

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
 Data File : BF115175.D
 Acq On : 25 Jun 2019 3:54
 Operator : HP/JU
 Sample : K3482-07
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-4

Manual Integrations
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mohammad
 6/28/2019 8:25:33 AM

Quant Time: Jun 25 08:07:57 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF062119.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 24 04:21:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.61	152	280115	20.00	ng	0.00
21) Naphthalene-d8	7.90	136	1069664	20.00	ng	0.00
39) Acenaphthene-d10	9.64	164	524767	20.00	ng	0.00
64) Phenanthrene-d10	11.11	188	944711	20.00	ng	0.00
76) Chrysene-d12	13.74	240	530961	20.00	ng	0.00
87) Perylene-d12	15.11	264	549992	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.21	112	1175477	64.76	ng	0.00
7) Phenol-d6	6.25	99	1468542	66.65	ng	0.00
23) Nitrobenzene-d5	7.17	82	858895	49.39	ng	-0.01
42) 2,4,6-Tribromophenol	10.42	330	338228	61.12	ng	0.00
45) 2-Fluorobiphenyl	8.97	172	1281913	41.49	ng	-0.01
79) Terphenyl-d14	12.70	244	1079510	43.23	ng	-0.01
Target Compounds						
31) Naphthalene	7.91	128	468350	8.920	ng	98
37) 2-Methylnaphthalene	8.60	142	225462	6.368	ng	97
38) 1-Methylnaphthalene	8.70	142	195939m	5.795	ng	
49) Acenaphthylene	9.50	152	1014368	19.115	ng	99
50) Dimethylphthalate	9.37	163	459719	11.907	ng	99
55) Dibenzofuran	9.84	168	486069	10.199	ng	96
71) Phenanthrene	11.15	178	4090422	80.418	ng	97
72) Anthracene	11.19	178	816147	15.896	ng	99
73) Carbazole	11.34	167	382351	8.339	ng	98
75) Fluoranthene	12.34	202	4974958	98.029	ng	97
78) Pyrene	12.56	202	4788104	117.342	ng	94
81) Benzo(a)anthracene	13.74	228	2599043m	68.220	ng	
83) Chrysene	13.77	228	2379077	68.171	ng	96
86) Indeno(1,2,3-cd)pyrene	16.39	276	1171795	28.376	ng	95
88) Benzo(b)fluoranthene	14.74	252	2841324m	82.794	ng	
89) Benzo(k)fluoranthene	14.76	252	1016511m	33.030	ng	
90) Benzo(a)pyrene	15.06	252	1935457	62.573	ng	98
91) Dibenz(a,h)anthracene	16.39	278	268433	9.296	ng	96
92) Benzo(a,h,i)perylene	16.77	276	1243423	42.545	ng	99

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

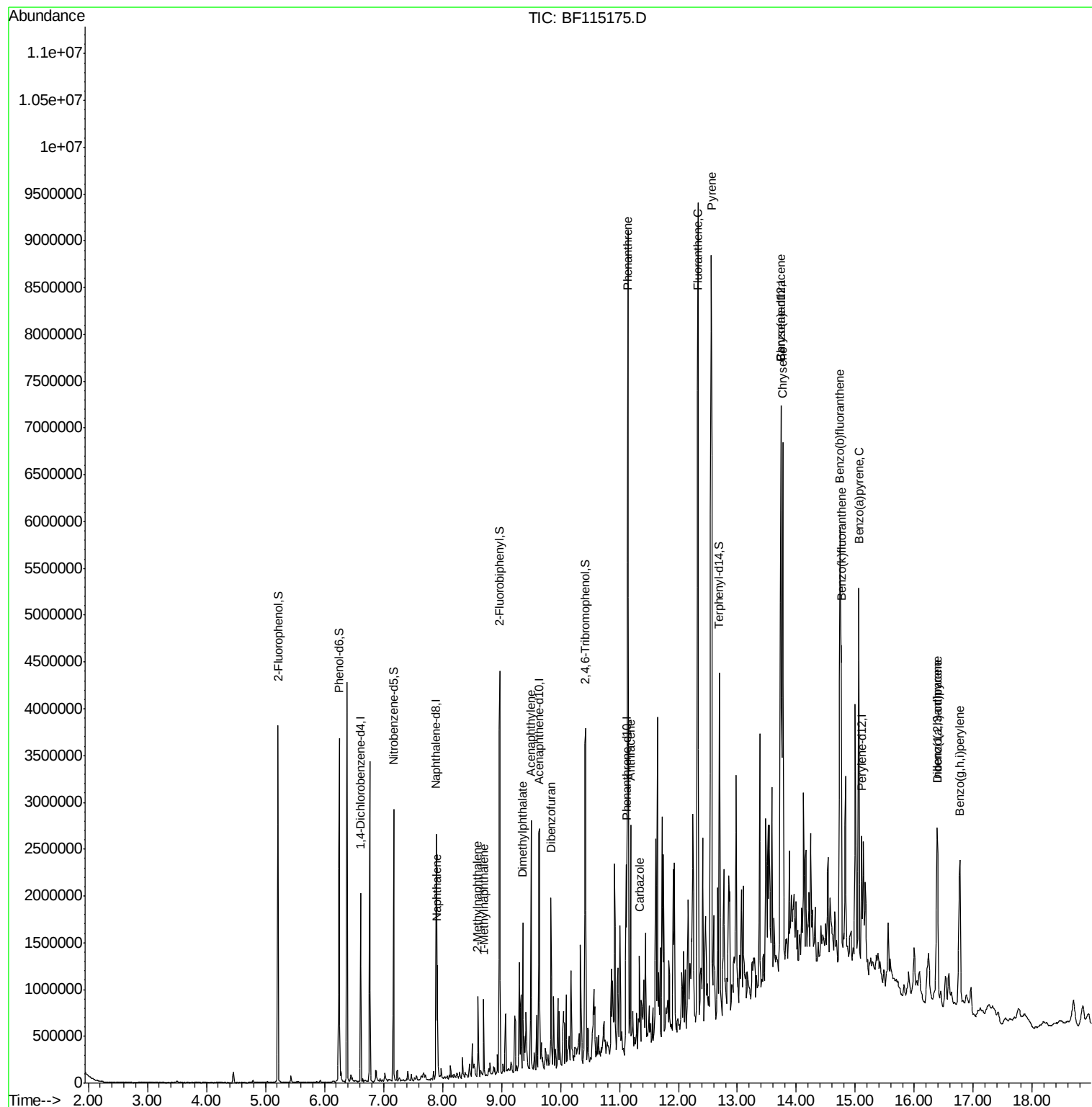
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115175.D
Acq On : 25 Jun 2019 3:54
Operator : HP/JU
Sample : K3482-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

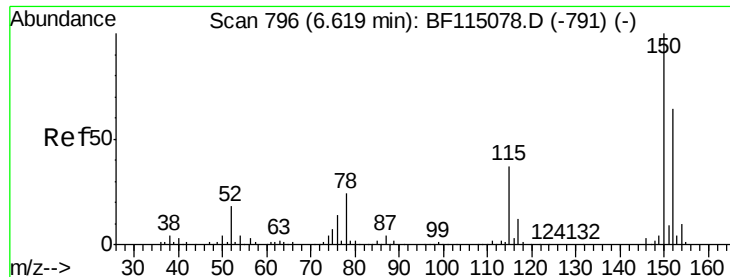
Instrument :
BNA_F
ClientSampled :
TP-4

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

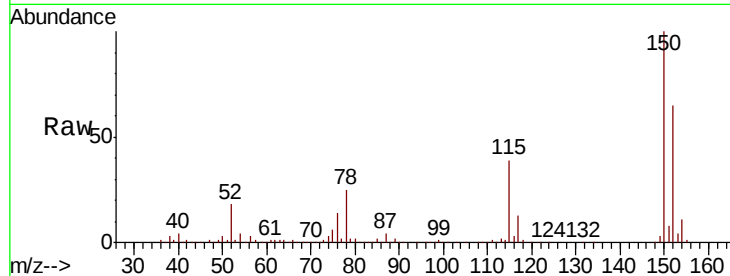
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.61 min Scan# 795
Delta R.T. -0.01 min
Lab File: BF115175.D
Acq: 25 Jun 2019 3:54

Instrument :
BNA_F
ClientSampleId :
TP-4

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.8	124.2	186.2
115	59.7	46.1	69.1

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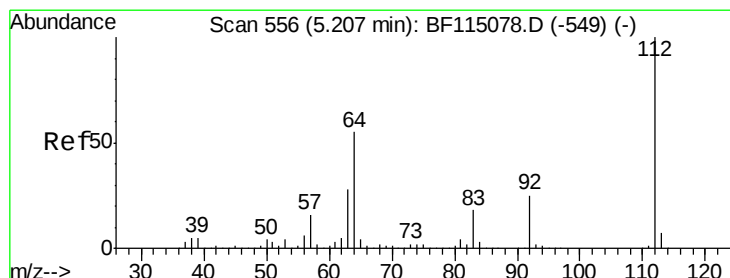
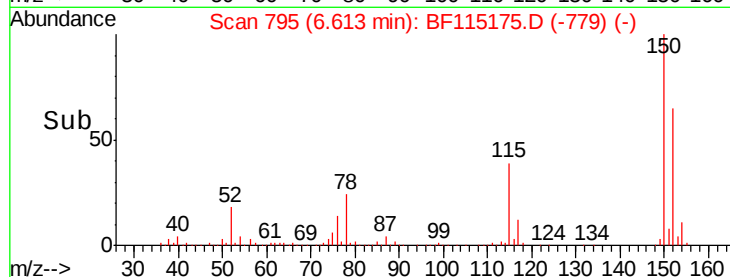
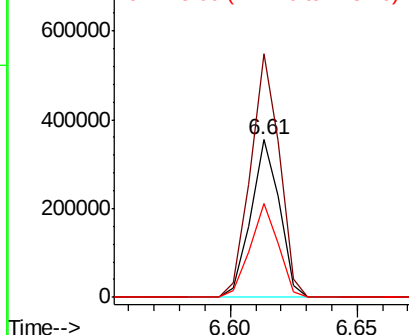


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

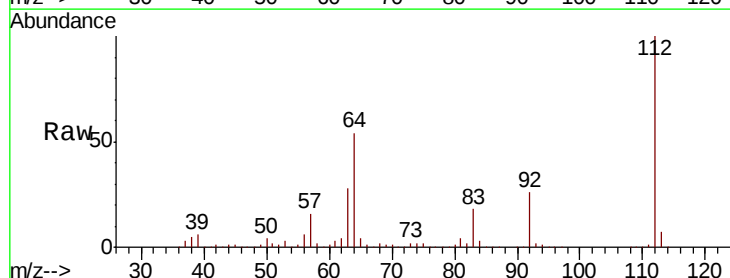
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 64.758 ng
RT: 5.21 min Scan# 557
Delta R.T. 0.01 min
Lab File: BF115175.D
Acq: 25 Jun 2019 3:54

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.4	43.8	65.6
63	27.7	22.2	33.4

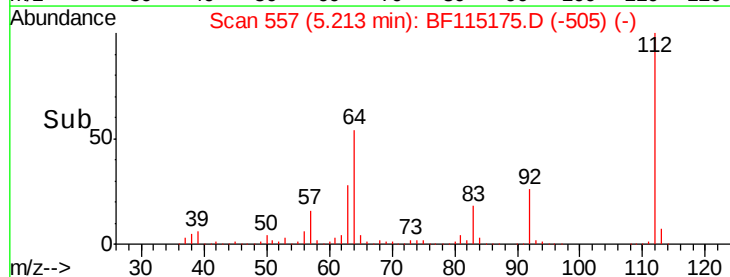
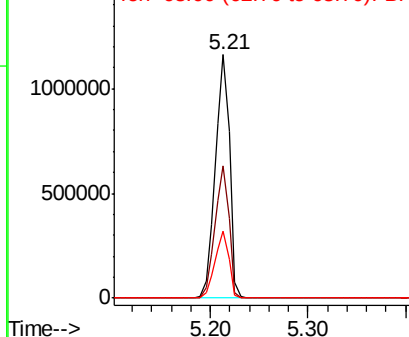


