

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010220\
 Data File : BF118438.D
 Acq On : 2 Jan 2020 16:30
 Operator : JU
 Sample : K6462-04
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 K500-4

Manual Integrations
 APPROVED

mohammad
 1/3/2020 11:04:09 AM

Quant Time: Jan 09 11:24:27 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 24 15:58:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	117787	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	316600	20.00	ng	0.01
39) Acenaphthene-d10	9.93	164	236773	20.00	ng	0.03
64) Phenanthrene-d10	11.42	188	346267	20.00	ng	0.03
76) Chrysene-d12	14.05	240	292455	20.00	ng	0.00
87) Perylene-d12	15.53	264	330708	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	731012	105.94	ng	0.00
7) Phenol-d6	6.49	99	920815	107.57	ng	0.00
23) Nitrobenzene-d5	7.42	82	548198	99.03	ng	0.00
42) 2,4,6-Tribromophenol	10.72	330	257454	88.05	ng	0.03
45) 2-Fluorobiphenyl	9.23	172	990075	63.83	ng	0.01
79) Terphenyl-d14	13.00	244	1056645	59.94	ng	0.01
Target Compounds						
37) 2-Methylnaphthalene	8.87	142	764024	69.347	ng	98
38) 1-Methylnaphthalene	8.97	142	565945	54.523	ng	# 97
46) 1,1'-Biphenyl	9.33	154	150636	8.044	ng	96
71) Phenanthrene	11.45	178	238983	12.660	ng	# 88
75) Fluoranthene	12.63	202	81209	4.263	ng	83
78) Pyrene	12.86	202	133772	5.601	ng	# 96
81) Benzo(a)anthracene	14.04	228	84523	4.129	ng	97
83) Chrysene	14.07	228	81732	4.170	ng	97
86) Indeno(1,2,3-cd)pyrene	17.04	276	123294	7.382	ng	96
88) Benzo(b)fluoranthene	15.10	252	185265m	8.439	ng	
89) Benzo(k)fluoranthene	15.12	252	64140m	3.043	ng	
90) Benzo(a)pyrene	15.47	252	172627	8.927	ng	97
91) Dibenzo(a,h)anthracene	17.04	278	36679m	2.186	ng	
92) Benzo(g,h,i)perylene	17.49	276	119252	7.356	ng	96

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

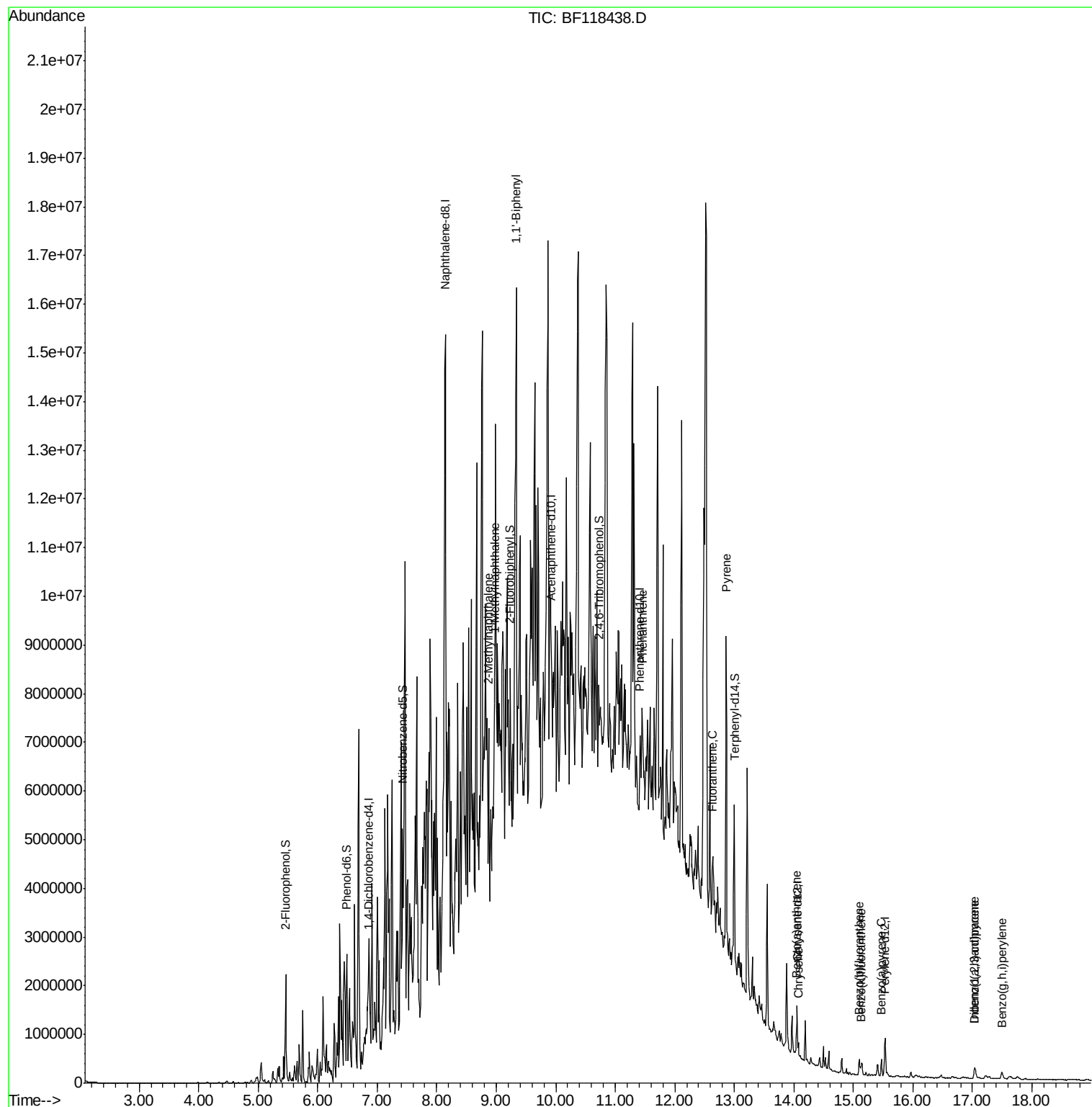
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010220\
Data File : BF118438.D
Acq On : 2 Jan 2020 16:30
Operator : JU
Sample : K6462-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

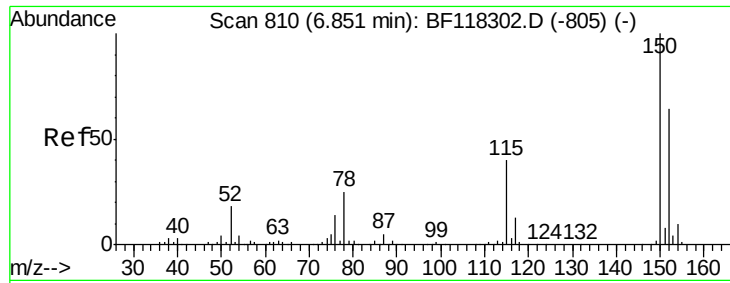
Instrument :
BNA_F
ClientSampleId :
K500-4

Quant Time: Jan 09 11:24:27 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 24 15:58:52 2019
Response via : Initial Calibration

Manual Integrations
APPROVED

mohammad
1/3/2020 11:04:09 AM





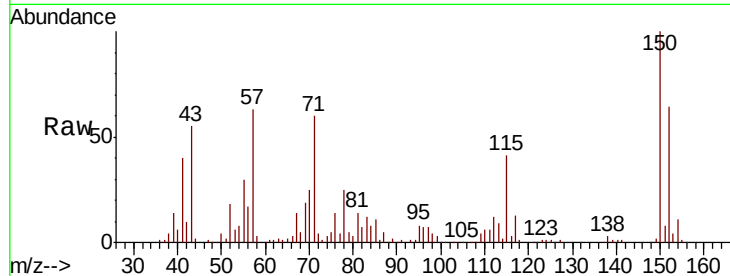
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.85 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: BF118438.D
 Acq: 2 Jan 2020 16:30

Instrument :
 BNA_F
 ClientSampled :
 K500-4

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.4	125.4	188.2
115	63.8	50.2	75.4

Manual Integrations
 APPROVED

mohammad
 1/3/2020 11:04:09 AM

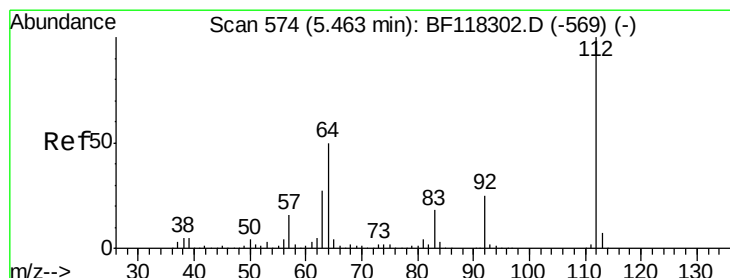
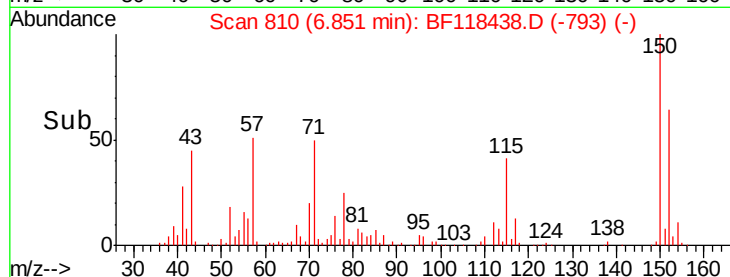
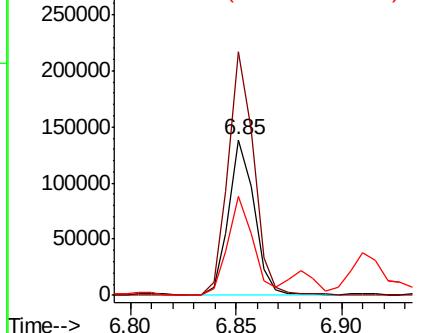


