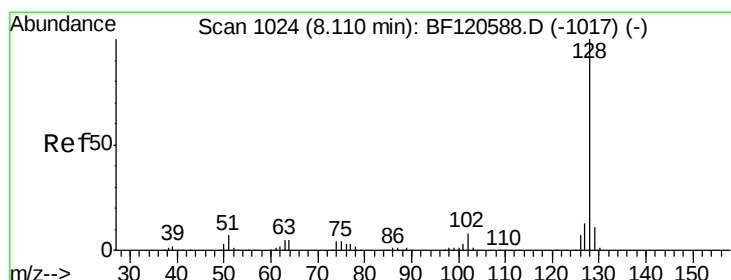
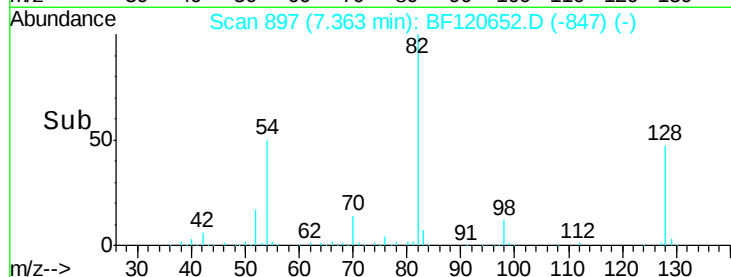
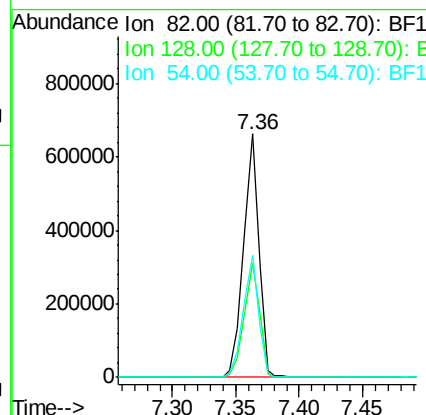
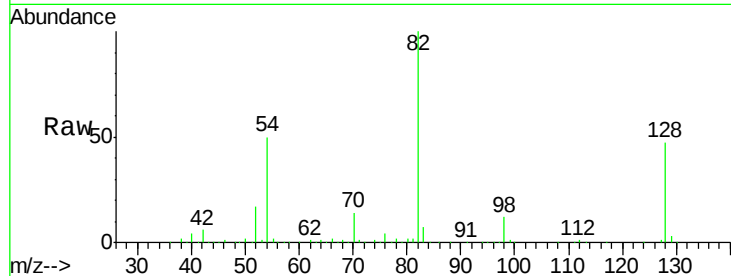
#23
Nitrobenzene-d5
Concen: 56.060 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.01 min
Lab File: BF120652.D
Acq: 18 Jun 2020 20:01

Instrument :
BNA_F
ClientSampled :
SL-WC-02C

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.9	38.0	57.0
54	50.3	38.8	58.2

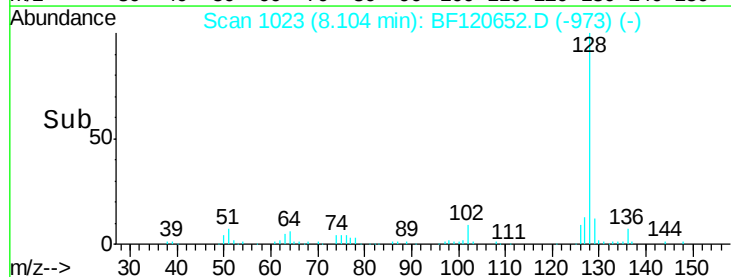
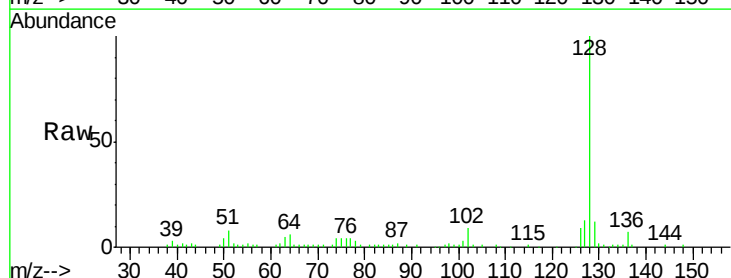
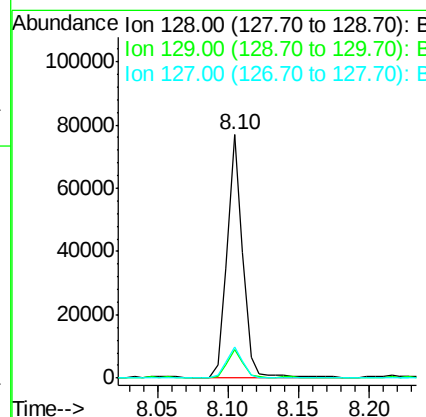
Manual Integrations
APPROVED

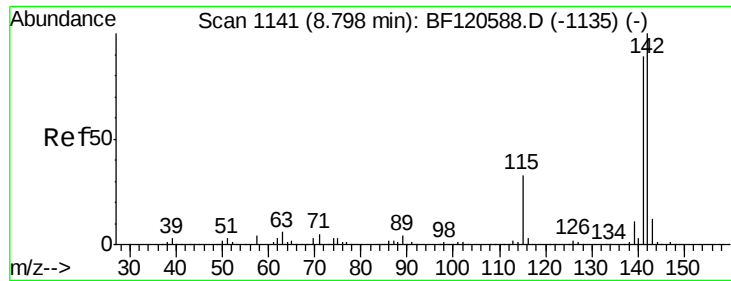
mohammad
6/19/2020 12:58:10 PM



#31
Naphthalene
Concen: 2.207 ng
RT: 8.10 min Scan# 1023
Delta R.T. -0.01 min
Lab File: BF120652.D
Acq: 18 Jun 2020 20:01

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.6	8.8	13.2
127	12.6	10.6	15.8





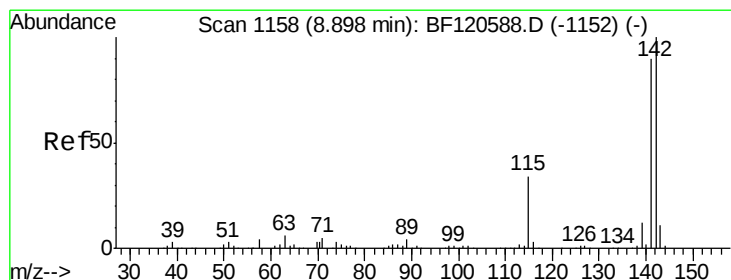
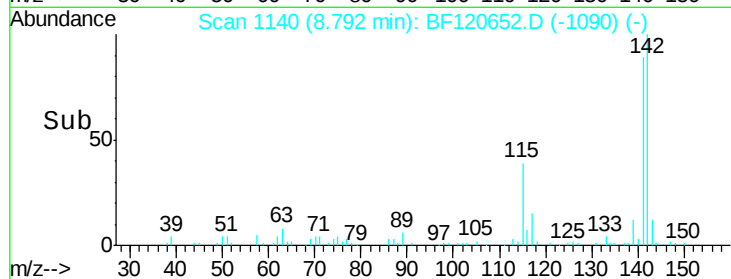
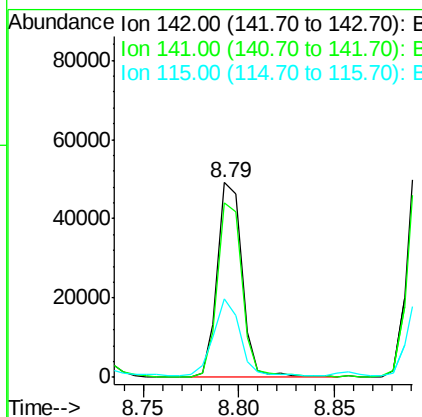
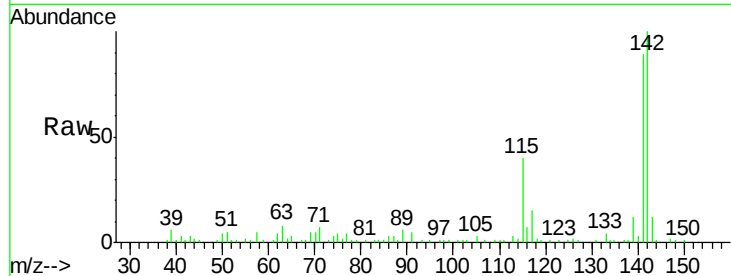
#37
2-Methylnaphthalene
Concen: 2.535 ng m
RT: 8.79 min Scan# 1140
Delta R.T. -0.01 min
Lab File: BF120652.D
Acq: 18 Jun 2020 20:01

Instrument :
BNA_F
ClientSampleId :
SL-WC-02C

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.4	107.0
115	40.2	26.1	39.1#

