

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011320\
 Data File : BF118547.D
 Acq On : 13 Jan 2020 22:58
 Operator : JU
 Sample : L1103-05 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DUP-01-01092020

Manual Integrations
 APPROVED

mohammad
 1/14/2020 2:32:00 PM

Quant Time: Jan 14 14:19:29 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 08 16:06:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	111620	20.00	ng	-0.02
21) Naphthalene-d8	8.10	136	486853	20.00	ng	-0.02
39) Acenaphthene-d10	9.86	164	246874	20.00	ng	-0.02
64) Phenanthrene-d10	11.36	188	400562	20.00	ng	-0.02
76) Chrysene-d12	14.01	240	325814	20.00	ng	-0.03
87) Perylene-d12	15.49	264	271574	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	367222	54.31	ng	-0.01
7) Phenol-d6	6.46	99	475331	58.80	ng	-0.02
23) Nitrobenzene-d5	7.38	82	249582	26.93	ng	-0.02
42) 2,4,6-Tribromophenol	10.66	330	137024	47.04	ng	-0.02
45) 2-Fluorobiphenyl	9.17	172	549827	31.94	ng	-0.03
79) Terphenyl-d14	12.94	244	579736	28.20	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	8.12	128	149817	5.883	ng	98
49) Acenaphthylene	9.72	152	115046	4.841	ng	98
50) Dimethylphthalate	9.57	163	60721	3.205	ng	100
71) Phenanthrene	11.38	178	278735	12.422	ng	99
72) Anthracene	11.43	178	75587	3.386	ng	99
75) Fluoranthene	12.57	202	468783	20.554	ng	98
78) Pyrene	12.80	202	731171	27.276	ng	99
81) Benzo(a)anthracene	14.00	228	365235m	16.015	ng	
83) Chrysene	14.03	228	375522	16.945	ng	96
86) Indeno(1,2,3-cd)pyrene	16.99	276	213339	11.957	ng	97
88) Benzo(b)fluoranthene	15.06	252	437875m	22.301	ng	
89) Benzo(k)fluoranthene	15.09	252	145640m	7.771	ng	
90) Benzo(a)pyrene	15.43	252	293325	18.230	ng	100
91) Dibenzo(a,h)anthracene	16.98	278	48470	3.213	ng	# 77
92) Benzo(a,h,i)perylene	17.44	276	249270	17.437	ng	98

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

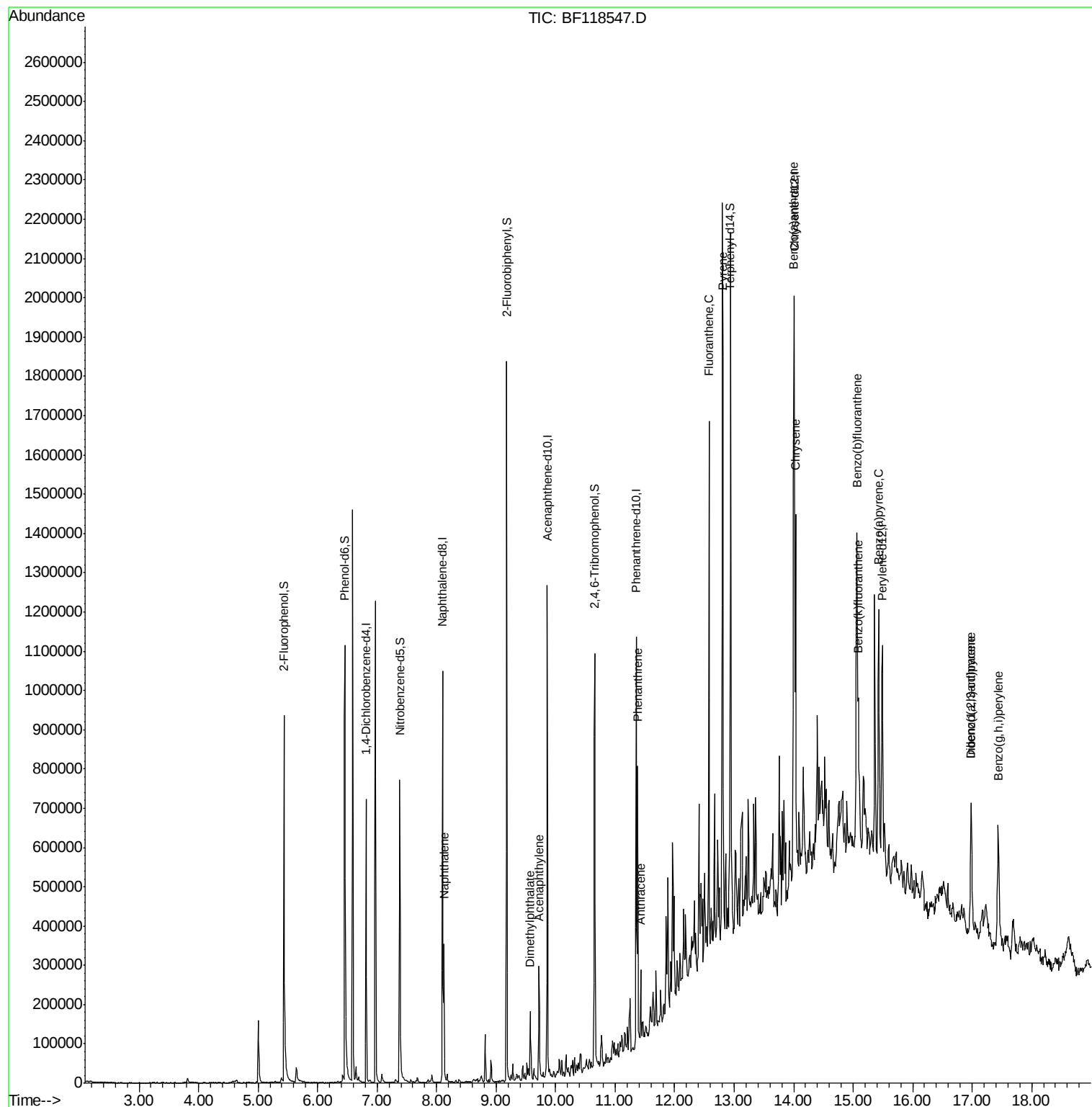
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF011320\
Data File : BF118547.D
Acq On : 13 Jan 2020 22:58
Operator : JU
Sample : L1103-05 2X
Misc :
ALS Vial : 17 Sample Multiplier: 1

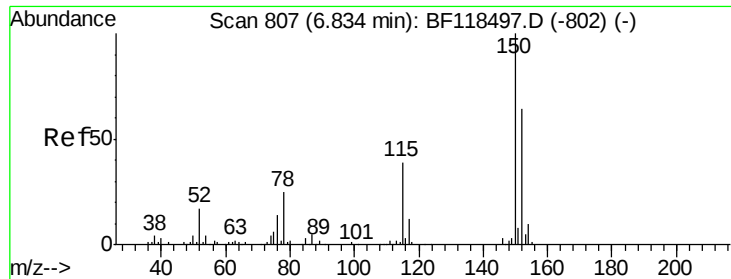
Instrument :
BNA_F
ClientSampleId :
DUP-01-01092020

Manual Integrations
APPROVED

mohammad
1/14/2020 2:32:00 PM

Quant Time: Jan 14 14:19:29 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010820.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 08 16:06:11 2020
Response via : Initial Calibration





#1

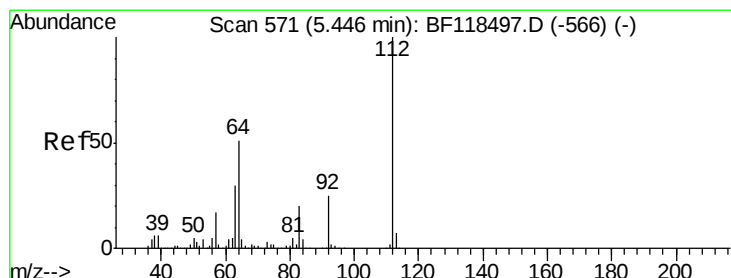
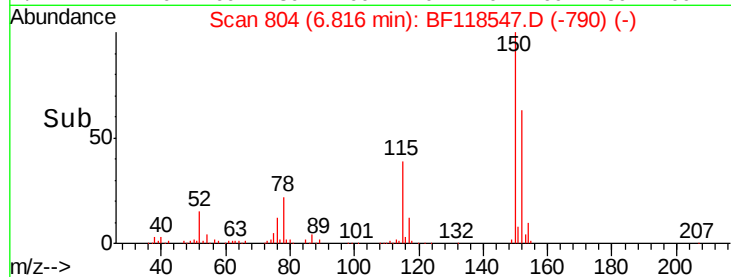
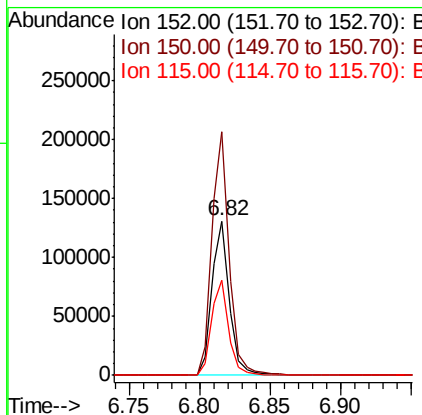
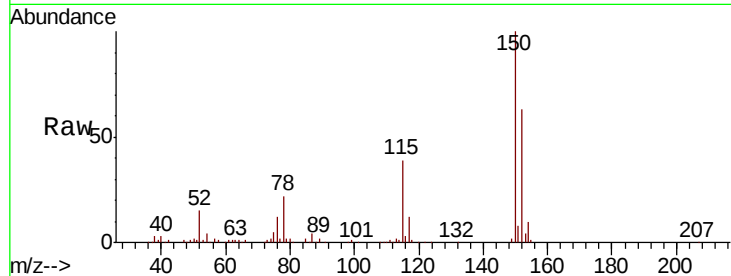
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 804
Delta R.T. -0.02 min
Lab File: BF118547.D
Acq: 13 Jan 2020 22:58

Instrument :
BNA_F
ClientSampleId :
DUP-01-01092020

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.6	124.7	187.1
115	61.3	49.0	73.6