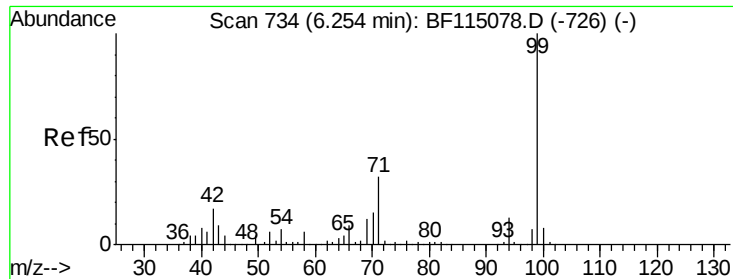
Abundance

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: 66.655 ng

RT: 6.25 min Scan# 734

Delta R.T. 0.00 min

Lab File: BF115175.D

Acq: 25 Jun 2019 3:54

Instrument :

BNA_F

ClientSampleId :

TP-4

Tot Ion: 99 Resp: 1468542

Ion Ratio Lower Upper

99 100

42 15.9 13.6 20.4

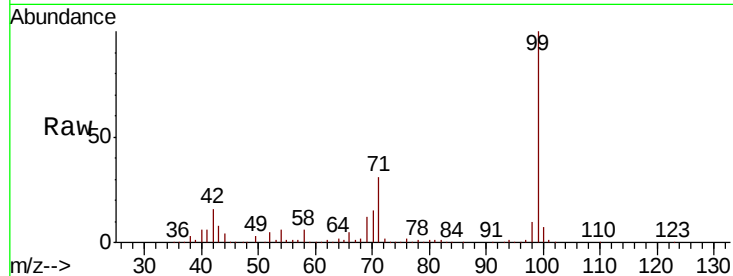
71 31.2 25.5 38.3

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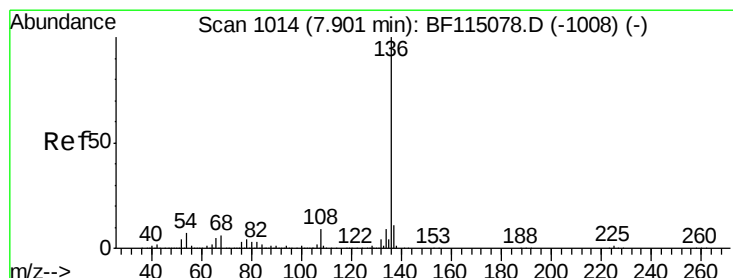
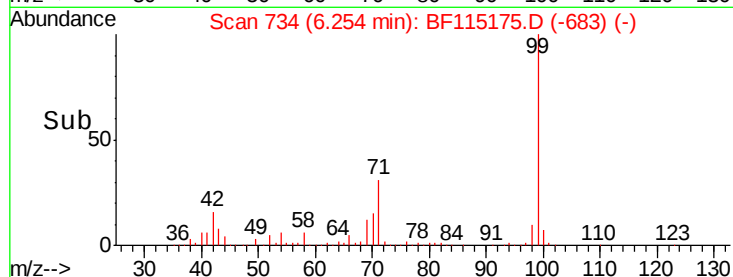
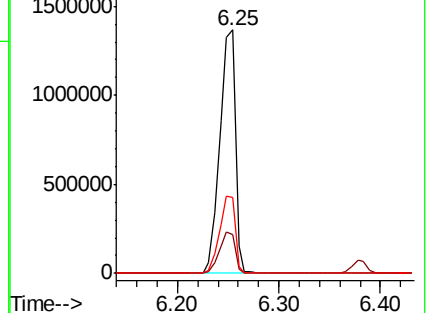
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Abundance Ion 99.00 (98.70 to 99.70): BF1

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: 7.90 min Scan# 1013

Delta R.T. -0.01 min

Lab File: BF115175.D

Acq: 25 Jun 2019 3:54

Tgt Ion: 136 Resp: 1069664

Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 6.6 5.6 8.4

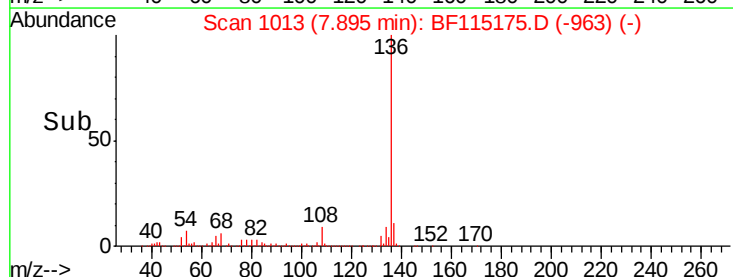
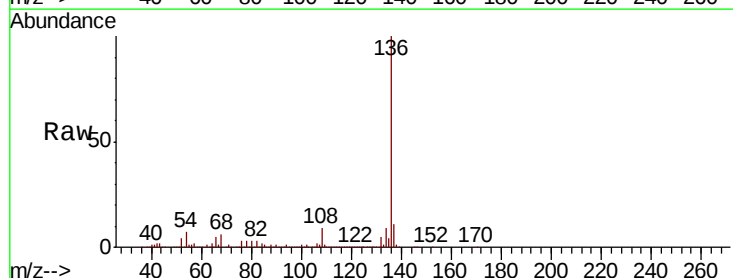
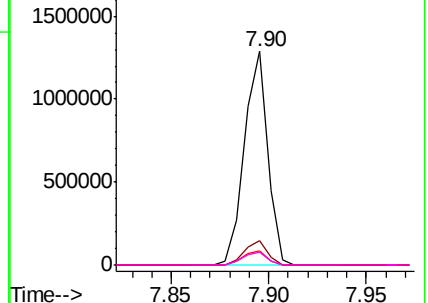
68 5.8 4.8 7.2

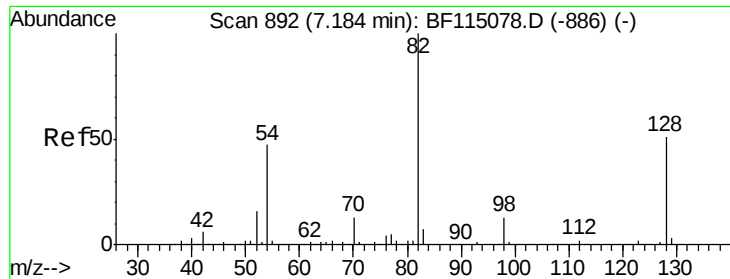
Abundance Ion 136.00 (135.70 to 136.70): E

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





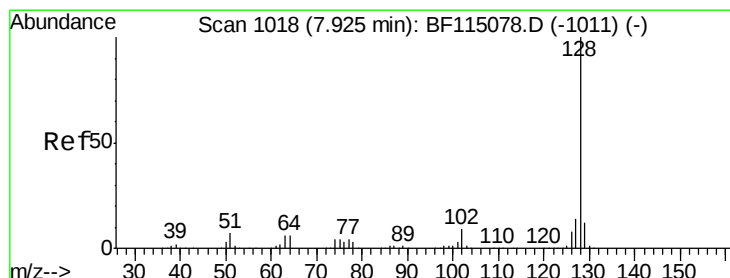
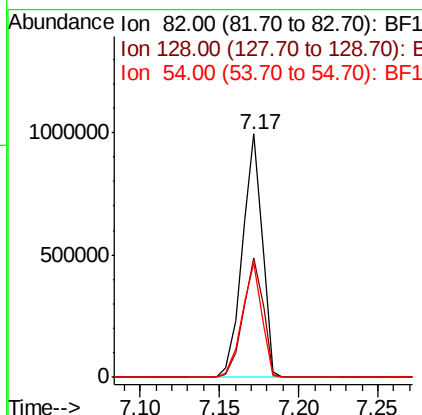
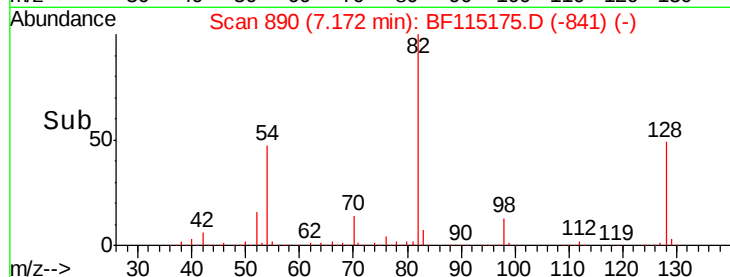
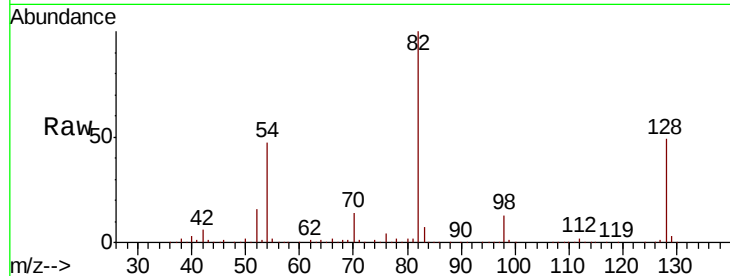
#23
Nitrobenzene-d5
Concen: 49.394 ng
RT: 7.17 min Scan# 890
Delta R.T. -0.01 min
Lab File: BF115175.D
Acq: 25 Jun 2019 3:54

Instrument :
BNA_F
ClientSampleId :
TP-4

Tot Ion	Ratio	Resp	Lower	Upper
82	100	858895		
128	49.3		40.4	60.6
54	47.1		37.5	56.3

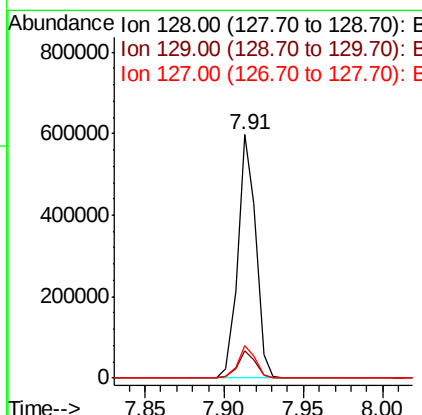
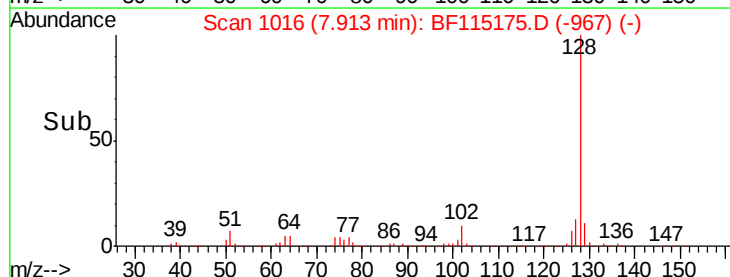
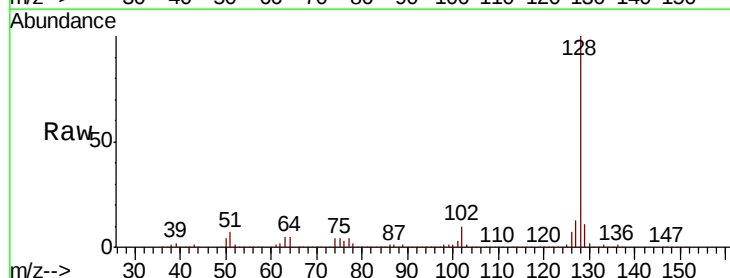
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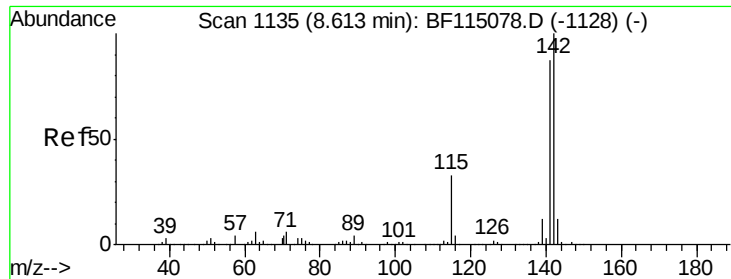
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#31
Naphthalene
Concen: 8.920 ng
RT: 7.91 min Scan# 1016
Delta R.T. -0.01 min
Lab File: BF115175.D
Acq: 25 Jun 2019 3:54