Abundance

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: 105.939 ng
 RT: 5.47 min Scan# 575
 Delta R.T. 0.01 min
 Lab File: BF118438.D
 Acq: 2 Jan 2020 16:30

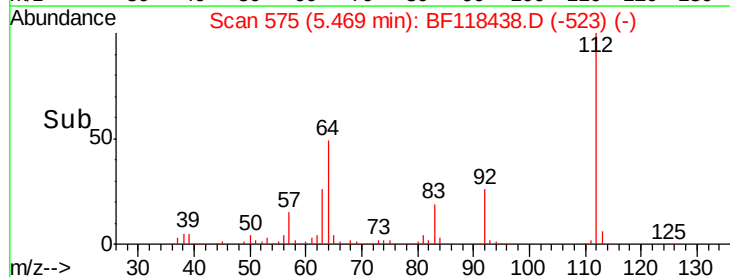
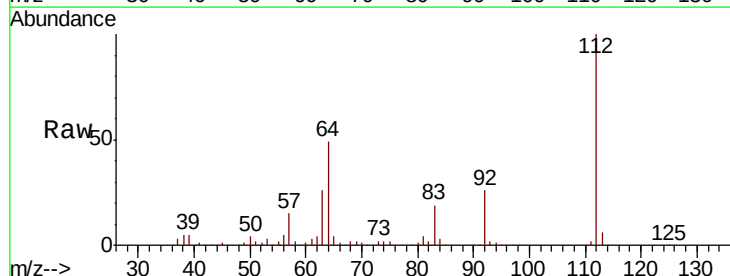
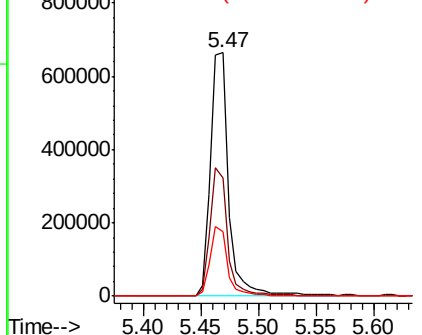
Tgt Ion	Ratio	Lower	Upper
112	100		
64	48.7	39.7	59.5
63	26.4	21.7	32.5

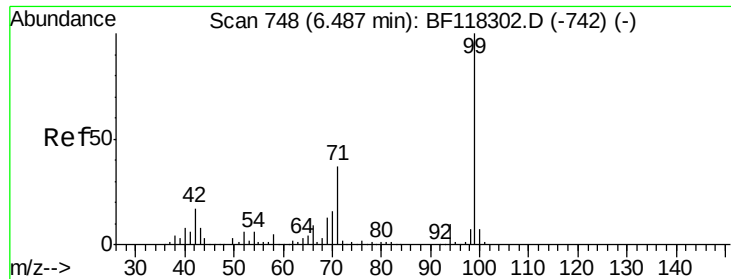
Abundance

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: 107.572 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.00 min

Lab File: BF118438.D

Acq: 2 Jan 2020 16:30

Instrument :

BNA_F

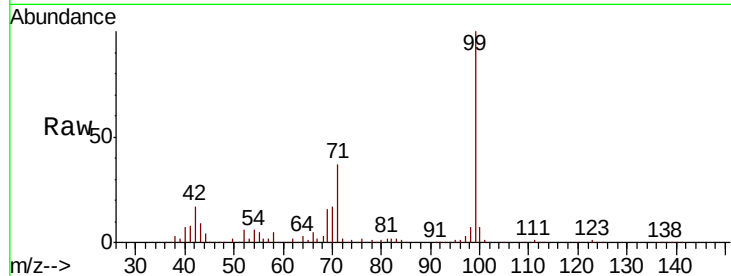
ClientSampled :

K500-4

Tot Ion:	99	Resp:	920815
Ion Ratio	Lower	Upper	
99	100		
42	17.1	13.5	20.3
71	37.0	29.4	44.2

Manual Integrations
APPROVED

mohammad
1/3/2020 11:04:09 AM

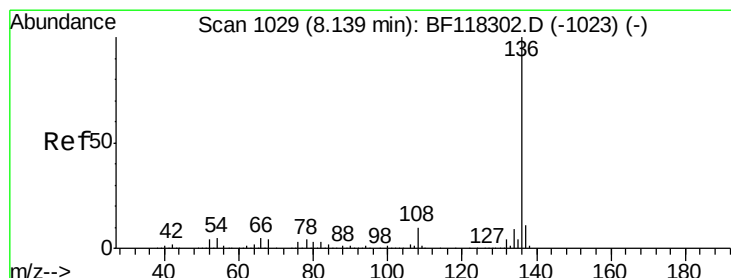
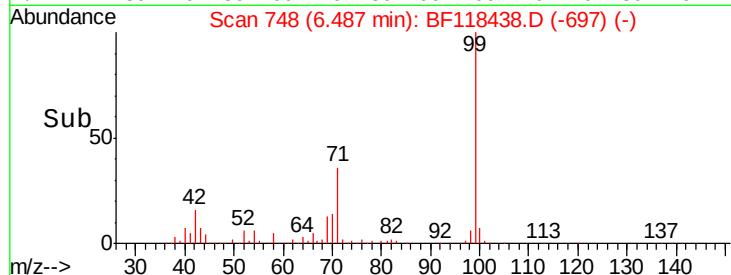
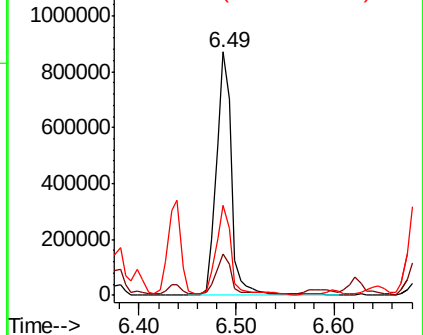


Abundance

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: 8.15 min Scan# 1031

Delta R.T. 0.01 min

Lab File: BF118438.D

Acq: 2 Jan 2020 16:30

Tgt Ion:	136	Resp:	316600
Ion Ratio	Lower	Upper	
136	100		
137	14.4	8.9	13.3#
54	20.5	4.2	6.4#
68	19.2	3.5	5.3#

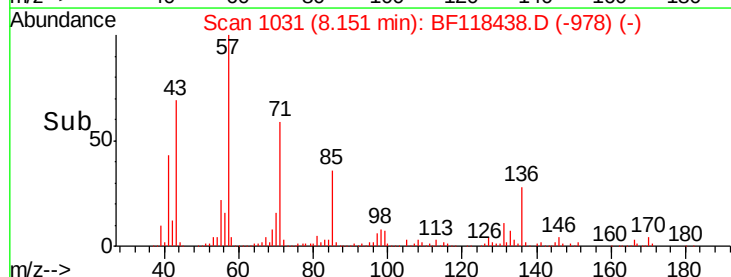
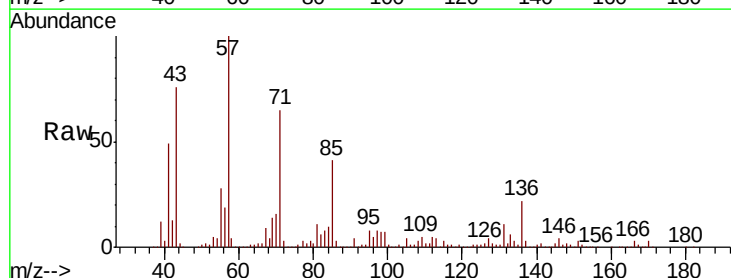
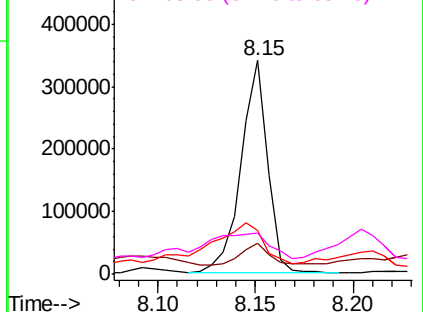
Abundance

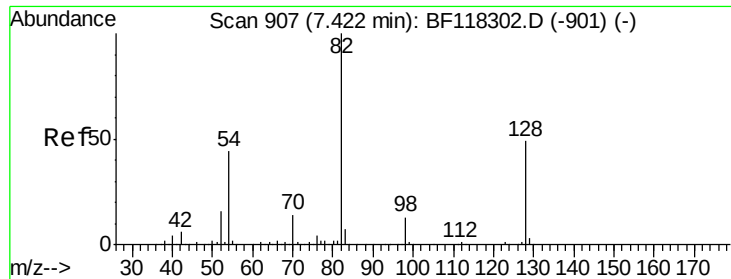
Ion 136.00 (135.70 to 136.70): E

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





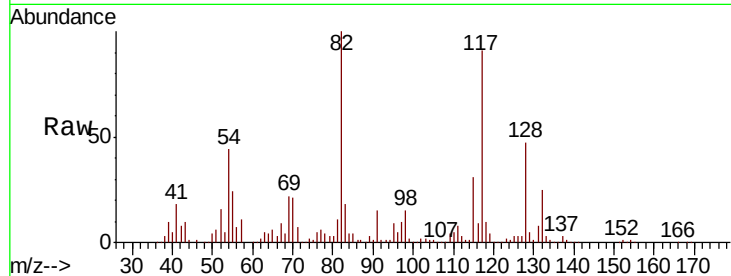
#23
Nitrobenzene-d5
Concen: 99.034 ng
RT: 7.42 min Scan# 907
Delta R.T. -0.00 min
Lab File: BF118438.D
Acq: 2 Jan 2020 16:30

Instrument :
BNA_F
ClientSampled :
K500-4

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.1	39.6	59.4
54	44.1	34.9	52.3

