

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071819\
 Data File : BF115653.D
 Acq On : 18 Jul 2019 17:51
 Operator : HP/JU
 Sample : K3875-04
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HJDC-S4

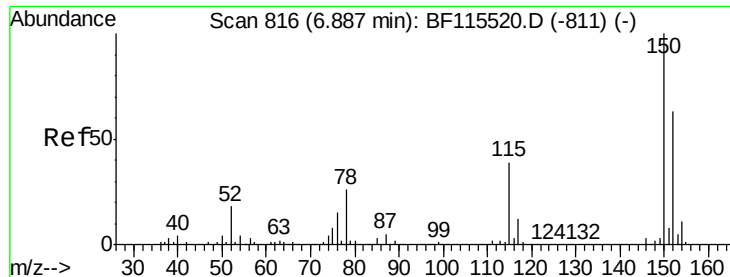
Manual Integrations
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 7/19/2019 3:58:34 PM

Quant Time: Jul 19 07:50:33 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 12 14:03:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	147598	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	578249	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	254231	20.00	ng	-0.01
64) Phenanthrene-d10	11.40	188	422316	20.00	ng	0.00
76) Chrysene-d12	14.04	240	326693	20.00	ng	-0.01
87) Perylene-d12	15.51	264	339726	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.51	112	856640	94.93	ng	0.00
7) Phenol-d6	6.52	99	1082466	94.54	ng	0.00
23) Nitrobenzene-d5	7.44	82	666415	67.01	ng	-0.01
42) 2,4,6-Tribromophenol	10.70	330	234593	79.05	ng	-0.01
45) 2-Fluorobiphenyl	9.24	172	938624	64.62	ng	-0.01
79) Terphenyl-d14	12.98	244	735937	41.57	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.19	128	218241	7.793	ng	95
37) 2-Methylnaphthalene	8.87	142	68227	3.675	ng	95
38) 1-Methylnaphthalene	8.97	142	54436	3.087	ng	98
50) Dimethylphthalate	9.63	163	157925	8.256	ng	# 97
52) Acenaphthene	9.95	154	105560	6.668	ng	99
55) Dibenzofuran	10.12	168	105823m	4.707	ng	
58) Fluorene	10.46	166	164003	10.204	ng	97
71) Phenanthrene	11.43	178	1209893	55.891	ng	97
72) Anthracene	11.47	178	332794	14.876	ng	99
73) Carbazole	11.63	167	134468	6.854	ng	99
75) Fluoranthene	12.62	202	1354252	59.200	ng	98
78) Pylene	12.84	202	1292456	46.695	ng	98
81) Benzo(a)anthracene	14.03	228	757654	35.203	ng	98
83) Chrysene	14.06	228	668335	30.933	ng	96
84) Bis(2-ethylhexyl)phthalate	14.02	149	45743	3.130	ng	98
86) Indeno(1,2,3-cd)pyrene	16.98	276	254335	13.856	ng	96
88) Benzo(b)fluoranthene	15.08	252	715636m	32.714	ng	
89) Benzo(k)fluoranthene	15.10	252	240496m	12.331	ng	
90) Benzo(a)pyrene	15.44	252	518180	27.560	ng	# 95
91) Dibenzo(a,h)anthracene	16.99	278	66715	4.042	ng	# 88
92) Benzo(g,h,i)perylene	17.43	276	222236	13.500	ng	97

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



#1

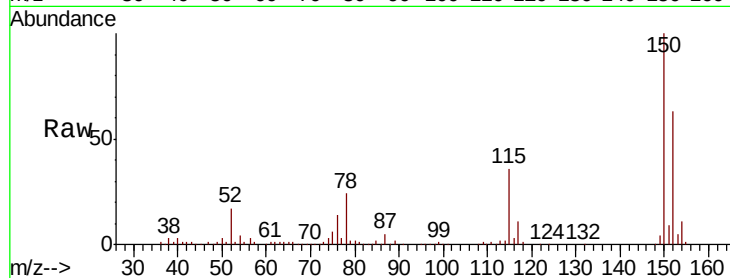
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 816
Delta R.T. -0.00 min
Lab File: BF115653.D
Acq: 18 Jul 2019 17:51

Instrument :
BNA_F
ClientSampleId :
HJDC-S4

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.9	129.7	194.5
115	58.0	48.2	72.4

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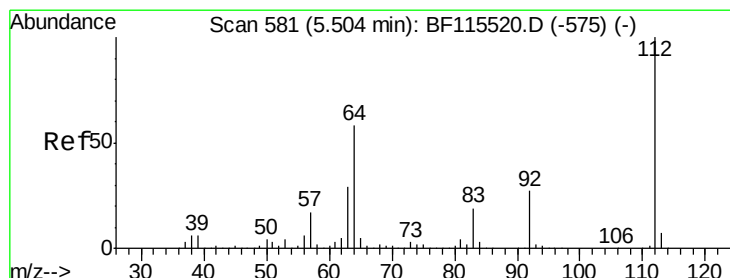
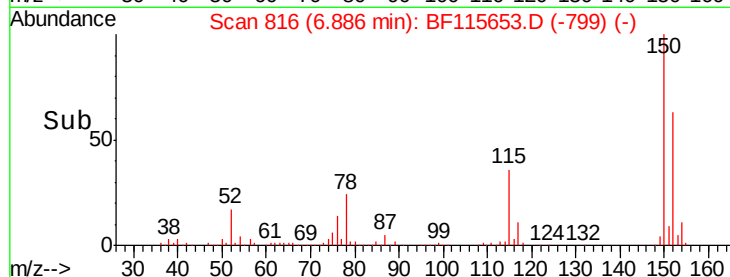
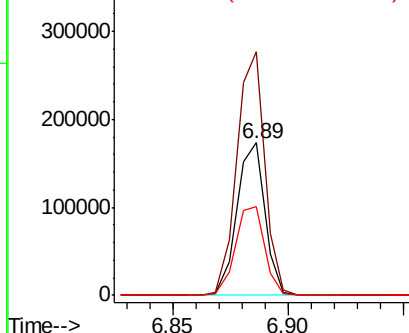


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

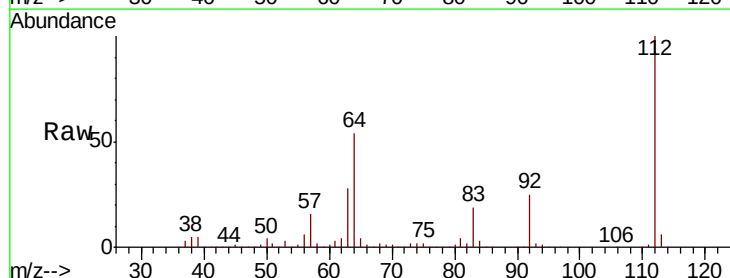
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 94.935 ng
RT: 5.51 min Scan# 582
Delta R.T. 0.01 min
Lab File: BF115653.D
Acq: 18 Jul 2019 17:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.4	46.8	70.2
63	27.7	24.1	36.1

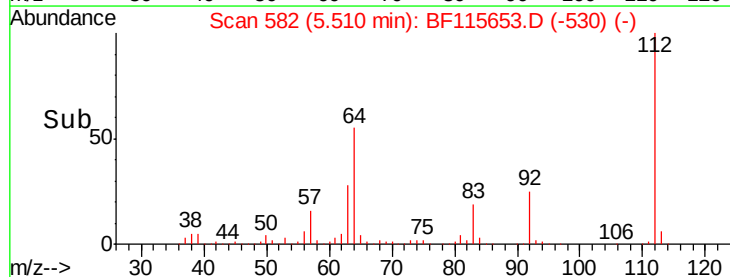
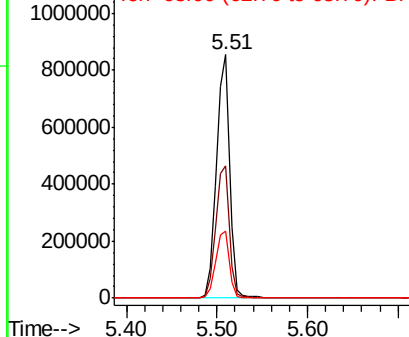


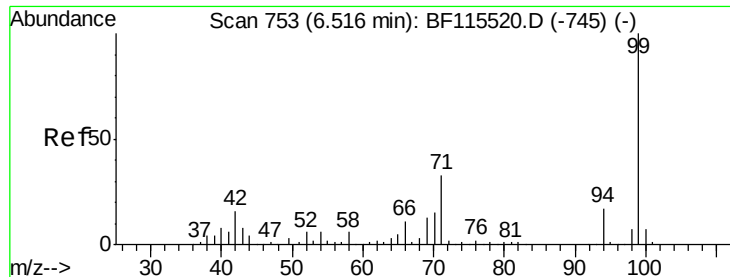
Abundance

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: 94.541 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.00 min

Lab File: BF115653.D

Acq: 18 Jul 2019 17:51

Instrument :

BNA_F

ClientSampled :

HJDC-S4

Tot Ion: 99 Resp: 1082466

Ion Ratio Lower Upper

99 100

42 15.2 13.6 20.4

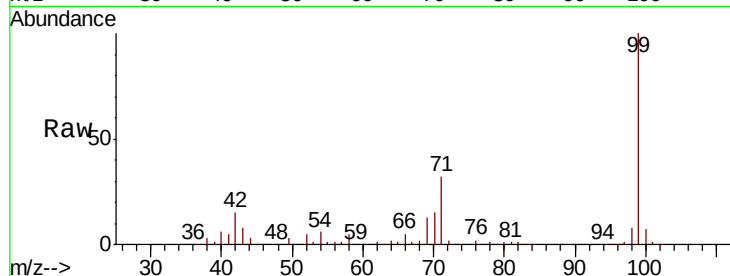
71 32.4 28.5 42.7

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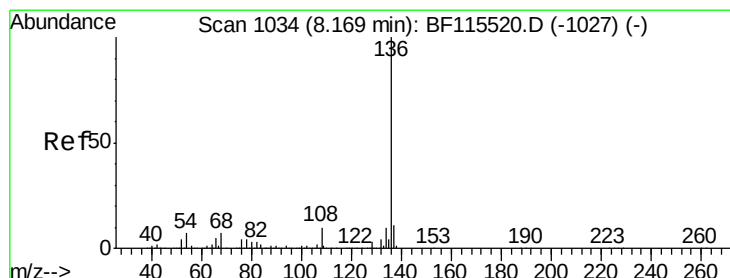
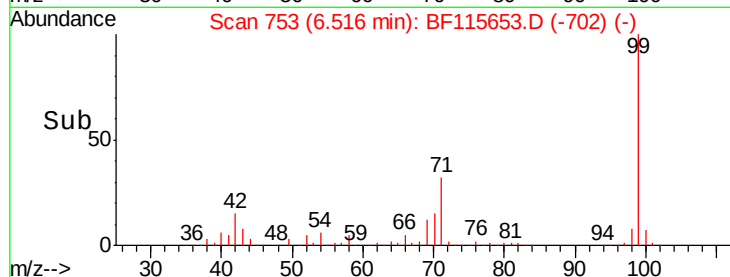
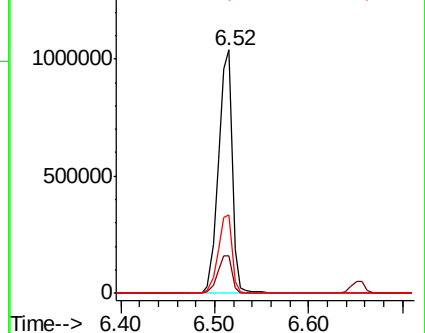
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Abundance Ion 99.00 (98.70 to 99.70): BF1

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: 8.16 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BF115653.D

