

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
 Data File : BF117633.D
 Acq On : 30 Oct 2019 19:06
 Operator : JU
 Sample : K5140-05RE 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-102519RE

Manual Integrations
 APPROVED

mohammad
 10/31/2019 3:11:00 PM

Quant Time: Oct 31 14:12:07 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 18:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	17379	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	73068	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	33225	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	44659	20.00	ng	0.00
76) Chrysene-d12	13.90	240	36622	20.00	ng	0.00
87) Perylene-d12	15.34	264	27423	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	108901	93.22	ng	0.00
7) Phenol-d6	6.39	99	155152	98.89	ng	0.00
23) Nitrobenzene-d5	7.29	82	85930	58.06	ng	-0.01
42) 2,4,6-Tribromophenol	10.56	330	19892	69.19	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	123470	52.36	ng	-0.01
79) Terphenyl-d14	12.83	244	109064	48.58	ng	0.00
Target Compounds						
37) 2-Methylnaphthalene	8.73	142	9280	3.803	ng	Qvalue # 89
38) 1-Methylnaphthalene	8.83	142	7920m	3.454	ng	
50) Dimethylphthalate	9.48	163	19190	8.102	ng	# 97
58) Fluorene	10.32	166	7806	3.486	ng	# 97
71) Phenanthrene	11.27	178	46695	18.007	ng	98
72) Anthracene	11.33	178	12452m	4.680	ng	
75) Fluoranthene	12.47	202	60001	23.113	ng	97
78) Pyrene	12.70	202	48649	15.466	ng	94
81) Benzo(a)anthracene	13.89	228	21181	8.574	ng	# 92
83) Chrysene	13.93	228	19801	8.179	ng	# 90
88) Benzo(b)fluoranthene	14.93	252	15132m	9.344	ng	
89) Benzo(k)fluoranthene	14.95	252	5903m	3.557	ng	
90) Benzo(a)pyrene	15.29	252	11053	7.507	ng	# 58
91) Dibenzo(a,h)anthracene	16.76	278	3030	2.380	ng	# 26
92) Benzo(a,h,i)perylene	17.21	276	6508	5.403	ng	# 61

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

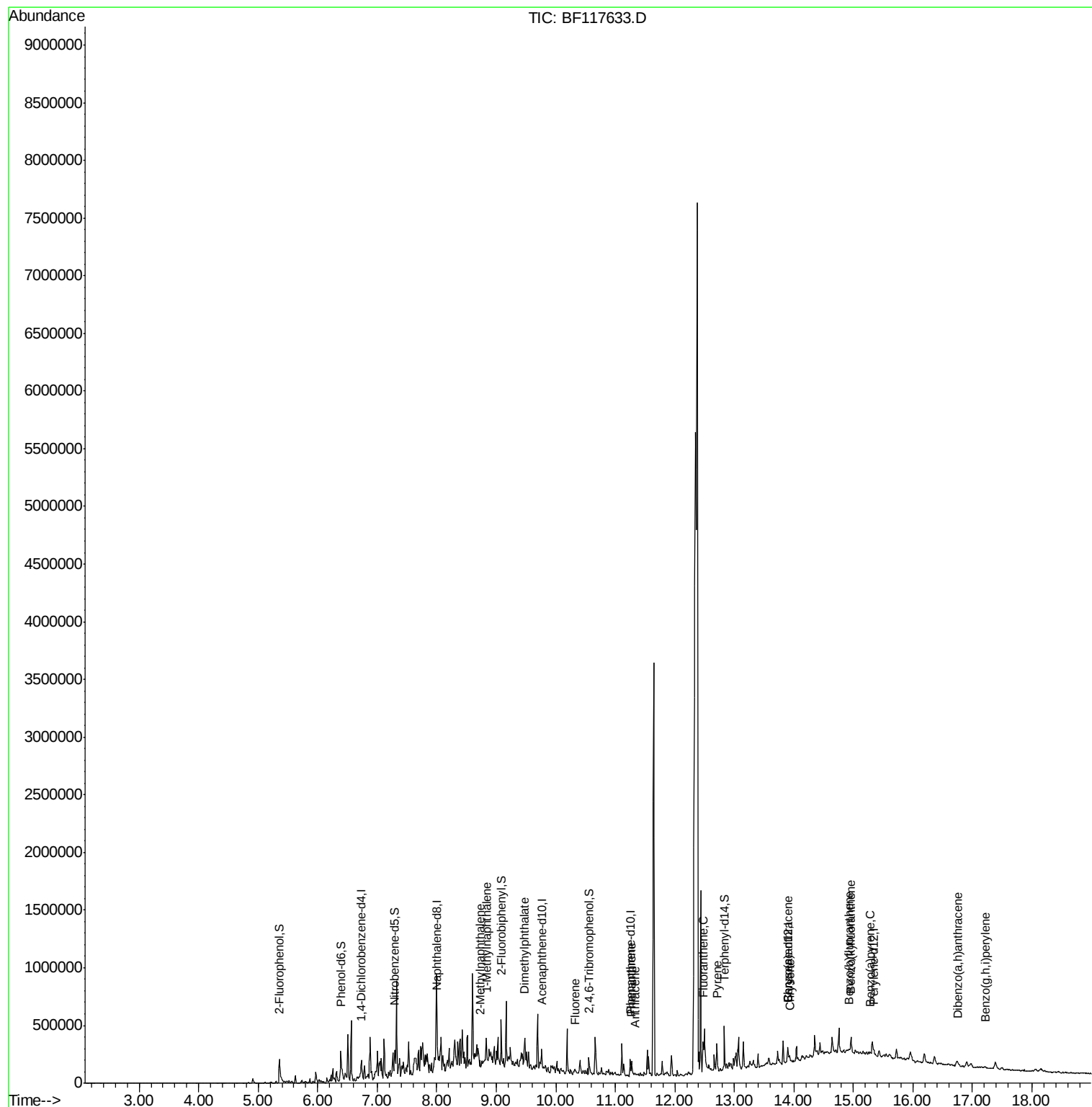
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117633.D
Acq On : 30 Oct 2019 19:06
Operator : JU
Sample : K5140-05RE 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

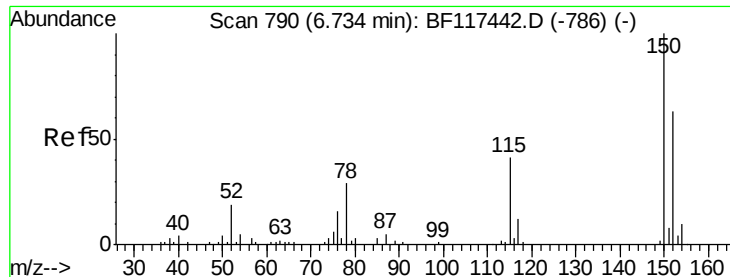
Instrument :
BNA_F
ClientSampleId :
HR-06-102519RE

Manual Integrations
APPROVED

mohammad
10/31/2019 3:11:00 PM

Quant Time: Oct 31 14:12:07 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 18:53:31 2019
Response via : Initial Calibration





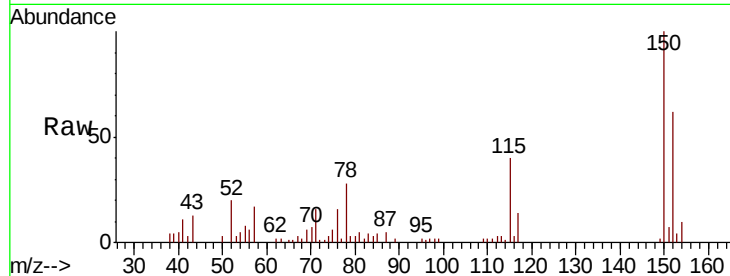
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.73 min Scan# 789
 Delta R.T. -0.01 min
 Lab File: BF117633.D
 Acq: 30 Oct 2019 19:06

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-102519RE

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.4	126.8	190.2
115	64.5	51.6	77.4

Manual Integrations
 APPROVED

mohammad
 10/31/2019 3:11:00 PM

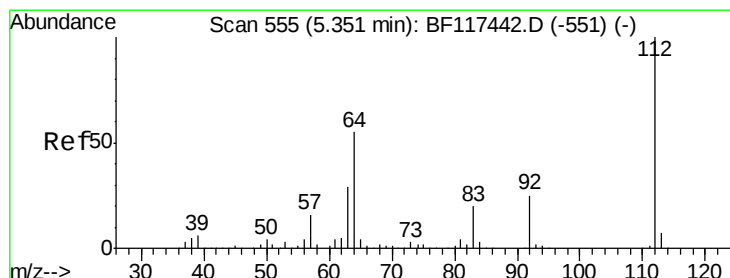
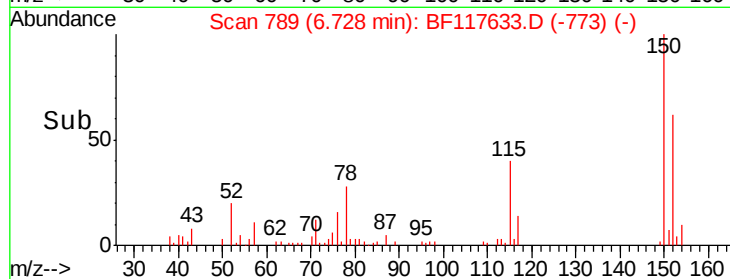
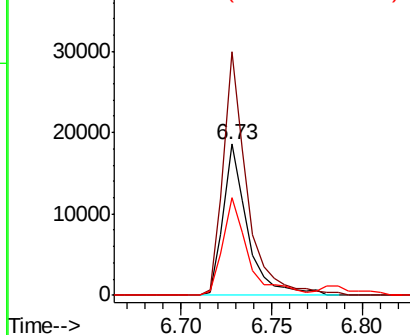


Abundance

Ion 152.00 (151.70 to 152.70): E

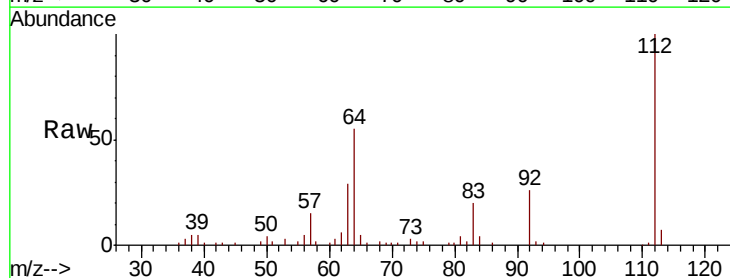
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5
 2-Fluorophenol
 Concen: 93.223 ng
 RT: 5.36 min Scan# 556
 Delta R.T. 0.01 min
 Lab File: BF117633.D
 Acq: 30 Oct 2019 19:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.4	44.1	66.1
63	28.7	23.4	35.2

