

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
 Data File : BF111790.D
 Acq On : 28 Dec 2018 15:57
 Operator : JU/SJ
 Sample : J6195-11 2X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-122618-A

Manual Integrations
 APPROVED

Sohil
 1/2/2019 2:51:33 PM

Quant Time: Dec 30 21:25:07 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 19 17:39:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	165535	20.00	ng	0.00
21) Naphthalene-d8	8.19	136	625092	20.00	ng	0.00
39) Acenaphthene-d10	9.94	164	282279	20.00	ng	0.00
64) Phenanthrene-d10	11.43	188	441701	20.00	ng	0.01
76) Chrysene-d12	14.07	240	366414	20.00	ng	0.02
87) Perylene-d12	15.56	264	295968	20.00	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.53	112	452458	46.59	ng	0.02
7) Phenol-d6	6.54	99	592623	47.95	ng	0.02
23) Nitrobenzene-d5	7.46	82	372749	34.71	ng	0.00
42) 2,4,6-Tribromophenol	10.73	330	141331	42.37	ng	0.00
45) 2-Fluorobiphenyl	9.26	172	679440	35.08	ng	0.00
79) Terphenyl-d14	13.01	244	527177	27.28	ng	0.01
Target Compounds						
10) Phenol	6.55	94	40416	2.898	ng	97
31) Naphthalene	8.20	128	141724	4.719	ng	96
37) 2-Methylnaphthalene	8.90	142	68722	3.517	ng	100
38) 1-Methylnaphthalene	9.00	142	47777m	2.546	ng	
50) Dimethylphthalate	9.65	163	116044	5.622	ng	# 97
52) Acenaphthene	9.97	154	109137	6.419	ng	97
55) Dibenzofuran	10.15	168	134659	5.243	ng	96
58) Fluorene	10.49	166	164911	8.910	ng	99
71) Phenanthrene	11.45	178	1029864	43.964	ng	94
72) Anthracene	11.50	178	346054	14.718	ng	94
73) Carbazole	11.65	167	74718	3.273	ng	93
75) Fluoranthene	12.64	202	1154610	48.674	ng	96
78) Pyrene	12.87	202	959010	37.063	ng	97
81) Benzo(a)anthracene	14.06	228	481492	23.026	ng	99
83) Chrysene	14.09	228	398044	19.367	ng	97
86) Indeno(1,2,3-cd)pyrene	17.06	276	164939	9.440	ng	# 84
88) Benzo(b)fluoranthene	15.12	252	448579m	25.933	ng	
89) Benzo(k)fluoranthene	15.14	252	162160m	9.847	ng	
90) Benzo(a)pyrene	15.50	252	319902m	20.357	ng	
91) Dibenzo(a,h)anthracene	17.07	278	38308	2.784	ng	# 90
92) Benzo(g,h,i)perylene	17.52	276	144412	10.747	ng	# 90

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

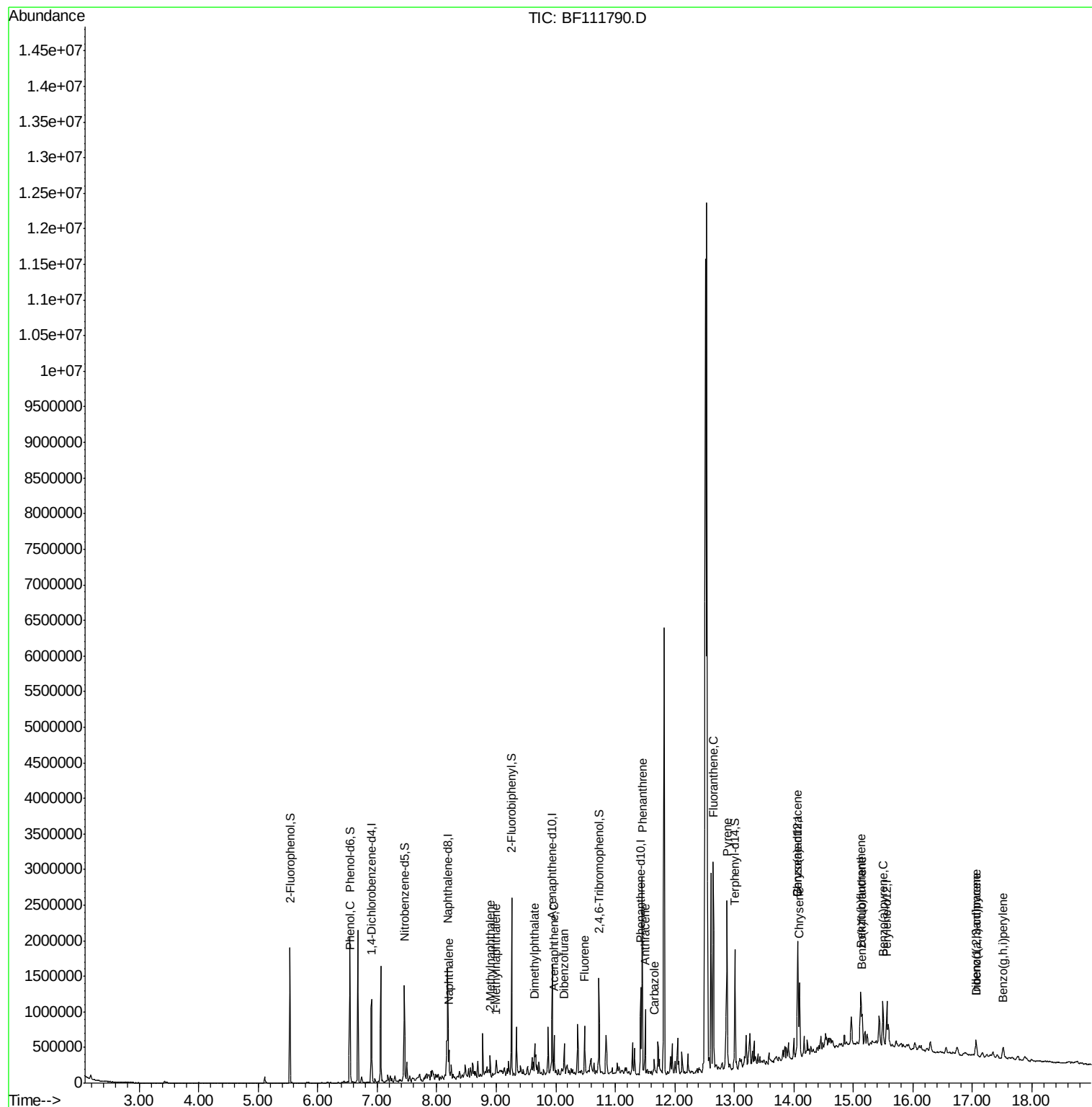
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122818\
Data File : BF111790.D
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ALS Vial : 6 Sample Multiplier: 1

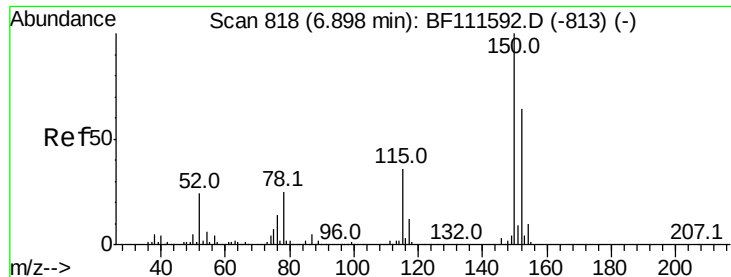
Instrument :
BNA_F
ClientSampleId :
OR-01-122618-A

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

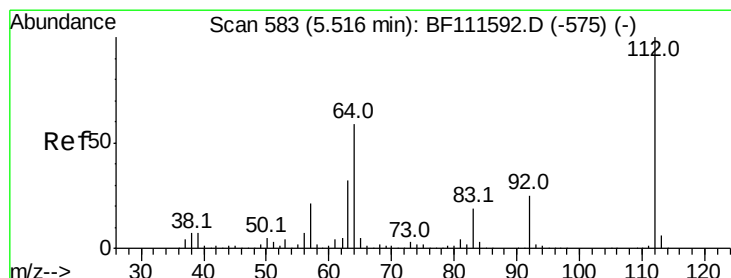
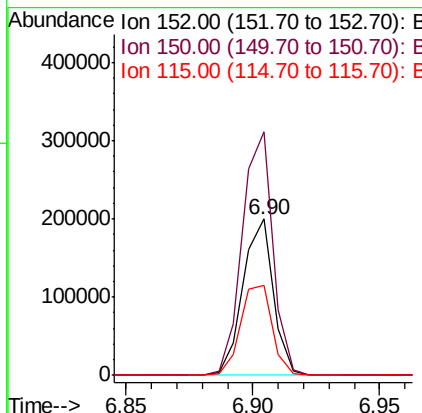
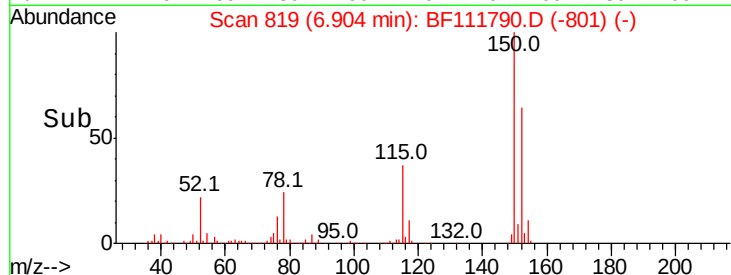
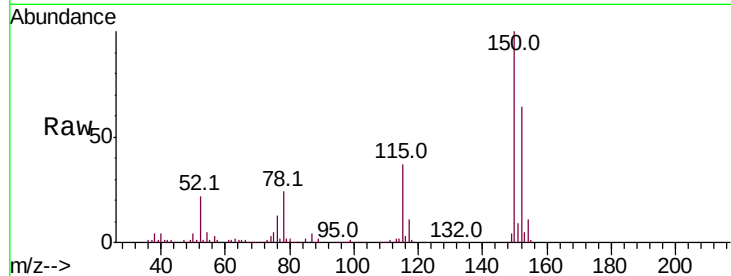
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.90 min Scan# 819
Delta R.T. 0.01 min
Lab File: BF111790.D
Acq: 28 Dec 2018 15:57

Instrument :
BNA_F
ClientSampleId :
OR-01-122618-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.8	126.6	189.8
115	57.9	50.7	76.1

Manual Integrations
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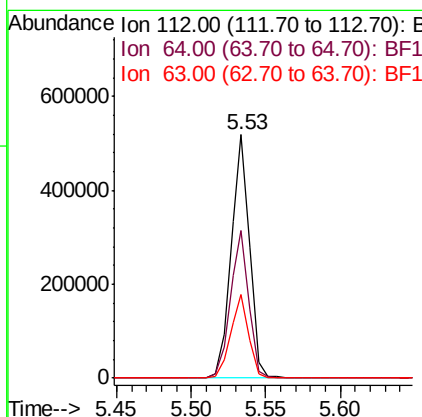
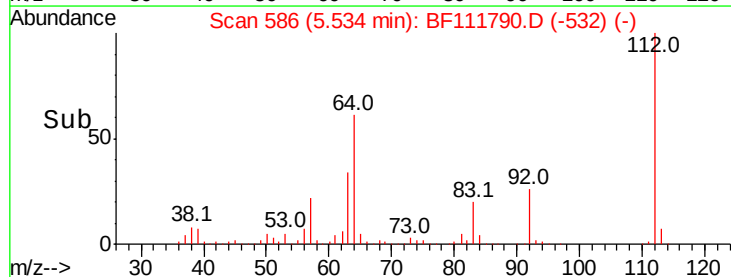
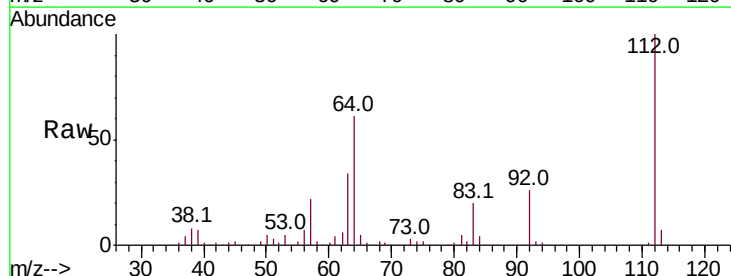
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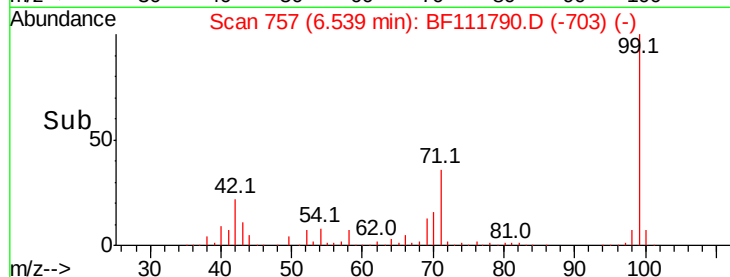
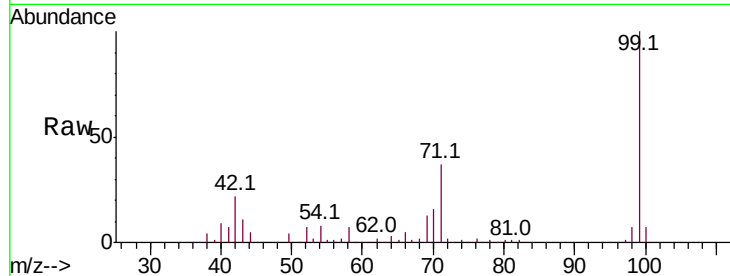
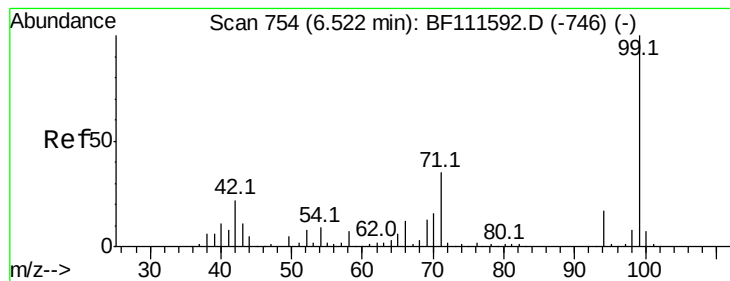


