

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102017\
 Data File : BF099705.D
 Acq On : 20 Oct 2017 17:15
 Operator : SJ/JU
 Sample : I5988-01 10X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RBR251373-78

Manual Integrations
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 10/23/2017 3:26:18 PM

Quant Time: Oct 22 00:18:33 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 20 13:11:43 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	89175	20.00	ng	-0.01
21) Naphthalene-d8	8.09	136	345413	20.00	ng	-0.01
38) Acenaphthene-d10	9.85	164	128841	20.00	ng	-0.01
63) Phenanthrene-d10	11.33	188	178671	20.00	ng	-0.01
75) Chrysene-d12	13.98	240	155006	20.00	ng	0.00
86) Perylene-d12	15.44	264	175907	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	40954	7.31	ng	0.00
7) Phenol-d6	6.46	99	50996	7.38	ng	0.00
23) Nitrobenzene-d5	7.38	82	26970	5.01	ng	-0.01
41) 2,4,6-Tribromophenol	10.64	330	5820	5.52	ng	-0.01
44) 2-Fluorobiphenyl	9.16	172	55140	7.14	ng	-0.01
78) Terphenyl-d14	12.92	244	32081	4.71	ng	0.00
Target Compounds						
51) Acenaphthene	9.88	154	55577	6.894	ng	96
54) Dibenzofuran	10.05	168	32269	3.006	ng	# 97
57) Fluorene	10.39	166	49088	5.690	ng	100
70) Phenanthrene	11.36	178	701637	73.364	ng	99
71) Anthracene	11.41	178	216013	22.075	ng	98
72) Carbazole	11.57	167	23426	2.445	ng	96
74) Fluoranthene	12.56	202	899224	92.853	ng	99
77) Pyrene	12.79	202	1009931	85.444	ng	99
80) Benzo(a)anthracene	13.97	228	508942	54.224	ng	98
82) Chrysene	14.01	228	449172	50.266	ng	98
85) Indeno(1,2,3-cd)pyrene	16.91	276	220333	30.824	ng	98
87) Benzo(b)fluoranthene	15.02	252	546689m	50.547	ng	
88) Benzo(k)fluoranthene	15.04	252	142916m	13.379	ng	
89) Benzo(a)pyrene	15.39	252	431060	43.419	ng	97
90) Dibenzo(a,h)anthracene	16.91	278	63434m	7.984	ng	
91) Benzo(g,h,i)perylene	17.36	276	218222	27.786	ng	94

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

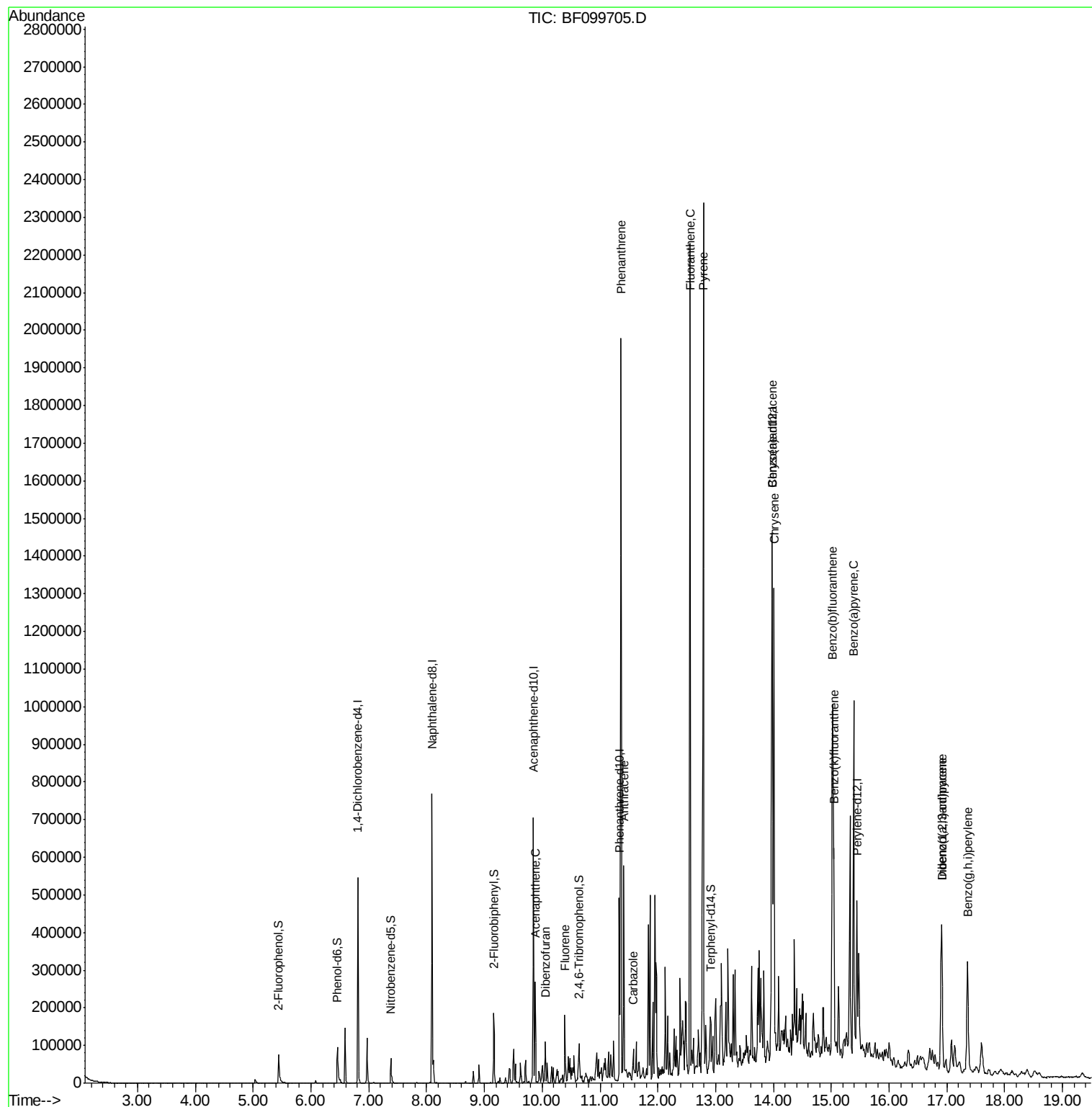
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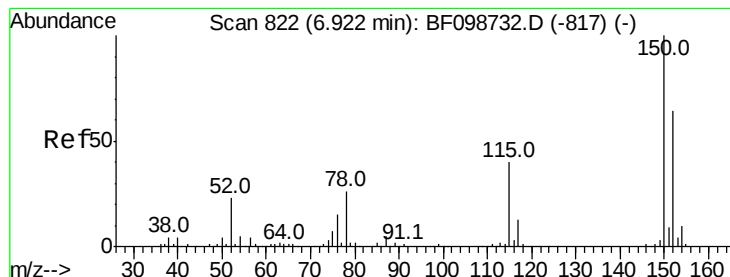
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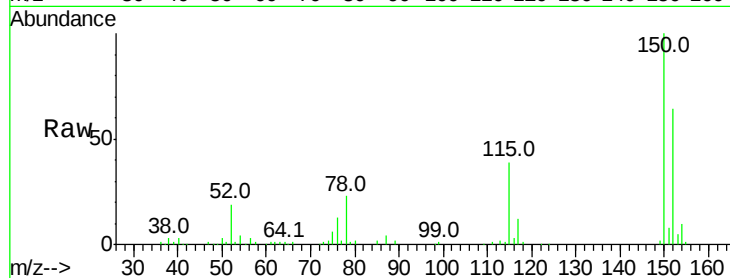
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.81 min Scan# 803
 Delta R.T. -0.01 min
 Lab File: BF099705.D
 Acq: 20 Oct 2017 17:15

Instrument :
 BNA_F
 ClientSampleId :
 RBR251373-78

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.7	124.6	186.8
115	60.4	50.1	75.1

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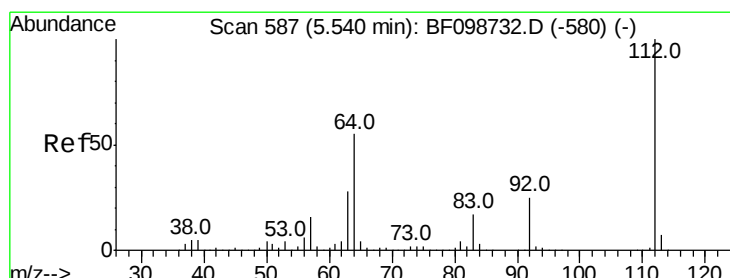
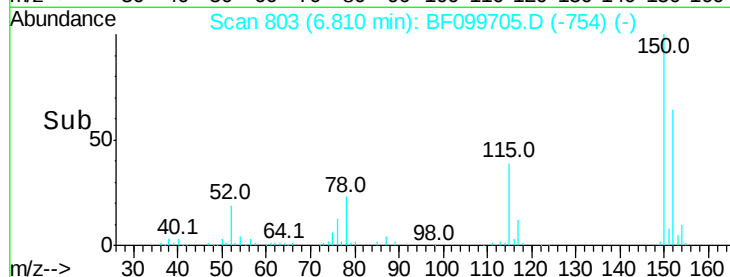
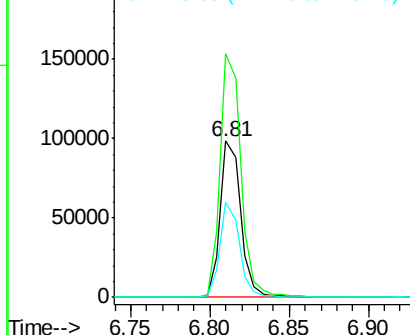


Abundance

Ion 152.00 (151.70 to 152.70): E

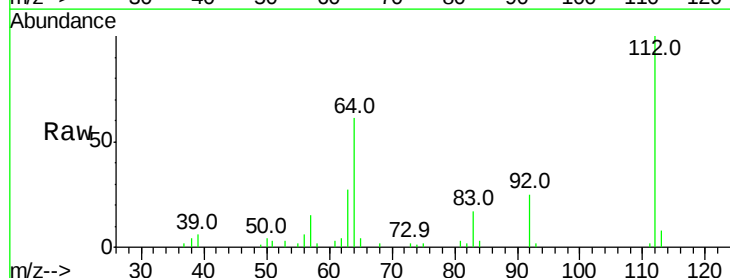
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5
 2-Fluorophenol
 Concen: 7.311 ng
 RT: 5.44 min Scan# 570
 Delta R.T. 0.00 min
 Lab File: BF099705.D
 Acq: 20 Oct 2017 17:15