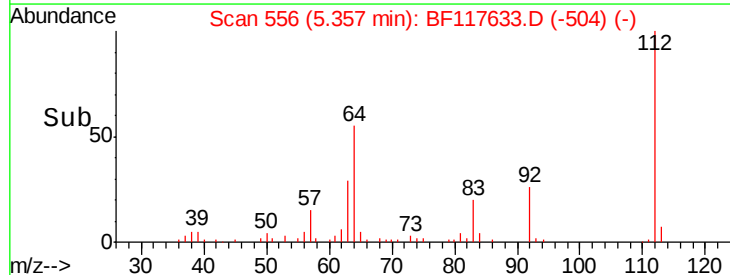
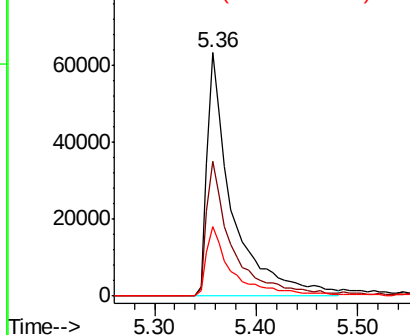


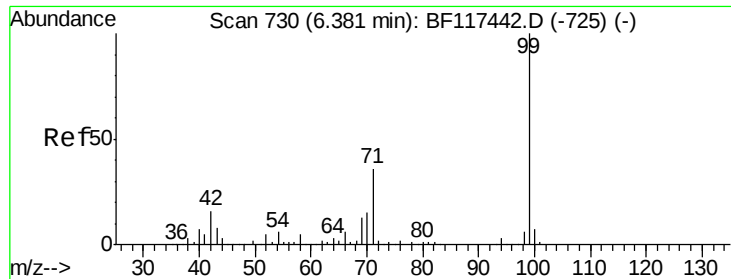
Abundance

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: 98.886 ng

RT: 6.39 min Scan# 731

Delta R.T. 0.01 min

Lab File: BF117633.D

Acq: 30 Oct 2019 19:06

Instrument :

BNA_F

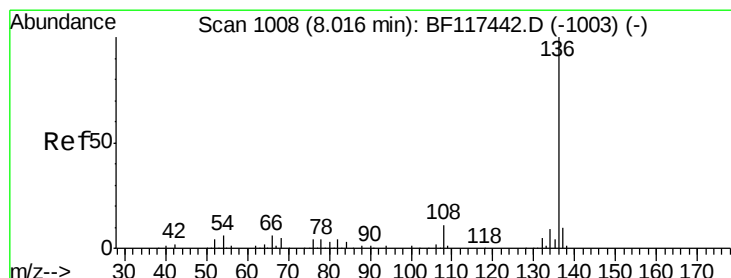
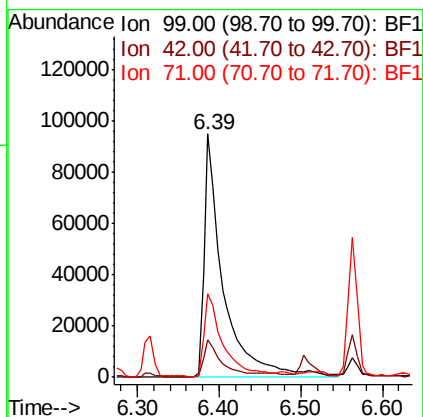
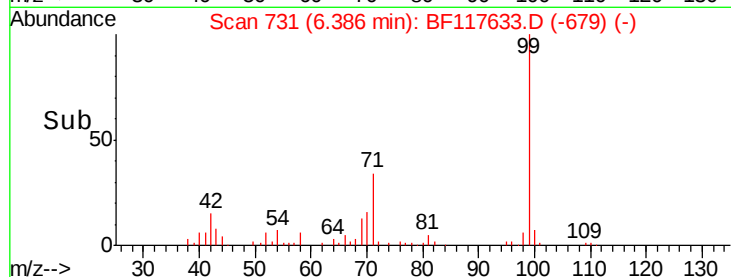
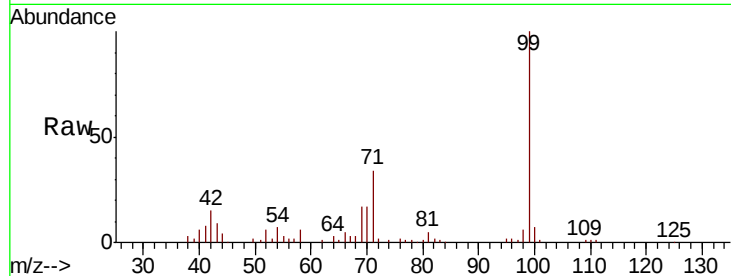
ClientSampleId :

HR-06-102519RE

Tot Ion:	99	Resp:	155152
Ion Ratio	Lower	Upper	
99	100		
42	15.3	12.8	19.2
71	34.1	28.6	43.0

Manual Integrations
APPROVED

mohammad
10/31/2019 3:11:00 PM



#21

Naphthalene-d8

Concen: 20.000 ng

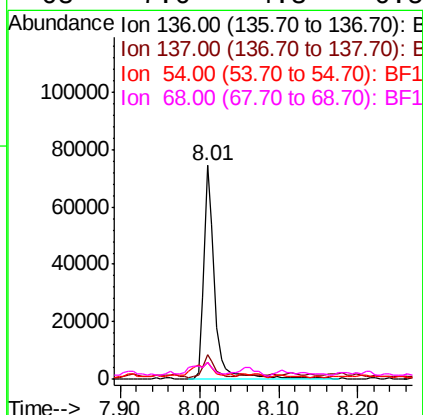
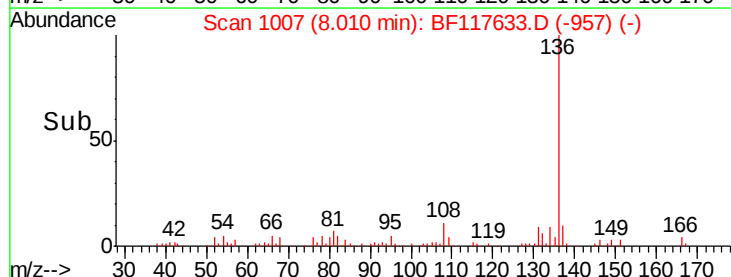
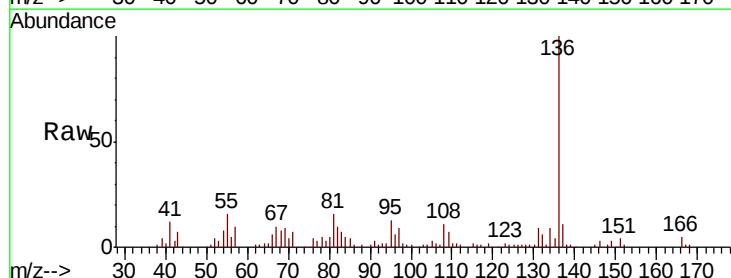
RT: 8.01 min Scan# 1007

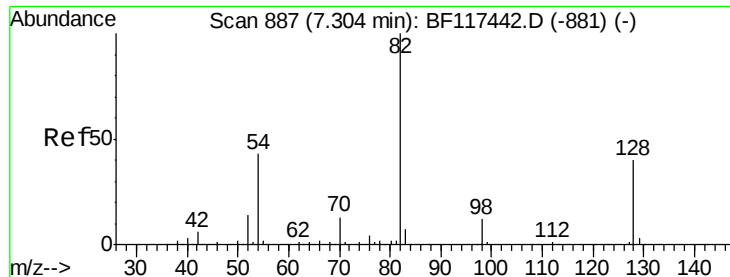
Delta R.T. -0.01 min

Lab File: BF117633.D

Acq: 30 Oct 2019 19:06

Tgt Ion:	136	Resp:	73068
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.2	12.4
54	7.5	4.5	6.7#
68	7.6	4.3	6.5#





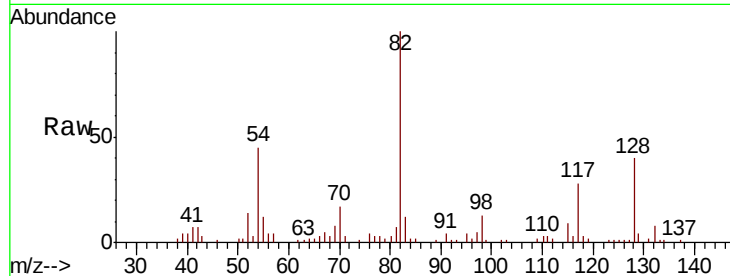
#23
Nitrobenzene-d5
Concen: 58.058 ng
RT: 7.29 min Scan# 885
Delta R.T. -0.01 min
Lab File: BF117633.D
Acq: 30 Oct 2019 19:06

Instrument :
BNA_F
ClientSampleId :
HR-06-102519RE

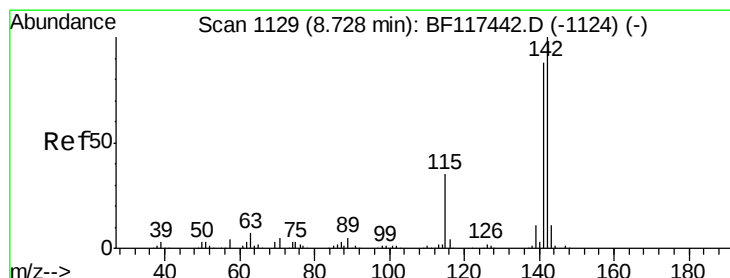
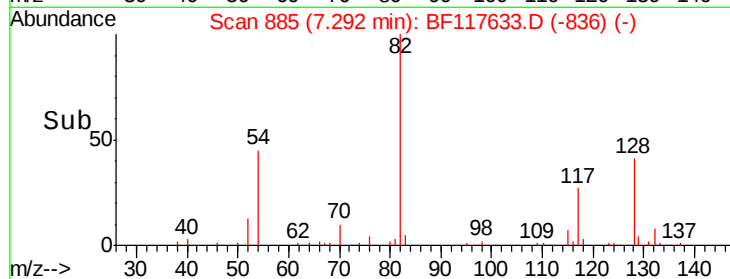
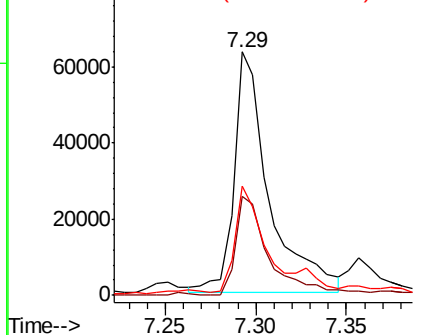
Tot Ion	82	Resp	85930
Ion Ratio	Lower	Upper	
82	100		
128	40.4	32.2	48.2
54	45.1	34.2	51.2