Acq: 18 Jul 2019 17:51

Tgt Ion: 136 Resp: 578249

Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.4

54 7.6 5.6 8.4

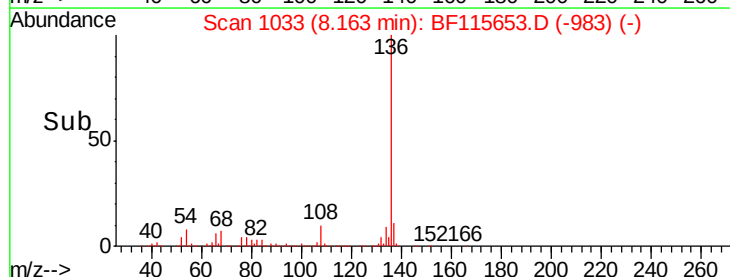
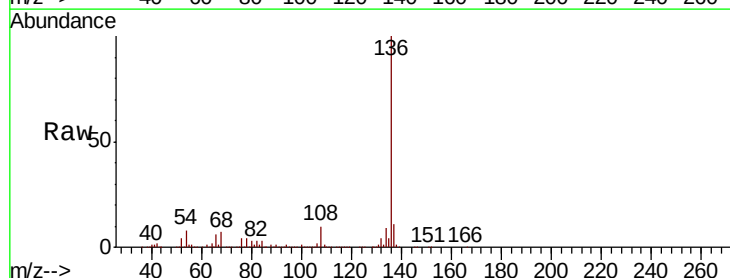
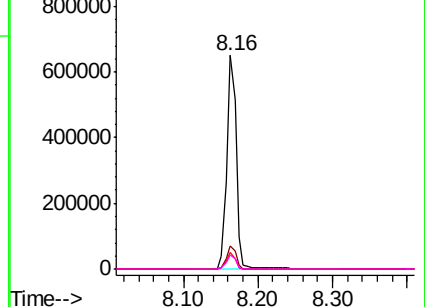
68 6.8 5.0 7.6

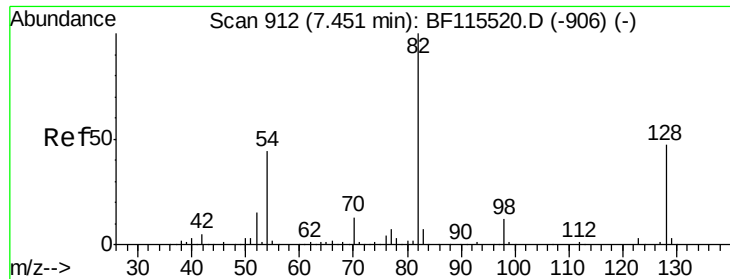
Abundance Ion 136.00 (135.70 to 136.70): E

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: 67.012 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.01 min

Lab File: BF115653.D

Acq: 18 Jul 2019 17:51

Instrument :

BNA_F

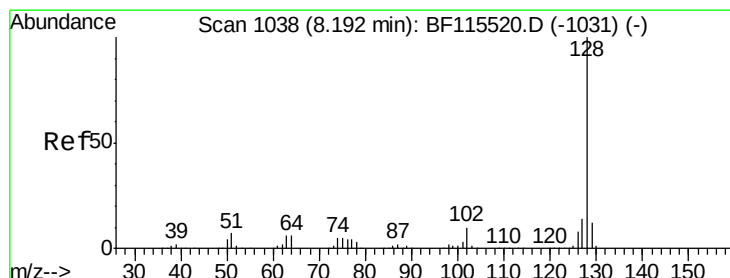
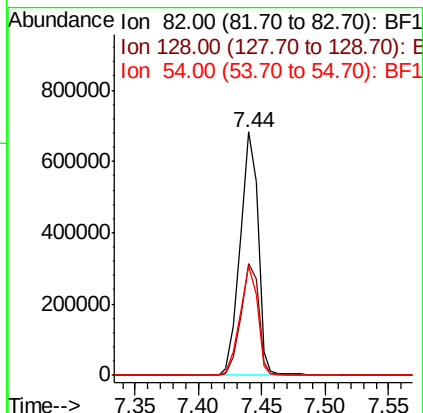
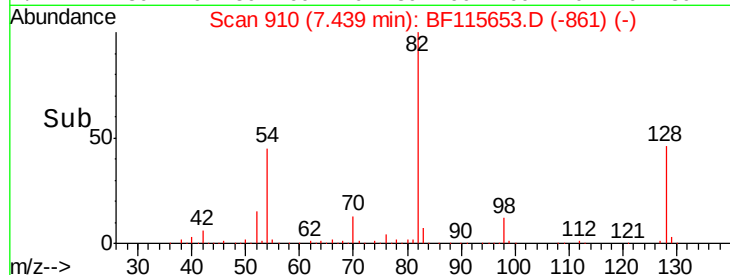
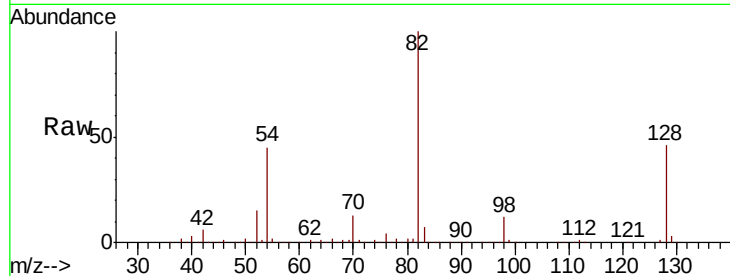
ClientSampled :

HJDC-S4

Tot Ion:	82	Resp:	666415
Ion Ratio	Lower	Upper	
82	100		
128	45.7	38.6	57.8
54	44.6	35.6	53.4

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#31

Naphthalene

Concen: 7.793 ng

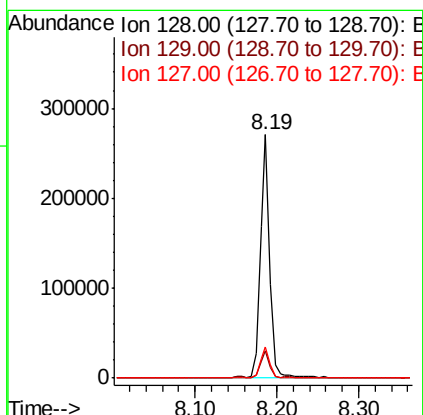
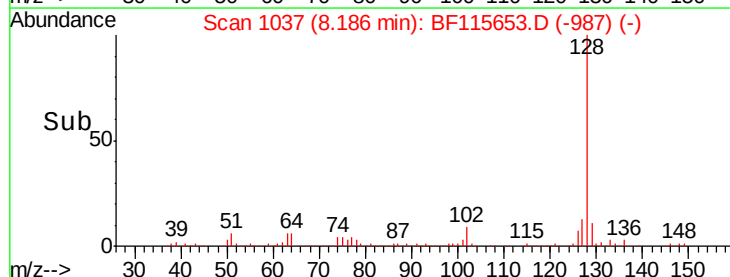
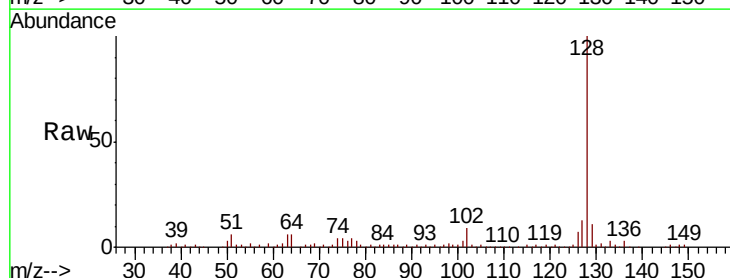
RT: 8.19 min Scan# 1037

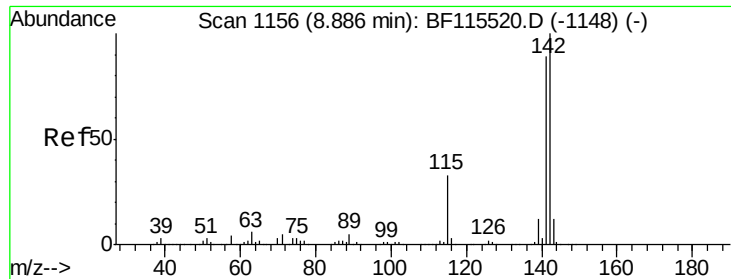
Delta R.T. -0.01 min

Lab File: BF115653.D

Acq: 18 Jul 2019 17:51

Tgt Ion:	128	Resp:	218241
Ion Ratio	Lower	Upper	
128	100		
129	11.1	9.9	14.9
127	12.8	12.1	18.1





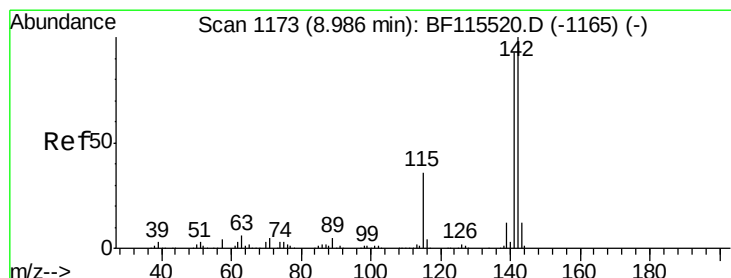
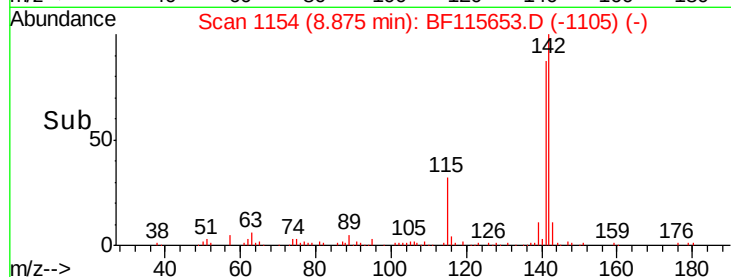
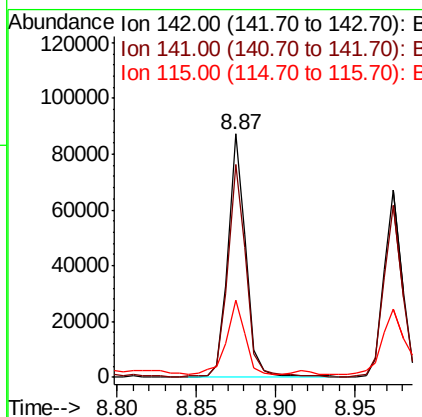
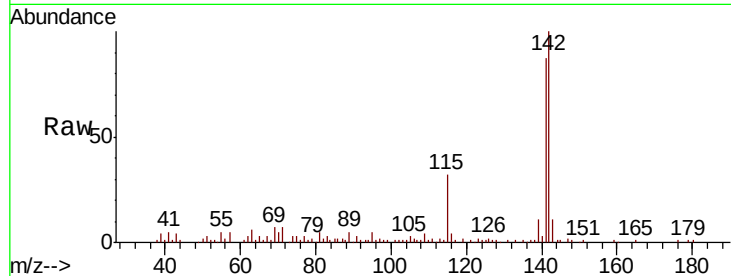
#37
2-Methylnaphthalene
Concen: 3.675 ng
RT: 8.87 min Scan# 1154
Delta R.T. -0.01 min
Lab File: BF115653.D
Acq: 18 Jul 2019 17:51

Instrument :
BNA_F
ClientSampleId :
HJDC-S4

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.3	72.0	108.0
115	31.9	29.9	44.9