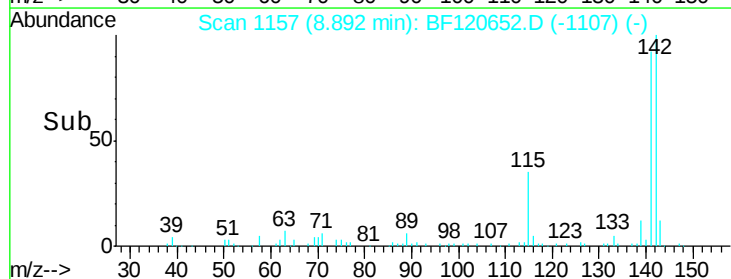
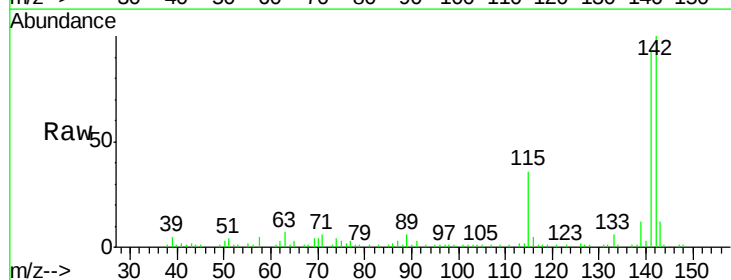
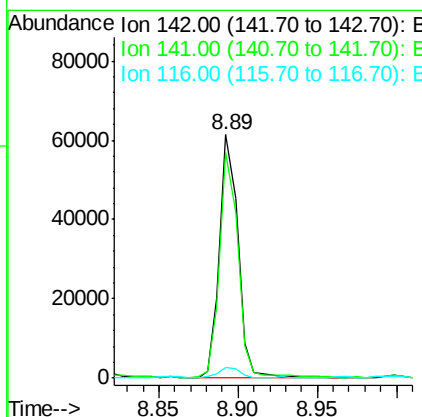
Manual Integrations
APPROVED

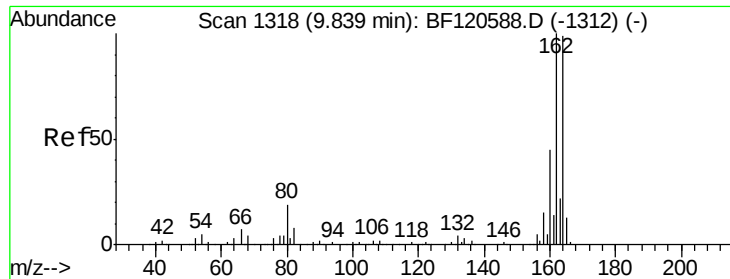
mohammad
6/19/2020 12:58:10 PM



#38
1-Methylnaphthalene
Concen: 3.034 ng
RT: 8.89 min Scan# 1157
Delta R.T. -0.01 min
Lab File: BF120652.D
Acq: 18 Jun 2020 20:01

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.6	72.1	108.1
116	4.6	2.7	4.1#





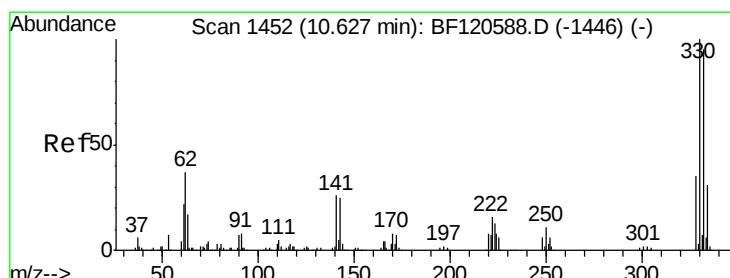
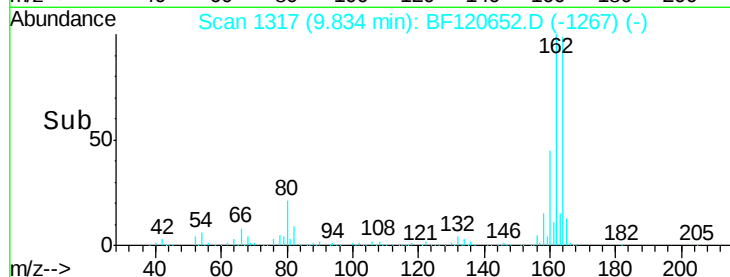
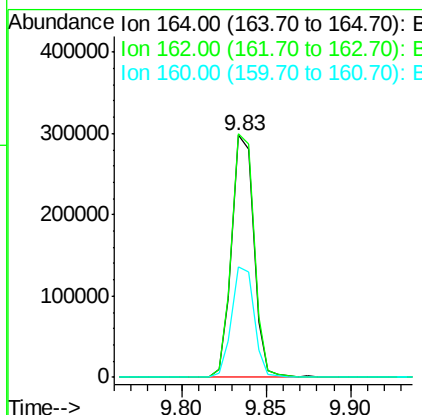
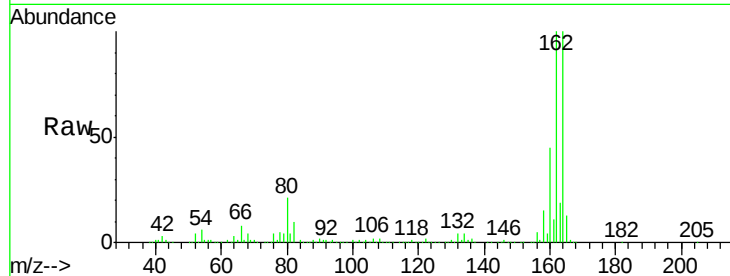
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1317
Delta R.T. -0.01 min
Lab File: BF120652.D
Acq: 18 Jun 2020 20:01

Instrument :
BNA_F
ClientSampleId :
SL-WC-02C

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	100.5	80.6	120.8	
160	45.5	36.2	54.2	

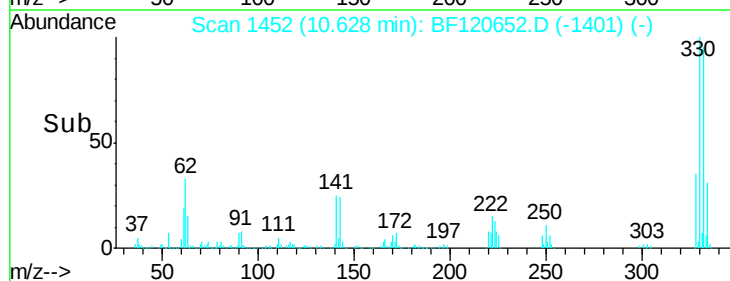
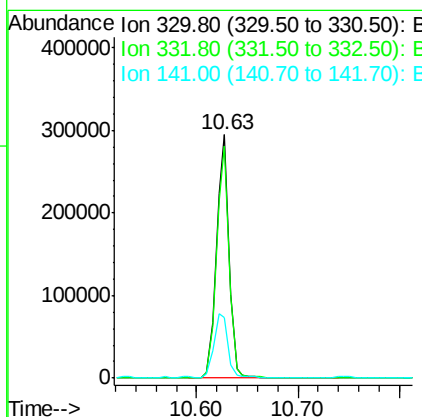
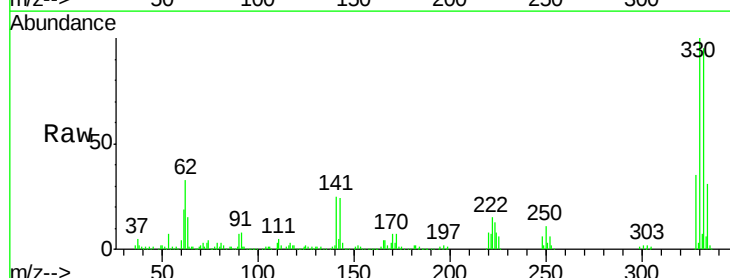
Manual Integrations
APPROVED

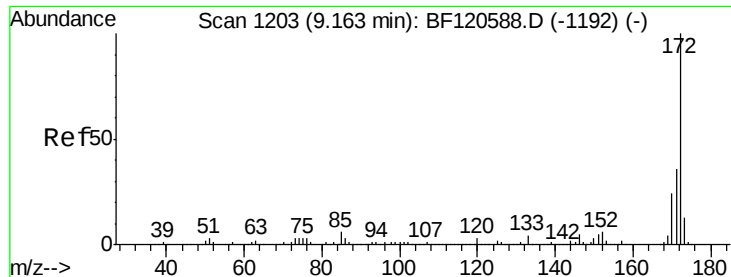
mohammad
6/19/2020 12:58:10 PM



#42
2,4,6-Tribromophenol
Concen: 80.262 ng
RT: 10.63 min Scan# 1452
Delta R.T. 0.00 min
Lab File: BF120652.D
Acq: 18 Jun 2020 20:01

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.8	76.8	115.2	
141	29.2	23.2	34.8	