Manual Integrations
APPROVED

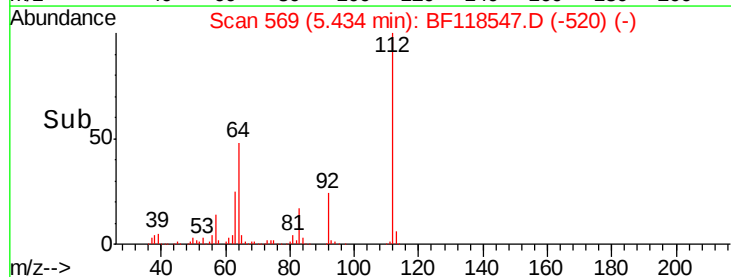
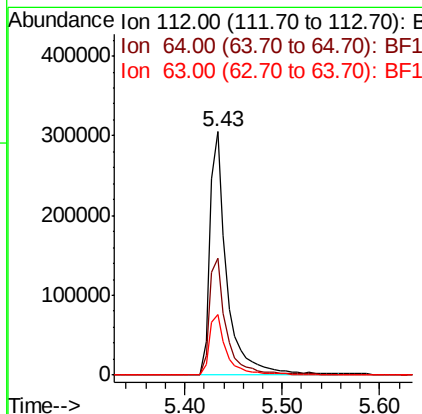
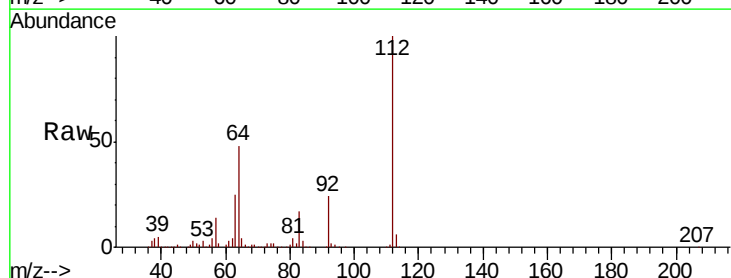
mohammad
1/14/2020 2:32:00 PM

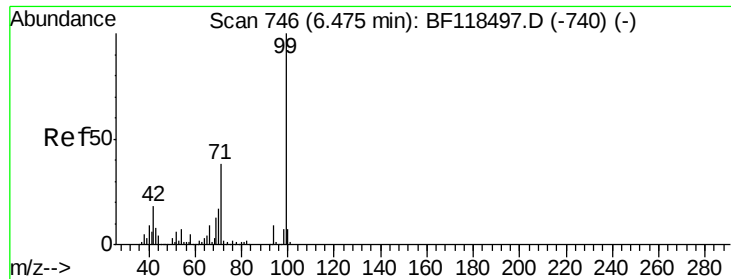


#5

2-Fluorophenol
Concen: 54.308 ng
RT: 5.43 min Scan# 569
Delta R.T. -0.01 min
Lab File: BF118547.D
Acq: 13 Jan 2020 22:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	48.1	41.1	61.7
63	25.1	24.1	36.1





#7

Phenol-d6

Concen: 58.798 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.02 min

Lab File: BF118547.D

Acq: 13 Jan 2020 22:58

Instrument :

BNA_F

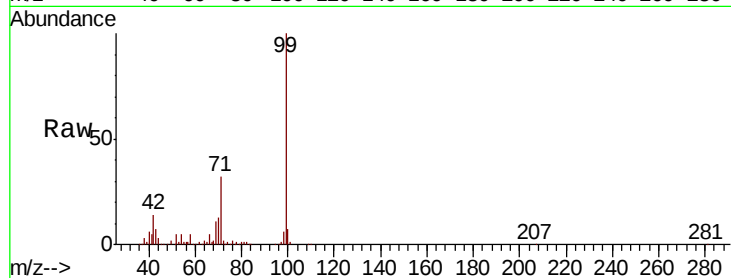
ClientSampleId :

DUP-01-01092020

Tot Ion:	99	Resp:	475331
Ion	Ratio	Lower	Upper
99	100		
42	13.7	14.5	21.7#
71	32.5	30.6	45.8

Manual Integrations
APPROVED

mohammad
1/14/2020 2:32:00 PM

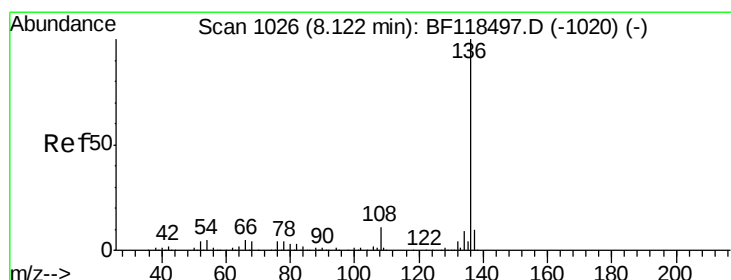
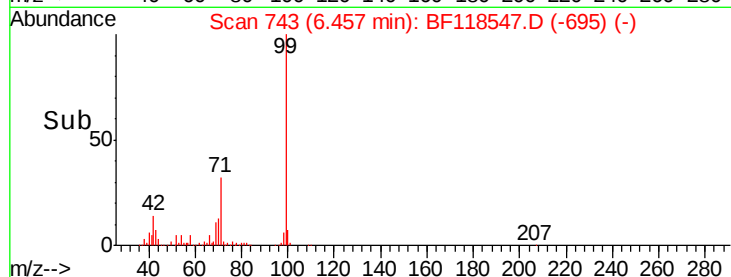
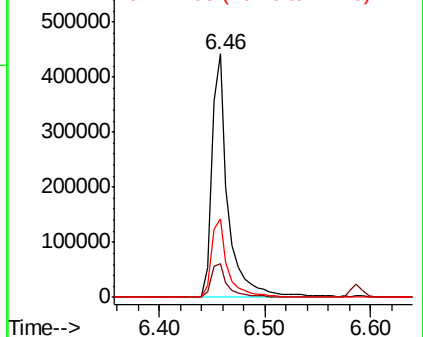


Abundance

Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.10 min Scan# 1022

Delta R.T. -0.02 min

Lab File: BF118547.D

Acq: 13 Jan 2020 22:58

Tgt Ion:	136	Resp:	486853
Ion	Ratio	Lower	Upper
136	100		
137	11.6	8.3	12.5
54	5.7	4.2	6.2
68	4.8	3.3	4.9

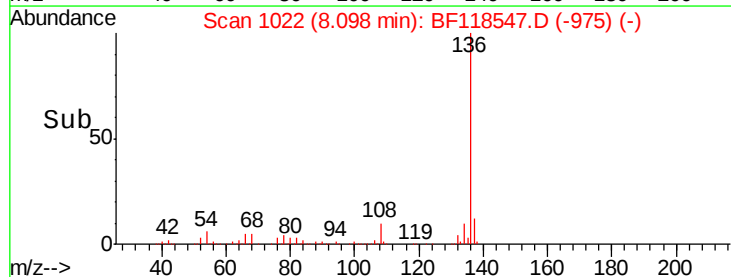
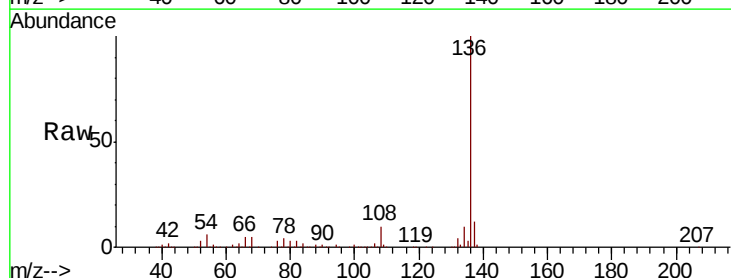
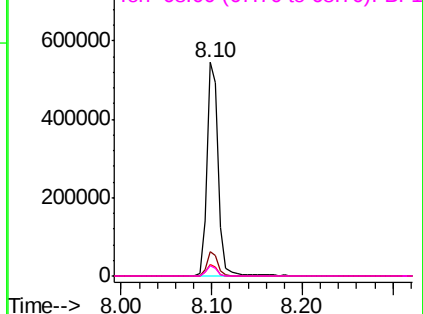
Abundance

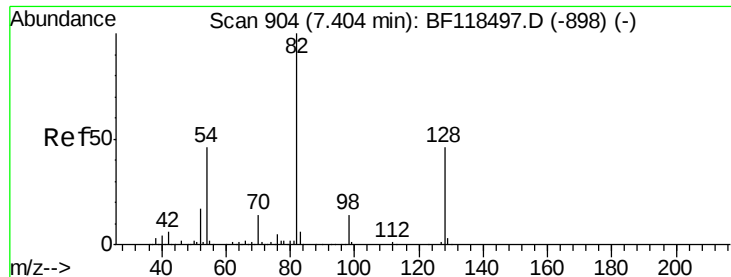
Ion 136.00 (135.70 to 136.70): E

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





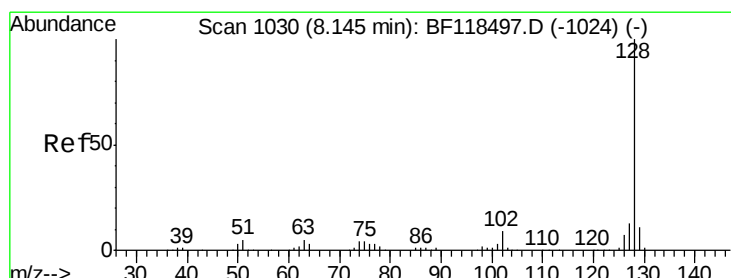
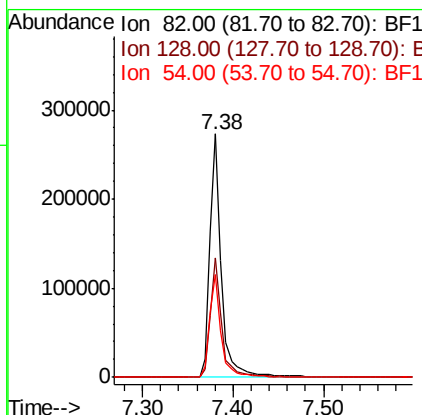
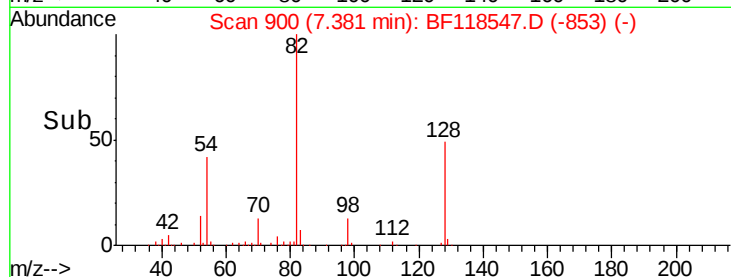
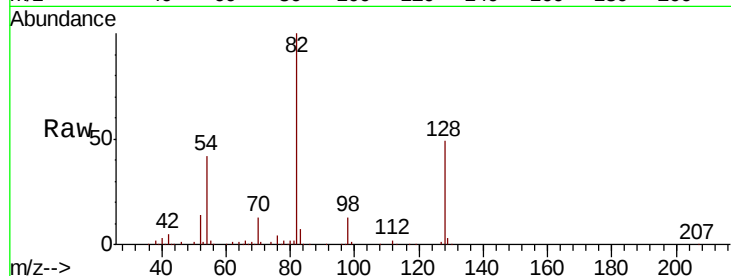
#23
Nitrobenzene-d5
Concen: 26.930 ng
RT: 7.38 min Scan# 900
Delta R.T. -0.02 min
Lab File: BF118547.D
Acq: 13 Jan 2020 22:58