#5

2-Fluorophenol
Concen: 46.590 ng
RT: 5.53 min Scan# 586
Delta R.T. 0.02 min
Lab File: BF111790.D
Acq: 28 Dec 2018 15:57

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.8	51.8	77.6
63	34.2	26.8	40.2





#7

Phenol-d6

Concen: 47.950 ng

RT: 6.54 min Scan# 757

Delta R.T. 0.02 min

Lab File: BF111790.D

Acq: 28 Dec 2018 15:57

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		592623		
42	22.0	17.4	26.0		
71	36.5	26.1	39.1		

Instrument :

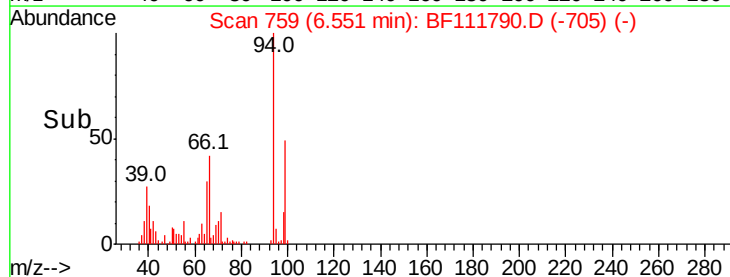
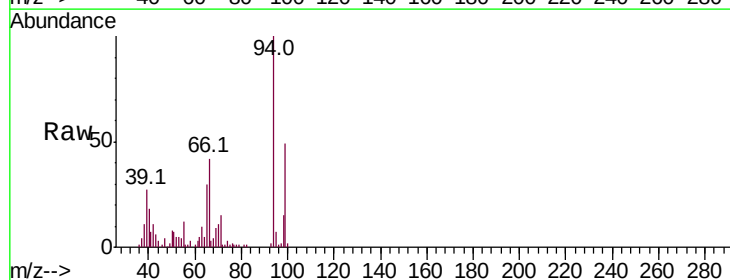
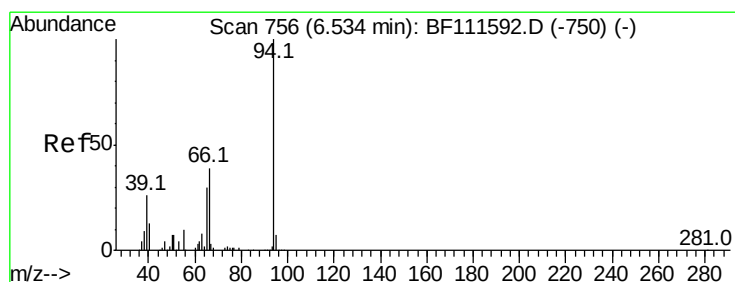
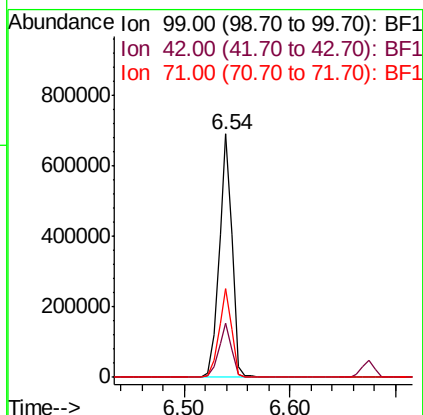
BNA_F

ClientSampleId :

OR-01-122618-A

Manual Integrations
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#10

Phenol

Concen: 2.898 ng

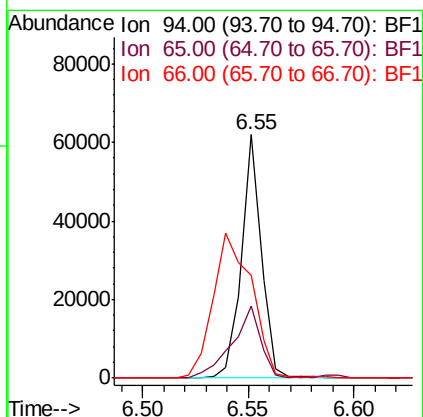
RT: 6.55 min Scan# 759

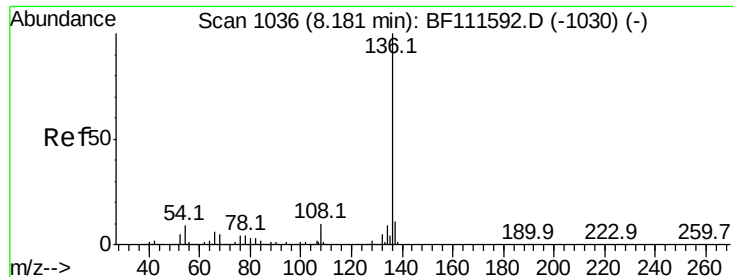
Delta R.T. 0.02 min

Lab File: BF111790.D

Acq: 28 Dec 2018 15:57

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
94	100		40416		
65	29.5	11.7	51.7		
66	42.3	21.0	61.0		





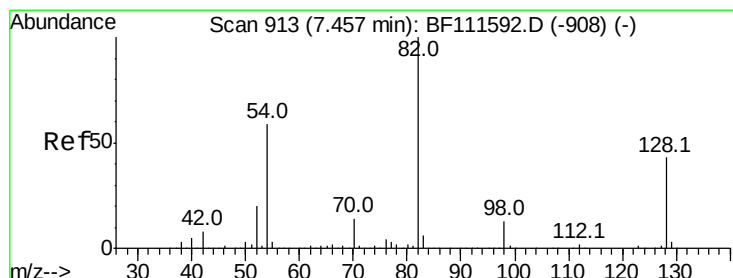
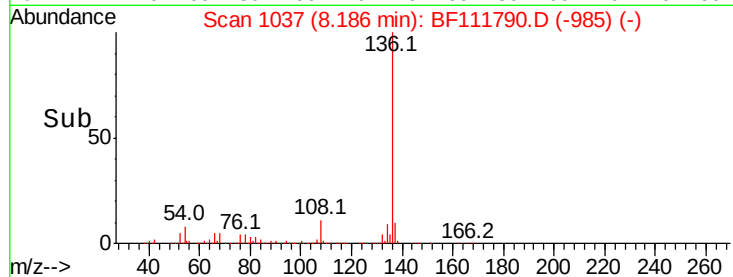
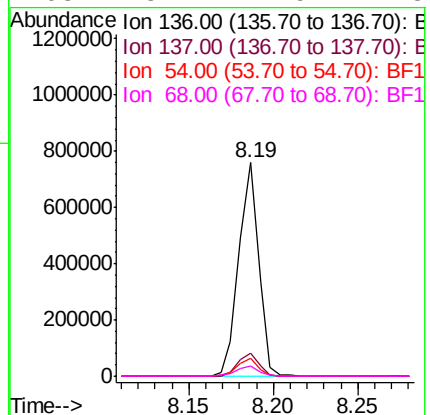
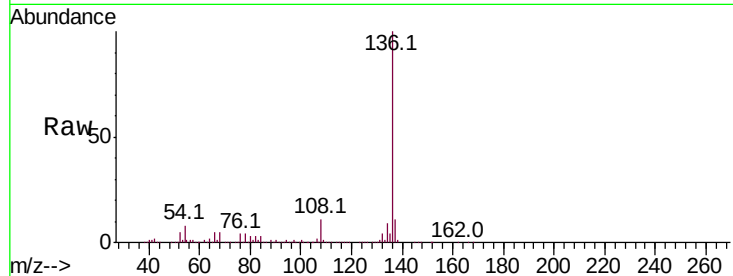
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.19 min Scan# 1037
Delta R.T. 0.01 min
Lab File: BF111790.D
Acq: 28 Dec 2018 15:57

Instrument :
BNA_F
ClientSampleId :
OR-01-122618-A

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.6	9.1	13.7	
54	8.4	7.7	11.5	
68	5.1	4.9	7.3	

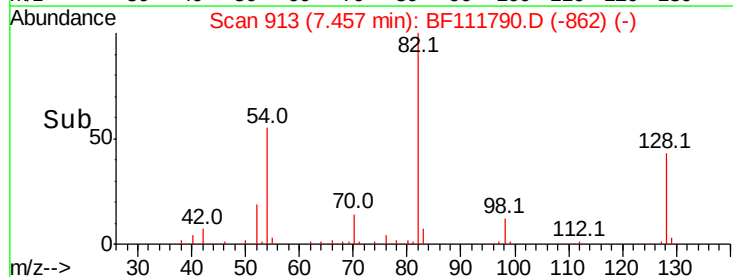
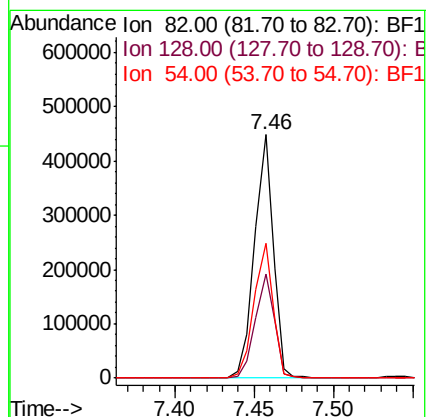
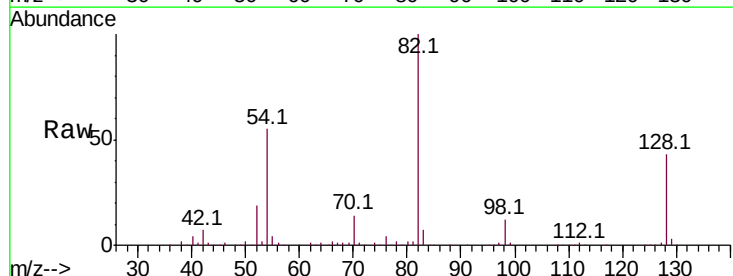
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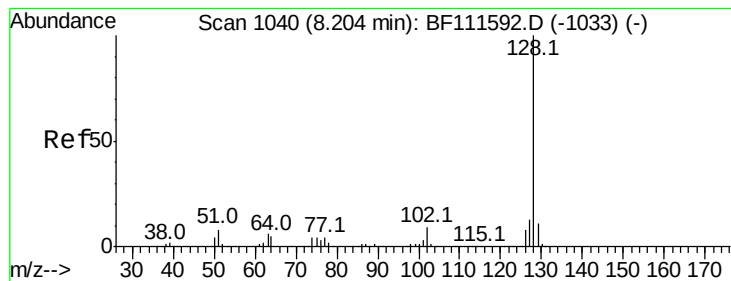
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#23
Nitrobenzene-d5
Concen: 34.710 ng
RT: 7.46 min Scan# 913
Delta R.T. -0.00 min
Lab File: BF111790.D
Acq: 28 Dec 2018 15:57

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	42.7	37.4	56.2	
54	55.4	47.6	71.4	





#31

Naphthalene

Concen: 4.719 ng

RT: 8.20 min Scan# 1040

Delta R.T. -0.00 min

Lab File: BF111790.D

Acq: 28 Dec 2018 15:57

Instrument :

