

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102317\
 Data File : BF099763.D
 Acq On : 23 Oct 2017 17:13
 Operator : SJ/JU
 Sample : I5988-01DL 20X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RBR251373-78DL

Manual Integrations
 APPROVED

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 10/24/2017 8:42:21 PM

Quant Time: Oct 23 18:13:03 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 23 15:08:33 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	108210	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	462368	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	215059	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	342073	20.00	ng	0.00
75) Chrysene-d12	13.98	240	175644	20.00	ng	0.00
86) Perylene-d12	15.44	264	201886	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	22591	3.28	ng	0.01
7) Phenol-d6	6.45	99	30827	3.77	ng	0.00
23) Nitrobenzene-d5	7.37	82	17268	2.40	ng	0.00
41) 2,4,6-Tribromophenol	10.63	330	5711	2.91	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	41209	2.96	ng	0.00
78) Terphenyl-d14	12.91	244	26655	3.32	ng	0.00
Target Compounds						
51) Acenaphthene	9.87	154	46173	3.472	ng	99
57) Fluorene	10.39	166	43986	2.830	ng	99
70) Phenanthrene	11.36	178	702113	36.370	ng	100
71) Anthracene	11.41	178	207126	10.570	ng	98
74) Fluoranthene	12.55	202	765056	38.134	ng	98
77) Pyrene	12.78	202	793681	59.426	ng	100
80) Benzo(a)anthracene	13.97	228	308475	27.704	ng	98
82) Chrysene	14.00	228	258176	24.663	ng	99
85) Indeno(1,2,3-cd)pyrene	16.92	276	135755	14.127	ng	98
87) Benzo(b)fluoranthene	15.02	252	305757m	23.984	ng	
88) Benzo(k)fluoranthene	15.04	252	82696m	6.879	ng	
89) Benzo(a)pyrene	15.39	252	243382	21.253	ng	97
90) Dibenzo(a,h)anthracene	16.92	278	35424m	3.481	ng	
91) Benzo(g,h,i)perylene	17.36	276	138646	13.927	ng	97

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

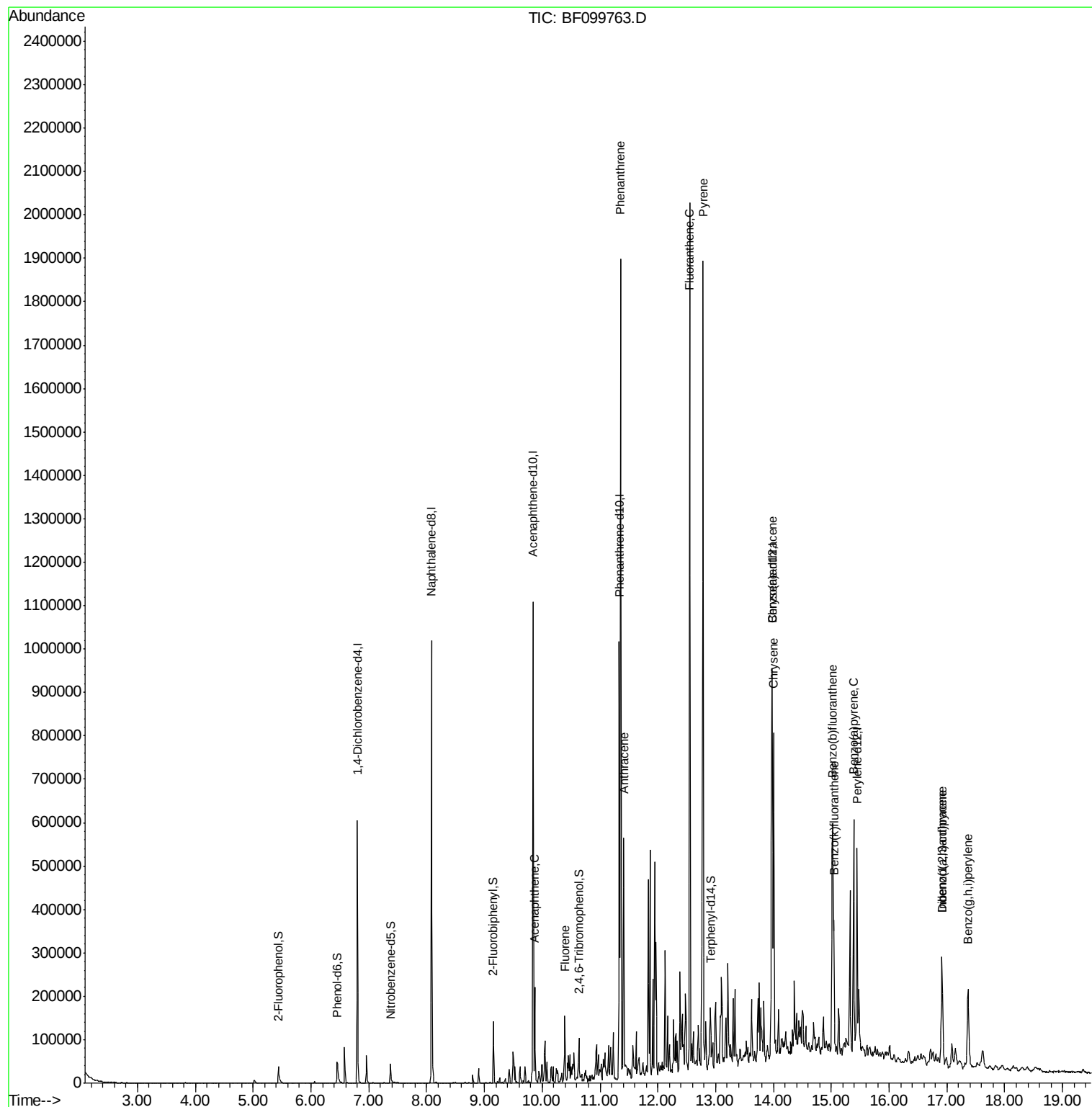
Data Path : Z:\HPCHEM1\BNA F\DATA\BF102317\
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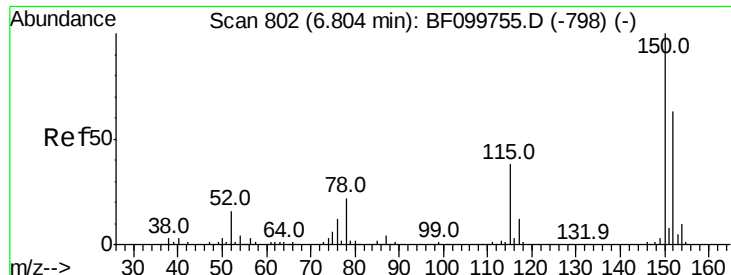
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#1

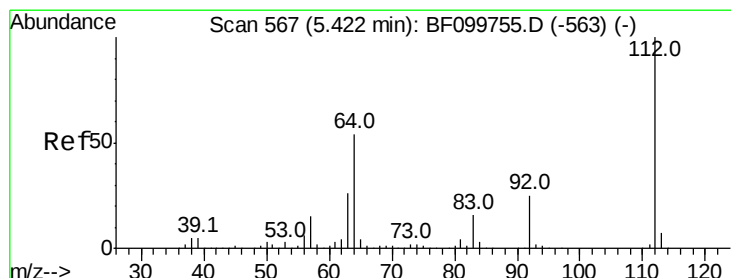
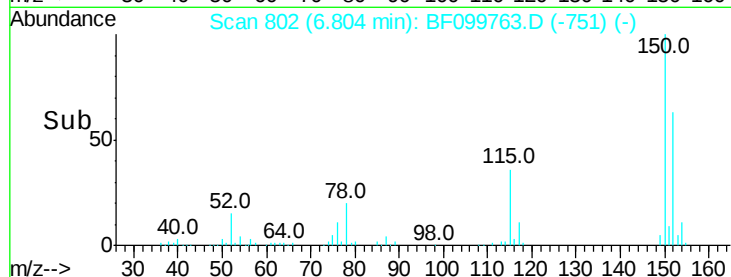
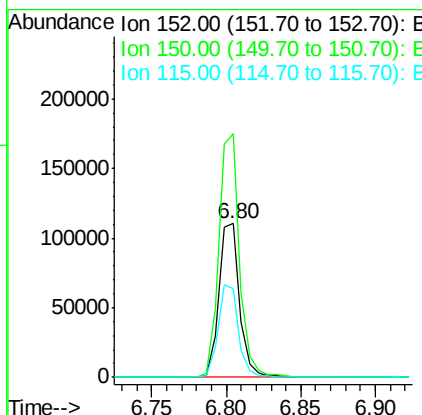
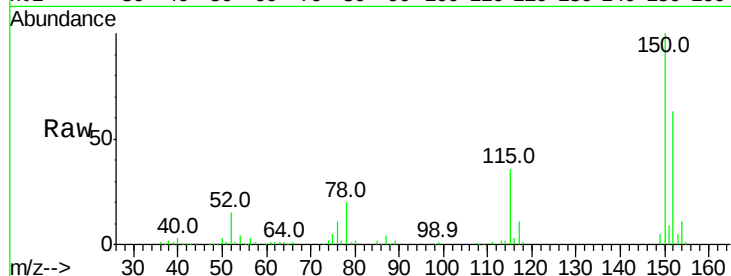
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.00 min
Lab File: BF099763.D
Acq: 23 Oct 2017 17:13

Instrument :
BNA_F
ClientSampleId :
RBR251373-78DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.1	124.6	186.8
115	57.3	50.1	75.1