Instrument :
BNA_F
ClientSampleId :
DUP-01-01092020

Tot Ion	Ratio	Lower	Upper
82	100		
128	49.3	36.6	54.8
54	42.2	37.0	55.6

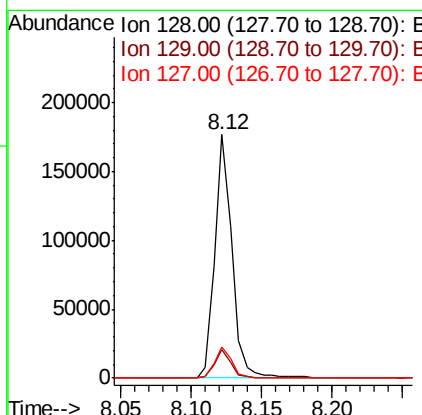
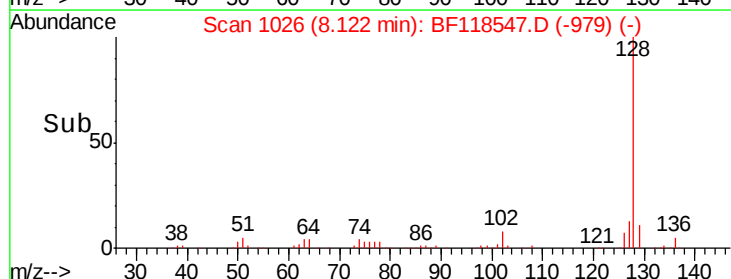
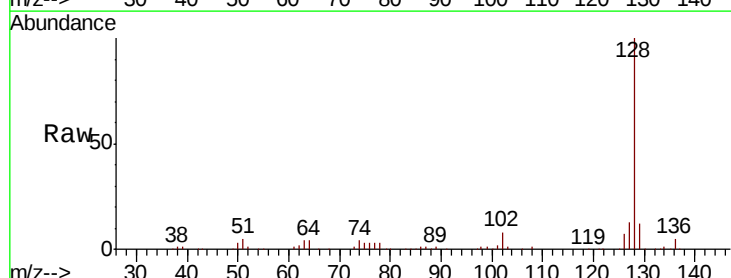
Manual Integrations
APPROVED

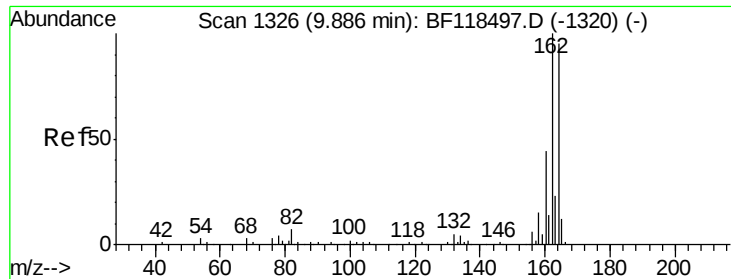
mohammad
1/14/2020 2:32:00 PM



#31
Naphthalene
Concen: 5.883 ng
RT: 8.12 min Scan# 1026
Delta R.T. -0.02 min
Lab File: BF118547.D
Acq: 13 Jan 2020 22:58

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.6	8.6	12.8
127	13.0	10.7	16.1





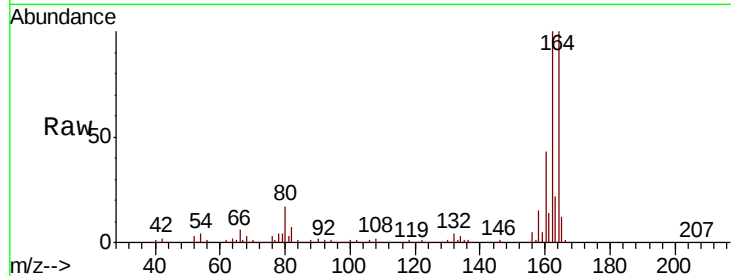
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.86 min Scan# 1322
Delta R.T. -0.02 min
Lab File: BF118547.D
Acq: 13 Jan 2020 22:58

Instrument :
BNA_F
ClientSampleId :
DUP-01-01092020

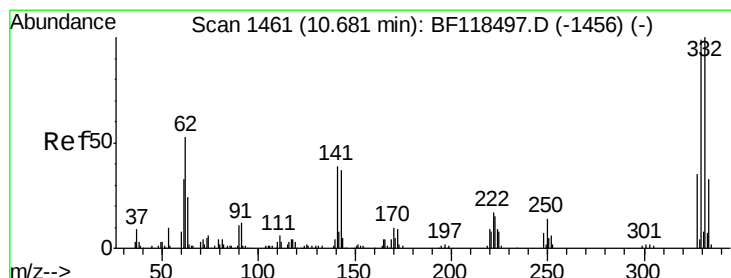
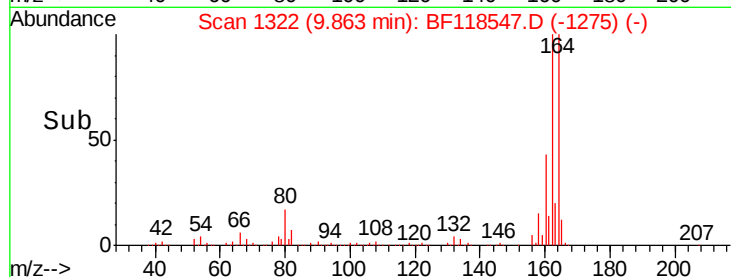
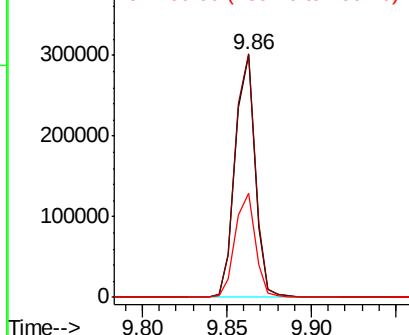
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	100.3	84.2	126.4	
160	43.1	36.8	55.2	

Manual Integrations
APPROVED

mohammad
1/14/2020 2:32:00 PM

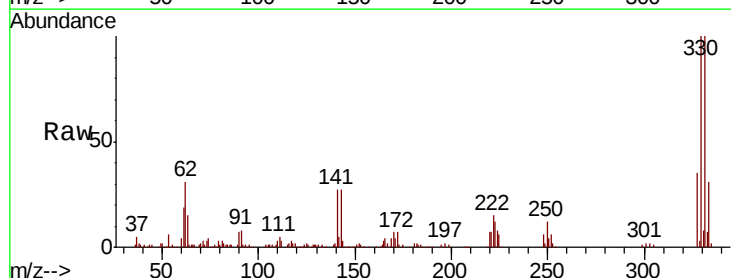


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

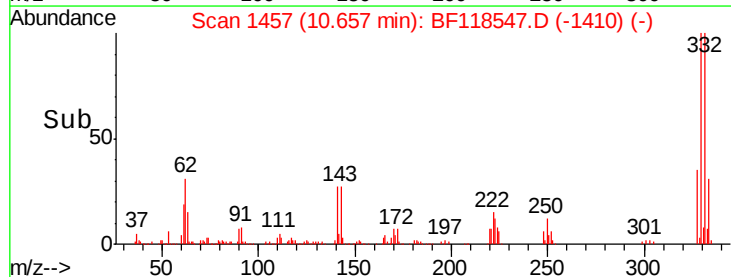
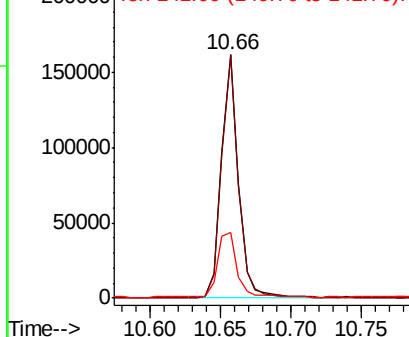


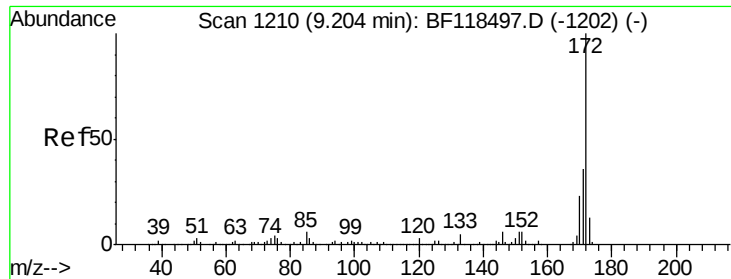
#42
2,4,6-Tribromophenol
Concen: 47.038 ng
RT: 10.66 min Scan# 1457
Delta R.T. -0.02 min
Lab File: BF118547.D
Acq: 13 Jan 2020 22:58

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	98.7	77.9	116.9	
141	31.5	28.6	43.0	