Manual Integrations
APPROVED

mohammad
10/31/2019 3:11:00 PM

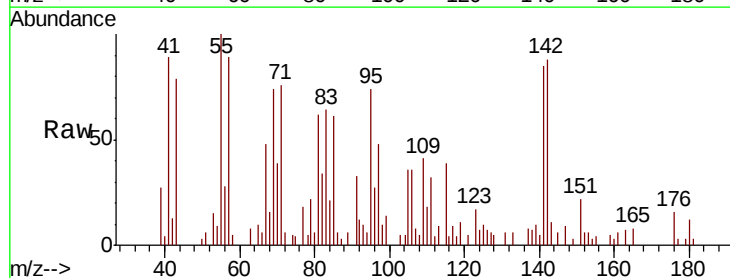


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

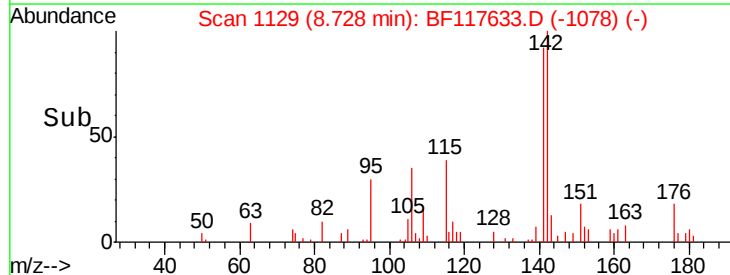
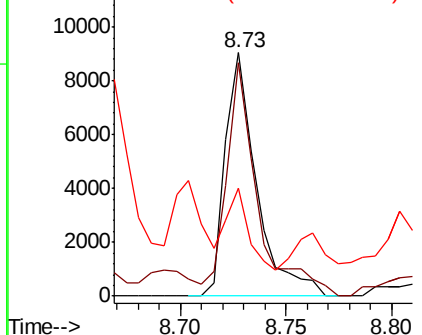


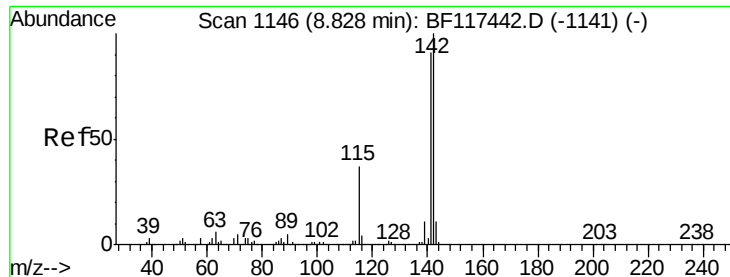
#37
2-Methylnaphthalene
Concen: 3.803 ng
RT: 8.73 min Scan# 1129
Delta R.T. -0.00 min
Lab File: BF117633.D
Acq: 30 Oct 2019 19:06

Tgt Ion	142	Resp	9280
Ion Ratio	Lower	Upper	
142	100		
141	95.9	70.3	105.5
115	44.5	28.2	42.2#



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





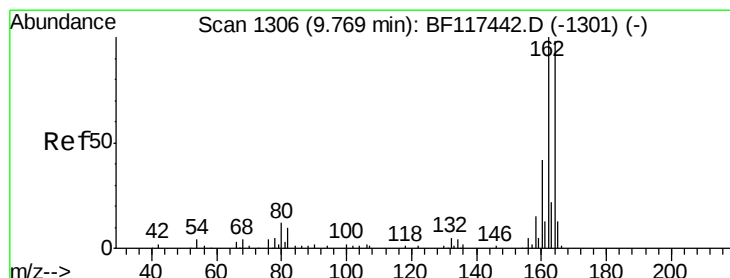
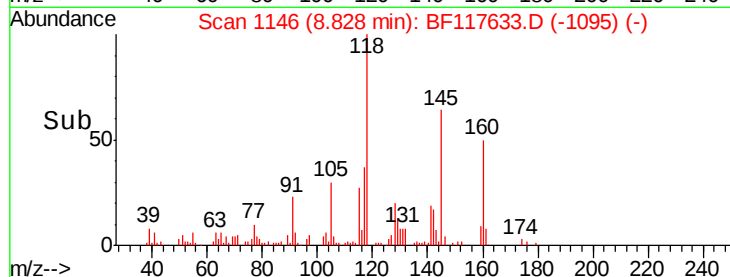
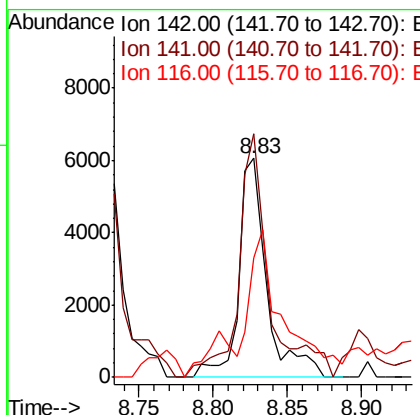
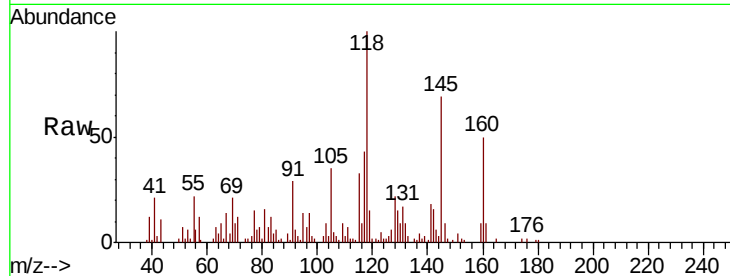
#38
1-Methylnaphthalene
Concen: 3.454 ng m
RT: 8.83 min Scan# 1146
Delta R.T. -0.00 min
Lab File: BF117633.D
Acq: 30 Oct 2019 19:06

Instrument :
BNA_F
ClientSampleId :
HR-06-102519RE

Tot Ion	Ratio	Lower	Upper
142	100		
141	111.2	73.3	109.9#
116	54.3	3.1	4.7#

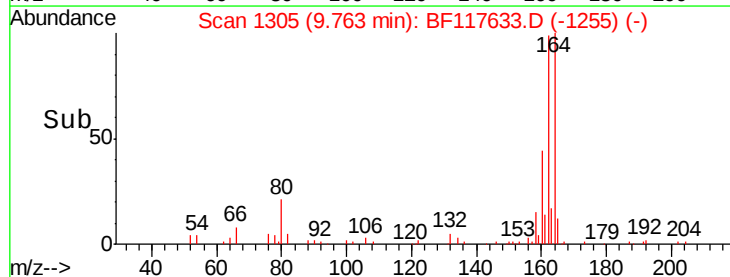
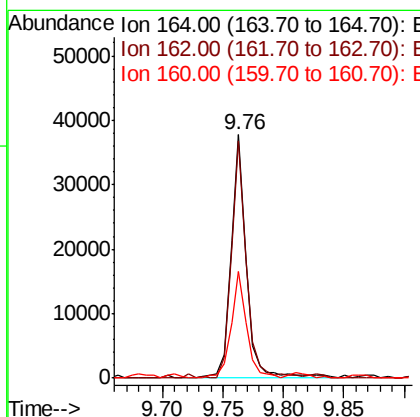
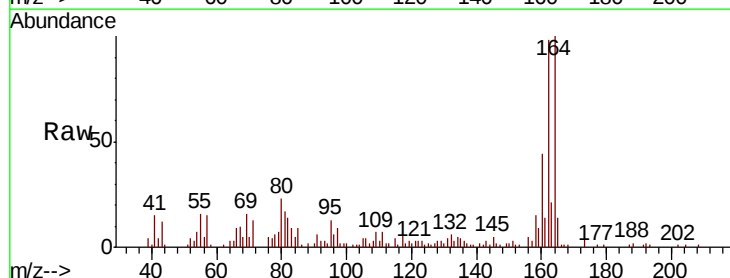
Manual Integrations
APPROVED

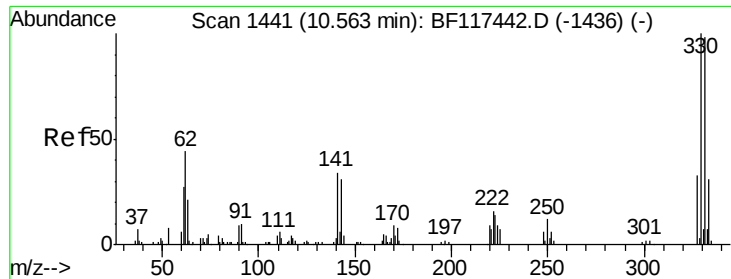
mohammad
10/31/2019 3:11:00 PM



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF117633.D
Acq: 30 Oct 2019 19:06

Tgt Ion	Ratio	Lower	Upper
164	100		
162	97.5	81.8	122.6
160	43.6	34.4	51.6





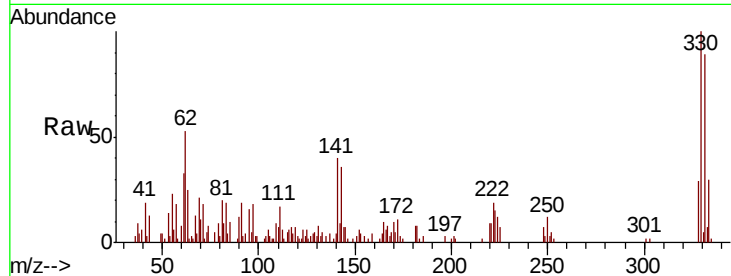
#42
 2,4,6-Tribromophenol
 Concen: 69.194 ng
 RT: 10.56 min Scan# 1441
 Delta R.T. -0.00 min
 Lab File: BF117633.D
 Acq: 30 Oct 2019 19:06