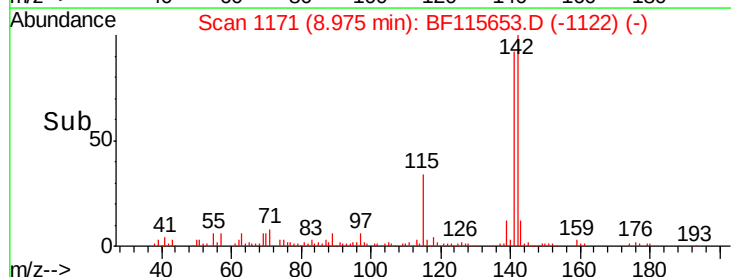
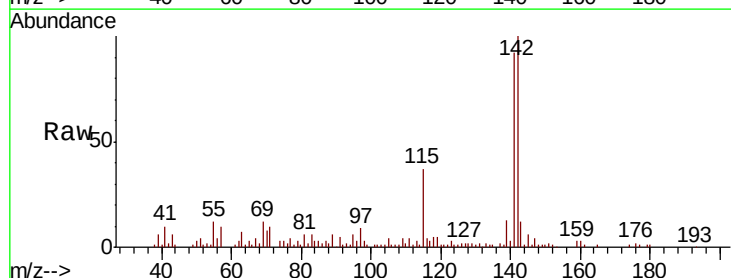
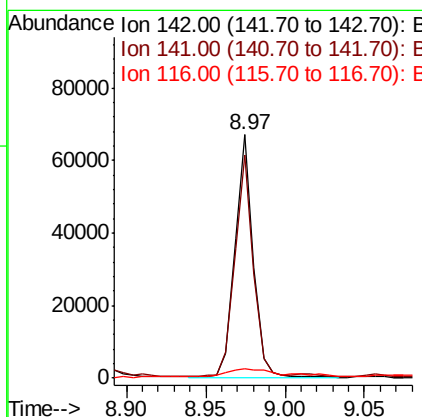
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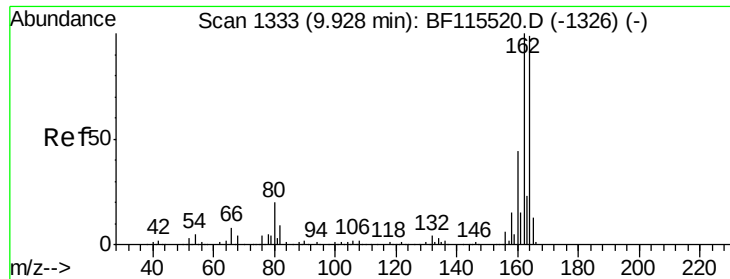
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#38
1-Methylnaphthalene
Concen: 3.087 ng
RT: 8.97 min Scan# 1171
Delta R.T. -0.01 min
Lab File: BF115653.D
Acq: 18 Jul 2019 17:51

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.8	75.3	112.9
116	4.1	3.3	4.9





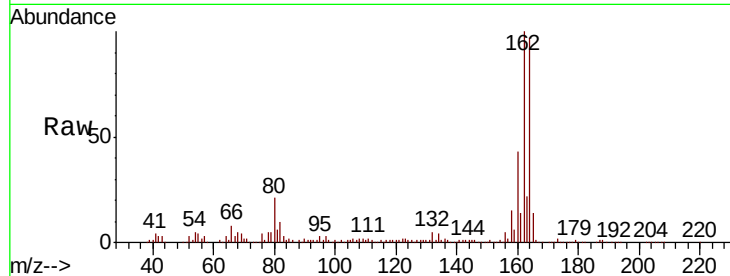
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF115653.D
Acq: 18 Jul 2019 17:51

Instrument :
BNA_F
ClientSampleId :
HJDC-S4

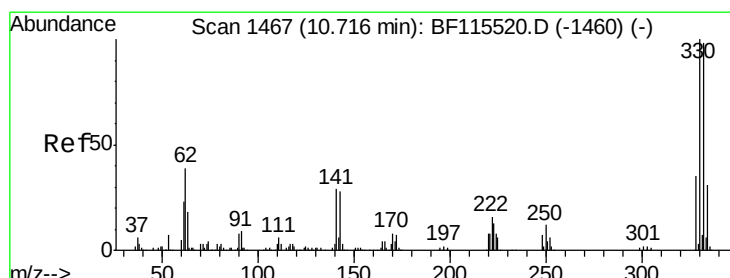
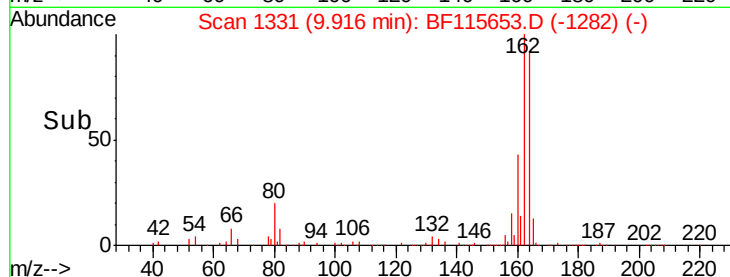
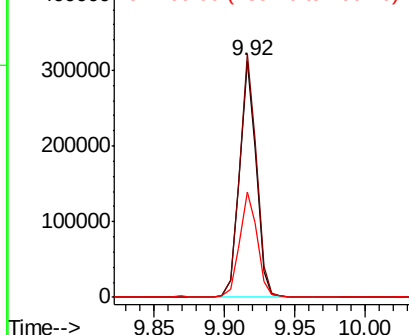
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	103.1	82.9	124.3	
160	44.6	36.8	55.2	

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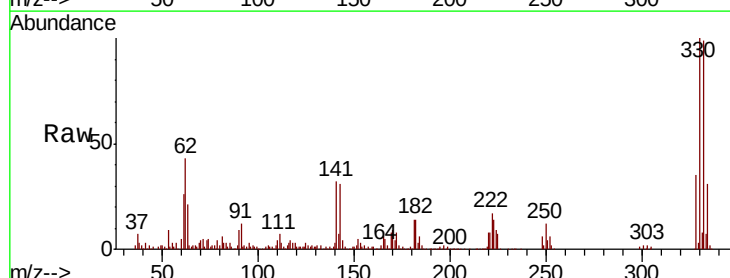


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

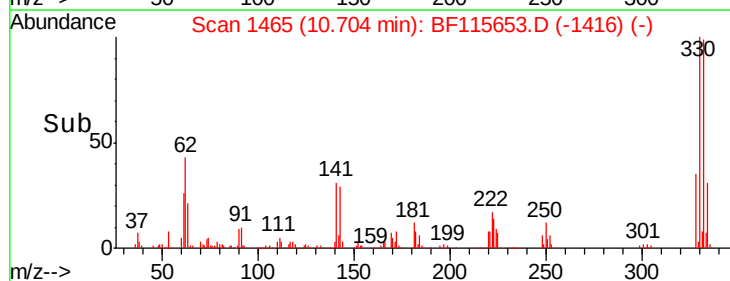
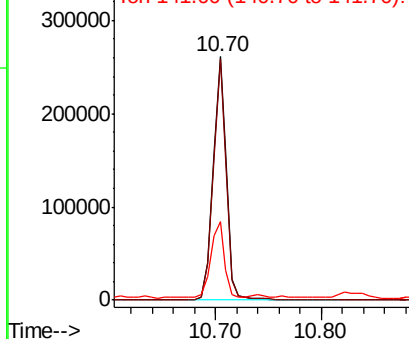


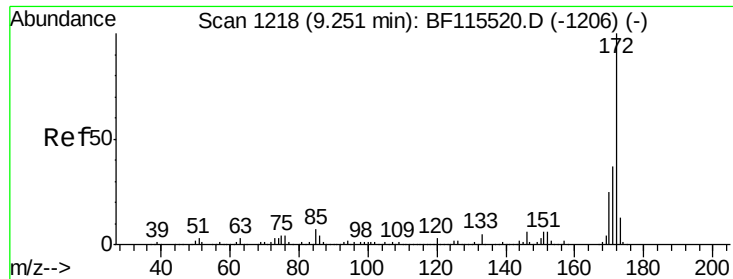
#42
2,4,6-Tribromophenol
Concen: 79.054 ng
RT: 10.70 min Scan# 1465
Delta R.T. -0.01 min
Lab File: BF115653.D
Acq: 18 Jul 2019 17:51

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.5	77.4	116.2	
141	31.4	22.4	33.6	



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





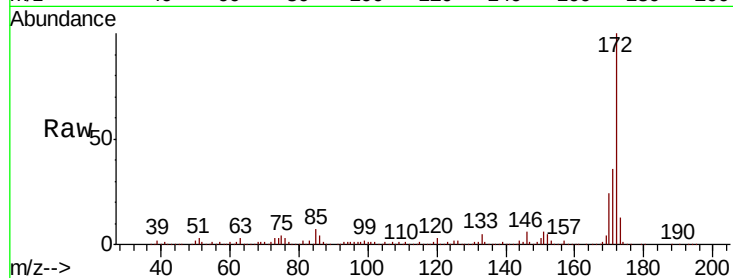
#45
2-Fluorobiphenyl
Concen: 64.621 ng
RT: 9.24 min Scan# 1216
Delta R.T. -0.01 min
Lab File: BF115653.D
Acq: 18 Jul 2019 17:51

Instrument :
BNA_F
ClientSampleId :
HJDC-S4

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.9	30.6	46.0
170	24.3	20.5	30.7

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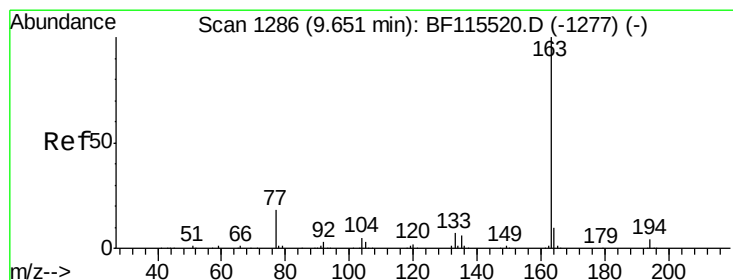
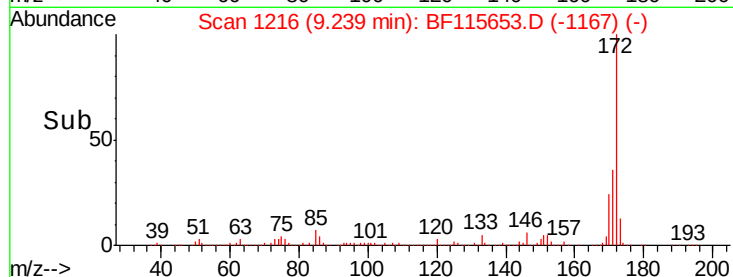
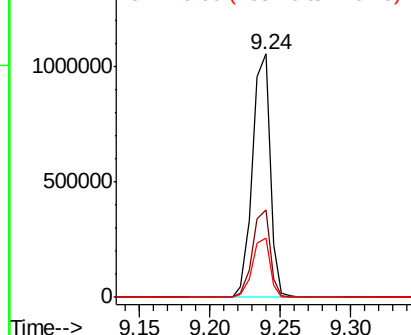


Abundance

Ion 172.00 (171.70 to 172.70): E

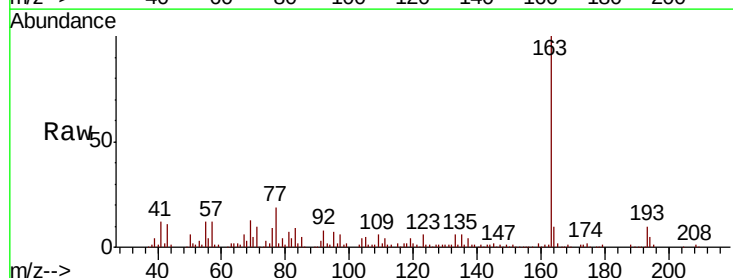
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#50
Dimethylphthalate
Concen: 8.256 ng
RT: 9.63 min Scan# 1282
Delta R.T. -0.02 min
Lab File: BF115653.D
Acq: 18 Jul 2019 17:51

Tgt Ion	Ratio	Lower	Upper
163	100		
194	5.4	3.3	4.9#
164	9.7	8.7	13.1

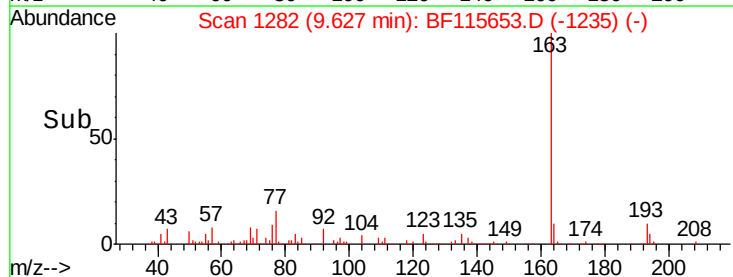
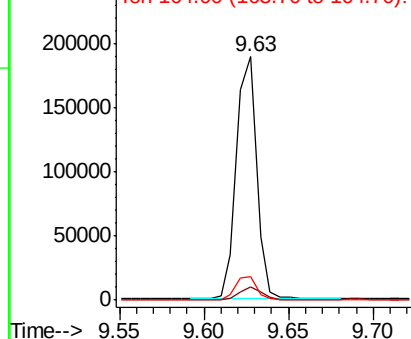