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	468350		
129	11.1		9.6	14.4
127	13.2		11.4	17.0





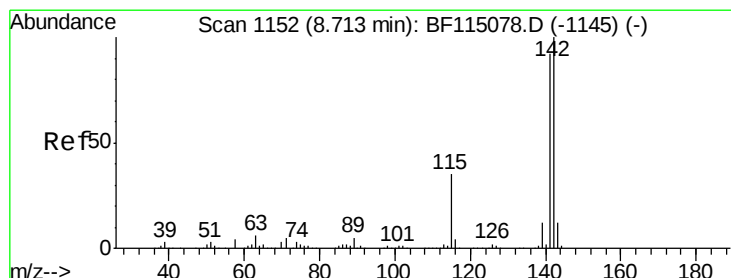
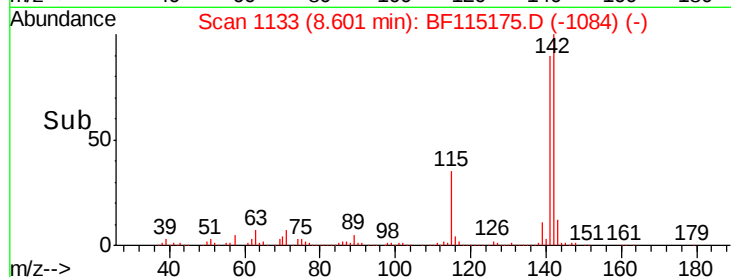
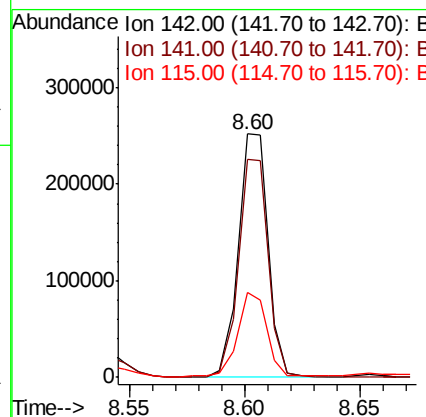
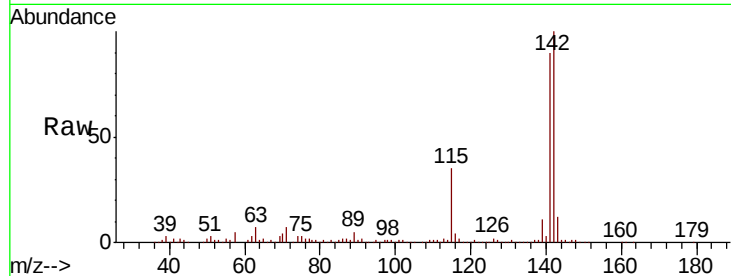
#37
2-Methylnaphthalene
Concen: 6.368 ng
RT: 8.60 min Scan# 1133
Delta R.T. -0.01 min
Lab File: BF115175.D
Acq: 25 Jun 2019 3:54

Instrument :
BNA_F
ClientSampleId :
TP-4

Tot Ion	Ratio	Resp	Lower	Upper
142	100	225462		
141	89.6	69.8	104.6	
115	34.8	26.7	40.1	

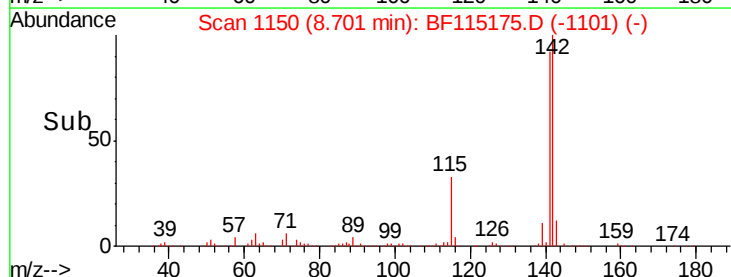
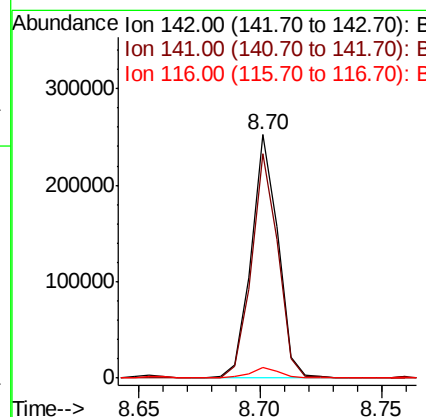
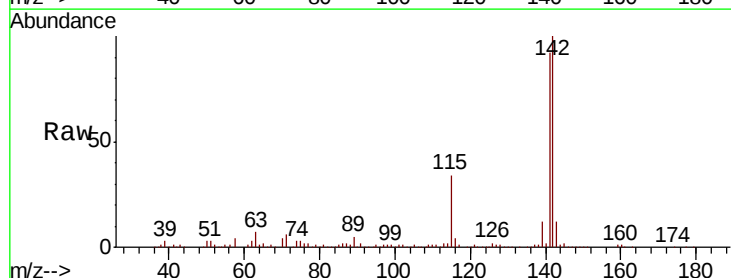
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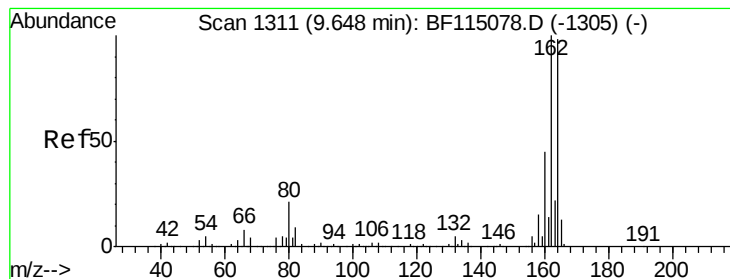
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#38
1-Methylnaphthalene
Concen: 5.795 ng m
RT: 8.70 min Scan# 1150
Delta R.T. -0.01 min
Lab File: BF115175.D
Acq: 25 Jun 2019 3:54

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	195939		
141	92.1	73.8	110.8	
116	4.2	2.8	4.2#	





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.64 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF115175.D

Acq: 25 Jun 2019 3:54

Instrument :

BNA_F

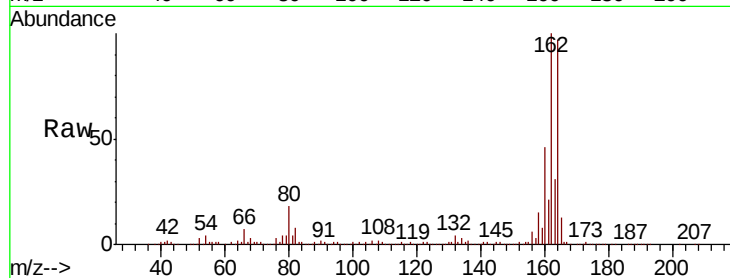
ClientSampleId :

TP-4

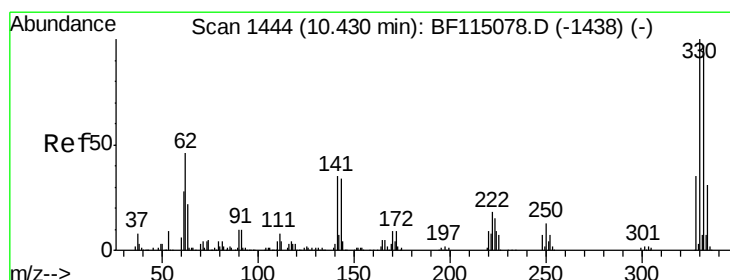
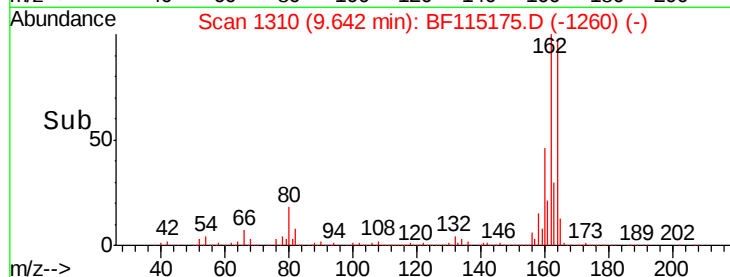
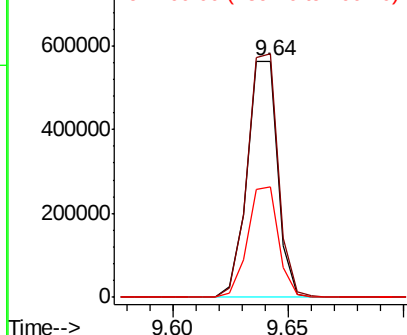
Tot Ion:	164	Resp:	524767
Ion Ratio	Lower	Upper	
164	100		
162	103.0	81.7	122.5
160	46.9	37.0	55.4

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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: 61.120 ng

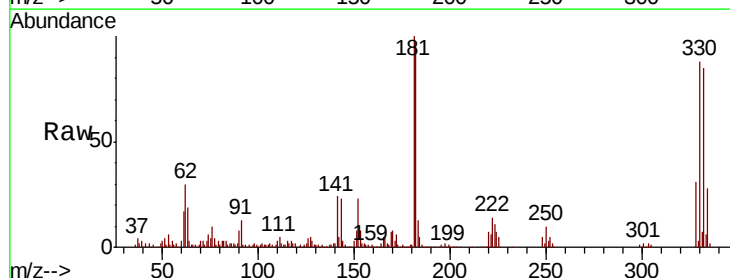
RT: 10.42 min Scan# 1443

Delta R.T. -0.01 min

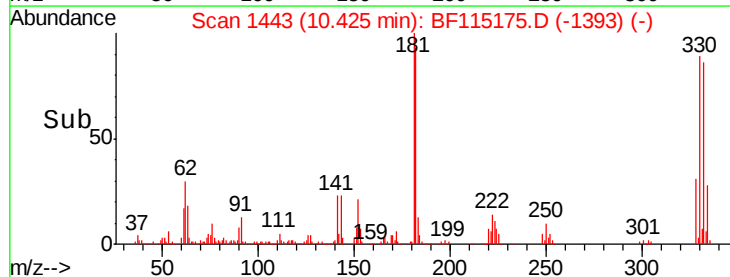
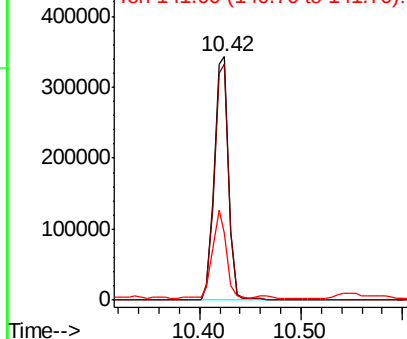
Lab File: BF115175.D

