

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100417\
 Data File : BF099089.D
 Acq On : 5 Oct 2017 1:40
 Operator : SJ/JU
 Sample : I5647-01 10X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OK-02-100317

Manual Integrations
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 10/5/2017 6:15:47 PM

Quant Time: Oct 05 13:34:38 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 23 13:50:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	115096	20.00	ng	-0.06
21) Naphthalene-d8	8.15	136	470791	20.00	ng	-0.06
38) Acenaphthene-d10	9.90	164	202641	20.00	ng	-0.06
63) Phenanthrene-d10	11.39	188	328220	20.00	ng	-0.06
75) Chrysene-d12	14.03	240	195614	20.00	ng	-0.06
86) Perylene-d12	15.50	264	208873	20.00	ng	-0.07
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	74255	10.27	ng	-0.06
7) Phenol-d6	6.48	99	90452	10.14	ng	-0.06
23) Nitrobenzene-d5	7.42	82	50316	6.85	ng	-0.06
41) 2,4,6-Tribromophenol	10.69	330	14595	8.80	ng	-0.06
44) 2-Fluorobiphenyl	9.22	172	105107	8.66	ng	-0.06
78) Terphenyl-d14	12.96	244	66806	7.77	ng	-0.07
Target Compounds						
31) Naphthalene	8.17	128	68620	3.103	ng	98
51) Acenaphthene	9.93	154	45493	3.588	ng	98
54) Dibenzofuran	10.10	168	40481	2.398	ng	98
57) Fluorene	10.45	166	57417	4.231	ng	100
70) Phenanthrene	11.41	178	378578	21.548	ng	99
71) Anthracene	11.46	178	126687	7.048	ng	97
74) Fluoranthene	12.60	202	495073	27.828	ng	96
77) Pyrene	12.83	202	402207	26.964	ng	100
80) Benzo(a)anthracene	14.02	228	200929	16.963	ng	100
82) Chrysene	14.05	228	159664	14.159	ng	97
85) Indeno(1,2,3-cd)pyrene	16.97	276	106304	11.784	ng	98
87) Benzo(b)fluoranthene	15.07	252	246035m	19.158	ng	
88) Benzo(k)fluoranthene	15.09	252	79428m	6.262	ng	
89) Benzo(a)pyrene	15.44	252	191104	16.211	ng	96
90) Dibenzo(a,h)anthracene	16.98	278	28513m	3.022	ng	
91) Benzo(g,h,i)perylene	17.43	276	101720	10.908	ng	95

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



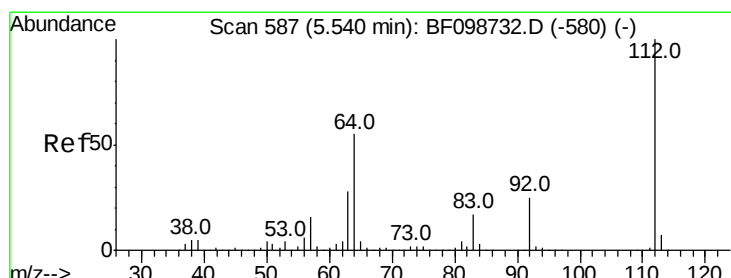
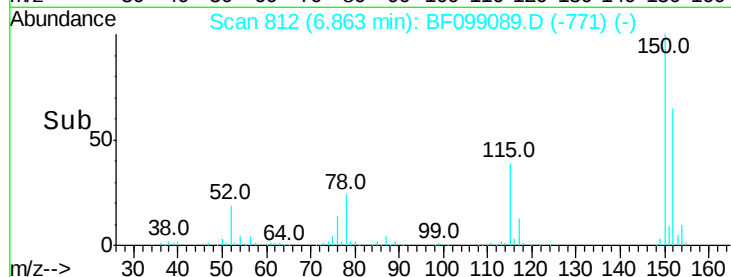
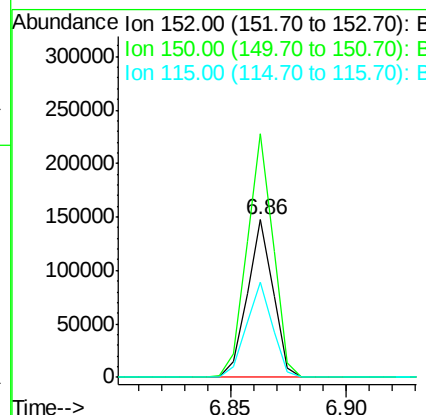
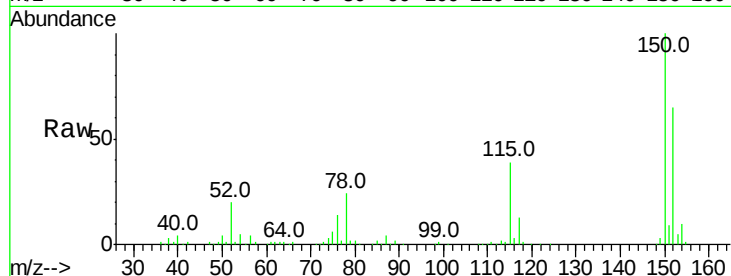
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.86 min Scan# 812
 Delta R.T. -0.06 min
 Lab File: BF099089.D
 Acq: 5 Oct 2017 1:40