Manual Integrations
APPROVED

mohammad
1/3/2020 11:04:09 AM

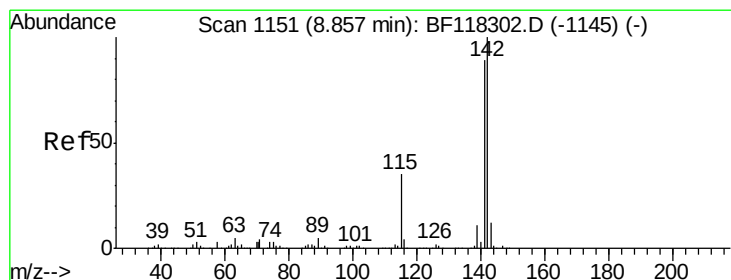
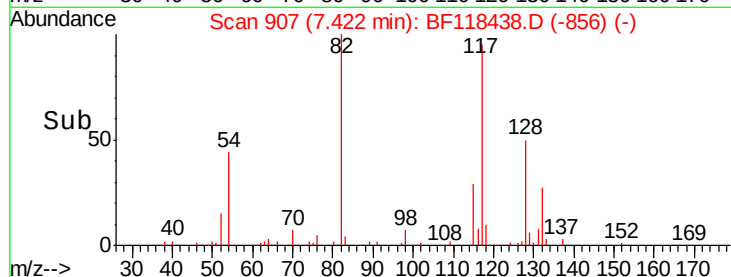
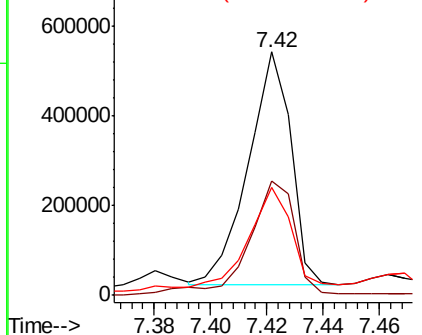


Abundance

Ion 82.00 (81.70 to 82.70): BF1

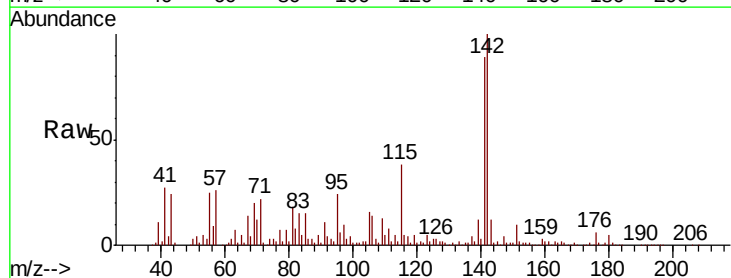
Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#37
2-Methylnaphthalene
Concen: 69.347 ng
RT: 8.87 min Scan# 1154
Delta R.T. 0.02 min
Lab File: BF118438.D
Acq: 2 Jan 2020 16:30

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.2	106.8
115	37.9	28.0	42.0

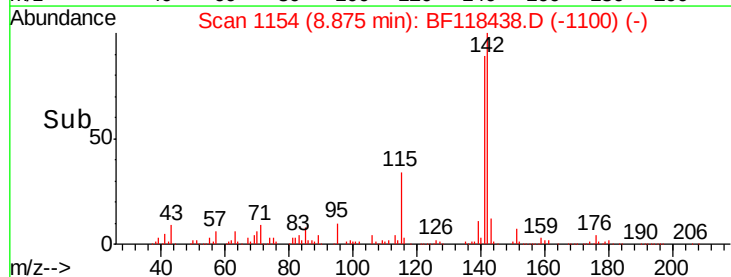
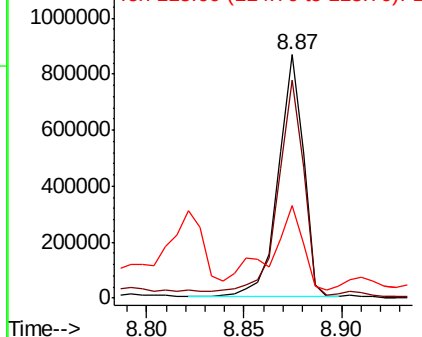


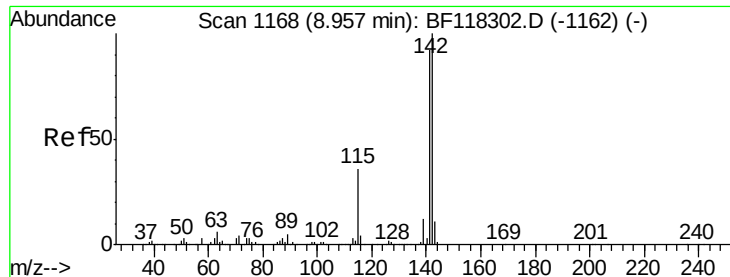
Abundance

Ion 142.00 (141.70 to 142.70): BF1

Ion 141.00 (140.70 to 141.70): BF1

Ion 115.00 (114.70 to 115.70): BF1





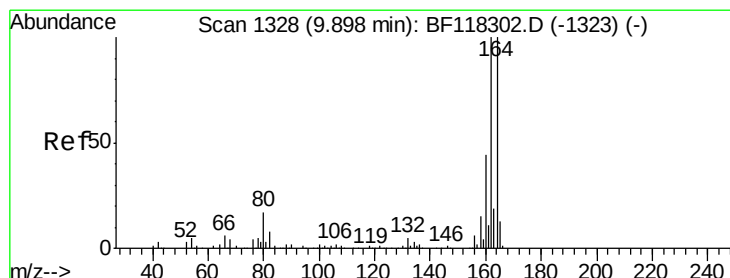
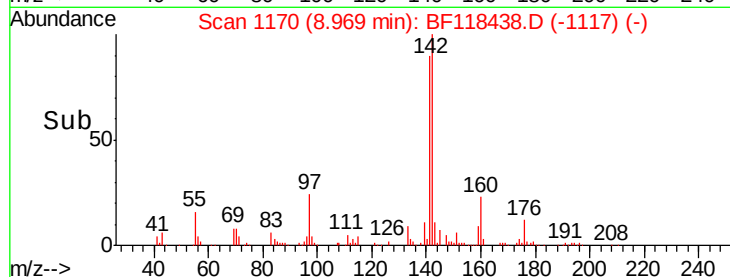
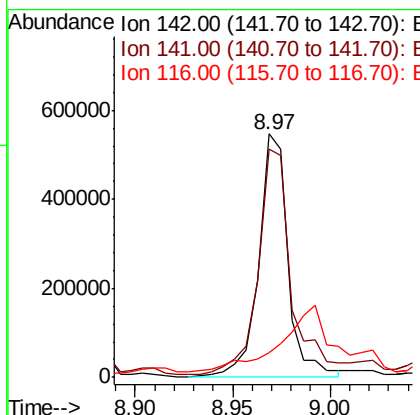
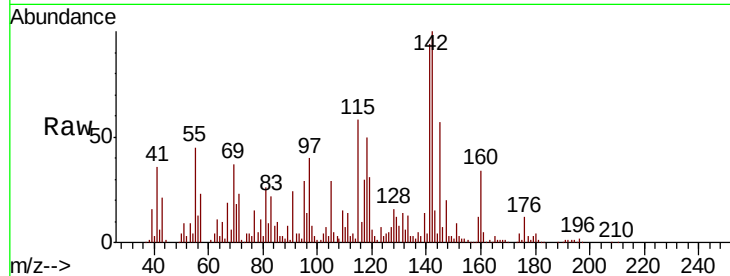
#38
1-Methylnaphthalene
Concen: 54.523 ng
RT: 8.97 min Scan# 1170
Delta R.T. 0.01 min
Lab File: BF118438.D
Acq: 2 Jan 2020 16:30

Instrument :
BNA_F
ClientSampleId :
K500-4

Tot Ion	Ratio	Resp	Lower	Upper
142	100	565945		
141	93.5	73.4	110.2	
116	10.4	2.9	4.3#	

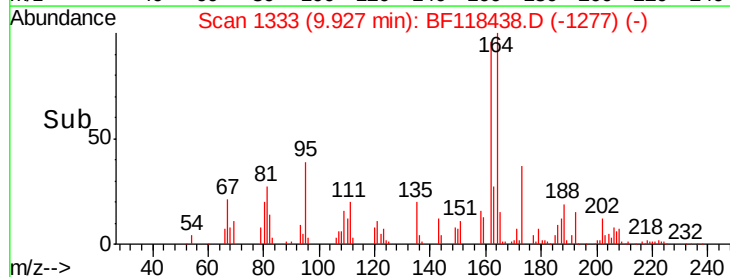
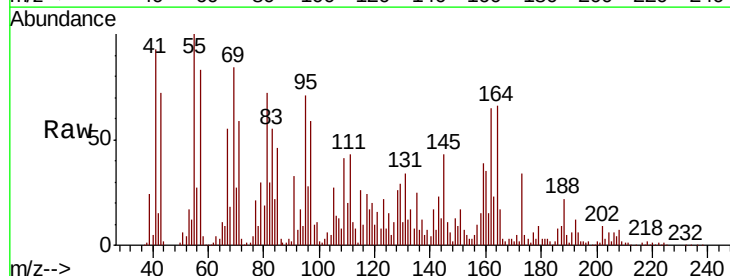
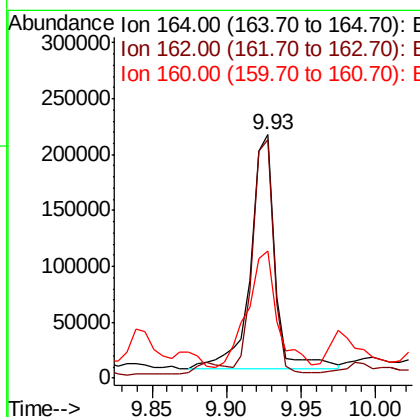
Manual Integrations
APPROVED

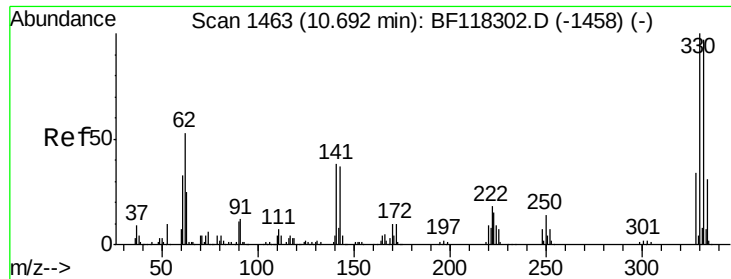
mohammad
1/3/2020 11:04:09 AM



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.93 min Scan# 1333
Delta R.T. 0.03 min
Lab File: BF118438.D
Acq: 2 Jan 2020 16:30