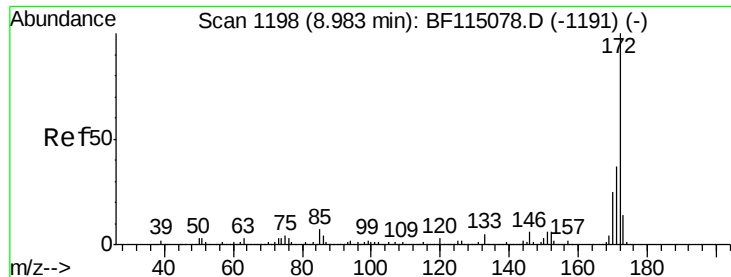
Acq: 25 Jun 2019 3:54

Tgt Ion:	330	Resp:	338228
Ion Ratio	Lower	Upper	
330	100		
332	96.6	77.3	115.9
141	34.5	28.2	42.2



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





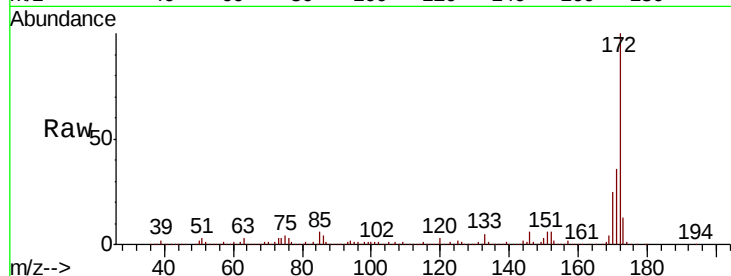
#45
2-Fluorobiphenyl
Concen: 41.494 ng
RT: 8.97 min Scan# 1196
Delta R.T. -0.01 min
Lab File: BF115175.D
Acq: 25 Jun 2019 3:54

Instrument :
BNA_F
ClientSampleId :
TP-4

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.8	44.6
170	24.8	20.3	30.5

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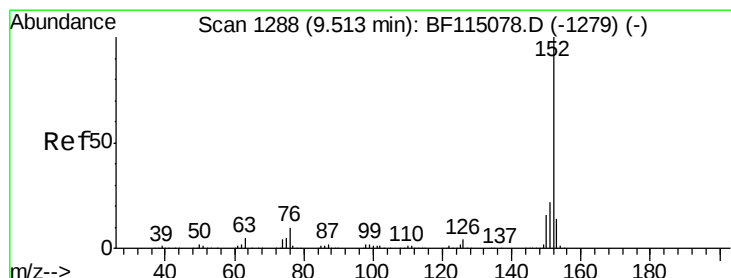
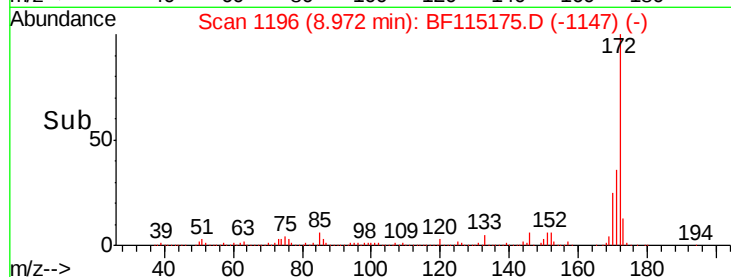
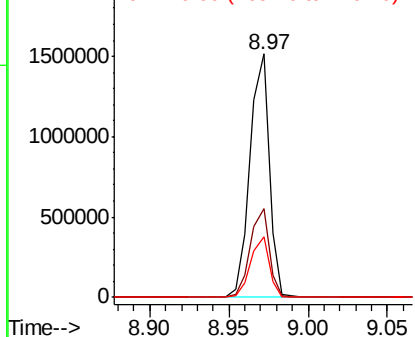


Abundance

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



#49
Acenaphthylene
Concen: 19.115 ng
RT: 9.50 min Scan# 1286
Delta R.T. -0.01 min
Lab File: BF115175.D
Acq: 25 Jun 2019 3:54

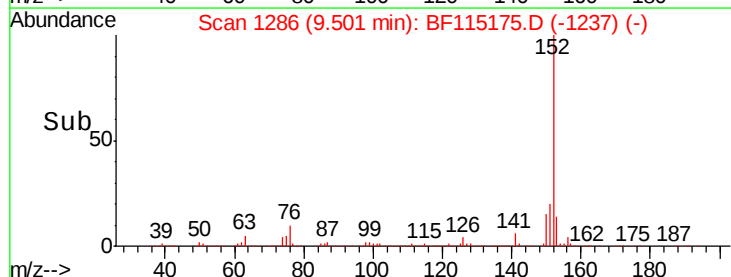
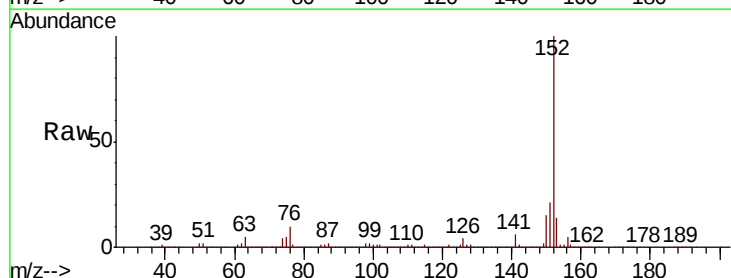
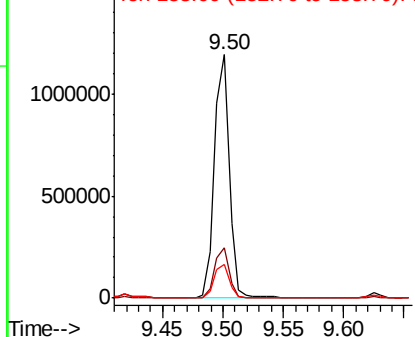
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.5	17.2	25.8
153	14.0	11.0	16.6

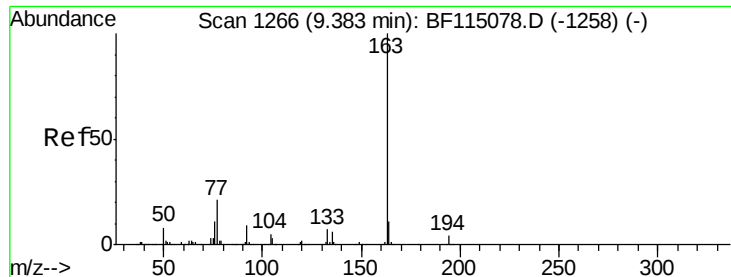
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





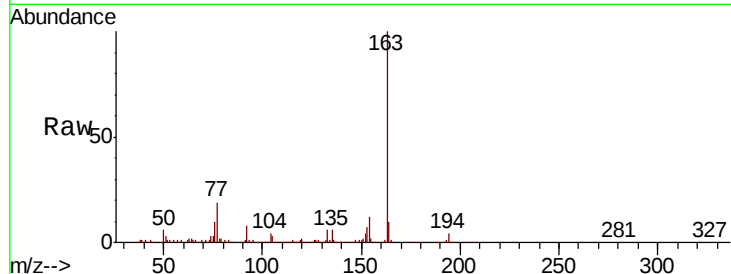
#50
Dimethylphthalate
Concen: 11.907 ng
RT: 9.37 min Scan# 1263
Delta R.T. -0.02 min
Lab File: BF115175.D
Acq: 25 Jun 2019 3:54

Instrument :
BNA_F
ClientSampleId :
TP-4

Tot Ion	Ion	Ratio	Resp	Lower	Upper
163	100		459719		
194	4.2		3.2	4.8	
164	10.1		8.6	13.0	

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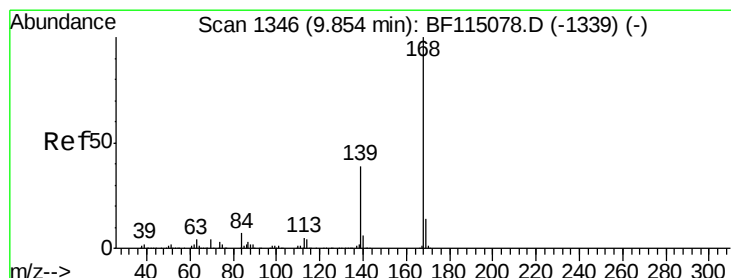
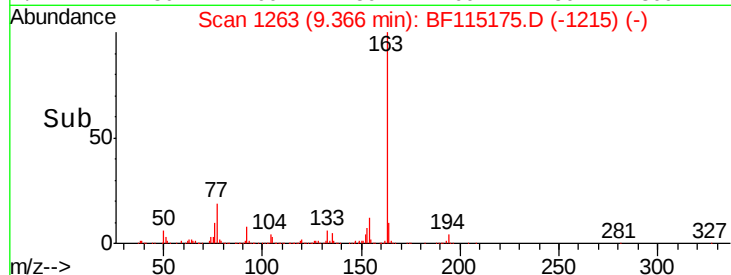
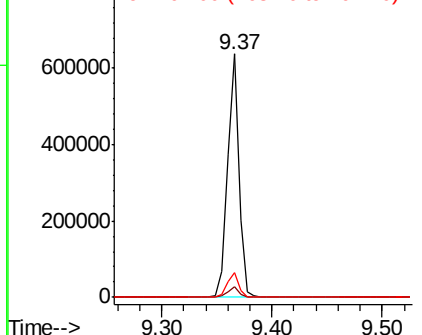


Abundance

Ion 163.00 (162.70 to 163.70): E

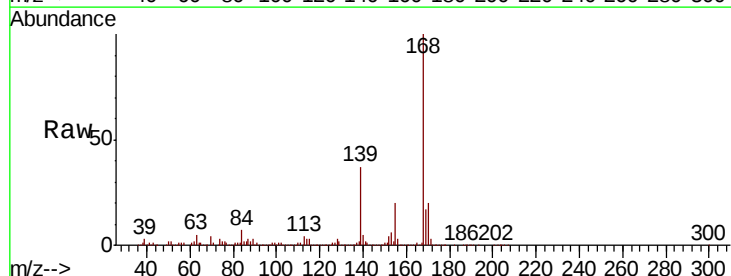
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#55
Dibenzofuran
Concen: 10.199 ng
RT: 9.84 min Scan# 1344
Delta R.T. -0.01 min
Lab File: BF115175.D
Acq: 25 Jun 2019 3:54

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
168	100		486069		
139	36.8		31.1	46.7	
169	16.9		11.3	16.9	

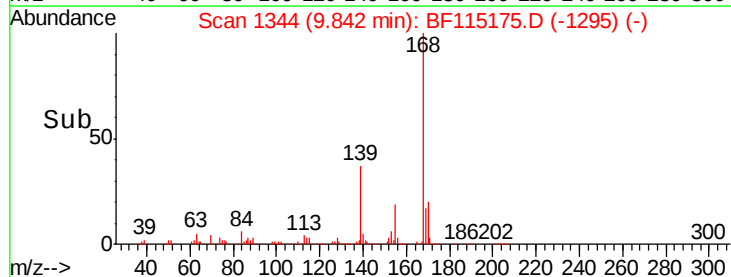
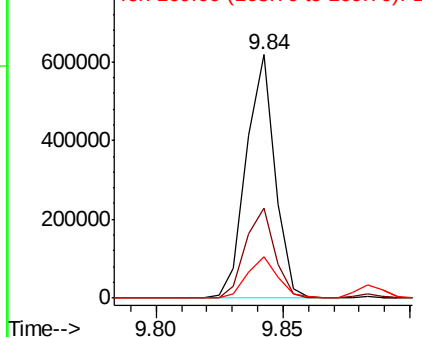