Instrument :
 BNA_F
 ClientSampleId :
 OK-02-100317

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.6	124.6	186.8
115	60.3	50.1	75.1

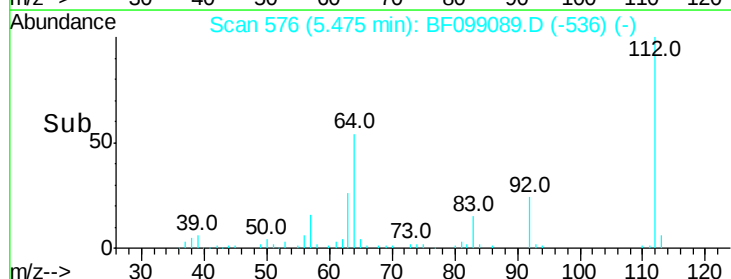
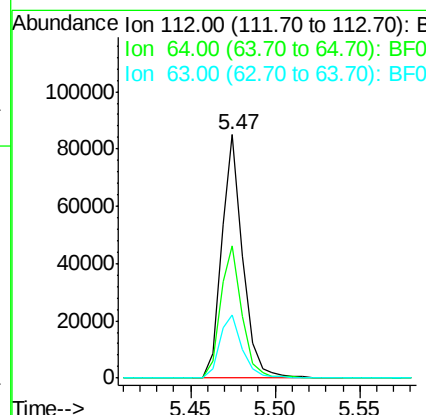
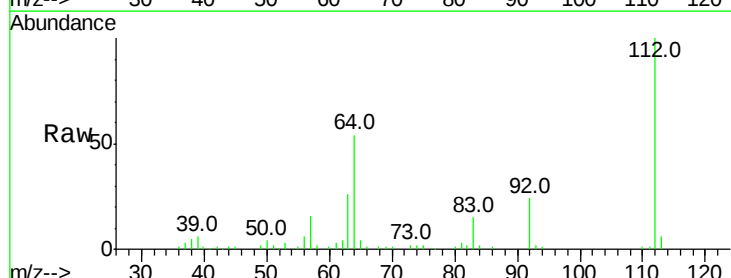
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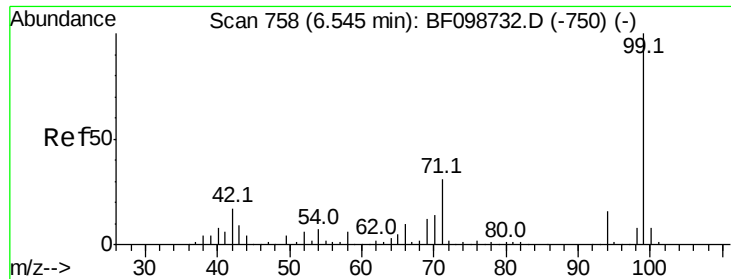
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#5
 2-Fluorophenol
 Concen: 10.270 ng
 RT: 5.47 min Scan# 576
 Delta R.T. -0.06 min
 Lab File: BF099089.D
 Acq: 5 Oct 2017 1:40

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.1	47.9	71.9
63	26.1	23.7	35.5





#7

Phenol-d6

Concen: 10.141 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.06 min

Lab File: BF099089.D

Acq: 5 Oct 2017 1:40

Instrument :

BNA_F

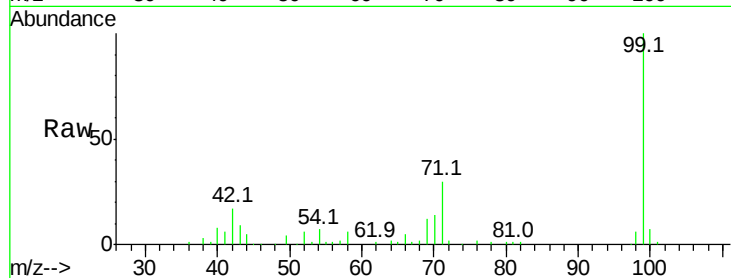
ClientSampled :