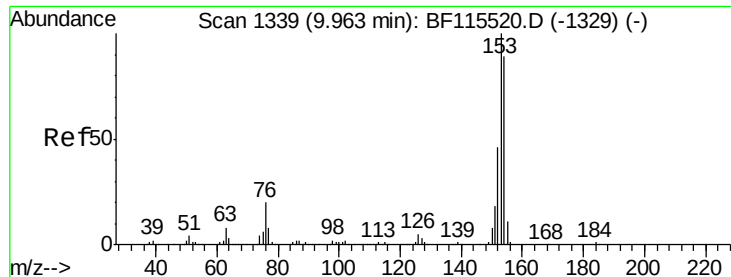
Abundance

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





#52

Acenaphthene

Concen: 6.668 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF115653.D

Acq: 18 Jul 2019 17:51

Instrument :

BNA_F

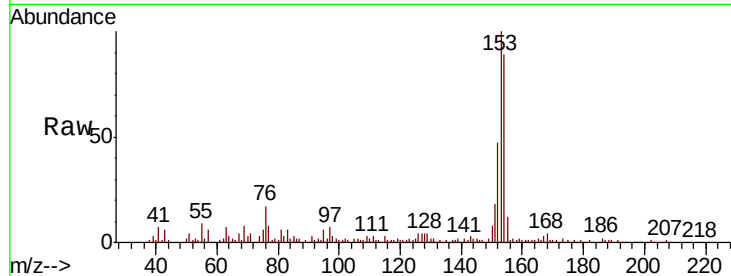
ClientSampleId :

HJDC-S4

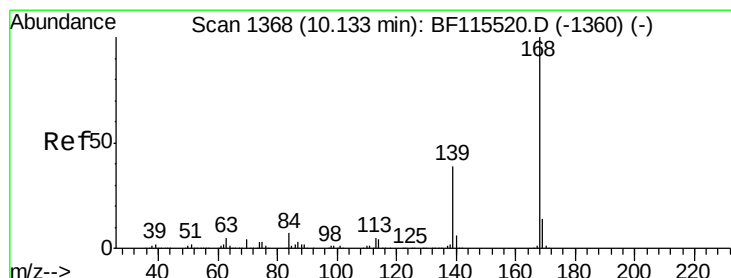
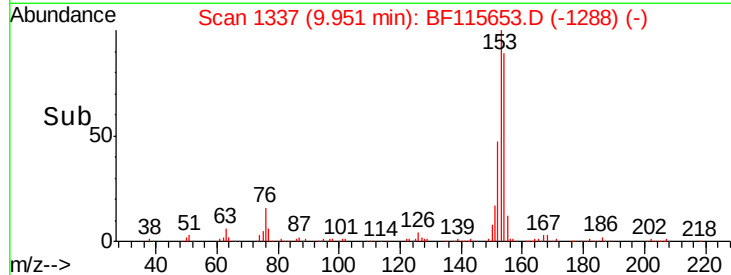
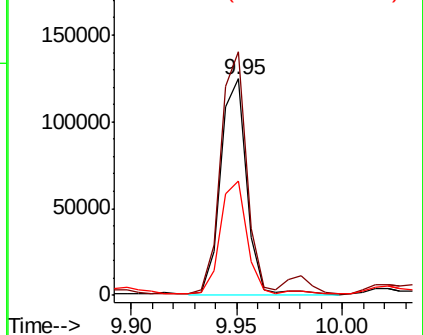
Tot Ion:	154	Resp:	105560
Ion Ratio	Lower	Upper	
154	100		
153	112.7	88.6	133.0
152	53.1	42.3	63.5

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 4.707 ng m

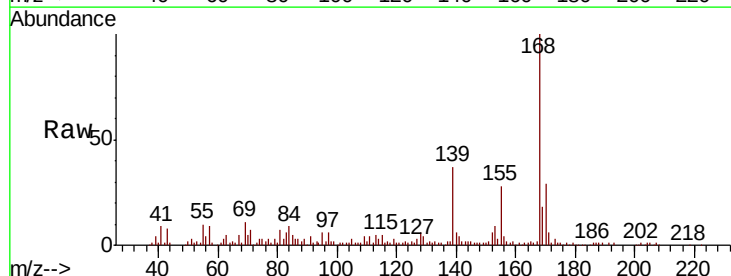
RT: 10.12 min Scan# 1366

Delta R.T. -0.01 min

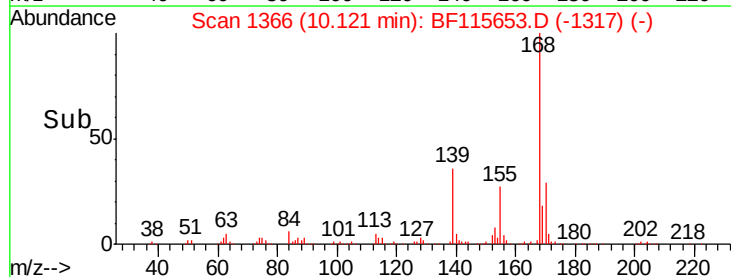
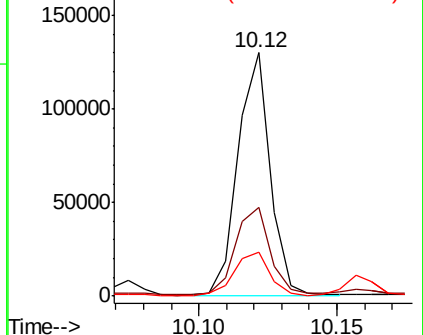
Lab File: BF115653.D

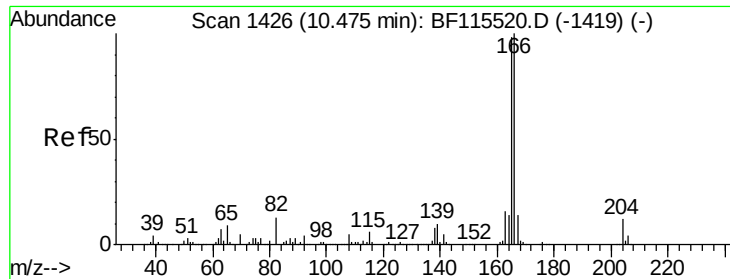
Acq: 18 Jul 2019 17:51

Tgt Ion:	168	Resp:	105823
Ion Ratio	Lower	Upper	
168	100		
139	36.7	31.1	46.7
169	17.9	11.1	16.7#



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





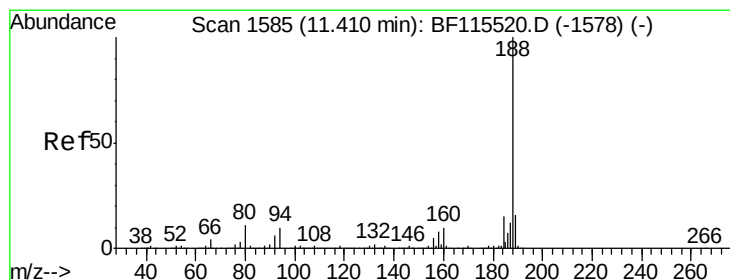
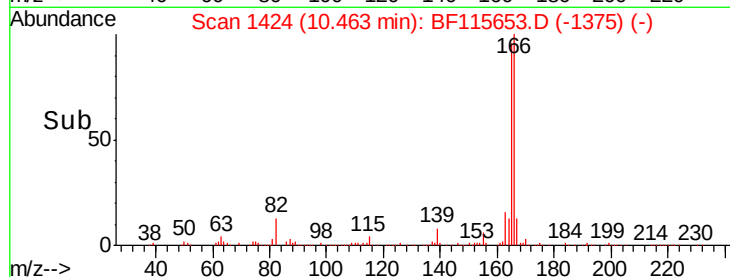
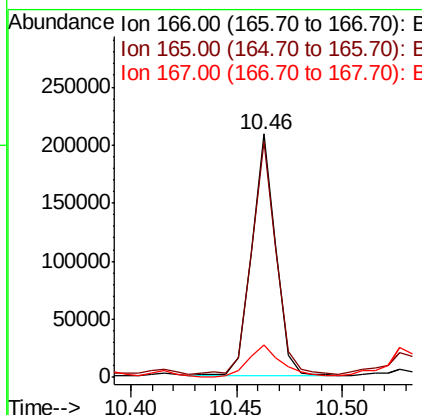
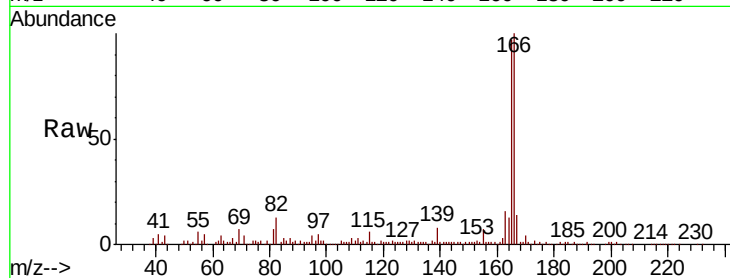
#58
 Fluorene
 Concen: 10.204 ng
 RT: 10.46 min Scan# 1424
 Delta R.T. -0.01 min
 Lab File: BF115653.D
 Acq: 18 Jul 2019 17:51

Instrument :
 BNA_F
 ClientSampled :
 HJDC-S4

Tot Ion	Ratio	Lower	Upper
166	100		
165	96.8	79.8	119.6
167	13.6	11.2	16.8

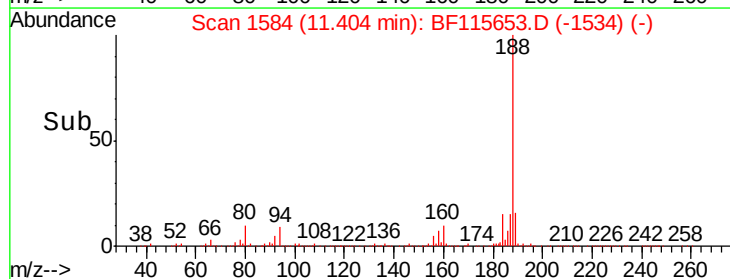
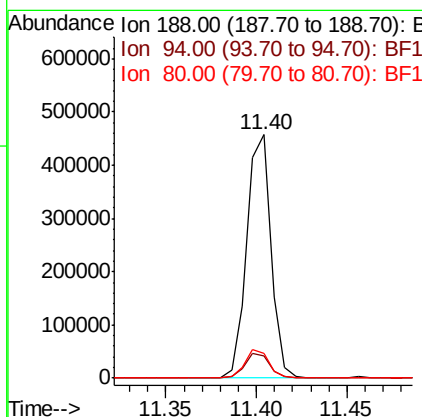
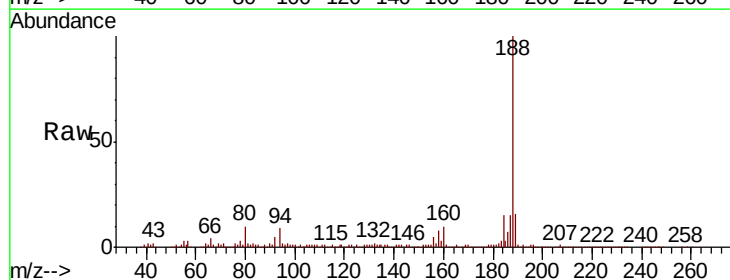
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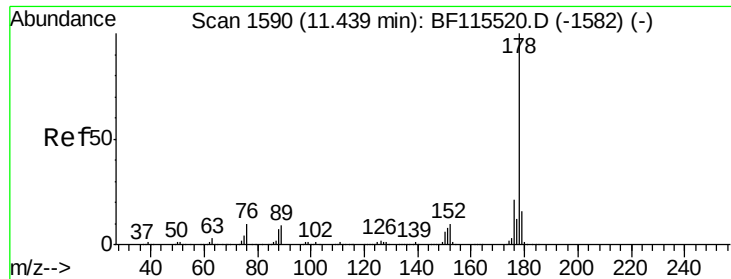
mohammad
 7/19/2019 3:58:34 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF115653.D
 Acq: 18 Jul 2019 17:51