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-102519RE

Tot Ion	Ratio	Lower	Upper
330	100		
332	92.7	78.5	117.7
141	47.1	37.0	55.6

Manual Integrations
 APPROVED

mohammad
 10/31/2019 3:11:00 PM

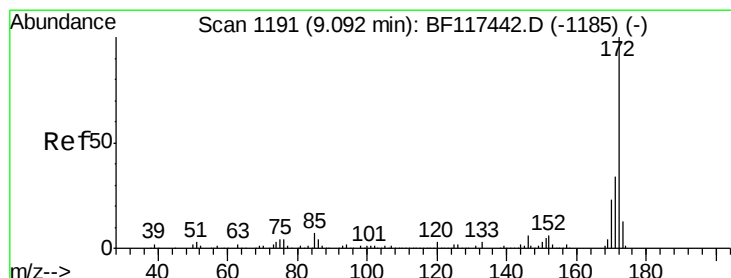
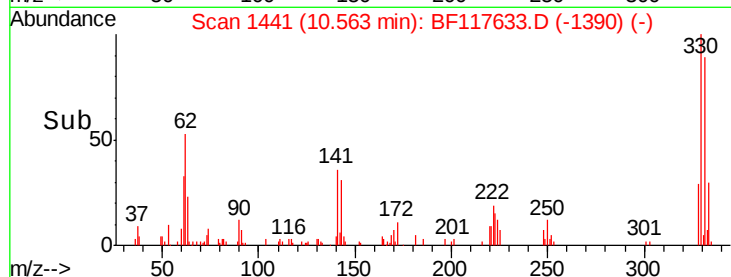
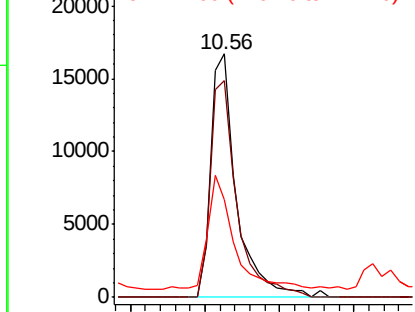


Abundance

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: 52.361 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF117633.D
 Acq: 30 Oct 2019 19:06

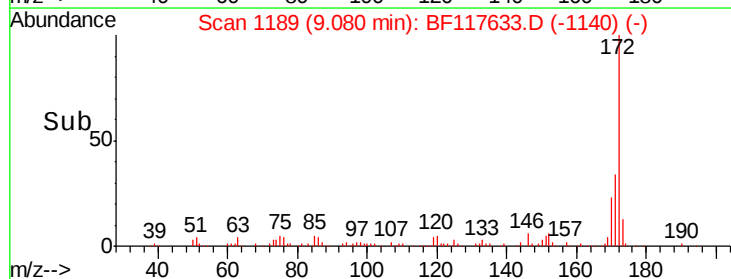
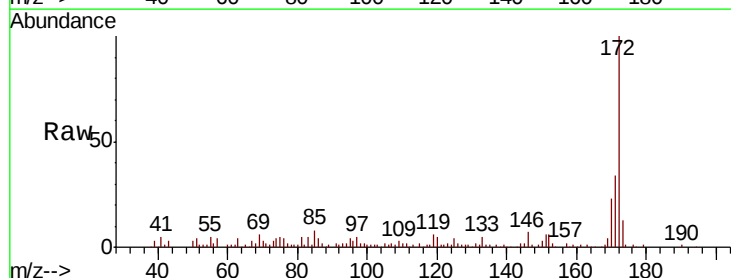
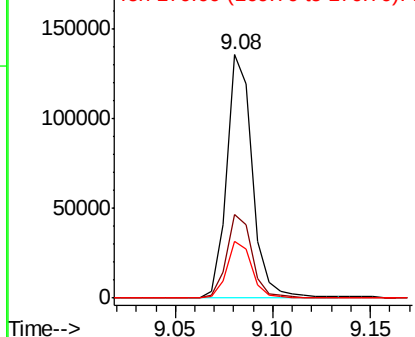
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.1	27.5	41.3
170	23.2	18.6	27.8

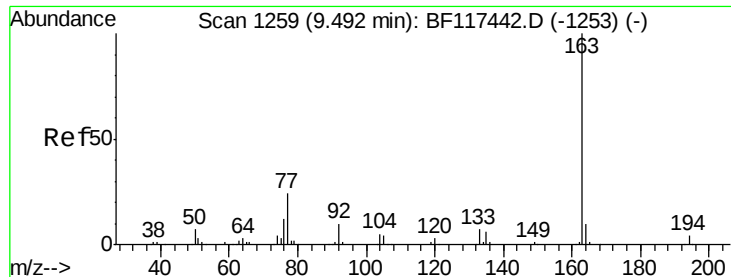
Abundance

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





#50

Dimethylphthalate

Concen: 8.102 ng

RT: 9.48 min Scan# 1257

Delta R.T. -0.01 min

Lab File: BF117633.D

Acq: 30 Oct 2019 19:06

Instrument :

BNA_F

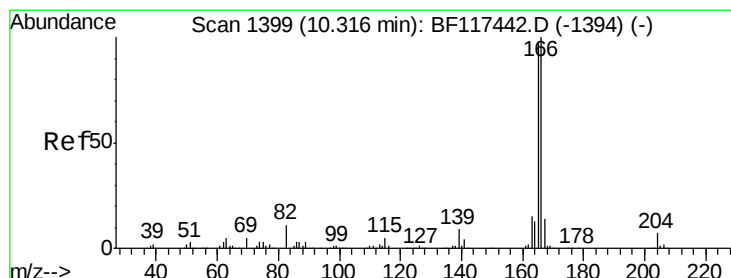
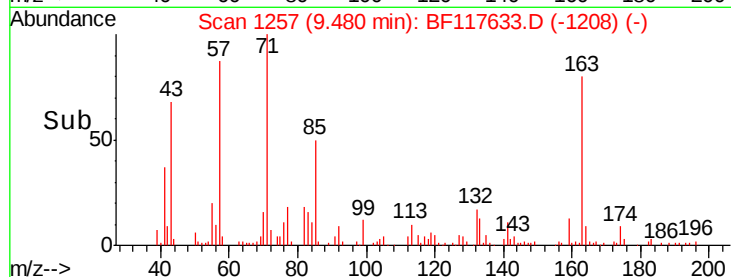
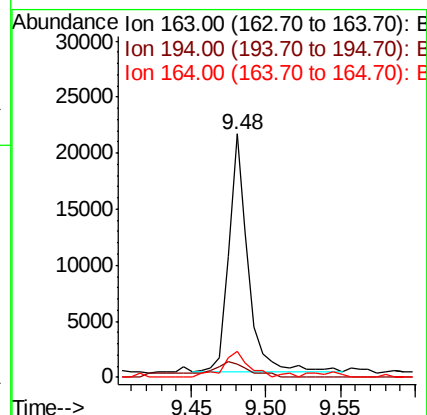
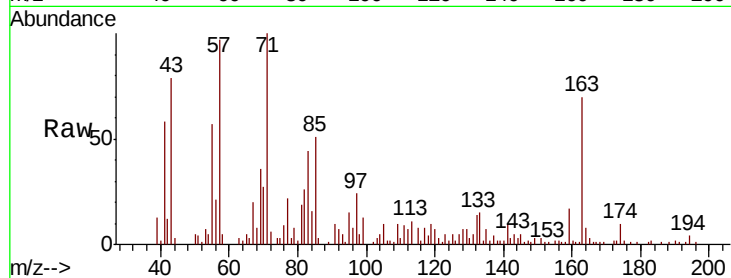
ClientSampleId :

HR-06-102519RE

Tot Ion:	163	Resp:	19190
Ion Ratio	Lower	Upper	
163	100		
194	5.4	2.9	4.3#
164	10.8	8.2	12.2

Manual Integrations
APPROVED

mohammad
10/31/2019 3:11:00 PM



#58

Fluorene

Concen: 3.486 ng

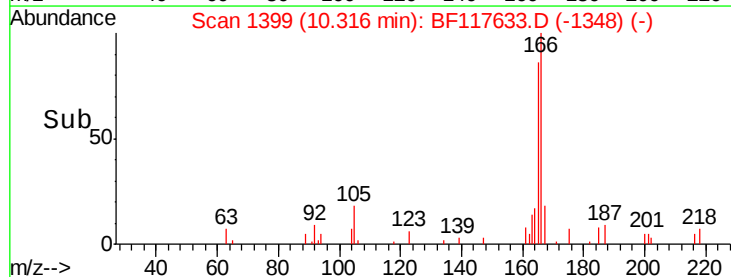
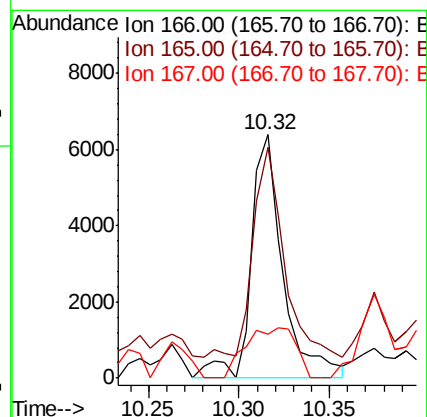
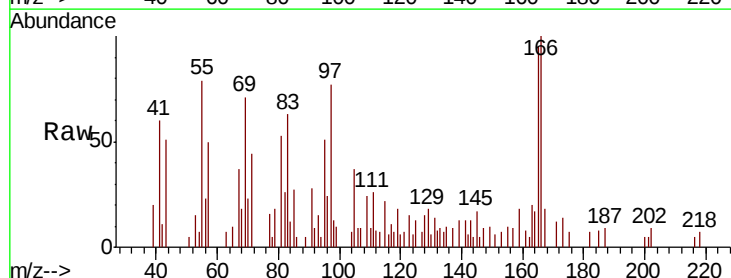
RT: 10.32 min Scan# 1399

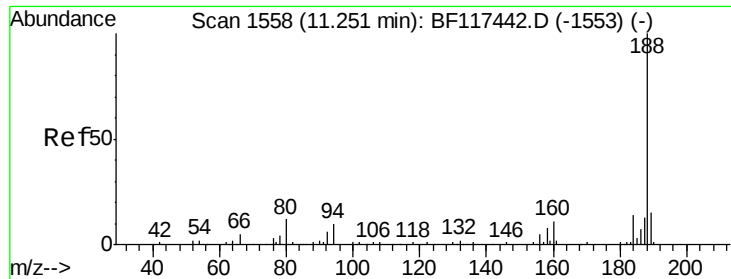
Delta R.T. -0.00 min

Lab File: BF117633.D

Acq: 30 Oct 2019 19:06

Tgt Ion:	166	Resp:	7806
Ion Ratio	Lower	Upper	
166	100		
165	94.8	77.6	116.4
167	18.3	11.0	16.4#