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.7	47.9	71.9
63	26.9	23.7	35.5

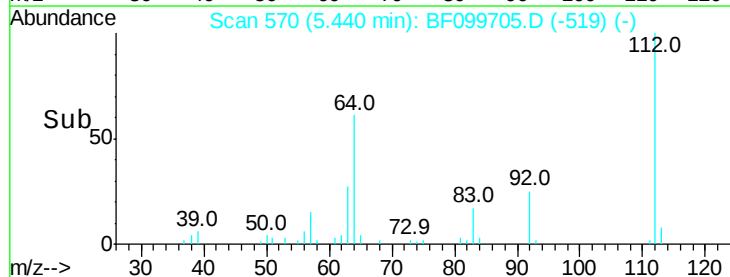
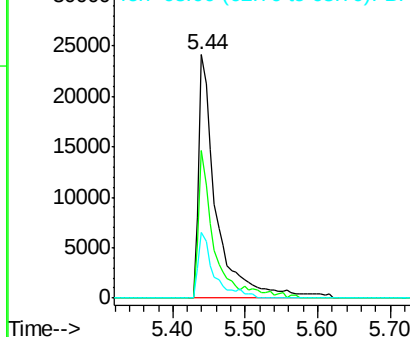


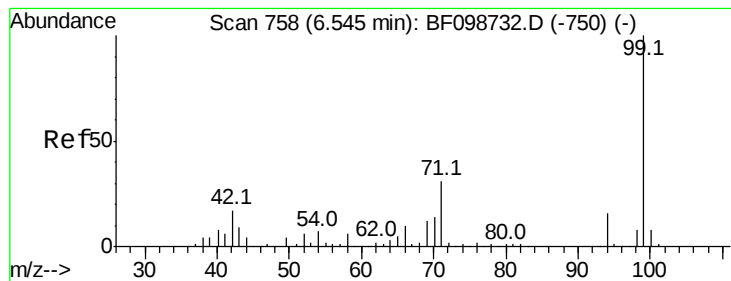
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 7.380 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

Instrument :

BNA_F

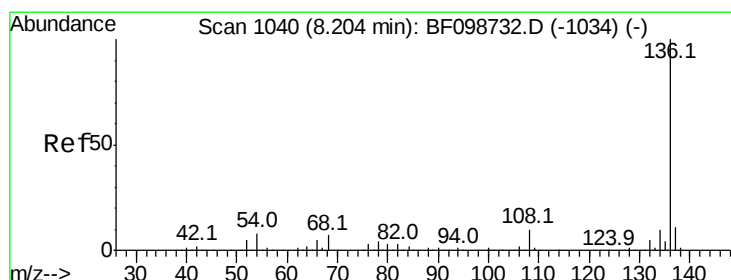
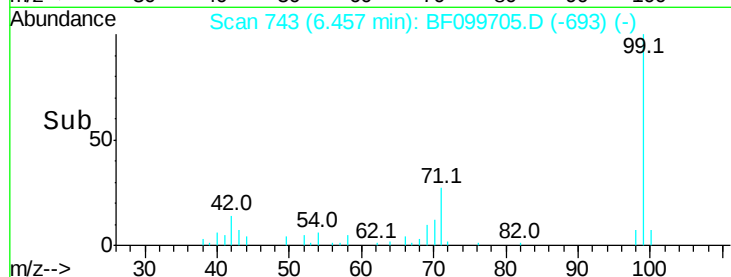
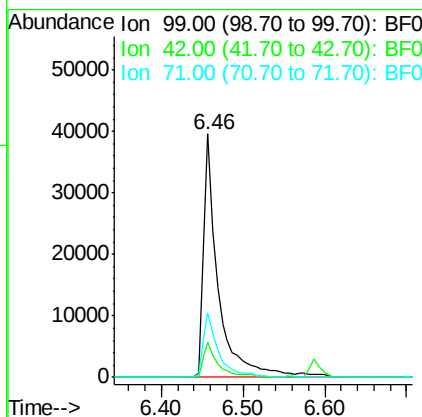
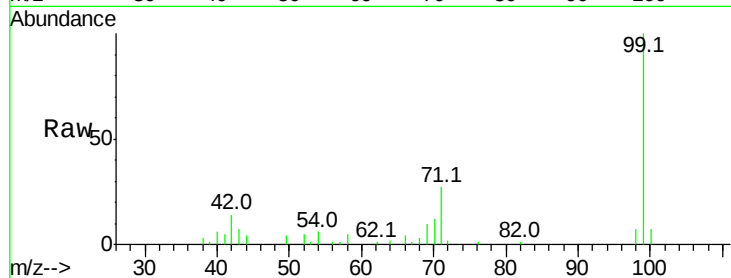
ClientSampleId :

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Tot Ion:	99	Resp:	50996
Ion Ratio	Lower	Upper	
99	100		
42	14.1	14.5	21.7#
71	26.7	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

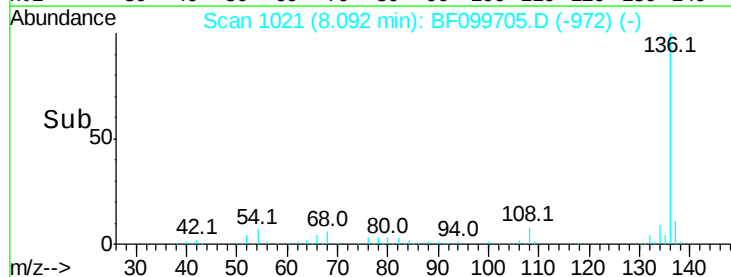
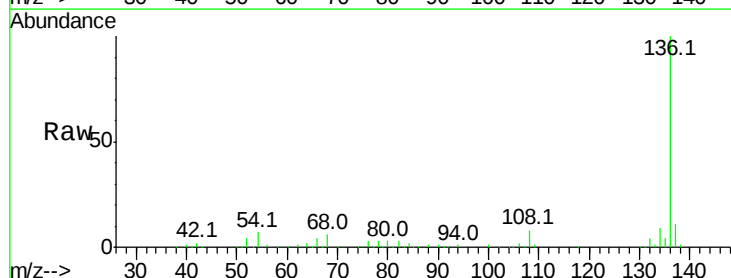
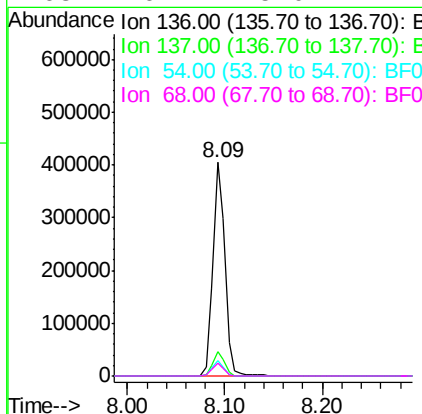
RT: 8.09 min Scan# 1021

Delta R.T. -0.01 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

Tgt Ion:	136	Resp:	345413
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.9	13.3
54	6.9	6.6	9.8
68	6.1	5.0	7.4





#23

Nitrobenzene-d5

Concen: 5.007 ng

RT: 7.38 min Scan# 900

Delta R.T. -0.01 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

Instrument :

BNA_F

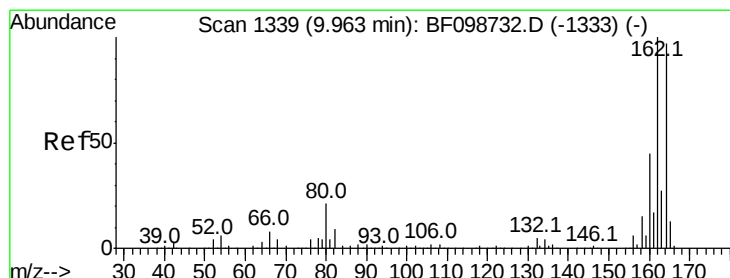
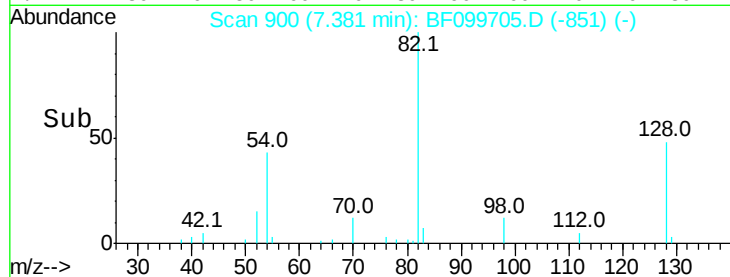
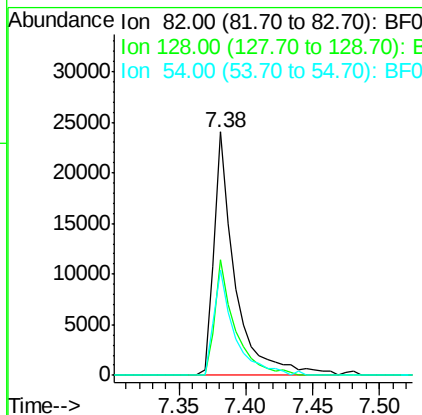
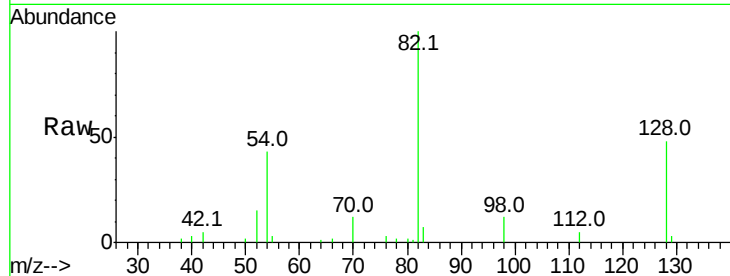
ClientSampleId :

RBR251373-78

Tot Ion:	82	Resp:	26970
Ion Ratio	Lower	Upper	
82	100		
128	47.6	36.1	54.1
54	43.3	41.4	62.2