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.1	7.8	11.6
80	10.0	8.6	13.0





#71

Phenanthrene

Concen: 55.891 ng

RT: 11.43 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BF115653.D

Acq: 18 Jul 2019 17:51

Instrument :

BNA_F

ClientSampleId :

HJDC-S4

Tot Ion:178 Resp: 1209893

Ion Ratio Lower Upper

178 100

176 20.2 17.2 25.8

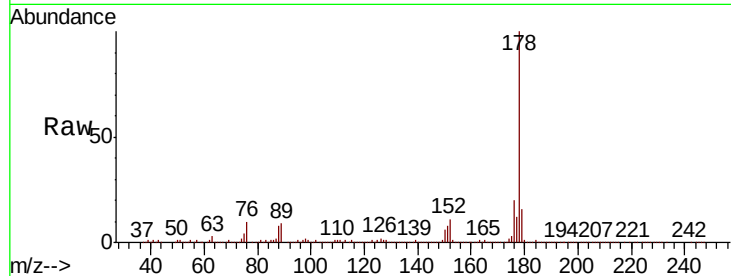
179 15.9 13.5 20.3

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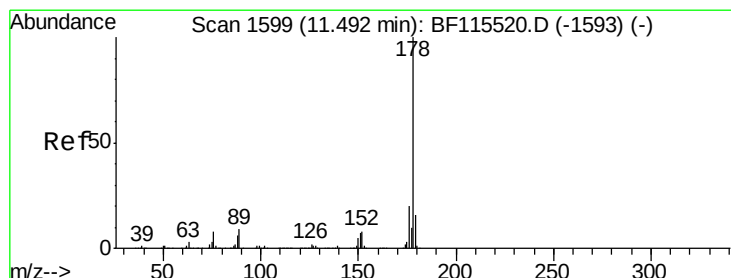
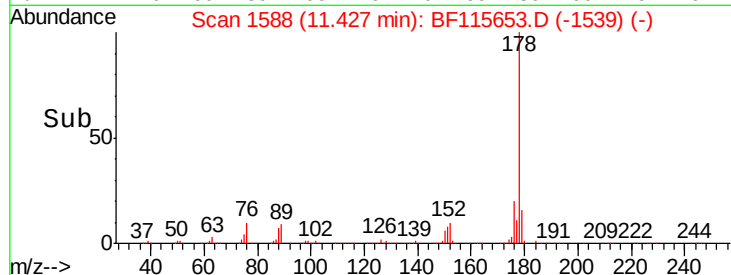
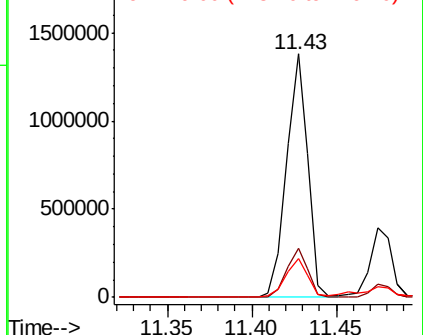
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 14.876 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.02 min

Lab File: BF115653.D

Acq: 18 Jul 2019 17:51

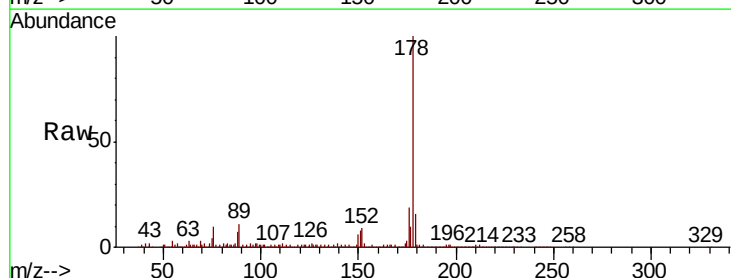
Tgt Ion:178 Resp: 332794

Ion Ratio Lower Upper

178 100

176 19.3 15.9 23.9

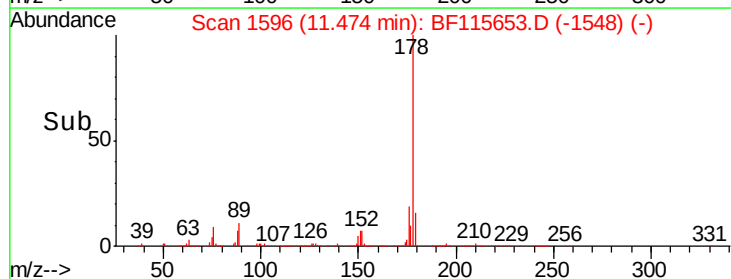
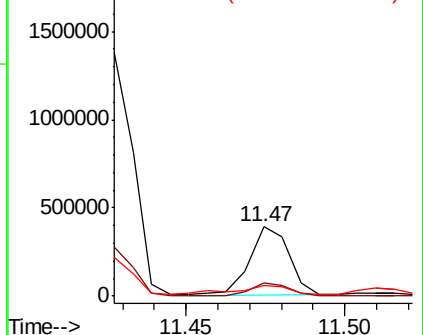
179 16.0 12.7 19.1

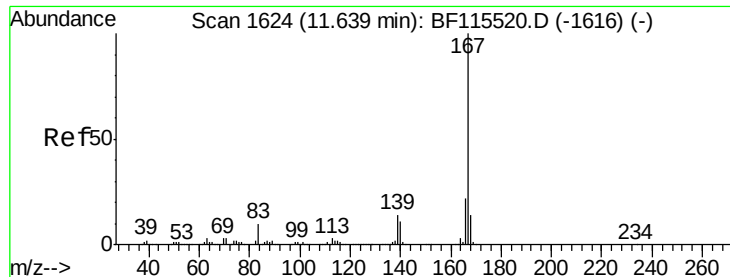


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





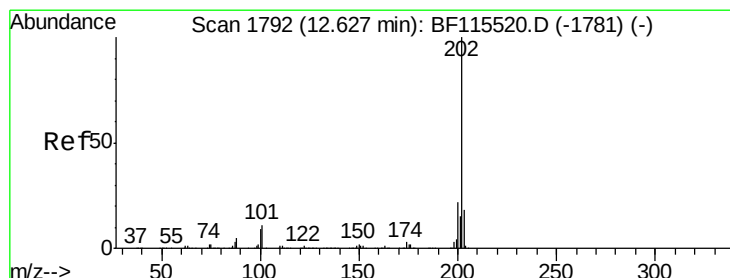
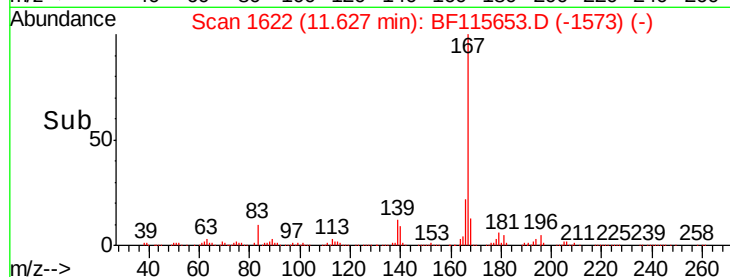
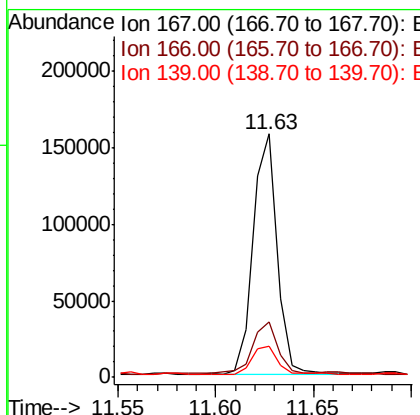
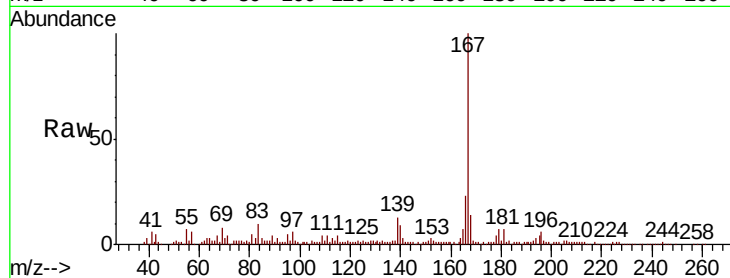
#73
 Carbazole
 Concen: 6.854 ng
 RT: 11.63 min Scan# 1622
 Delta R.T. -0.01 min
 Lab File: BF115653.D
 Acq: 18 Jul 2019 17:51

Instrument :
 BNA_F
 ClientSampleId :
 HJDC-S4

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.5	18.1	27.1
139	12.9	11.3	16.9

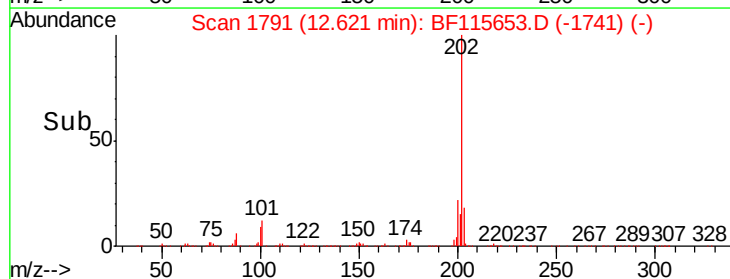
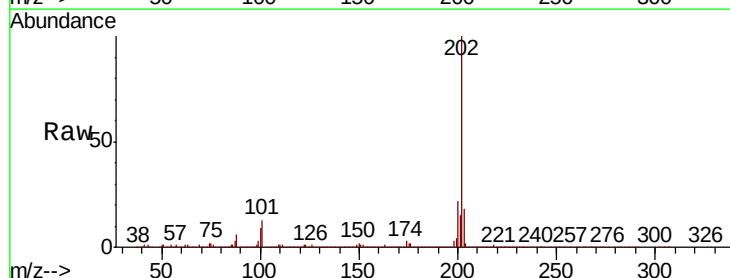
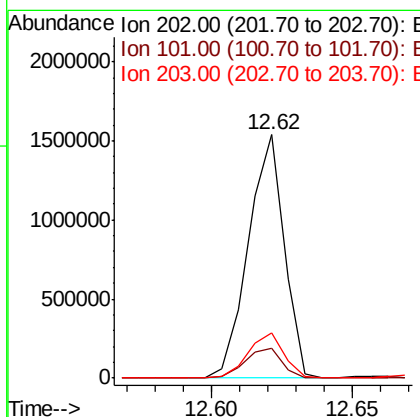
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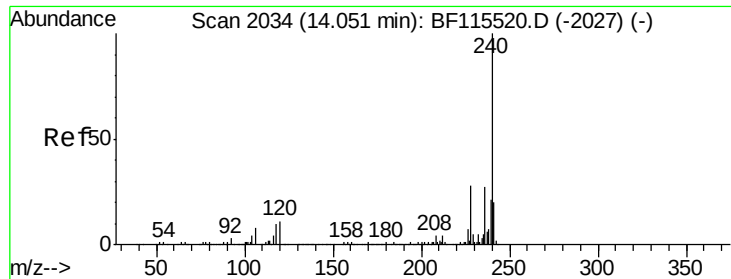
mohammad
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#75
 Fluoranthene
 Concen: 59.200 ng
 RT: 12.62 min Scan# 1791
 Delta R.T. -0.01 min
 Lab File: BF115653.D
 Acq: 18 Jul 2019 17:51

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.5	0.0	31.4
203	18.4	0.0	38.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.04 min Scan# 2032

Delta R.T. -0.01 min

Lab File: BF115653.D

Acq: 18 Jul 2019 17:51

Instrument :