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	236773		
162	98.1	80.0	120.0	
160	52.4	34.8	52.2#	





#42

2,4,6-Tribromophenol

Concen: 88.049 ng

RT: 10.72 min Scan# 1468

Delta R.T. 0.03 min

Lab File: BF118438.D

Acq: 2 Jan 2020 16:30

Instrument :

BNA_F

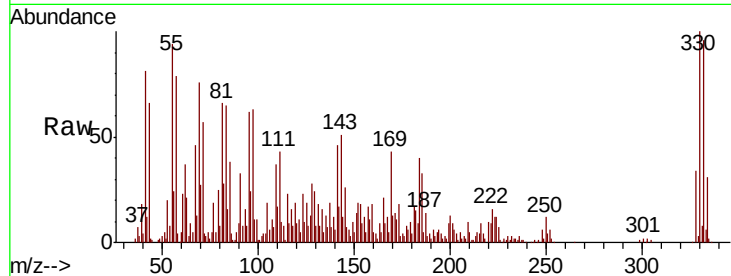
ClientSampled :

K500-4

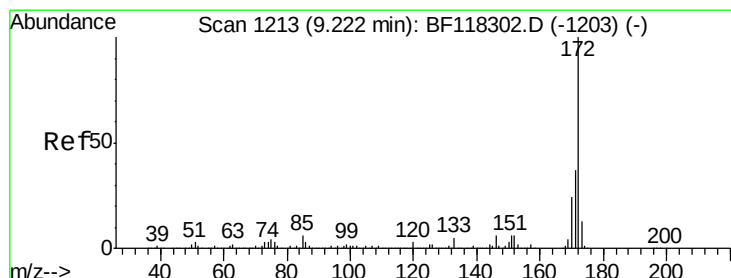
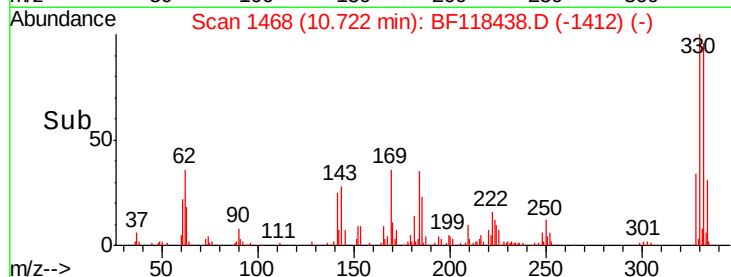
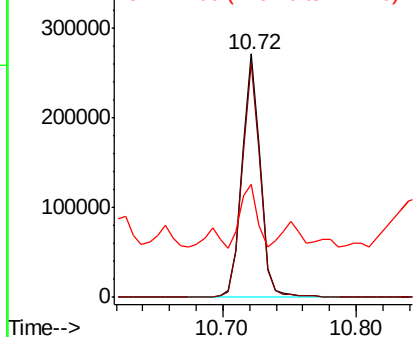
Tot Ion:	330	Resp:	257454
Ion Ratio	Lower	Upper	
330	100		
332	96.9	76.6	114.8
141	24.9	26.0	39.0#

Manual Integrations
APPROVED

mohammad
1/3/2020 11:04:09 AM



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: 63.830 ng

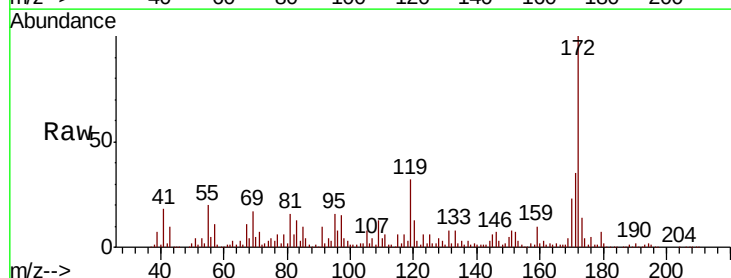
RT: 9.23 min Scan# 1215

Delta R.T. 0.01 min

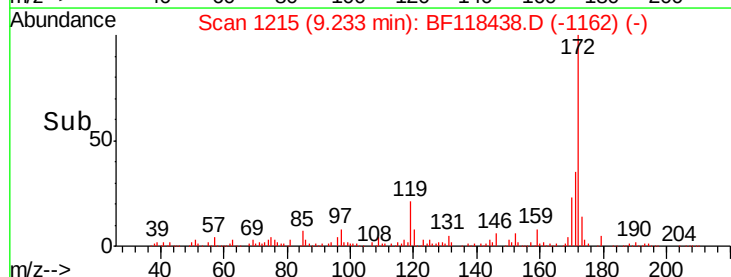
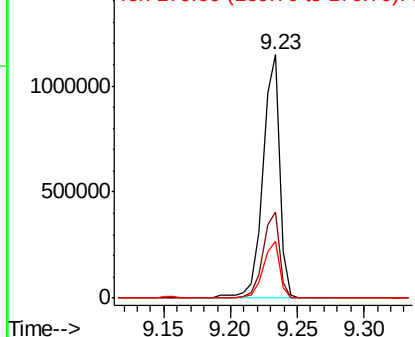
Lab File: BF118438.D

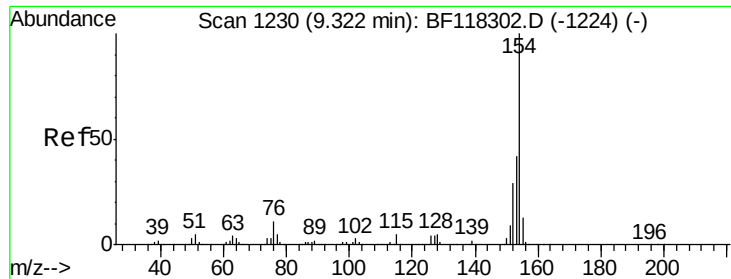
Acq: 2 Jan 2020 16:30

Tgt Ion:	172	Resp:	990075
Ion Ratio	Lower	Upper	
172	100		
171	35.3	29.3	43.9
170	23.4	19.2	28.8



Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





#46

1,1'-Biphenyl

Concen: 8.044 ng

RT: 9.33 min Scan# 1232

Delta R.T. 0.01 min

Lab File: BF118438.D

Acq: 2 Jan 2020 16:30

Instrument :

BNA_F

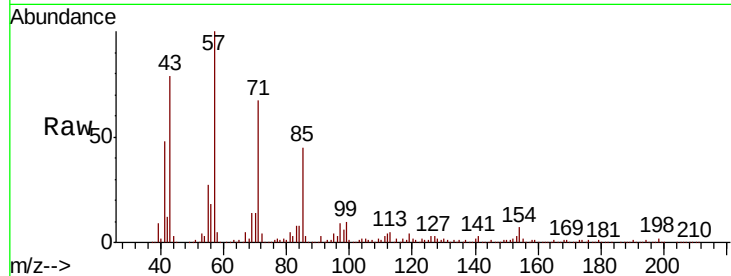
ClientSampleId :

K500-4

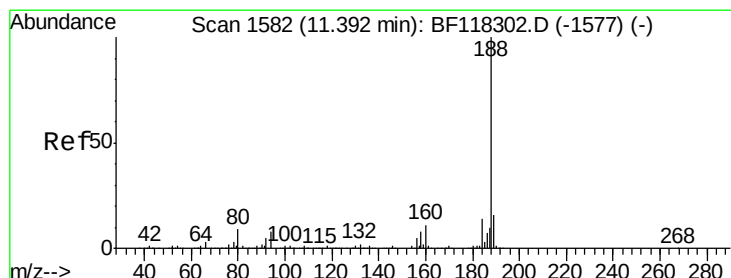
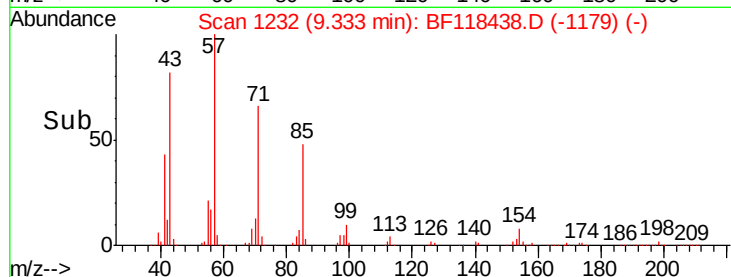
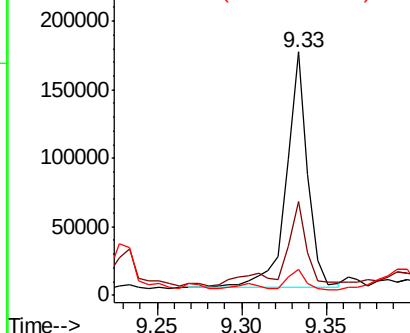
Tot Ion:	154	Resp:	150636
Ion Ratio	Lower	Upper	
154	100		
153	38.8	21.8	61.8
76	10.9	0.0	30.9

Manual Integrations
APPROVED

mohammad
1/3/2020 11:04:09 AM



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF1



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.42 min Scan# 1587

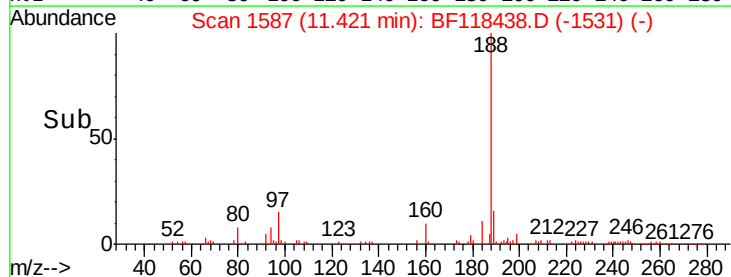
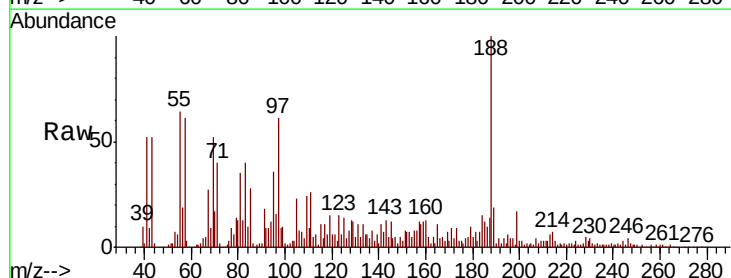
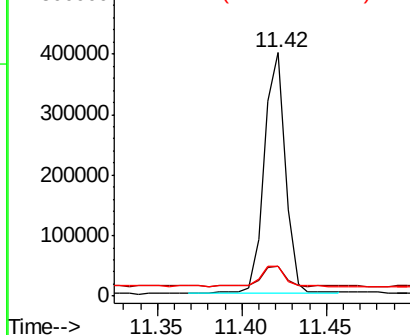
Delta R.T. 0.03 min