BNA_F

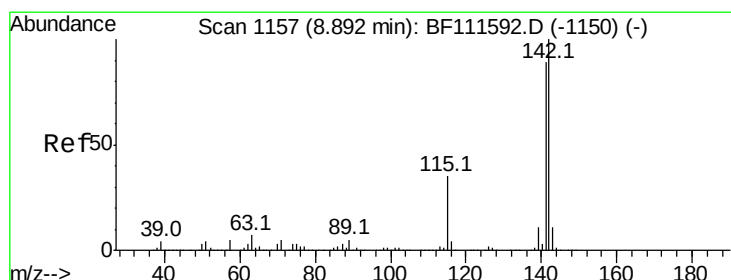
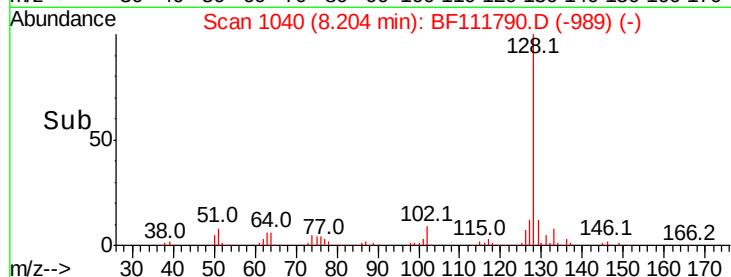
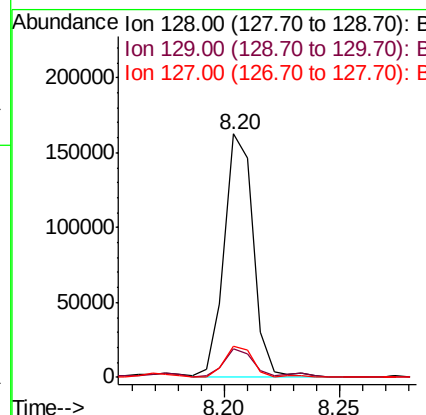
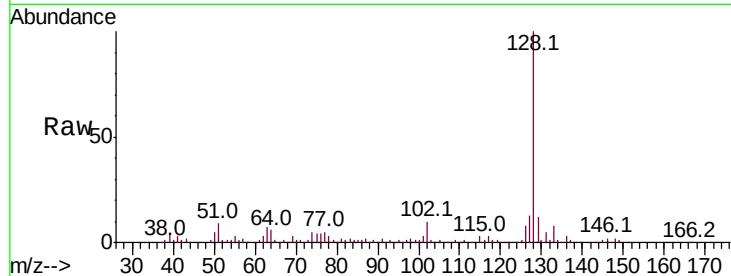
ClientSampleId :

OR-01-122618-A

Tot Ion:128	Resp:	141724
Ion Ratio	Lower	Upper
128	100	
129	11.5	9.8 14.8
127	12.6	12.0 18.0

Manual Integrations
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#37

2-Methylnaphthalene

Concen: 3.517 ng

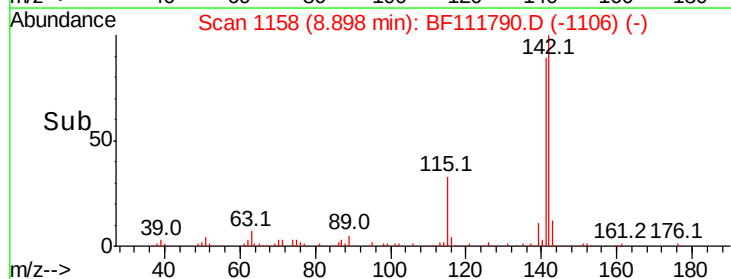
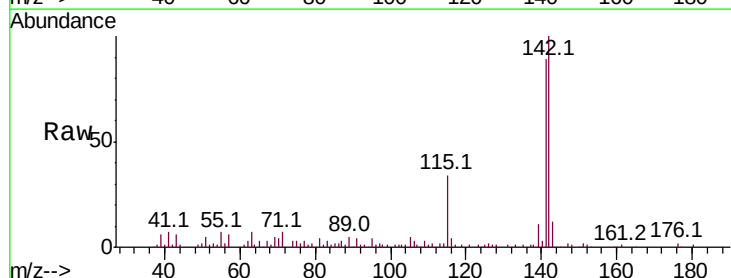
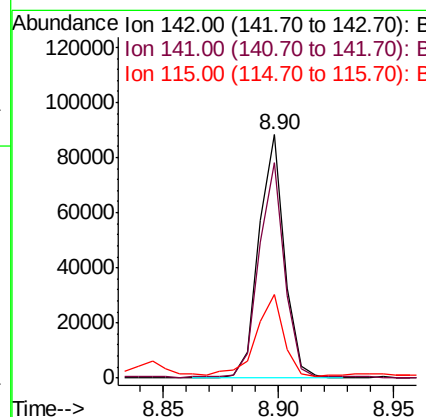
RT: 8.90 min Scan# 1158

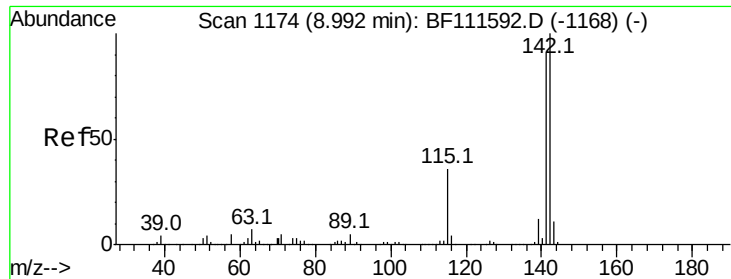
Delta R.T. 0.01 min

Lab File: BF111790.D

Acq: 28 Dec 2018 15:57

Tgt Ion:142	Resp:	68722
Ion Ratio	Lower	Upper
142	100	
141	88.5	70.6 105.8
115	34.3	27.0 40.6





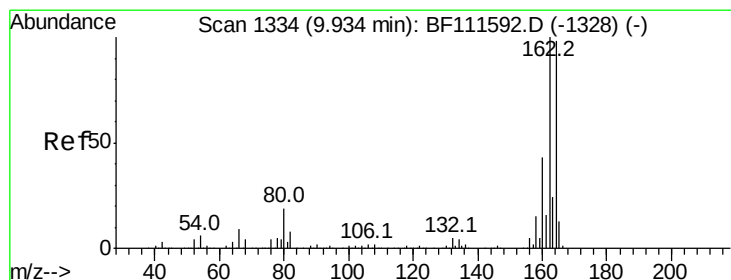
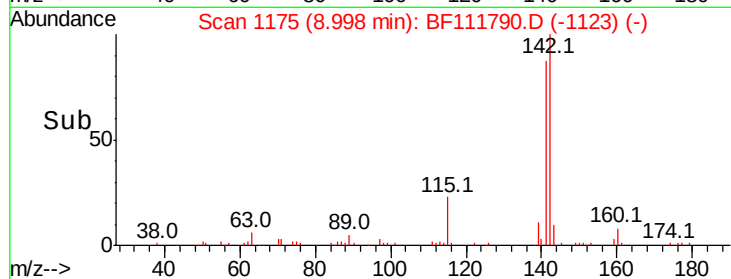
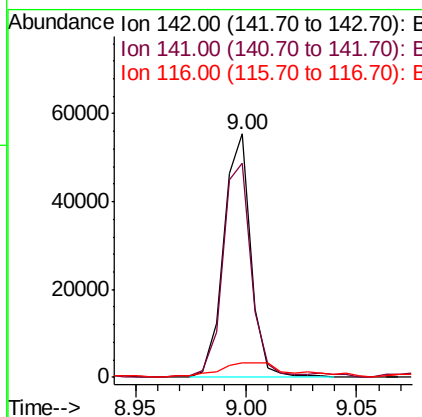
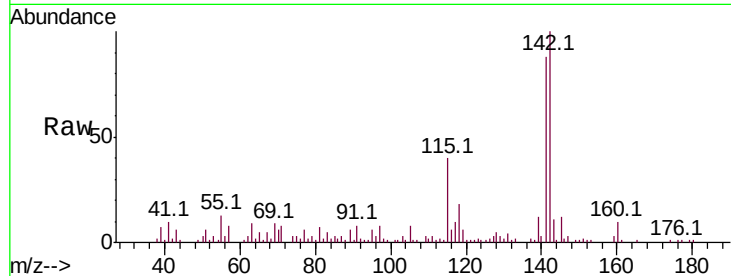
#38
1-Methylnaphthalene
Concen: 2.546 ng m
RT: 9.00 min Scan# 1175
Delta R.T. 0.01 min
Lab File: BF111790.D
Acq: 28 Dec 2018 15:57

Instrument :
BNA_F
ClientSampleId :
OR-01-122618-A

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.9	74.2	111.4
116	6.1	2.9	4.3

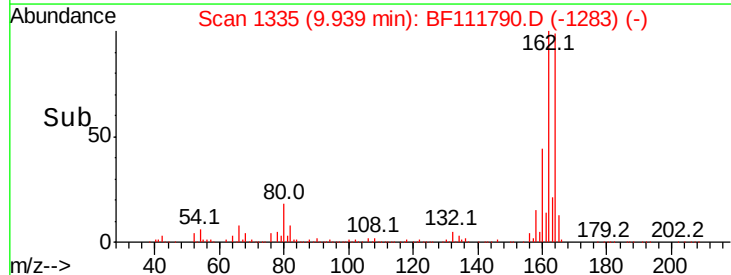
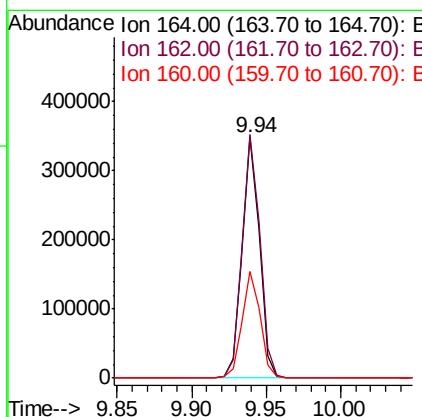
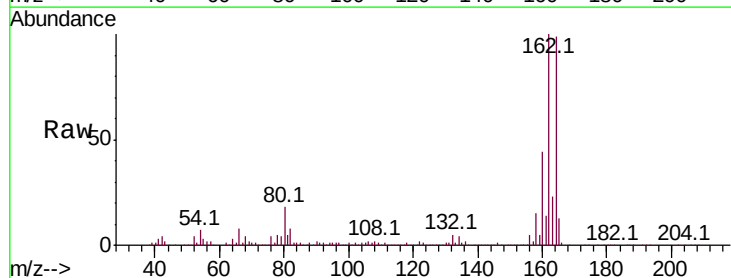
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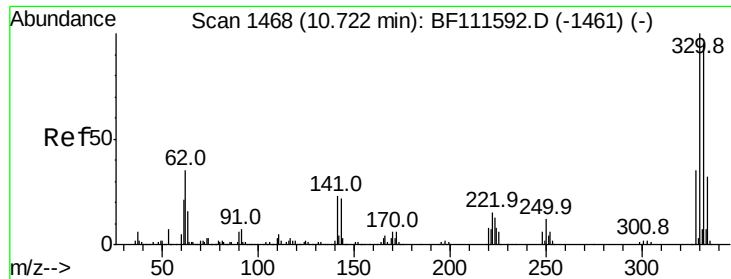
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.94 min Scan# 1335
Delta R.T. 0.01 min
Lab File: BF111790.D
Acq: 28 Dec 2018 15:57

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.2	81.4	122.0
160	44.4	35.7	53.5





#42

2,4,6-Tribromophenol

Concen: 42.374 ng

RT: 10.73 min Scan# 1469

Delta R.T. 0.01 min

Lab File: BF111790.D

Acq: 28 Dec 2018 15:57

Instrument :

BNA_F

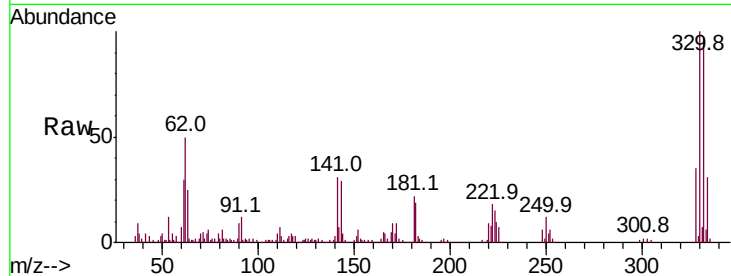
ClientSampleId :

OR-01-122618-A

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.2	76.0	114.0	
141	30.5	31.0	46.6	