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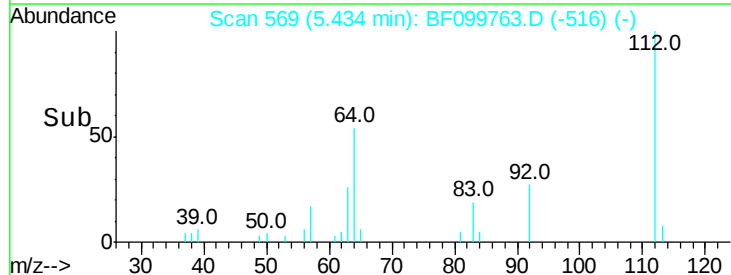
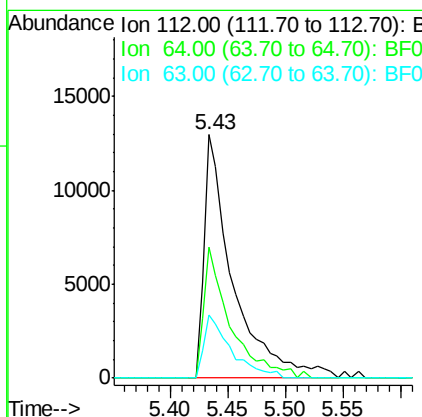
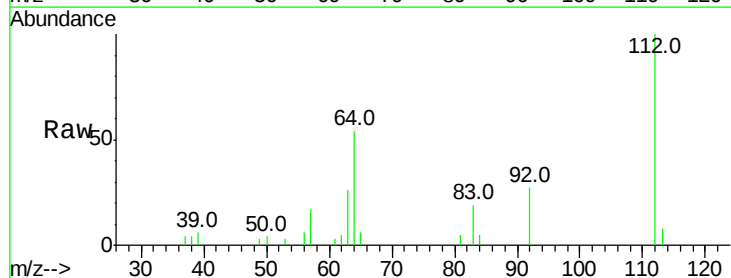
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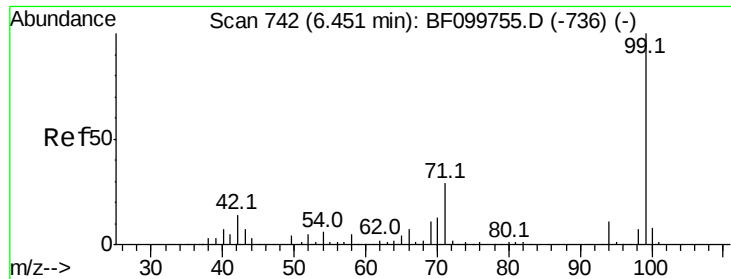


#5

2-Fluorophenol
Concen: 3.278 ng
RT: 5.43 min Scan# 569
Delta R.T. 0.01 min
Lab File: BF099763.D
Acq: 23 Oct 2017 17:13

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.6	47.9	71.9
63	25.8	23.7	35.5





#7

Phenol-d6

Concen: 3.772 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.00 min

Lab File: BF099763.D

Acq: 23 Oct 2017 17:13

Instrument :

BNA_F

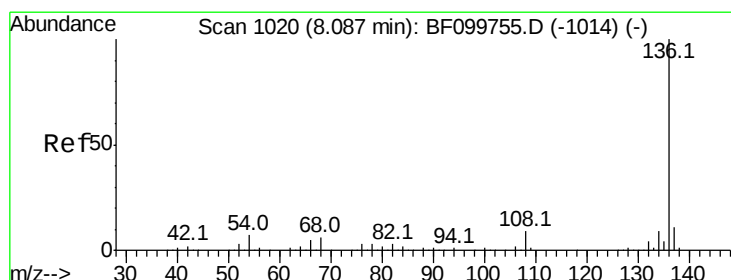
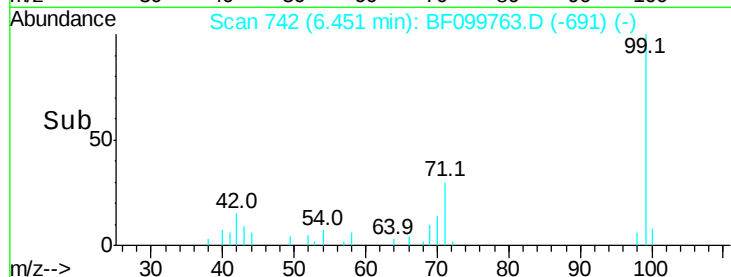
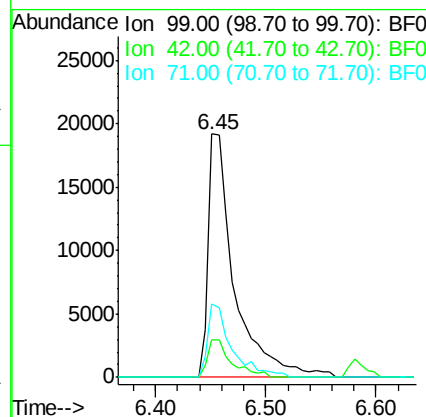
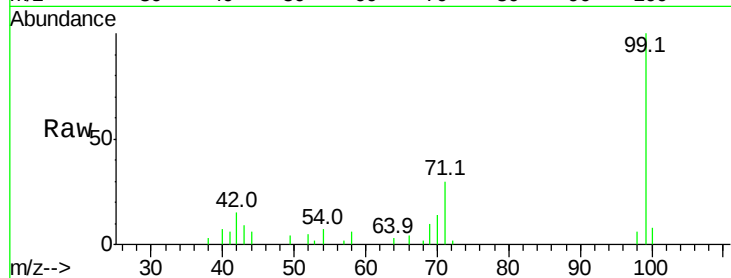
ClientSampleID :

RBR251373-78DL

Tot Ion:	99	Resp:	30827
Ion Ratio	Lower	Upper	
99	100		
42	15.3	14.5	21.7
71	30.4	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

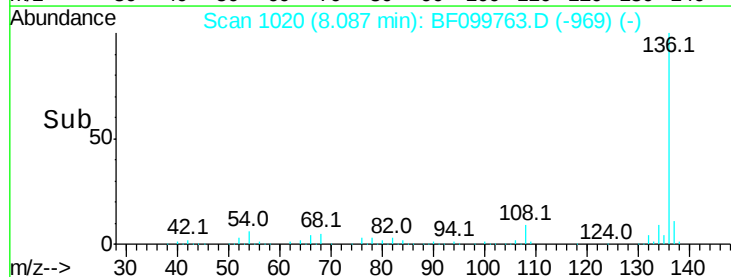
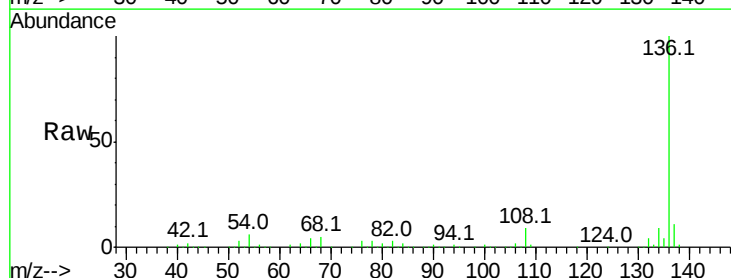
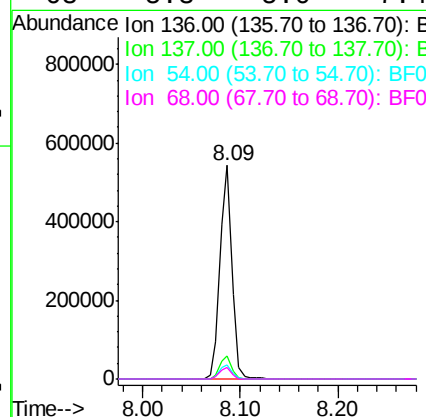
RT: 8.09 min Scan# 1020

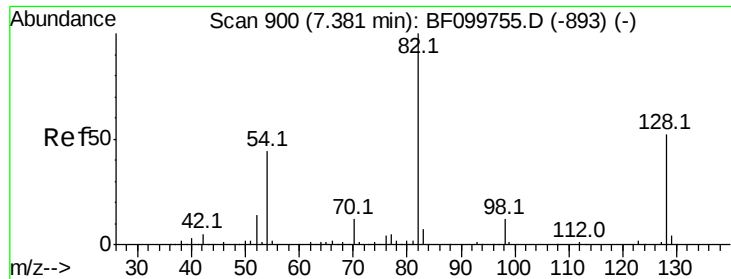
Delta R.T. -0.00 min

Lab File: BF099763.D

Acq: 23 Oct 2017 17:13

Tgt Ion:	136	Resp:	462368
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.9	13.3
54	6.3	6.6	9.8#
68	5.3	5.0	7.4





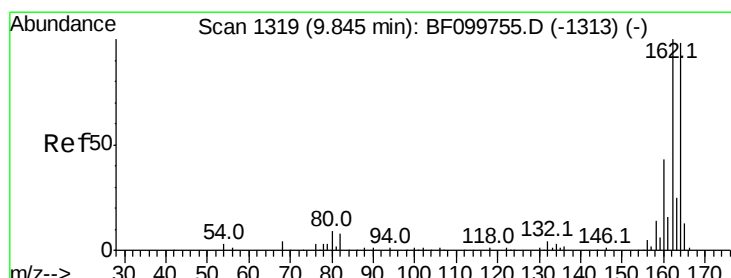
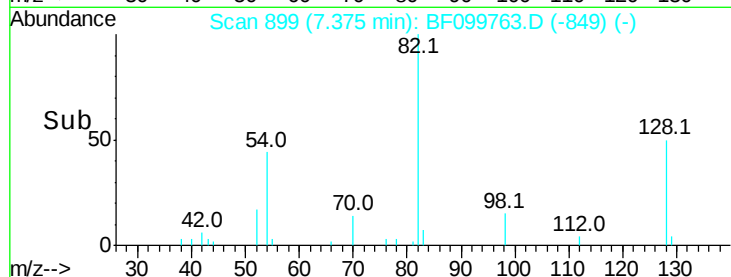
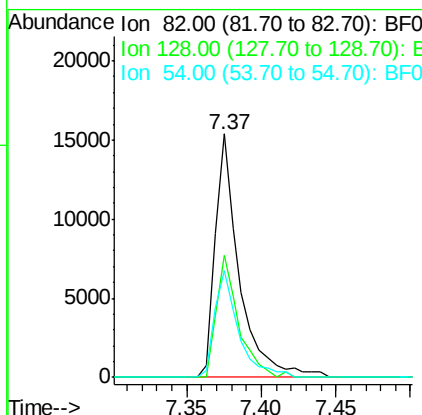
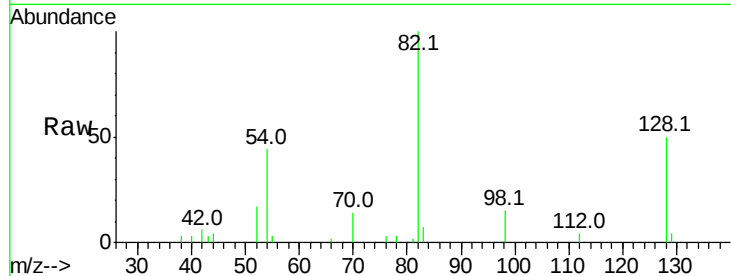
#23
 Nitrobenzene-d5
 Concen: 2.404 ng
 RT: 7.37 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: BF099763.D
 Acq: 23 Oct 2017 17:13