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





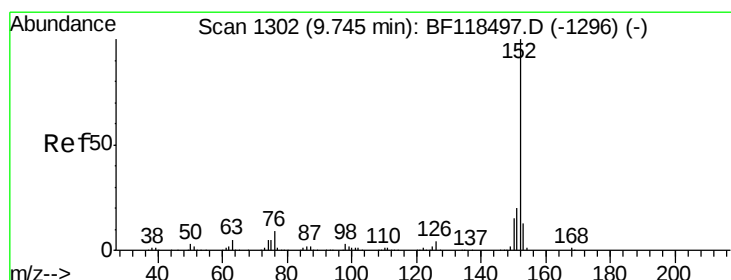
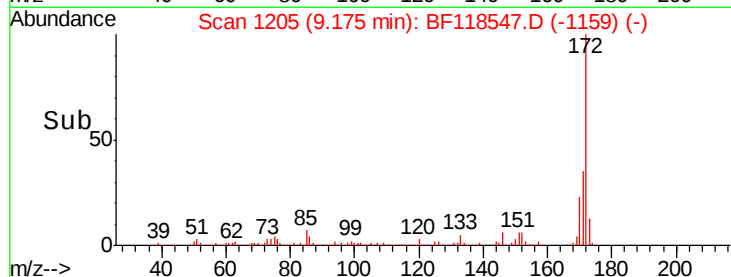
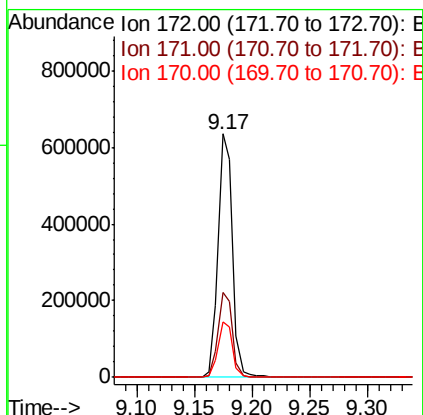
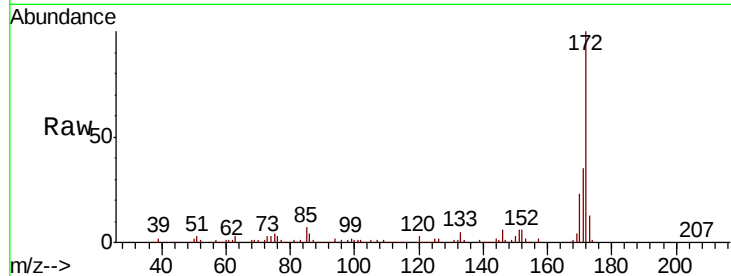
#45
2-Fluorobiphenyl
Concen: 31.942 ng
RT: 9.17 min Scan# 1205
Delta R.T. -0.03 min
Lab File: BF118547.D
Acq: 13 Jan 2020 22:58

Instrument :
BNA_F
ClientSampleId :
DUP-01-01092020

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.6	42.8
170	22.7	18.6	27.8

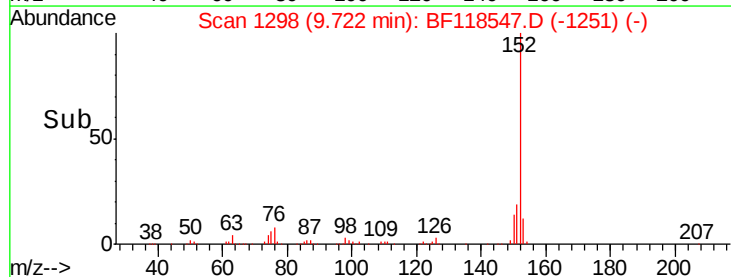
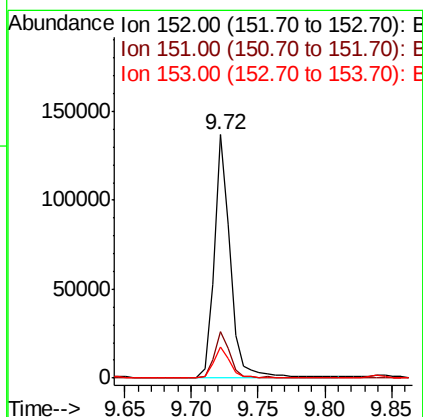
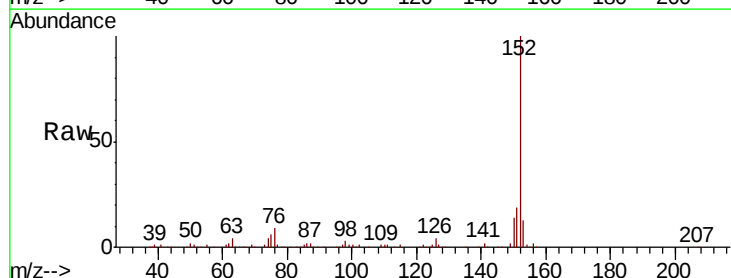
Manual Integrations
APPROVED

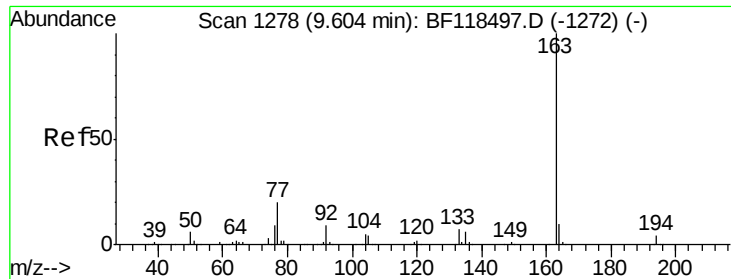
mohammad
1/14/2020 2:32:00 PM



#49
Acenaphthylene
Concen: 4.841 ng
RT: 9.72 min Scan# 1298
Delta R.T. -0.02 min
Lab File: BF118547.D
Acq: 13 Jan 2020 22:58

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.2	16.3	24.5
153	12.9	10.6	16.0





#50

Dimethylphthalate

Concen: 3.205 ng

RT: 9.57 min Scan# 1273

Delta R.T. -0.03 min

Lab File: BF118547.D

Acq: 13 Jan 2020 22:58

Instrument :

BNA_F

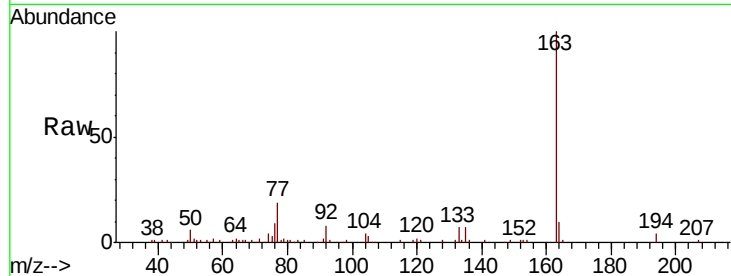
ClientSampleId :

DUP-01-01092020

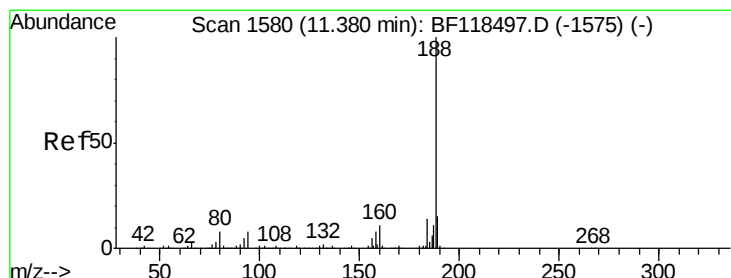
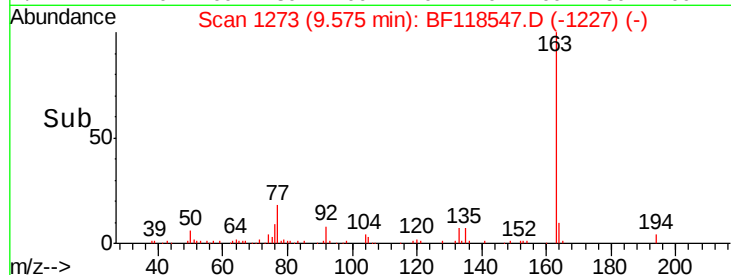
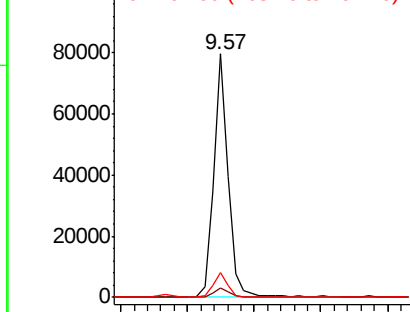
Tot Ion:	163	Resp:	60721
Ion Ratio	Lower	Upper	
163	100		
194	3.7	3.0	4.6
164	10.2	8.1	12.1

Manual Integrations
APPROVED

mohammad
1/14/2020 2:32:00 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



#64

Phenanthrene-d10

Concen: 20.000 ng

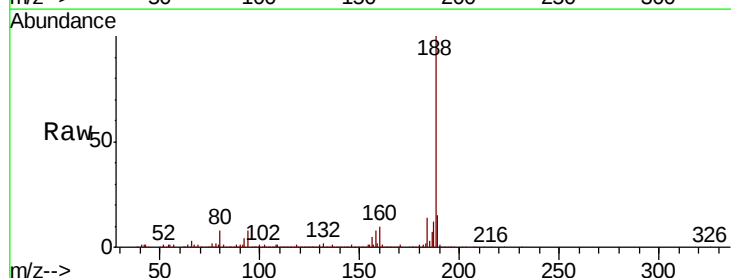
RT: 11.36 min Scan# 1576

Delta R.T. -0.02 min

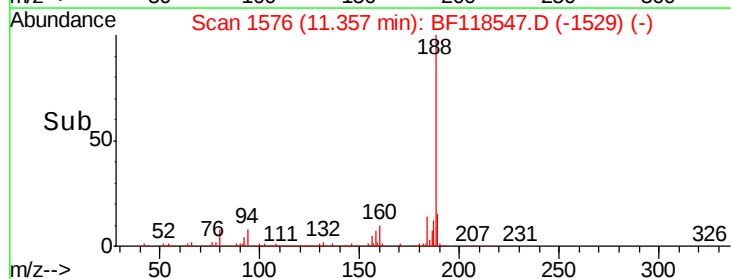
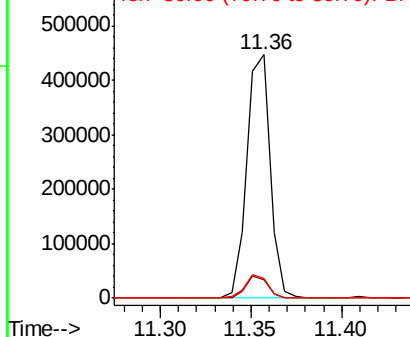
Lab File: BF118547.D