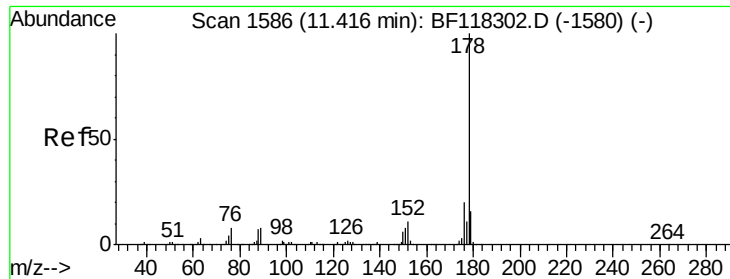
Lab File: BF118438.D

Acq: 2 Jan 2020 16:30

Tgt Ion:	188	Resp:	346267
Ion Ratio	Lower	Upper	
188	100		
94	12.2	6.7	10.1#
80	12.5	7.2	10.8#

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





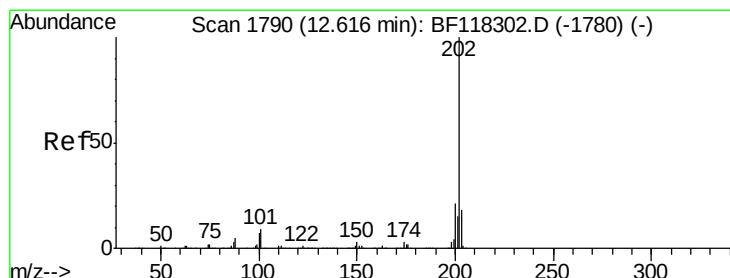
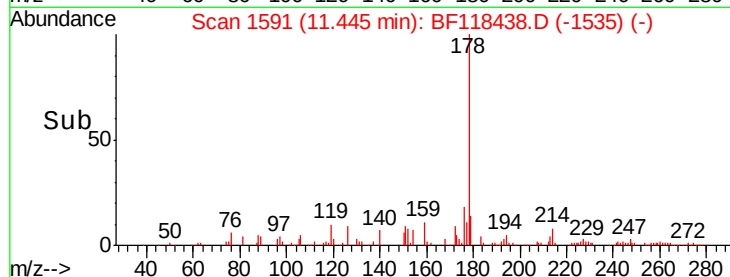
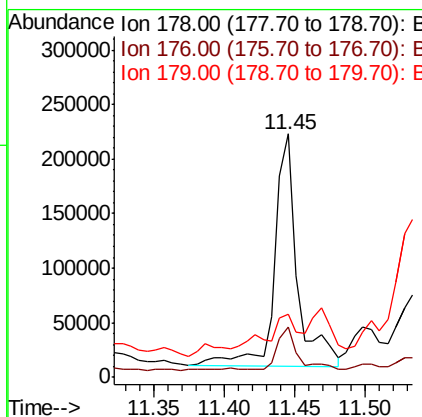
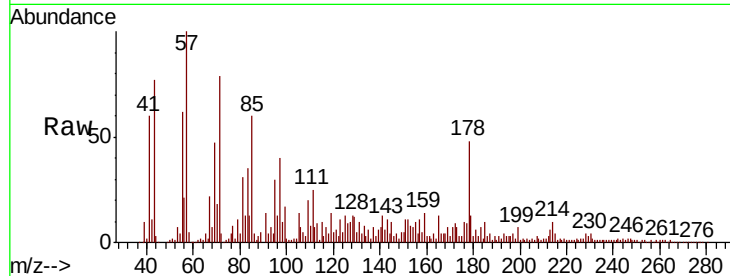
#71
Phenanthrene
Concen: 12.660 ng
RT: 11.45 min Scan# 1591
Delta R.T. 0.03 min
Lab File: BF118438.D
Acq: 2 Jan 2020 16:30

Instrument :
BNA_F
ClientSampled :
K500-4

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.9	15.6	23.4
179	25.8	12.6	19.0

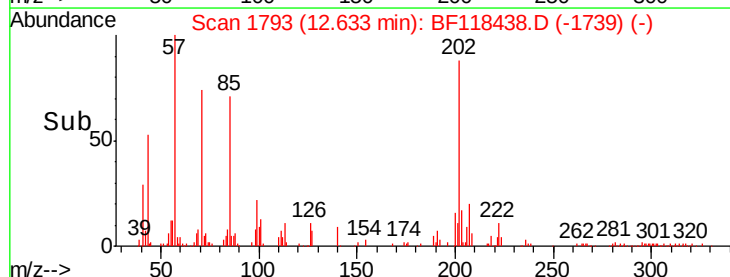
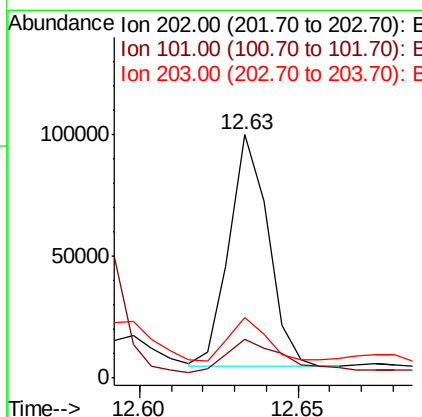
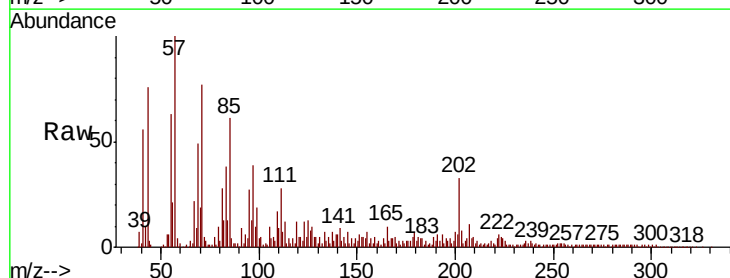
Manual Integrations
APPROVED

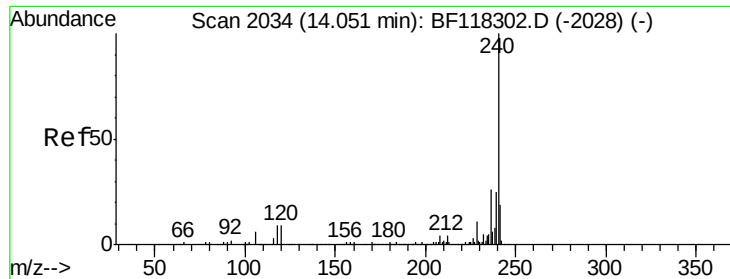
mohammad
1/3/2020 11:04:09 AM



#75
Fluoranthene
Concen: 4.263 ng
RT: 12.63 min Scan# 1793
Delta R.T. 0.02 min
Lab File: BF118438.D
Acq: 2 Jan 2020 16:30

Tgt Ion	Ratio	Lower	Upper
202	100		
101	16.1	0.0	29.5
203	25.1	0.0	37.6





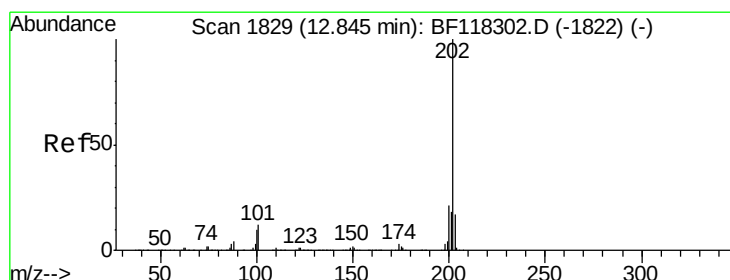
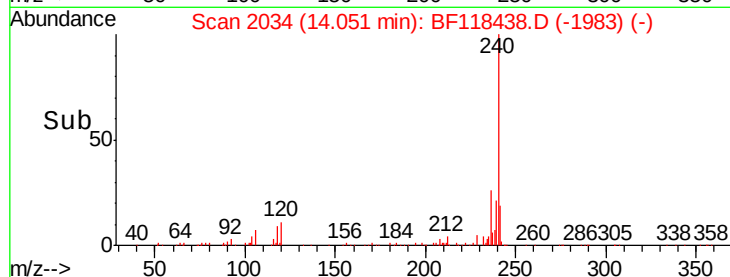
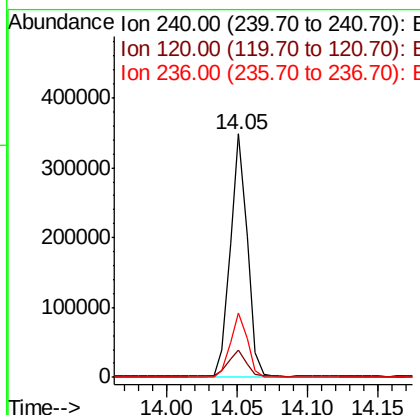
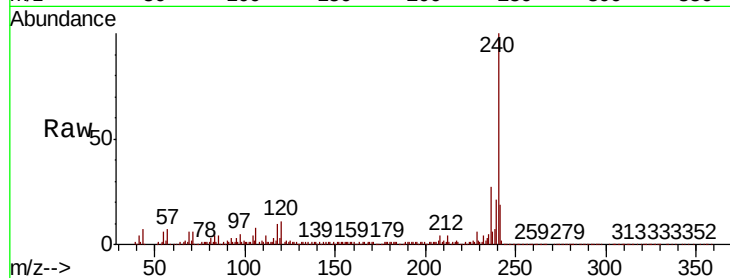
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.05 min Scan# 2034
Delta R.T. -0.00 min
Lab File: BF118438.D
Acq: 2 Jan 2020 16:30