OK-02-100317

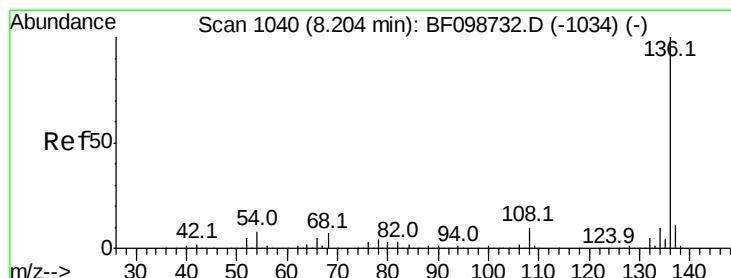
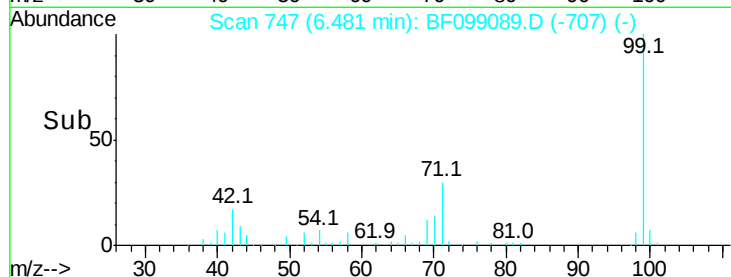
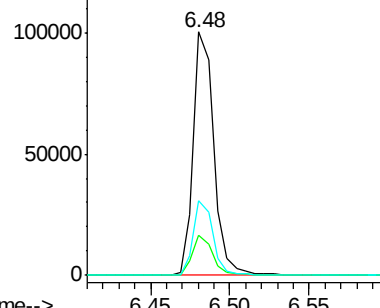
Tot Ion:	99	Resp:	90452
Ion Ratio	Lower	Upper	
99	100		
42	16.6	14.5	21.7
71	30.4	25.4	38.0

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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.15 min Scan# 1030

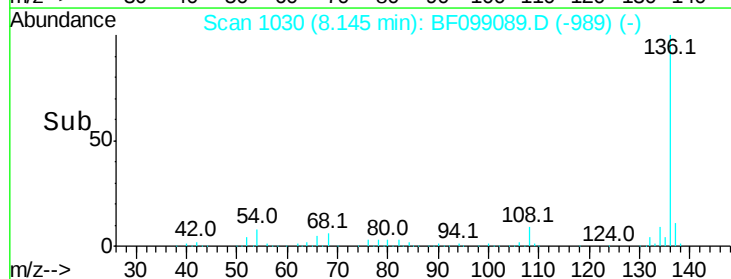
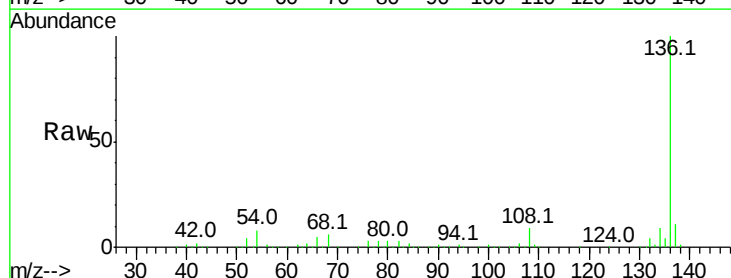
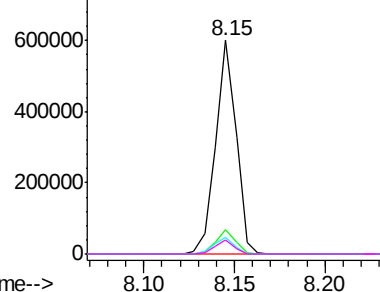
Delta R.T. -0.06 min

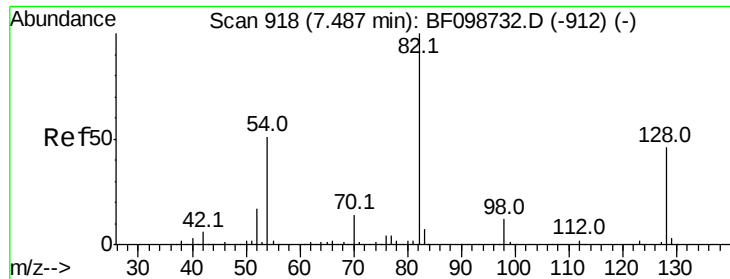
Lab File: BF099089.D

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Tgt Ion:	136	Resp:	470791
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	7.6	6.6	9.8
68	6.5	5.0	7.4