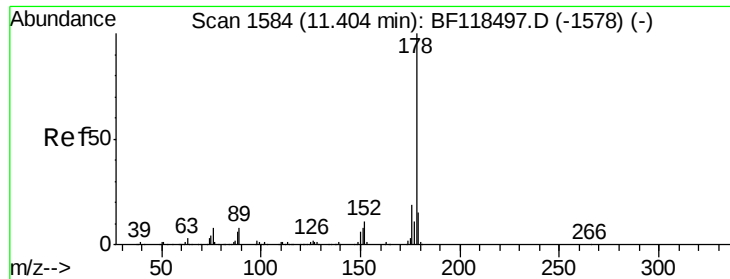
Acq: 13 Jan 2020 22:58

Tgt Ion:	188	Resp:	400562
Ion Ratio	Lower	Upper	
188	100		
94	7.7	6.2	9.4
80	8.1	6.6	10.0



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1





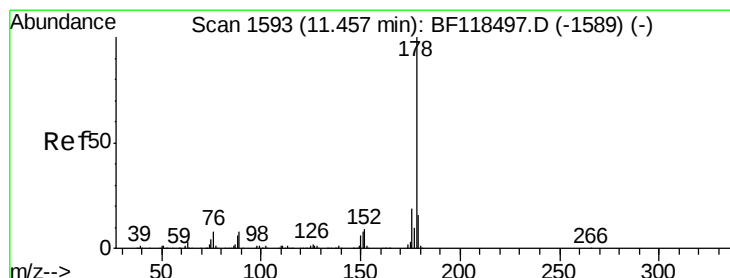
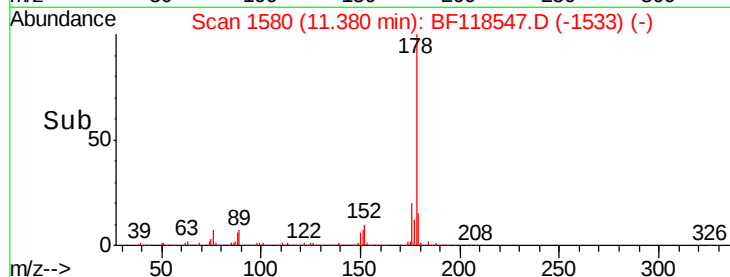
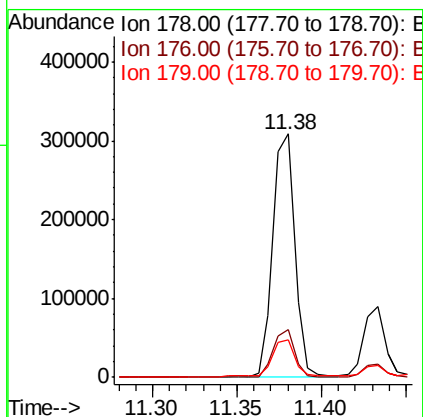
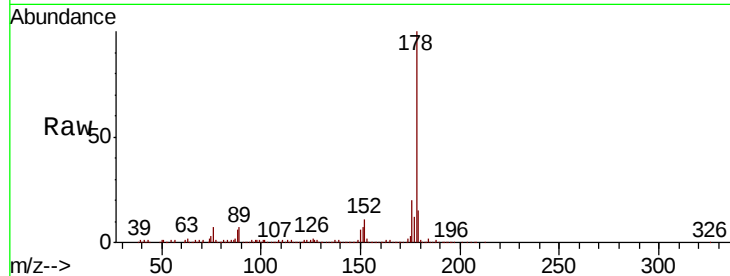
#71
Phenanthrene
Concen: 12.422 ng
RT: 11.38 min Scan# 1580
Delta R.T. -0.02 min
Lab File: BF118547.D
Acq: 13 Jan 2020 22:58

Instrument :
BNA_F
ClientSampleId :
DUP-01-01092020

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.2	22.8
179	15.3	12.3	18.5

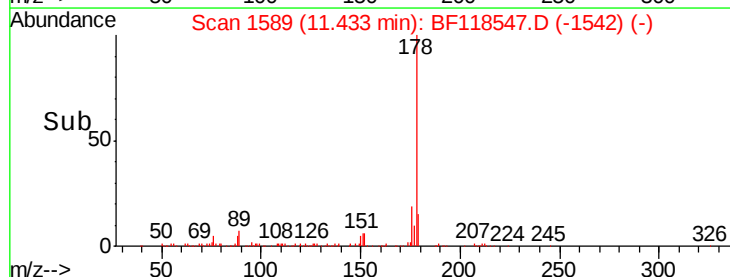
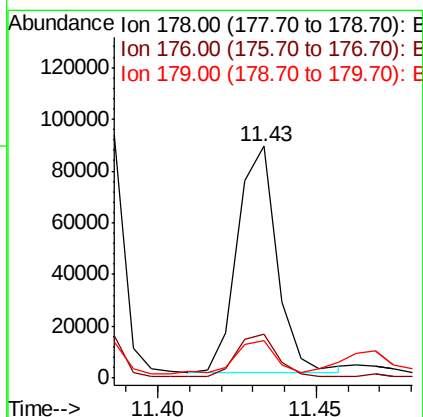
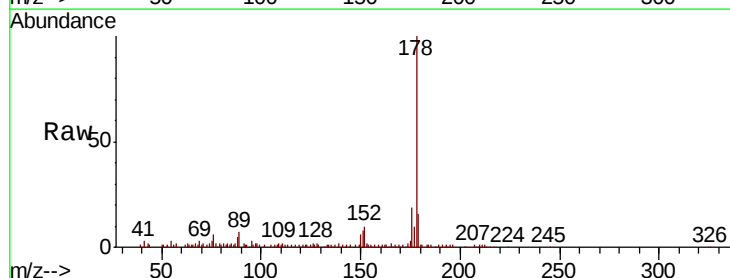
Manual Integrations
APPROVED

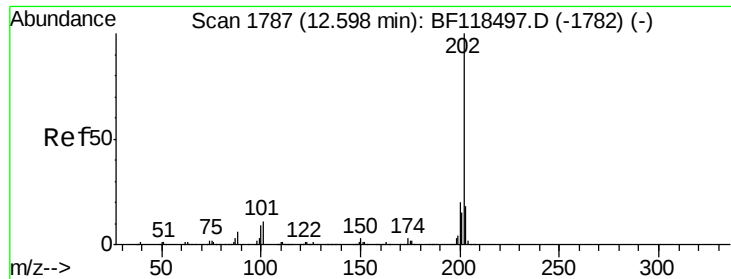
mohammad
1/14/2020 2:32:00 PM



#72
Anthracene
Concen: 3.386 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.02 min
Lab File: BF118547.D
Acq: 13 Jan 2020 22:58

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.0	22.4
179	16.4	12.6	19.0





#75

Fluoranthene

Concen: 20.554 ng

RT: 12.57 min Scan# 1783

Delta R.T. -0.02 min

Lab File: BF118547.D

Acq: 13 Jan 2020 22:58

Instrument :

BNA_F

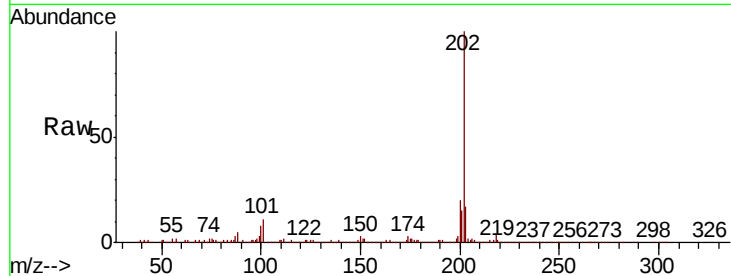
ClientSampleId :

DUP-01-01092020

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	10.8	0.0	31.4
203	17.2	0.0	38.1

Manual Integrations
APPROVED

mohammad
1/14/2020 2:32:00 PM

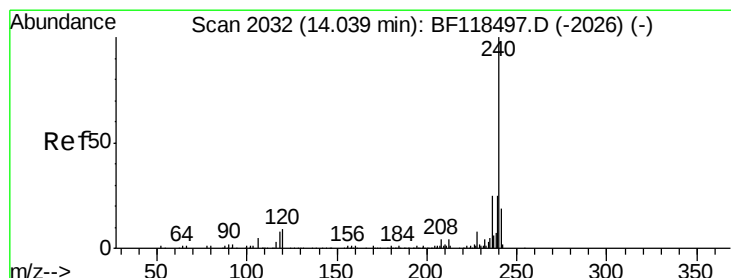
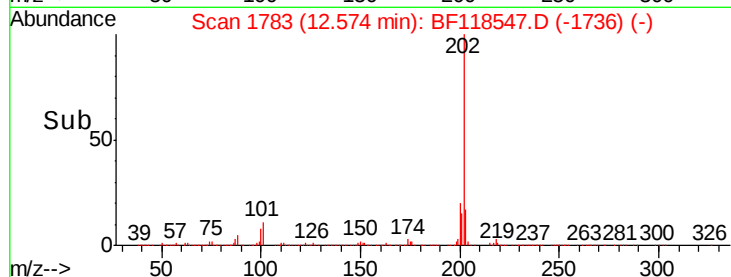
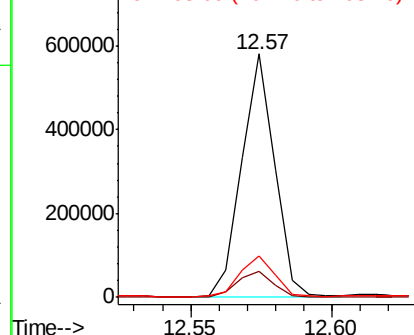


Abundance

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

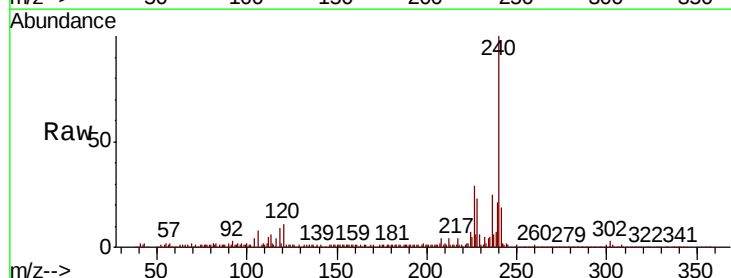
RT: 14.01 min Scan# 2027

Delta R.T. -0.03 min

Lab File: BF118547.D

Acq: 13 Jan 2020 22:58

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	10.6	7.0	10.6#
236	25.1	20.1	30.1

