

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
 Data File : BF120644.D
 Acq On : 18 Jun 2020 16:14
 Operator : JU/CG
 Sample : L3046-12
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleID :
 ISS-C-C

Manual Integrations
 APPROVED

mohammad
 6/19/2020 12:57:52 PM

Quant Time: Jun 19 01:54:58 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	119175	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	483890	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	217140	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	437492	20.00	ng	0.00
76) Chrysene-d12	13.96	240	364165	20.00	ng	0.00
86) Perylene-d12	15.40	264	421804	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	705318	101.47	ng	0.00
7) Phenol-d6	6.43	99	816947	94.36	ng	0.00
23) Nitrobenzene-d5	7.36	82	516792	59.70	ng	0.00
42) 2,4,6-Tribromophenol	10.62	330	273576	108.37	ng	0.00
45) 2-Fluorobiphenyl	9.16	172	1049374	73.94	ng	0.00
79) Terphenyl-d14	12.90	244	1233525	74.82	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.10	128	51897	2.184	ng	99
50) Dimethylphthalate	9.55	163	89012	5.692	ng	100
52) Acenaphthene	9.86	154	71967	5.897	ng	98
55) Dibenzofuran	10.03	168	41361	2.210	ng	# 98
58) Fluorene	10.38	166	74644	5.175	ng	99
71) Phenanthrene	11.34	178	1265905	58.209	ng	100
72) Anthracene	11.39	178	349509	15.944	ng	98
73) Carbazole	11.54	167	79339	3.656	ng	99
75) Fluoranthene	12.53	202	1467823	59.032	ng	99
78) Pyrene	12.76	202	1604411	62.191	ng	99
81) Benzo(a)anthracene	13.94	228	683393	31.236	ng	98
83) Chrysene	13.99	228	607986	27.091	ng	99
87) Indeno(1,2,3-cd)pyrene	16.82	276	327422m	12.761	ng	
88) Benzo(b)fluoranthene	14.99	252	613156m	24.403	ng	
89) Benzo(k)fluoranthene	15.00	252	218920m	9.847	ng	
90) Benzo(a)pyrene	15.34	252	522787	23.249	ng	99
91) Dibenzo(a,h)anthracene	16.82	278	73163m	3.556	ng	
92) Benzo(g,h,i)perylene	17.24	276	374930	18.079	ng	98

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

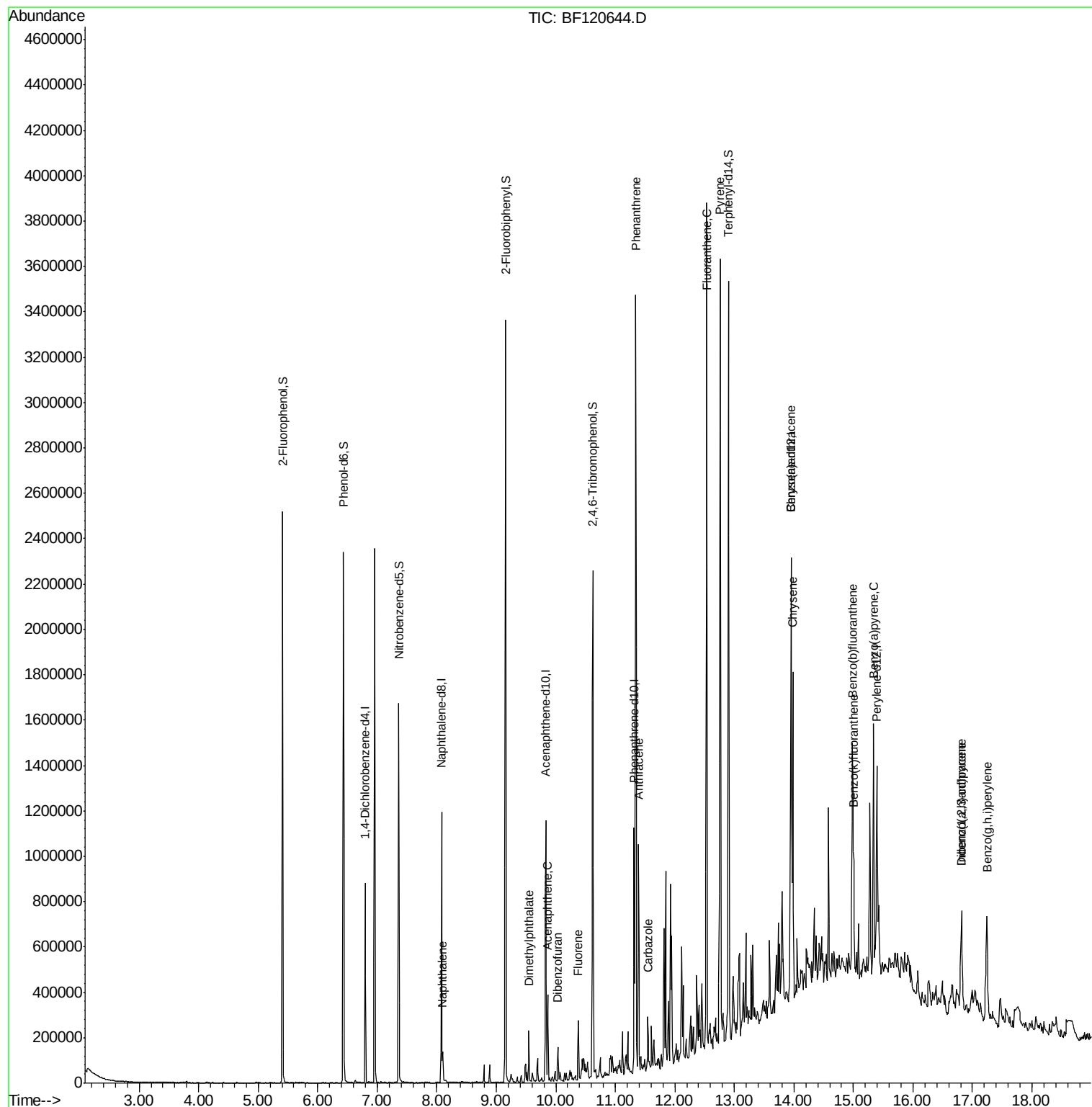
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061820\
Data File : BF120644.D
Acq On : 18 Jun 2020 16:14
Operator : JU/CG
Sample : L3046-12
Misc :
ALS Vial : 4 Sample Multiplier: 1

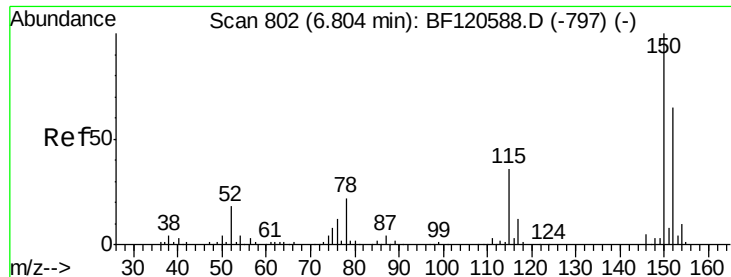
Instrument :
BNA_F
ClientSampled :
ISS-C-C

Manual Integrations
APPROVED

mohammad
6/19/2020 12:57:52 PM

Quant Time: Jun 19 01:54:58 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

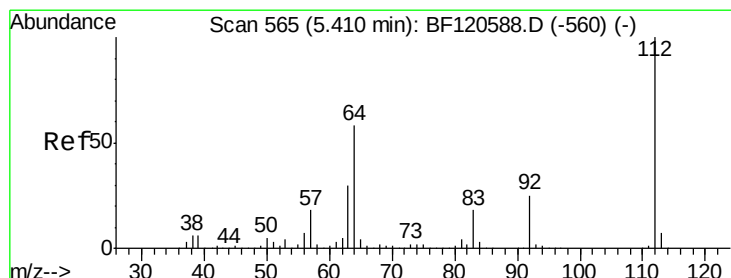
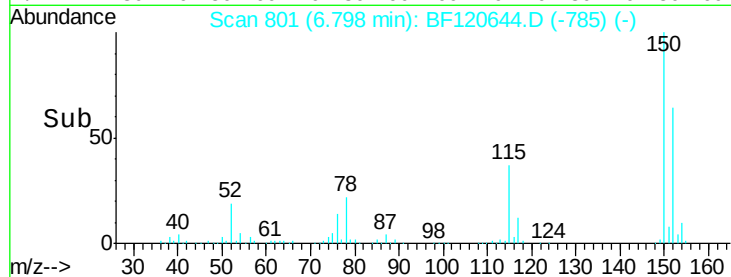
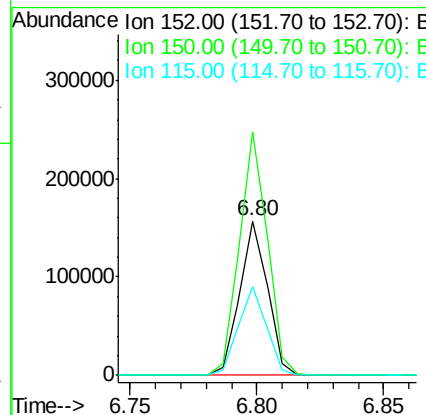
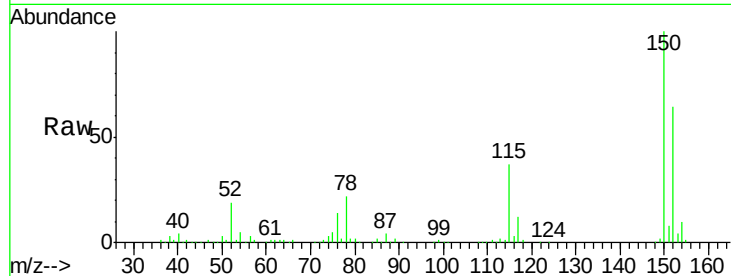
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 801
Delta R.T. -0.01 min
Lab File: BF120644.D
Acq: 18 Jun 2020 16:14

Instrument :
BNA_F
ClientSampleId :
ISS-C-C

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.4	123.2	184.8
115	57.6	43.9	65.9

Manual Integrations
APPROVED

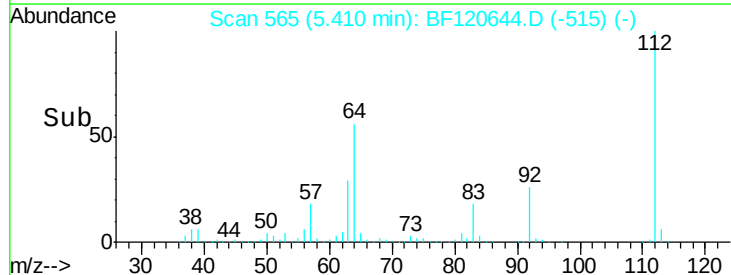
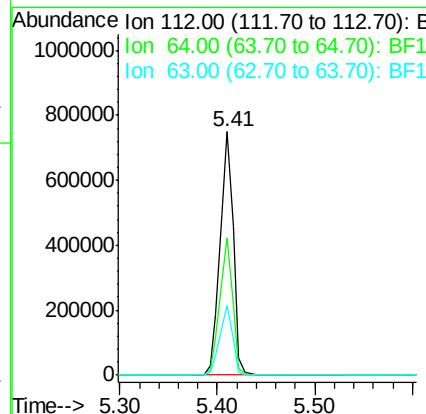
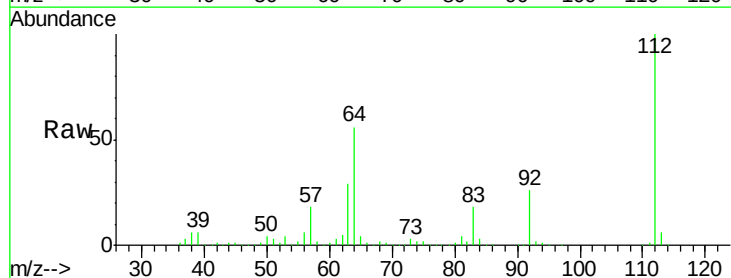
mohammad
6/19/2020 12:57:52 PM