Manual Integrations
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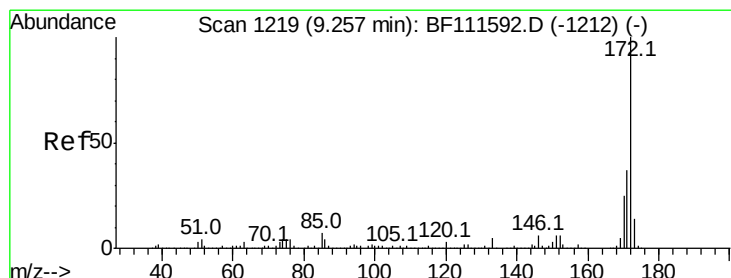
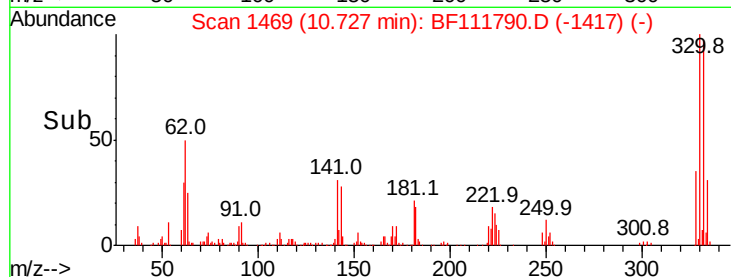
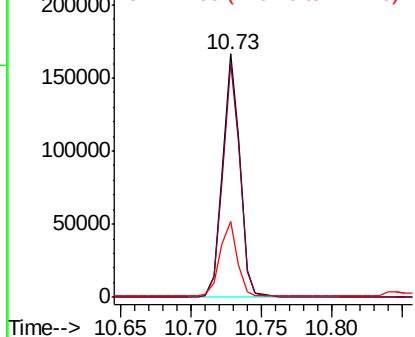


Abundance

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: 35.084 ng

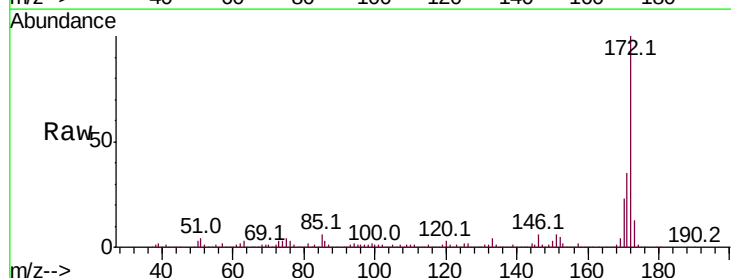
RT: 9.26 min Scan# 1219

Delta R.T. -0.00 min

Lab File: BF111790.D

Acq: 28 Dec 2018 15:57

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.3	33.0	49.4	
170	23.2	22.3	33.5	

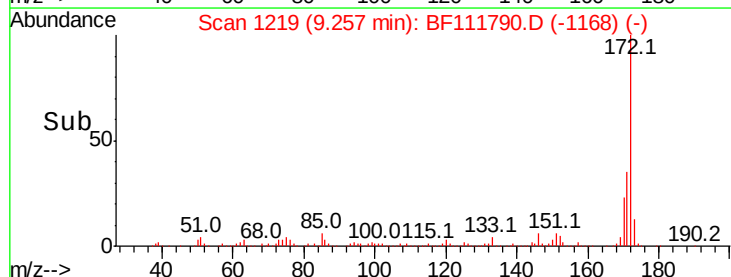
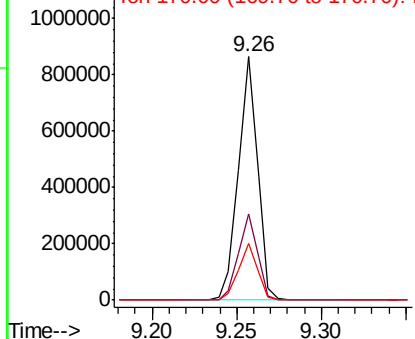


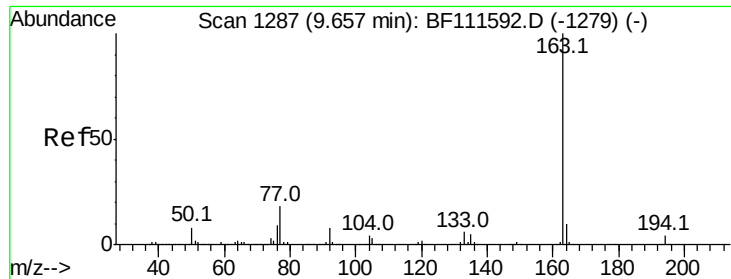
Abundance

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





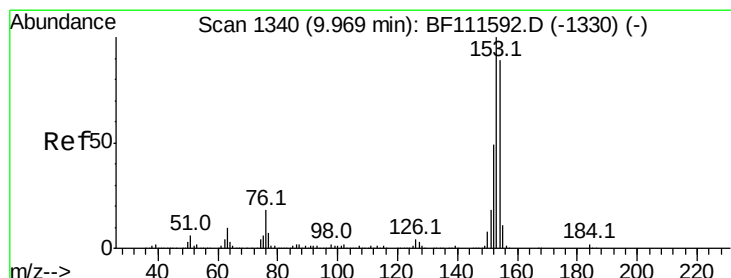
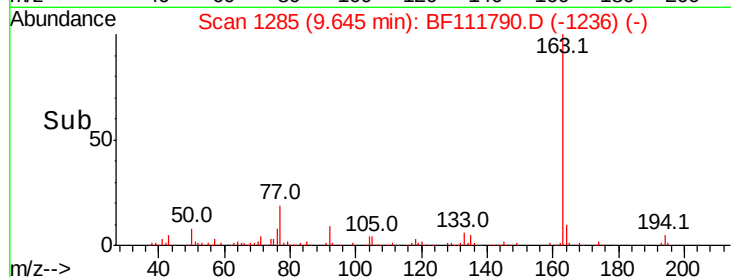
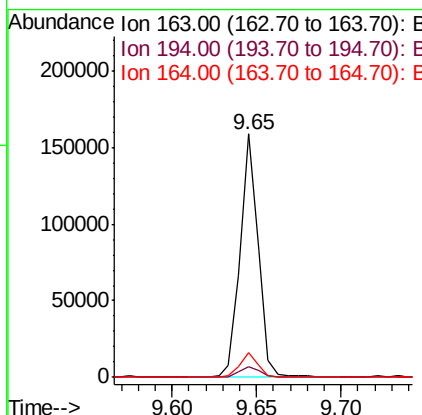
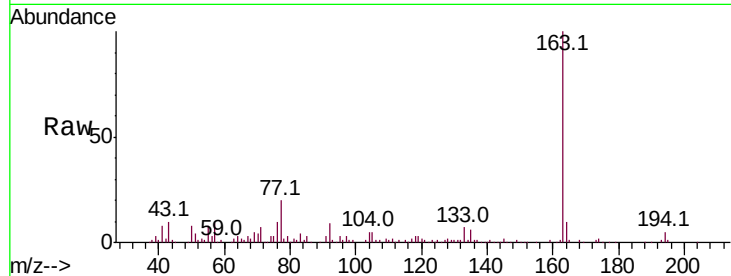
#50
Dimethylphthalate
Concen: 5.622 ng
RT: 9.65 min Scan# 1285
Delta R.T. -0.01 min
Lab File: BF111790.D
Acq: 28 Dec 2018 15:57

Instrument :
BNA_F
ClientSampleId :
OR-01-122618-A

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	4.6	3.0	4.6#	
164	10.1	8.9	13.3	

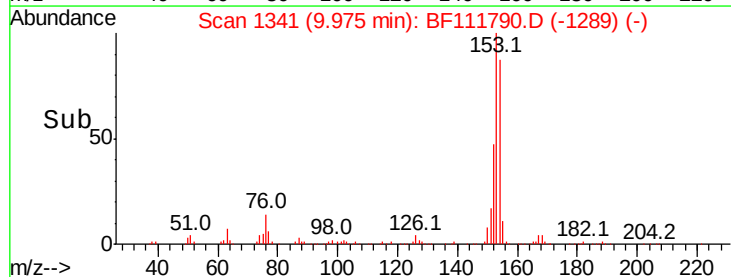
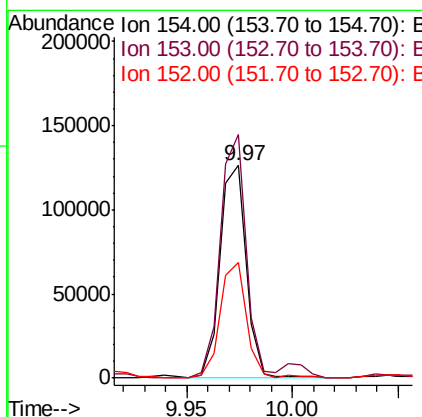
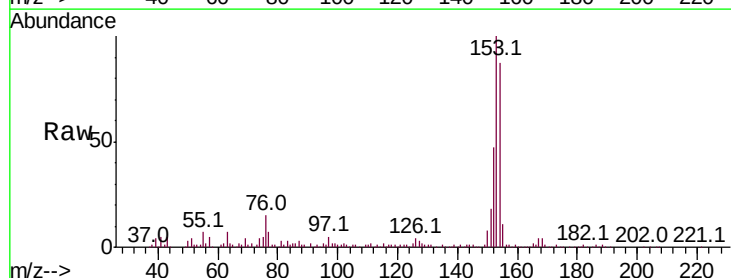
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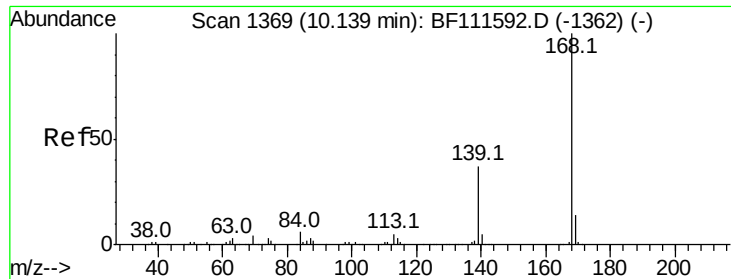
Sohil
1/2/2019 2:51:33 PM



#52
Acenaphthene
Concen: 6.419 ng
RT: 9.97 min Scan# 1341
Delta R.T. 0.01 min
Lab File: BF111790.D
Acq: 28 Dec 2018 15:57

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	114.7	87.8	131.8	
152	54.4	43.4	65.2	





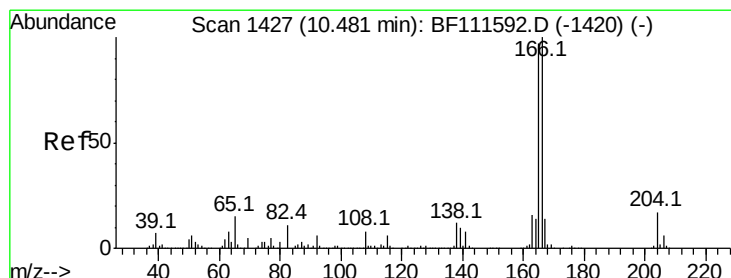
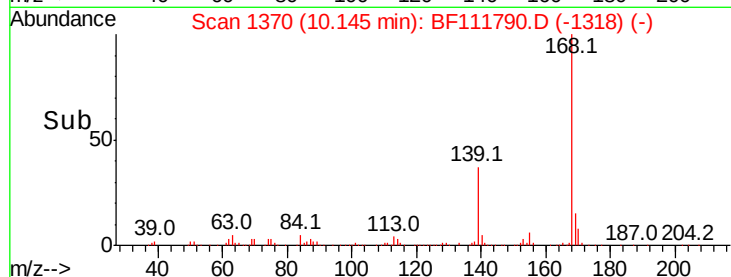
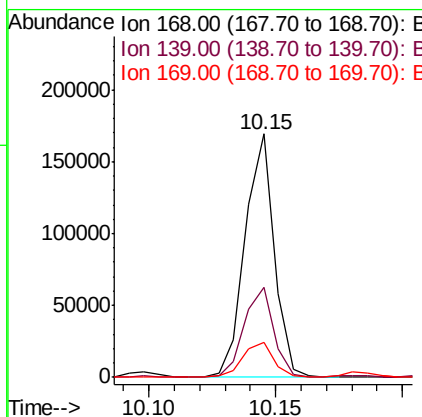
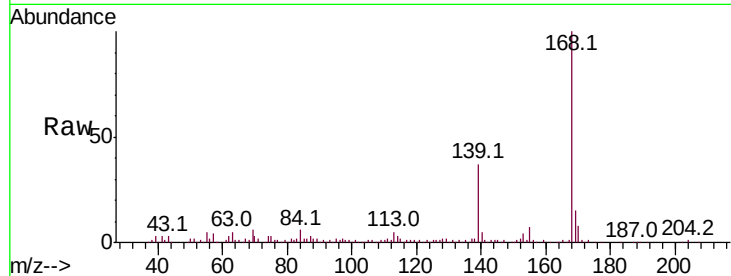
#55
Dibenzofuran
Concen: 5.243 ng
RT: 10.15 min Scan# 1370
Delta R.T. 0.01 min
Lab File: BF111790.D
Acq: 28 Dec 2018 15:57