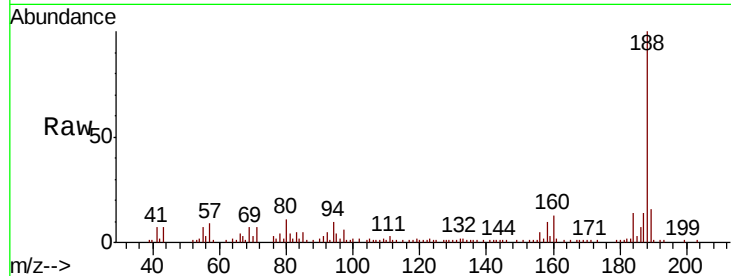
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.25 min Scan# 1558
Delta R.T. -0.00 min
Lab File: BF117633.D
Acq: 30 Oct 2019 19:06

Instrument :
BNA_F
ClientSampleId :
HR-06-102519RE

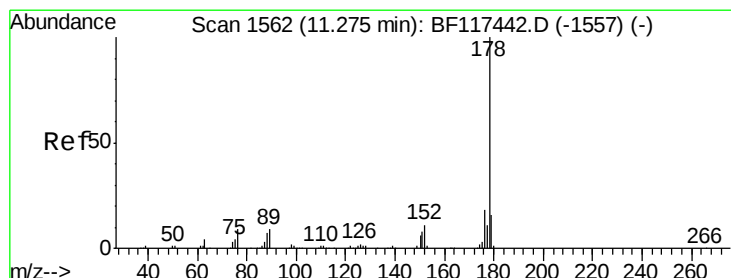
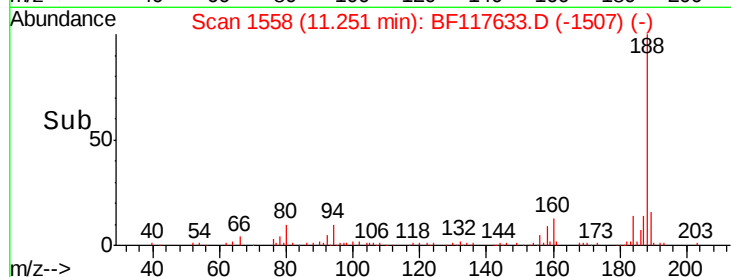
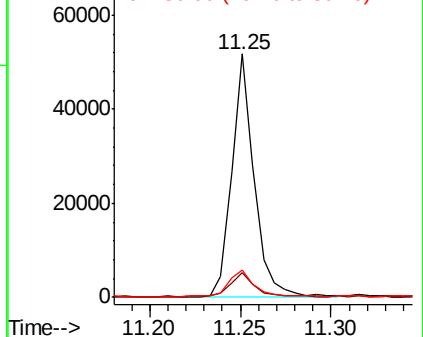
Tot Ion	Ratio	Resp	Lower	Upper
188	100	44659		
94	10.2		8.0	12.0
80	11.1		9.5	14.3

Manual Integrations
APPROVED

mohammad
10/31/2019 3:11:00 PM

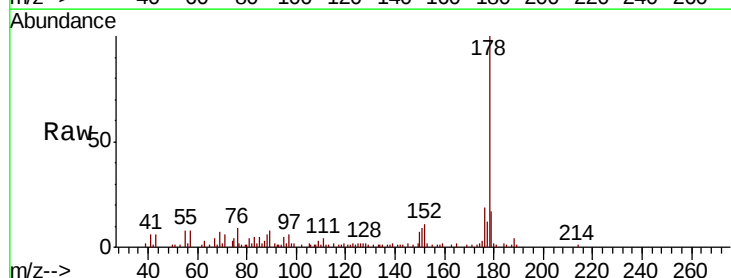


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

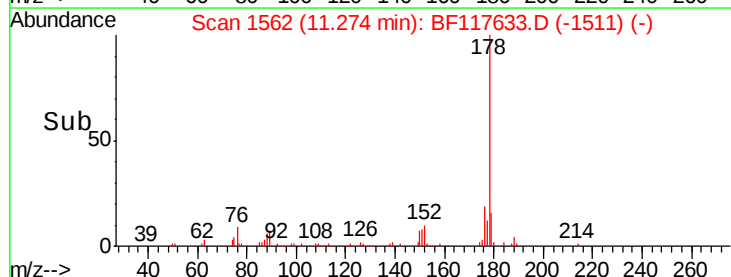
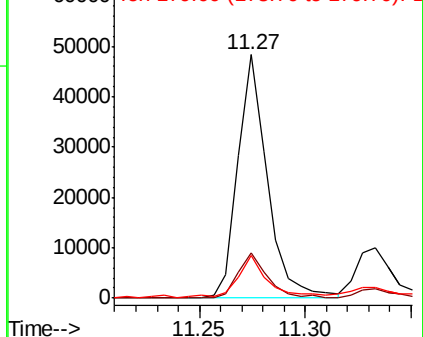


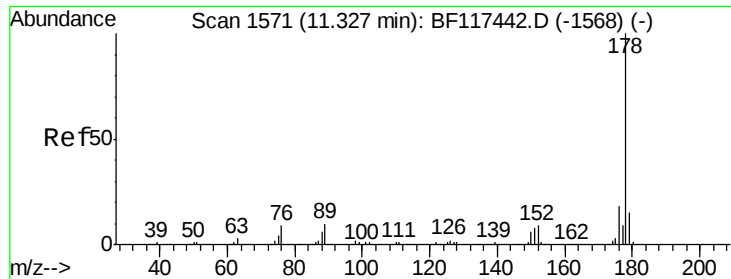
#71
Phenanthrene
Concen: 18.007 ng
RT: 11.27 min Scan# 1562
Delta R.T. -0.00 min
Lab File: BF117633.D
Acq: 30 Oct 2019 19:06

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	46695		
176	18.8		14.6	22.0
179	17.4		12.6	19.0



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





#72

Anthracene

Concen: 4.680 ng/mL

RT: 11.33 min Scan# 1572

Delta R.T. 0.01 min

Lab File: BF117633.D

Acq: 30 Oct 2019 19:06

Instrument :

BNA_F

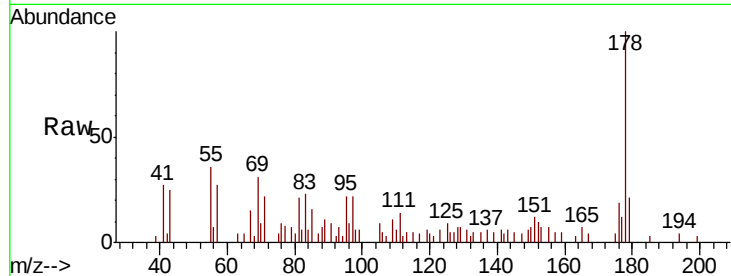
ClientSampleID :

HR-06-102519RE

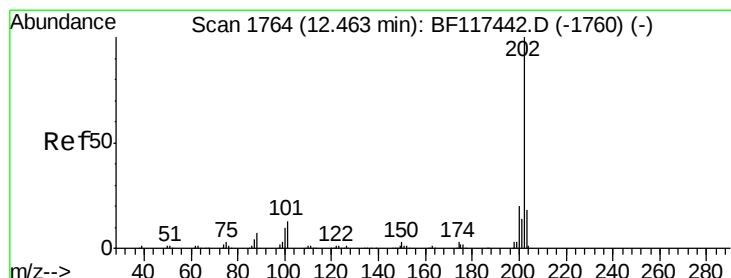
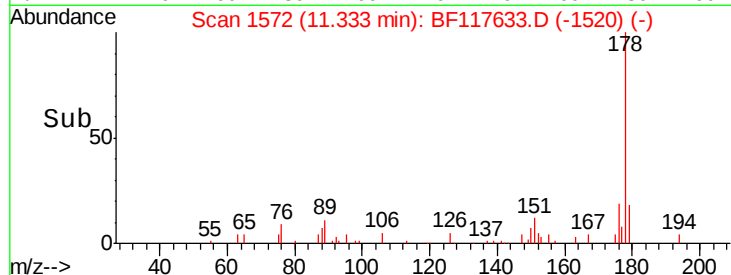
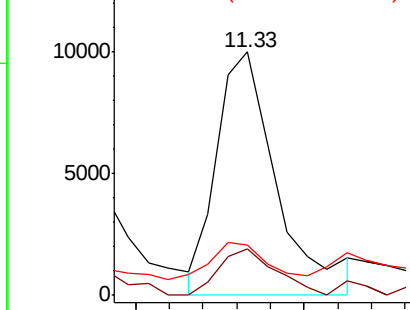
Tot Ion	178	Resp	12452
Ion Ratio	Lower	Upper	
178	100		
176	19.1	14.7	22.1
179	20.9	12.2	18.2#

Manual Integrations
APPROVED

mohammad
10/31/2019 3:11:00 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: 23.113 ng

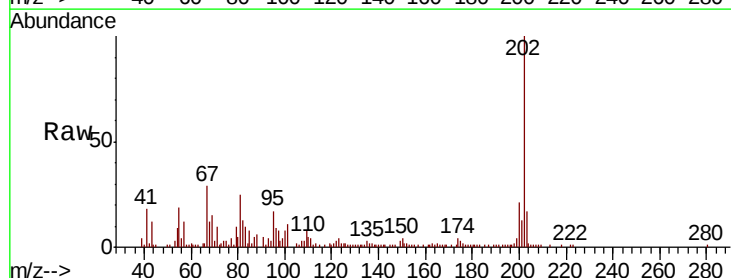
RT: 12.47 min Scan# 1766

Delta R.T. 0.01 min

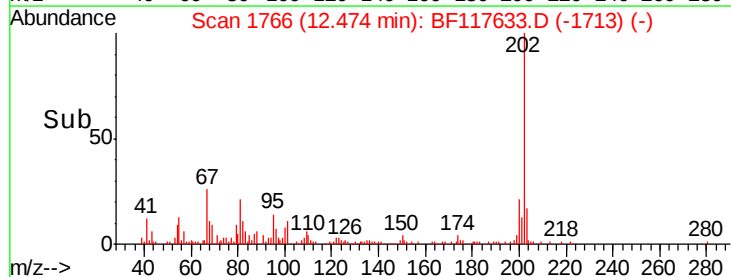
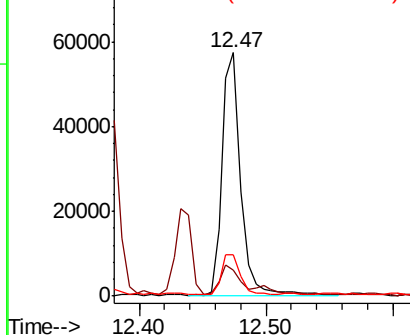
Lab File: BF117633.D