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#38

Acenaphthene-d10

Concen: 20.000 ng

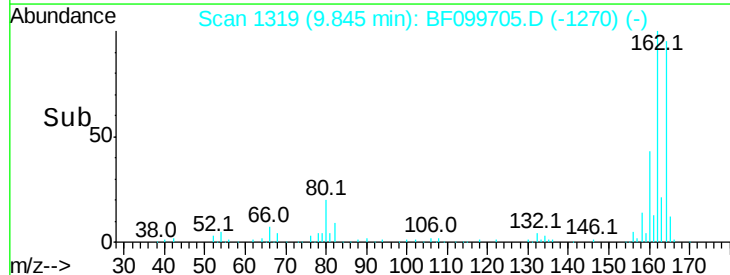
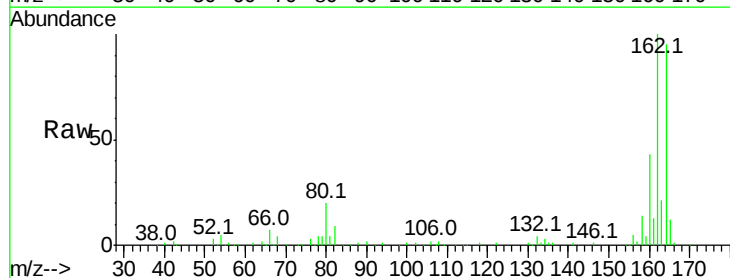
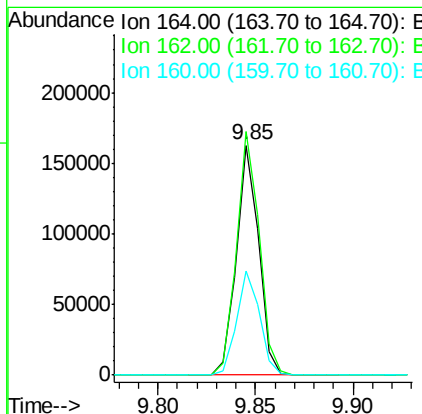
RT: 9.85 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

Tgt Ion:	164	Resp:	128841
Ion Ratio	Lower	Upper	
164	100		
162	105.8	86.1	129.1
160	45.0	38.3	57.5





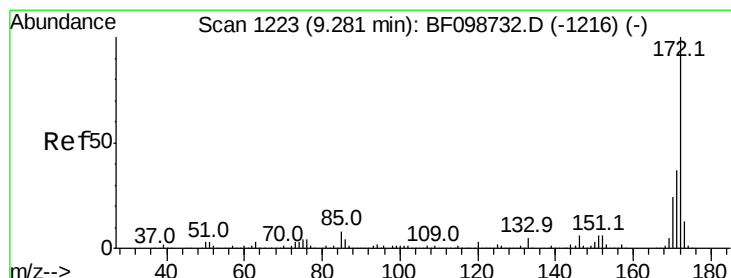
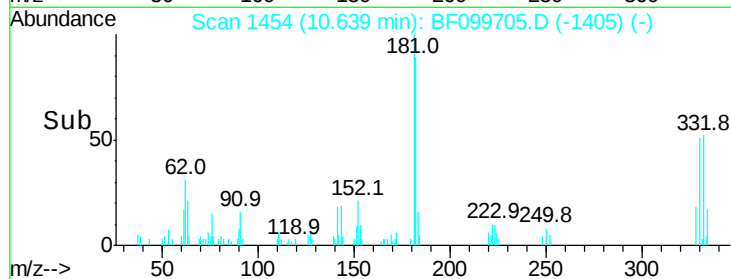
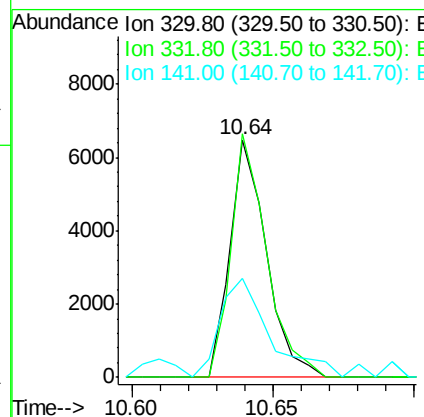
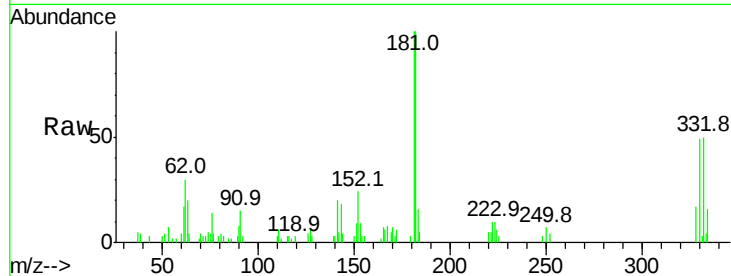
#41
 2,4,6-Tribromophenol
 Concen: 5.520 ng
 RT: 10.64 min Scan# 1454
 Delta R.T. -0.01 min
 Lab File: BF099705.D
 Acq: 20 Oct 2017 17:15

Instrument :
 BNA_F
 ClientSampleId :
 RBR251373-78

Tot Ion	Ratio	Lower	Upper
330	100		
332	100.0	77.0	115.6
141	56.8	29.9	44.9#

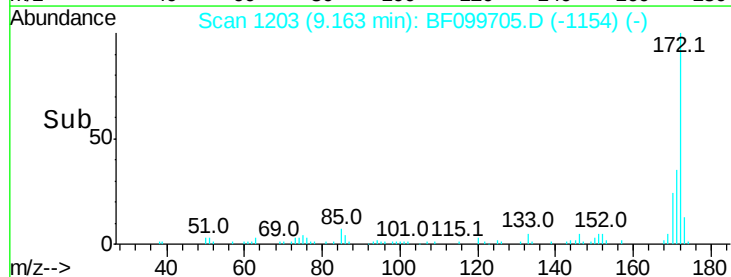
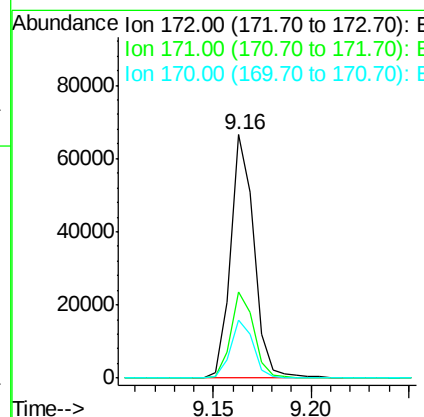
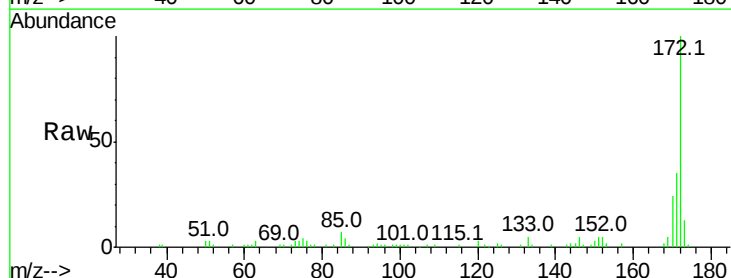
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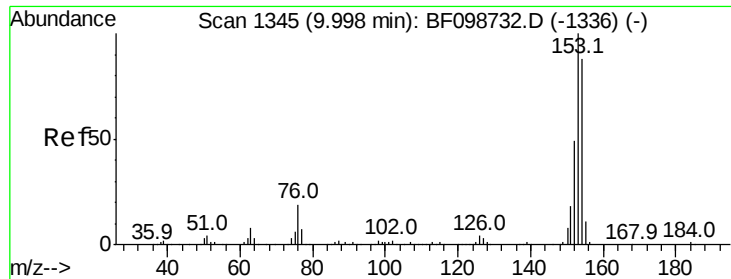
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#44
 2-Fluorobiphenyl
 Concen: 7.145 ng
 RT: 9.16 min Scan# 1203
 Delta R.T. -0.01 min
 Lab File: BF099705.D
 Acq: 20 Oct 2017 17:15

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.7	44.5
170	23.8	19.6	29.4





#51

Acenaphthene

Concen: 6.894 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

Instrument :

BNA_F

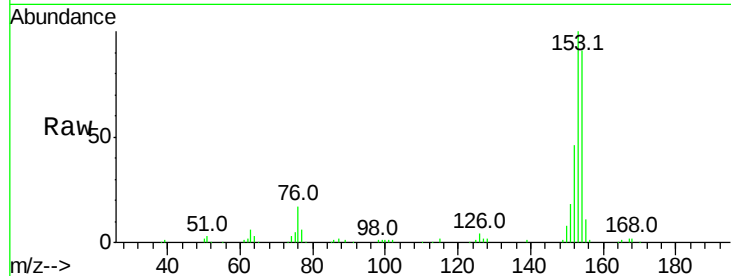
ClientSampleId :

RBR251373-78

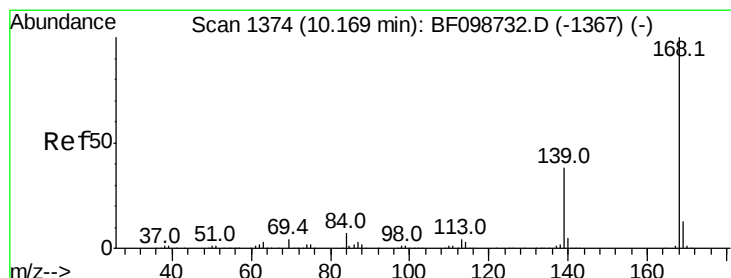
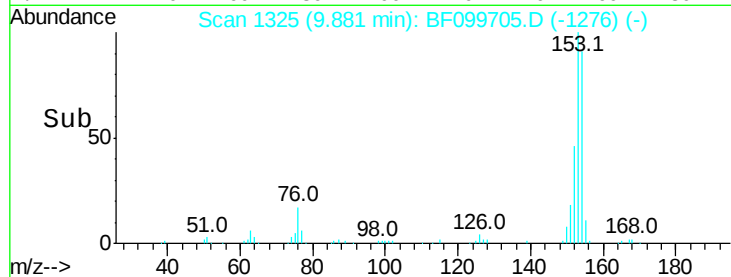
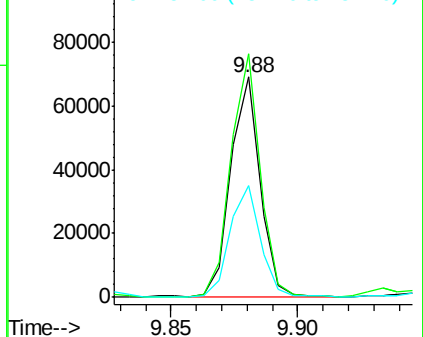
Tot Ion:	154	Resp:	55577
Ion Ratio	Lower	Upper	
154	100		
153	110.4	91.2	136.8
152	50.8	43.8	65.8

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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