Instrument :
BNA_F
ClientSampleId :
OR-01-122618-A

Tot Ion	Ratio	Lower	Upper
168	100		
139	37.1	32.6	49.0
169	14.5	11.8	17.6

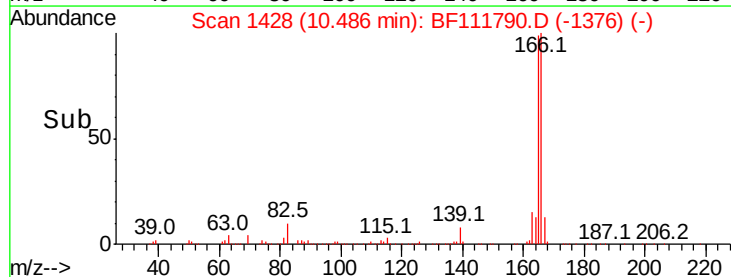
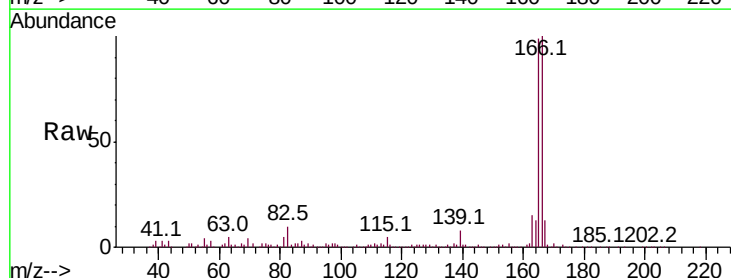
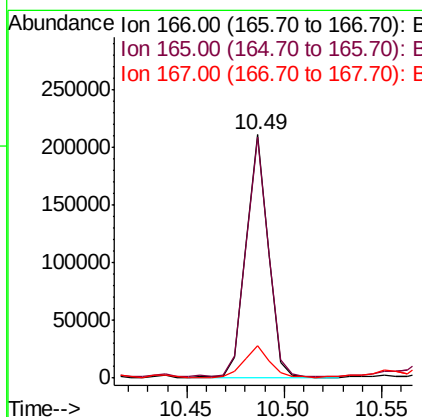
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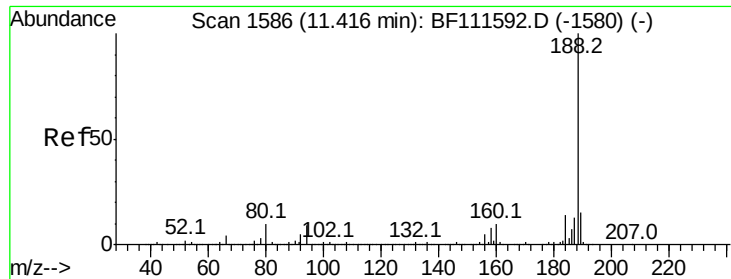
Sohil
1/2/2019 2:51:33 PM



#58
Fluorene
Concen: 8.910 ng
RT: 10.49 min Scan# 1428
Delta R.T. 0.01 min
Lab File: BF111790.D
Acq: 28 Dec 2018 15:57

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.0	78.4	117.6
167	13.4	11.2	16.8





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.43 min Scan# 1588

Delta R.T. 0.01 min

Lab File: BF111790.D

Acq: 28 Dec 2018 15:57

Instrument :

BNA_F

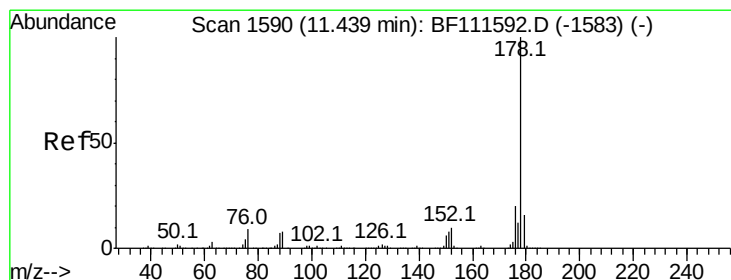
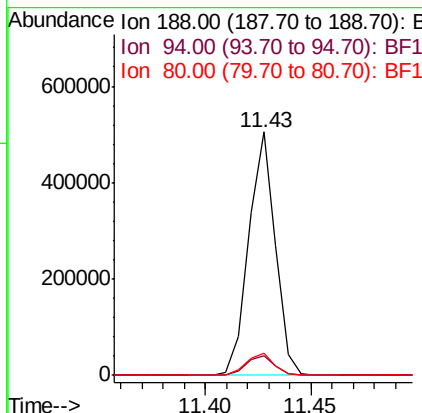
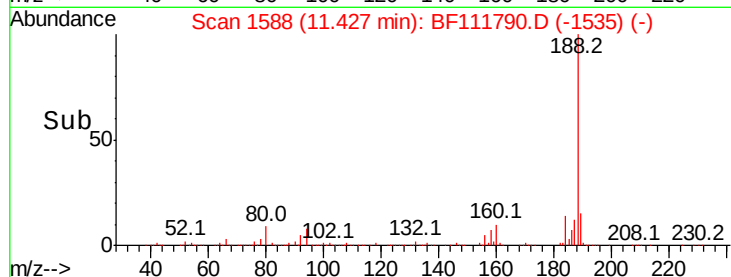
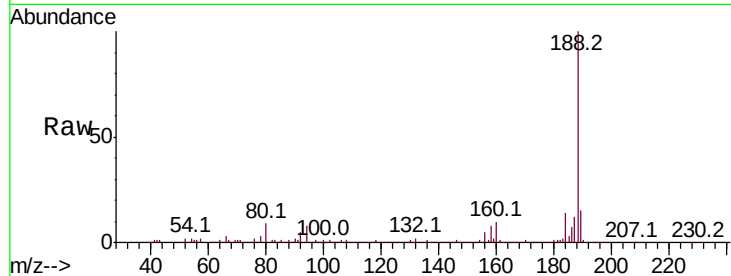
ClientSampleId :

OR-01-122618-A

Tot Ion:	188	Resp:	441701
Ion Ratio	Lower	Upper	
188	100		
94	8.1	9.6	14.4#
80	8.9	9.8	14.6#

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#71

Phenanthrene

Concen: 43.964 ng

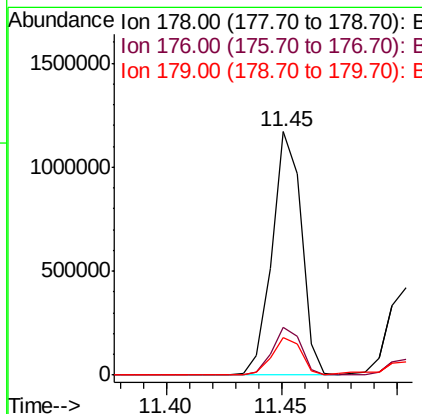
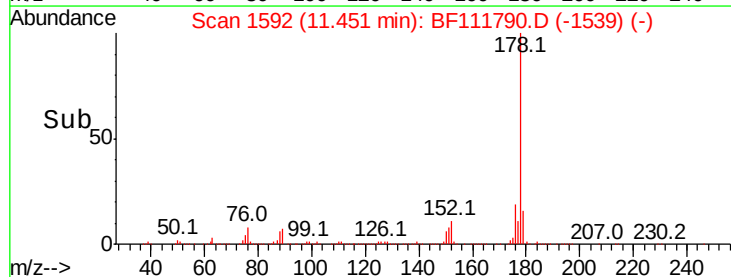
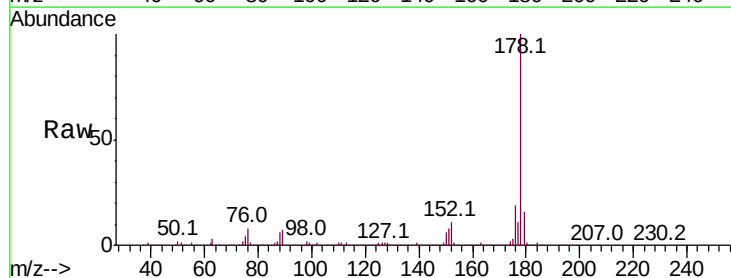
RT: 11.45 min Scan# 1592

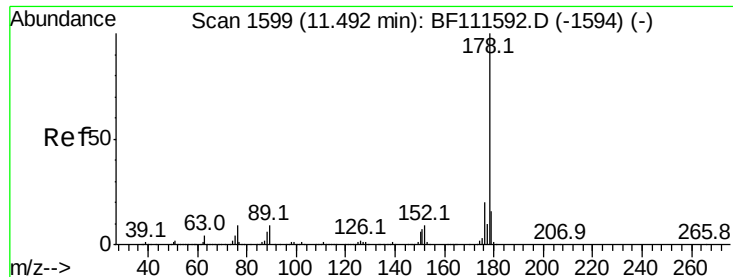
Delta R.T. 0.01 min

Lab File: BF111790.D

Acq: 28 Dec 2018 15:57

Tgt Ion:	178	Resp:	1029864
Ion Ratio	Lower	Upper	
178	100		
176	19.4	18.1	27.1
179	15.6	14.0	21.0





#72

Anthracene

Concen: 14.718 ng

RT: 11.50 min Scan# 1601

Delta R.T. 0.01 min

Lab File: BF111790.D

Acq: 28 Dec 2018 15:57

Instrument :

BNA_F

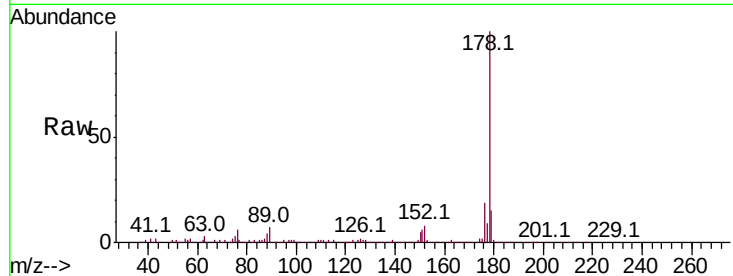
ClientSampleId :

OR-01-122618-A

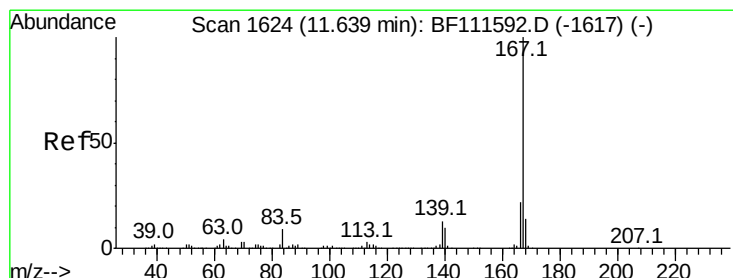
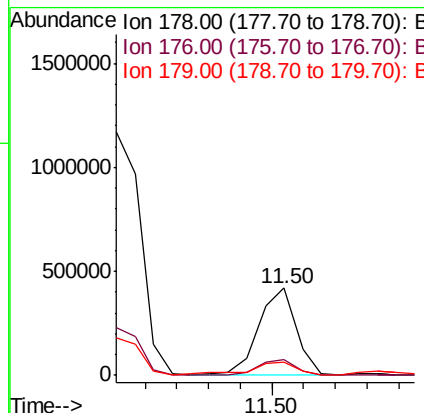
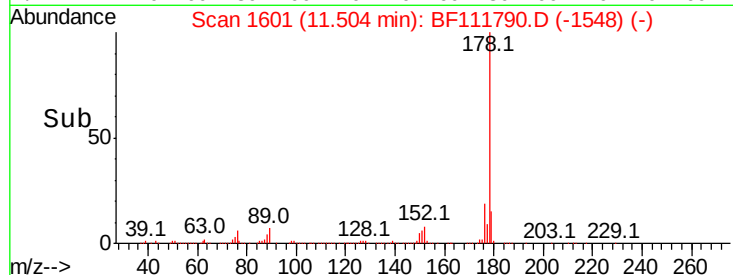
Tot Ion:178	Resp:	346054
Ion Ratio	Lower	Upper
178	100	
176	18.6	17.2 25.8
179	15.2	13.8 20.8

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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