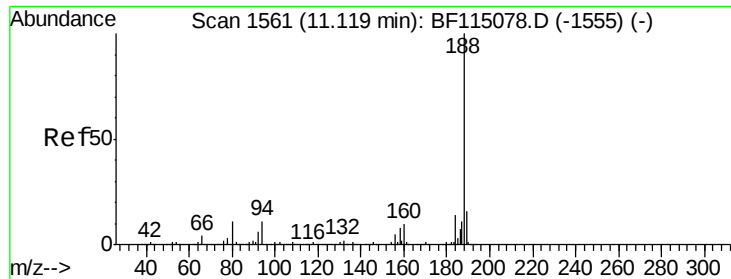
Abundance

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





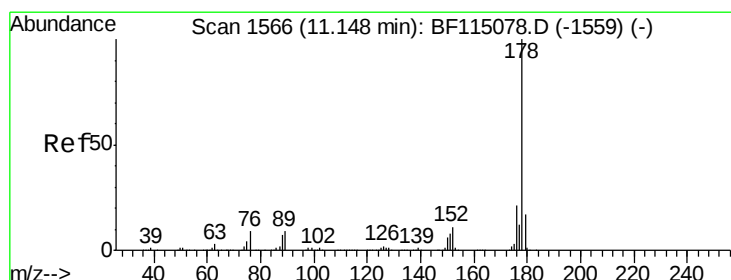
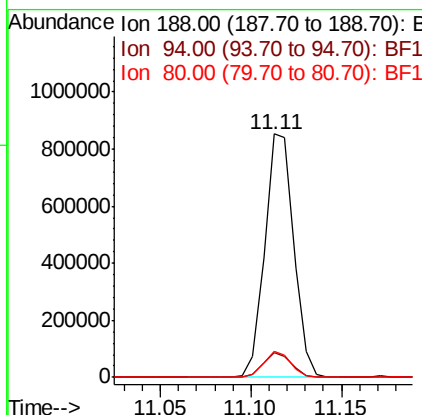
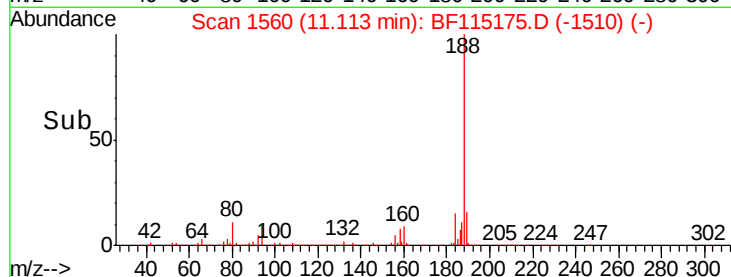
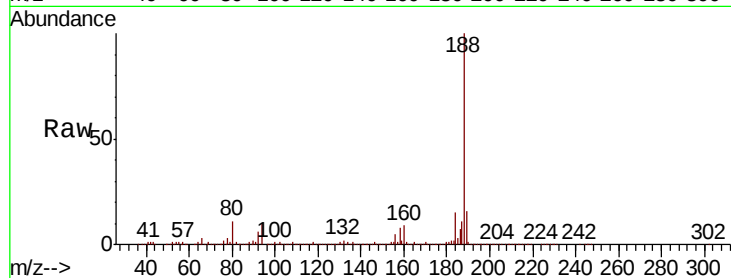
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.11 min Scan# 1560
Delta R.T. -0.01 min
Lab File: BF115175.D
Acq: 25 Jun 2019 3:54

Instrument :
BNA_F
ClientSampled :
TP-4

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	10.3	8.6	12.8
80	10.7	8.8	13.2

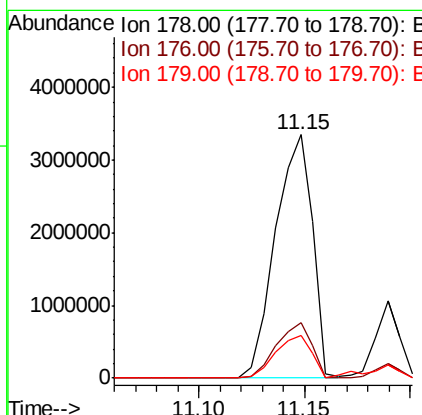
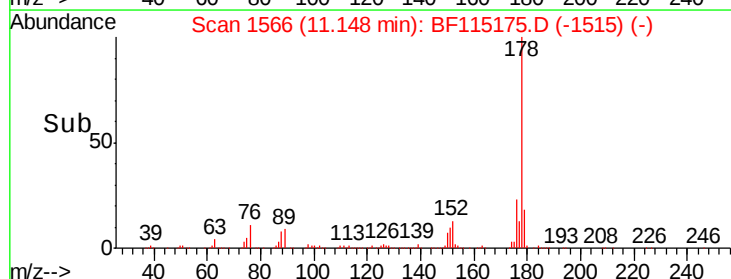
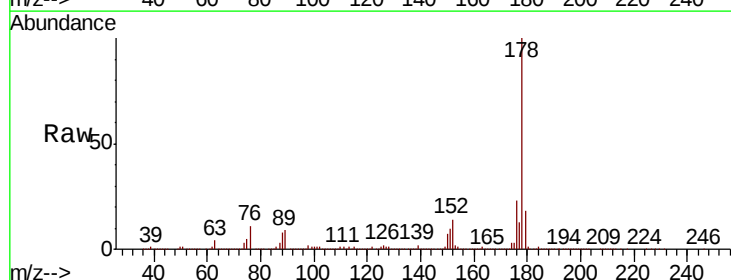
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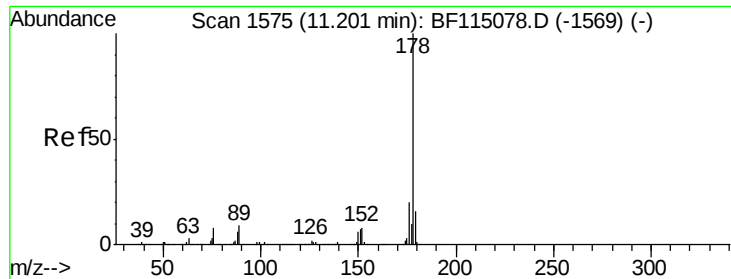
mohammad
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#71
Phenanthrene
Concen: 80.418 ng
RT: 11.15 min Scan# 1566
Delta R.T. 0.00 min
Lab File: BF115175.D
Acq: 25 Jun 2019 3:54

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	23.0	16.9	25.3
179	17.8	13.2	19.8





#72

Anthracene

Concen: 15.896 ng

RT: 11.19 min Scan# 1573

Delta R.T. -0.01 min

Lab File: BF115175.D

Acq: 25 Jun 2019 3:54

Instrument :

BNA_F

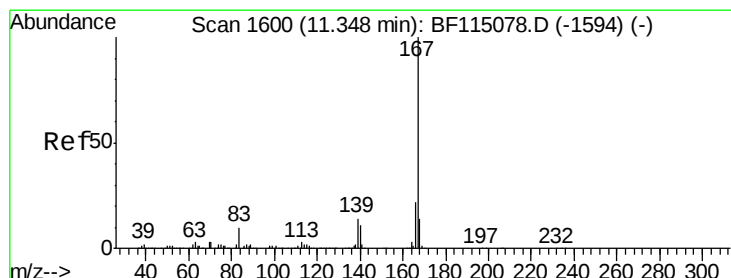
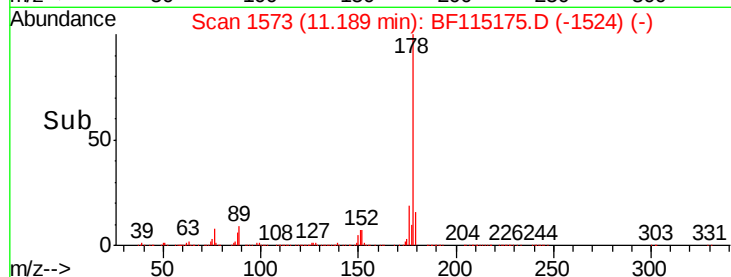
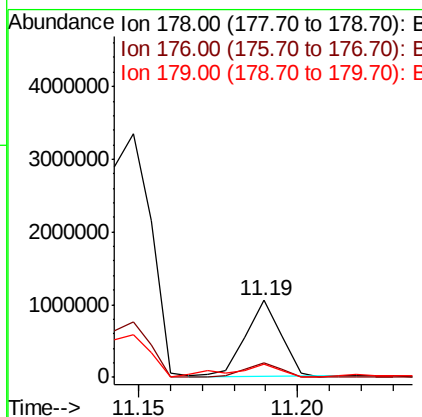
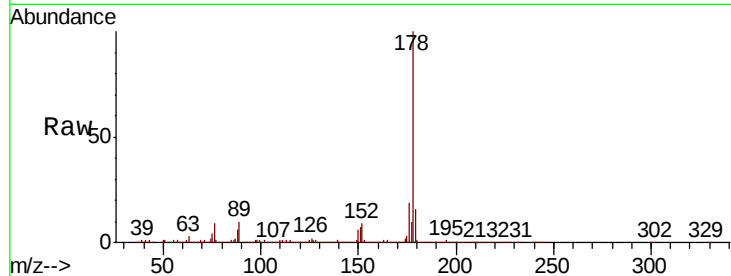
ClientSampleId :

TP-4

Tot Ion:	178	Resp:	816147
Ion Ratio	Lower	Upper	
178	100		
176	19.4	16.1	24.1
179	16.5	12.9	19.3

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#73

Carbazole

Concen: 8.339 ng

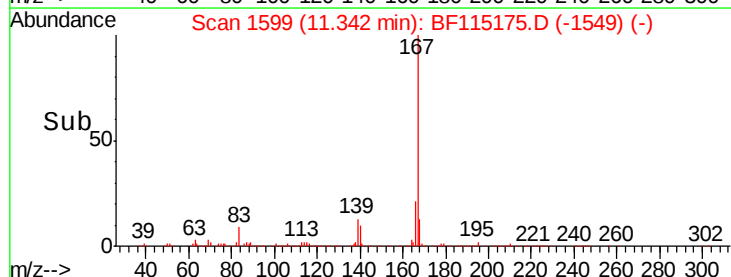
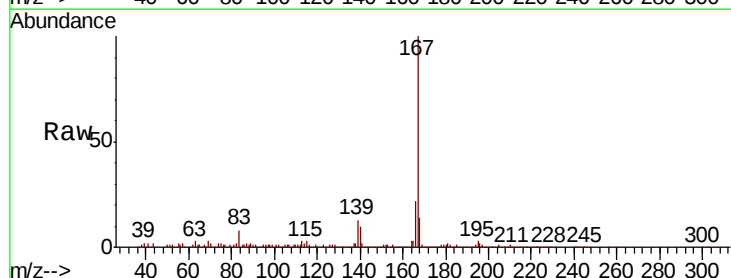
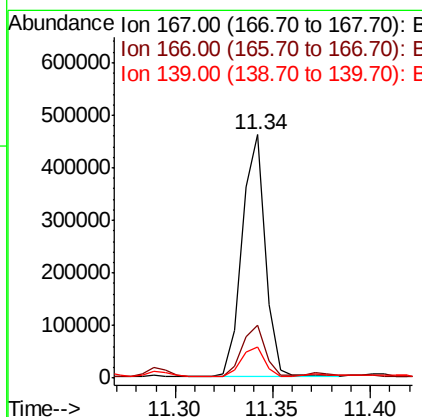
RT: 11.34 min Scan# 1599

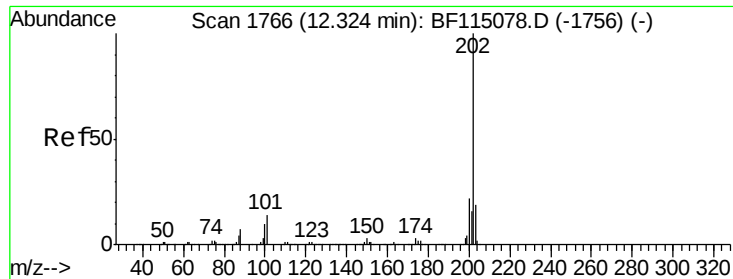
Delta R.T. -0.01 min

Lab File: BF115175.D

Acq: 25 Jun 2019 3:54

Tgt Ion:	167	Resp:	382351
Ion Ratio	Lower	Upper	
167	100		
166	21.9	18.0	27.0
139	13.0	11.1	16.7