#54

Dibenzofuran

Concen: 3.006 ng

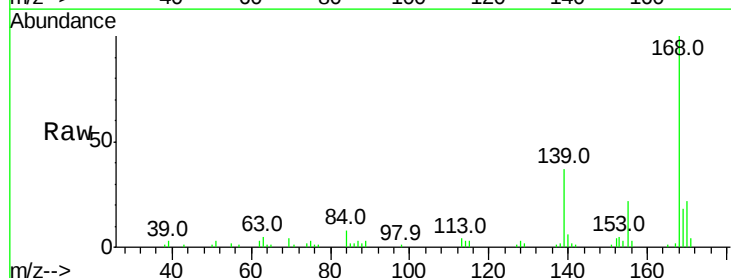
RT: 10.05 min Scan# 1354

Delta R.T. -0.01 min

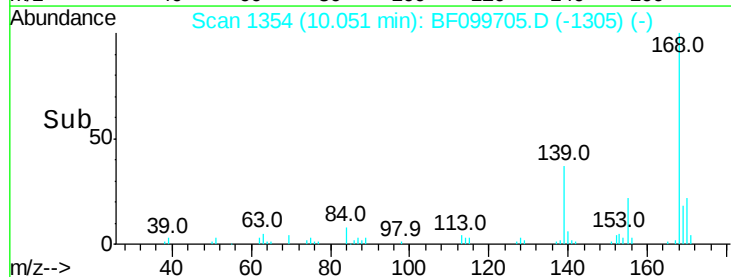
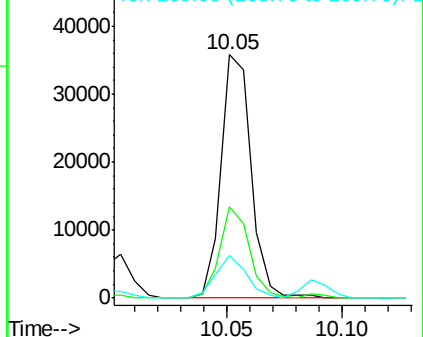
Lab File: BF099705.D

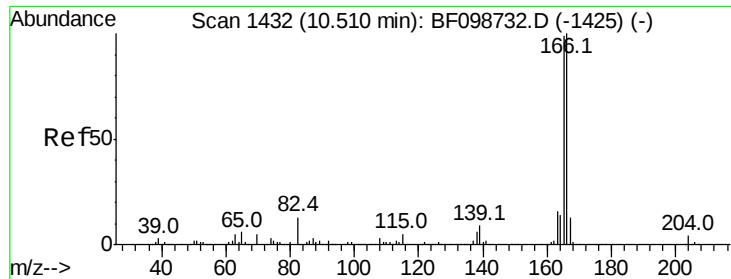
Acq: 20 Oct 2017 17:15

Tgt Ion:	168	Resp:	32269
Ion Ratio	Lower	Upper	
168	100		
139	37.5	30.1	45.1
169	17.6	10.9	16.3#



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





#57

Fluorene

Concen: 5.690 ng

RT: 10.39 min Scan# 1412

Delta R.T. -0.01 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

Instrument :

BNA_F

ClientSampleId :

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Tot Ion:166 Resp: 49088

Ion Ratio Lower Upper

166 100

165 99.7 79.8 119.8

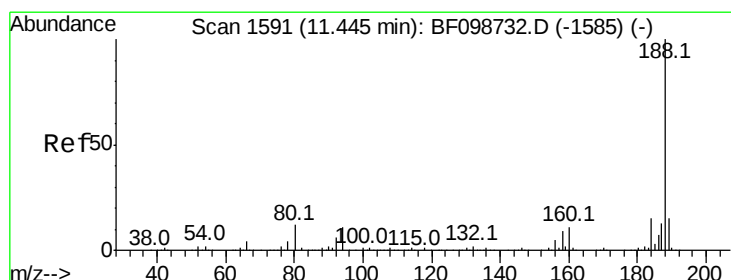
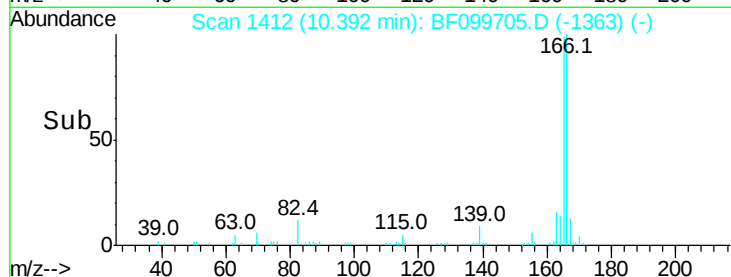
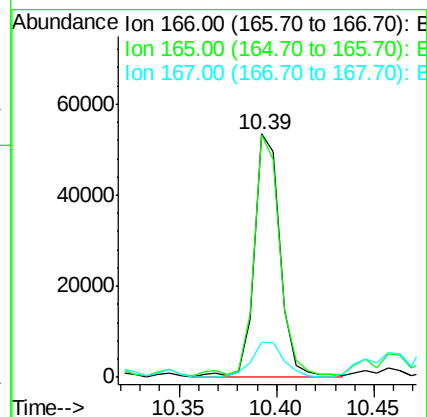
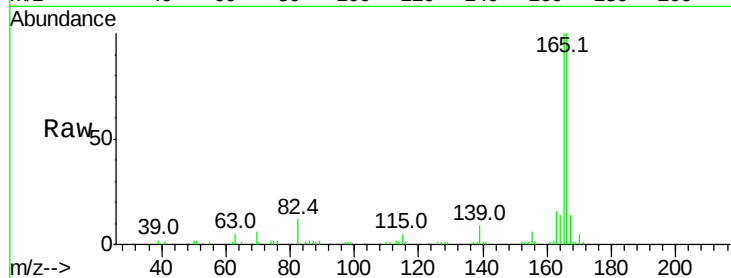
167 14.5 10.6 16.0

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#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.33 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

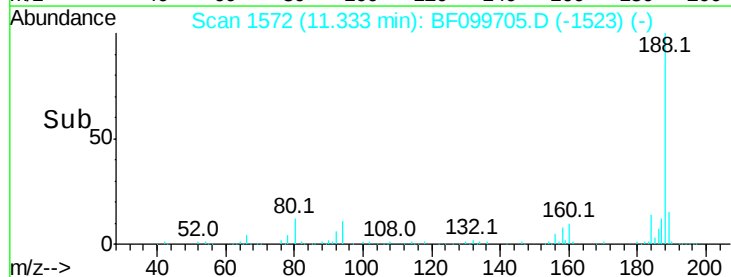
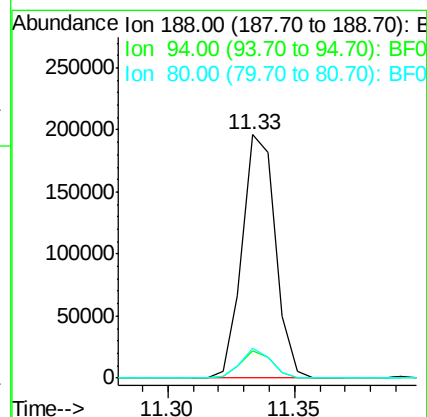
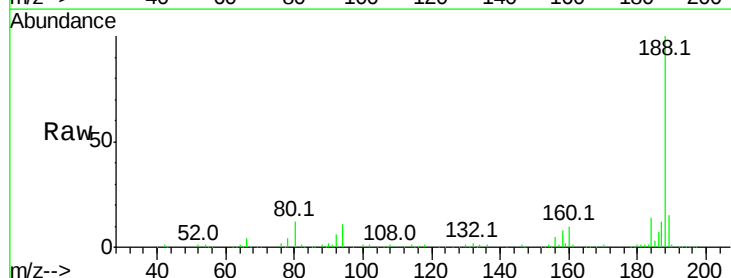
Tgt Ion:188 Resp: 178671

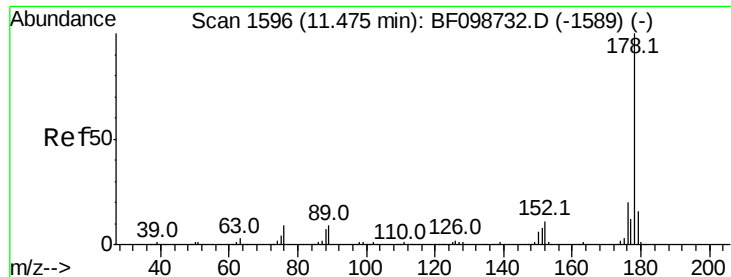
Ion Ratio Lower Upper

188 100

94 11.2 8.5 12.7

80 12.0 9.2 13.8





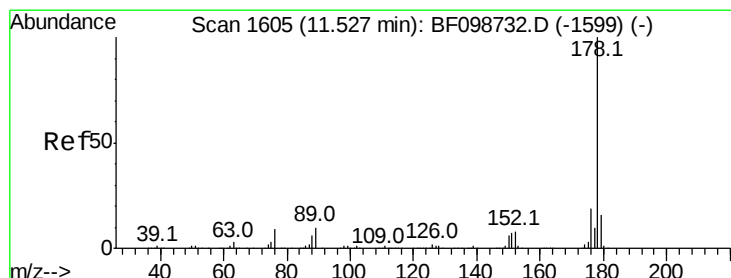
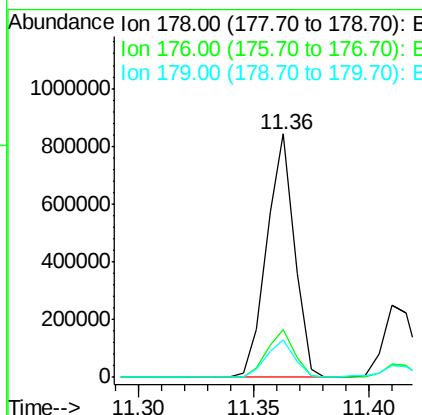
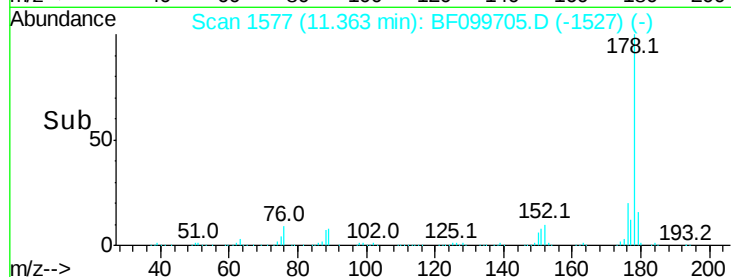
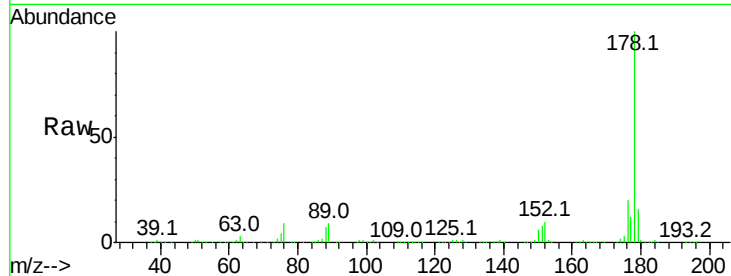
#70
Phenanthrene
Concen: 73.364 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.01 min
Lab File: BF099705.D
Acq: 20 Oct 2017 17:15