Instrument :
BNA_F
ClientSampleId :
K500-4

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.3	7.1	10.7#
236	26.6	21.0	31.6

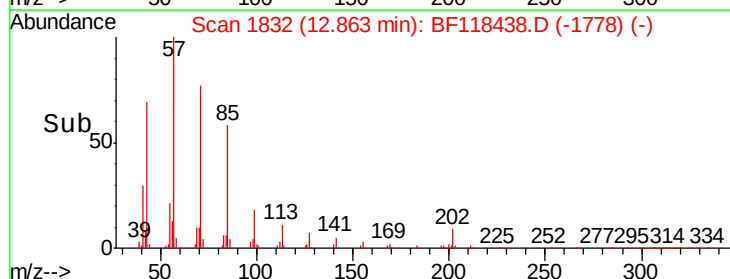
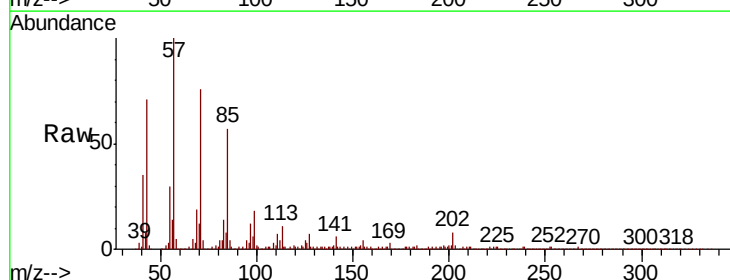
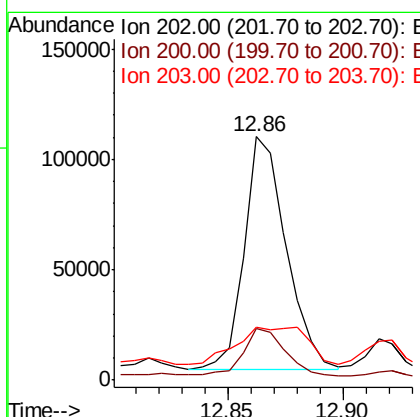
Manual Integrations
APPROVED

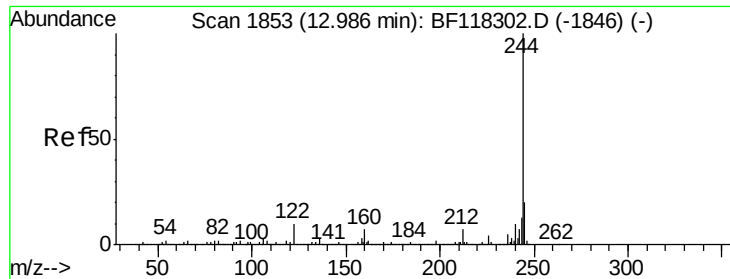
mohammad
1/3/2020 11:04:09 AM



#78
Pyrene
Concen: 5.601 ng
RT: 12.86 min Scan# 1832
Delta R.T. 0.02 min
Lab File: BF118438.D
Acq: 2 Jan 2020 16:30

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	21.6	13.9	20.9#





#79

Terphenyl-d14

Concen: 59.941 ng

RT: 13.00 min Scan# 1855

Delta R.T. 0.01 min

Lab File: BF118438.D

Acq: 2 Jan 2020 16:30

Instrument :

BNA_F

ClientSampled :

K500-4

Tot Ion:244 Resp: 1056645

Ion Ratio Lower Upper

244 100

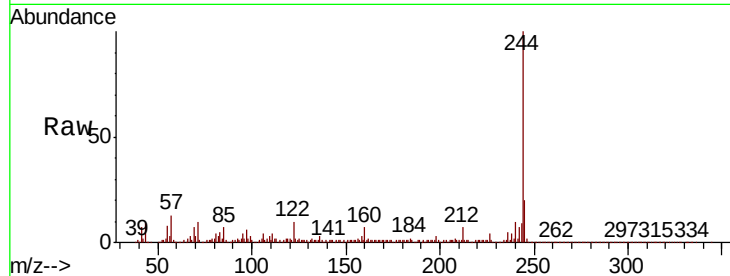
212 6.9 5.4 8.2

122 10.3 7.8 11.8

Manual Integrations
APPROVED

mohammad

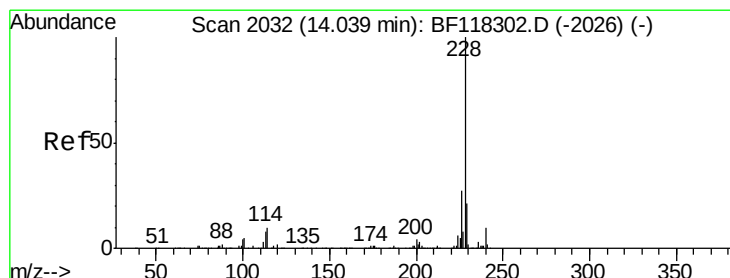
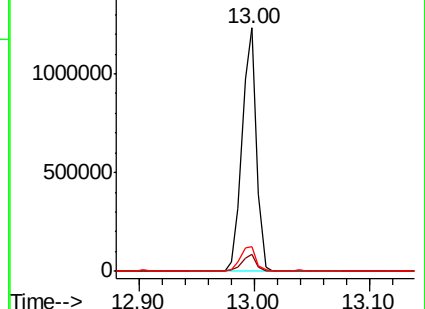
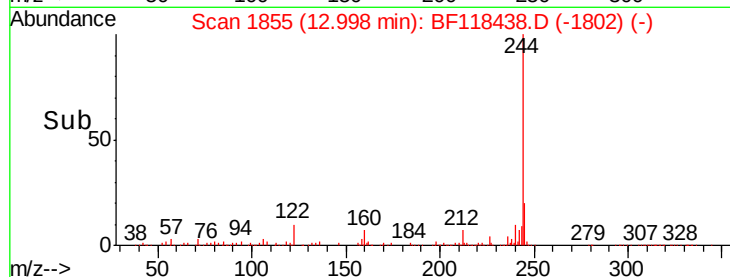
1/3/2020 11:04:09 AM



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 4.129 ng

RT: 14.04 min Scan# 2032

Delta R.T. -0.00 min

Lab File: BF118438.D

Acq: 2 Jan 2020 16:30

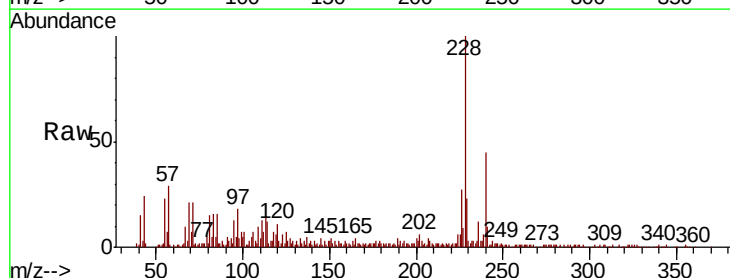
Tgt Ion:228 Resp: 84523

Ion Ratio Lower Upper

228 100

226 26.7 22.0 33.0

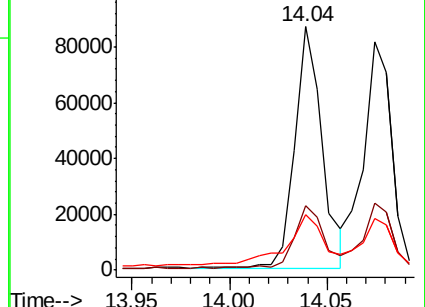
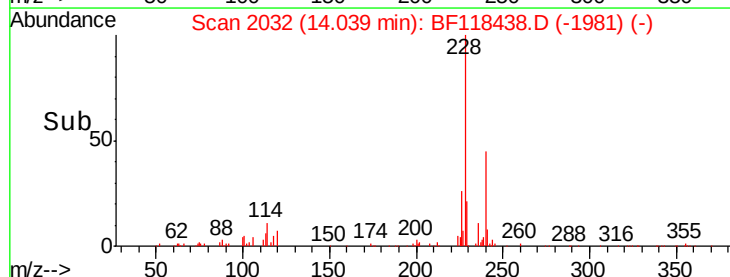
229 22.6 16.6 24.8