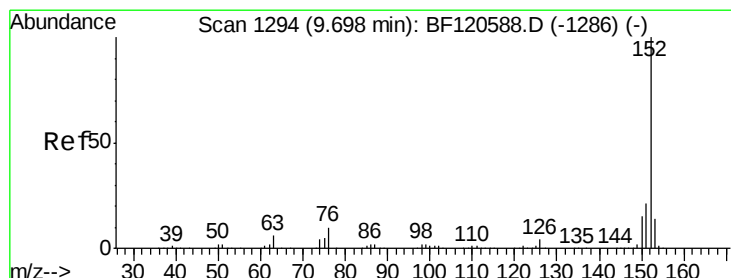
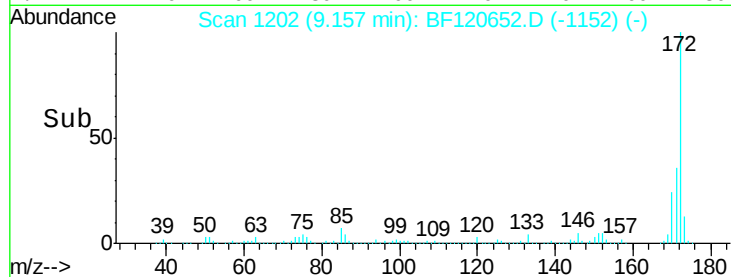
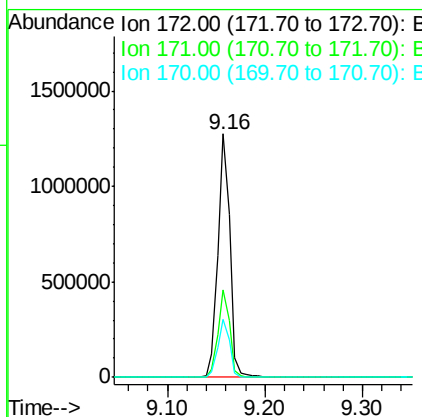
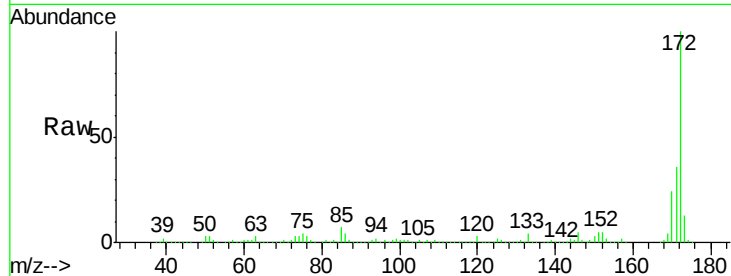
#45
2-Fluorobiphenyl
Concen: 61.108 ng
RT: 9.16 min Scan# 1202
Delta R.T. -0.01 min
Lab File: BF120652.D
Acq: 18 Jun 2020 20:01

Instrument :
BNA_F
ClientSampleId :
SL-WC-02C

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.0	43.4
170	23.9	19.4	29.2

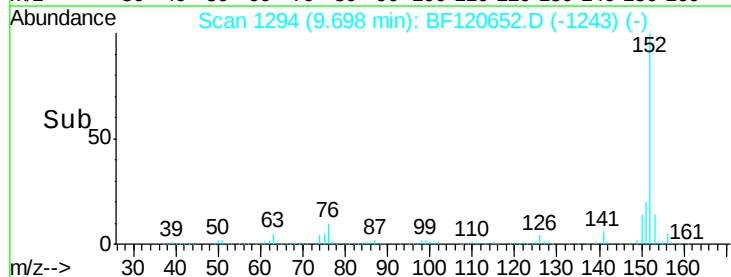
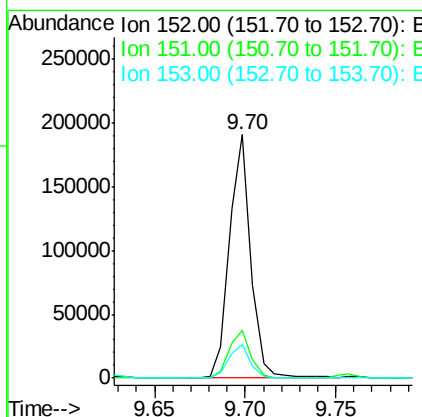
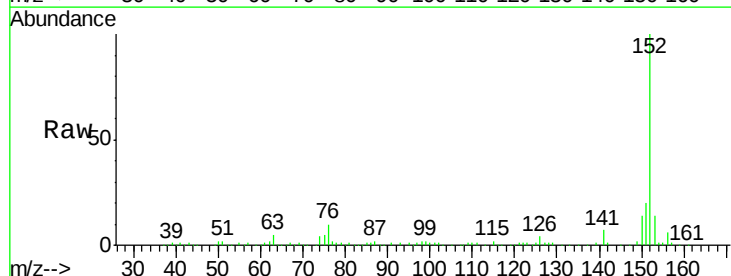
Manual Integrations
APPROVED

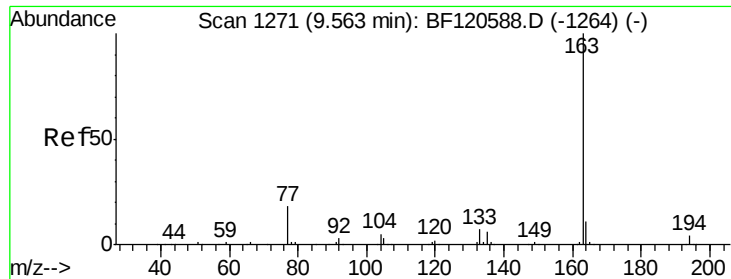
mohammad
6/19/2020 12:58:10 PM



#49
Acenaphthylene
Concen: 6.097 ng
RT: 9.70 min Scan# 1294
Delta R.T. 0.00 min
Lab File: BF120652.D
Acq: 18 Jun 2020 20:01

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.6	25.0
153	13.7	11.0	16.6





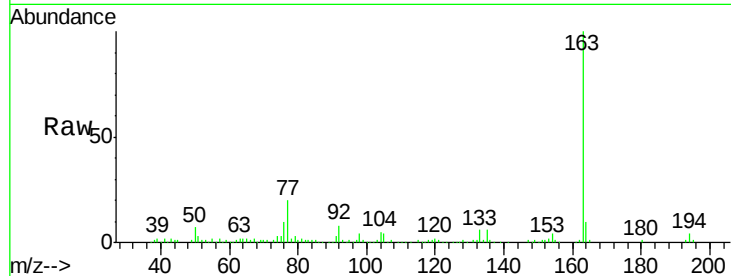
#50
Dimethylphthalate
Concen: 5.894 ng
RT: 9.55 min Scan# 1269
Delta R.T. -0.01 min
Lab File: BF120652.D
Acq: 18 Jun 2020 20:01

Instrument :
BNA_F
ClientSampleId :
SL-WC-02C

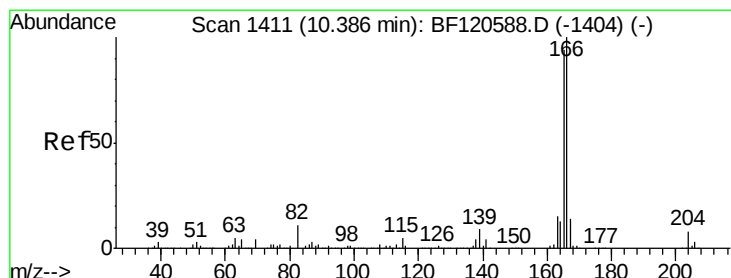
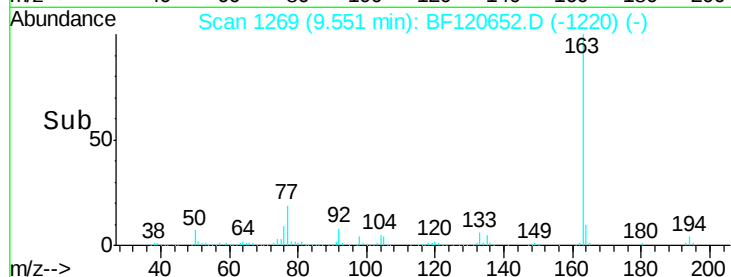
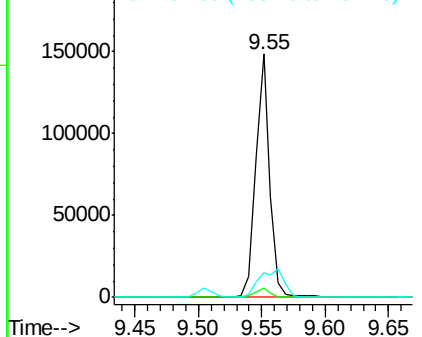
Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.8	3.1	4.7	
164	10.2	8.5	12.7	