Instrument :
 BNA_F
 ClientSampleId :
 RBR251373-78DL

Tot Ion	82	Resp	17268
Ion Ratio	100	Lower	Upper
128	50.0	36.1	54.1
54	44.0	41.4	62.2

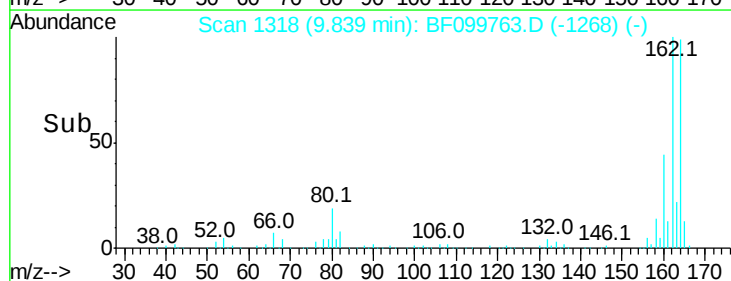
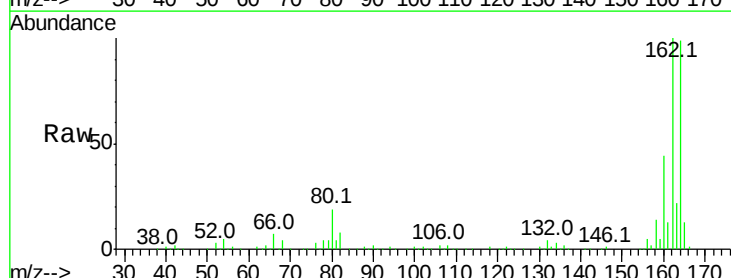
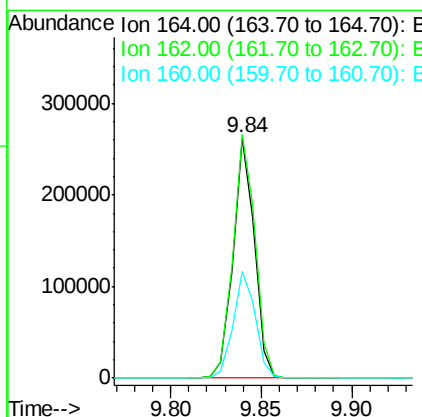
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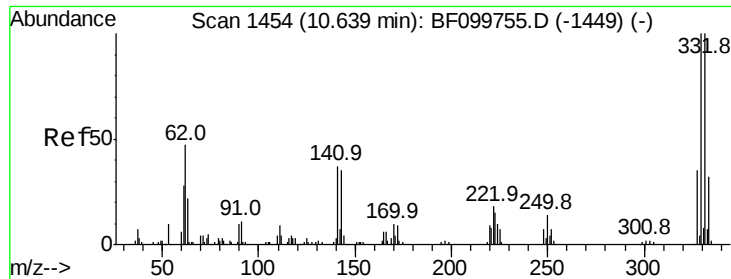
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. -0.01 min
 Lab File: BF099763.D
 Acq: 23 Oct 2017 17:13

Tgt Ion	164	Resp	215059
Ion Ratio	100	Lower	Upper
162	101.5	86.1	129.1
160	44.4	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 2.914 ng

RT: 10.63 min Scan# 1453

Delta R.T. -0.01 min

Lab File: BF099763.D

Acq: 23 Oct 2017 17:13

Instrument :

BNA_F

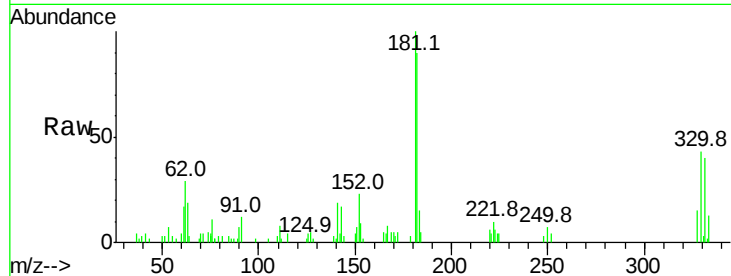
ClientSampleId :

RBR251373-78DL

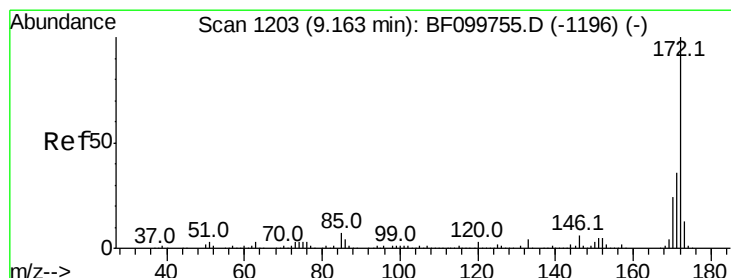
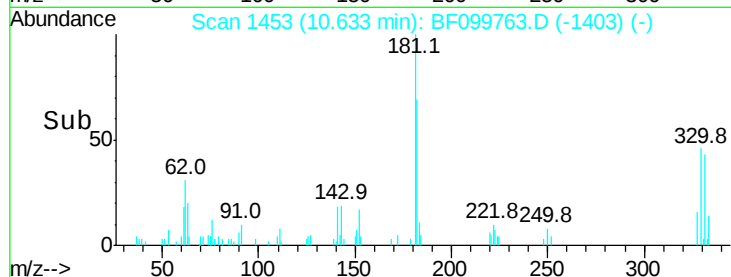
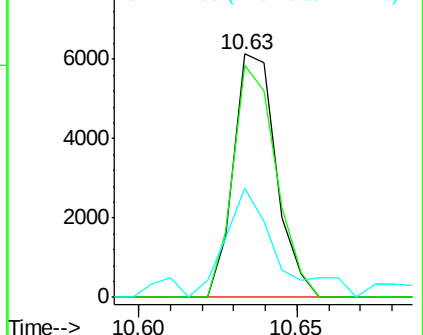
Tot Ion:	330	Resp:	5711
Ion Ratio	Lower	Upper	
330	100		
332	96.6	77.0	115.6
141	59.1	29.9	44.9#

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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



#44

2-Fluorobiphenyl

Concen: 2.956 ng

RT: 9.16 min Scan# 1202

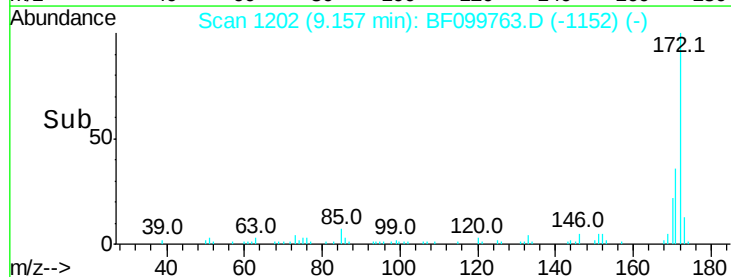
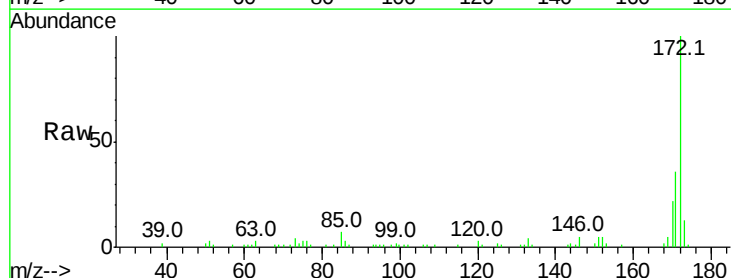
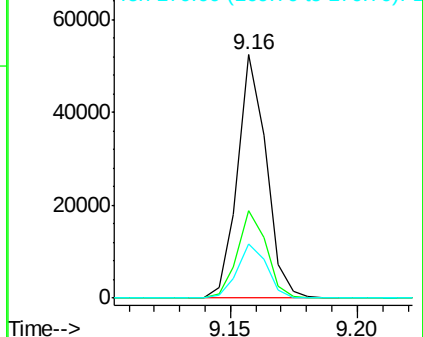
Delta R.T. -0.00 min

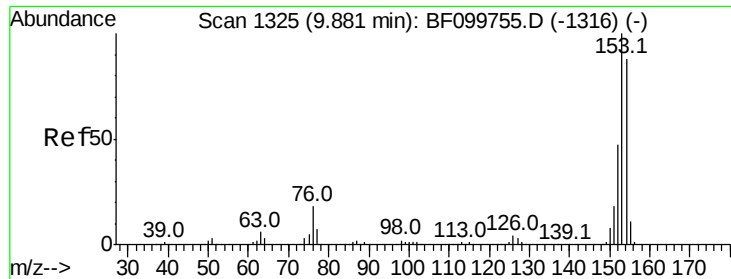
Lab File: BF099763.D

Acq: 23 Oct 2017 17:13

Tgt Ion:	172	Resp:	41209
Ion Ratio	Lower	Upper	
172	100		
171	35.8	29.7	44.5
170	22.3	19.6	29.4