#75

Fluoranthene

Concen: 98.029 ng

RT: 12.34 min Scan# 1768

Delta R.T. 0.01 min

Lab File: BF115175.D

Acq: 25 Jun 2019 3:54

Instrument :

BNA_F

ClientSampleId :

TP-4

Tot Ion:202 Resp: 4974958

Ion Ratio Lower Upper

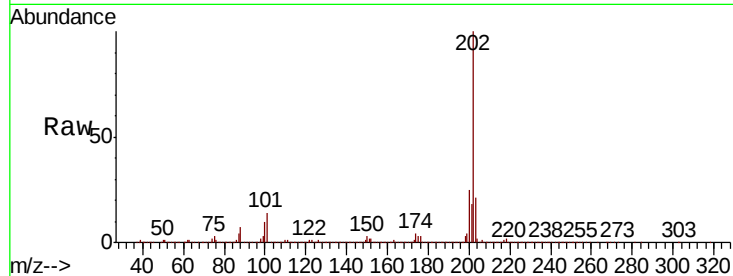
202 100

101 13.7 0.0 34.0

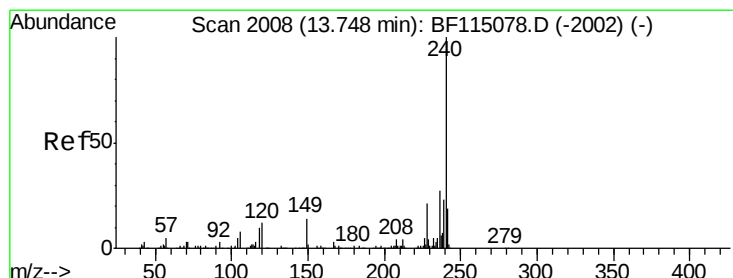
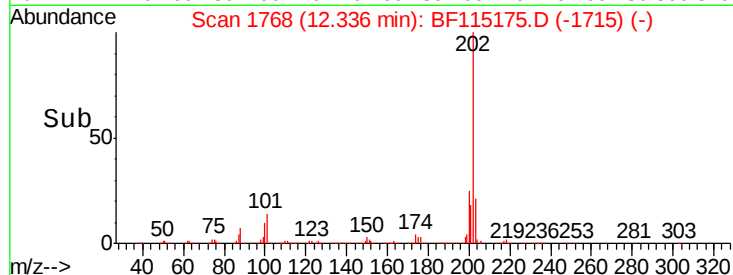
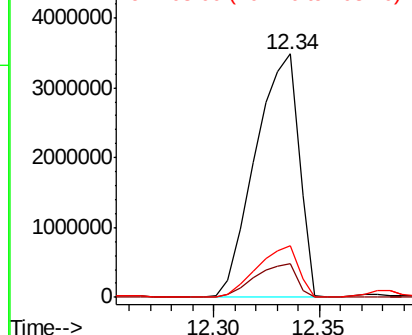
203 21.0 0.0 38.8

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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: 13.74 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF115175.D

Acq: 25 Jun 2019 3:54

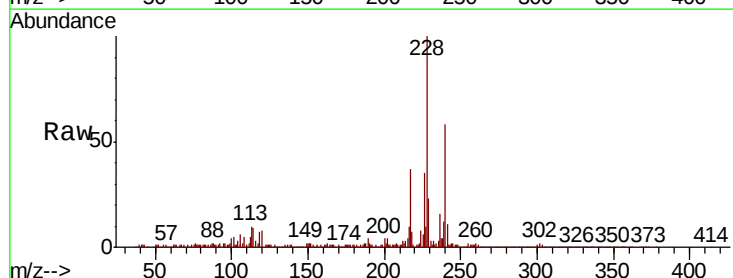
Tgt Ion:240 Resp: 530961

Ion Ratio Lower Upper

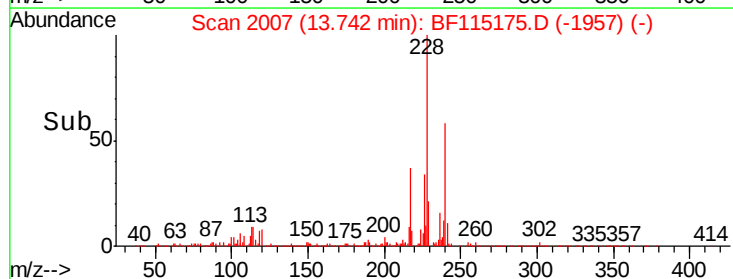
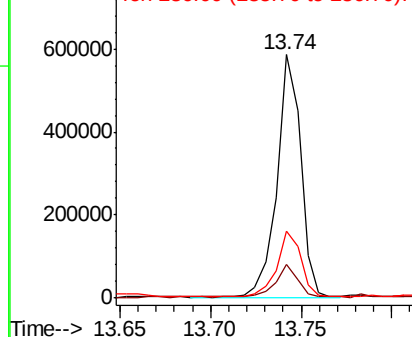
240 100

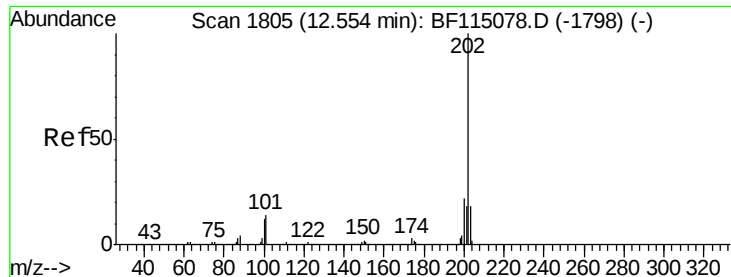
120 13.7 9.4 14.2

236 27.4 21.7 32.5



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: 117.342 ng

RT: 12.56 min Scan# 1806

Delta R.T. 0.01 min

Lab File: BF115175.D

Acq: 25 Jun 2019 3:54

Instrument :

BNA_F

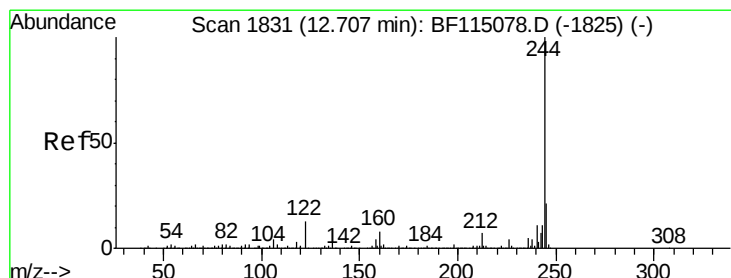
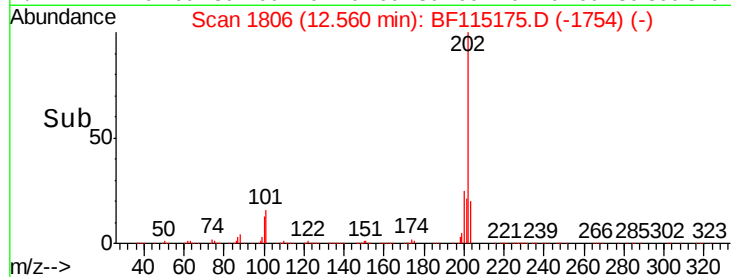
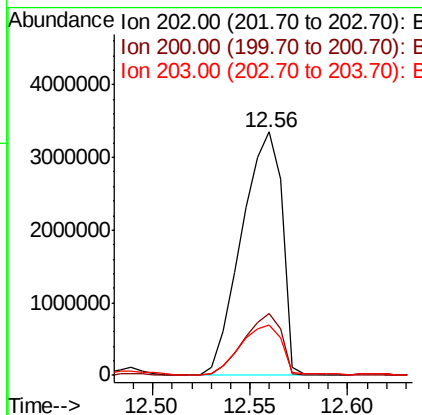
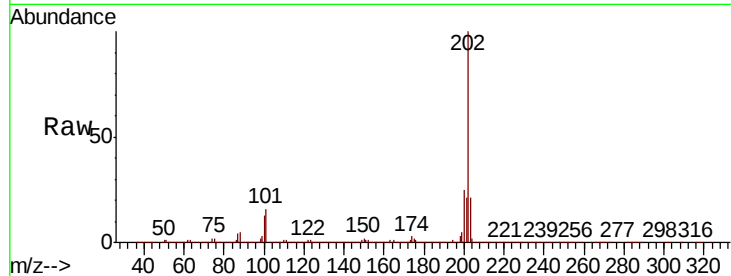
ClientSampleId :

TP-4

Tot Ion:	202	Resp:	4788104
Ion	Ratio	Lower	Upper
202	100		
200	25.3	17.9	26.9
203	20.7	14.6	21.8

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#79

Terphenyl-d14

Concen: 43.227 ng

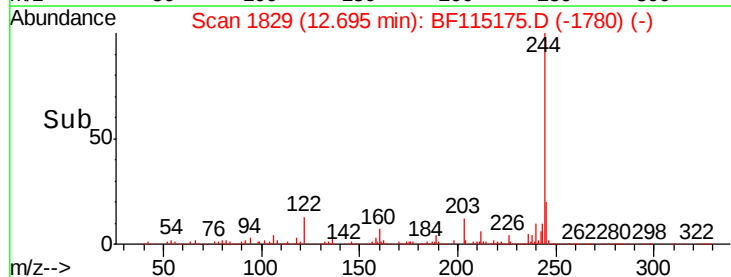
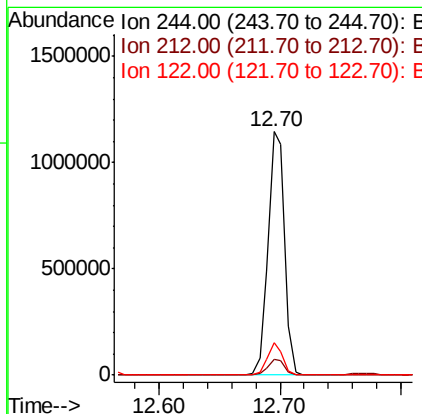
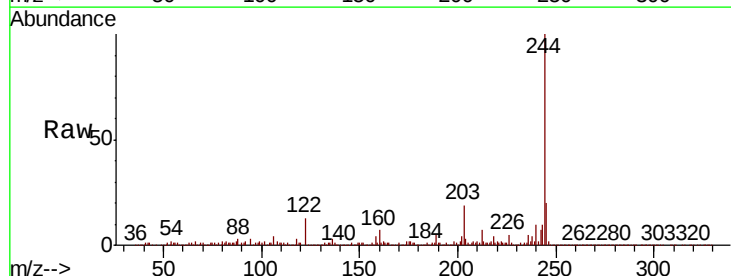
RT: 12.70 min Scan# 1829

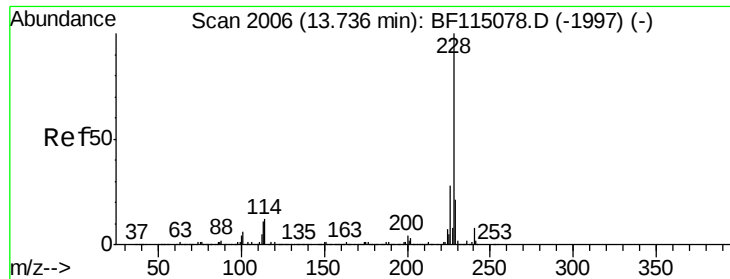
Delta R.T. -0.01 min

Lab File: BF115175.D

Acq: 25 Jun 2019 3:54

Tgt Ion:	244	Resp:	1079510
Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.8	8.6
122	13.3	10.4	15.6