#73

Carbazole

Concen: 3.273 ng

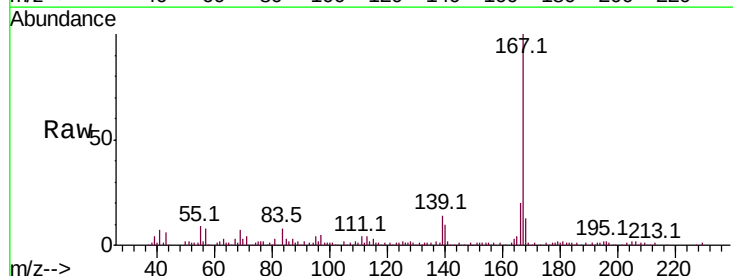
RT: 11.65 min Scan# 1626

Delta R.T. 0.01 min

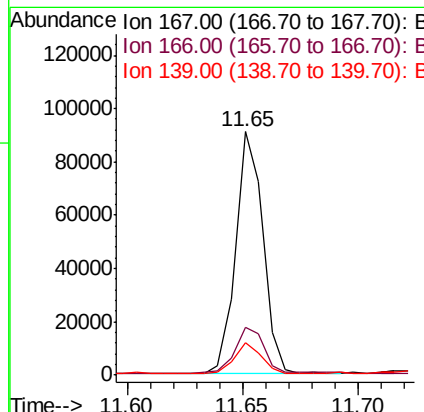
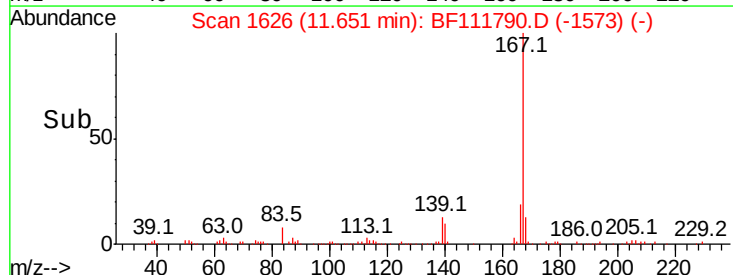
Lab File: BF111790.D

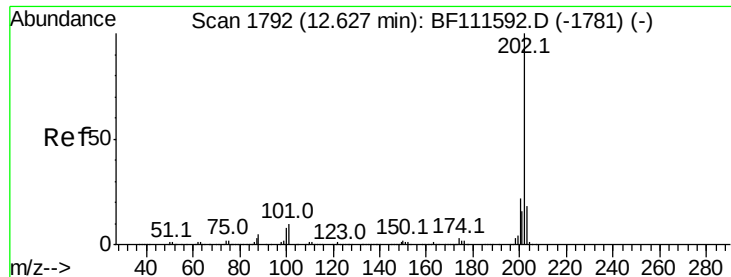
Acq: 28 Dec 2018 15:57

Tgt Ion:167	Resp:	74718
Ion Ratio	Lower	Upper
167	100	
166	19.5	19.3 28.9
139	13.5	11.9 17.9



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 48.674 ng

RT: 12.64 min Scan# 1795

Delta R.T. 0.02 min

Lab File: BF111790.D

Acq: 28 Dec 2018 15:57

Instrument :

BNA_F

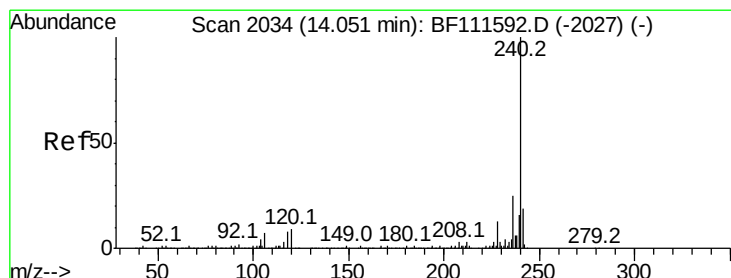
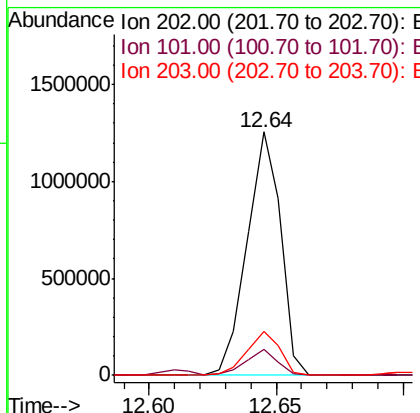
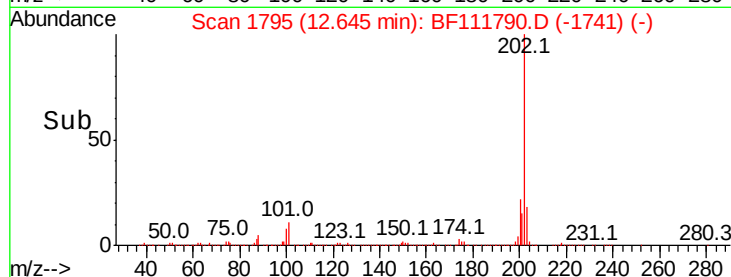
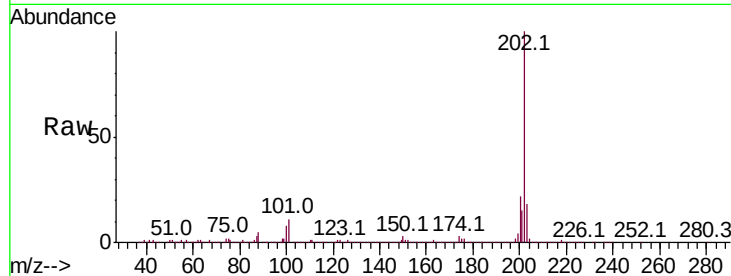
ClientSampleId :

OR-01-122618-A

Tot Ion:	202	Resp:	1154610
Ion Ratio	Lower	Upper	
202	100		
101	10.6	0.0	33.8
203	17.8	0.0	38.6

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#76

Chrysene-d12

Concen: 20.000 ng

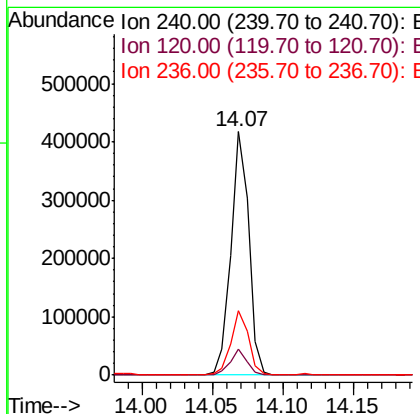
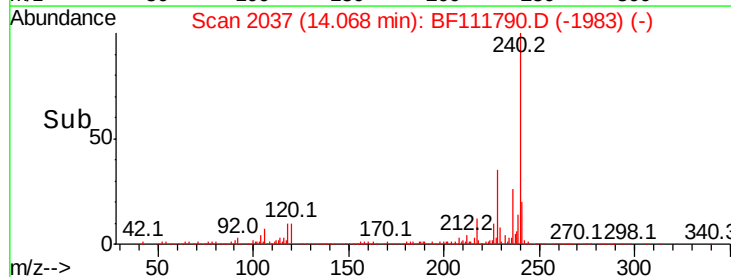
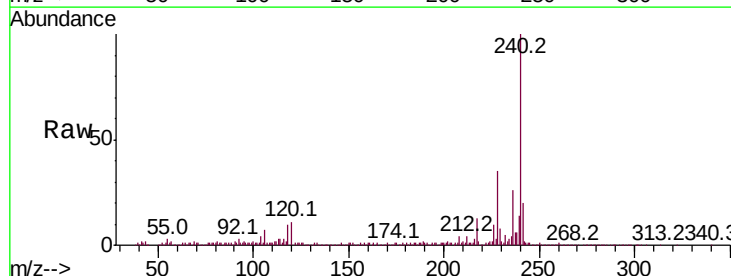
RT: 14.07 min Scan# 2037

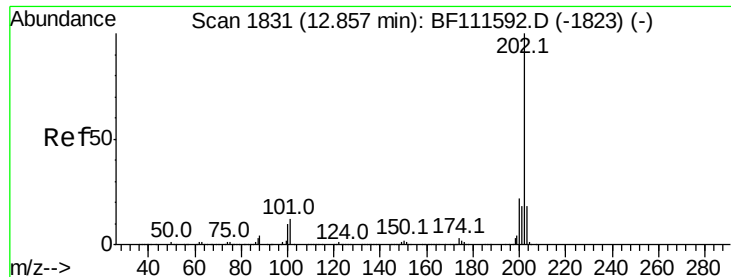
Delta R.T. 0.02 min

Lab File: BF111790.D

Acq: 28 Dec 2018 15:57

Tgt Ion:	240	Resp:	366414
Ion Ratio	Lower	Upper	
240	100		
120	10.6	12.2	18.2#
236	26.5	20.2	30.2





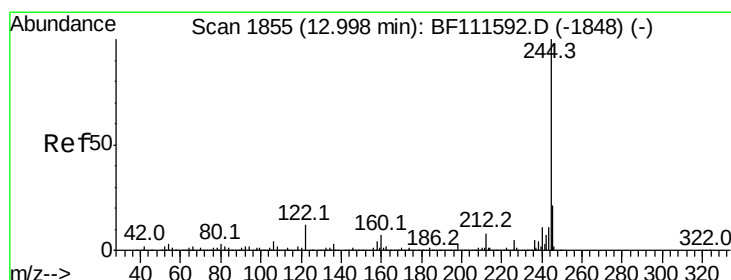
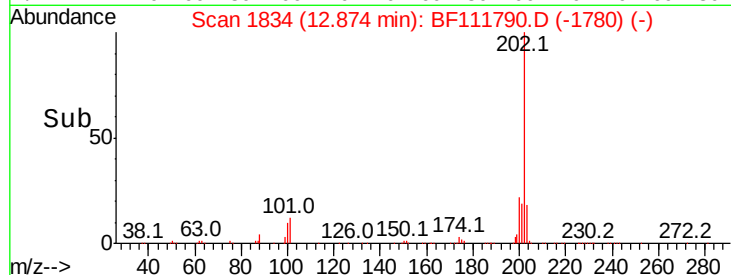
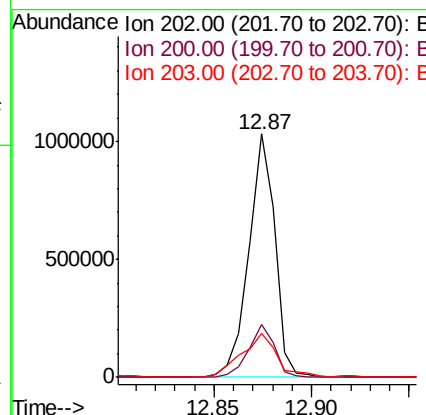
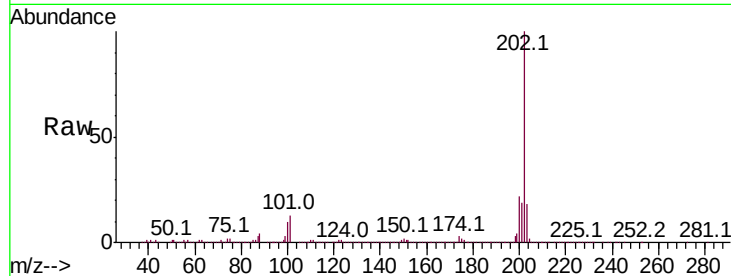
#78
Pvrene
Concen: 37.063 ng
RT: 12.87 min Scan# 1834
Delta R.T. 0.02 min
Lab File: BF111790.D
Acq: 28 Dec 2018 15:57