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





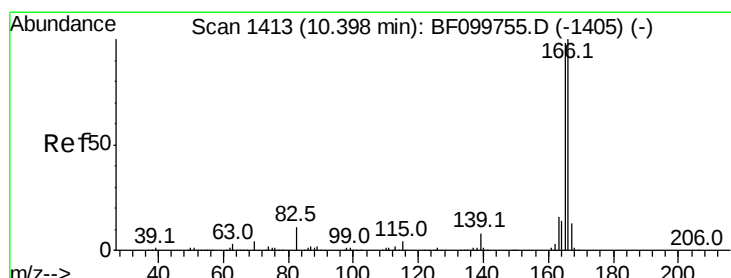
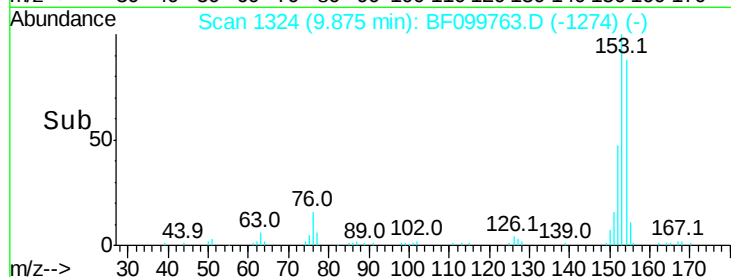
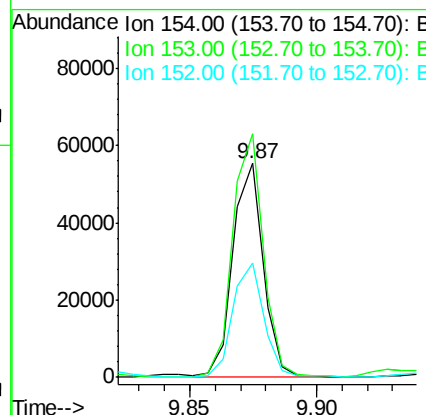
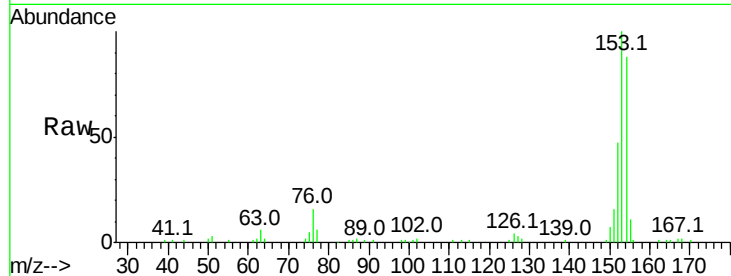
#51
Acenaphthene
Concen: 3.472 ng
RT: 9.87 min Scan# 1324
Delta R.T. -0.01 min
Lab File: BF099763.D
Acq: 23 Oct 2017 17:13

Instrument :
BNA_F
ClientSampleId :
RBR251373-78DL

Tot Ion	Ratio	Lower	Upper
154	100		
153	113.8	91.2	136.8
152	53.4	43.8	65.8

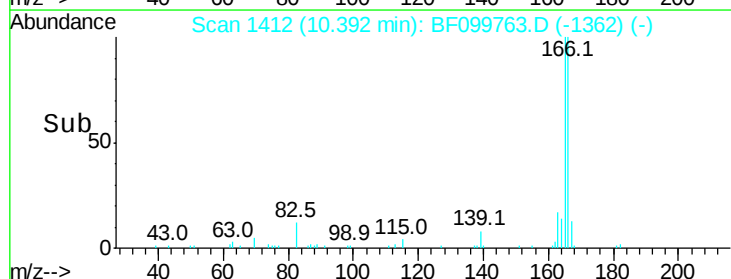
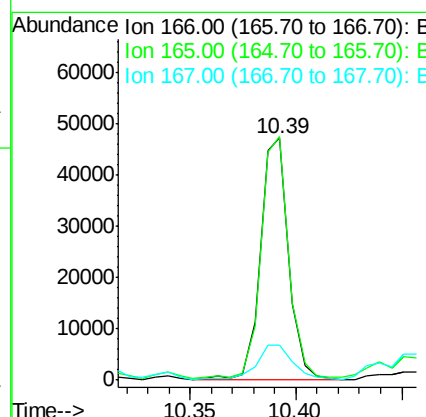
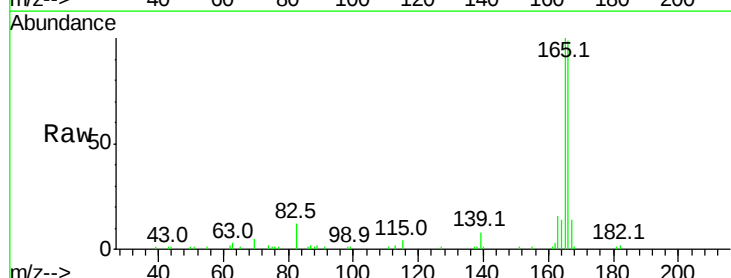
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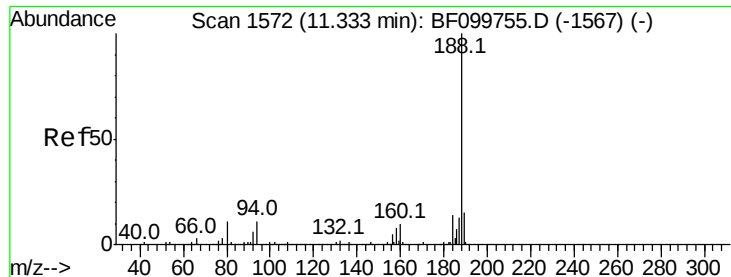
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#57
Fluorene
Concen: 2.830 ng
RT: 10.39 min Scan# 1412
Delta R.T. -0.01 min
Lab File: BF099763.D
Acq: 23 Oct 2017 17:13

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.7	79.8	119.8
167	14.5	10.6	16.0





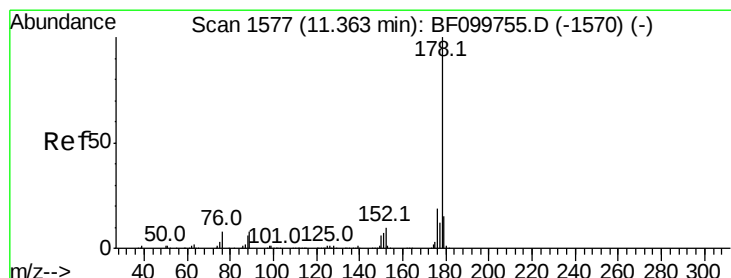
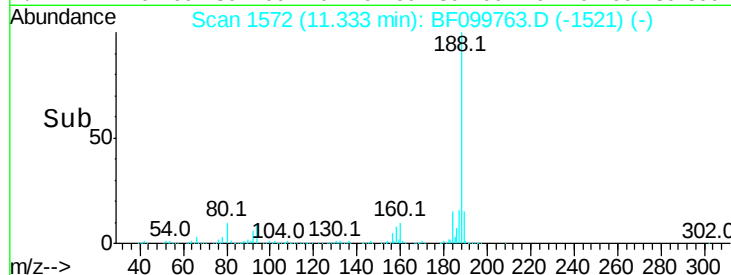
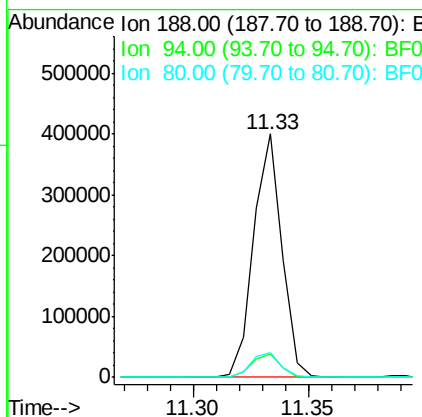
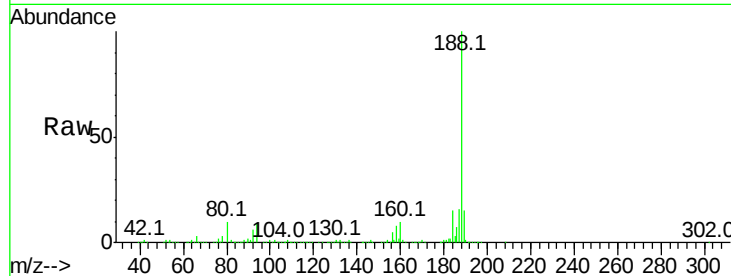
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1572
Delta R.T. -0.00 min
Lab File: BF099763.D
Acq: 23 Oct 2017 17:13

Instrument :
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RBR251373-78DL

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	9.5	8.5	12.7
80	10.3	9.2	13.8