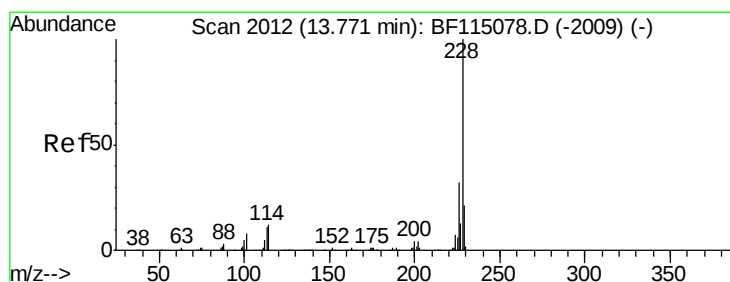
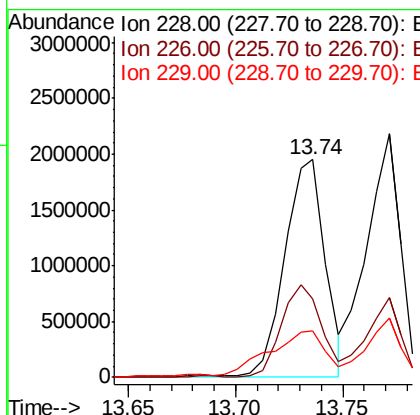
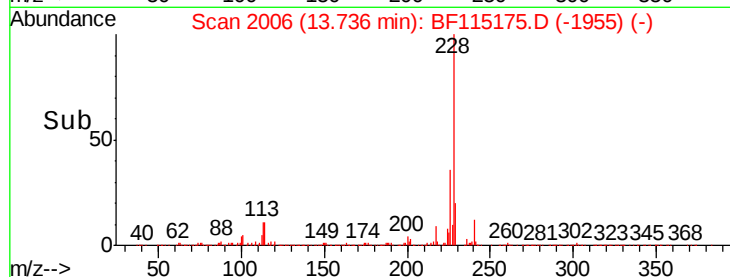
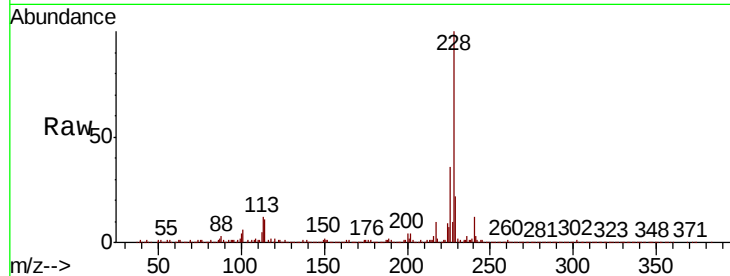
#81
Benzo(a)anthracene
Concen: 68.220 ng m
RT: 13.74 min Scan# 2006
Delta R.T. 0.00 min
Lab File: BF115175.D
Acq: 25 Jun 2019 3:54

Instrument :
BNA_F
ClientSampled :
TP-4

Tot Ion:228 Resp: 2599043
Ion Ratio Lower Upper
228 100
226 36.3 22.5 33.7#
229 21.5 16.6 24.8

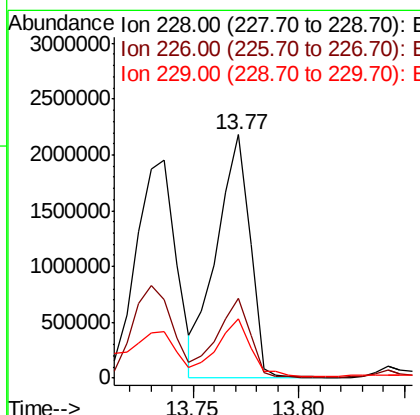
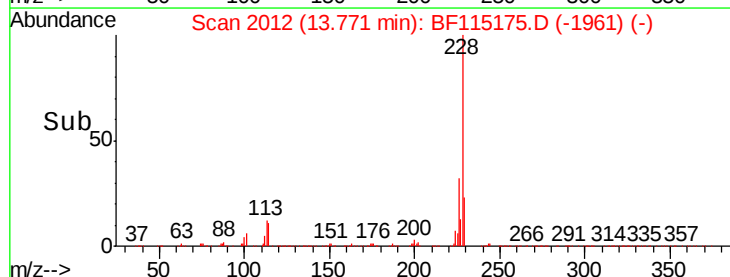
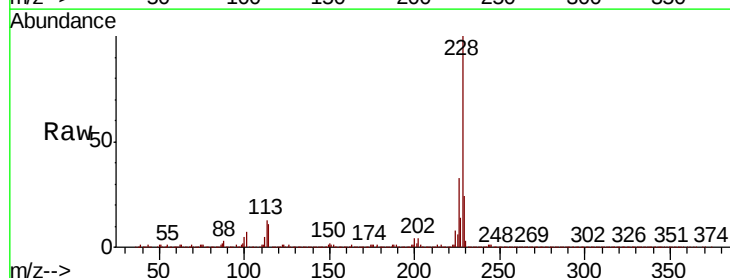
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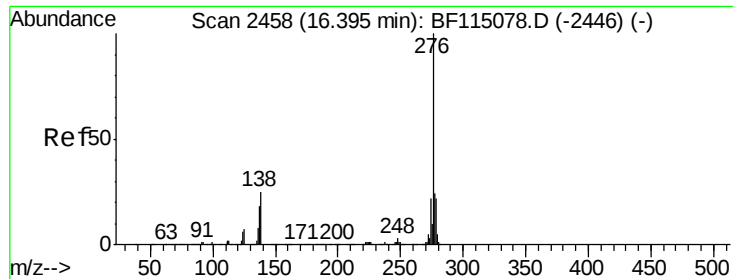
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#83
Chrysene
Concen: 68.171 ng
RT: 13.77 min Scan# 2012
Delta R.T. 0.00 min
Lab File: BF115175.D
Acq: 25 Jun 2019 3:54

Tgt Ion:228 Resp: 2379077
Ion Ratio Lower Upper
228 100
226 32.7 25.4 38.0
229 24.2 16.5 24.7





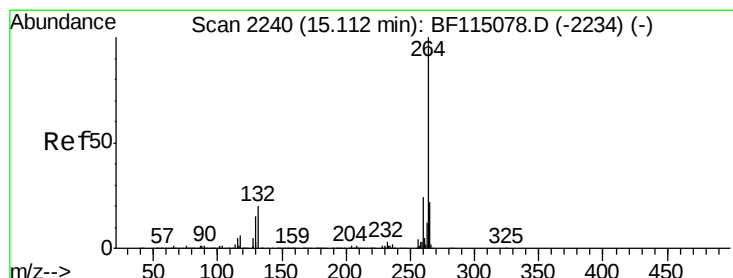
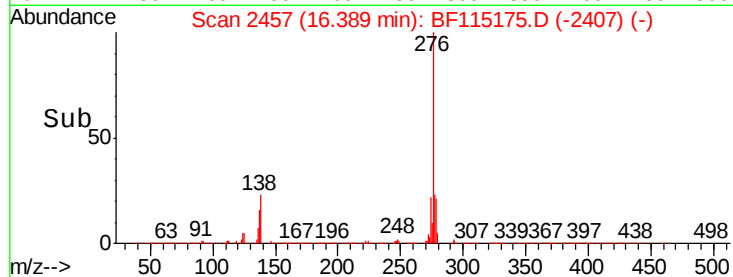
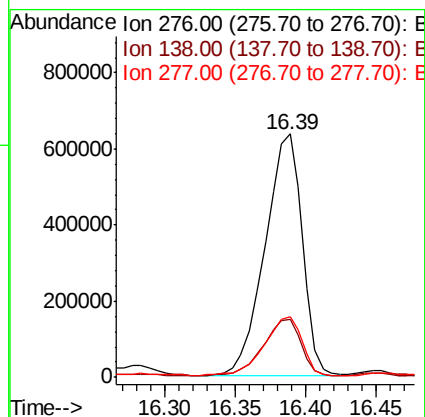
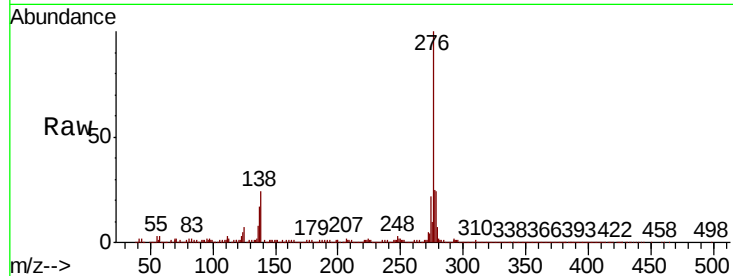
#86
Indeno(1,2,3-cd)pyrene
Concen: 28.376 ng
RT: 16.39 min Scan# 2457
Delta R.T. -0.01 min
Lab File: BF115175.D
Acq: 25 Jun 2019 3:54

Instrument :
BNA_F
ClientSampleId :
TP-4

Tot Ion	Ratio	Lower	Upper
276	100		
138	24.0	23.2	34.8
277	24.9	20.1	30.1

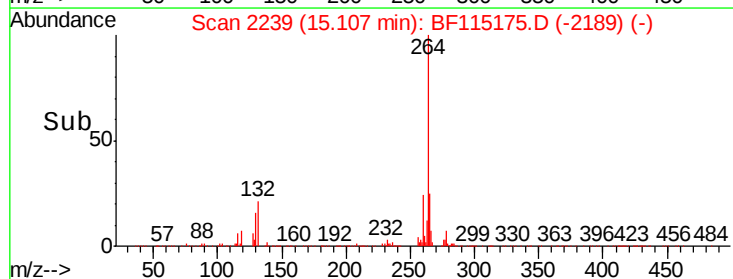
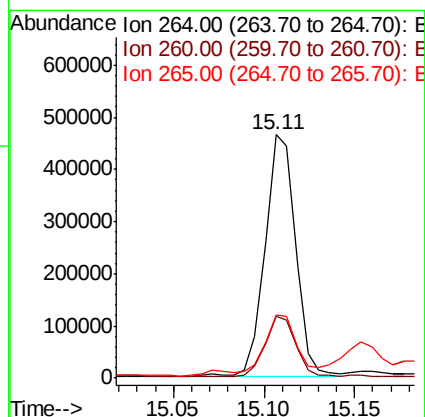
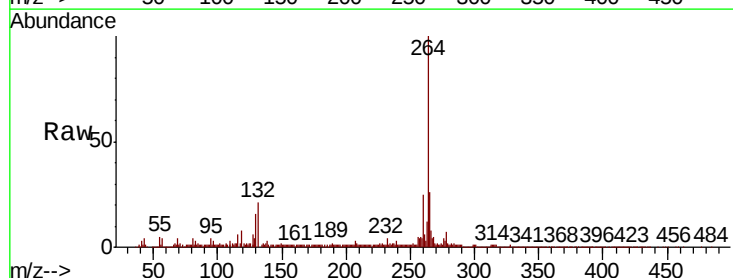
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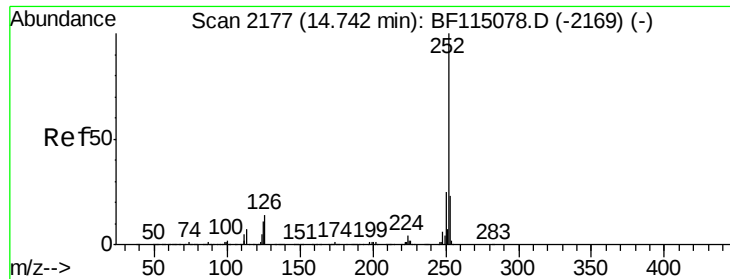
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#87
Perylene-d12
Concen: 20.000 ng
RT: 15.11 min Scan# 2239
Delta R.T. -0.01 min
Lab File: BF115175.D
Acq: 25 Jun 2019 3:54

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.2	19.6	29.4
265	25.8	17.3	25.9