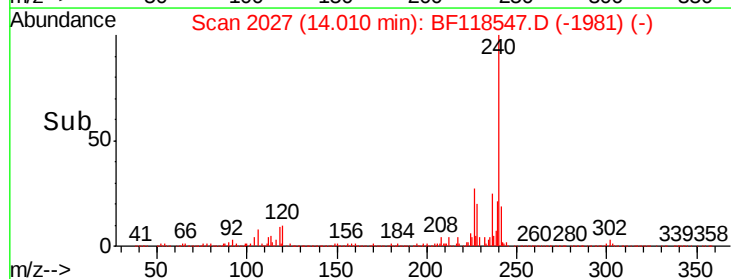
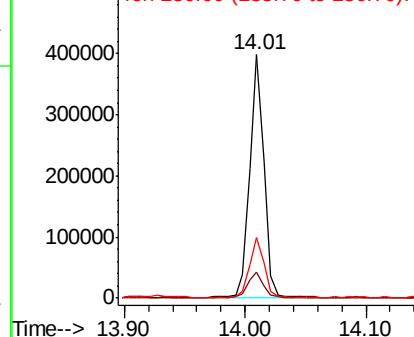


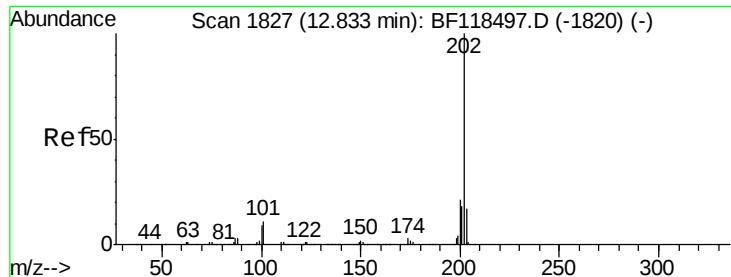
Abundance

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





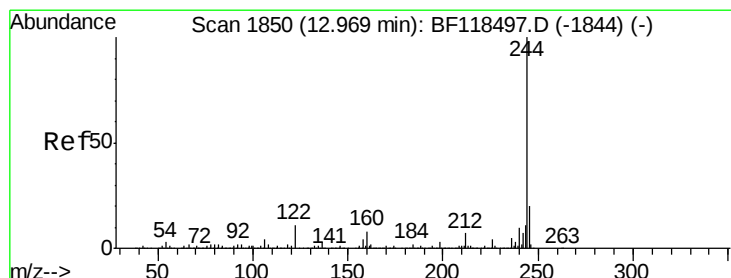
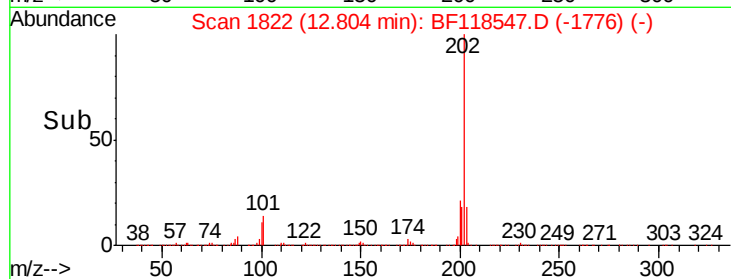
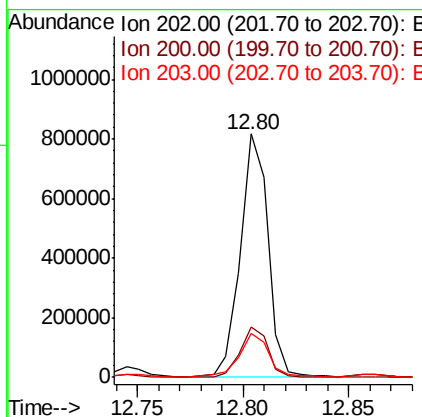
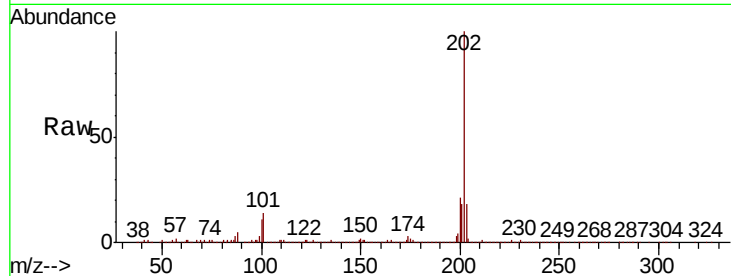
#78
Pvrene
Concen: 27.276 ng
RT: 12.80 min Scan# 1822
Delta R.T. -0.03 min
Lab File: BF118547.D
Acq: 13 Jan 2020 22:58

Instrument :
BNA_F
ClientSampleId :
DUP-01-01092020

Tot Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.9	25.3
203	18.0	13.9	20.9

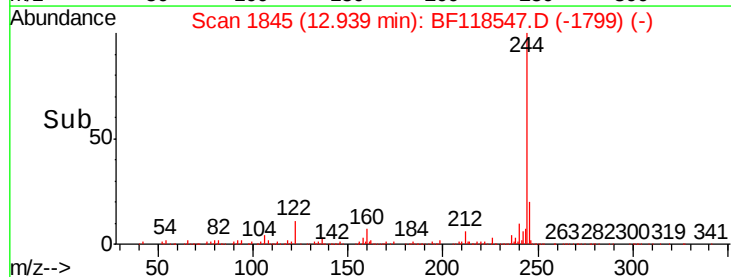
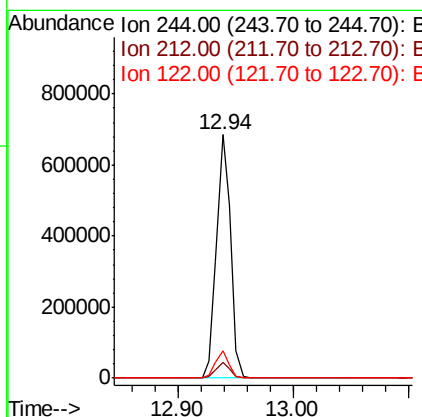
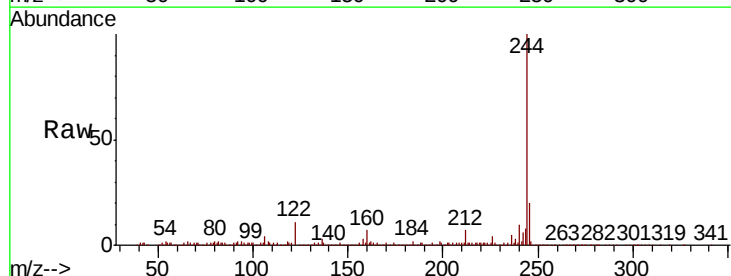
Manual Integrations
APPROVED

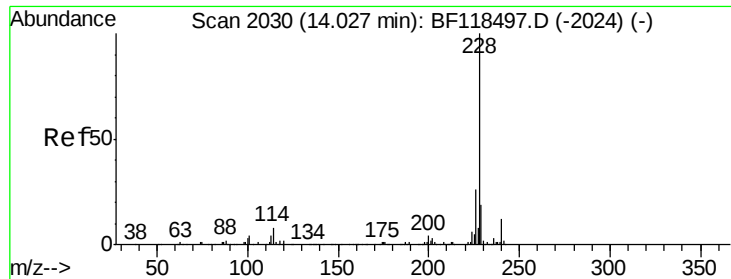
mohammad
1/14/2020 2:32:00 PM



#79
Terphenyl-d14
Concen: 28.197 ng
RT: 12.94 min Scan# 1845
Delta R.T. -0.03 min
Lab File: BF118547.D
Acq: 13 Jan 2020 22:58

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.6	8.4
122	11.0	9.0	13.6





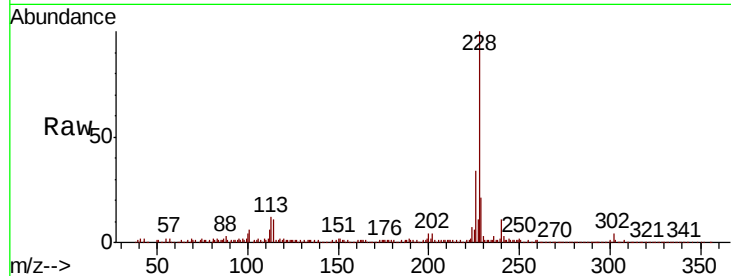
#81
Benzo(a)anthracene
Concen: 16.015 ng m
RT: 14.00 min Scan# 2025
Delta R.T. -0.03 min
Lab File: BF118547.D
Acq: 13 Jan 2020 22:58

Instrument :
BNA_F
ClientSampleId :
DUP-01-01092020

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.9	20.7	31.1#
229	21.2	15.4	23.2

Manual Integrations
APPROVED

mohammad
1/14/2020 2:32:00 PM

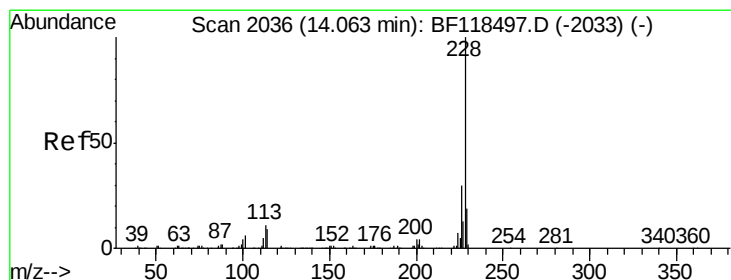
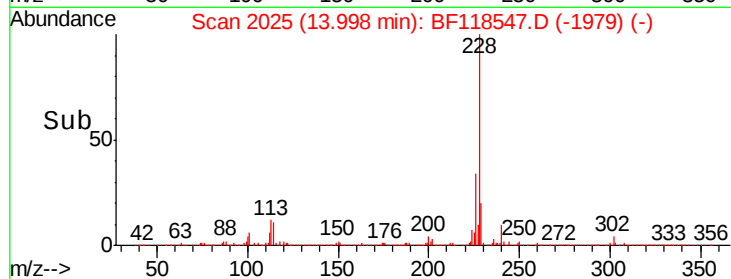
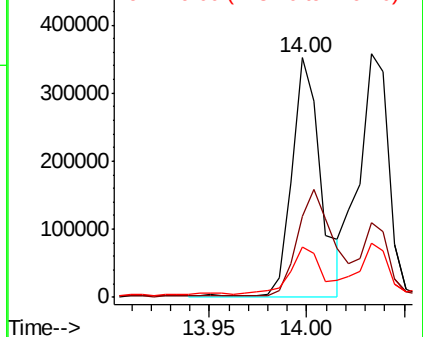