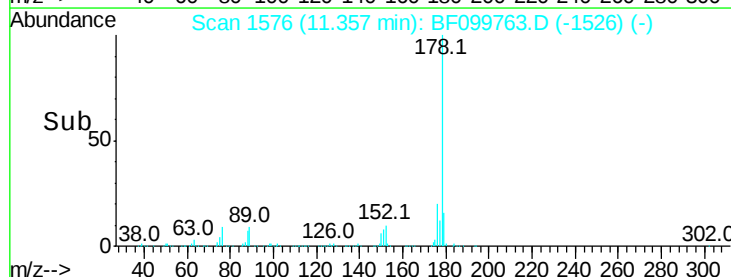
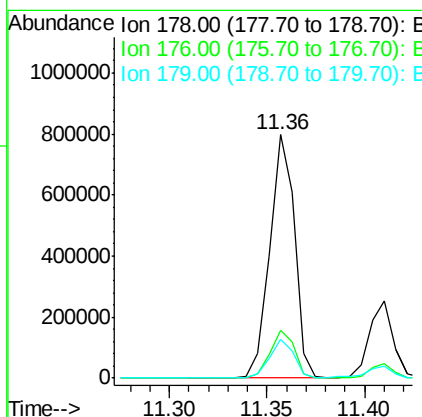
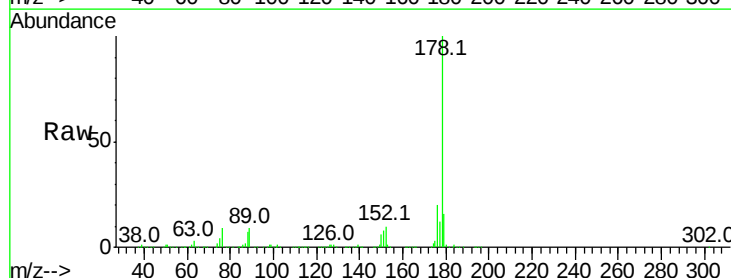
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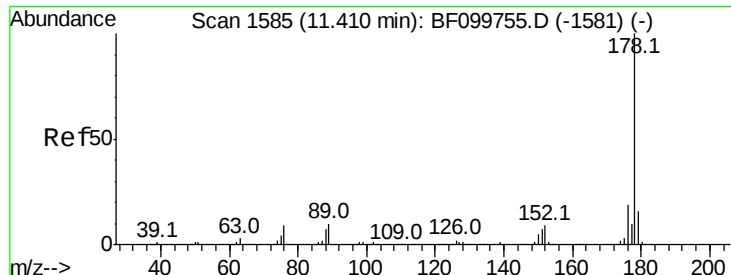
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#70
Phenanthrene
Concen: 36.370 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF099763.D
Acq: 23 Oct 2017 17:13

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.8	15.8	23.8
179	15.9	13.0	19.6





#71

Anthracene

Concen: 10.570 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.00 min

Lab File: BF099763.D

Acq: 23 Oct 2017 17:13

Instrument :

BNA_F

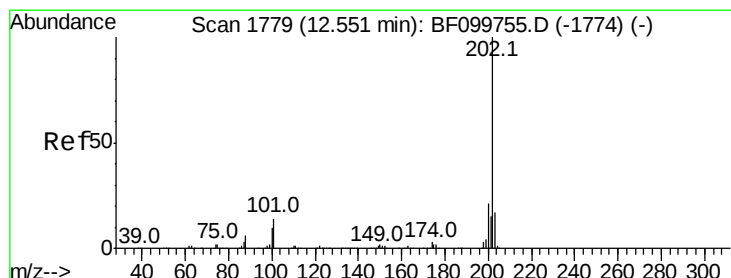
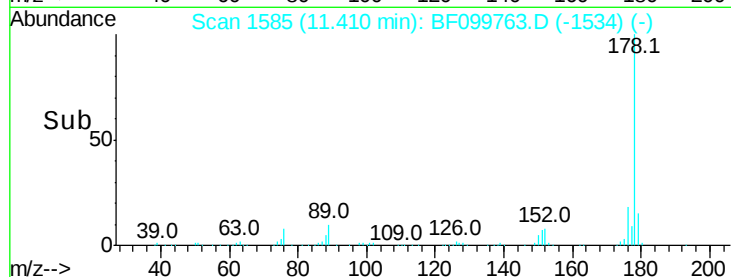
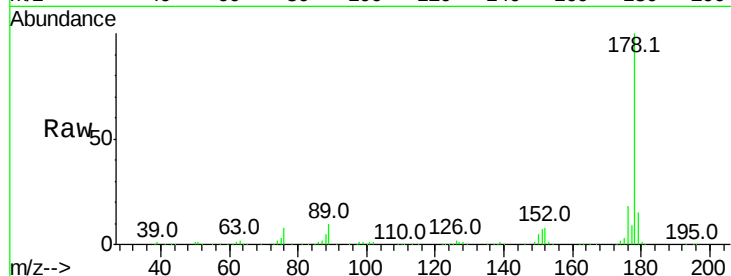
ClientSampleId :

RBR251373-78DL

Tot Ion:	178	Resp:	207126
Ion Ratio	Lower	Upper	
178	100		
176	18.1	15.4	23.2
179	15.3	12.6	19.0

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#74

Fluoranthene

Concen: 38.134 ng

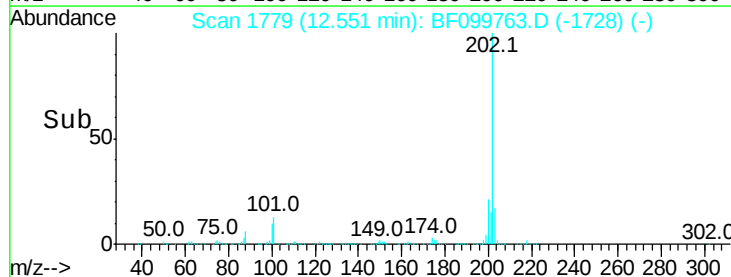
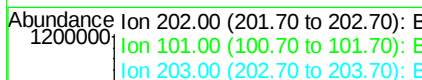
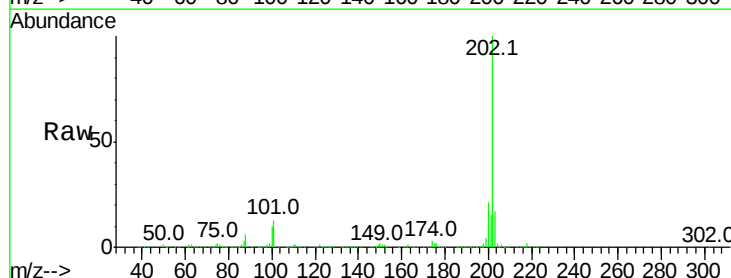
RT: 12.55 min Scan# 1779

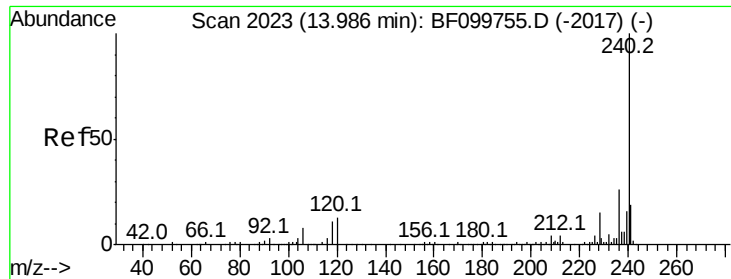
Delta R.T. -0.00 min

Lab File: BF099763.D

Acq: 23 Oct 2017 17:13

Tgt Ion:	202	Resp:	765056
Ion Ratio	Lower	Upper	
202	100		
101	13.4	0.0	34.1
203	17.4	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: BF099763.D

Acq: 23 Oct 2017 17:13

Instrument :

BNA_F

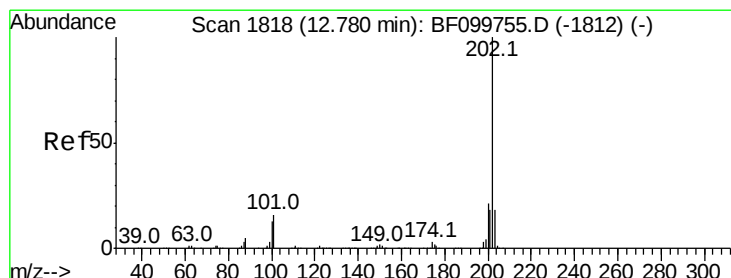
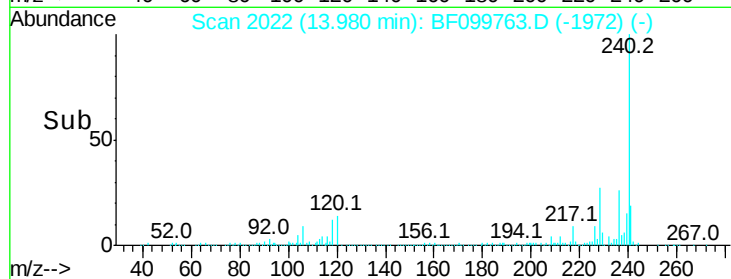
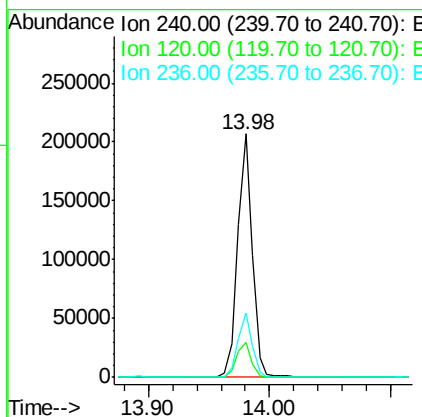
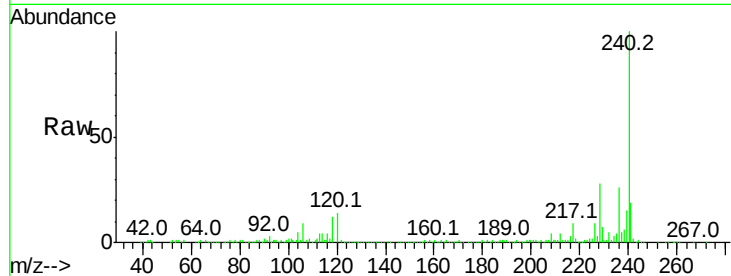
ClientSampleId :