Instrument :
BNA_F
ClientSampleId :
OR-01-122618-A

Tot Ion	Ratio	Resp	Lower	Upper
202	100			
200	21.8	19.0	28.4	
203	17.9	15.2	22.8	

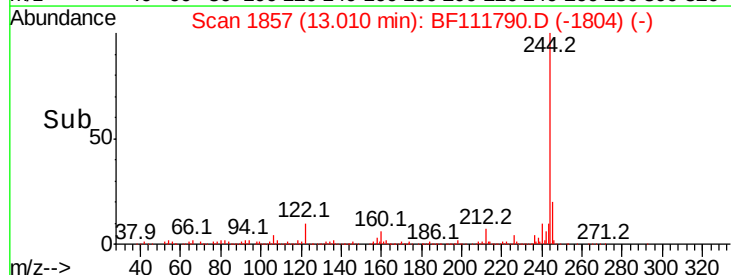
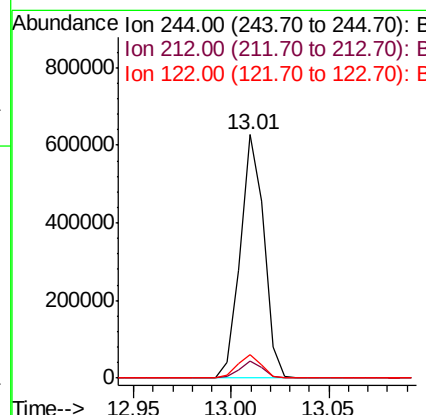
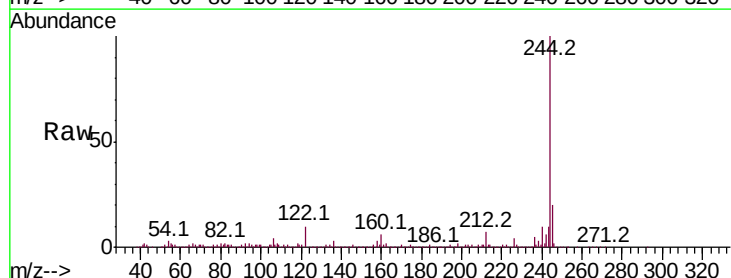
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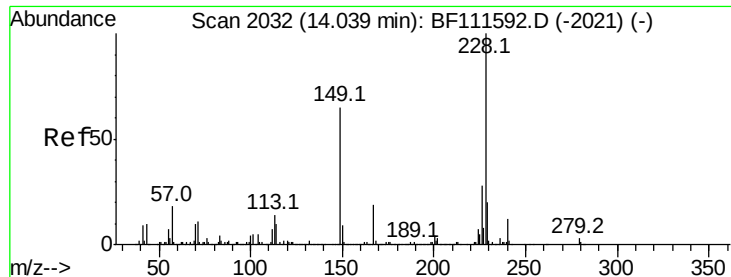
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#79
Terphenyl-d14
Concen: 27.285 ng
RT: 13.01 min Scan# 1857
Delta R.T. 0.01 min
Lab File: BF111790.D
Acq: 28 Dec 2018 15:57

Tgt Ion	Ratio	Resp	Lower	Upper
244	100			
212	6.8	5.7	8.5	
122	9.8	13.1	19.7	





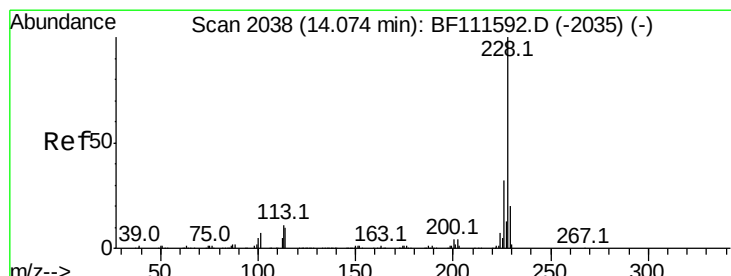
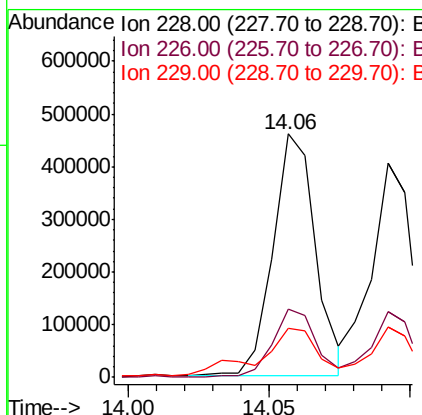
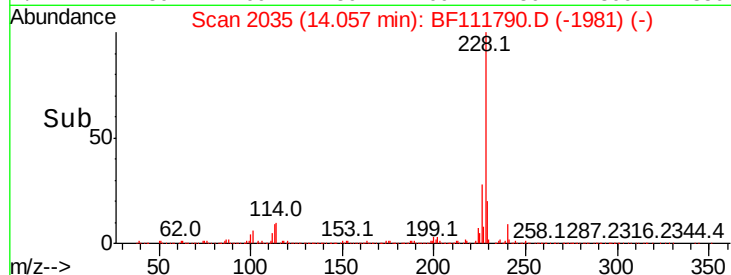
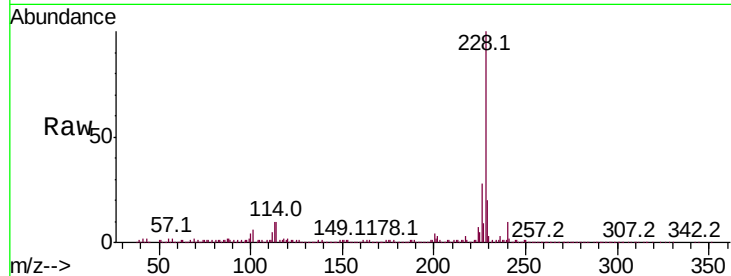
#81
 Benzo(a)anthracene
 Concen: 23.026 ng
 RT: 14.06 min Scan# 2035
 Delta R.T. 0.02 min
 Lab File: BF111790.D
 Acq: 28 Dec 2018 15:57

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-122618-A

Tot Ion:	228	Resp:	481492
Ion Ratio	Lower	Upper	
228	100		
226	28.2	22.6	34.0
229	20.0	16.3	24.5

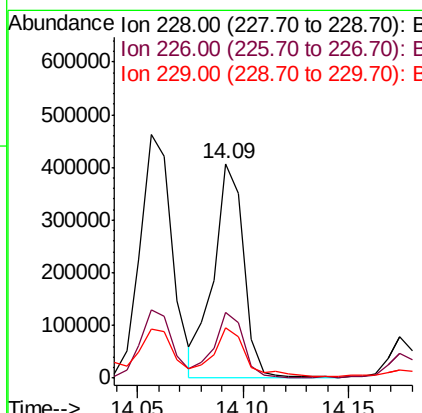
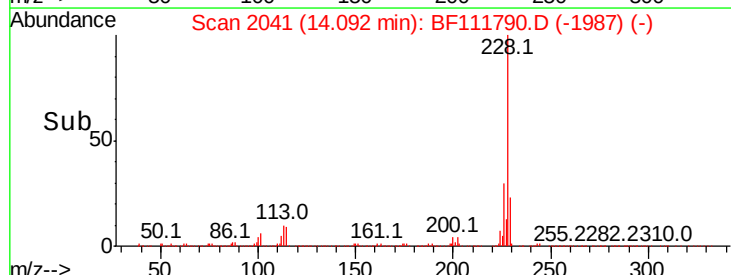
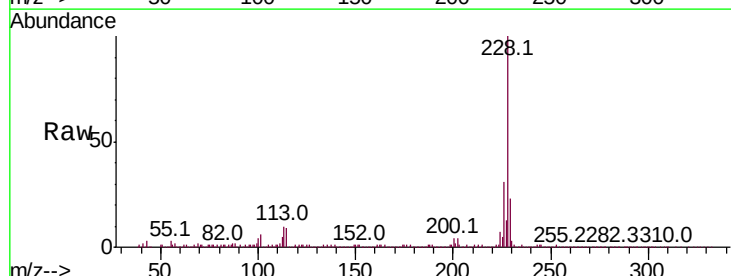
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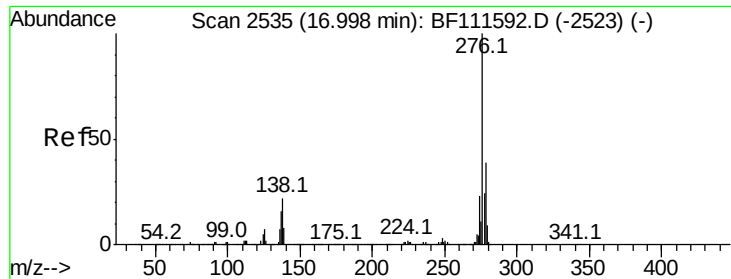
Sohil
 1/2/2019 2:51:33 PM



#83
 Chrysene
 Concen: 19.367 ng
 RT: 14.09 min Scan# 2041
 Delta R.T. 0.02 min
 Lab File: BF111790.D
 Acq: 28 Dec 2018 15:57

Tgt Ion:	228	Resp:	398044
Ion Ratio	Lower	Upper	
228	100		
226	30.5	25.3	37.9
229	23.3	17.2	25.8





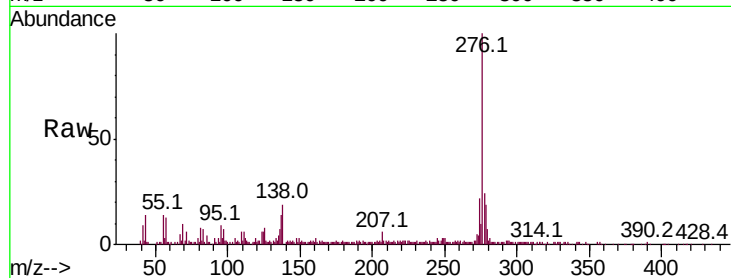
#86
Indeno(1,2,3-cd)pyrene
Concen: 9.440 ng
RT: 17.06 min Scan# 2546
Delta R.T. 0.06 min
Lab File: BF111790.D
Acq: 28 Dec 2018 15:57

Instrument :
BNA_F
ClientSampleId :
OR-01-122618-A

Tot Ion	Ratio	Lower	Upper
276	100		
138	19.1	27.8	41.6#
277	24.2	20.1	30.1

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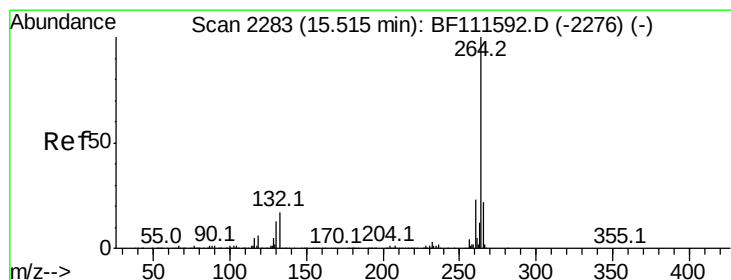
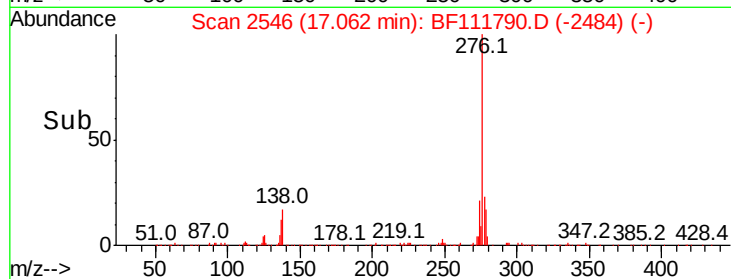
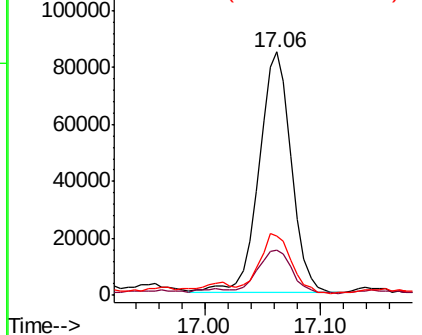


Abundance

Ion 276.00 (275.70 to 276.70): E

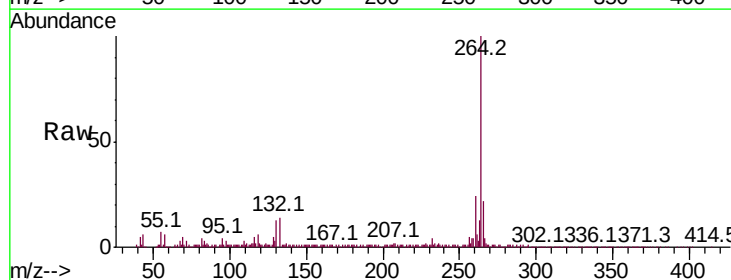
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.56 min Scan# 2291
Delta R.T. 0.05 min
Lab File: BF111790.D
Acq: 28 Dec 2018 15:57

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.3	27.5
265	22.4	17.7	26.5

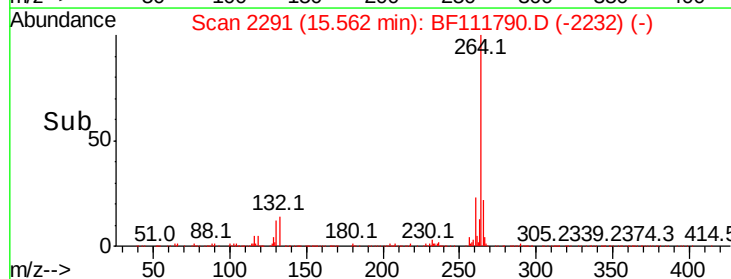
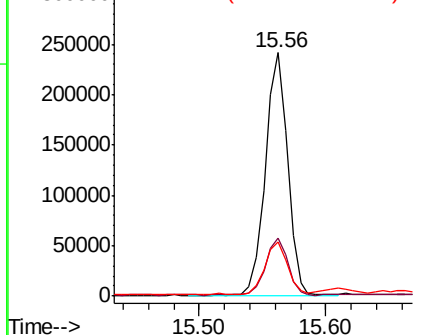