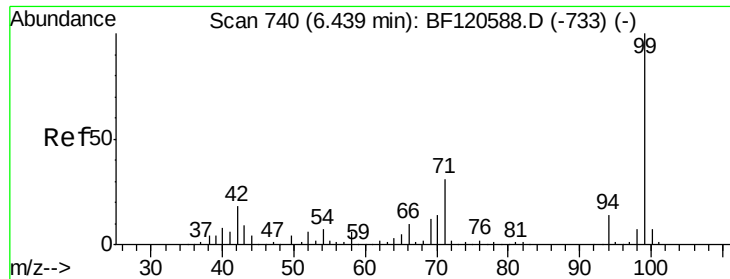


#5

2-Fluorophenol
Concen: 101.467 ng
RT: 5.41 min Scan# 565
Delta R.T. -0.01 min
Lab File: BF120644.D
Acq: 18 Jun 2020 16:14

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.2	46.1	69.1
63	28.8	23.7	35.5





#7

Phenol-d6

Concen: 94.361 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF120644.D

Acq: 18 Jun 2020 16:14

Instrument :

BNA_F

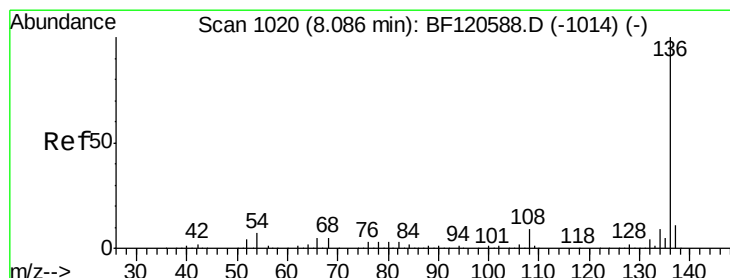
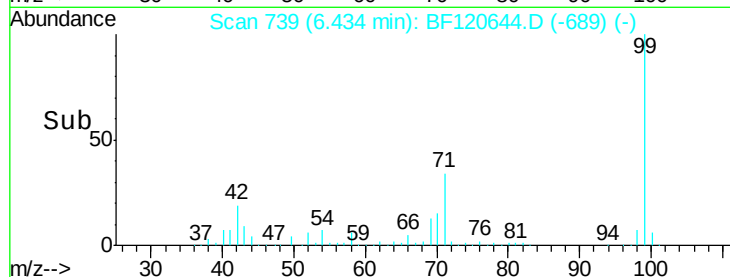
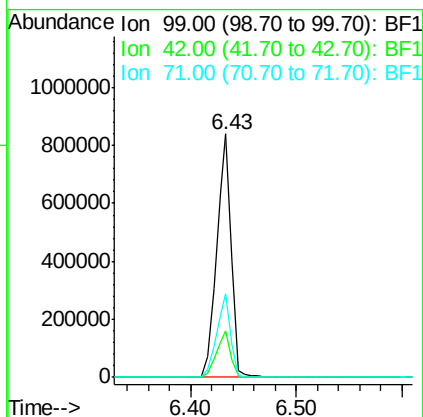
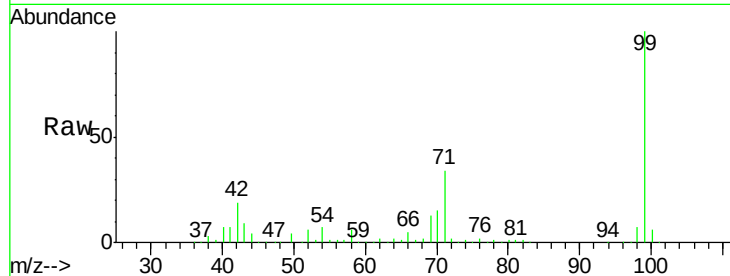
ClientSampled :

ISS-C-C

Tot Ion:	99	Resp:	816947
Ion	Ratio	Lower	Upper
99	100		
42	18.9	14.0	21.0
71	34.2	24.9	37.3

Manual Integrations
APPROVED

mohammad
6/19/2020 12:57:52 PM



#21

Naphthalene-d8

Concen: 20.000 ng

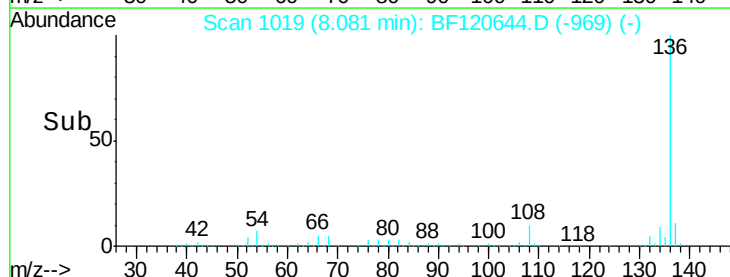
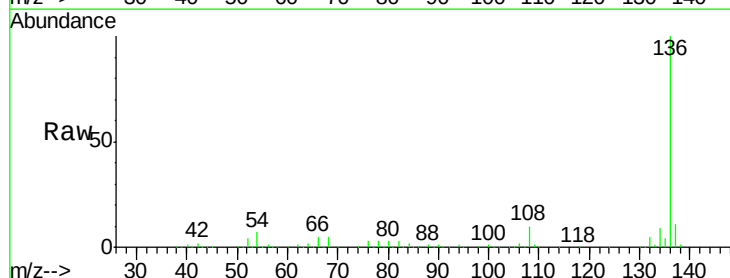
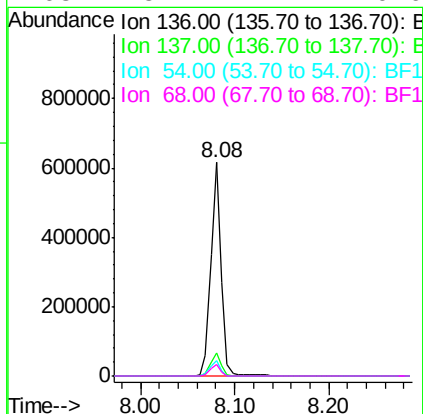
RT: 8.08 min Scan# 1019

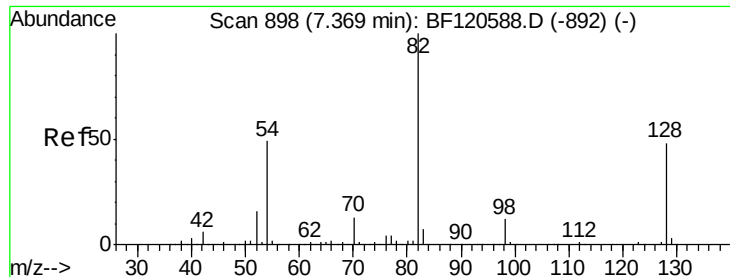
Delta R.T. -0.01 min

Lab File: BF120644.D

Acq: 18 Jun 2020 16:14

Tgt Ion:	136	Resp:	483890
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	7.0	5.8	8.6
68	5.2	4.4	6.6





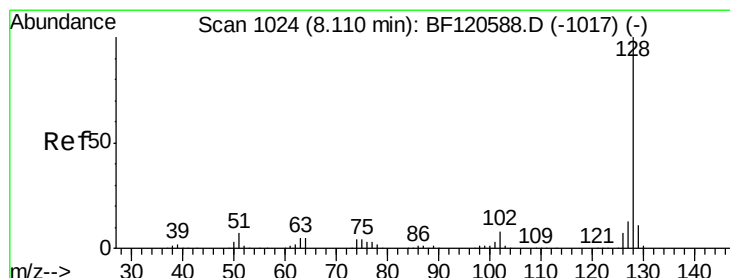
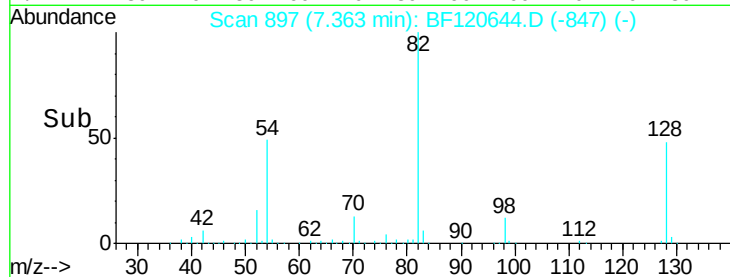
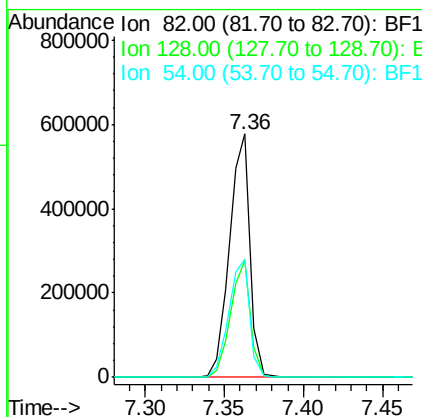
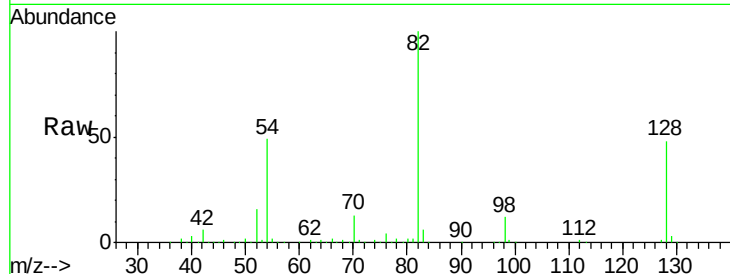
#23
Nitrobenzene-d5
Concen: 59.697 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.01 min
Lab File: BF120644.D
Acq: 18 Jun 2020 16:14

Instrument :
BNA_F
ClientSampleId :
ISS-C-C

Tot Ion	Ratio	Resp	Lower	Upper
82	100	516792		
128	48.0		38.0	57.0
54	48.6		38.8	58.2

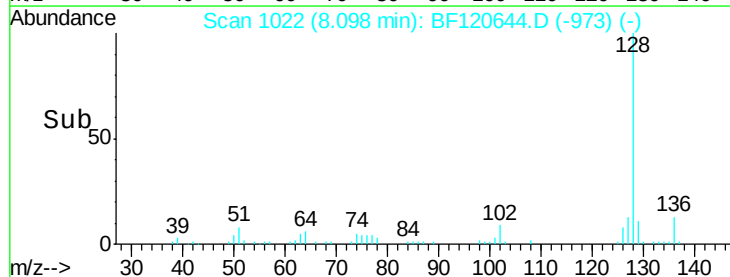
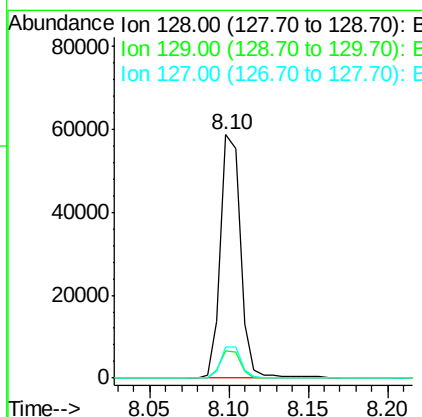
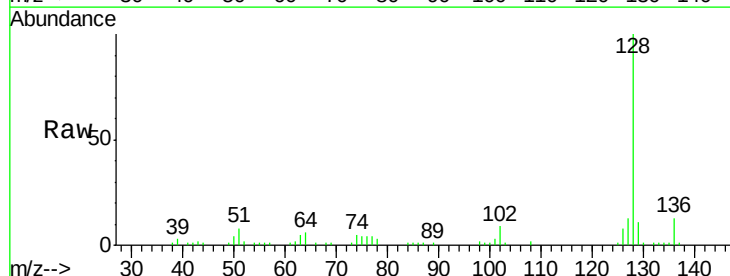
Manual Integrations
APPROVED