RBR251373-78DL

Tot Ion:	240	Resp:	175644
Ion Ratio	Lower	Upper	
240	100		
120	14.1	9.5	14.3
236	26.2	20.7	31.1

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#77

Pyrene

Concen: 59.426 ng

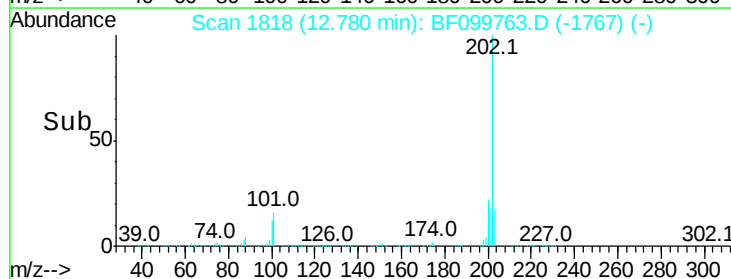
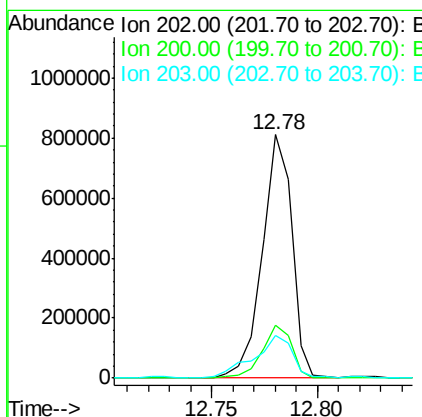
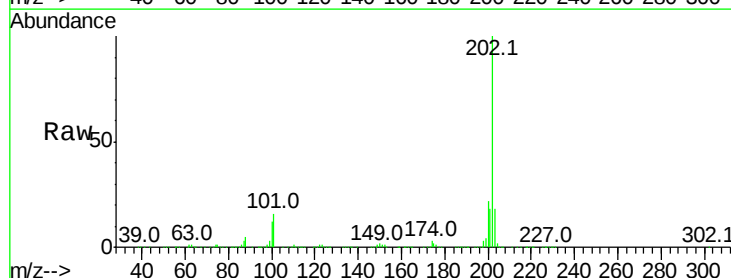
RT: 12.78 min Scan# 1818

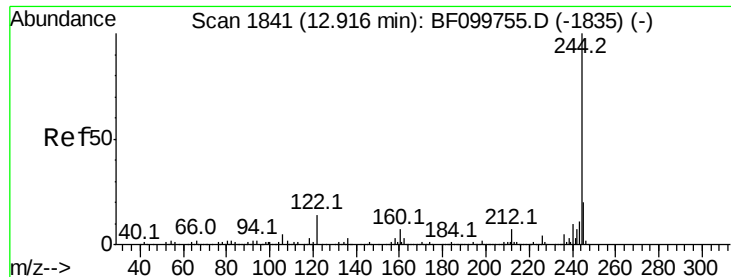
Delta R.T. -0.00 min

Lab File: BF099763.D

Acq: 23 Oct 2017 17:13

Tgt Ion:	202	Resp:	793681
Ion Ratio	Lower	Upper	
202	100		
200	21.8	17.4	26.2
203	17.7	14.3	21.5





#78

Terphenyl-d14

Concen: 3.316 ng

RT: 12.91 min Scan# 1840

Delta R.T. -0.01 min

Lab File: BF099763.D

Acq: 23 Oct 2017 17:13

Instrument :

BNA_F

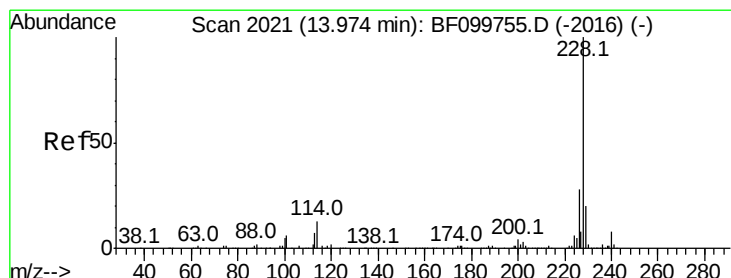
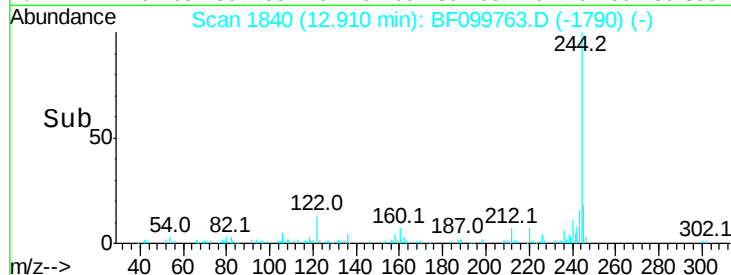
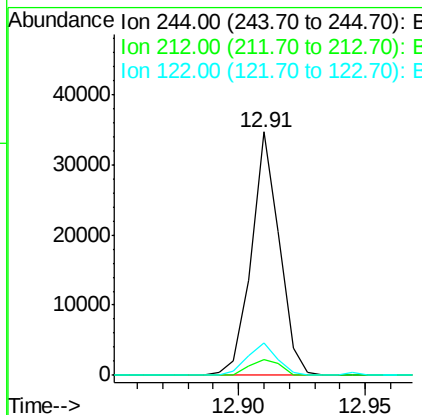
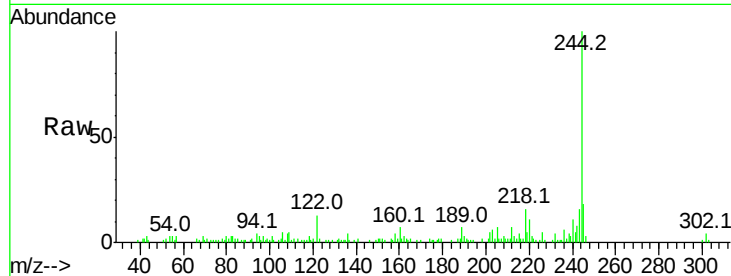
ClientSampleId :

RBR251373-78DL

Tot Ion:	244	Resp:	26655
Ion Ratio		Lower	Upper
244	100		
212	6.6	5.4	8.0
122	13.3	11.0	16.4

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#80

Benzo(a)anthracene

Concen: 27.704 ng

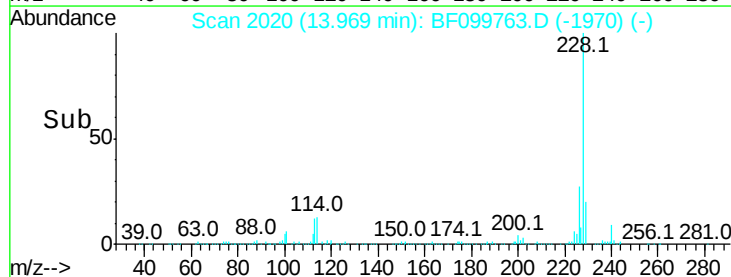
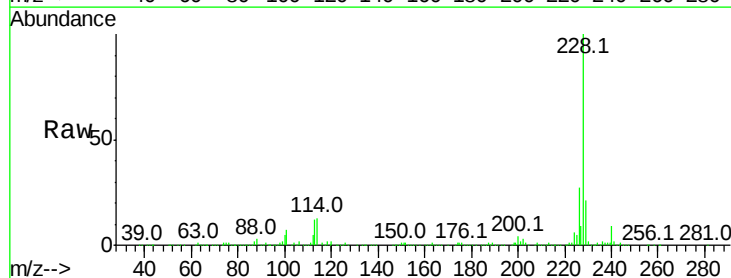
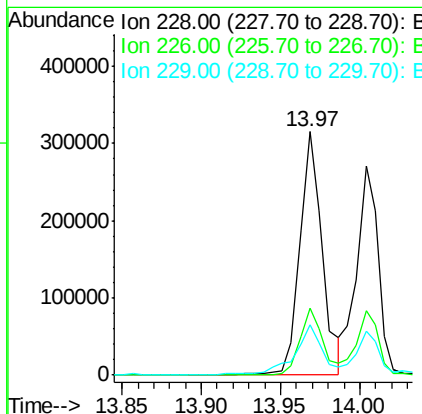
RT: 13.97 min Scan# 2020

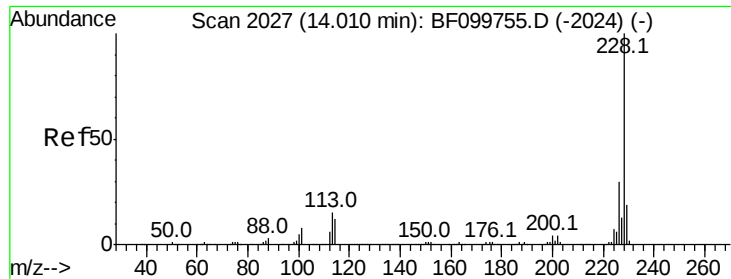
Delta R.T. -0.01 min

Lab File: BF099763.D

Acq: 23 Oct 2017 17:13

Tgt Ion:	228	Resp:	308475
Ion Ratio		Lower	Upper
228	100		
226	27.3	22.6	33.8
229	20.5	15.8	23.6





#82

Chrysene

Concen: 24.663 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF099763.D

Acq: 23 Oct 2017 17:13

Instrument :

BNA_F

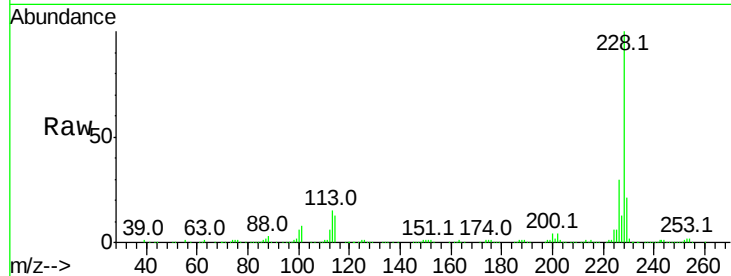
ClientSampleId :