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0





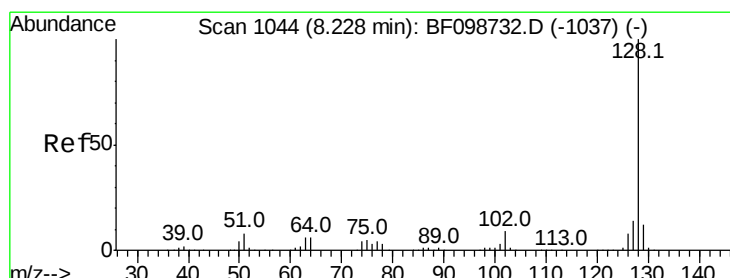
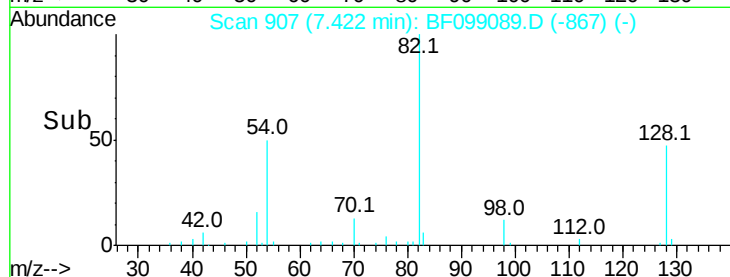
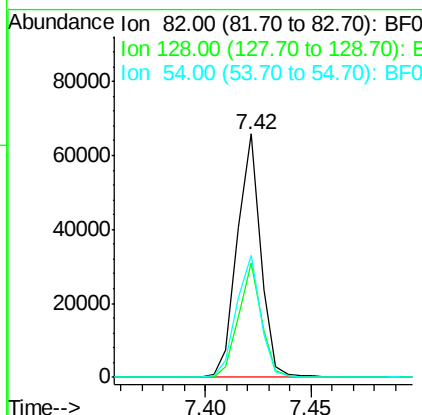
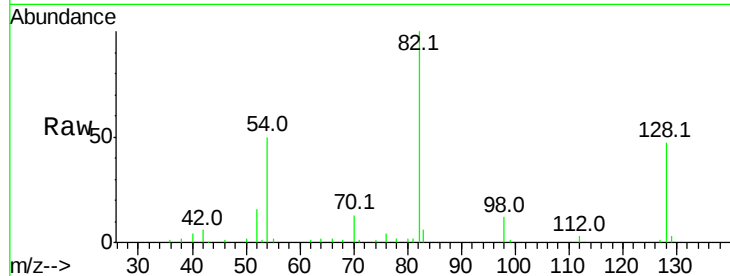
#23
Nitrobenzene-d5
Concen: 6.854 ng
RT: 7.42 min Scan# 907
Delta R.T. -0.06 min
Lab File: BF099089.D
Acq: 5 Oct 2017 1:40

Instrument :
BNA_F
ClientSampleId :
OK-02-100317

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	47.0	36.1	54.1	
54	50.4	41.4	62.2	

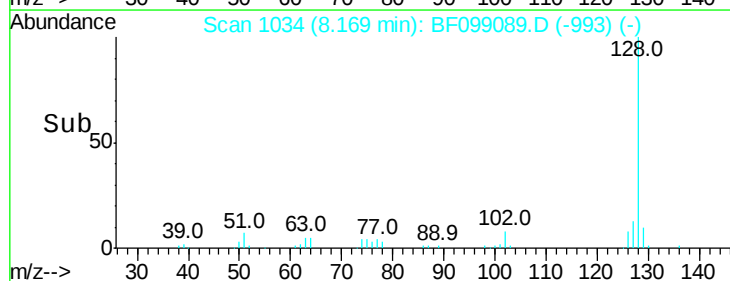
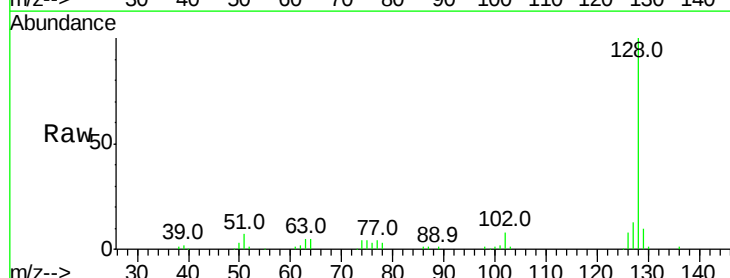
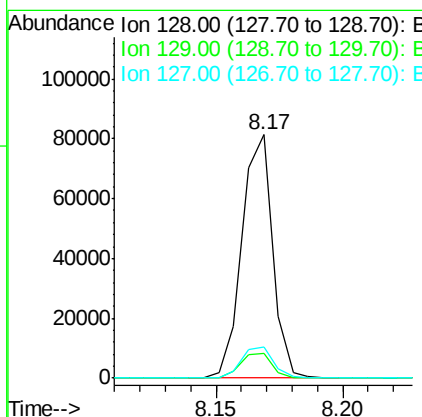
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#31
Naphthalene
Concen: 3.103 ng
RT: 8.17 min Scan# 1034
Delta R.T. -0.06 min
Lab File: BF099089.D
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Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.4	8.8	13.2	
127	12.9	10.9	16.3	