Instrument :
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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.8	23.8
179	15.6	13.0	19.6

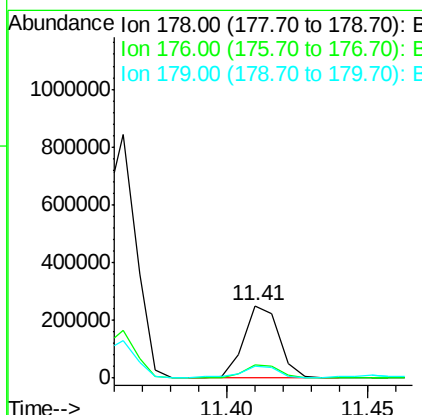
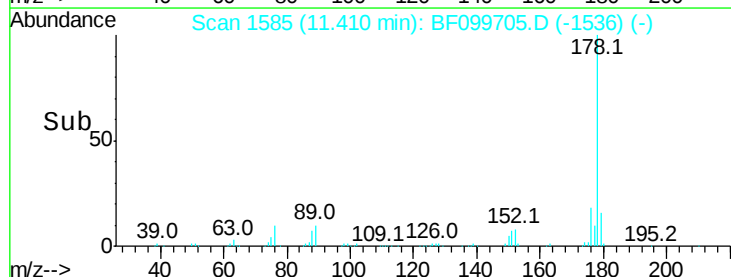
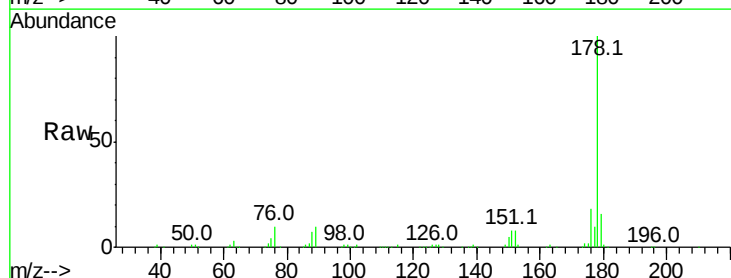
Manual Integrations
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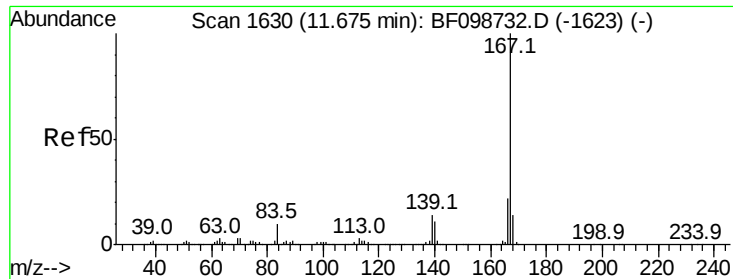
Sohil
10/23/2017 3:26:18 PM



#71
Anthracene
Concen: 22.075 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.01 min
Lab File: BF099705.D
Acq: 20 Oct 2017 17:15

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.4	23.2
179	16.0	12.6	19.0





#72

Carbazole

Concen: 2.445 ng

RT: 11.57 min Scan# 1613

Delta R.T. -0.01 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

Instrument :

BNA_F

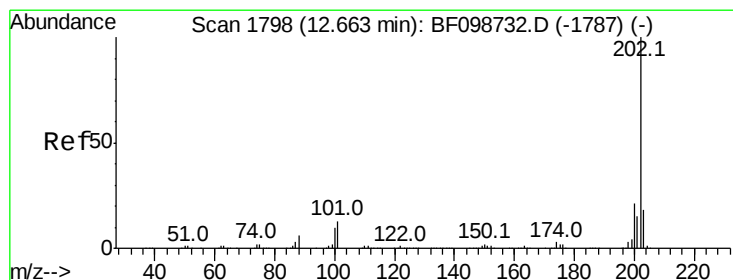
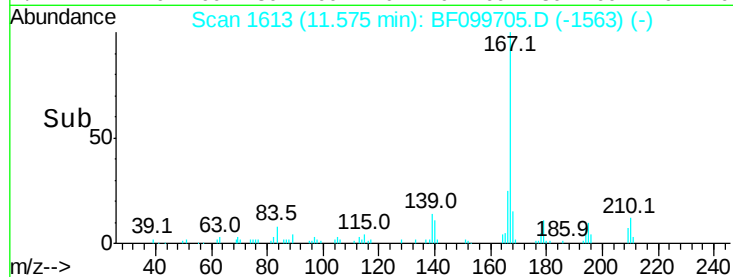
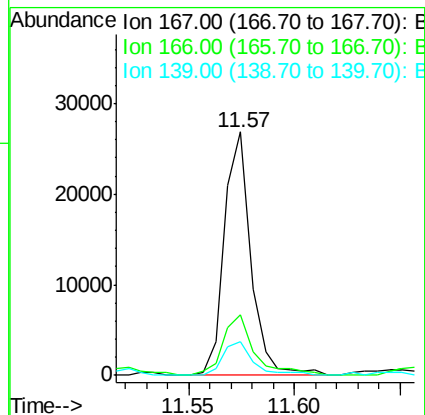
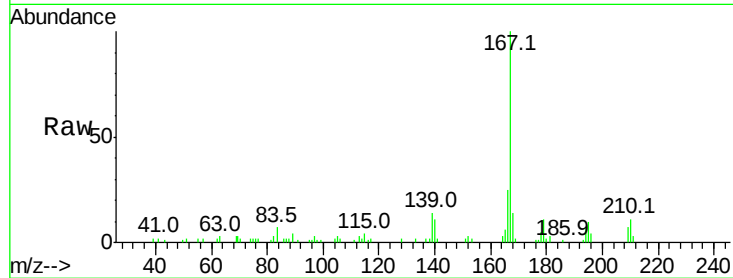
ClientSampleId :

RBR251373-78

Tot Ion:	167	Resp:	23426
Ion Ratio	Lower	Upper	
167	100		
166	24.7	17.6	26.4
139	13.6	10.9	16.3

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#74

Fluoranthene

Concen: 92.853 ng

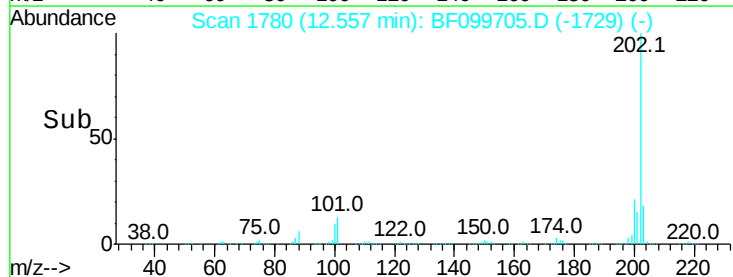
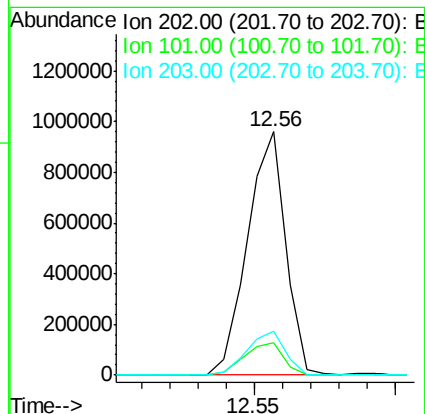
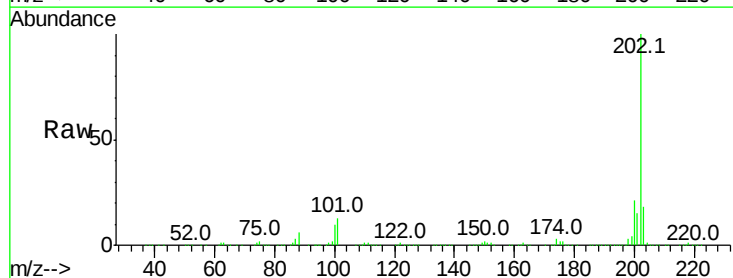
RT: 12.56 min Scan# 1780

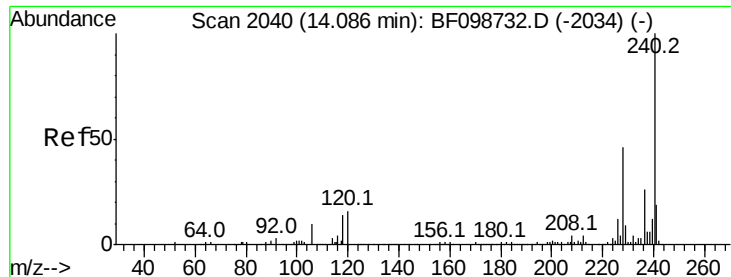
Delta R.T. 0.00 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

Tgt Ion:	202	Resp:	899224
Ion Ratio	Lower	Upper	
202	100		
101	13.3	0.0	34.1
203	17.9	0.0	38.1