Manual Integrations
APPROVED

mohammad
6/19/2020 12:58:10 PM

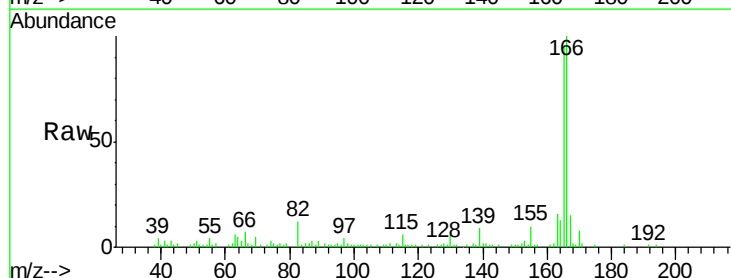


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

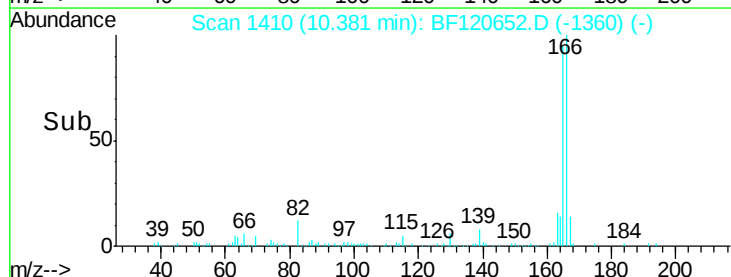
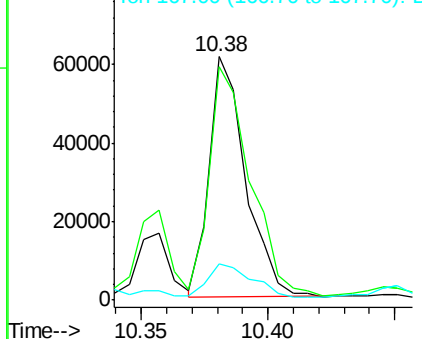


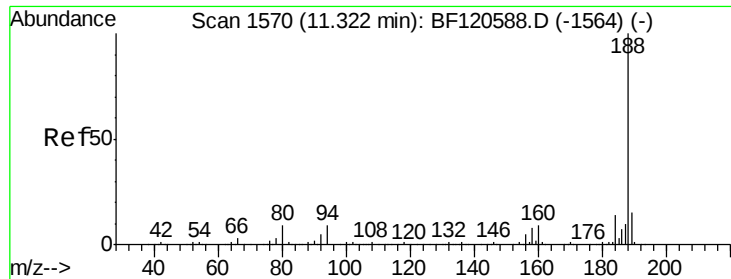
#58
Fluorene
Concen: 3.410 ng
RT: 10.38 min Scan# 1410
Delta R.T. -0.01 min
Lab File: BF120652.D
Acq: 18 Jun 2020 20:01

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	95.9	75.0	112.6	
167	15.0	11.0	16.4	



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





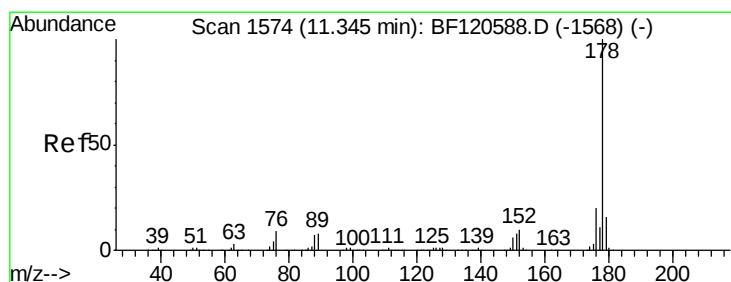
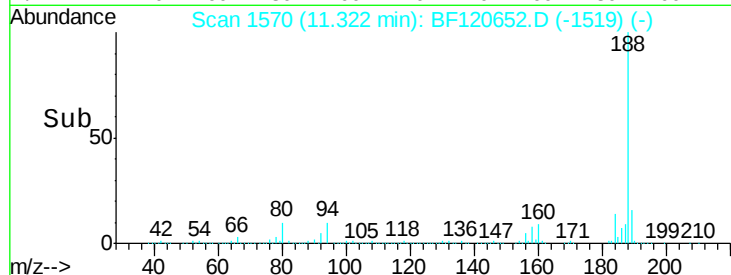
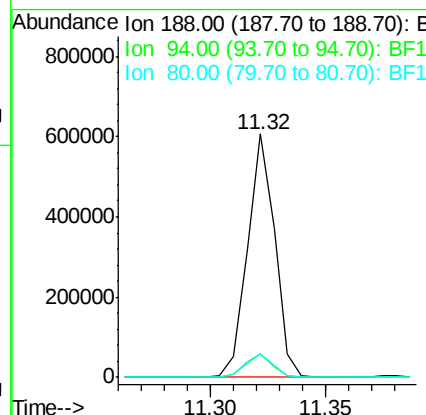
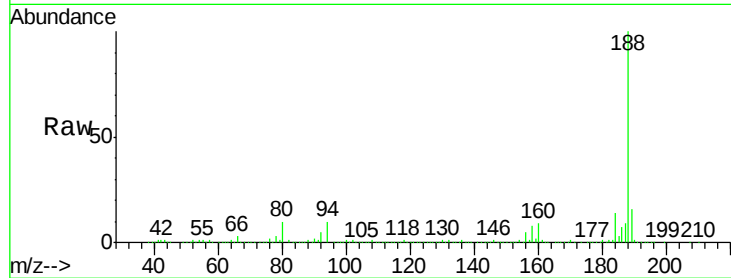
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.32 min Scan# 1570
Delta R.T. 0.00 min
Lab File: BF120652.D
Acq: 18 Jun 2020 20:01

Instrument :
BNA_F
ClientSampleId :
SL-WC-02C

Tot Ion	Ratio	Resp	Lower	Upper
188	100	501780		
94	9.6		7.2	10.8
80	9.7		7.4	11.2

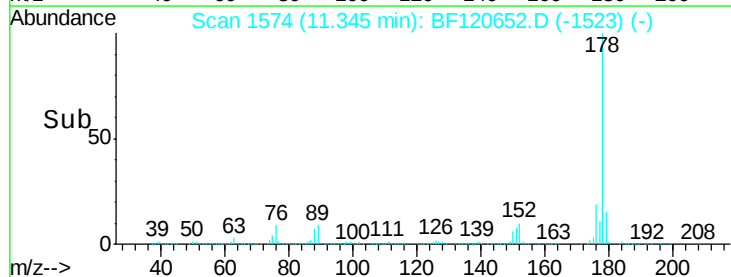
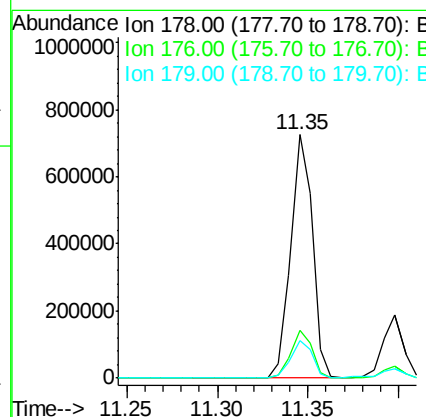
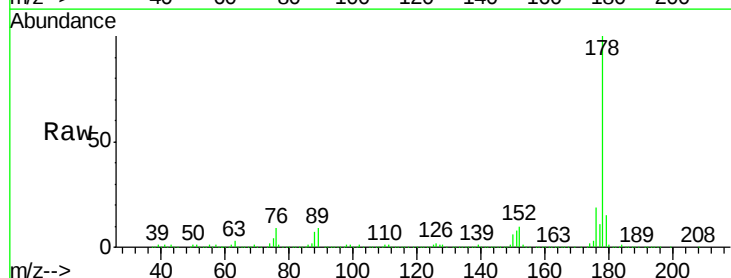
Manual Integrations
APPROVED

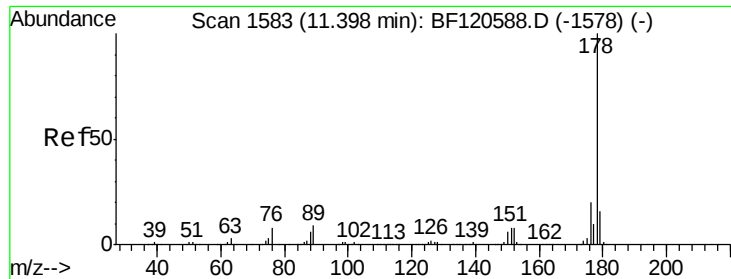
mohammad
6/19/2020 12:58:10 PM



#71
Phenanthrene
Concen: 24.331 ng
RT: 11.35 min Scan# 1574
Delta R.T. 0.00 min
Lab File: BF120652.D
Acq: 18 Jun 2020 20:01

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	606905		
176	19.4		15.9	23.9
179	15.4		12.8	19.2





#72

Anthracene

Concen: 5.696 ng

RT: 11.40 min Scan# 1583

Delta R.T. 0.00 min

Lab File: BF120652.D

Acq: 18 Jun 2020 20:01

Instrument :