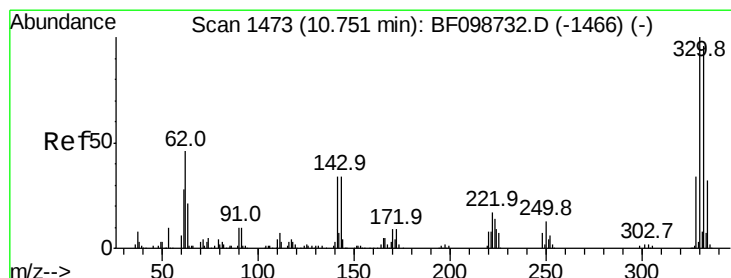
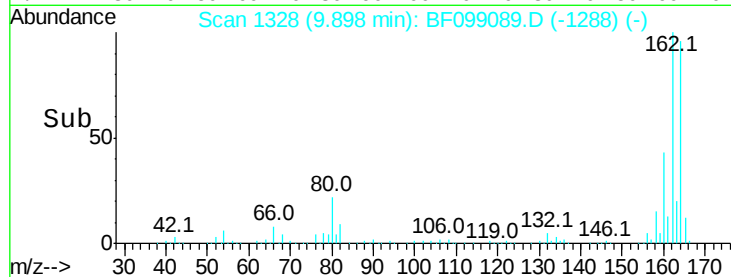
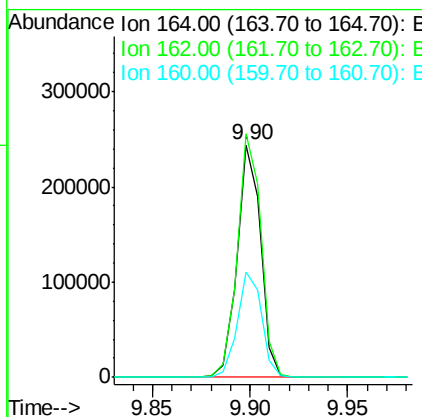
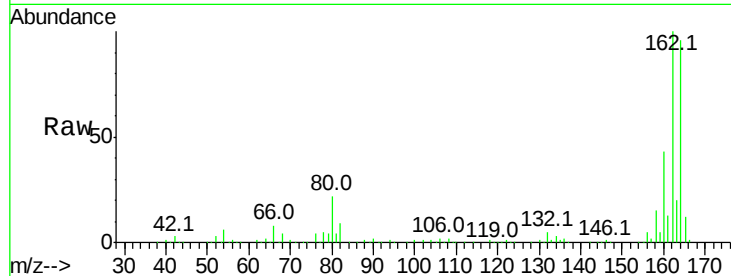
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.06 min
Lab File: BF099089.D
Acq: 5 Oct 2017 1:40

Instrument :
BNA_F
ClientSampleId :
OK-02-100317

Tot Ion	Ratio	Resp	Lower	Upper
164	100	202641		
162	104.7	86.1	129.1	
160	45.3	38.3	57.5	

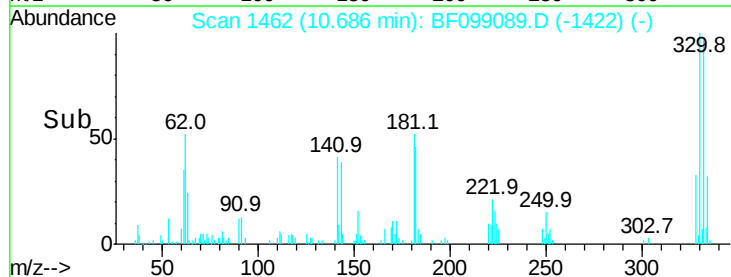
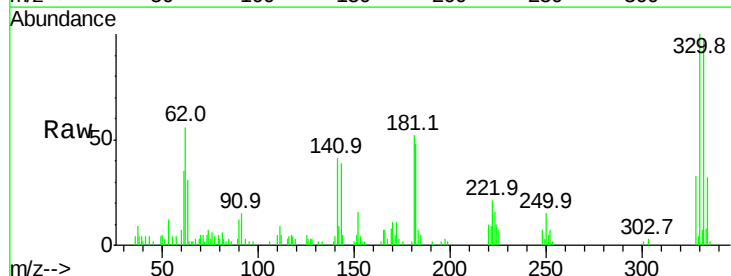
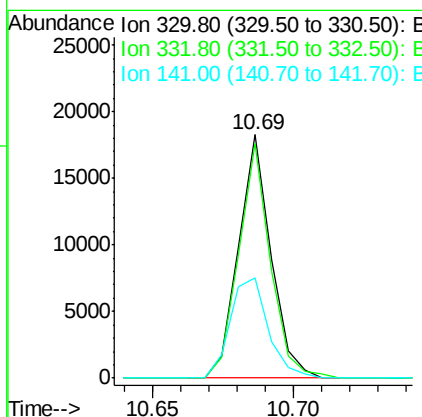
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#41
2,4,6-Tribromophenol
Concen: 8.802 ng
RT: 10.69 min Scan# 1462
Delta R.T. -0.06 min
Lab File: BF099089.D
Acq: 5 Oct 2017 1:40