BNA_F

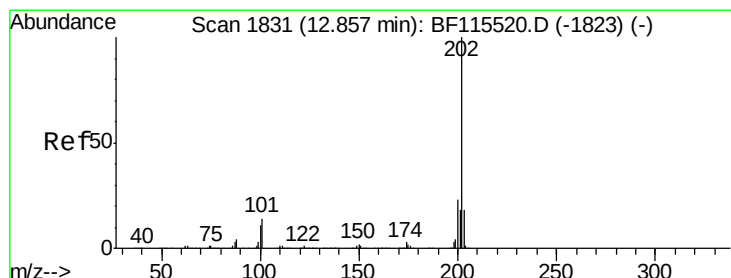
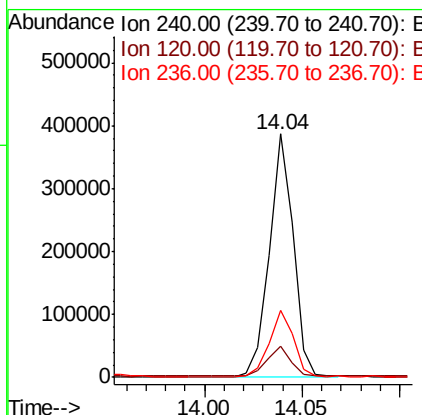
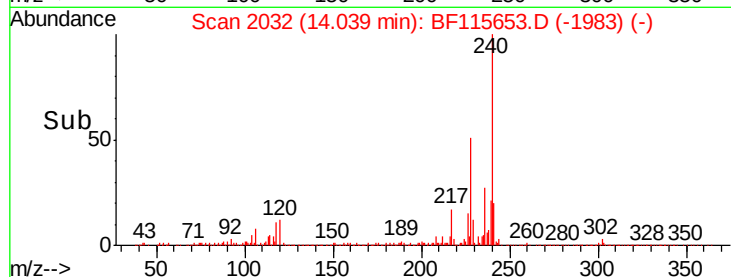
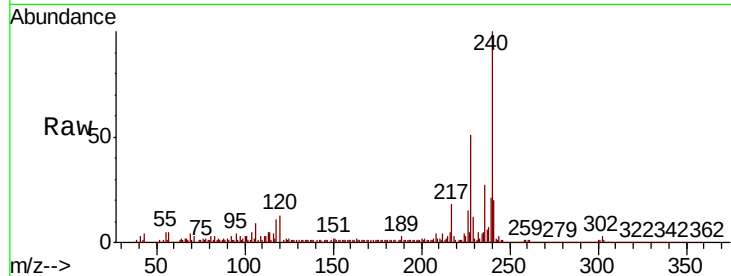
ClientSampled :

HJDC-S4

Tot Ion:	240	Resp:	326693
Ion Ratio	Lower	Upper	
240	100		
120	12.8	8.6	13.0
236	27.4	21.3	31.9

Manual Integrations
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#78

Pyrene

Concen: 46.695 ng

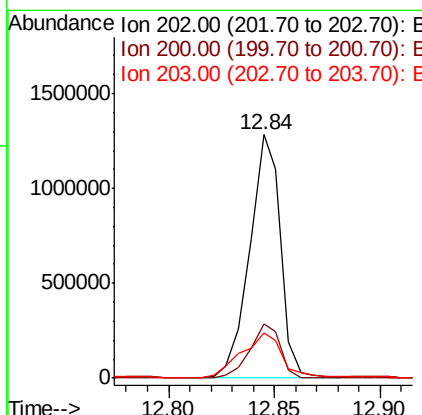
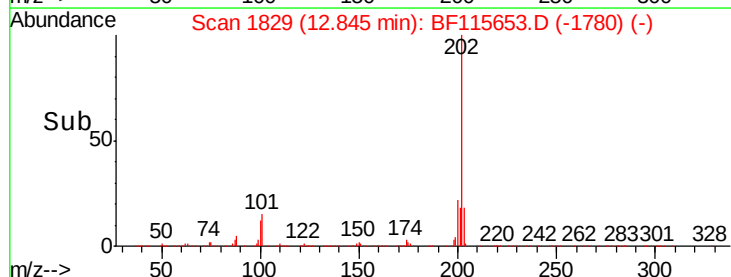
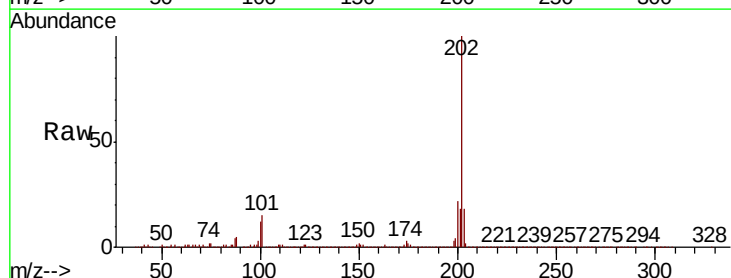
RT: 12.84 min Scan# 1829

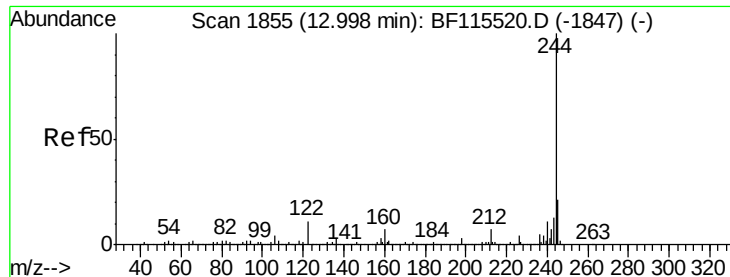
Delta R.T. -0.01 min

Lab File: BF115653.D

Acq: 18 Jul 2019 17:51

Tgt Ion:	202	Resp:	1292456
Ion Ratio	Lower	Upper	
202	100		
200	22.1	18.7	28.1
203	18.4	15.2	22.8





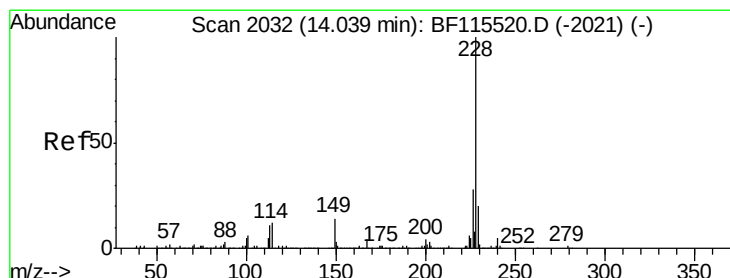
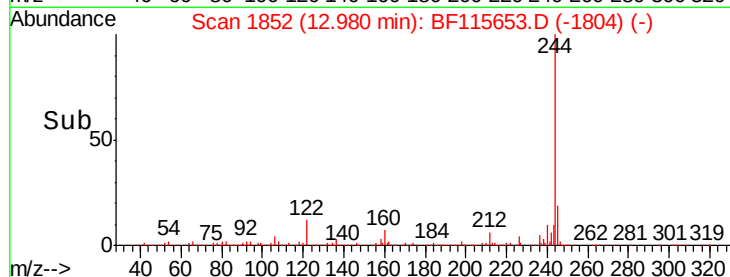
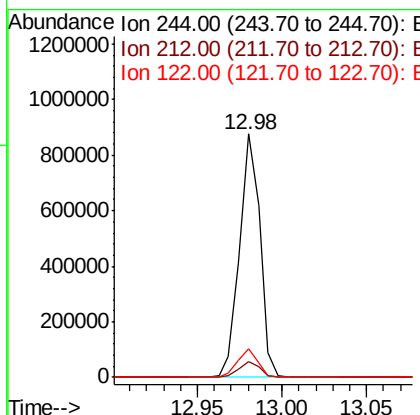
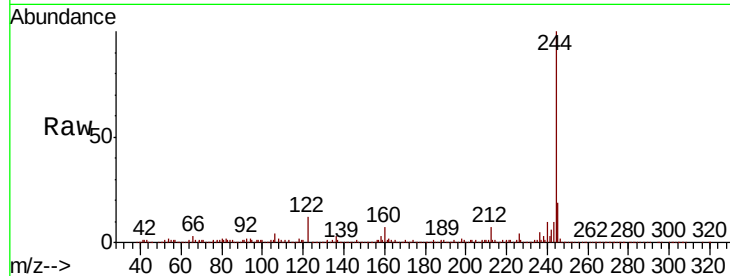
#79
 Terphenyl-d14
 Concen: 41.566 ng
 RT: 12.98 min Scan# 1852
 Delta R.T. -0.02 min
 Lab File: BF115653.D
 Acq: 18 Jul 2019 17:51

Instrument :
 BNA_F
 ClientSampleId :
 HJDC-S4

Tot Ion:	244	Resp:	735937
Ion Ratio	Lower	Upper	
244	100		
212	6.6	6.0	9.0
122	12.0	8.6	12.8

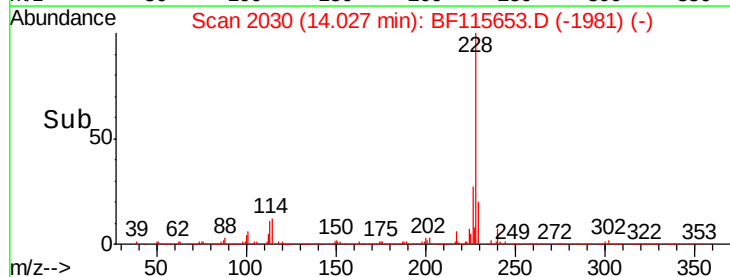
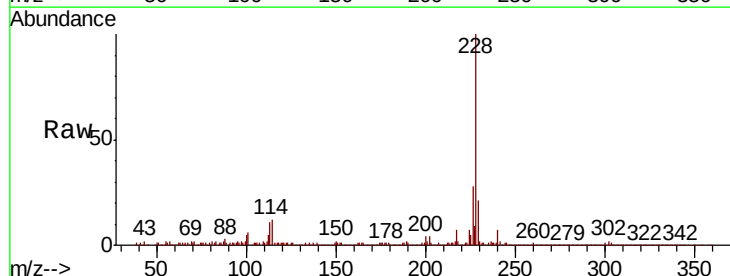
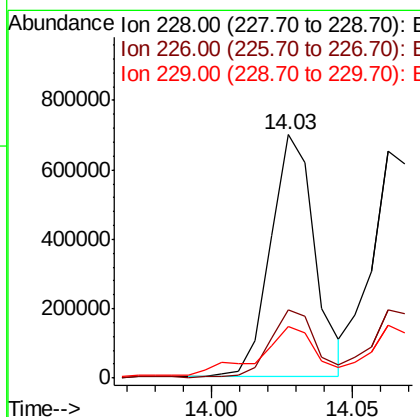
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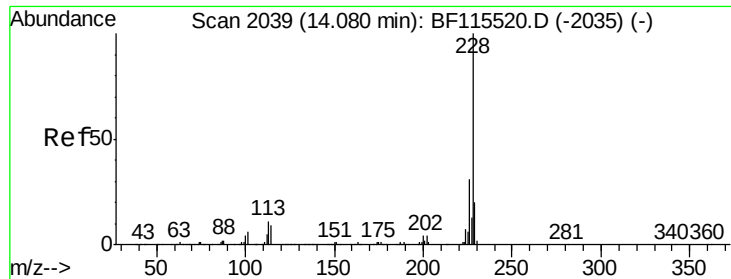
mohammad
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#81
 Benzo(a)anthracene
 Concen: 35.203 ng
 RT: 14.03 min Scan# 2030
 Delta R.T. -0.01 min
 Lab File: BF115653.D
 Acq: 18 Jul 2019 17:51

Tgt Ion:	228	Resp:	757654
Ion Ratio	Lower	Upper	
228	100		
226	28.0	23.4	35.0
229	21.0	17.2	25.8