BNA_F

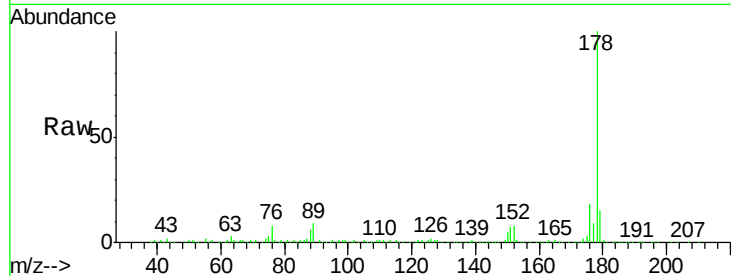
ClientSampled :

SL-WC-02C

Tot Ion:	178	Resp:	143208
Ion Ratio	Lower	Upper	
178	100		
176	18.4	15.6	23.4
179	15.0	12.9	19.3

Manual Integrations
APPROVED

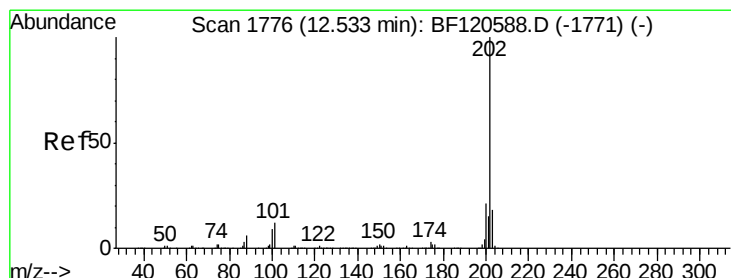
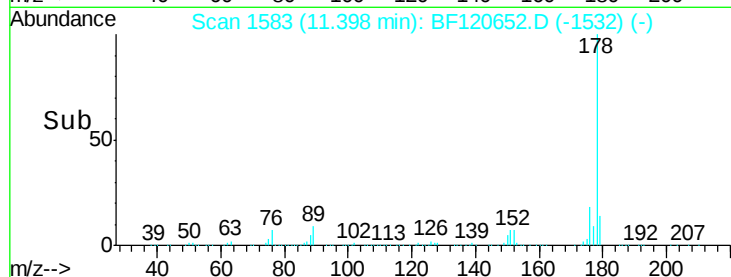
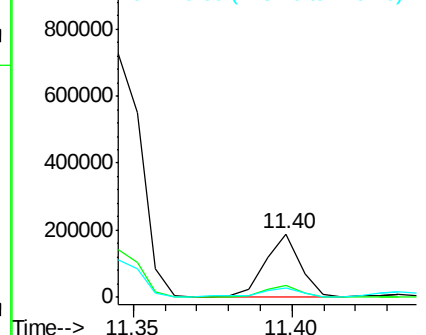
mohammad
6/19/2020 12:58:10 PM



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: 18.823 ng

RT: 12.53 min Scan# 1776

Delta R.T. 0.00 min

Lab File: BF120652.D

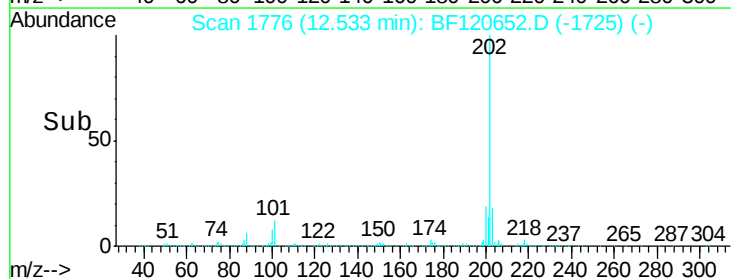
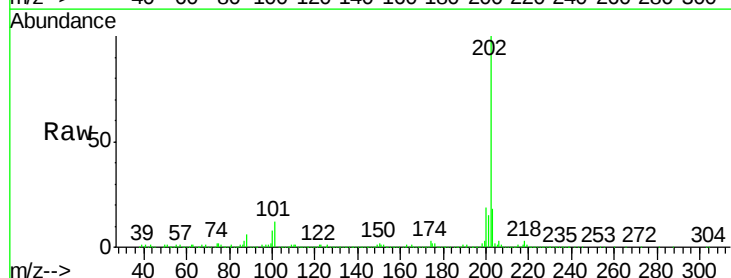
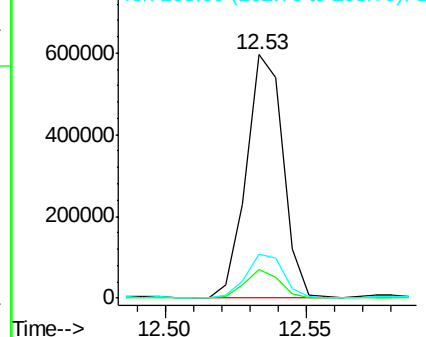
Acq: 18 Jun 2020 20:01

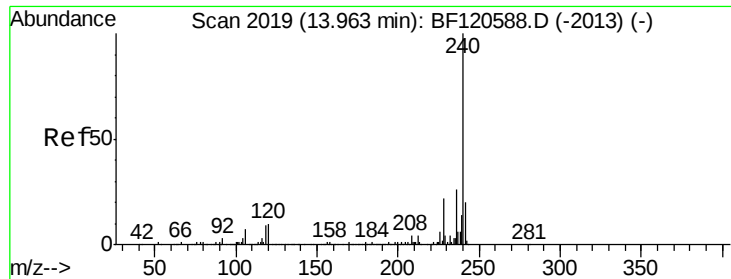
Tgt Ion:	202	Resp:	536790
Ion Ratio	Lower	Upper	
202	100		
101	11.7	0.0	32.0
203	18.3	0.0	38.3

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: 13.96 min Scan# 2019

Delta R.T. 0.00 min

Lab File: BF120652.D

Acq: 18 Jun 2020 20:01

Instrument :

BNA_F

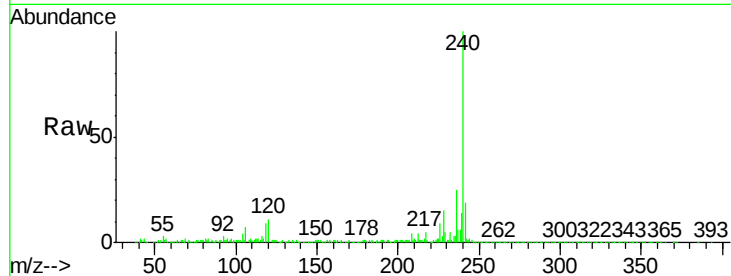
ClientSampleId :

SL-WC-02C

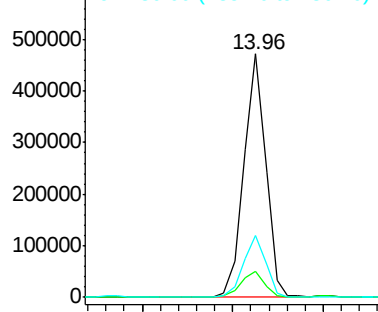
Tot Ion:	240	Resp:	392993
Ion Ratio	Lower	Upper	
240	100		
120	10.8	8.3	12.5
236	25.3	21.0	31.4

Manual Integrations
APPROVED

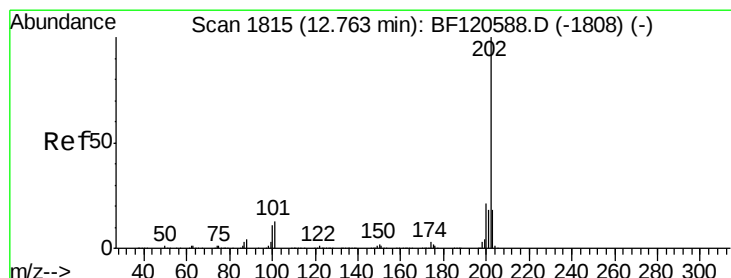
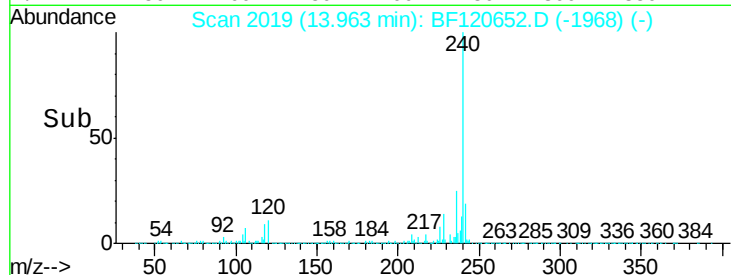
mohammad
6/19/2020 12:58:10 PM