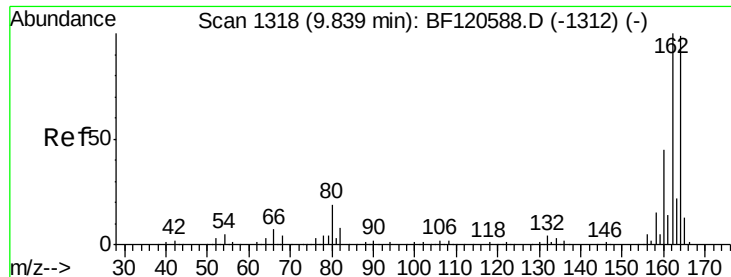
mohammad
6/19/2020 12:57:52 PM



#31
Naphthalene
Concen: 2.184 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.01 min
Lab File: BF120644.D
Acq: 18 Jun 2020 16:14

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	51897		
129	11.3		8.8	13.2
127	13.0		10.6	15.8





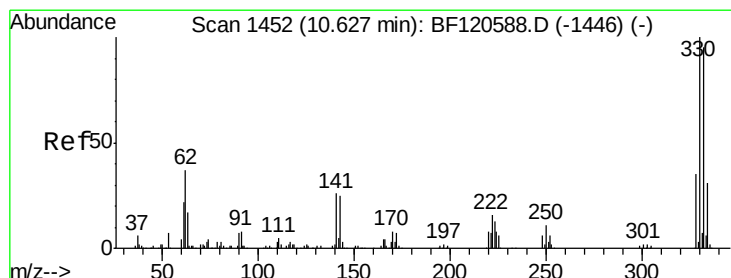
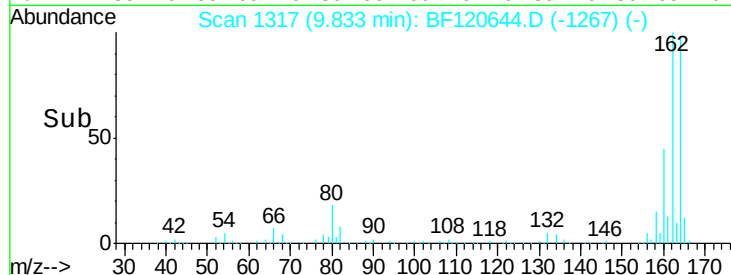
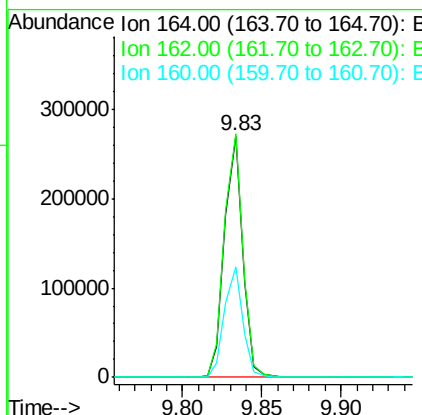
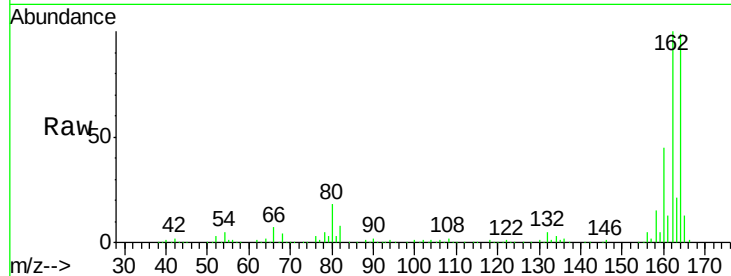
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.83 min Scan# 1317
 Delta R.T. -0.01 min
 Lab File: BF120644.D
 Acq: 18 Jun 2020 16:14

Instrument :
 BNA_F
 ClientSampleId :
 ISS-C-C

Tot Ion	Ratio	Resp	Lower	Upper
164	100	217140		
162	100.9	80.6	120.8	
160	45.6	36.2	54.2	

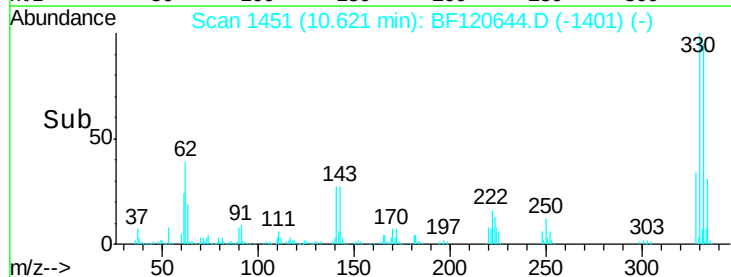
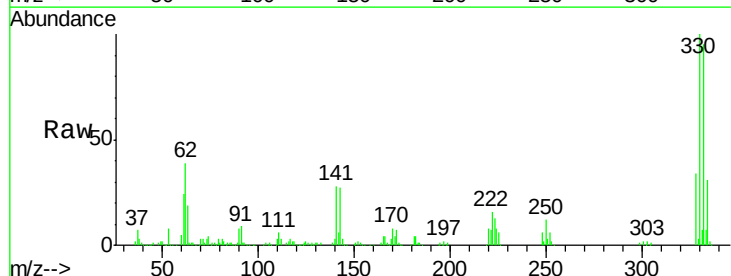
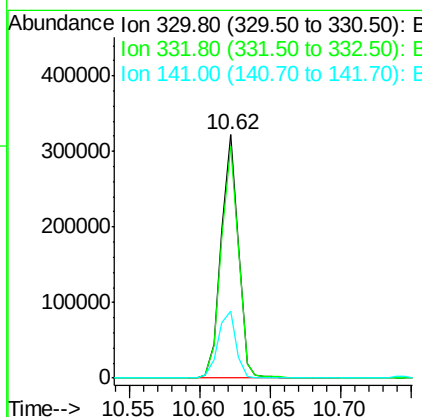
Manual Integrations
 APPROVED

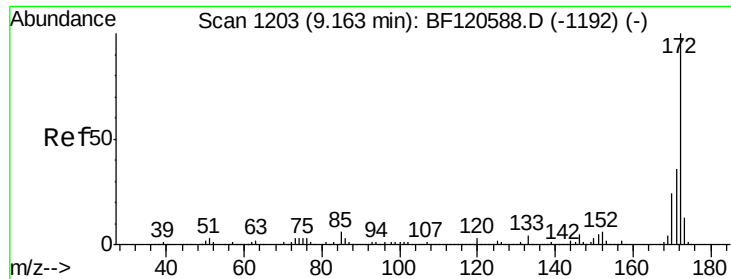
mohammad
 6/19/2020 12:57:52 PM



#42
 2,4,6-Tribromophenol
 Concen: 108.366 ng
 RT: 10.62 min Scan# 1451
 Delta R.T. -0.01 min
 Lab File: BF120644.D
 Acq: 18 Jun 2020 16:14

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	273576		
332	96.2	76.8	115.2	
141	29.7	23.2	34.8	





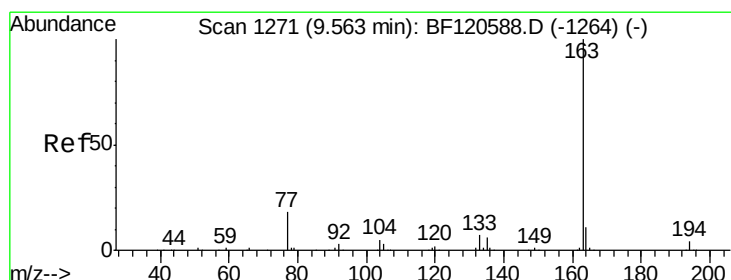
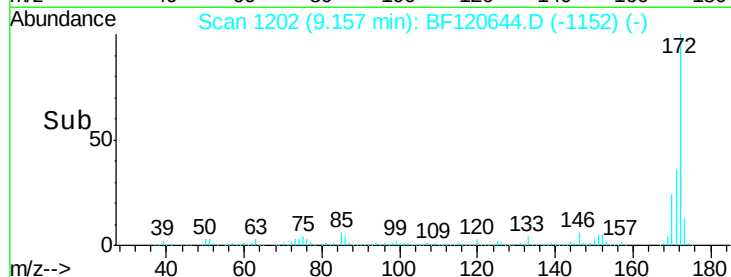
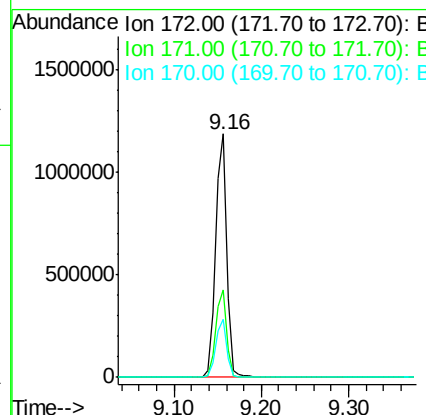
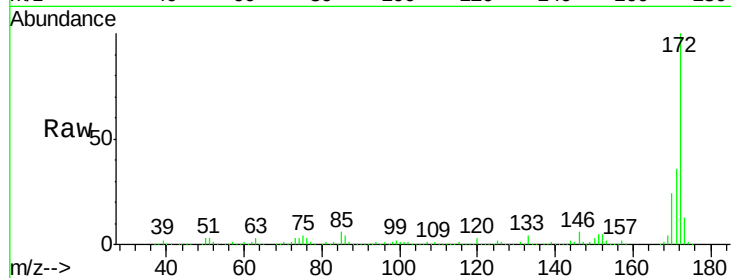
#45
2-Fluorobiphenyl
Concen: 73.940 ng
RT: 9.16 min Scan# 1202
Delta R.T. -0.01 min
Lab File: BF120644.D
Acq: 18 Jun 2020 16:14

Instrument :
BNA_F
ClientSampleId :
ISS-C-C

Tot Ion	Ion	Ratio	Lower	Upper
172	100			
171	35.8	29.0	43.4	
170	24.1	19.4	29.2	

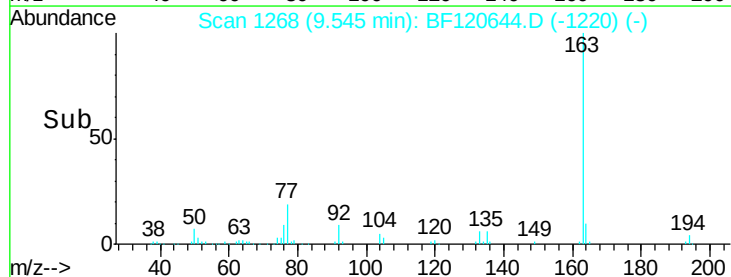
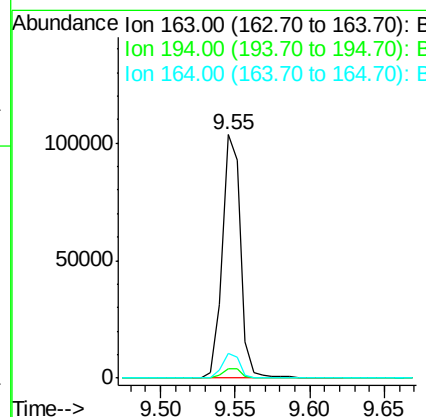
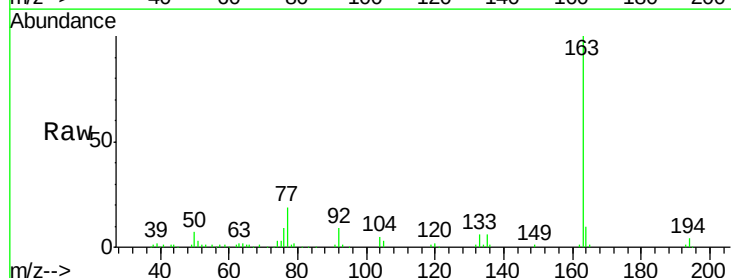
Manual Integrations
APPROVED