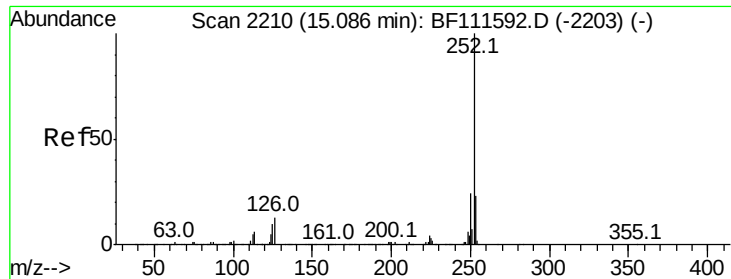
Abundance

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





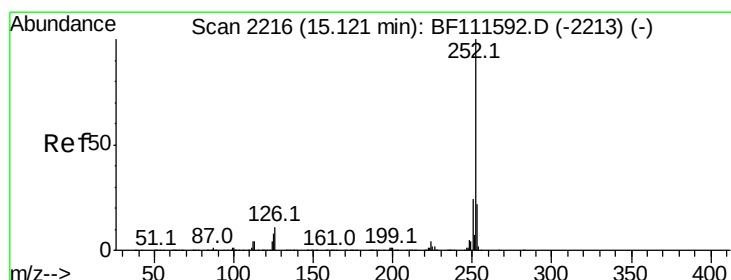
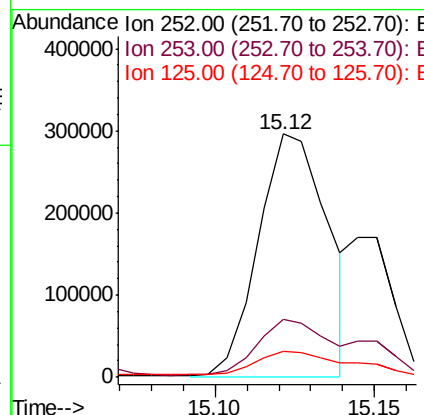
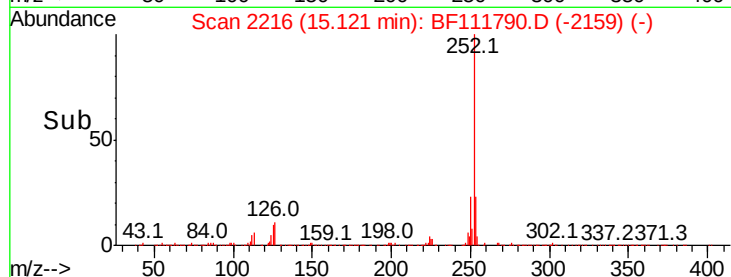
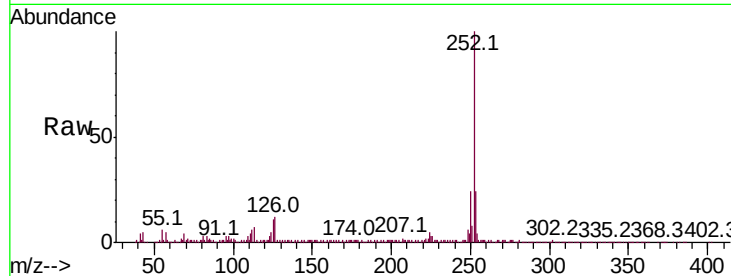
#88
Benzo(b)fluoranthene
Concen: 25.933 ng m
RT: 15.12 min Scan# 2216
Delta R.T. 0.04 min
Lab File: BF111790.D
Acq: 28 Dec 2018 15:57

Instrument :
BNA_F
ClientSampleId :
OR-01-122618-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.2	27.2
125	10.6	10.4	15.6

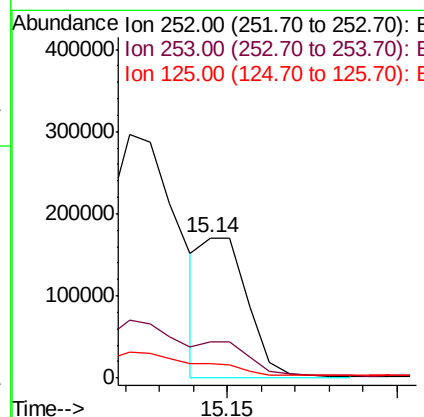
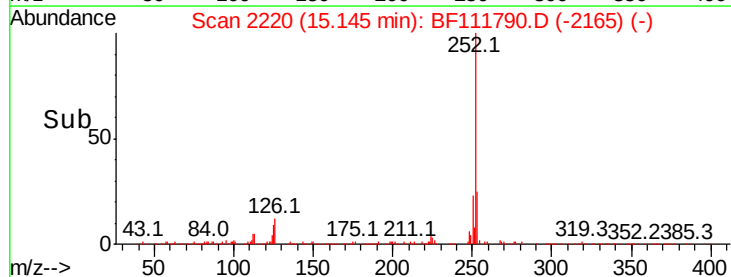
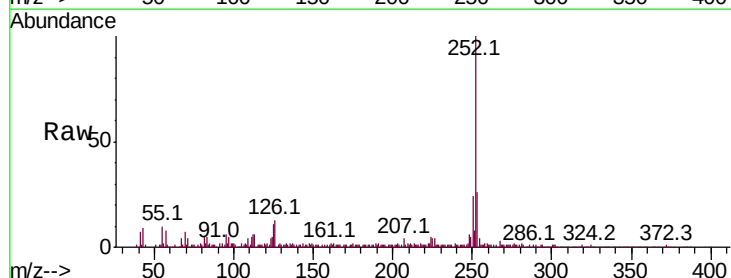
Manual Integrations
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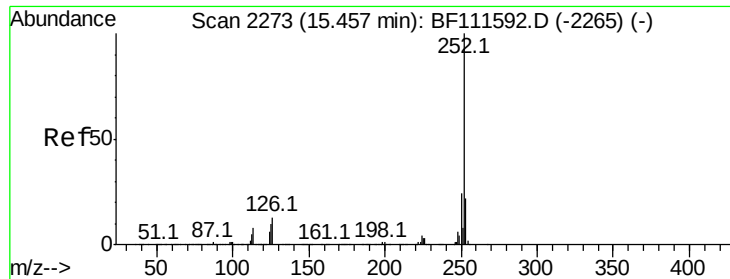
Sohil
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#89
Benzo(k)fluoranthene
Concen: 9.847 ng m
RT: 15.14 min Scan# 2220
Delta R.T. 0.02 min
Lab File: BF111790.D
Acq: 28 Dec 2018 15:57

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.1	18.1	27.1
125	10.5	9.8	14.8





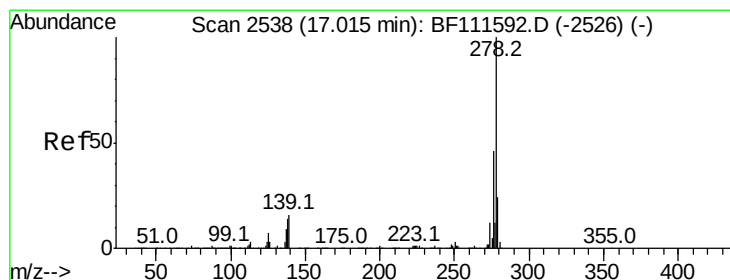
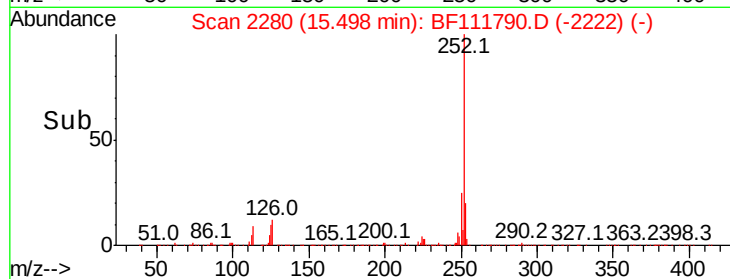
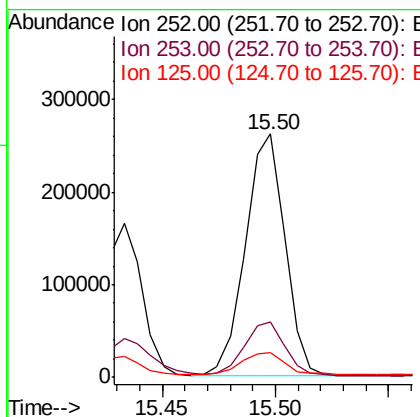
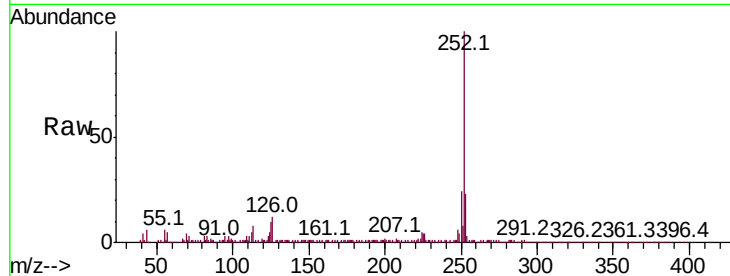
#90
Benzo(a)pyrene
Concen: 20.357 ng m
RT: 15.50 min Scan# 2280
Delta R.T. 0.04 min
Lab File: BF111790.D
Acq: 28 Dec 2018 15:57

Instrument :
BNA_F
ClientSampleId :
OR-01-122618-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.8	26.8
125	10.2	12.3	18.5#

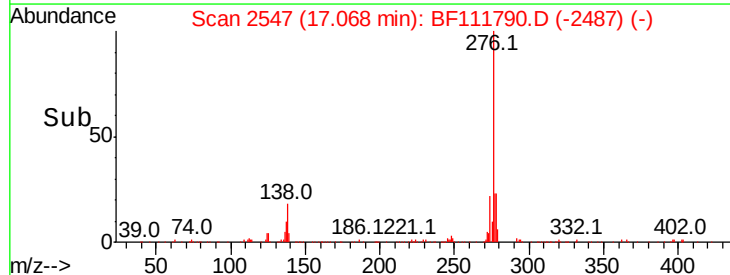
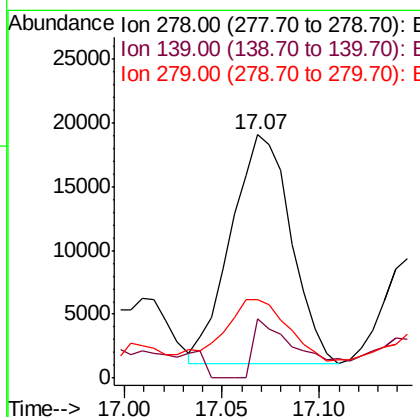
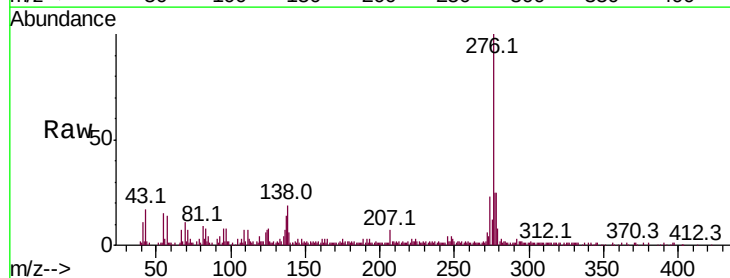
Manual Integrations
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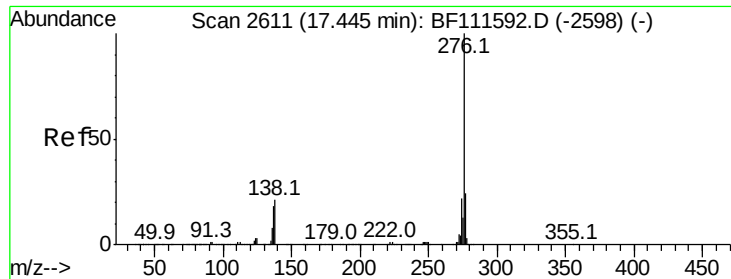
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#91
Dibenzo(a,h)anthracene
Concen: 2.784 ng
RT: 17.07 min Scan# 2547
Delta R.T. 0.05 min
Lab File: BF111790.D
Acq: 28 Dec 2018 15:57

Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.4	18.2	27.4
279	32.1	19.0	28.6#





#92
 Benzo(a,h,i)perylene
 Concen: 10.747 ng
 RT: 17.52 min Scan# 2623
 Delta R.T. 0.07 min
 Lab File: BF111790.D
 Acq: 28 Dec 2018 15:57

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-122618-A

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.2	28.8
138	21.1	24.9	37.3

Manual Integrations
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