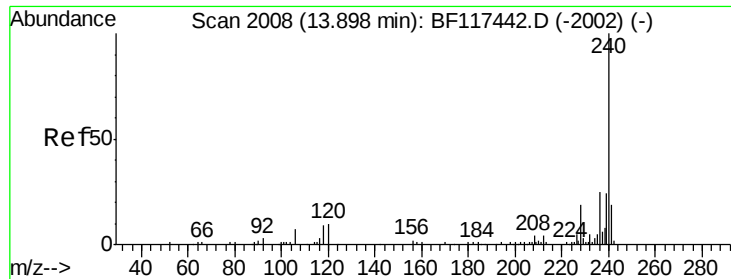
Acq: 30 Oct 2019 19:06

Tgt Ion	202	Resp	60001
Ion Ratio	Lower	Upper	
202	100		
101	10.5	0.0	32.7
203	16.8	0.0	37.6



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





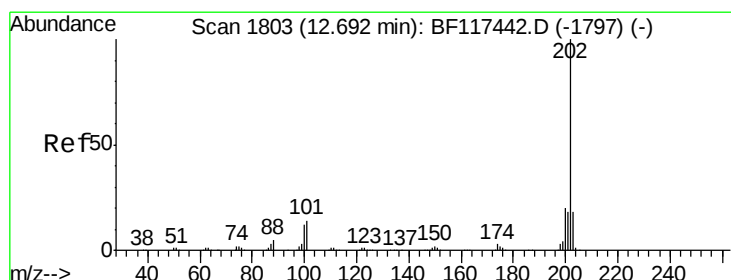
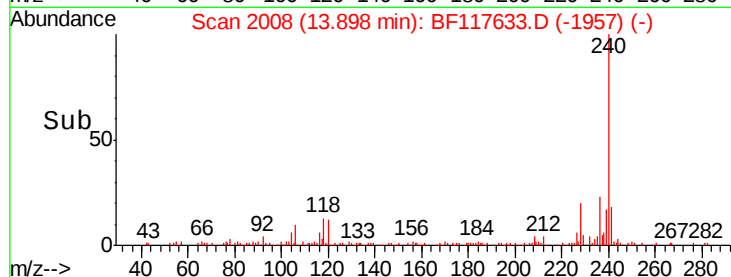
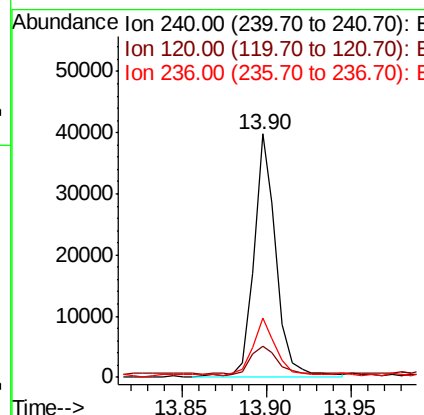
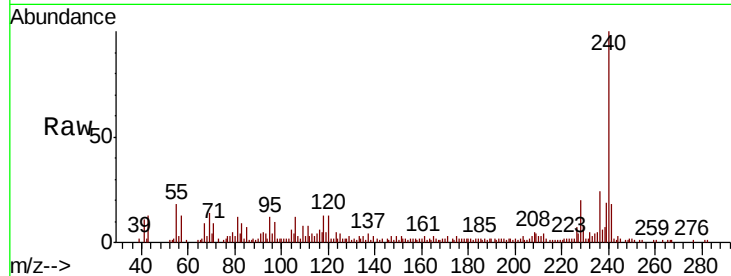
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.90 min Scan# 2008
Delta R.T. -0.00 min
Lab File: BF117633.D
Acq: 30 Oct 2019 19:06

Instrument :
BNA_F
ClientSampleId :
HR-06-102519RE

Tot Ion	Ratio	Lower	Upper
240	100		
120	13.0	8.4	12.6#
236	24.4	20.0	30.0

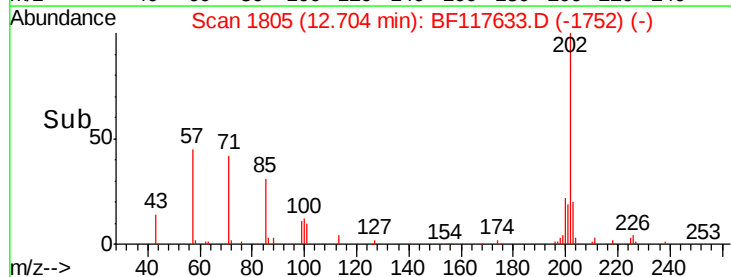
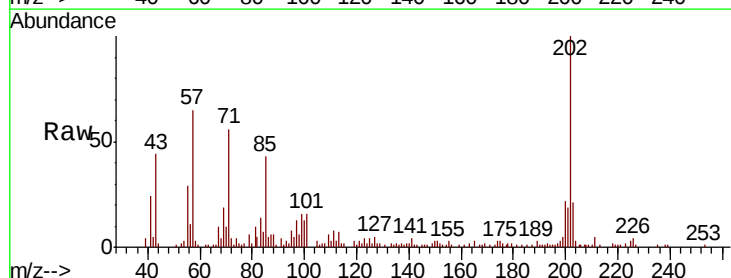
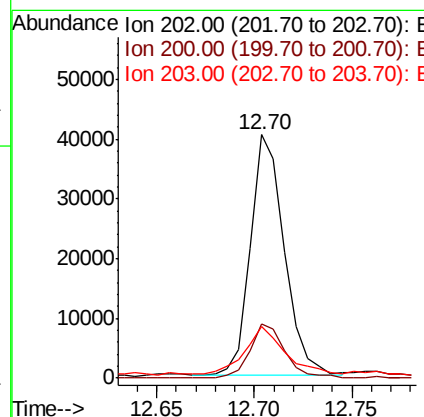
Manual Integrations
APPROVED

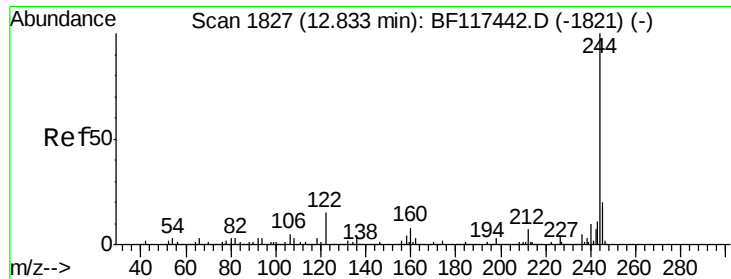
mohammad
10/31/2019 3:11:00 PM



#78
Pyrene
Concen: 15.466 ng
RT: 12.70 min Scan# 1805
Delta R.T. 0.01 min
Lab File: BF117633.D
Acq: 30 Oct 2019 19:06

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.2	16.2	24.2
203	20.9	14.0	21.0





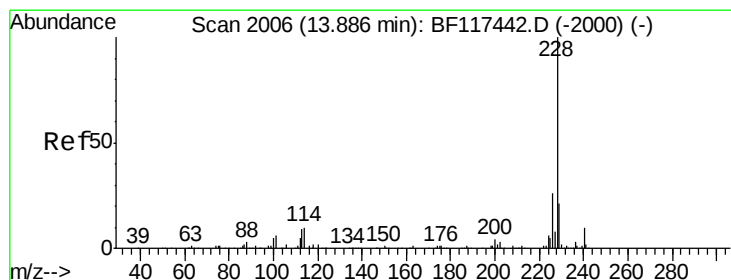
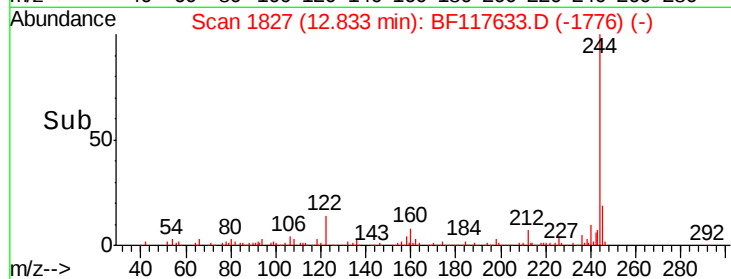
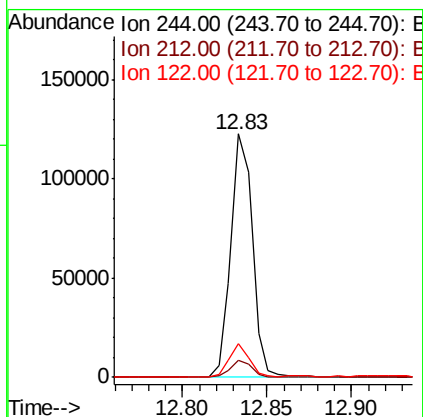
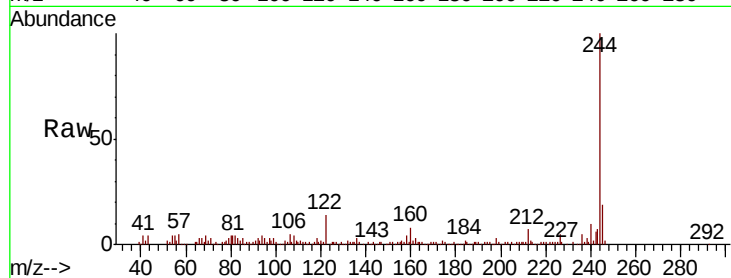
#79
 Terphenyl-d14
 Concen: 48.576 ng
 RT: 12.83 min Scan# 1827
 Delta R.T. -0.00 min
 Lab File: BF117633.D
 Acq: 30 Oct 2019 19:06