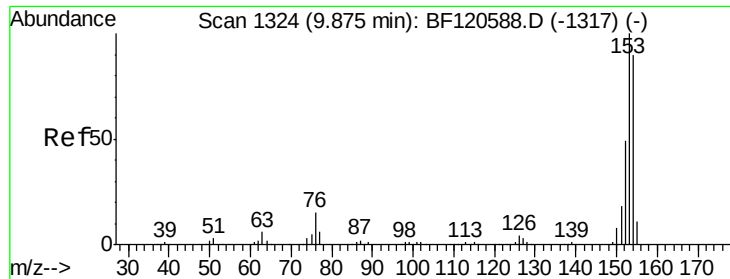
mohammad
6/19/2020 12:57:52 PM



#50
Dimethylphthalate
Concen: 5.692 ng
RT: 9.55 min Scan# 1268
Delta R.T. -0.02 min
Lab File: BF120644.D
Acq: 18 Jun 2020 16:14

Tgt Ion	Ion	Ratio	Lower	Upper
163	100			
194	3.9	3.1	4.7	
164	10.4	8.5	12.7	





#52

Acenaphthene

Concen: 5.897 ng

RT: 9.86 min Scan# 1322

Delta R.T. -0.01 min

Lab File: BF120644.D

Acq: 18 Jun 2020 16:14

Instrument :

BNA_F

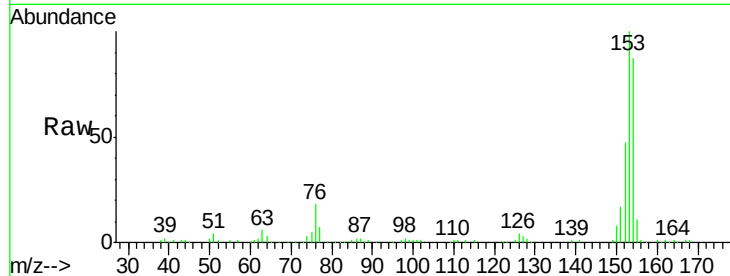
ClientSampleId :

ISS-C-C

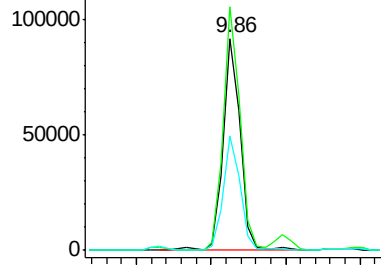
Tot Ion:	154	Resp:	71967
Ion	Ratio	Lower	Upper
154	100		
153	114.8	89.1	133.7
152	54.0	43.7	65.5

Manual Integrations
APPROVED

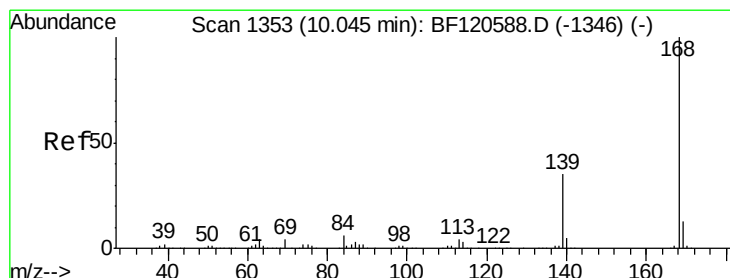
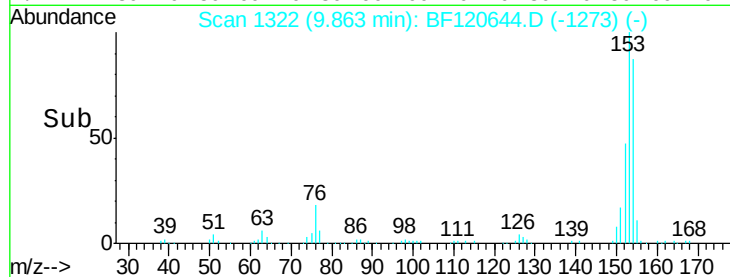
mohammad
6/19/2020 12:57:52 PM



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



Time-->



#55

Dibenzofuran

Concen: 2.210 ng

RT: 10.03 min Scan# 1351

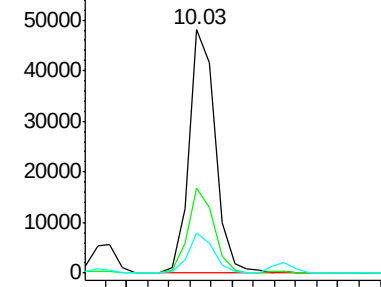
Delta R.T. -0.01 min

Lab File: BF120644.D

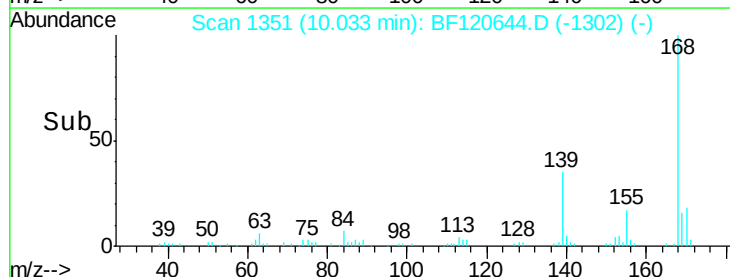
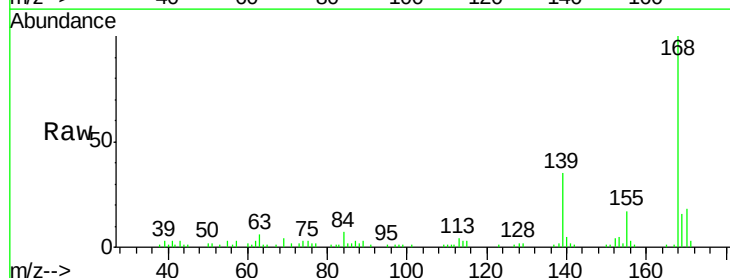
Acq: 18 Jun 2020 16:14

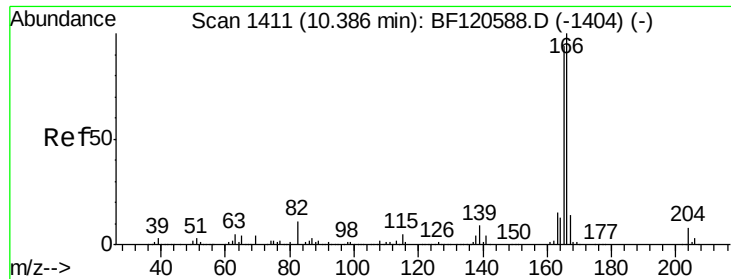
Tgt Ion:	168	Resp:	41361
Ion	Ratio	Lower	Upper
168	100		
139	34.9	28.1	42.1
169	16.4	10.6	16.0#

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



Time-->





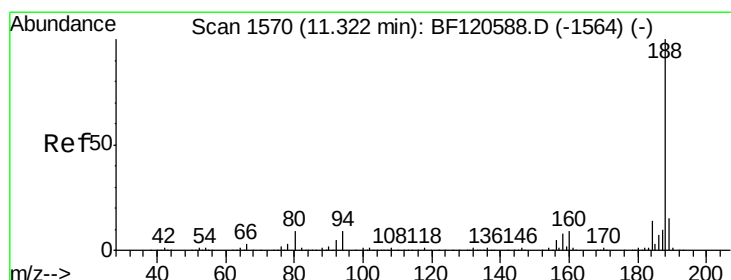
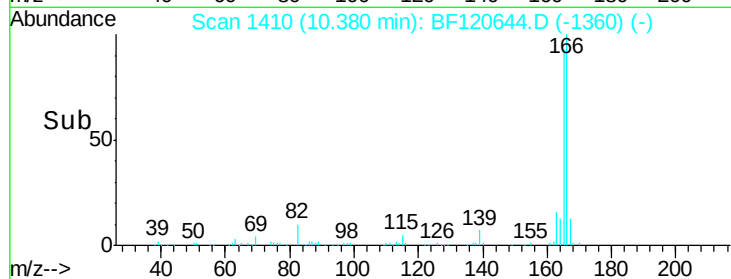
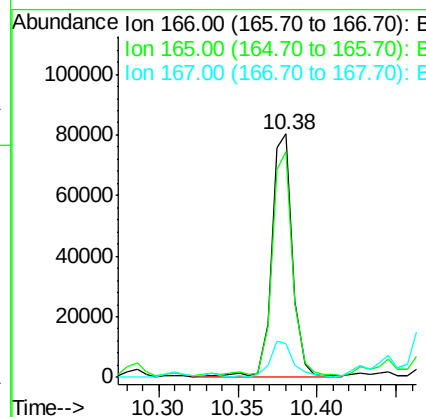
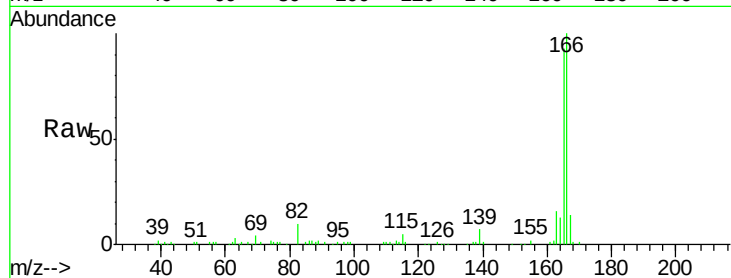
#58
 Fluorene
 Concen: 5.175 ng
 RT: 10.38 min Scan# 1410
 Delta R.T. -0.01 min
 Lab File: BF120644.D
 Acq: 18 Jun 2020 16:14

Instrument :
 BNA_F
 ClientSampled :
 ISS-C-C

Tot Ion	Ion	Ratio	Lower	Upper
166	100			
165	92.8	75.0	112.6	
167	13.7	11.0	16.4	

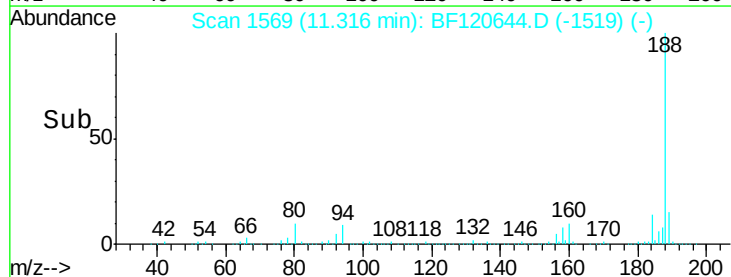
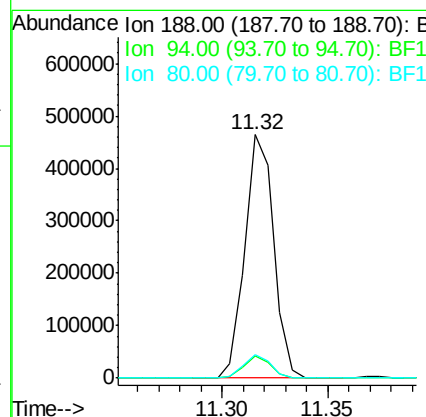
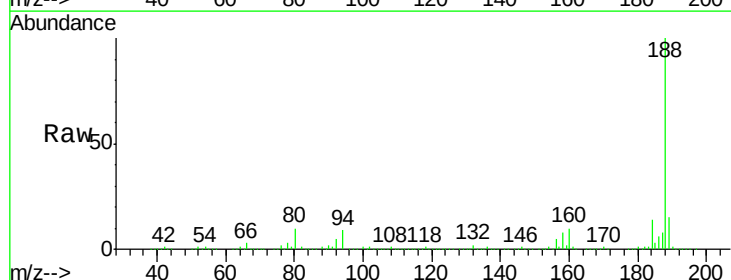
Manual Integrations
 APPROVED