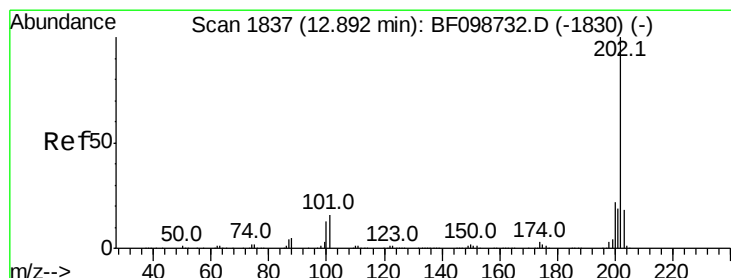
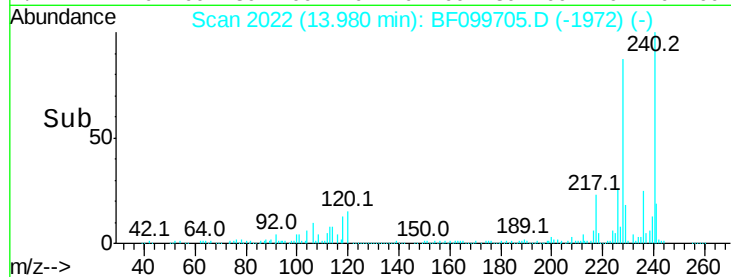
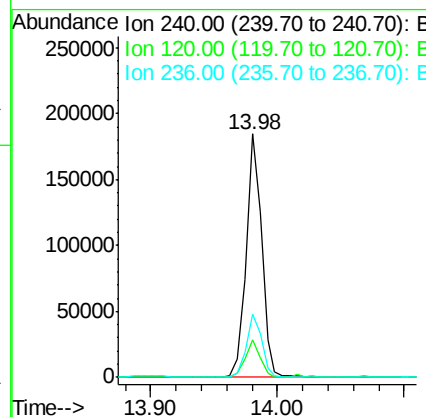
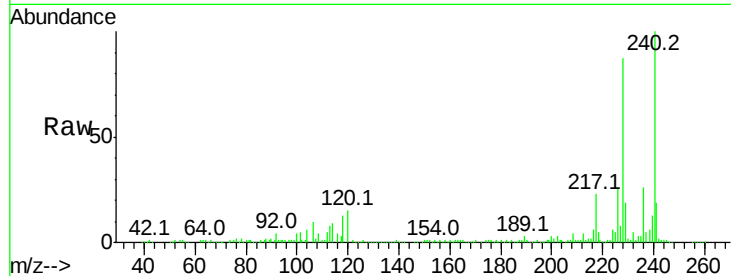
#75
Chrysene-d12
Concen: 20.000 ng
RT: 13.98 min Scan# 2022
Delta R.T. -0.01 min
Lab File: BF099705.D
Acq: 20 Oct 2017 17:15

Instrument :
BNA_F
ClientSampleId :
RBR251373-78

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.4	9.5	14.3
236	25.8	20.7	31.1

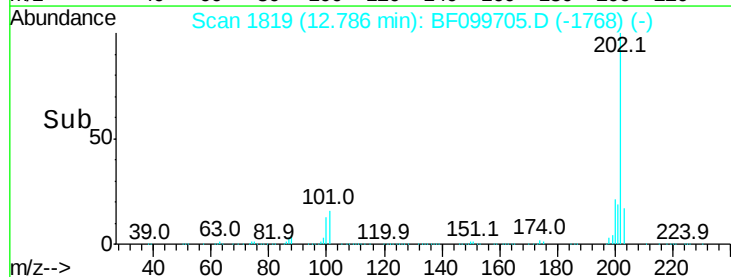
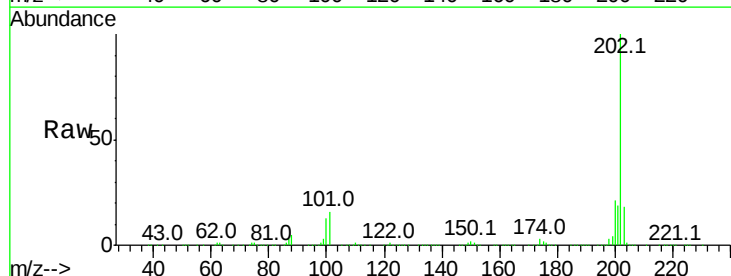
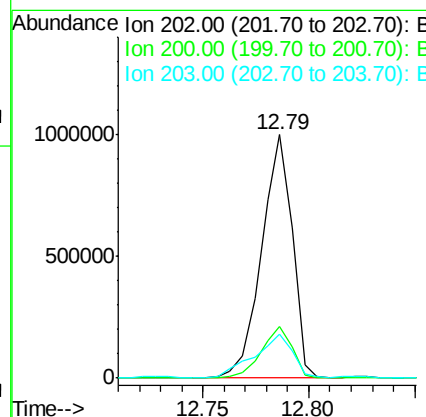
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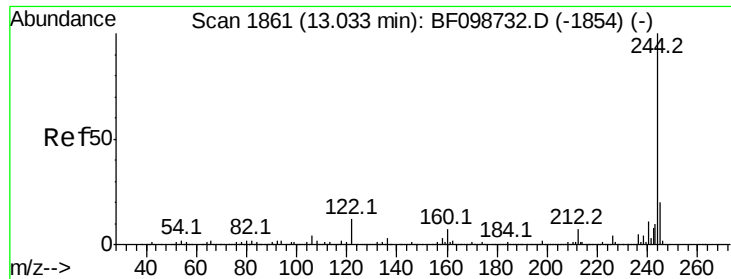
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#77
Pyrene
Concen: 85.444 ng
RT: 12.79 min Scan# 1819
Delta R.T. 0.00 min
Lab File: BF099705.D
Acq: 20 Oct 2017 17:15

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.4	26.2
203	17.9	14.3	21.5





#78

Terphenyl-d14

Concen: 4.707 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.01 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

Instrument :

BNA_F

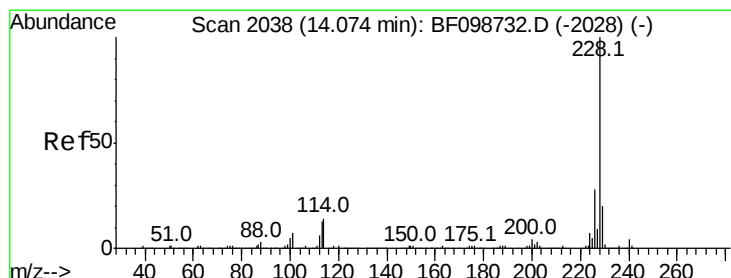
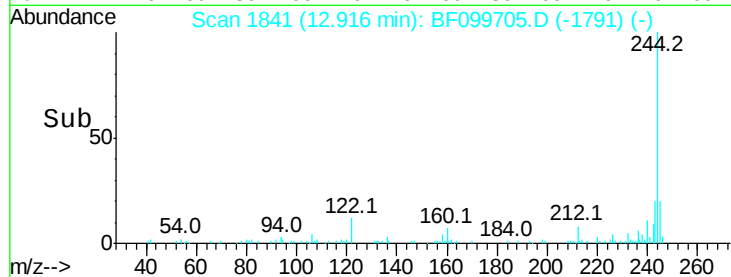
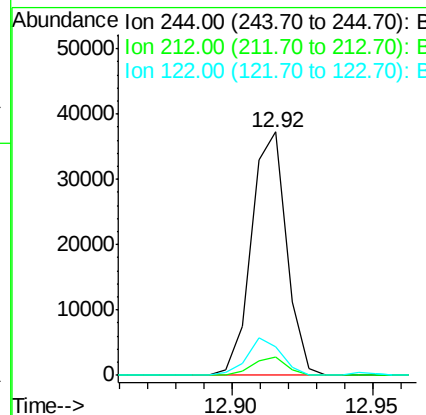
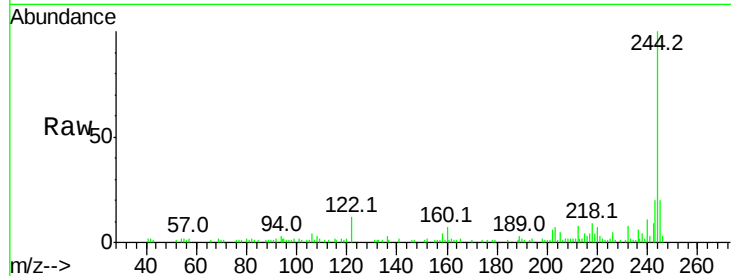
ClientSampleId :

RBR251373-78

Tot Ion:	244	Resp:	32081
Ion Ratio	Lower	Upper	
244	100		
212	7.8	5.4	8.0
122	11.9	11.0	16.4

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#80

Benzo(a)anthracene

Concen: 54.224 ng

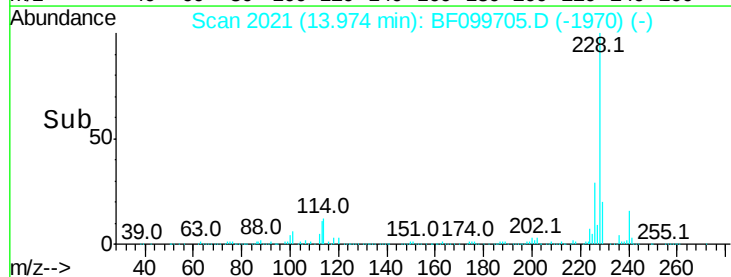
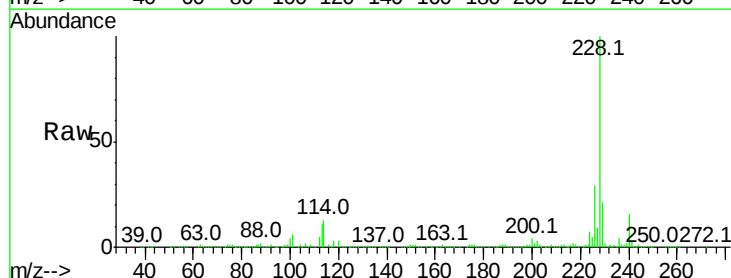
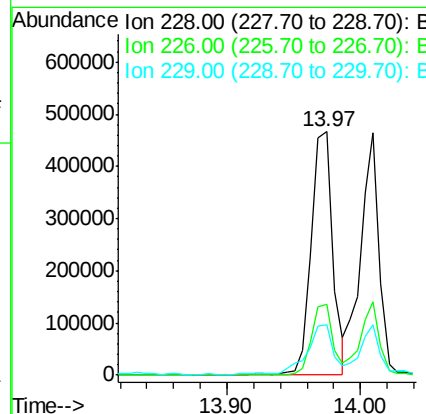
RT: 13.97 min Scan# 2021

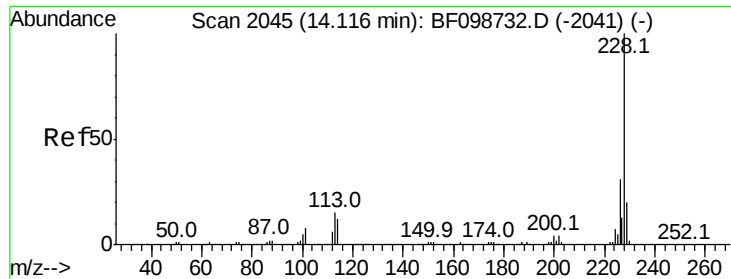
Delta R.T. 0.00 min

Lab File: BF099705.D

Acq: 20 Oct 2017 17:15

Tgt Ion:	228	Resp:	508942
Ion Ratio	Lower	Upper	
228	100		
226	29.0	22.6	33.8
229	20.6	15.8	23.6