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-102519RE

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.8	8.6
122	13.9	11.8	17.8

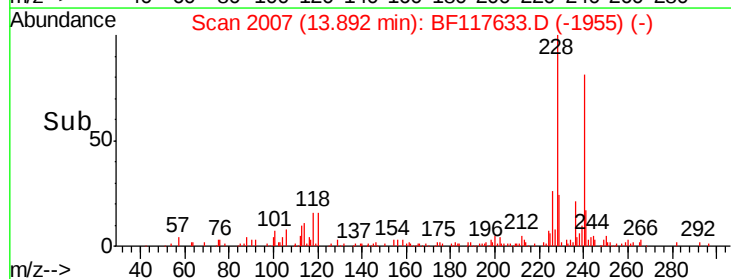
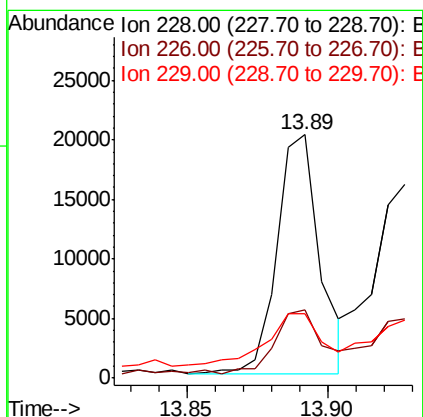
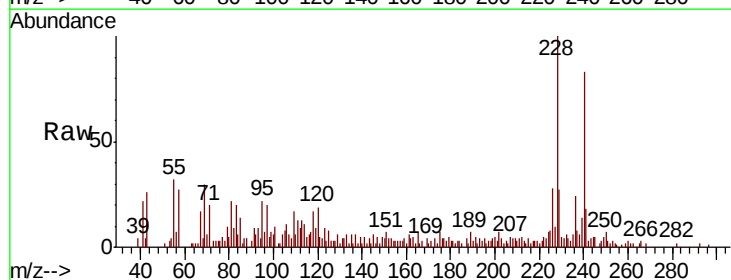
Manual Integrations
 APPROVED

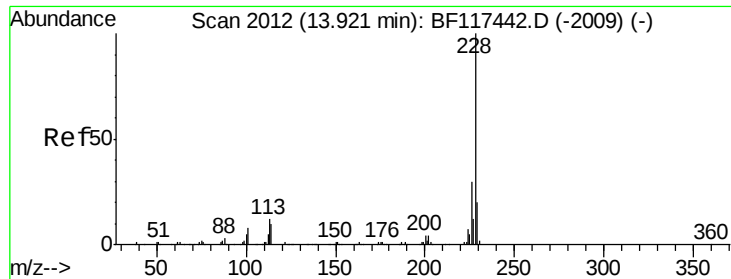
mohammad
 10/31/2019 3:11:00 PM



#81
 Benzo(a)anthracene
 Concen: 8.574 ng
 RT: 13.89 min Scan# 2007
 Delta R.T. 0.01 min
 Lab File: BF117633.D
 Acq: 30 Oct 2019 19:06

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.1	21.0	31.4
229	26.5	16.4	24.6





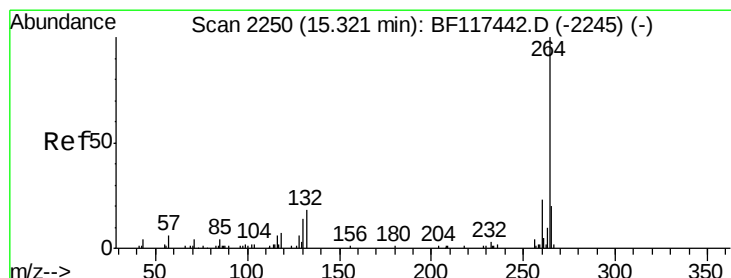
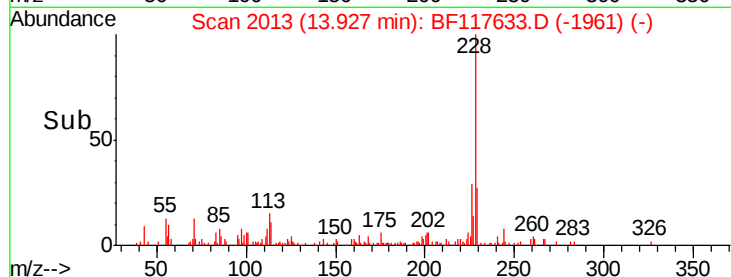
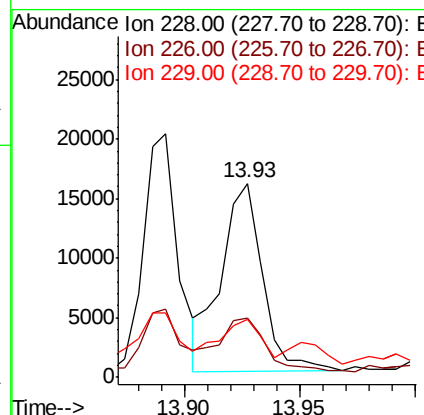
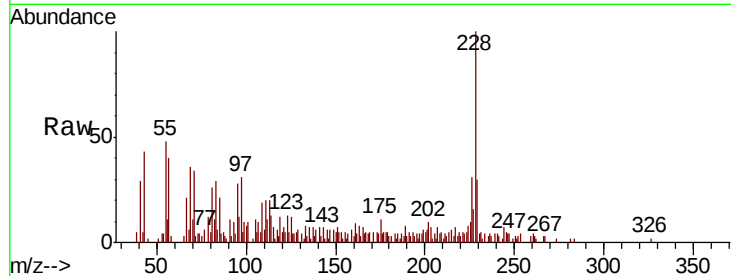
#83
Chrysene
Concen: 8.179 ng
RT: 13.93 min Scan# 2013
Delta R.T. 0.01 min
Lab File: BF117633.D
Acq: 30 Oct 2019 19:06

Instrument :
BNA_F
ClientSampleId :
HR-06-102519RE

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.7	23.9	35.9
229	29.9	15.8	23.6

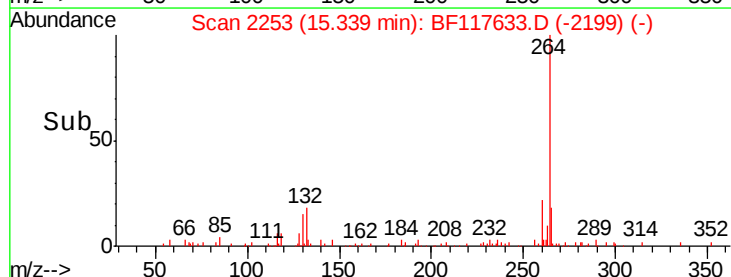
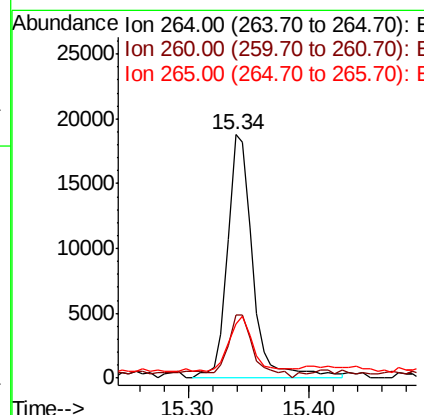
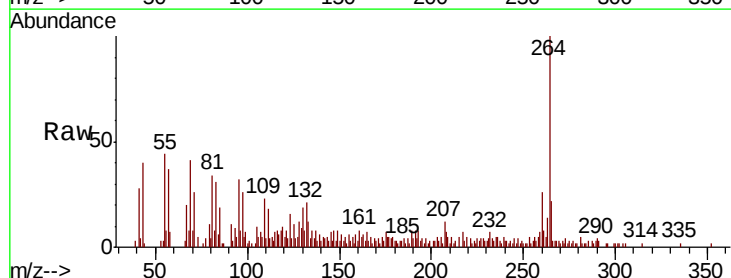
Manual Integrations
APPROVED

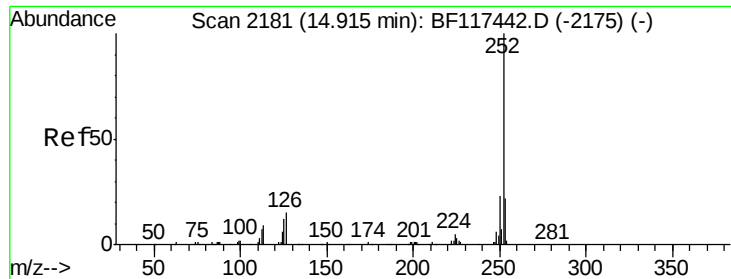
mohammad
10/31/2019 3:11:00 PM



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.34 min Scan# 2253
Delta R.T. 0.02 min
Lab File: BF117633.D
Acq: 30 Oct 2019 19:06

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.7	18.4	27.6
265	22.1	16.1	24.1





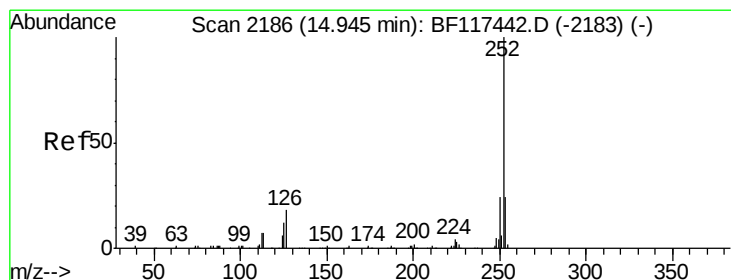
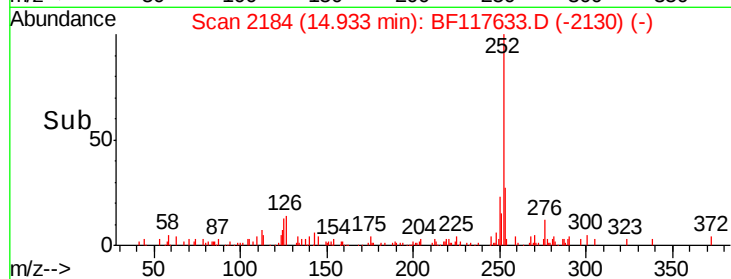
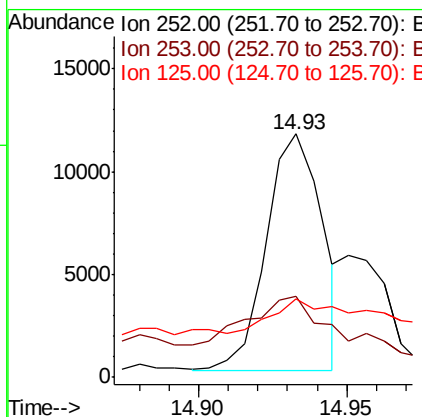
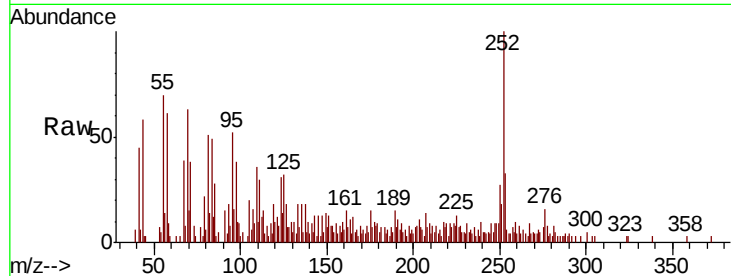
#88
Benzo(b)fluoranthene
Concen: 9.344 ng m
RT: 14.93 min Scan# 2184
Delta R.T. 0.02 min
Lab File: BF117633.D
Acq: 30 Oct 2019 19:06