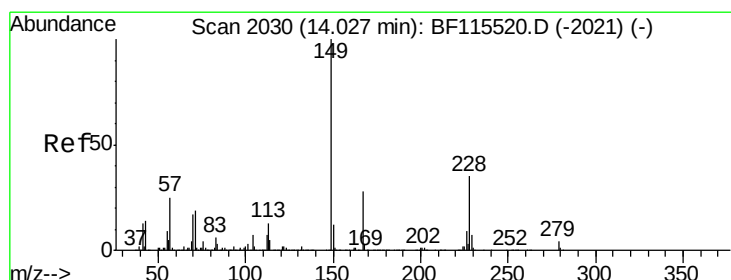
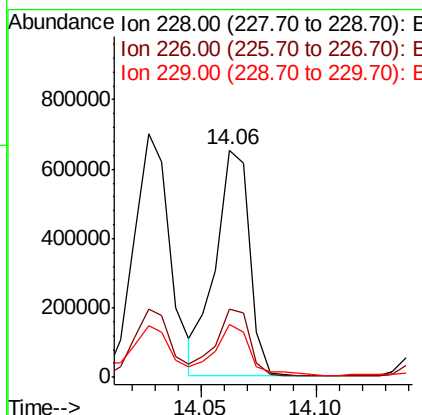
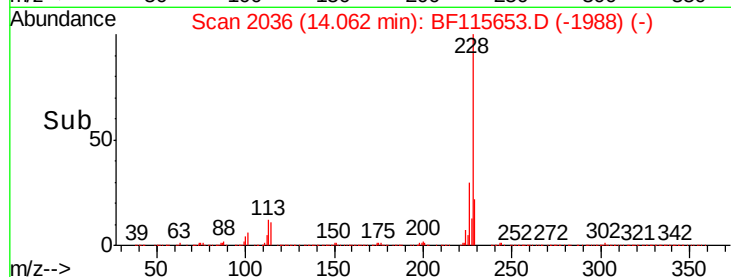
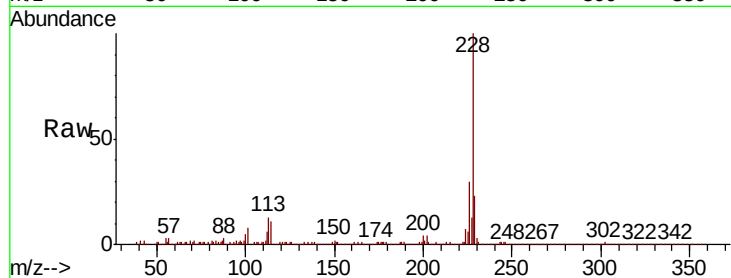
#83
Chrysene
Concen: 30.933 ng
RT: 14.06 min Scan# 2036
Delta R.T. -0.02 min
Lab File: BF115653.D
Acq: 18 Jul 2019 17:51

Instrument :
BNA_F
ClientSampled :
HJDC-S4

Tot Ion:	228	Resp:	668335
Ion Ratio	Lower	Upper	
228	100		
226	29.9	25.7	38.5
229	23.3	16.6	25.0

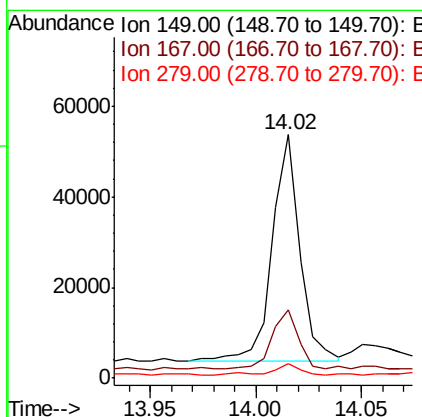
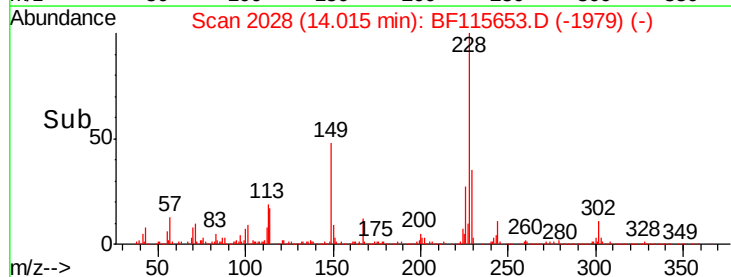
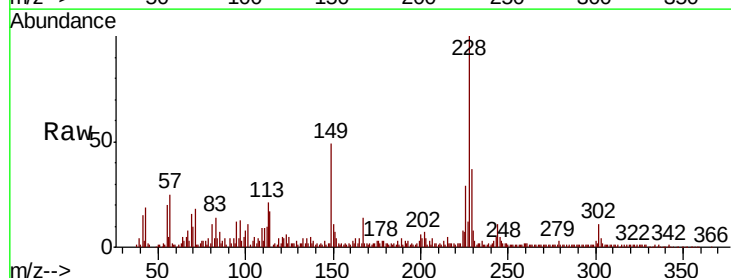
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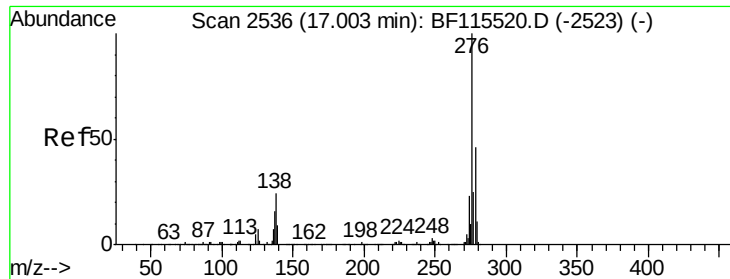
mohammad
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#84
Bis(2-ethylhexyl)phthalate
Concen: 3.130 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.01 min
Lab File: BF115653.D
Acq: 18 Jul 2019 17:51

Tgt Ion:	149	Resp:	45743
Ion Ratio	Lower	Upper	
149	100		
167	27.8	23.0	34.4
279	6.2	4.2	6.2





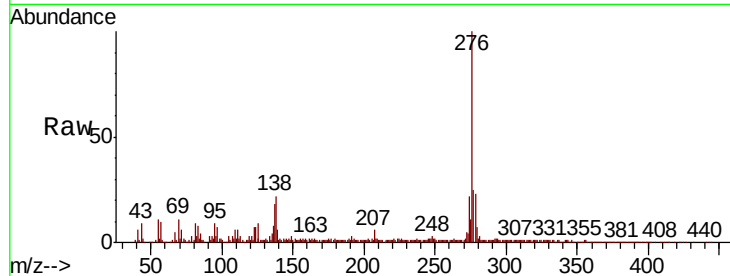
#86
Indeno(1,2,3-cd)pyrene
Concen: 13.856 ng
RT: 16.98 min Scan# 2532
Delta R.T. -0.02 min
Lab File: BF115653.D
Acq: 18 Jul 2019 17:51

Instrument :
BNA_F
ClientSampleId :
HJDC-S4

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.1	20.2	30.2
277	24.2	20.4	30.6

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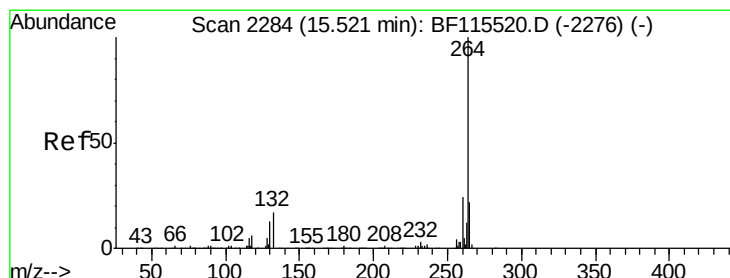
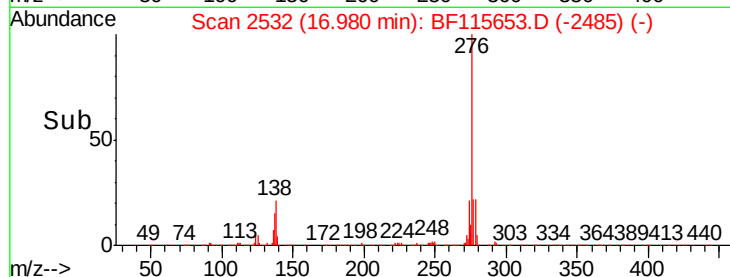
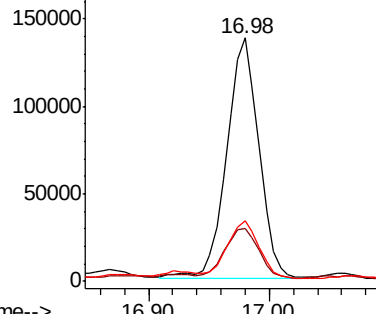


Abundance

Ion 276.00 (275.70 to 276.70): E

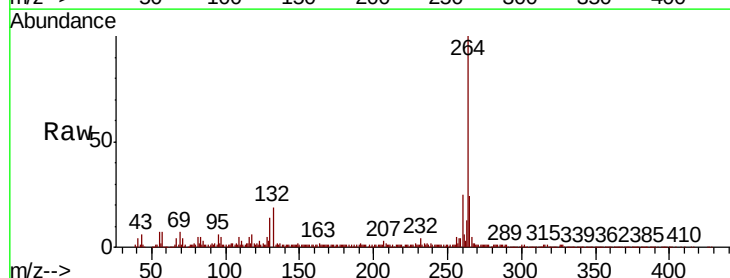
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.51 min Scan# 2282
Delta R.T. -0.01 min
Lab File: BF115653.D
Acq: 18 Jul 2019 17:51

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.3	19.8	29.8
265	23.8	17.7	26.5

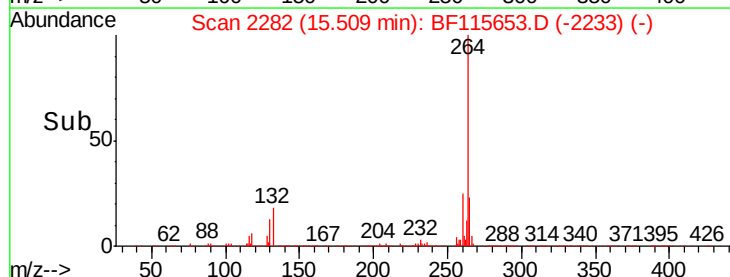
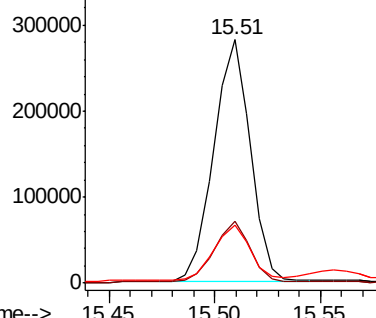