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



Time-->



#78

Pyrene

Concen: 27.798 ng

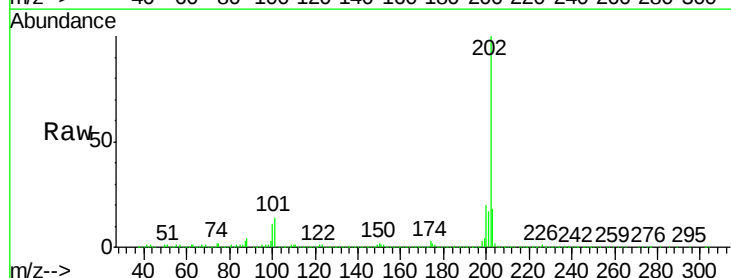
RT: 12.76 min Scan# 1815

Delta R.T. 0.00 min

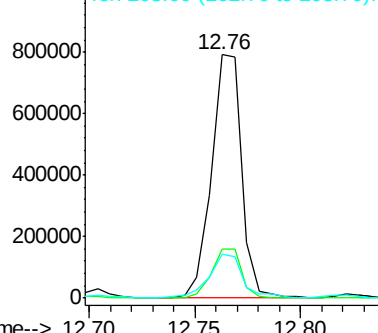
Lab File: BF120652.D

Acq: 18 Jun 2020 20:01

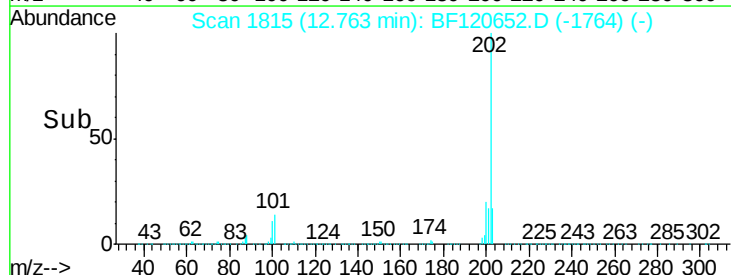
Tgt Ion:	202	Resp:	773893
Ion Ratio	Lower	Upper	
202	100		
200	20.4	16.8	25.2
203	18.0	14.3	21.5

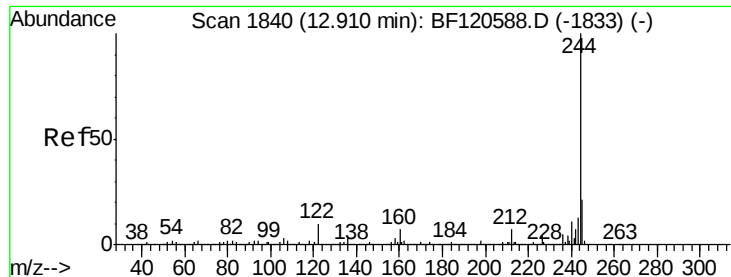


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



Time-->





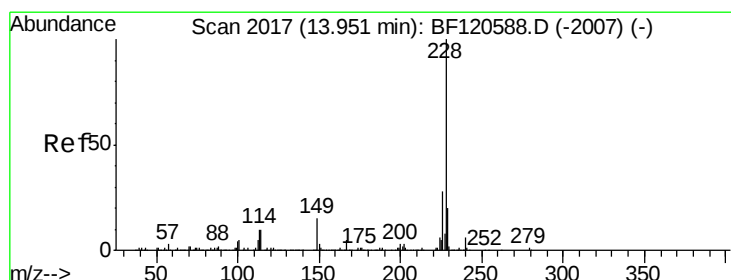
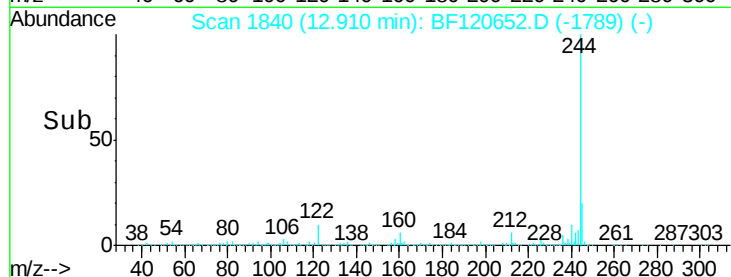
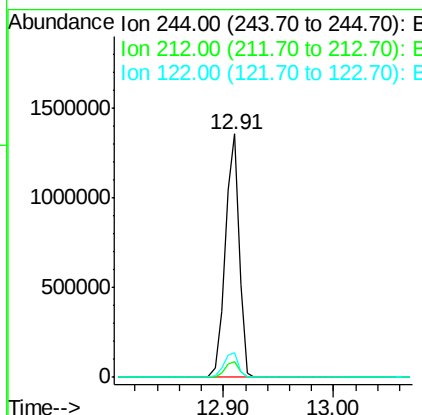
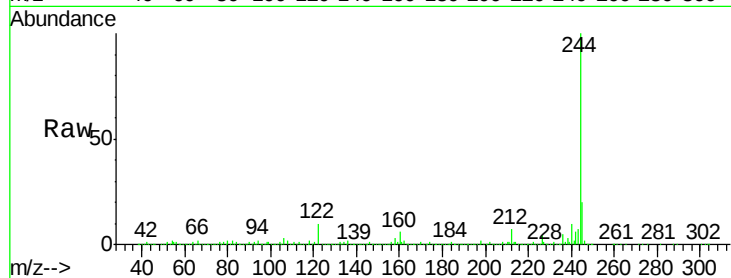
#79
 Terphenyl-d14
 Concen: 66.892 ng
 RT: 12.91 min Scan# 1840
 Delta R.T. 0.00 min
 Lab File: BF120652.D
 Acq: 18 Jun 2020 20:01

Instrument :
 BNA_F
 ClientSampleId :
 SL-WC-02C

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.7	8.5
122	10.2	8.3	12.5

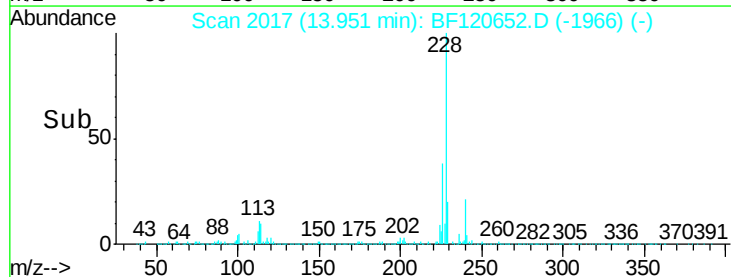
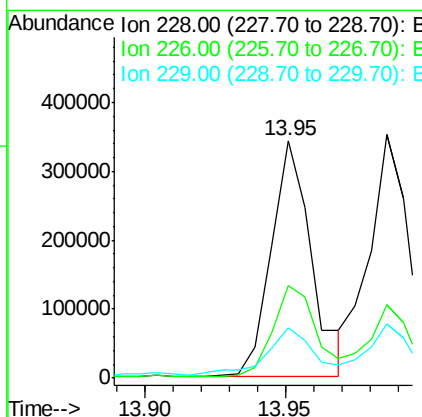
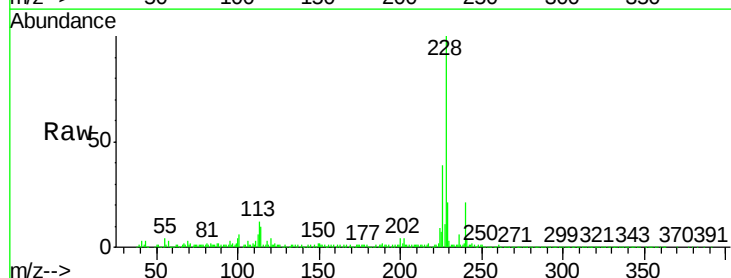
Manual Integrations
 APPROVED

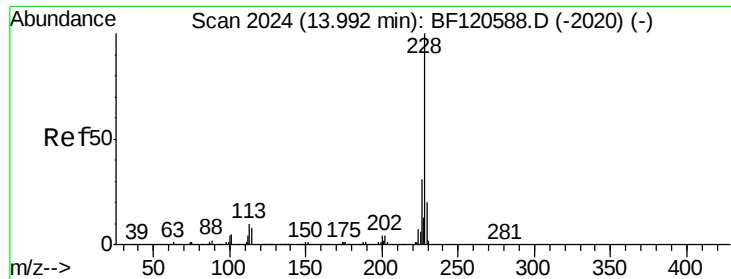
mohammad
 6/19/2020 12:58:10 PM



#81
 Benzo(a)anthracene
 Concen: 14.349 ng m
 RT: 13.95 min Scan# 1717
 Delta R.T. 0.00 min
 Lab File: BF120652.D
 Acq: 18 Jun 2020 20:01