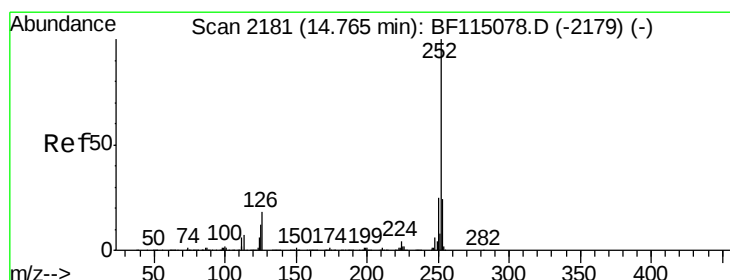
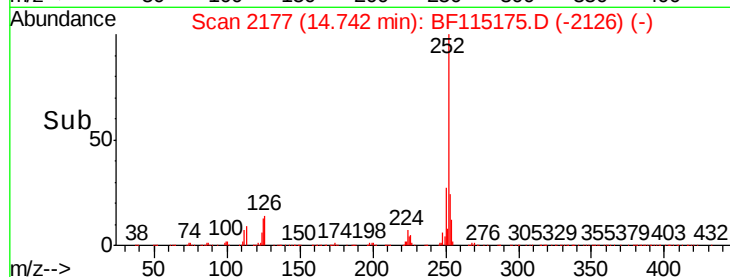
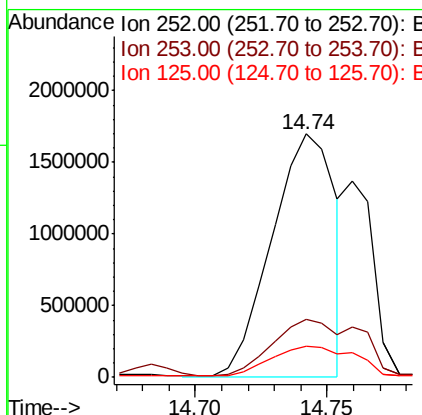
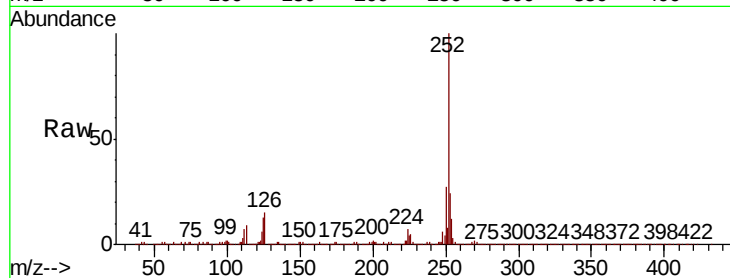
#88
Benzo(b)fluoranthene
Concen: 82.794 ng m
RT: 14.74 min Scan# 2177
Delta R.T. 0.00 min
Lab File: BF115175.D
Acq: 25 Jun 2019 3:54

Instrument :
BNA_F
ClientSampleId :
TP-4

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.1	27.1
125	13.0	8.7	13.1

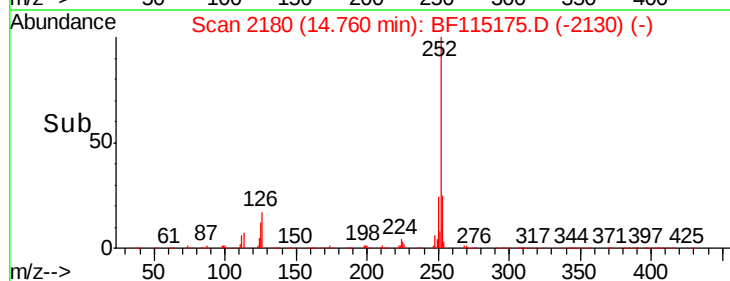
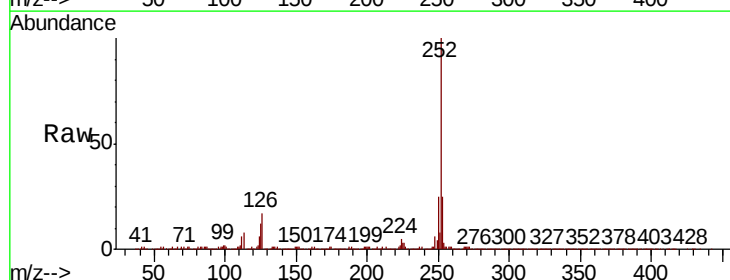
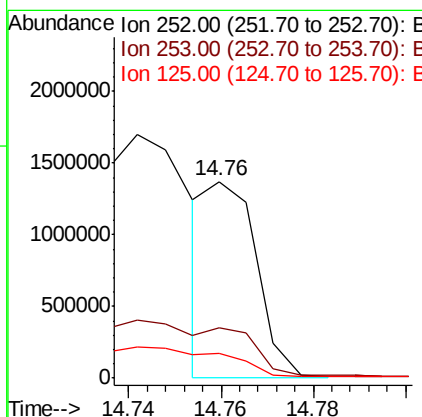
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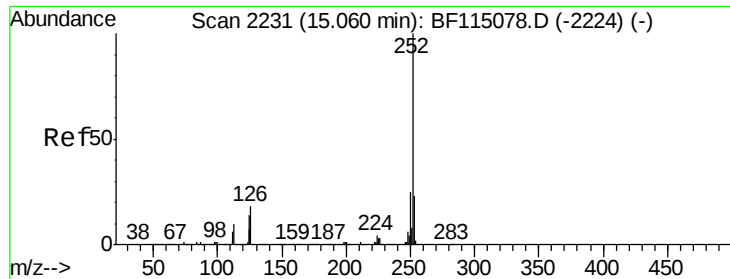
mohammad
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#89
Benzo(k)fluoranthene
Concen: 33.030 ng m
RT: 14.76 min Scan# 2180
Delta R.T. -0.01 min
Lab File: BF115175.D
Acq: 25 Jun 2019 3:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.3	18.9	28.3
125	12.4	10.2	15.2





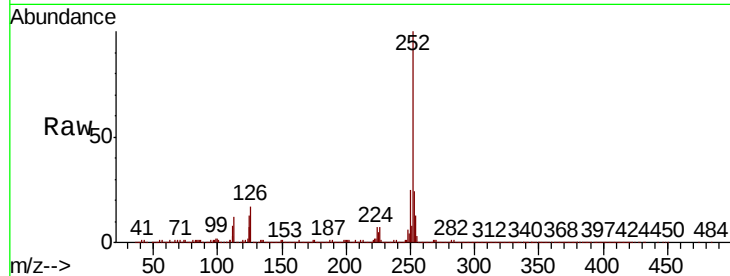
#90
Benzo(a)pyrene
Concen: 62.573 ng
RT: 15.06 min Scan# 2231
Delta R.T. 0.00 min
Lab File: BF115175.D
Acq: 25 Jun 2019 3:54

Instrument :
BNA_F
ClientSampleId :
TP-4

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.3	27.5
125	13.1	10.9	16.3

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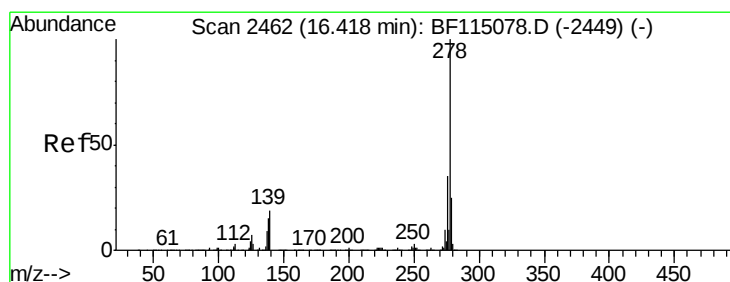
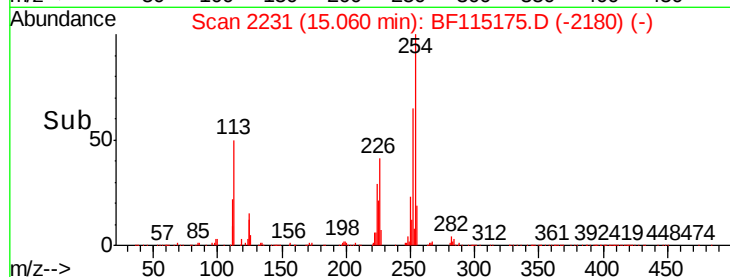
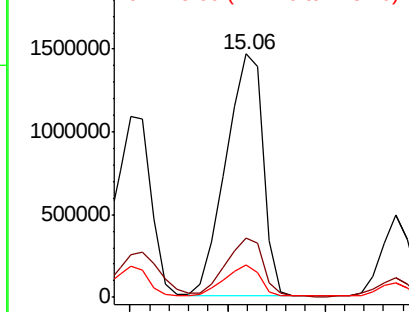


Abundance

Ion 252.00 (251.70 to 252.70): E

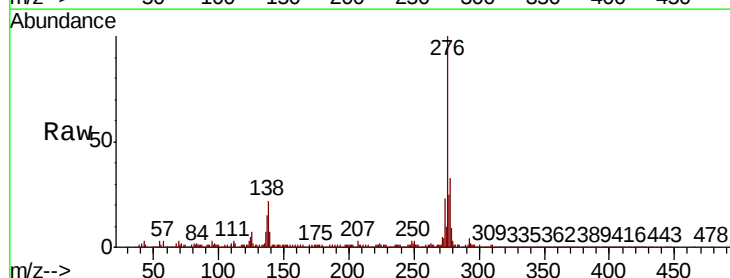
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91
Dibenzo(a,h)anthracene
Concen: 9.296 ng
RT: 16.39 min Scan# 2458
Delta R.T. -0.02 min
Lab File: BF115175.D
Acq: 25 Jun 2019 3:54

Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.1	15.4	23.2
279	27.5	19.9	29.9

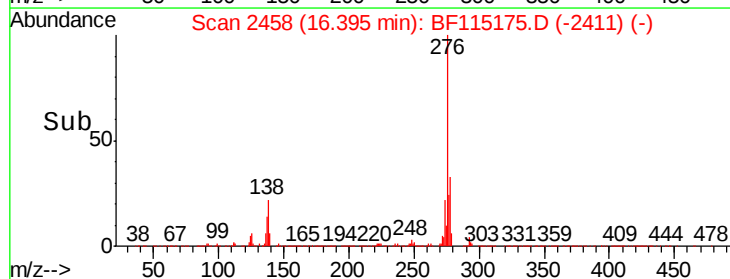
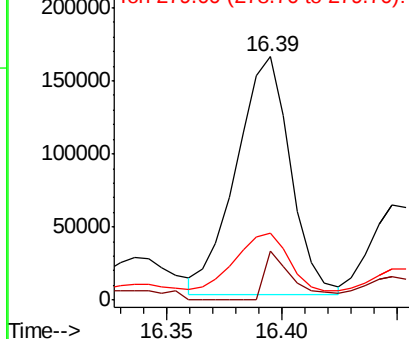


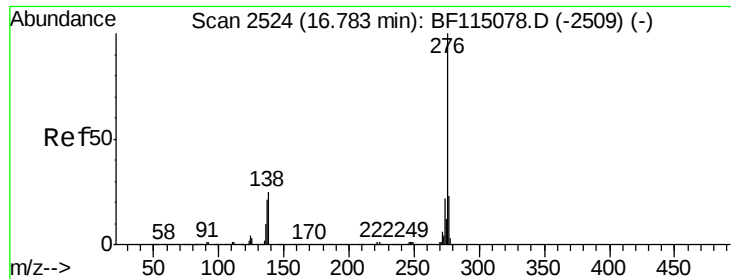
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92
 Benzo(a,h,i)perylene
 Concen: 42.545 ng
 RT: 16.77 min Scan# 2522
 Delta R.T. -0.01 min
 Lab File: BF115175.D
 Acq: 25 Jun 2019 3:54

Instrument :
 BNA_F
 ClientSampleId :
 TP-4

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
277	24.4	18.6	28.0	
138	24.5	19.8	29.6	

Manual Integrations
 APPROVED

mohammad
 6/28/2019 8:25:33 AM