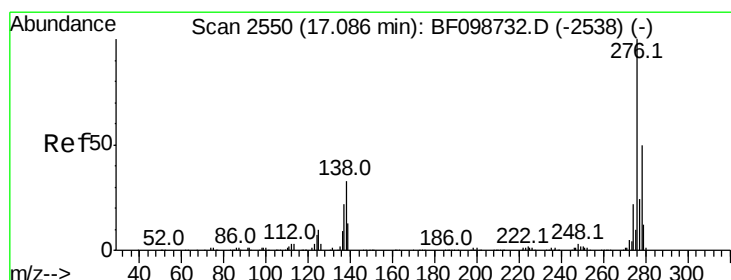
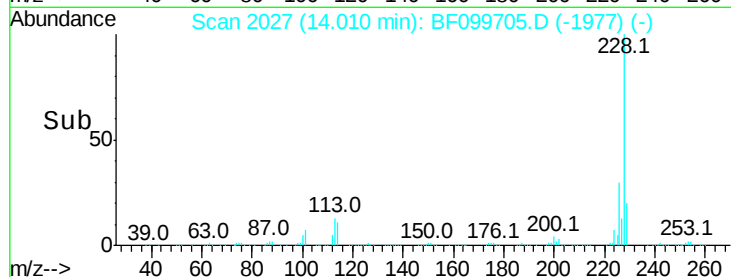
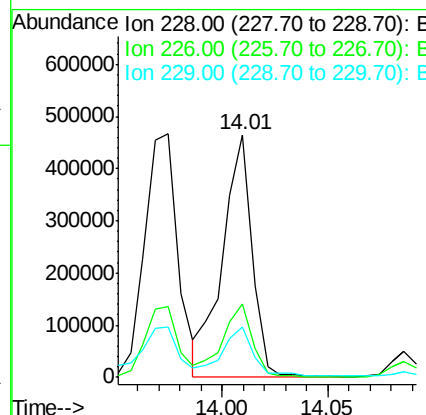
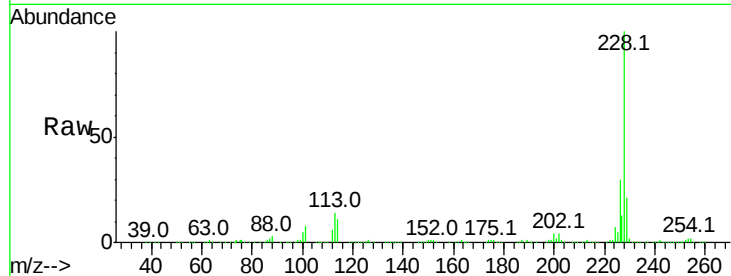
#82
Chrysene
Concen: 50.266 ng
RT: 14.01 min Scan# 2027
Delta R.T. -0.01 min
Lab File: BF099705.D
Acq: 20 Oct 2017 17:15

Instrument :
BNA_F
ClientSampleId :
RBR251373-78

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.4	25.0	37.6
229	21.0	16.2	24.4

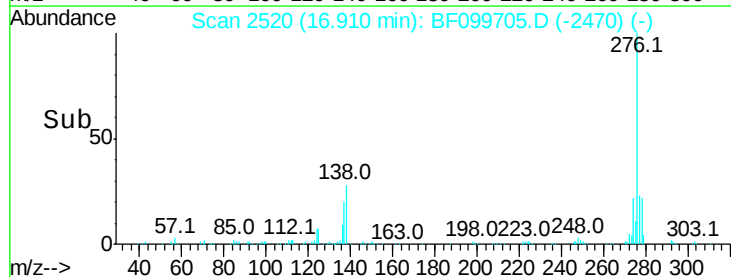
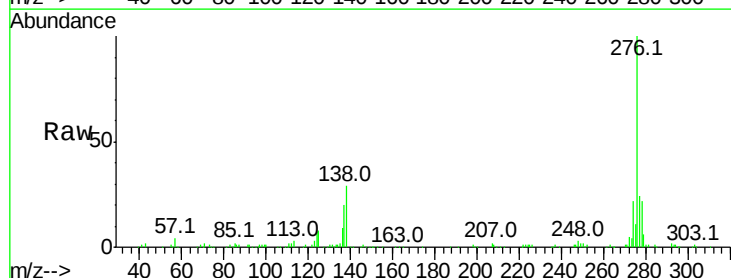
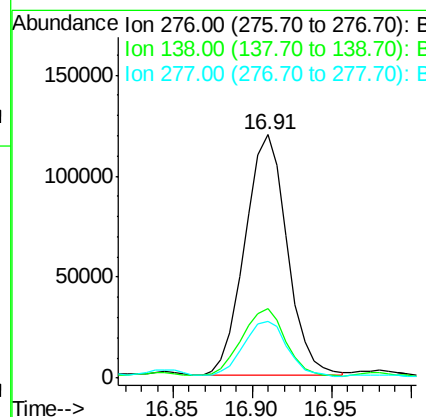
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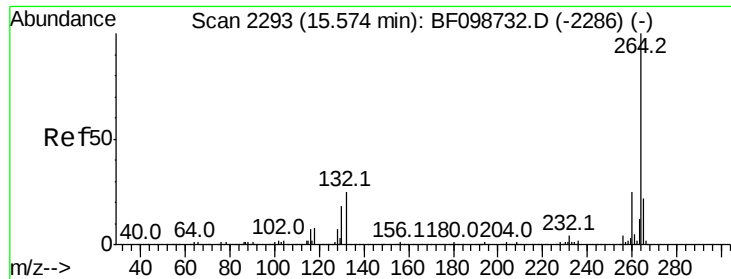
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#85
Indeno(1,2,3-cd)pyrene
Concen: 30.824 ng
RT: 16.91 min Scan# 2520
Delta R.T. -0.01 min
Lab File: BF099705.D
Acq: 20 Oct 2017 17:15

Tgt Ion	Ratio	Lower	Upper
276	100		
138	29.5	25.0	37.6
277	24.3	20.1	30.1





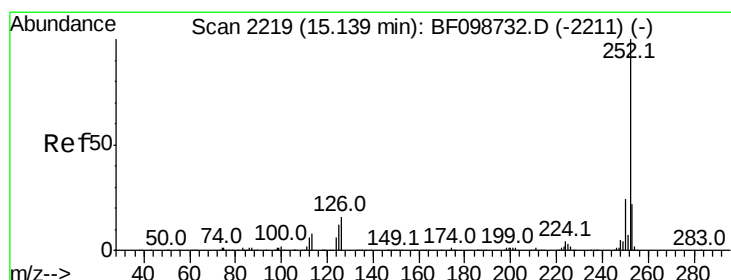
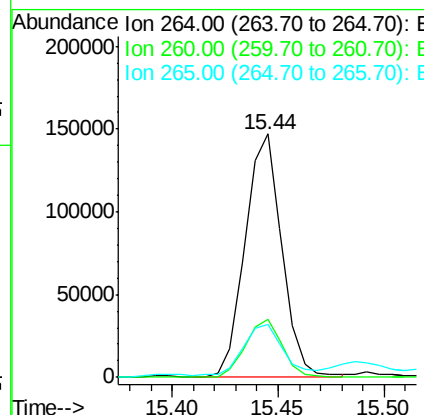
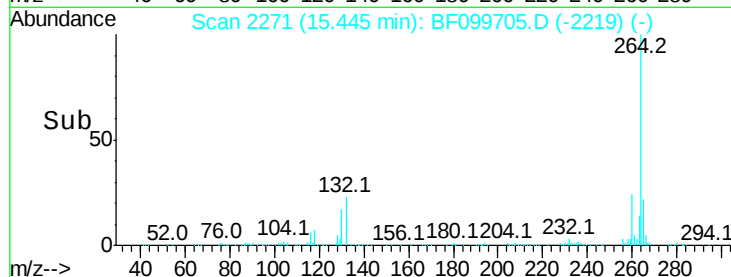
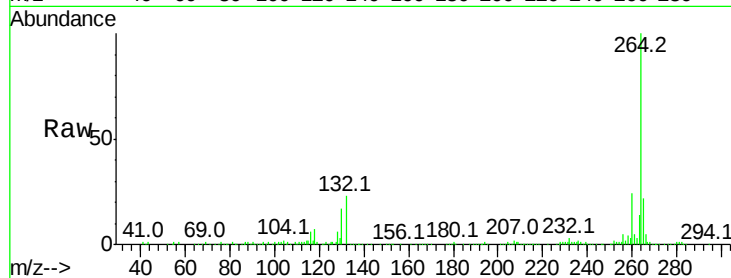
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2271
Delta R.T. 0.01 min
Lab File: BF099705.D
Acq: 20 Oct 2017 17:15

Instrument :
BNA_F
ClientSampleId :
RBR251373-78

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	21.9	17.5	26.3

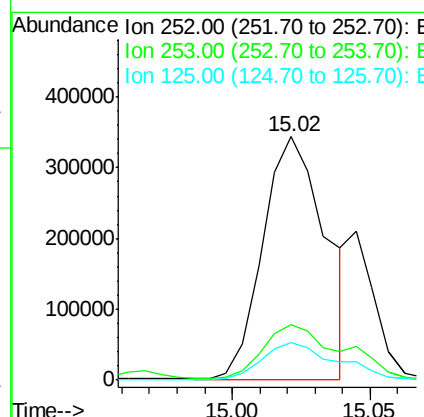
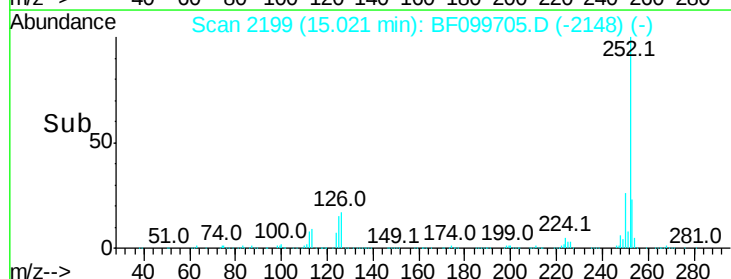
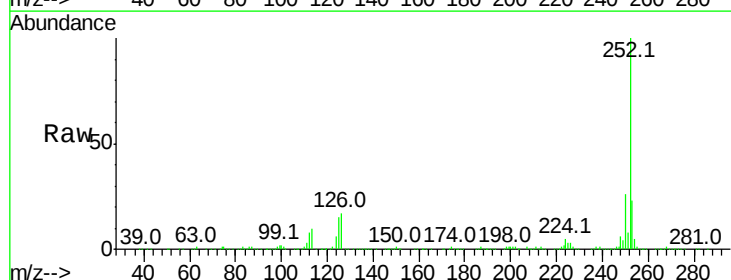
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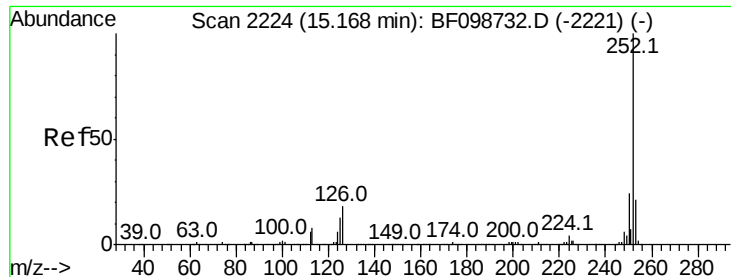
Sohil
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#87
Benzo(b)fluoranthene
Concen: 50.547 ng m
RT: 15.02 min Scan# 2199
Delta R.T. 0.00 min
Lab File: BF099705.D
Acq: 20 Oct 2017 17:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.0	25.6
125	15.2	9.0	13.6#