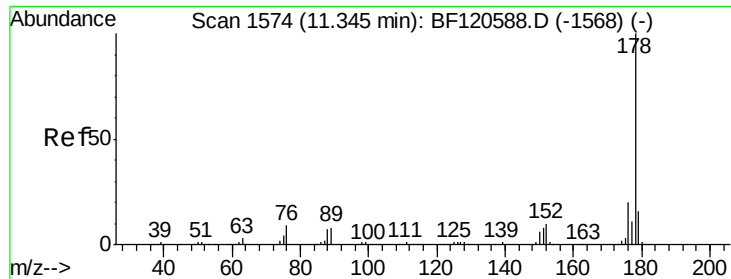
mohammad
 6/19/2020 12:57:52 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.32 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: BF120644.D
 Acq: 18 Jun 2020 16:14

Tgt Ion	Ion	Ratio	Lower	Upper
188	100			
94	9.0	7.2	10.8	
80	9.5	7.4	11.2	





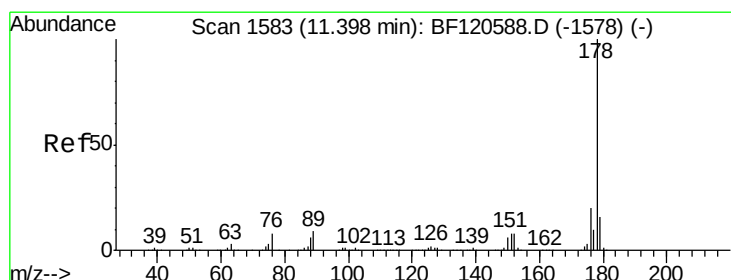
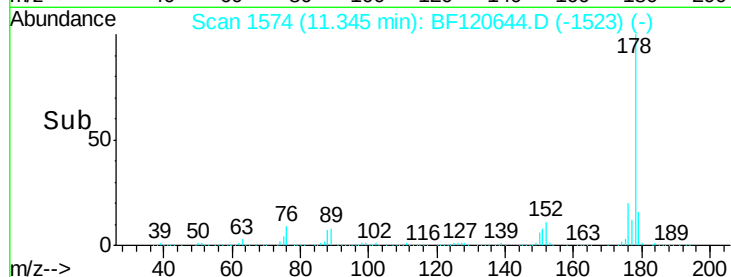
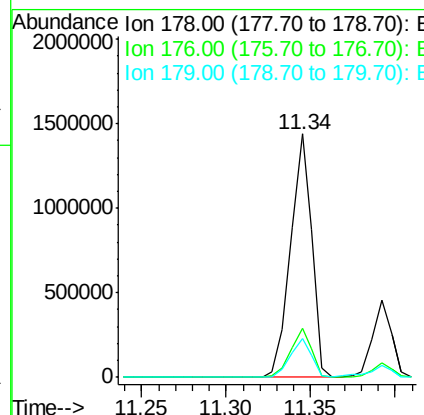
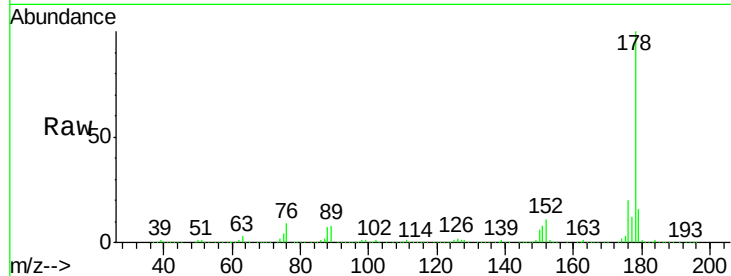
#71
Phenanthrene
Concen: 58.209 ng
RT: 11.34 min Scan# 1574
Delta R.T. 0.00 min
Lab File: BF120644.D
Acq: 18 Jun 2020 16:14

Instrument :
BNA_F
ClientSampleId :
ISS-C-C

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.9	23.9
179	15.9	12.8	19.2

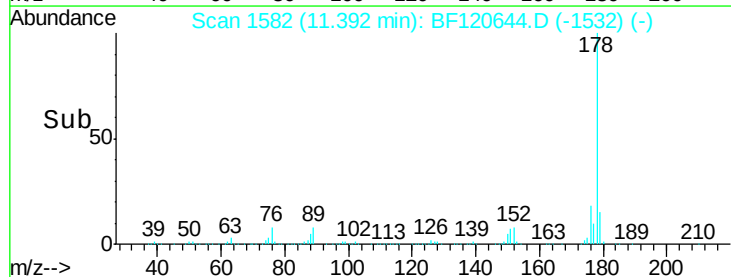
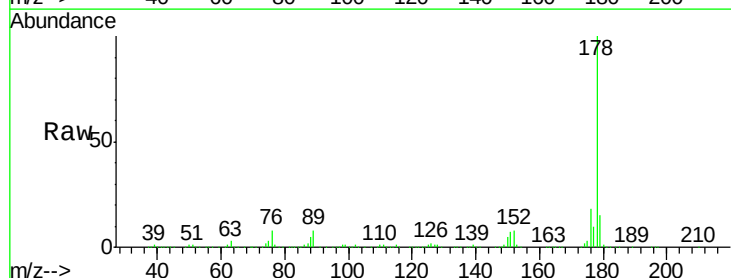
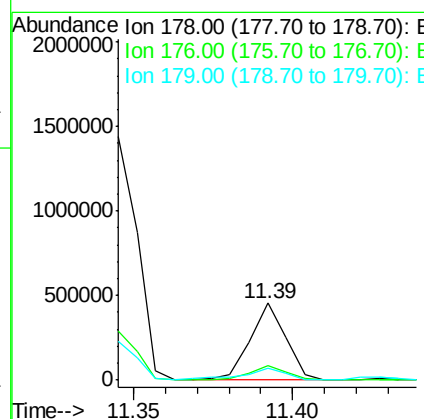
Manual Integrations
APPROVED

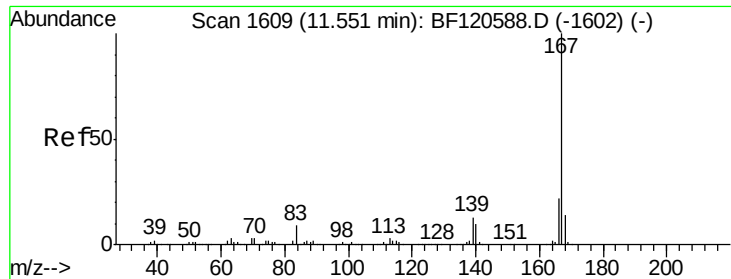
mohammad
6/19/2020 12:57:52 PM



#72
Anthracene
Concen: 15.944 ng
RT: 11.39 min Scan# 1582
Delta R.T. -0.01 min
Lab File: BF120644.D
Acq: 18 Jun 2020 16:14

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.6	23.4
179	15.3	12.9	19.3





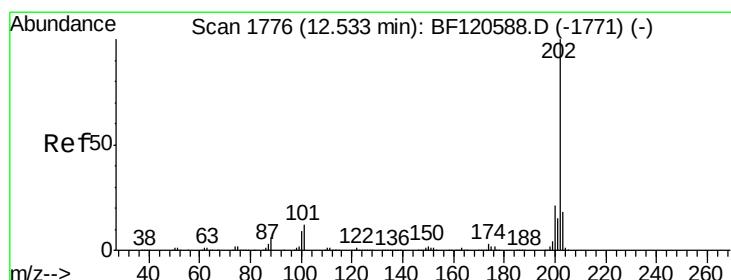
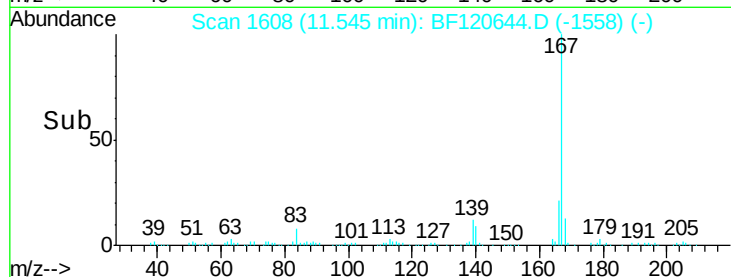
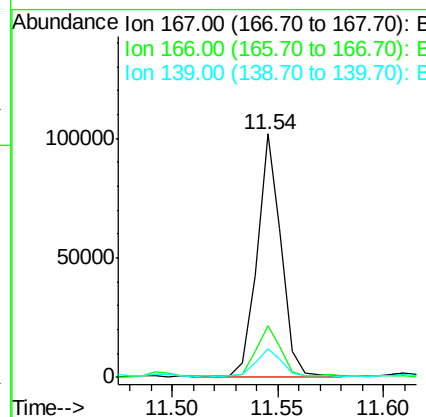
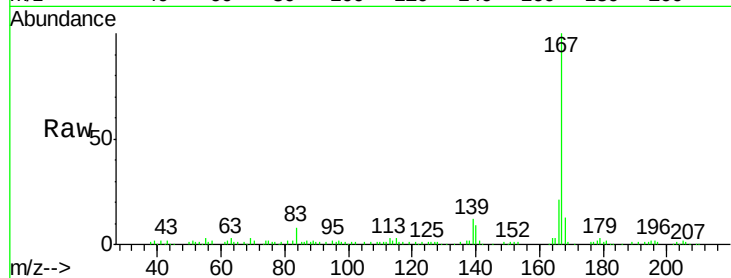
#73
 Carbazole
 Concen: 3.656 ng
 RT: 11.54 min Scan# 1608
 Delta R.T. -0.01 min
 Lab File: BF120644.D
 Acq: 18 Jun 2020 16:14

Instrument :
 BNA_F
 ClientSampleId :
 ISS-C-C

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.0	17.2	25.8
139	11.8	10.1	15.1