Tgt Ion	Ratio	Lower	Upper
228	100		
226	38.9	22.5	33.7#
229	21.4	16.1	24.1





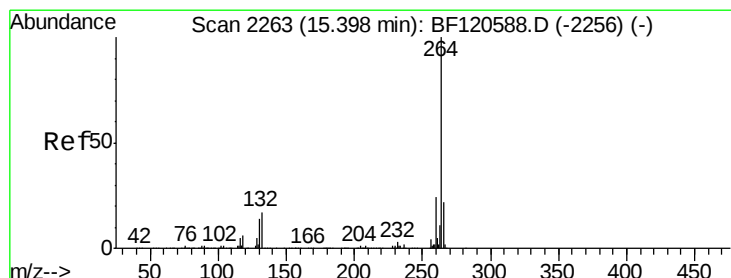
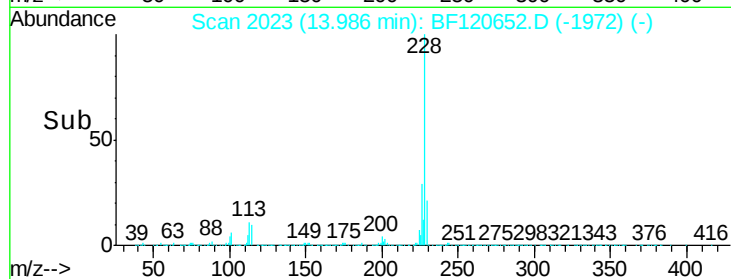
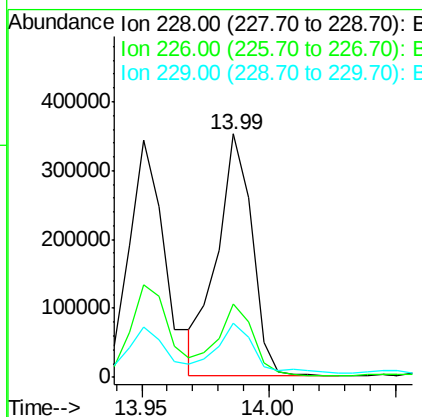
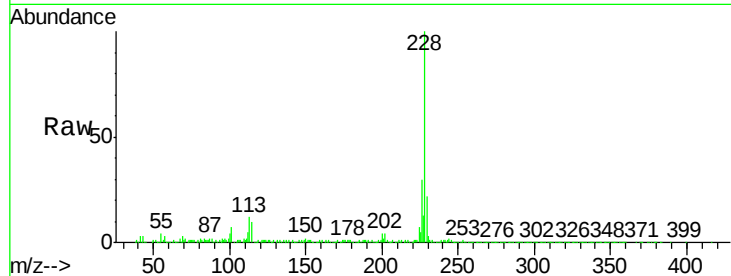
#83
Chrysene
Concen: 13.841 ng
RT: 13.99 min Scan# 2023
Delta R.T. 0.00 min
Lab File: BF120652.D
Acq: 18 Jun 2020 20:01

Instrument :
BNA_F
ClientSampleId :
SL-WC-02C

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.9	37.3
229	22.1	16.1	24.1

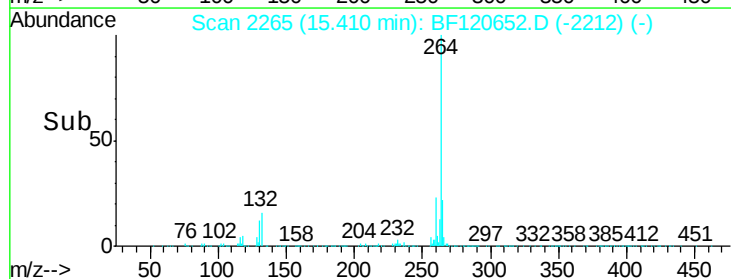
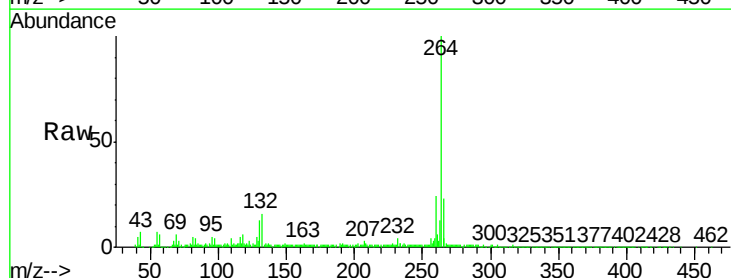
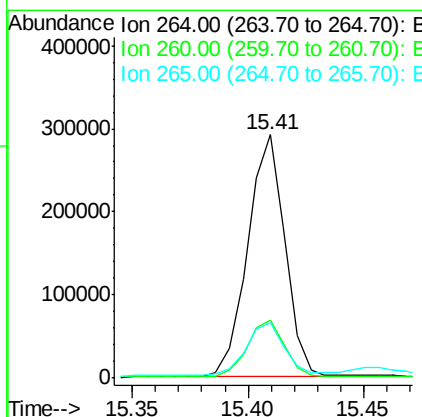
Manual Integrations
APPROVED

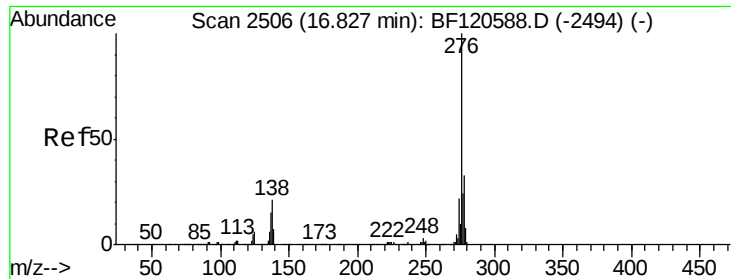
mohammad
6/19/2020 12:58:10 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.41 min Scan# 2265
Delta R.T. 0.01 min
Lab File: BF120652.D
Acq: 18 Jun 2020 20:01

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.3	28.9
265	22.9	17.8	26.8





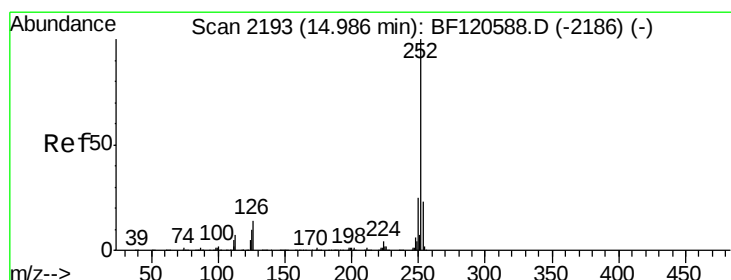
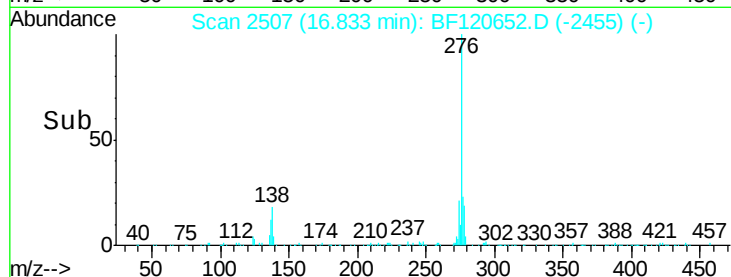
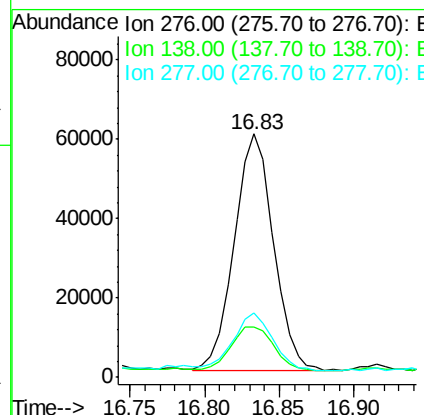
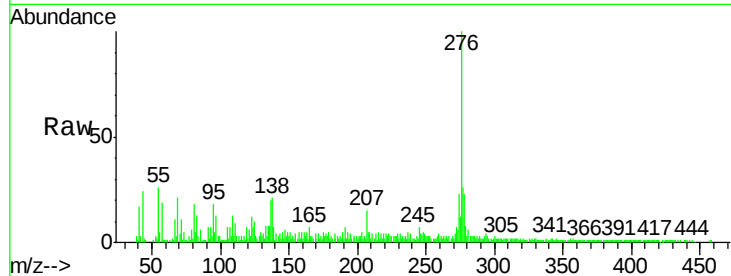
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 5.443 ng
 RT: 16.83 min Scan# 2507
 Delta R.T. 0.01 min
 Lab File: BF120652.D
 Acq: 18 Jun 2020 20:01

Instrument :
 BNA_F
 ClientSampleId :
 SL-WC-02C

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.1	18.9	28.3
277	25.4	20.2	30.2