RBR251373-78DL

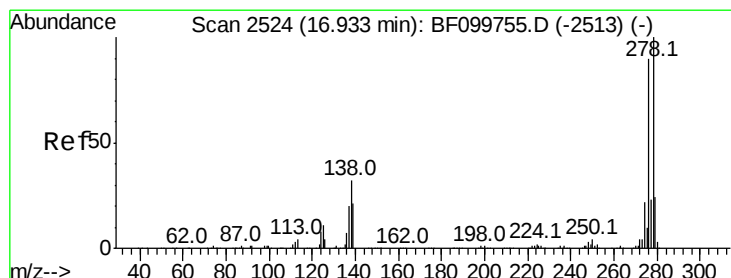
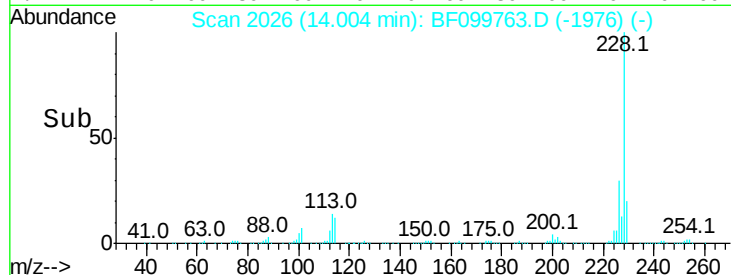
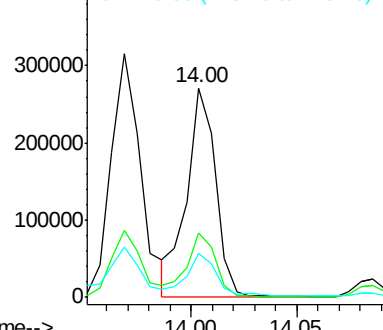
Tot Ion:	228	Resp:	258176
Ion Ratio	Lower	Upper	
228	100		
226	30.5	25.0	37.6
229	20.9	16.2	24.4

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 14.127 ng

RT: 16.92 min Scan# 2521

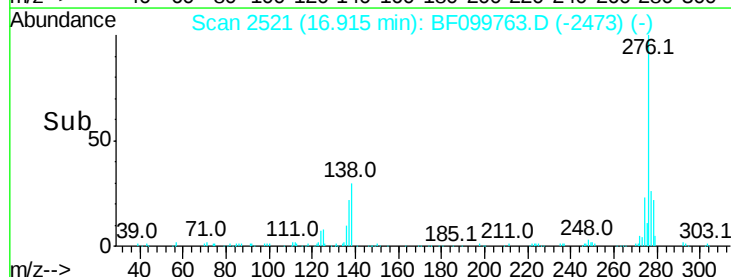
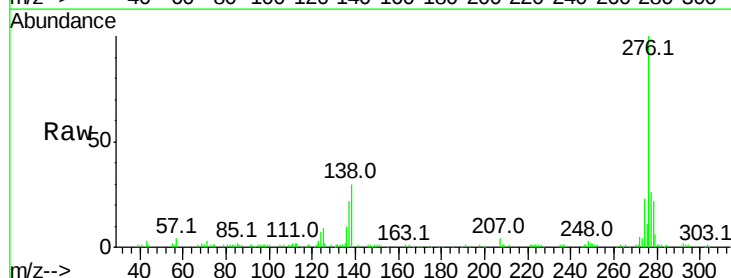
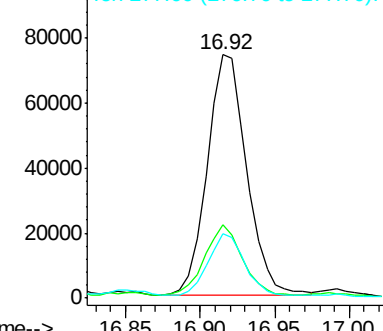
Delta R.T. -0.02 min

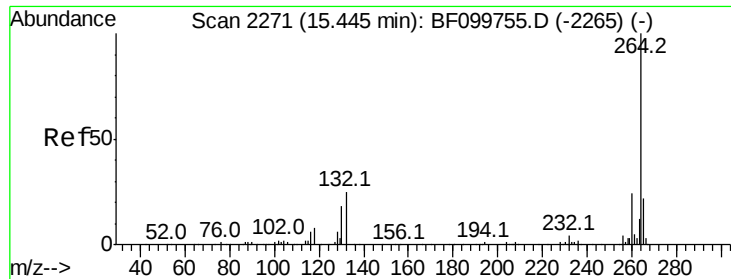
Lab File: BF099763.D

Acq: 23 Oct 2017 17:13

Tgt Ion:	276	Resp:	135755
Ion Ratio	Lower	Upper	
276	100		
138	29.5	25.0	37.6
277	24.8	20.1	30.1

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





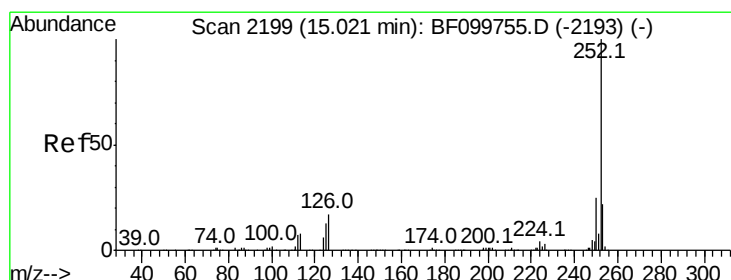
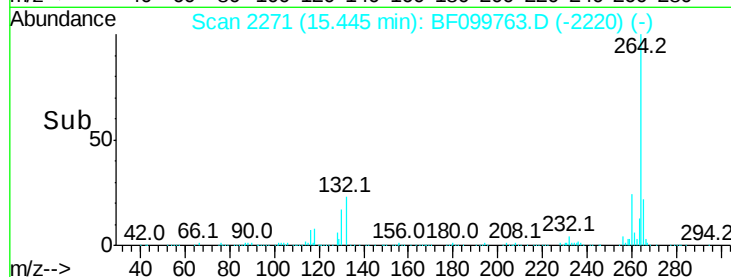
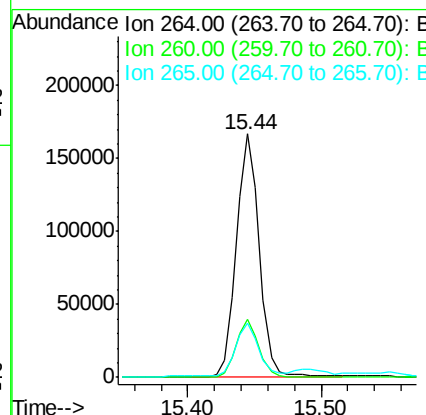
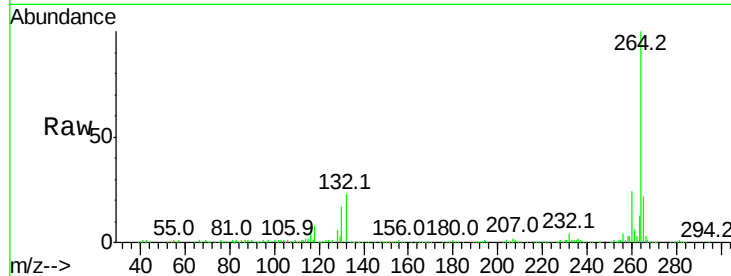
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2271
Delta R.T. -0.00 min
Lab File: BF099763.D
Acq: 23 Oct 2017 17:13

Instrument :
BNA_F
ClientSampleId :
RBR251373-78DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	22.4	17.5	26.3

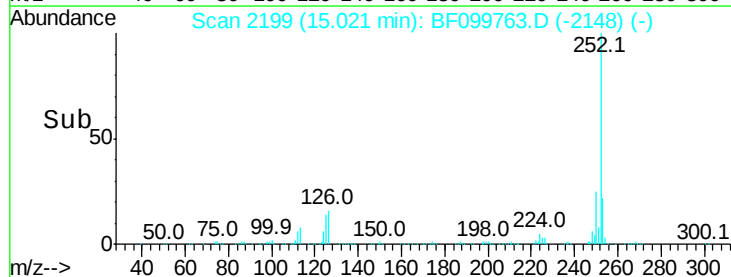
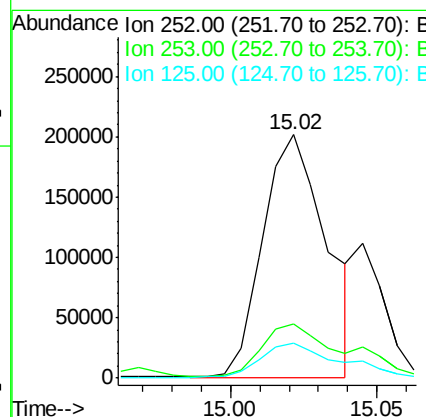
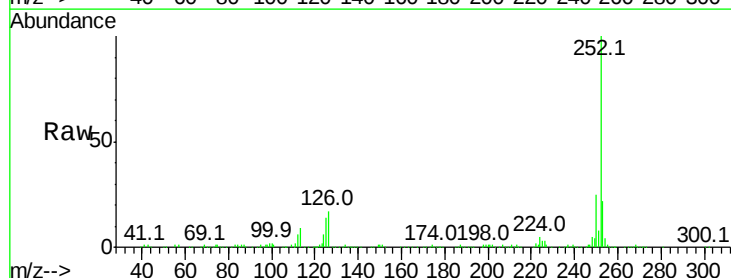
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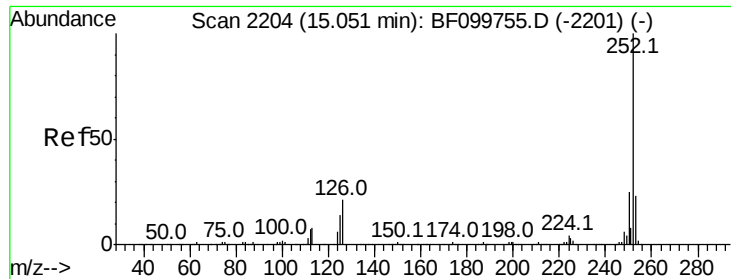
Sohil
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#87
Benzo(b)fluoranthene
Concen: 23.984 ng m
RT: 15.02 min Scan# 2199
Delta R.T. -0.00 min
Lab File: BF099763.D
Acq: 23 Oct 2017 17:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.0	25.6
125	14.1	9.0	13.6#