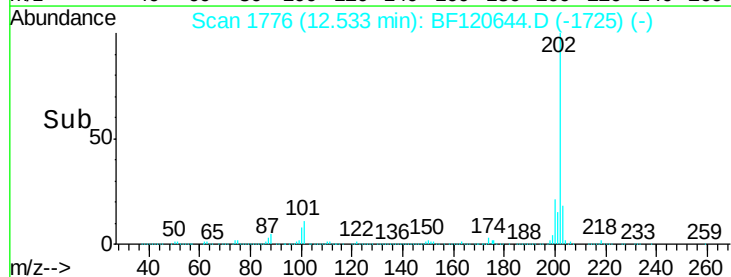
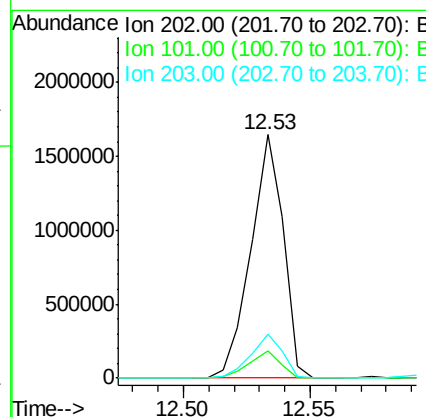
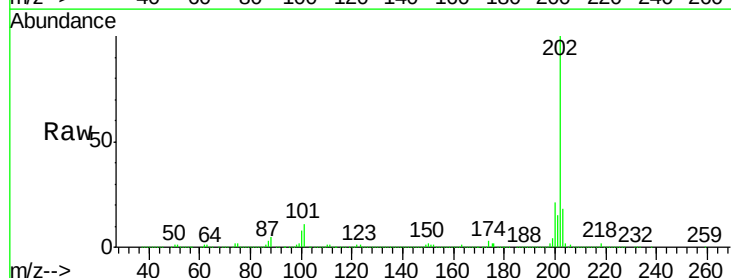
Manual Integrations
 APPROVED

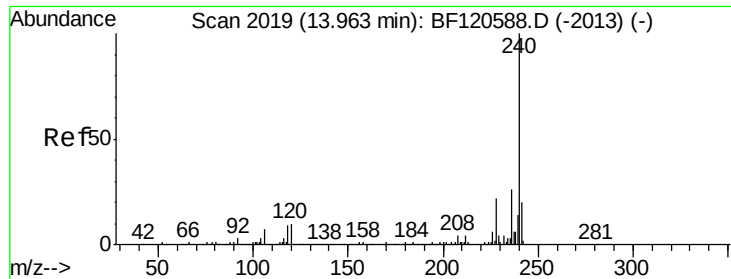
mohammad
 6/19/2020 12:57:52 PM



#75
 Fluoranthene
 Concen: 59.032 ng
 RT: 12.53 min Scan# 1776
 Delta R.T. 0.00 min
 Lab File: BF120644.D
 Acq: 18 Jun 2020 16:14

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	32.0
203	18.1	0.0	38.3





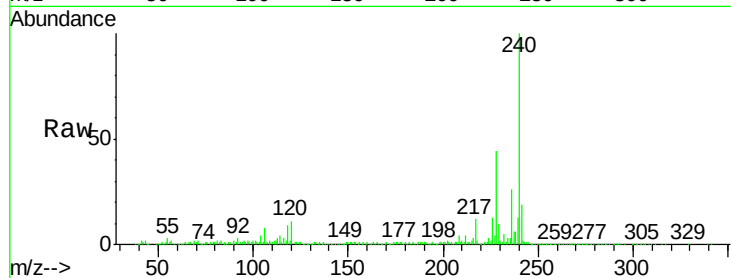
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.96 min Scan# 2018
Delta R.T. -0.01 min
Lab File: BF120644.D
Acq: 18 Jun 2020 16:14

Instrument :
BNA_F
ClientSampleID :
ISS-C-C

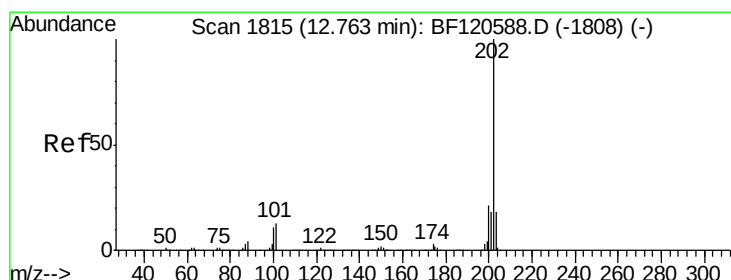
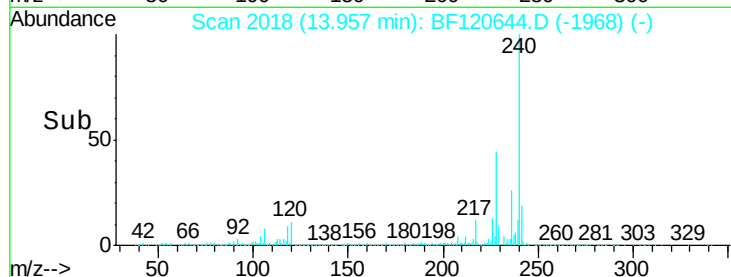
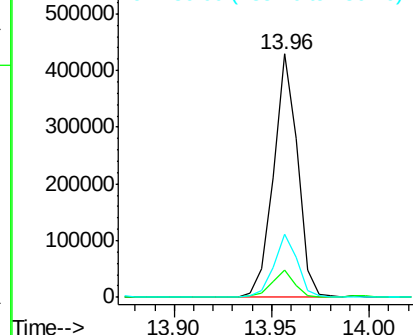
Tot Ion	Ratio	Lower	Upper
240	100		
120	11.1	8.3	12.5
236	25.8	21.0	31.4

Manual Integrations
APPROVED

mohammad
6/19/2020 12:57:52 PM

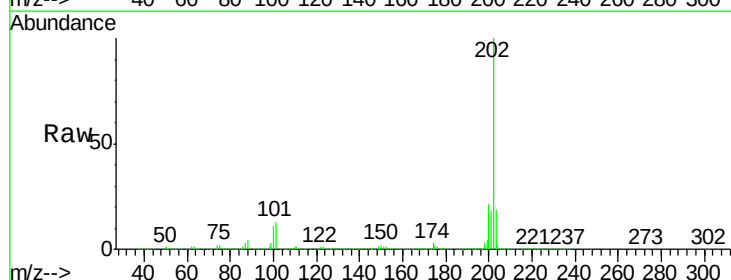


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

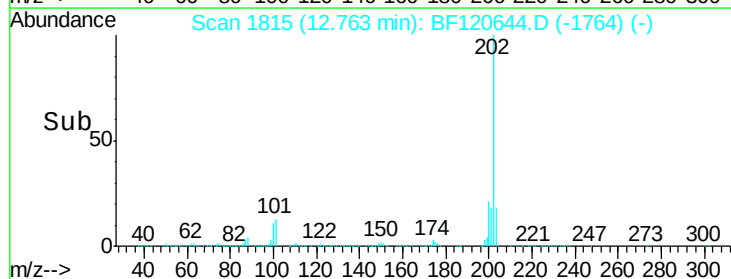
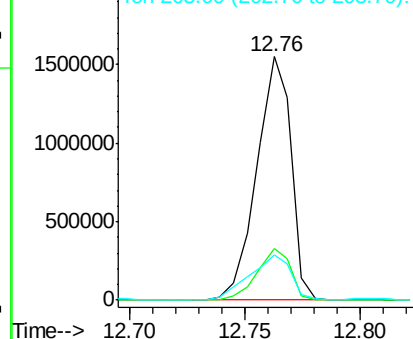


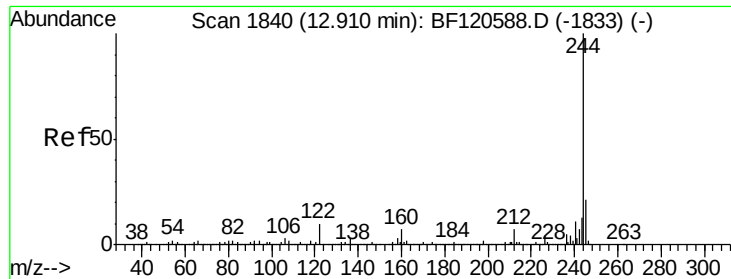
#78
Pyrene
Concen: 62.191 ng
RT: 12.76 min Scan# 1815
Delta R.T. 0.00 min
Lab File: BF120644.D
Acq: 18 Jun 2020 16:14

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.8	25.2
203	18.5	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





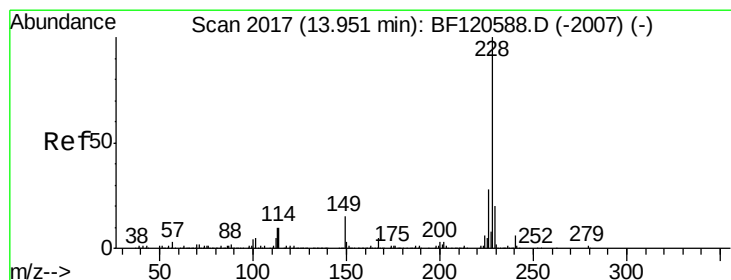
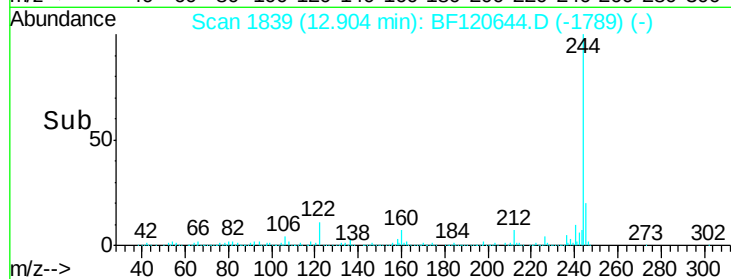
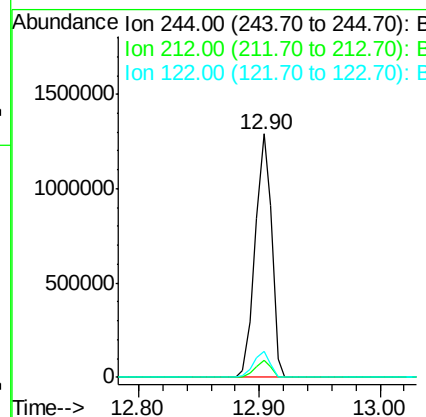
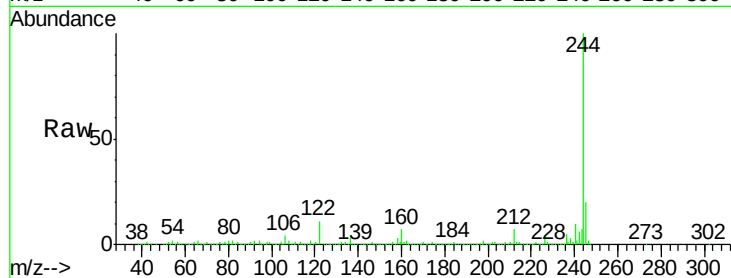
#79
 Terphenyl-d14
 Concen: 74.821 ng
 RT: 12.90 min Scan# 1839
 Delta R.T. -0.01 min
 Lab File: BF120644.D
 Acq: 18 Jun 2020 16:14

Instrument :
 BNA_F
 ClientSampleId :
 ISS-C-C

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	10.9	8.3	12.5

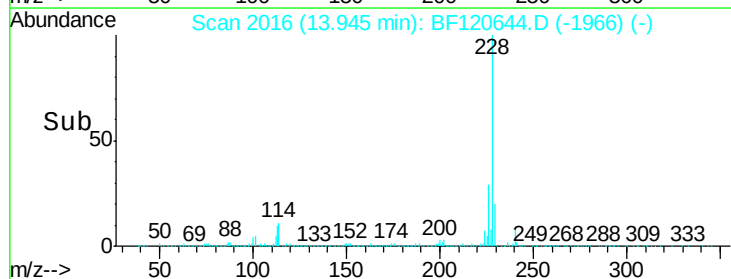
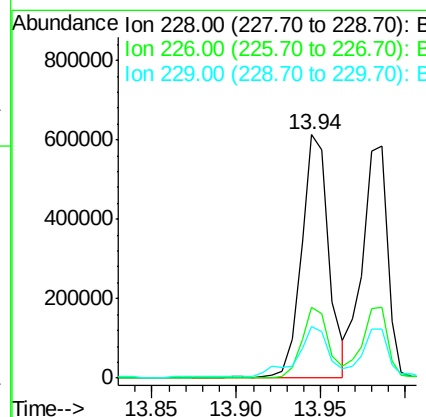
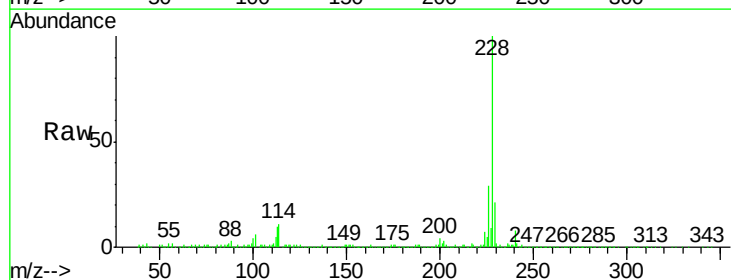
Manual Integrations
 APPROVED