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	14595		
332	94.5	77.0	115.6	
141	48.5	29.9	44.9#	





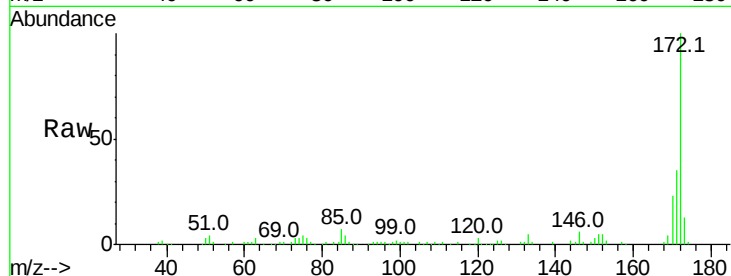
#44
2-Fluorobiphenyl
Concen: 8.659 ng
RT: 9.22 min Scan# 1212
Delta R.T. -0.06 min
Lab File: BF099089.D
Acq: 5 Oct 2017 1:40

Instrument :
BNA_F
ClientSampleId :
OK-02-100317

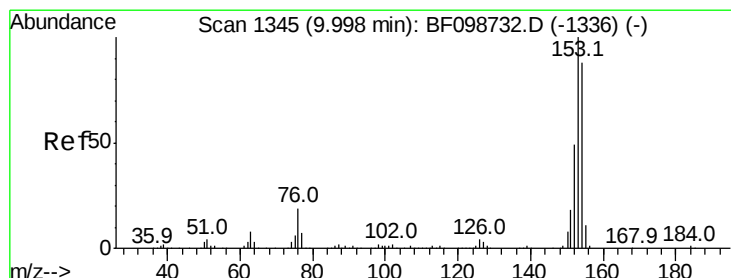
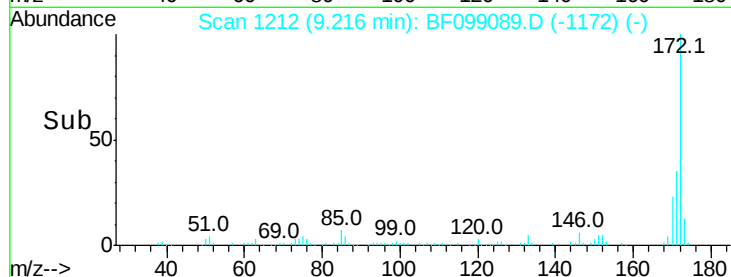
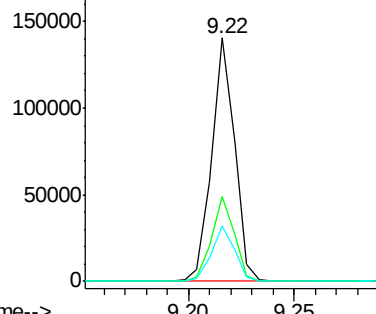
Tot Ion	Ratio	Resp	Lower	Upper
172	100	105107		
171	35.0		29.7	44.5
170	22.8		19.6	29.4