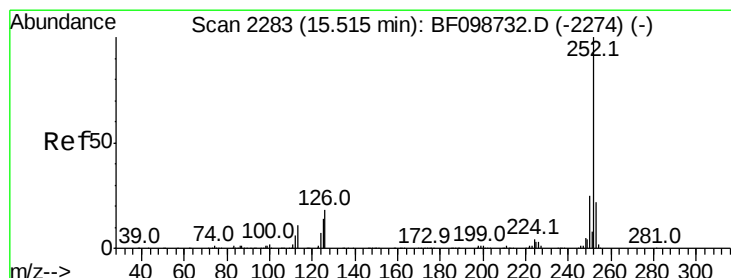
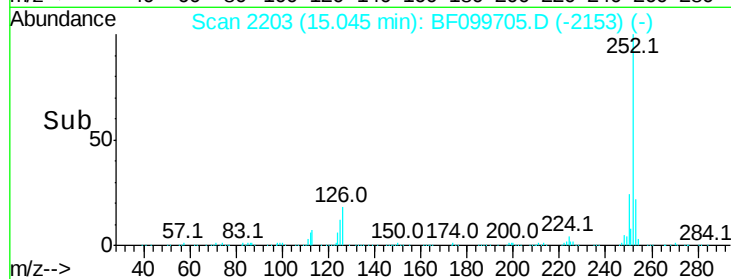
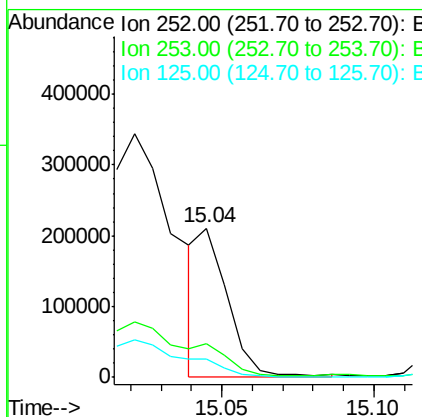
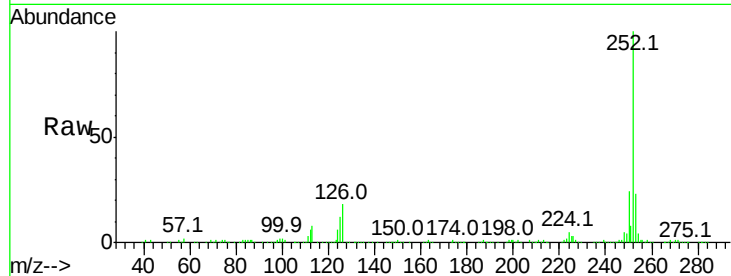
#88
Benzo(k)fluoranthene
Concen: 13.379 ng m
RT: 15.04 min Scan# 2203
Delta R.T. -0.01 min
Lab File: BF099705.D
Acq: 20 Oct 2017 17:15

Instrument :
BNA_F
ClientSampleId :
RBR251373-78

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.9	26.9
125	12.2	10.2	15.2

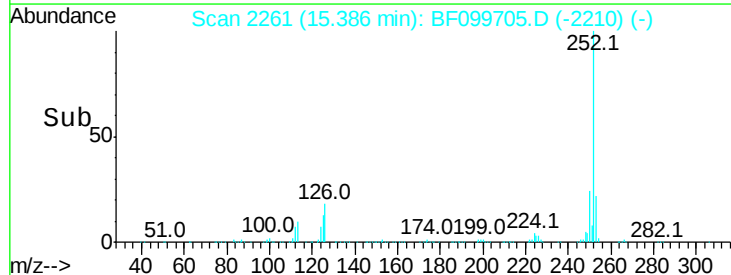
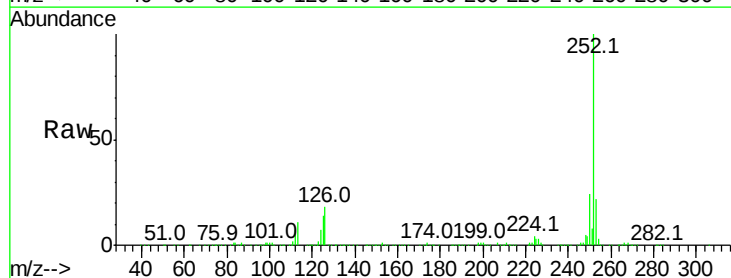
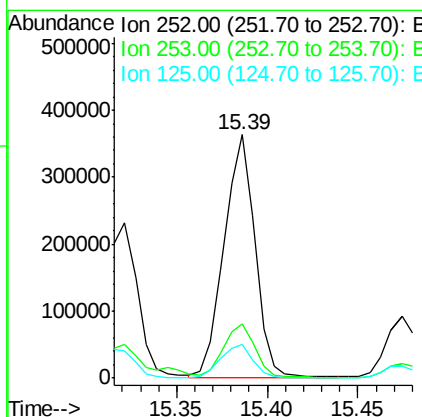
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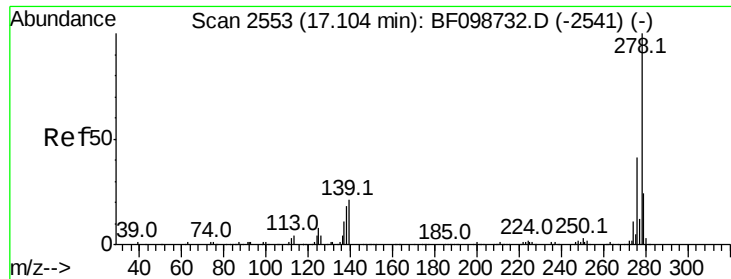
Sohil
10/23/2017 3:26:18 PM



#89
Benzo(a)pyrene
Concen: 43.419 ng
RT: 15.39 min Scan# 2261
Delta R.T. 0.00 min
Lab File: BF099705.D
Acq: 20 Oct 2017 17:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.1	25.7
125	13.6	9.8	14.6





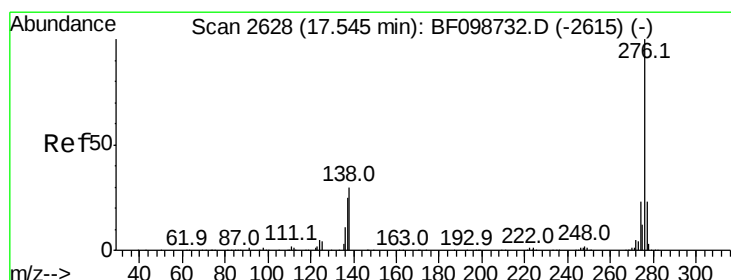
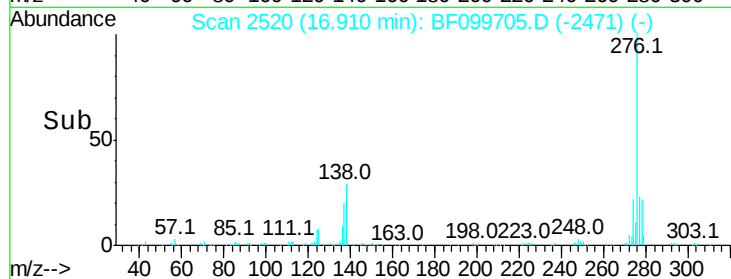
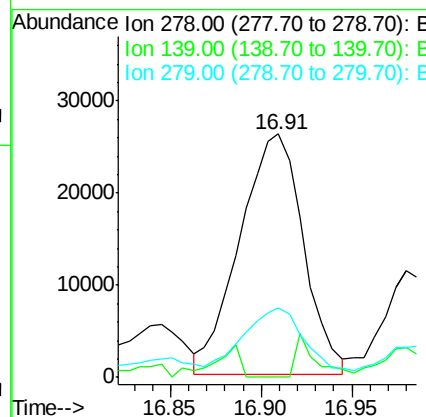
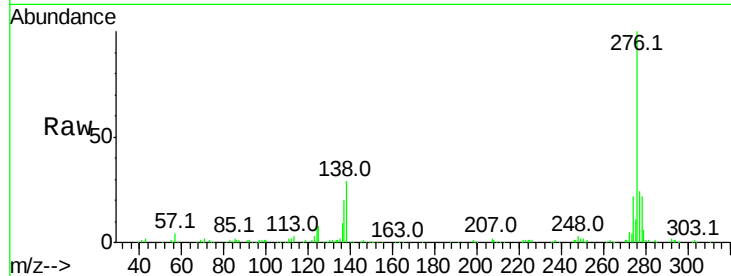
#90
Dibenzo(a,h)anthracene
Concen: 7.984 ng m
RT: 16.91 min Scan# 2520
Delta R.T. -0.01 min
Lab File: BF099705.D
Acq: 20 Oct 2017 17:15

Instrument :
BNA_F
ClientSampleId :
RBR251373-78

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	28.7	19.0	28.4#

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#91
Benzo(g,h,i)perylene
Concen: 27.786 ng
RT: 17.36 min Scan# 2596
Delta R.T. 0.00 min
Lab File: BF099705.D
Acq: 20 Oct 2017 17:15

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.7	17.9	26.9
138	31.3	21.8	32.8