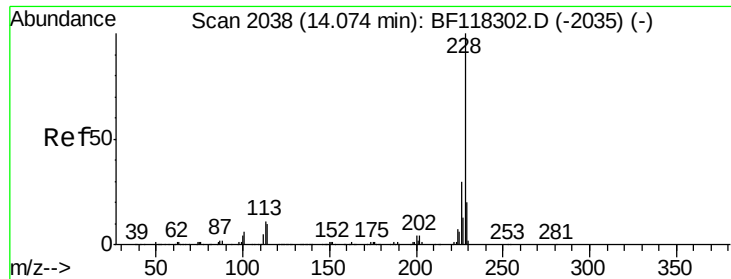


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





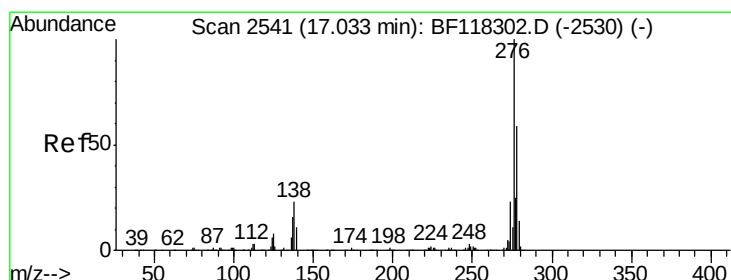
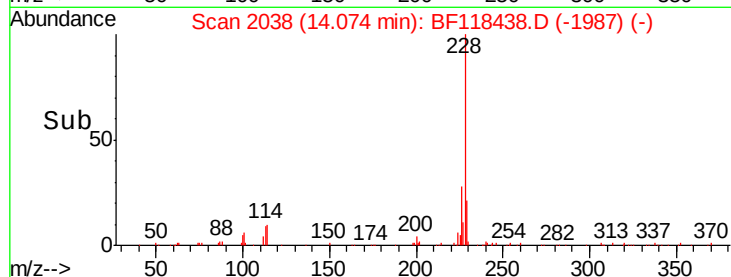
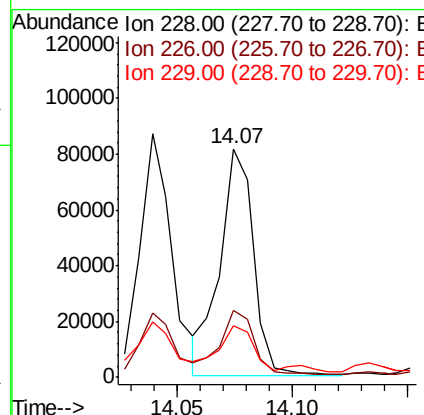
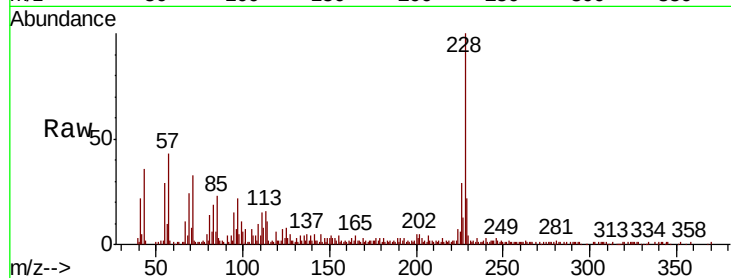
#83
Chrysene
Concen: 4.170 ng
RT: 14.07 min Scan# 2038
Delta R.T. -0.00 min
Lab File: BF118438.D
Acq: 2 Jan 2020 16:30

Instrument :
BNA_F
ClientSampled :
K500-4

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.2	23.9	35.9
229	22.3	16.1	24.1

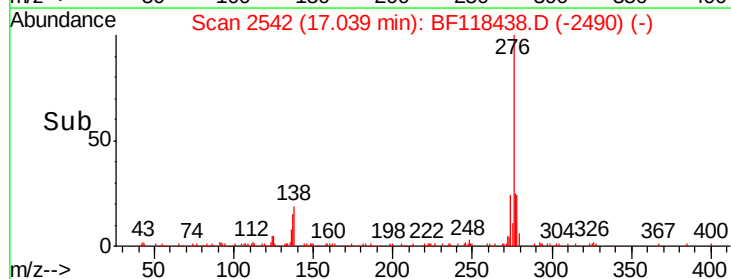
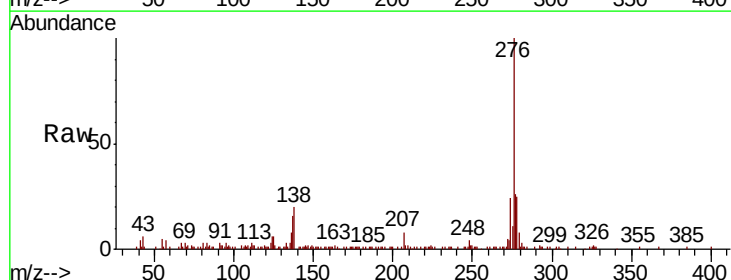
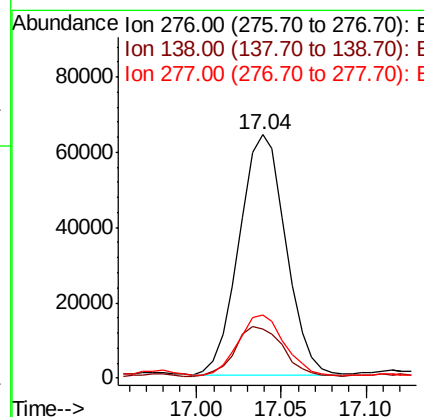
Manual Integrations
APPROVED

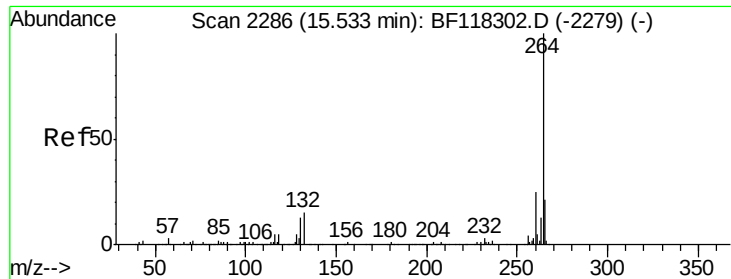
mohammad
1/3/2020 11:04:09 AM



#86
Indeno(1,2,3-cd)pyrene
Concen: 7.382 ng
RT: 17.04 min Scan# 2542
Delta R.T. 0.01 min
Lab File: BF118438.D
Acq: 2 Jan 2020 16:30

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.8	19.5	29.3
277	25.1	20.6	30.8





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.53 min Scan# 2286

Delta R.T. -0.00 min

Lab File: BF118438.D

Acq: 2 Jan 2020 16:30

Instrument :

BNA_F

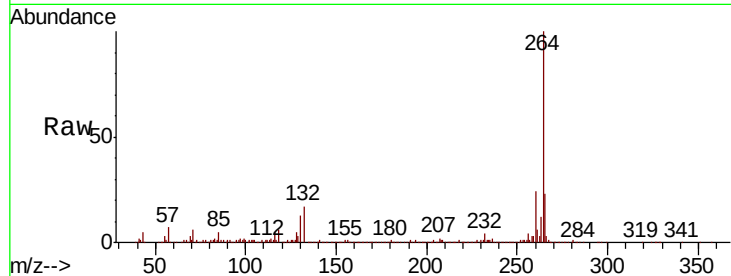
ClientSampleId :

K500-4

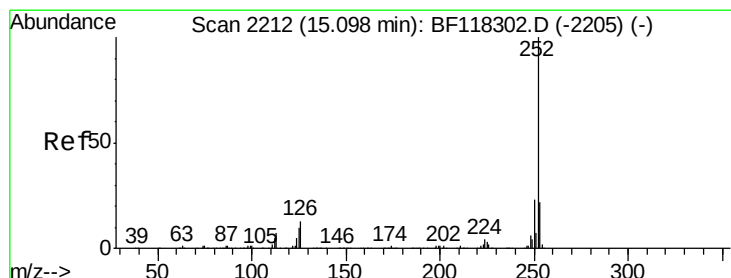
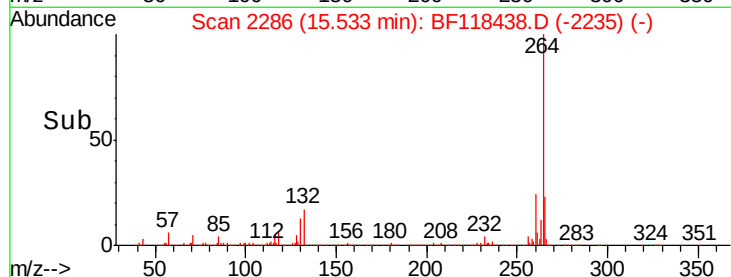
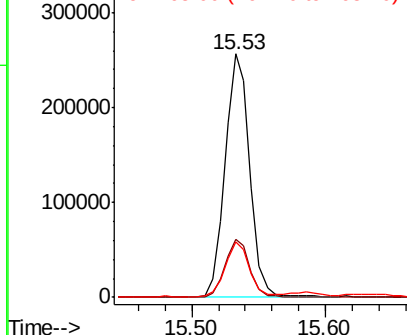
Tot Ion:	264	Resp:	330708
Ion Ratio	Lower	Upper	
264	100		
260	23.6	19.8	29.6
265	22.9	17.0	25.4

Manual Integrations
APPROVED

mohammad
1/3/2020 11:04:09 AM



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



#88

Benzo(b)fluoranthene

Concen: 8.439 ng m

RT: 15.10 min Scan# 2212

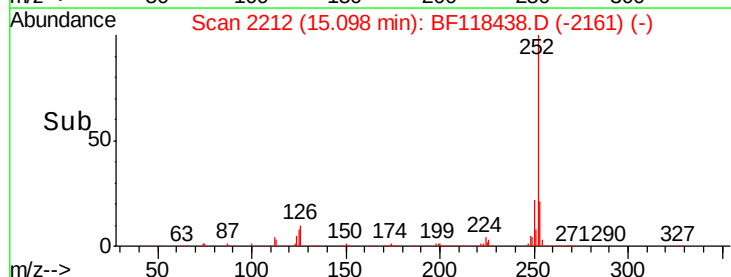
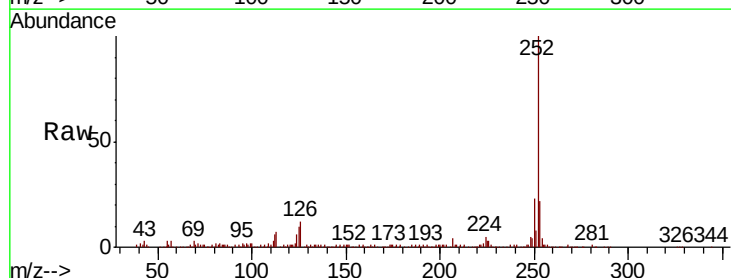
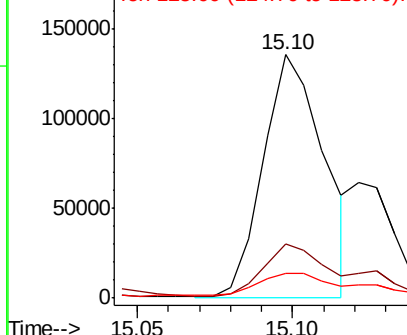
Delta R.T. -0.00 min