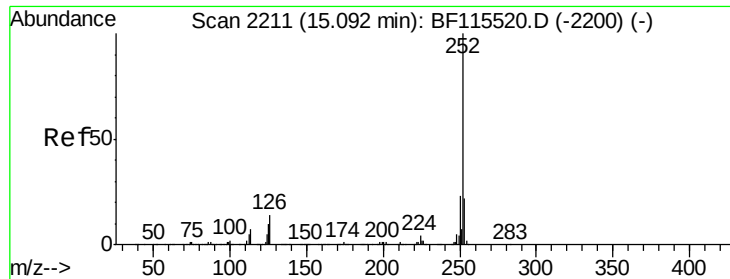
Abundance

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





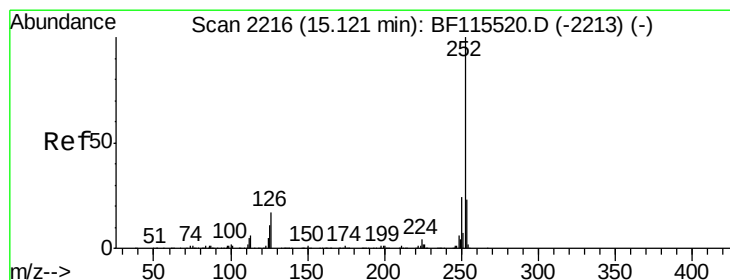
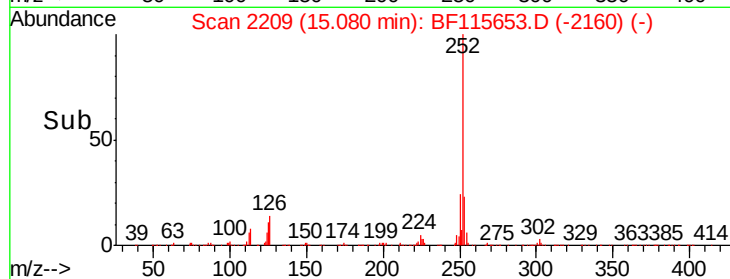
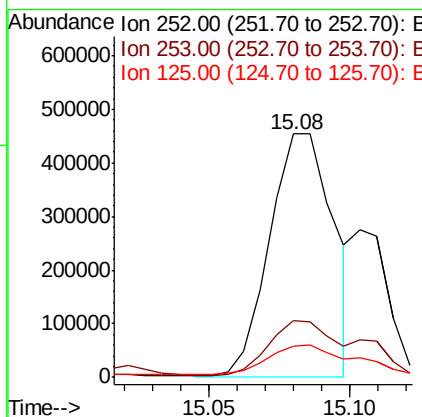
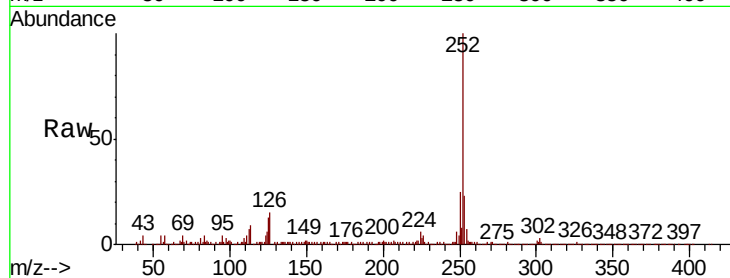
#88
Benzo(b)fluoranthene
Concen: 32.714 ng m
RT: 15.08 min Scan# 2209
Delta R.T. -0.01 min
Lab File: BF115653.D
Acq: 18 Jul 2019 17:51

Instrument :
BNA_F
ClientSampleId :
HJDC-S4

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.1	27.1
125	12.8	9.0	13.4

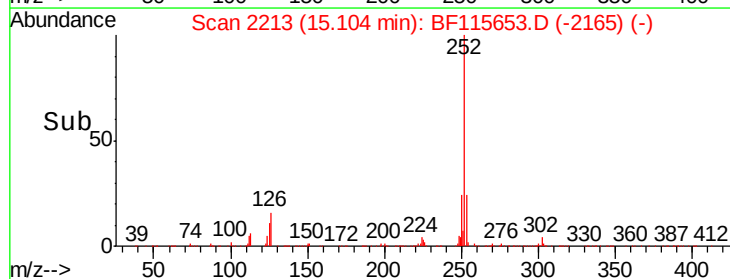
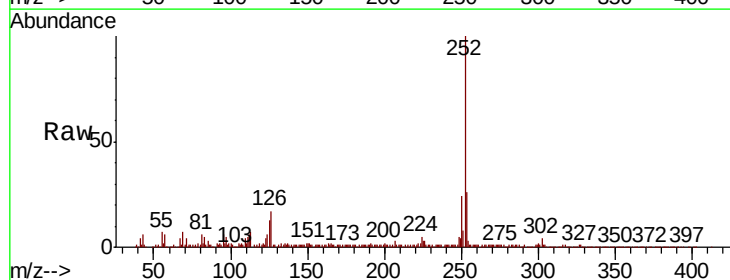
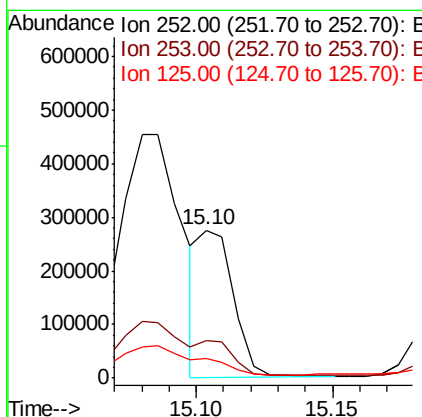
Manual Integrations
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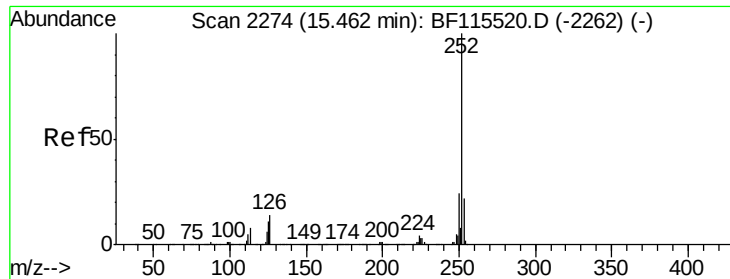
mohammad
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#89
Benzo(k)fluoranthene
Concen: 12.331 ng m
RT: 15.10 min Scan# 2213
Delta R.T. -0.02 min
Lab File: BF115653.D
Acq: 18 Jul 2019 17:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.5	18.6	28.0
125	13.4	9.0	13.6





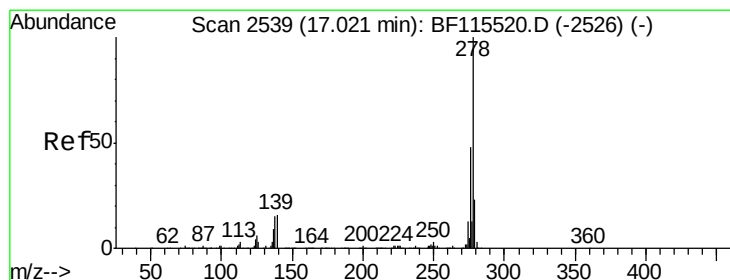
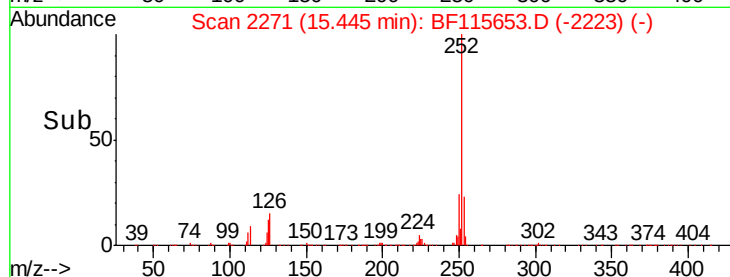
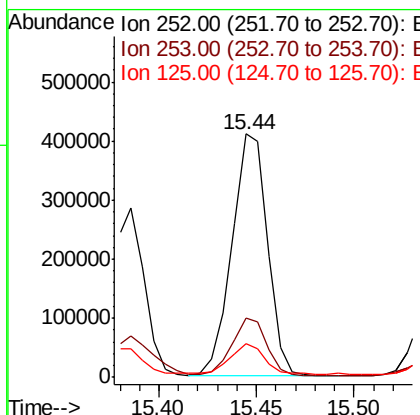
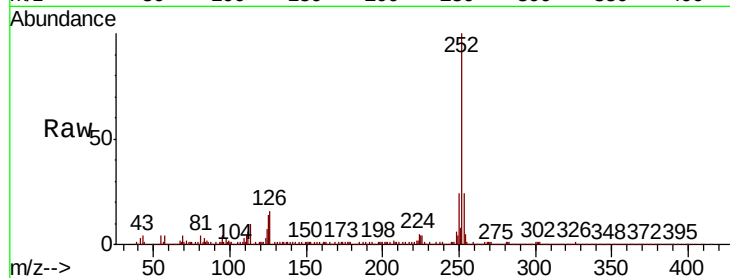
#90
Benzo(a)pyrene
Concen: 27.560 ng
RT: 15.44 min Scan# 2271
Delta R.T. -0.02 min
Lab File: BF115653.D
Acq: 18 Jul 2019 17:51

Instrument :
BNA_F
ClientSampled :
HJDC-S4

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.8	26.6
125	13.8	9.1	13.7

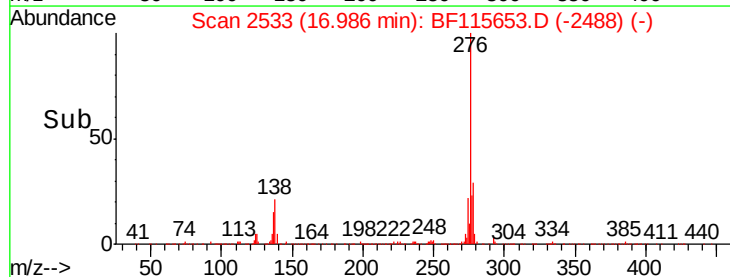
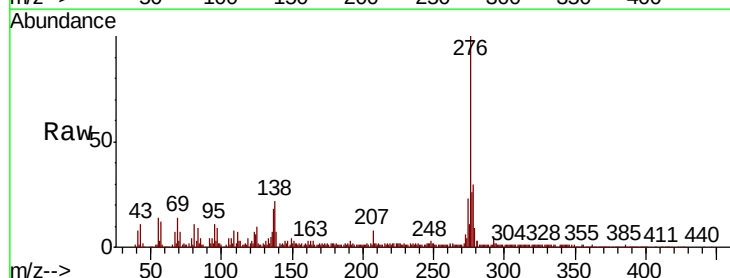
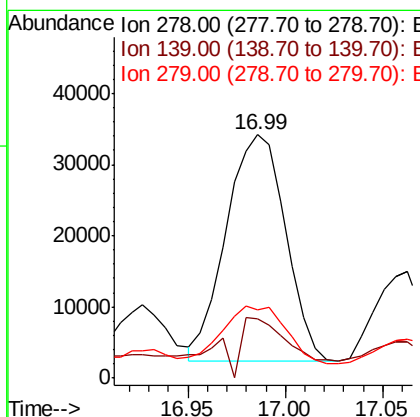
Manual Integrations
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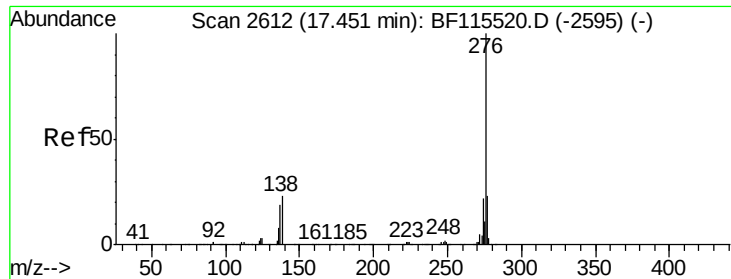
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#91
Dibenzo(a,h)anthracene
Concen: 4.042 ng
RT: 16.99 min Scan# 2533
Delta R.T. -0.04 min
Lab File: BF115653.D
Acq: 18 Jul 2019 17:51

Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.5	13.1	19.7
279	28.2	19.6	29.4





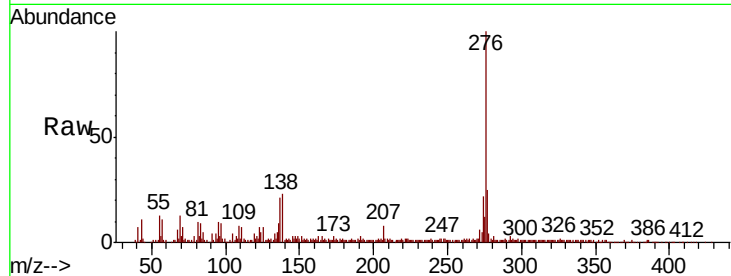
#92
 Benzo(a,h,i)perylene
 Concen: 13.500 ng
 RT: 17.43 min Scan# 2608
 Delta R.T. -0.02 min
 Lab File: BF115653.D
 Acq: 18 Jul 2019 17:51

Instrument :
 BNA_F
 ClientSampleId :
 HJDC-S4

Tot Ion:	276	Resp:	222236
Ion Ratio	Lower	Upper	
276	100		
277	25.3	19.0	28.4
138	22.6	17.2	25.8

Manual Integrations
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Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 277.00 (276.70 to 277.70): E
 Ion 138.00 (137.70 to 138.70): E