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83
Chrysene
Concen: 16.945 ng
RT: 14.03 min Scan# 2031
Delta R.T. -0.03 min
Lab File: BF118547.D
Acq: 13 Jan 2020 22:58

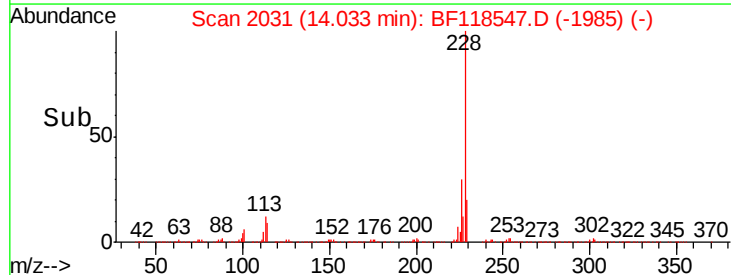
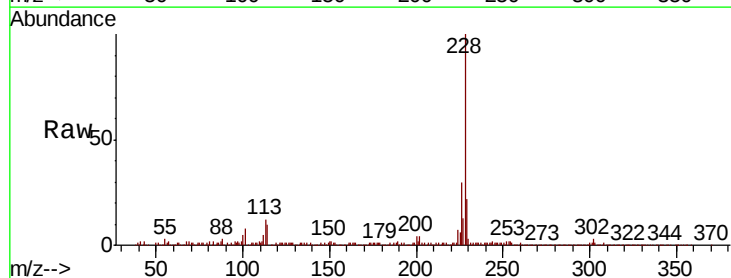
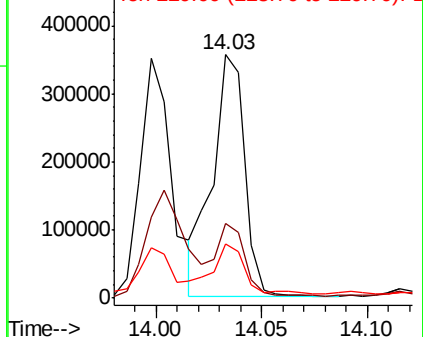
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.6	35.4
229	22.4	15.6	23.4

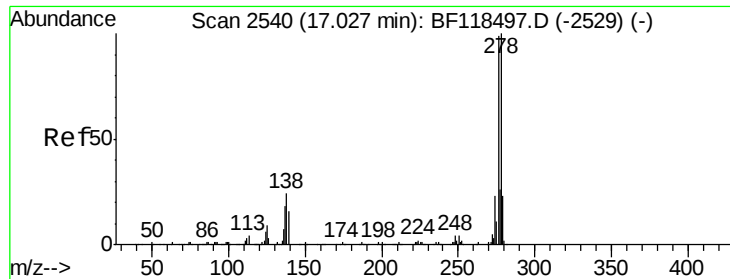
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





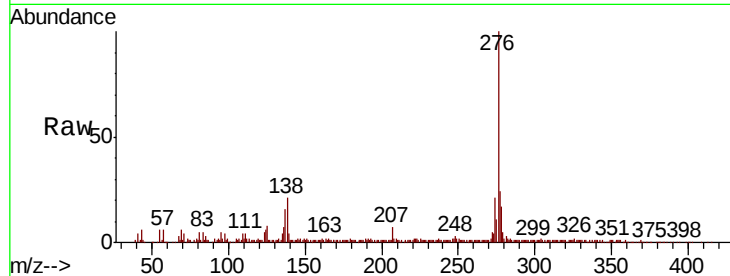
#86
Indeno(1,2,3-cd)pyrene
Concen: 11.957 ng
RT: 16.99 min Scan# 2533
Delta R.T. -0.04 min
Lab File: BF118547.D
Acq: 13 Jan 2020 22:58

Instrument :
BNA_F
ClientSampleId :
DUP-01-01092020

Tot Ion:	276	Resp:	213339
Ion Ratio	Lower	Upper	
276	100		
138	21.5	19.0	28.4
277	24.6	20.5	30.7

Manual Integrations
APPROVED

mohammad
1/14/2020 2:32:00 PM

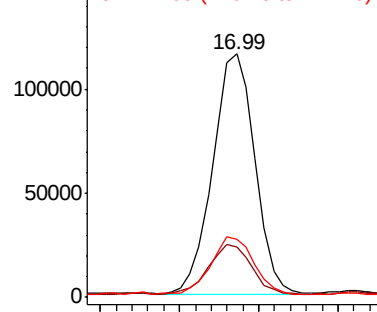


Abundance

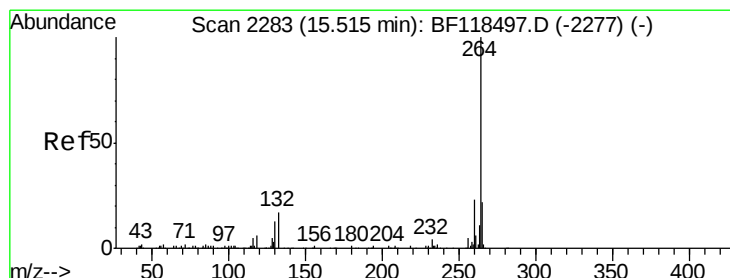
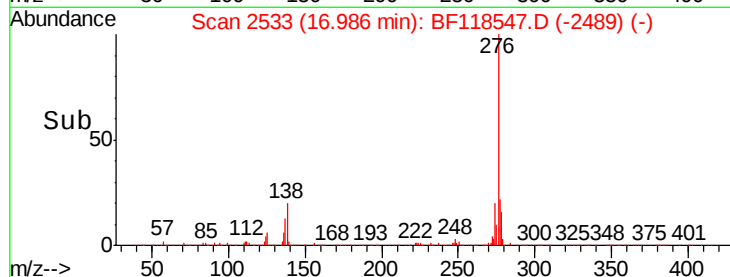
Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



Time-->



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2279
Delta R.T. -0.02 min
Lab File: BF118547.D
Acq: 13 Jan 2020 22:58

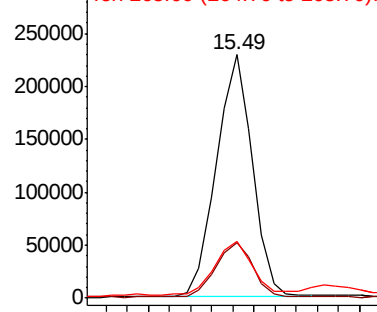
Tgt Ion:	264	Resp:	271574
Ion Ratio	Lower	Upper	
264	100		
260	22.9	18.8	28.2
265	23.2	17.5	26.3

Abundance

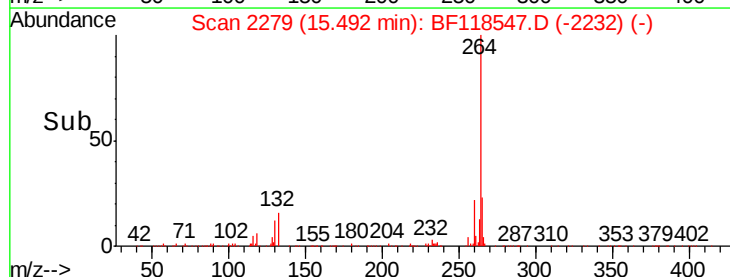
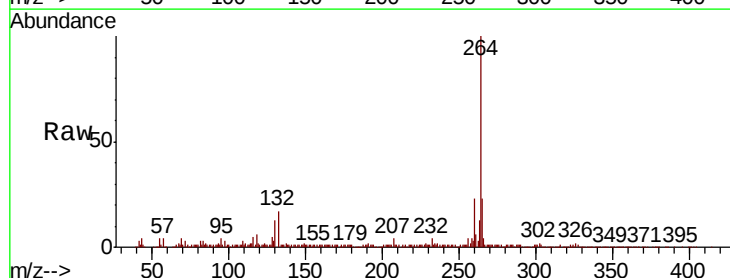
Ion 264.00 (263.70 to 264.70): E

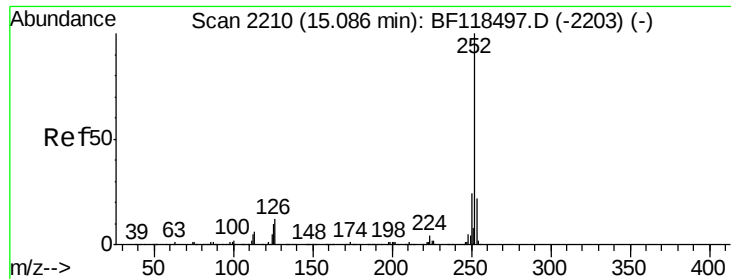
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



Time-->





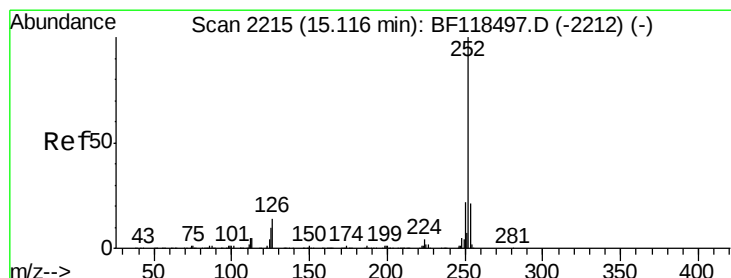
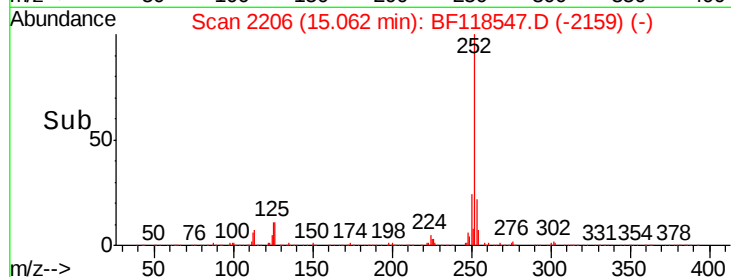
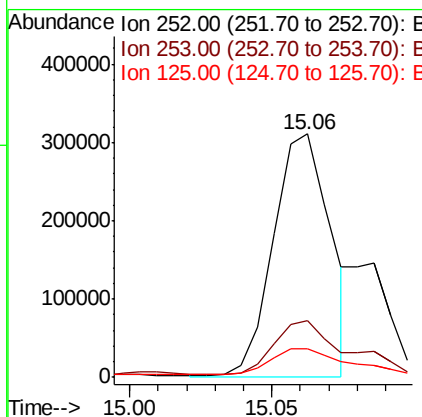
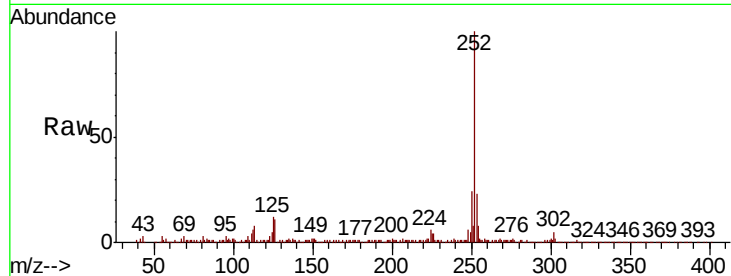
#88
Benzo(b)fluoranthene
Concen: 22.301 ng m
RT: 15.06 min Scan# 2206
Delta R.T. -0.02 min
Lab File: BF118547.D
Acq: 13 Jan 2020 22:58