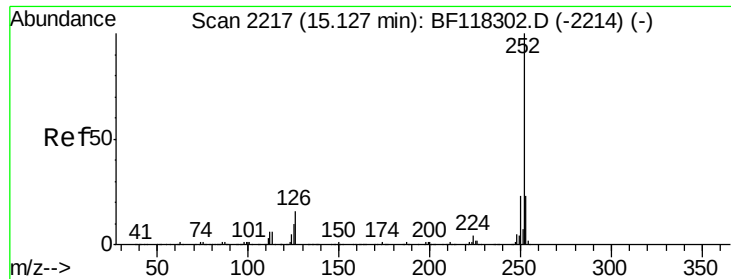
Lab File: BF118438.D

Acq: 2 Jan 2020 16:30

Tgt Ion:	252	Resp:	185265
Ion Ratio	Lower	Upper	
252	100		
253	22.0	17.5	26.3
125	10.3	7.7	11.5

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





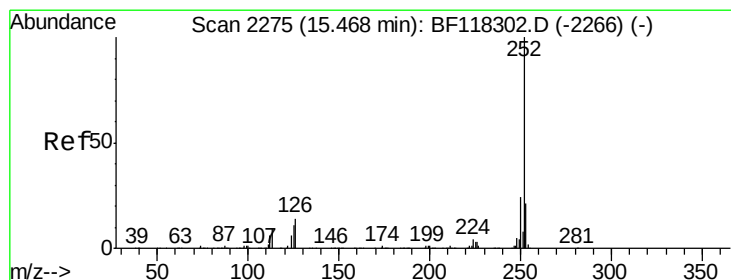
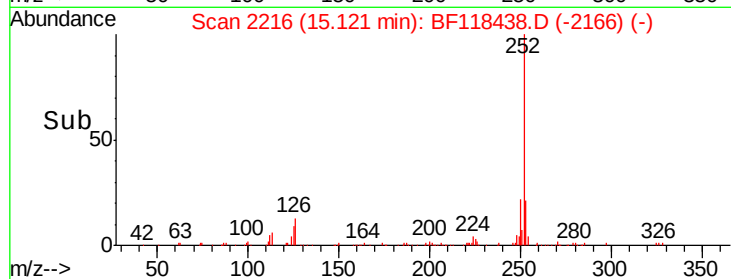
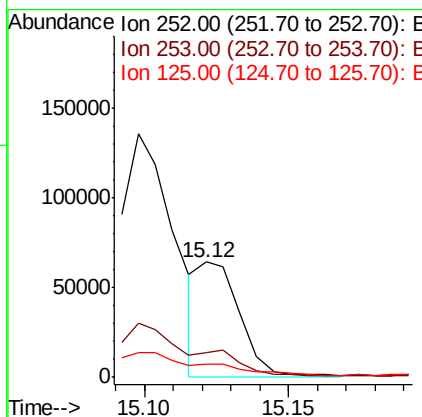
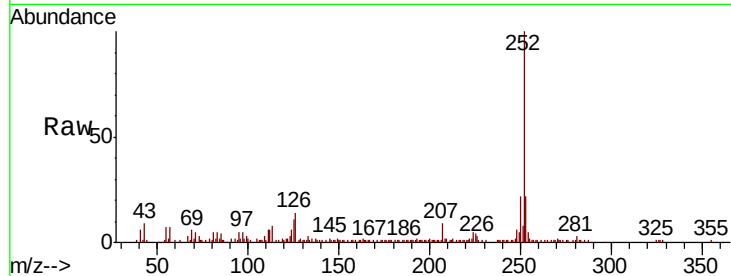
#89
Benzo(k)fluoranthene
Concen: 3.043 ng m
RT: 15.12 min Scan# 2216
Delta R.T. -0.01 min
Lab File: BF118438.D
Acq: 2 Jan 2020 16:30

Instrument :
BNA_F
ClientSampled :
K500-4

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.0	27.0
125	11.0	8.0	12.0

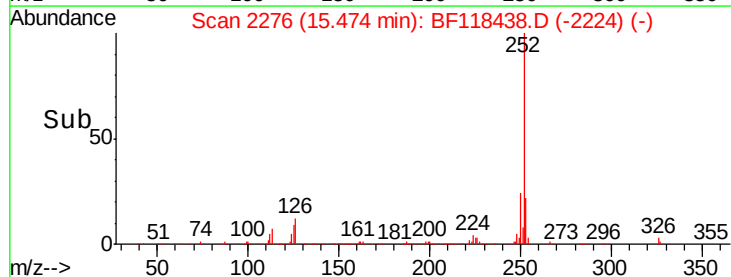
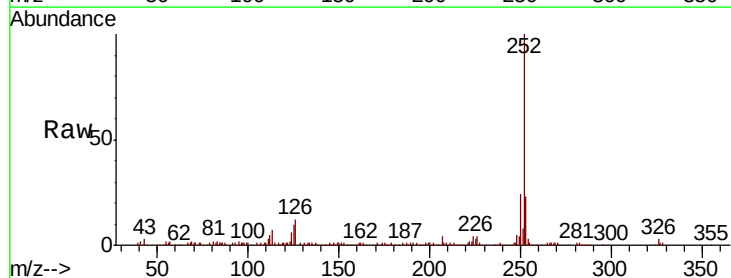
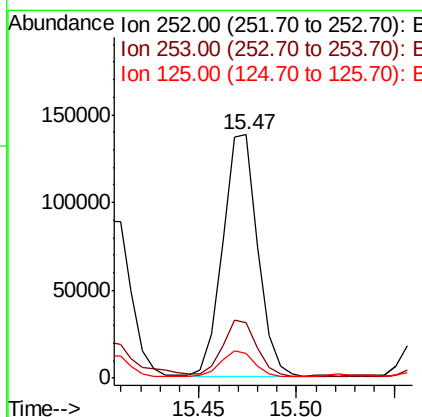
Manual Integrations
APPROVED

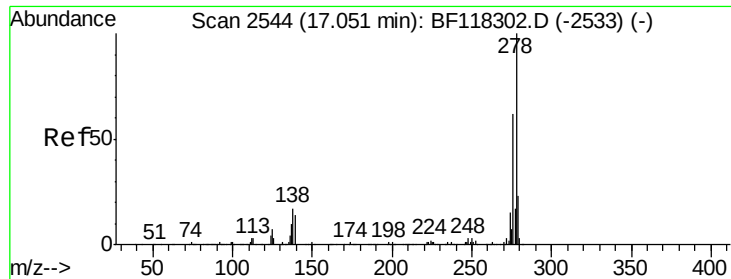
mohammad
1/3/2020 11:04:09 AM



#90
Benzo(a)pyrene
Concen: 8.927 ng
RT: 15.47 min Scan# 2276
Delta R.T. 0.01 min
Lab File: BF118438.D
Acq: 2 Jan 2020 16:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.6
125	10.3	9.0	13.4





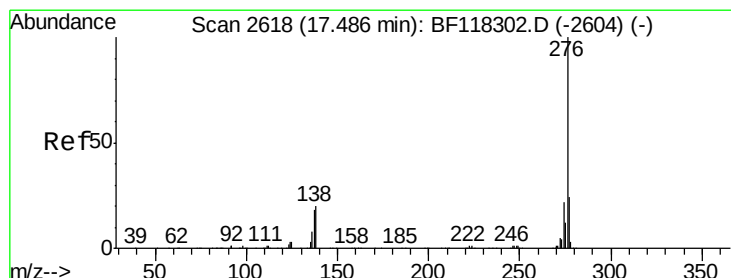
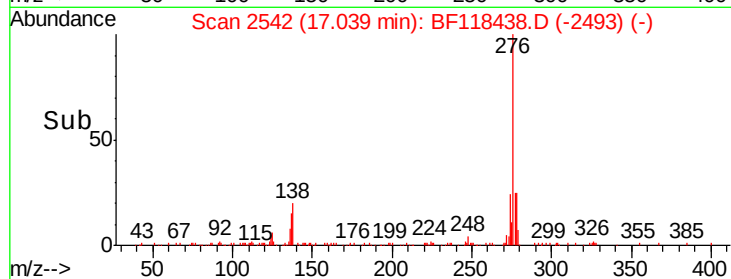
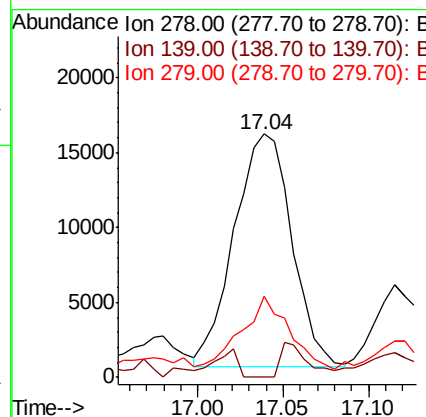
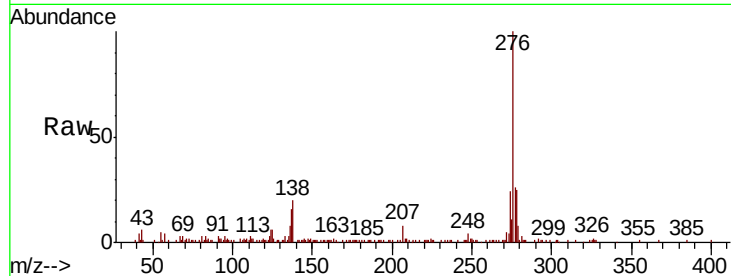
#91
Dibenzo(a,h)anthracene
Concen: 2.186 ng m
RT: 17.04 min Scan# 2542
Delta R.T. -0.01 min
Lab File: BF118438.D
Acq: 2 Jan 2020 16:30

Instrument :
BNA_F
ClientSampleId :
K500-4

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	11.5	17.3#
279	33.2	18.3	27.5#

Manual Integrations
APPROVED

mohammad
1/3/2020 11:04:09 AM



#92
Benzo(g,h,i)perylene
Concen: 7.356 ng
RT: 17.49 min Scan# 2619
Delta R.T. 0.01 min
Lab File: BF118438.D
Acq: 2 Jan 2020 16:30

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.6	19.1	28.7
138	22.1	16.1	24.1