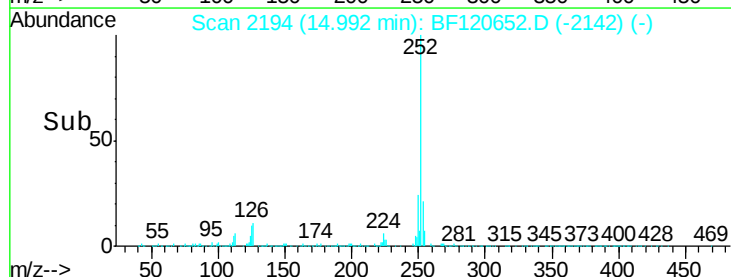
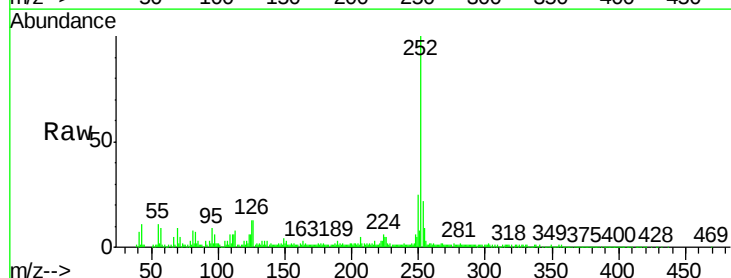
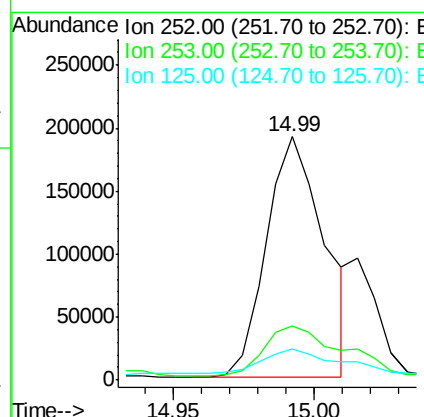
Manual Integrations
 APPROVED

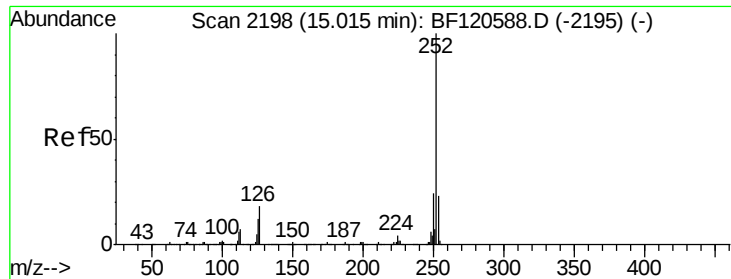
mohammad
 6/19/2020 12:58:10 PM



#88
 Benzo(b)fluoranthene
 Concen: 14.108 ng m
 RT: 14.99 min Scan# 2194
 Delta R.T. 0.01 min
 Lab File: BF120652.D
 Acq: 18 Jun 2020 20:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.1	27.1
125	12.7	8.3	12.5#





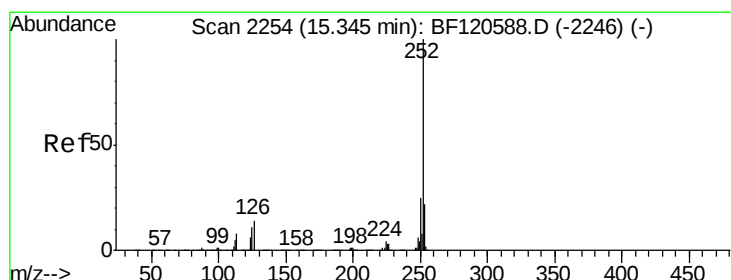
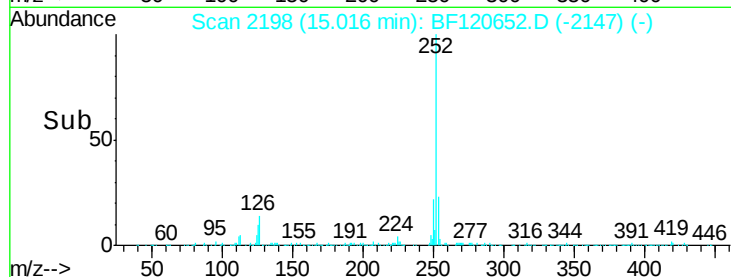
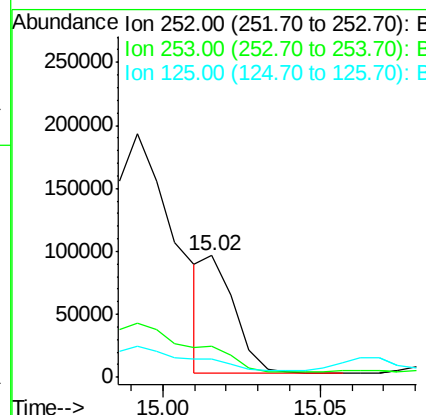
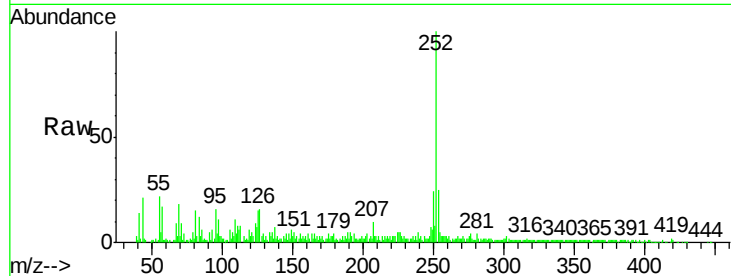
#89
Benzo(k)fluoranthene
Concen: 3.675 ng m
RT: 15.02 min Scan# 2198
Delta R.T. 0.00 min
Lab File: BF120652.D
Acq: 18 Jun 2020 20:01

Instrument :
BNA_F
ClientSampleId :
SL-WC-02C

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.4	18.0	27.0
125	15.1	8.3	12.5

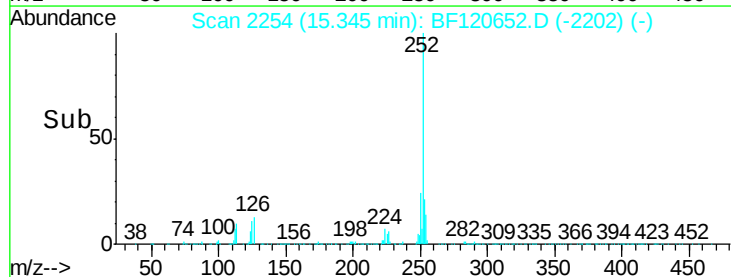
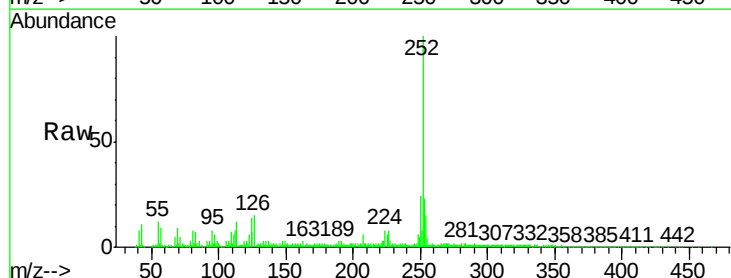
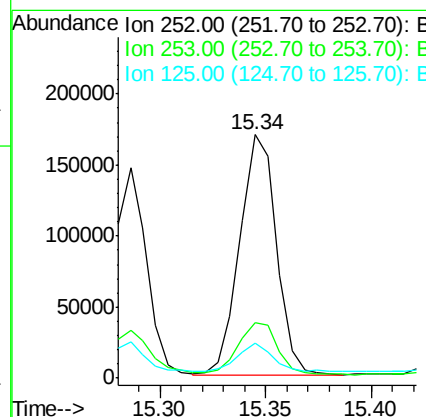
Manual Integrations
APPROVED

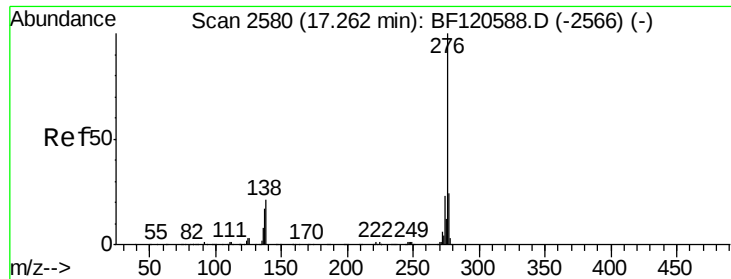
mohammad
6/19/2020 12:58:10 PM



#90
Benzo(a)pyrene
Concen: 11.582 ng
RT: 15.34 min Scan# 2254
Delta R.T. 0.01 min
Lab File: BF120652.D
Acq: 18 Jun 2020 20:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.8	26.8
125	14.2	8.6	12.8





#92
 Benzo(a,h,i)perylene
 Concen: 8.054 ng
 RT: 17.27 min Scan# 2581
 Delta R.T. 0.01 min
 Lab File: BF120652.D
 Acq: 18 Jun 2020 20:01

Instrument :
 BNA_F
 ClientSampleId :
 SL-WC-02C

Tot Ion:	276	Resp:	129716
Ion Ratio		Lower	Upper
276	100		
277	24.1	19.6	29.4
138	23.2	16.5	24.7

Manual Integrations
 APPROVED

mohammad
 6/19/2020 12:58:10 PM