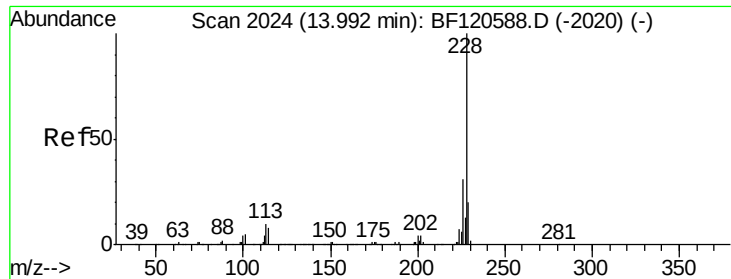
mohammad
 6/19/2020 12:57:52 PM



#81
 Benzo(a)anthracene
 Concen: 31.236 ng
 RT: 13.94 min Scan# 2016
 Delta R.T. -0.01 min
 Lab File: BF120644.D
 Acq: 18 Jun 2020 16:14

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.5	33.7
229	21.0	16.1	24.1





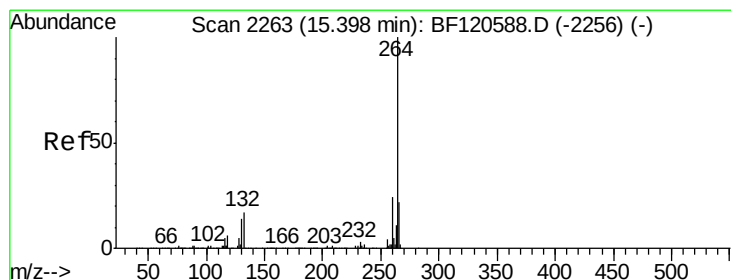
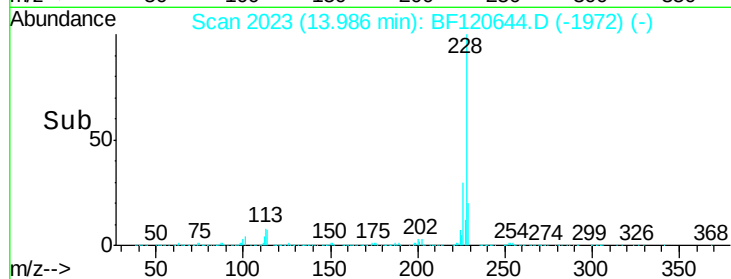
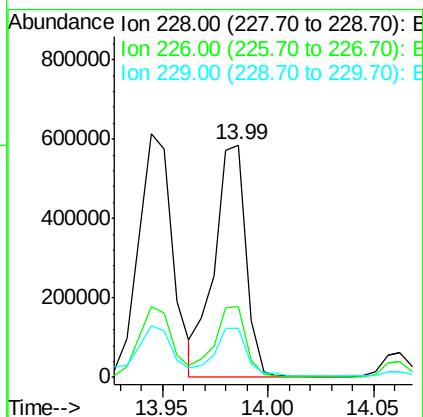
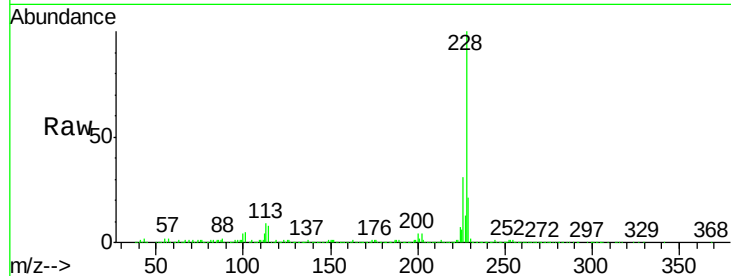
#83
Chrysene
Concen: 27.091 ng
RT: 13.99 min Scan# 2023
Delta R.T. 0.00 min
Lab File: BF120644.D
Acq: 18 Jun 2020 16:14

Instrument :
BNA_F
ClientSampleId :
ISS-C-C

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.9	37.3
229	21.3	16.1	24.1

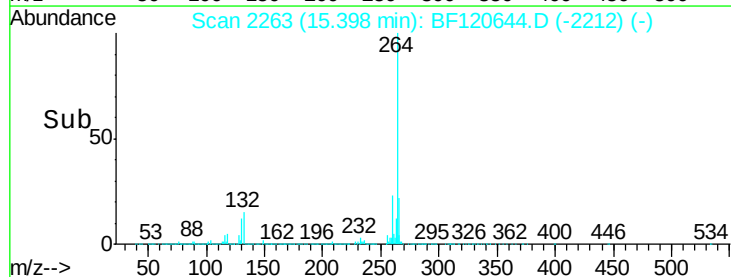
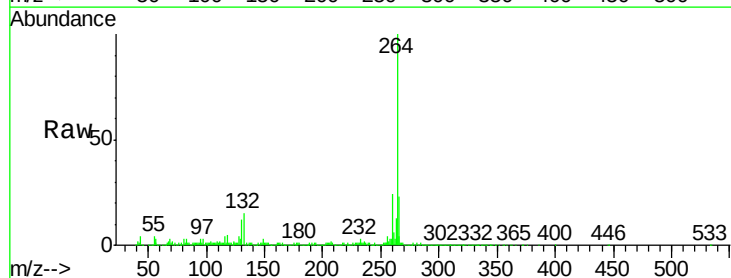
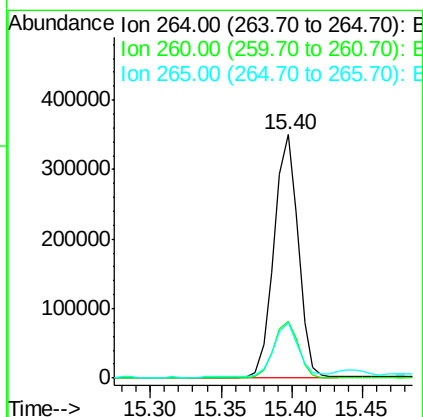
Manual Integrations
APPROVED

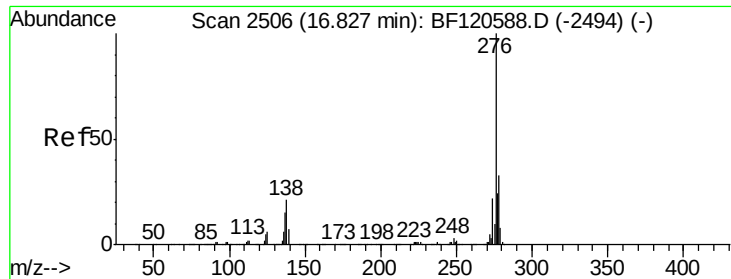
mohammad
6/19/2020 12:57:52 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.40 min Scan# 2263
Delta R.T. 0.00 min
Lab File: BF120644.D
Acq: 18 Jun 2020 16:14

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.3	28.9
265	22.7	17.8	26.8





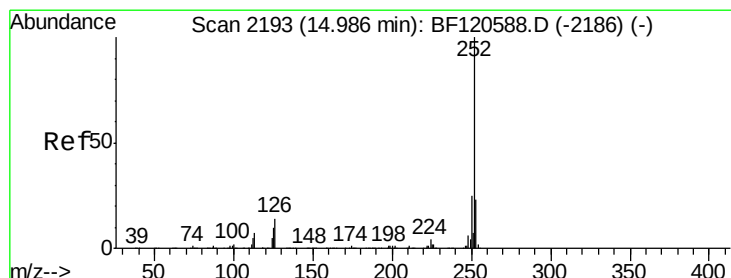
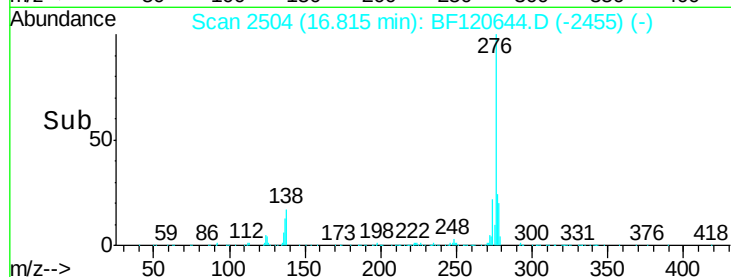
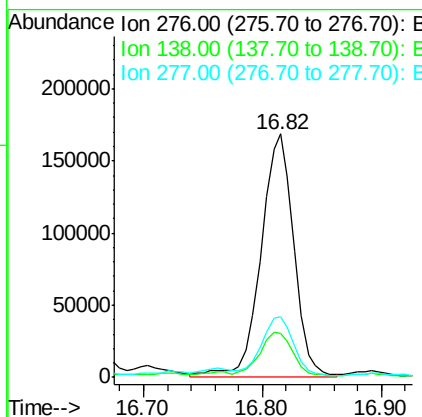
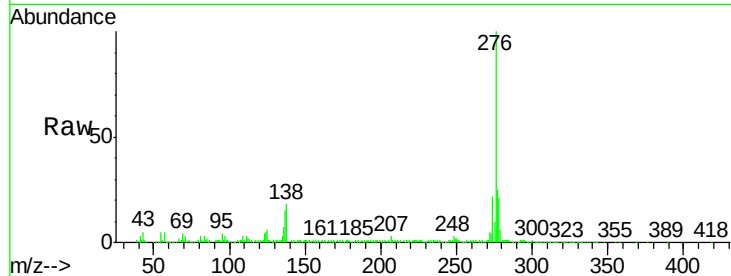
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 12.761 ng m
 RT: 16.82 min Scan# 2504
 Delta R.T. -0.01 min
 Lab File: BF120644.D
 Acq: 18 Jun 2020 16:14