#88

Benzo(k)fluoranthene

Concen: 6.879 ng/mL

RT: 15.04 min Scan# 2203

Delta R.T. -0.01 min

Lab File: BF099763.D

Acq: 23 Oct 2017 17:13

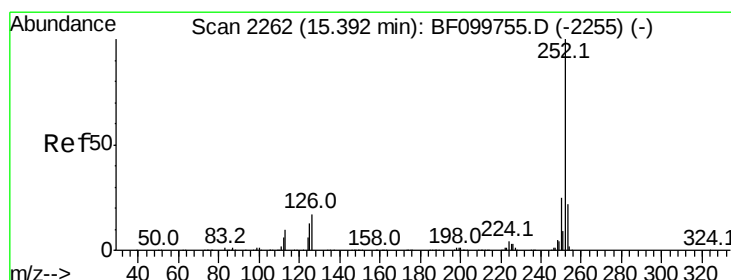
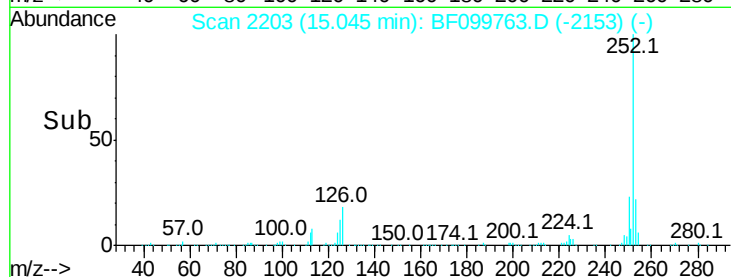
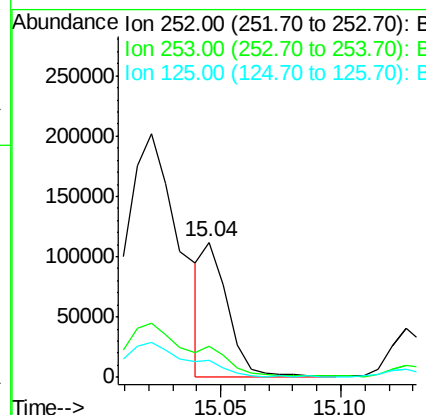
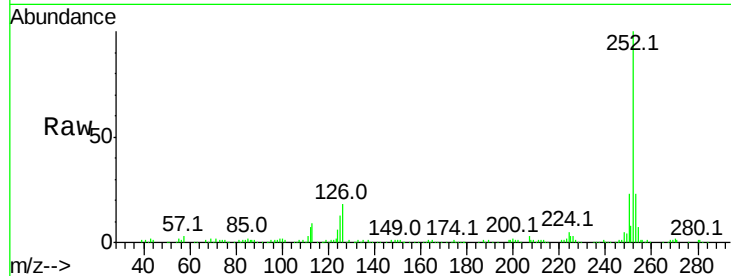
Instrument :
BNA_F

ClientSampleID :
RBR251373-78DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.9	26.9
125	12.8	10.2	15.2

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#89

Benzo(a)pyrene

Concen: 21.253 ng/mL

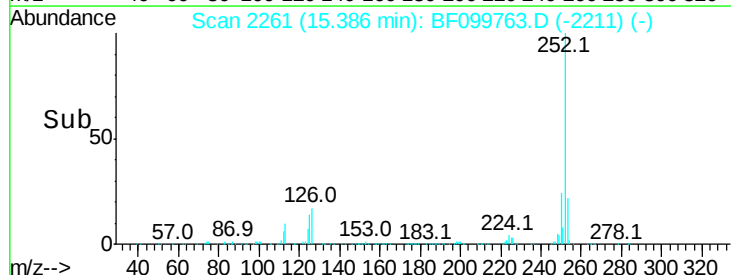
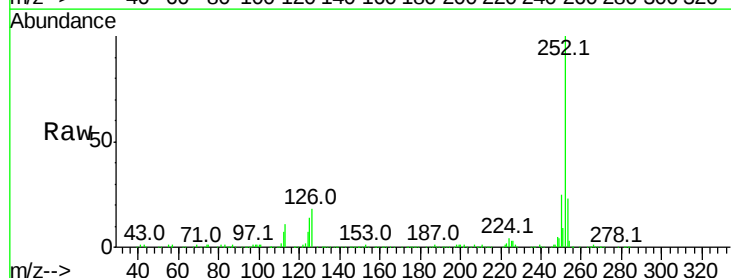
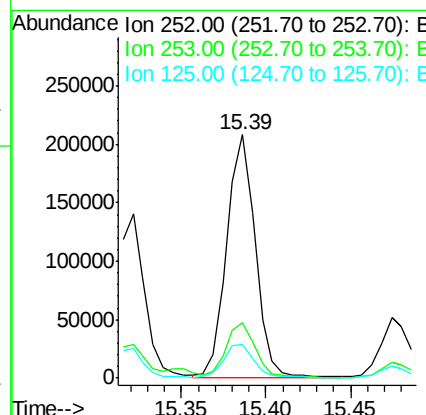
RT: 15.39 min Scan# 2261

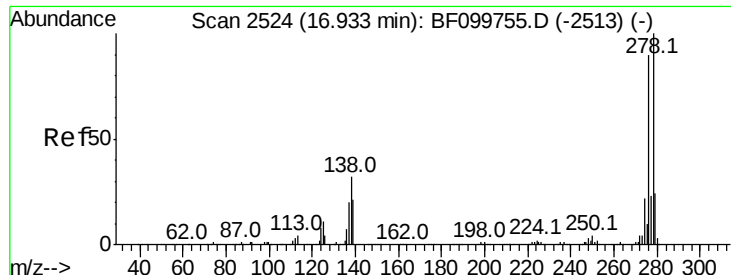
Delta R.T. -0.01 min

Lab File: BF099763.D

Acq: 23 Oct 2017 17:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.1	25.7
125	13.8	9.8	14.6





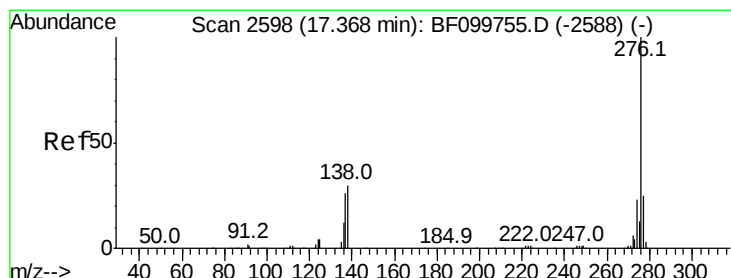
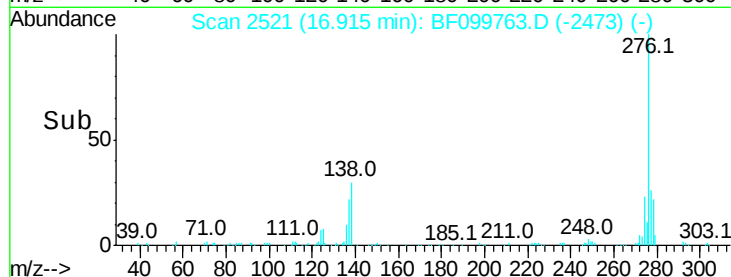
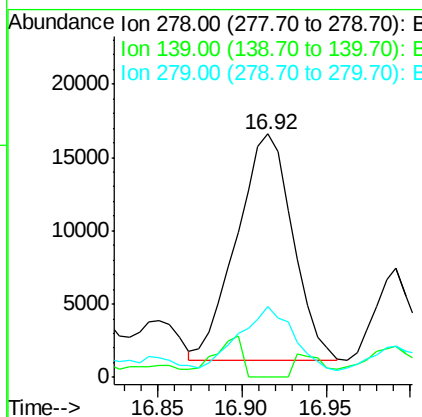
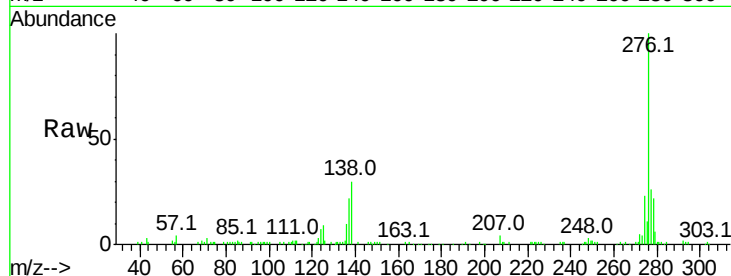
#90
Dibenzo(a,h)anthracene
Concen: 3.481 ng m
RT: 16.92 min Scan# 2521
Delta R.T. -0.02 min
Lab File: BF099763.D
Acq: 23 Oct 2017 17:13

Instrument :
BNA_F
ClientSampleId :
RBR251373-78DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	28.9	19.0	28.4#

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#91
Benzo(g,h,i)perylene
Concen: 13.927 ng
RT: 17.36 min Scan# 2597
Delta R.T. -0.01 min
Lab File: BF099763.D
Acq: 23 Oct 2017 17:13

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.3	17.9	26.9
138	29.6	21.8	32.8