Instrument :
BNA_F
ClientSampleId :
HR-06-102519RE

Tot Ion	Ratio	Lower	Upper
252	100		
253	33.1	17.8	26.6#
125	32.0	9.9	14.9#

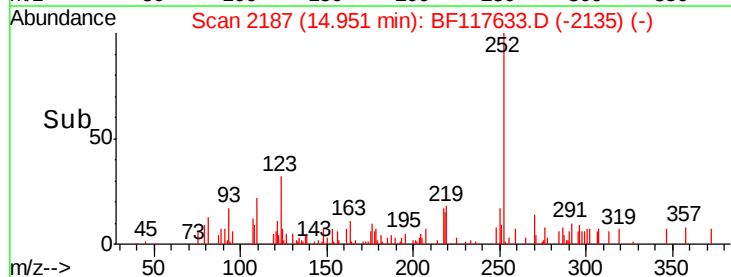
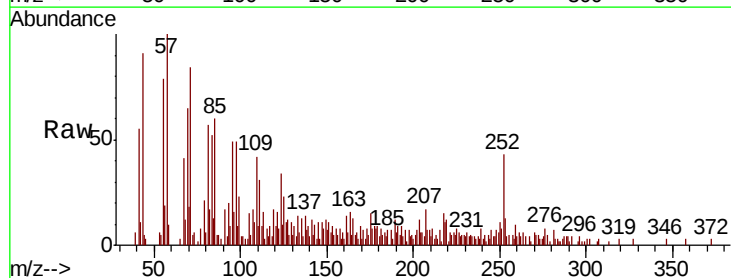
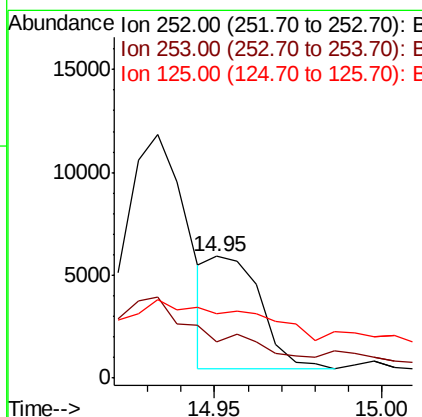
Manual Integrations
APPROVED

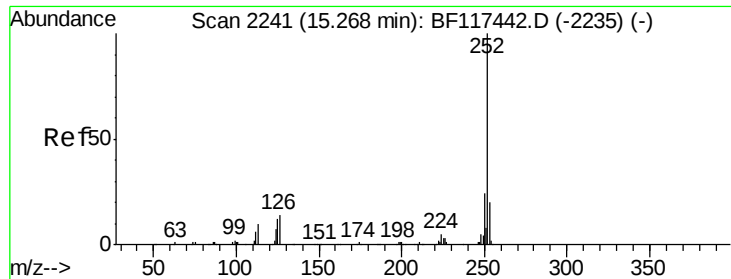
mohammad
10/31/2019 3:11:00 PM



#89
Benzo(k)fluoranthene
Concen: 3.557 ng m
RT: 14.95 min Scan# 2187
Delta R.T. 0.01 min
Lab File: BF117633.D
Acq: 30 Oct 2019 19:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	30.0	18.0	27.0#
125	53.0	8.9	13.3#





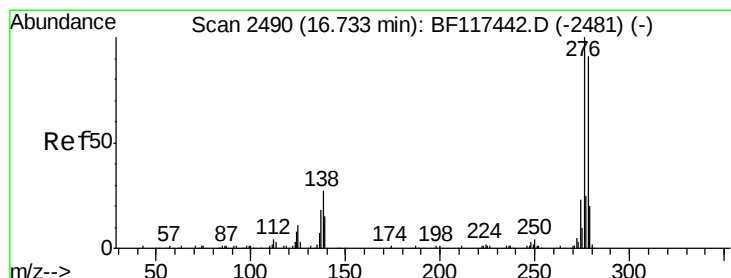
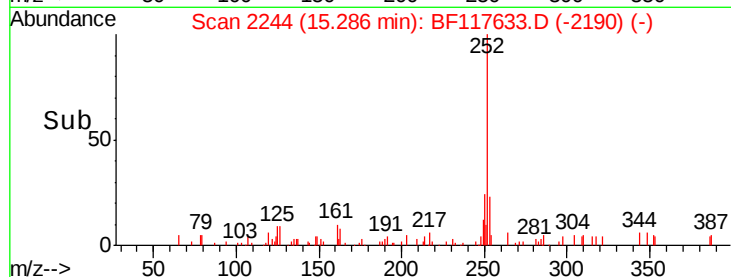
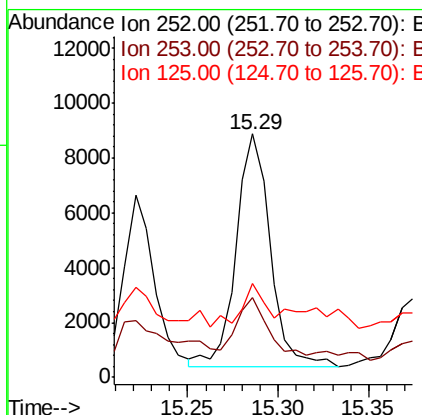
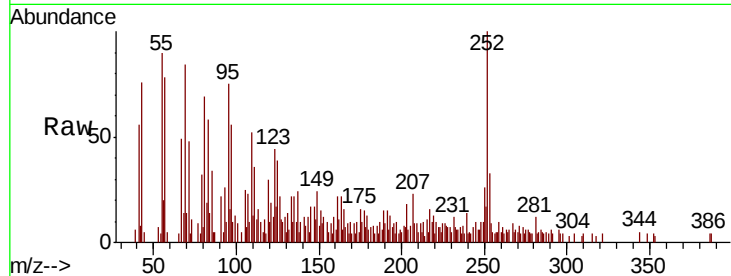
#90
Benzo(a)pyrene
Concen: 7.507 ng
RT: 15.29 min Scan# 2244
Delta R.T. 0.02 min
Lab File: BF117633.D
Acq: 30 Oct 2019 19:06

Instrument :
BNA_F
ClientSampleId :
HR-06-102519RE

Tot Ion	Ratio	Lower	Upper
252	100		
253	32.6	16.3	24.5#
125	38.6	9.2	13.8#

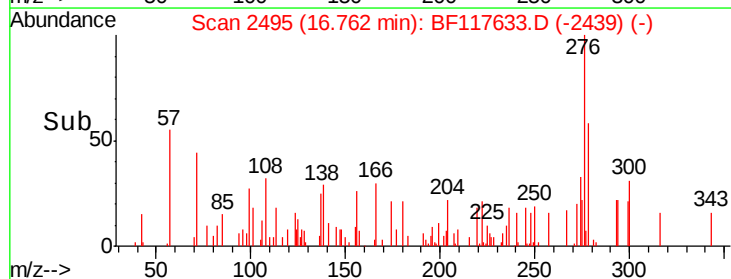
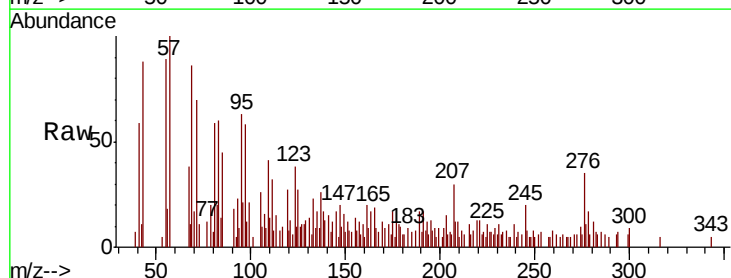
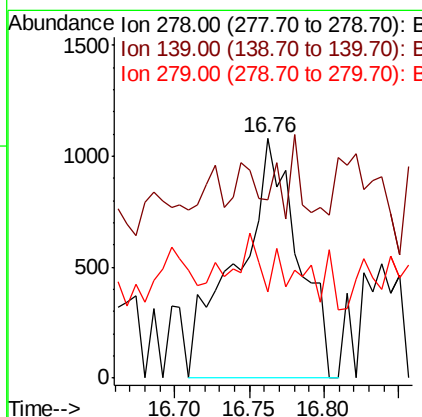
Manual Integrations
APPROVED

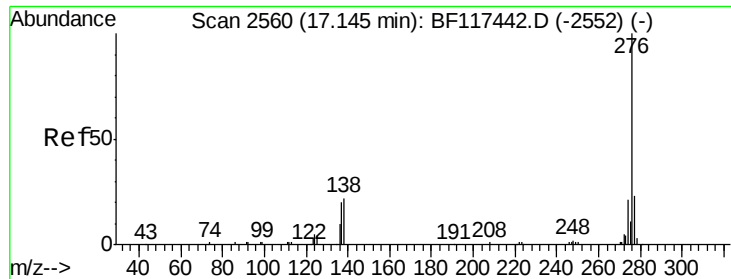
mohammad
10/31/2019 3:11:00 PM



#91
Dibenzo(a,h)anthracene
Concen: 2.380 ng
RT: 16.76 min Scan# 2495
Delta R.T. 0.03 min
Lab File: BF117633.D
Acq: 30 Oct 2019 19:06

Tgt Ion	Ratio	Lower	Upper
278	100		
139	74.3	13.4	20.0#
279	36.2	17.8	26.6#





#92
 Benzo(a,h,i)perylene
 Concen: 5.403 ng
 RT: 17.21 min Scan# 2571
 Delta R.T. 0.06 min
 Lab File: BF117633.D
 Acq: 30 Oct 2019 19:06

Instrument :
 BNA_F
 ClientSampleId :
 HR-06-102519RE

Tot Ion	Ion	Ratio	Resp	Lower	Upper
6508	276	100			
	277	41.5		18.4	27.6#
	138	41.6		17.8	26.6#

Manual Integrations
 APPROVED

mohammad
 10/31/2019 3:11:00 PM