Instrument :
 BNA_F
 ClientSampleId :
 ISS-C-C

Tot Ion	Ratio	Lower	Upper
276	100		
138	3.8	18.9	28.3#
277	4.9	20.2	30.2#

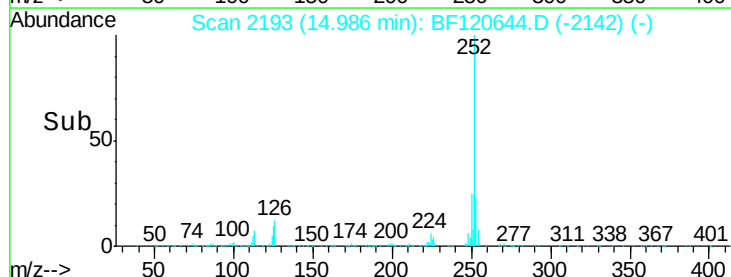
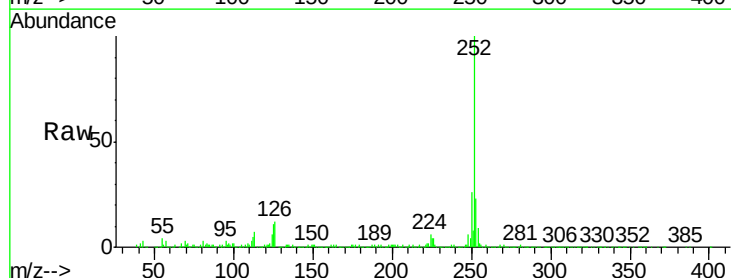
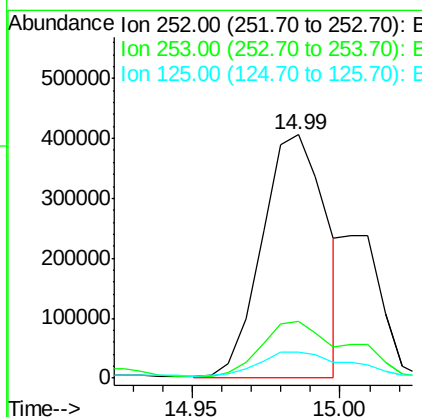
Manual Integrations
 APPROVED

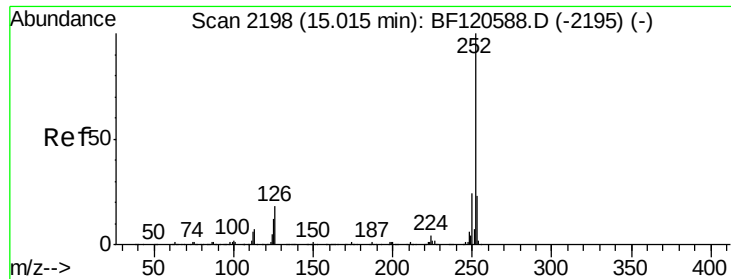
mohammad
 6/19/2020 12:57:52 PM



#88
 Benzo(b)fluoranthene
 Concen: 24.403 ng m
 RT: 14.99 min Scan# 2193
 Delta R.T. 0.00 min
 Lab File: BF120644.D
 Acq: 18 Jun 2020 16:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.1	27.1
125	10.8	8.3	12.5





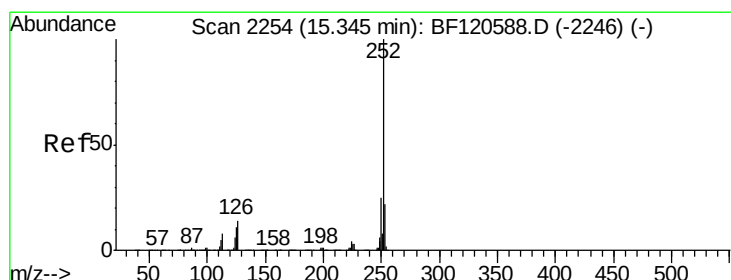
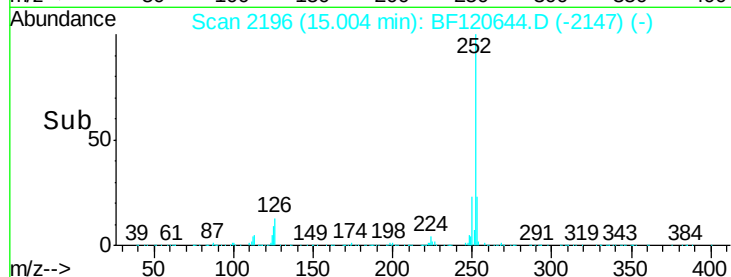
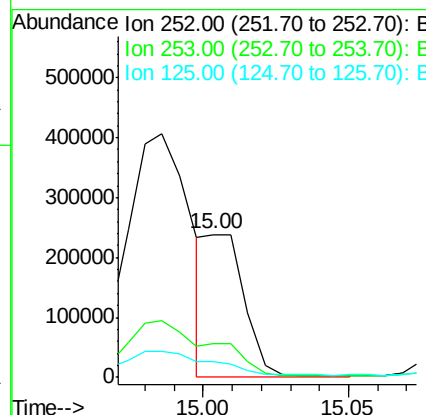
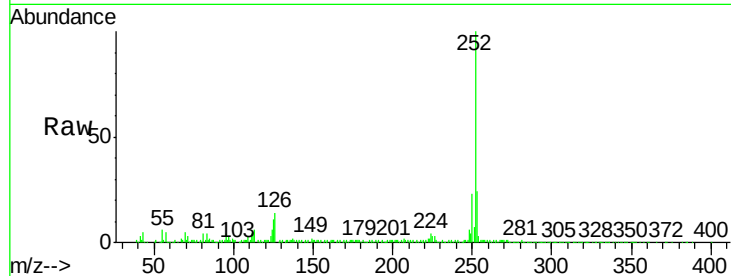
#89
Benzo(k)fluoranthene
Concen: 9.847 ng m
RT: 15.00 min Scan# 2196
Delta R.T. -0.01 min
Lab File: BF120644.D
Acq: 18 Jun 2020 16:14

Instrument :
BNA_F
ClientSampled :
ISS-C-C

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.0	27.0
125	10.9	8.3	12.5

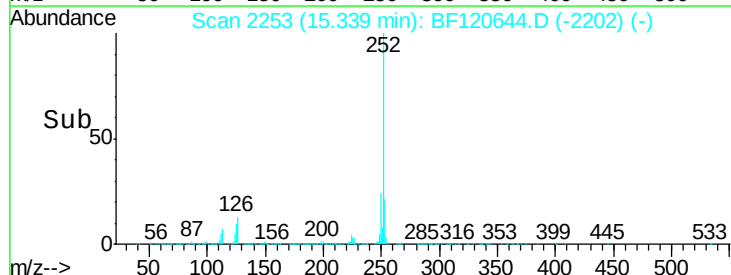
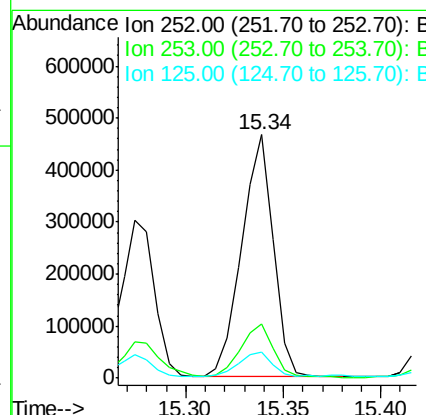
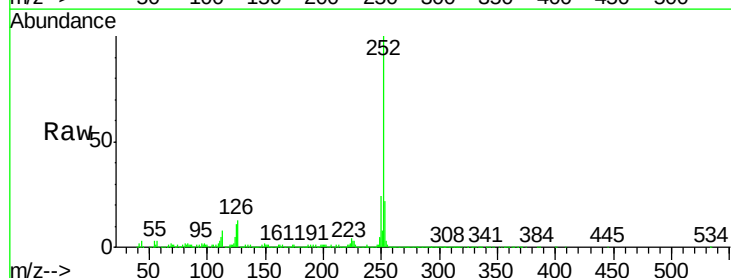
Manual Integrations
APPROVED

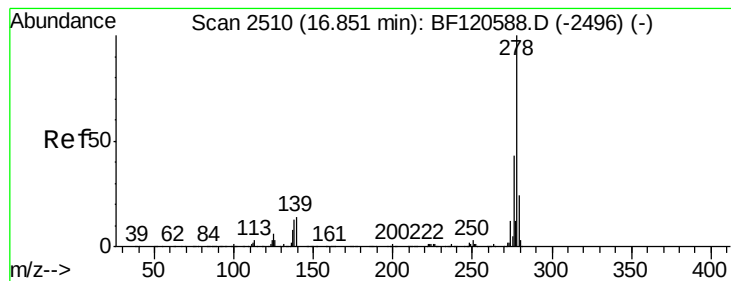
mohammad
6/19/2020 12:57:52 PM



#90
Benzo(a)pyrene
Concen: 23.249 ng
RT: 15.34 min Scan# 2253
Delta R.T. 0.00 min
Lab File: BF120644.D
Acq: 18 Jun 2020 16:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.8
125	10.5	8.6	12.8





#91

Dibenzo(a,h)anthracene

Concen: 3.556 ng

RT: 16.82 min Scan# 2505

Delta R.T. -0.02 min

Lab File: BF120644.D

Acq: 18 Jun 2020 16:14

Instrument :

BNA_F

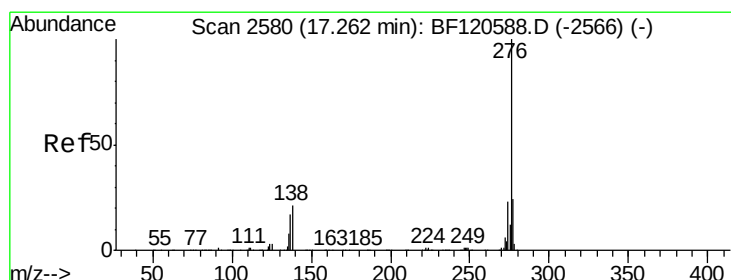
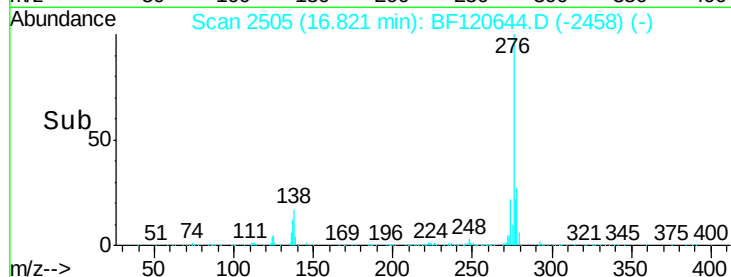
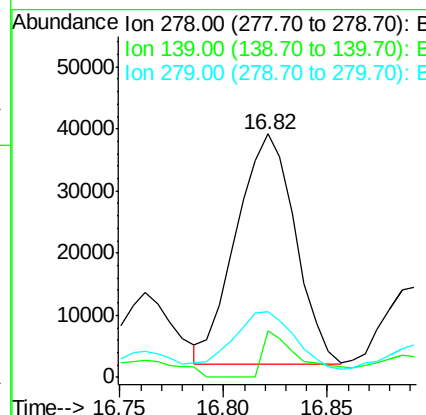
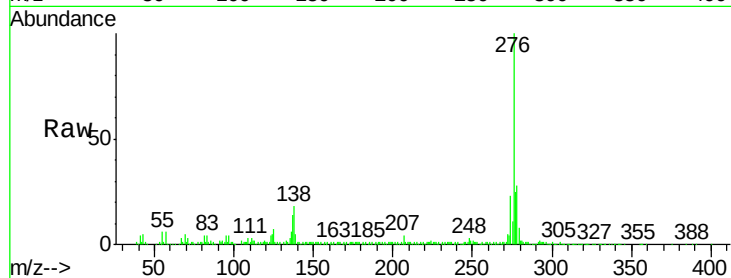
ClientSampled :

ISS-C-C

Tot Ion:	278	Resp:	73163
Ion Ratio	Lower	Upper	
278	100		
139	18.9	11.4	17.2#
279	26.8	19.1	28.7

Manual Integrations
APPROVED

mohammad
6/19/2020 12:57:52 PM



#92

Benzo(g,h,i)perylene

Concen: 18.079 ng

RT: 17.24 min Scan# 2577

Delta R.T. -0.01 min

Lab File: BF120644.D

Acq: 18 Jun 2020 16:14

Tgt Ion:	276	Resp:	374930
Ion Ratio	Lower	Upper	
276	100		
277	23.4	19.6	29.4
138	19.4	16.5	24.7