Instrument :
BNA_F
ClientSampleId :
DUP-01-01092020

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.6	26.4
125	11.8	7.8	11.6

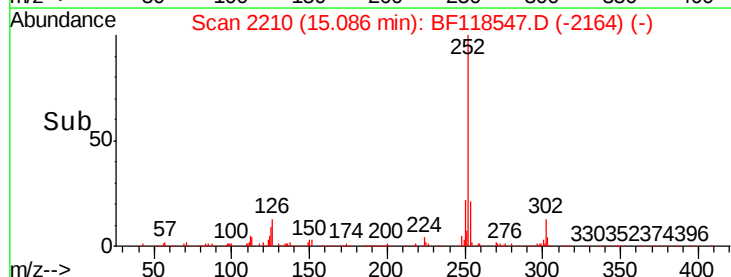
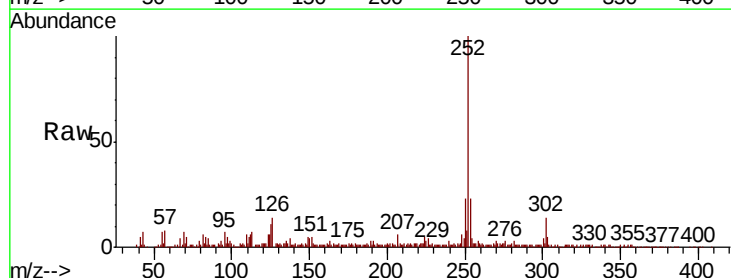
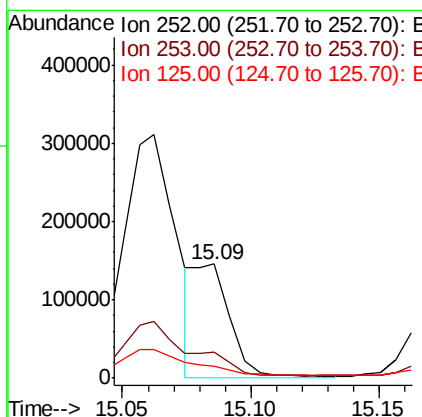
Manual Integrations
APPROVED

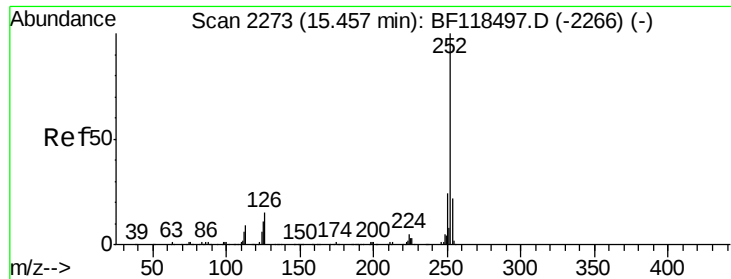
mohammad
1/14/2020 2:32:00 PM



#89
Benzo(k)fluoranthene
Concen: 7.771 ng m
RT: 15.09 min Scan# 2210
Delta R.T. -0.03 min
Lab File: BF118547.D
Acq: 13 Jan 2020 22:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.0	25.4
125	11.0	7.8	11.6





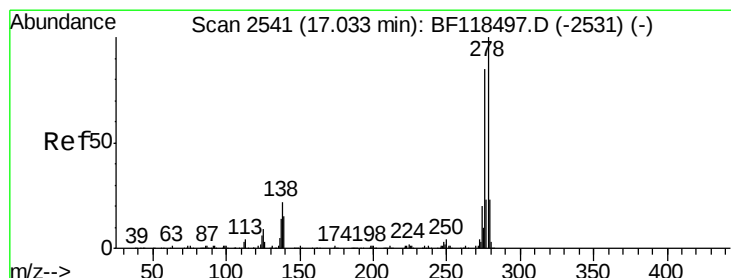
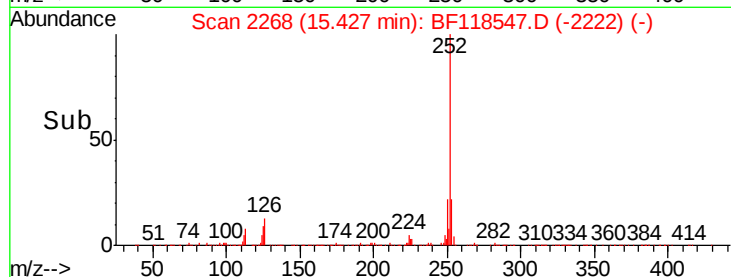
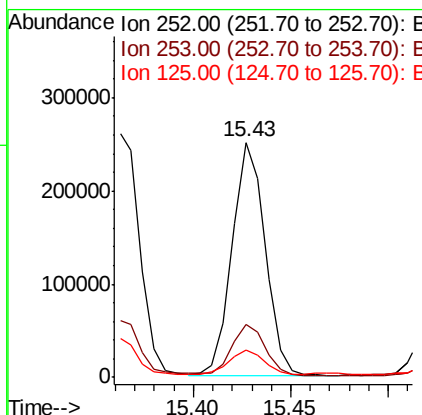
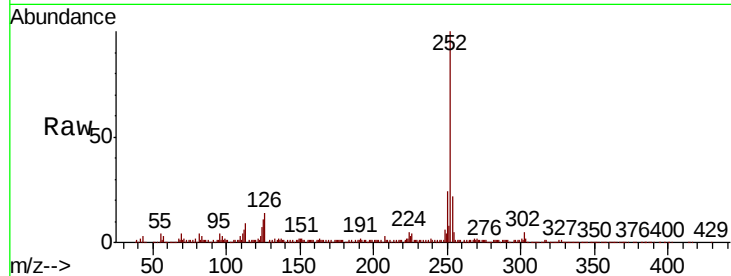
#90
Benzo(a)pyrene
Concen: 18.230 ng
RT: 15.43 min Scan# 2268
Delta R.T. -0.03 min
Lab File: BF118547.D
Acq: 13 Jan 2020 22:58

Instrument :
BNA_F
ClientSampleId :
DUP-01-01092020

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.7	26.5
125	11.4	9.0	13.6

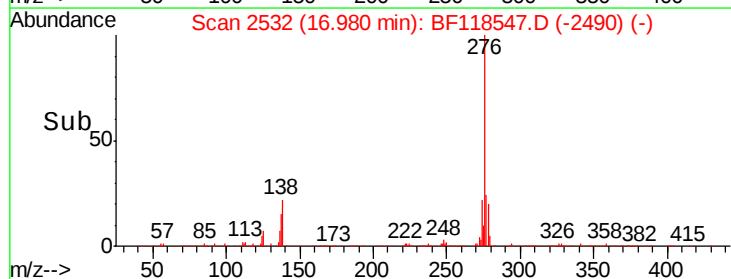
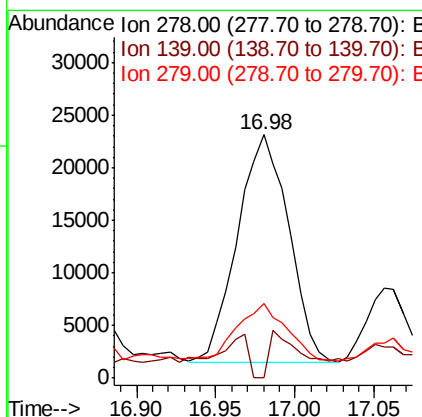
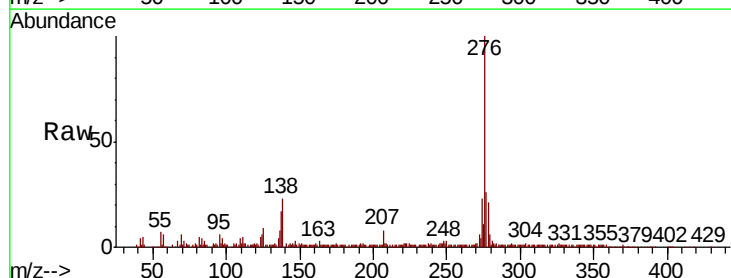
Manual Integrations
APPROVED

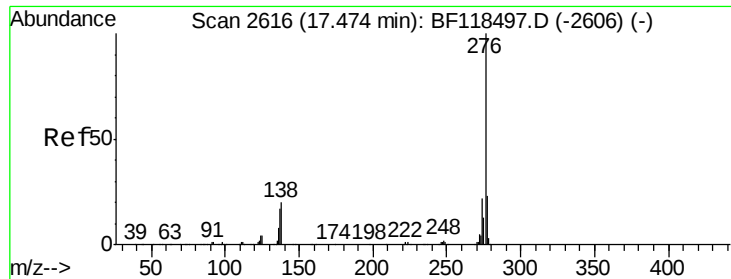
mohammad
1/14/2020 2:32:00 PM



#91
Dibenzo(a,h)anthracene
Concen: 3.213 ng
RT: 16.98 min Scan# 2532
Delta R.T. -0.05 min
Lab File: BF118547.D
Acq: 13 Jan 2020 22:58

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	11.9	17.9#
279	30.6	18.6	27.8#





#92
 Benzo(a,h,i)perylene
 Concen: 17.437 ng
 RT: 17.44 min Scan# 2610
 Delta R.T. -0.04 min
 Lab File: BF118547.D
 Acq: 13 Jan 2020 22:58

Instrument :
 BNA_F
 ClientSampleId :
 DUP-01-01092020

Tot Ion:	276	Resp:	249270
Ion Ratio	Lower	Upper	
276	100		
277	23.3	18.2	27.4
138	21.5	16.3	24.5

Manual Integrations
 APPROVED

mohammad
 1/14/2020 2:32:00 PM