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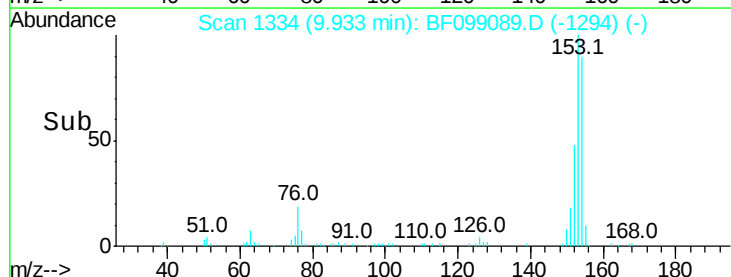
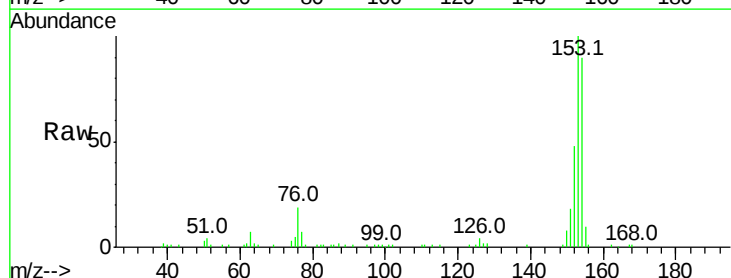
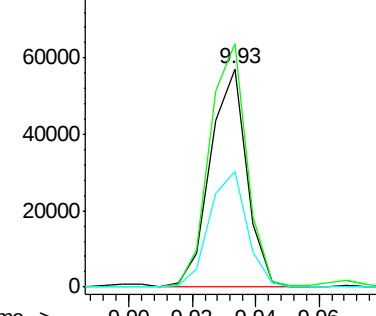
Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

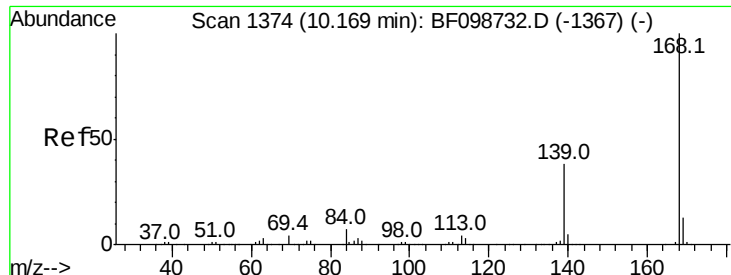


#51
Acenaphthene
Concen: 3.588 ng
RT: 9.93 min Scan# 1334
Delta R.T. -0.06 min
Lab File: BF099089.D
Acq: 5 Oct 2017 1:40

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	45493		
153	111.4		91.2	136.8
152	52.9		43.8	65.8

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: 2.398 ng

RT: 10.10 min Scan# 1363

Delta R.T. -0.06 min

Lab File: BF099089.D

Acq: 5 Oct 2017 1:40

Instrument :

BNA_F

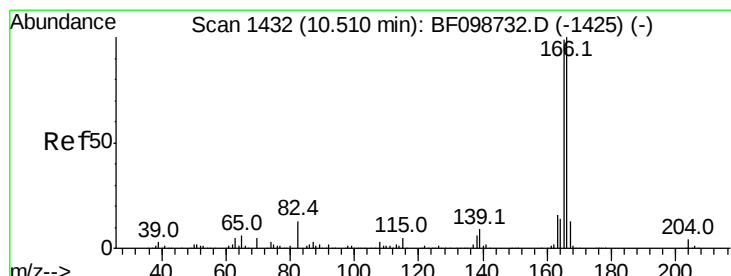
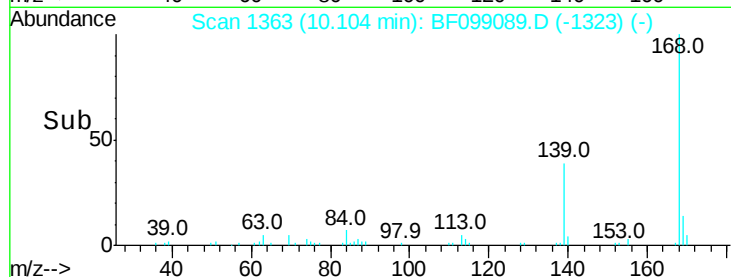
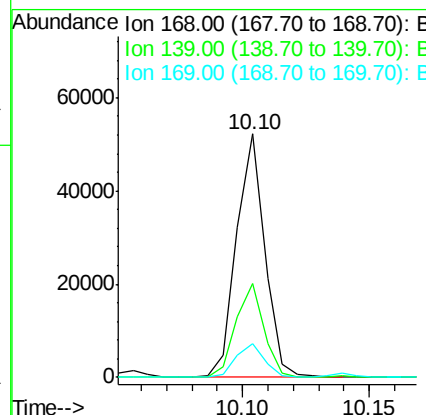
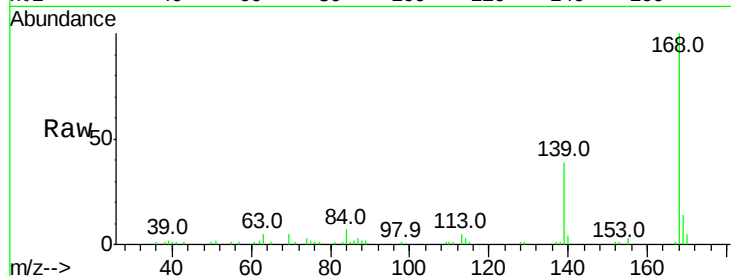
ClientSampleId :

OK-02-100317

Tot Ion:	168	Resp:	40481
Ion Ratio	Lower	Upper	
168	100		
139	38.7	30.1	45.1
169	13.9	10.9	16.3

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#57

Fluorene

Concen: 4.231 ng

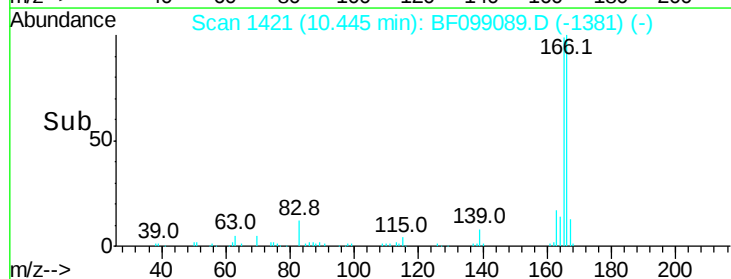
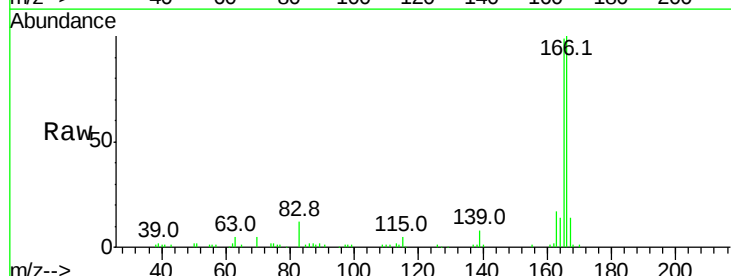
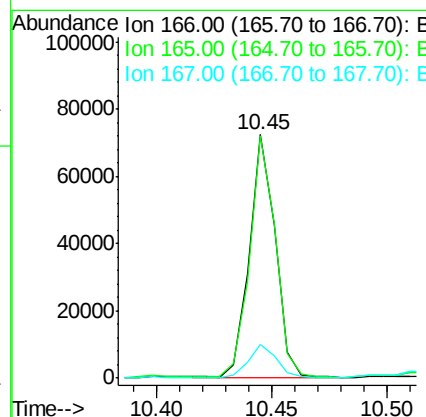
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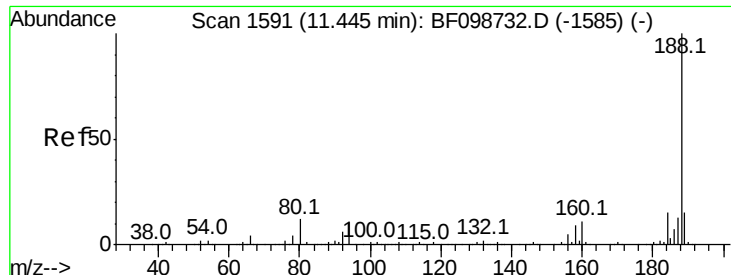
Delta R.T. -0.06 min

Lab File: BF099089.D

Acq: 5 Oct 2017 1:40

Tgt Ion:	166	Resp:	57417
Ion Ratio	Lower	Upper	
166	100		
165	99.4	79.8	119.8
167	13.6	10.6	16.0





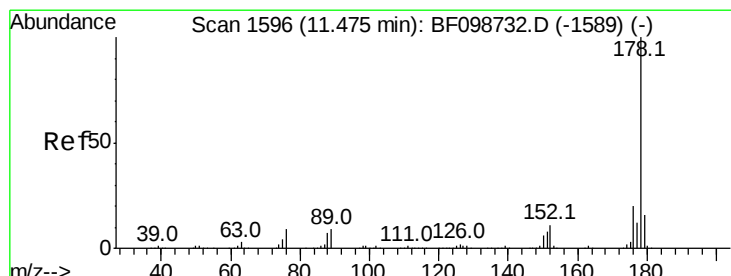
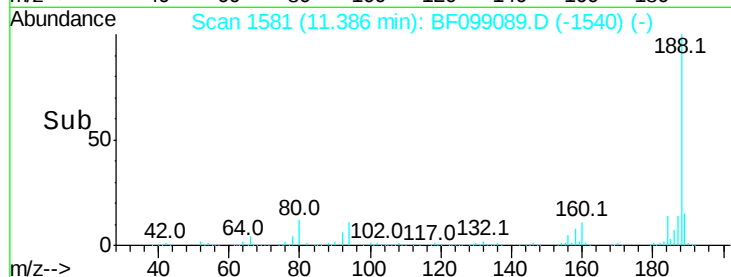
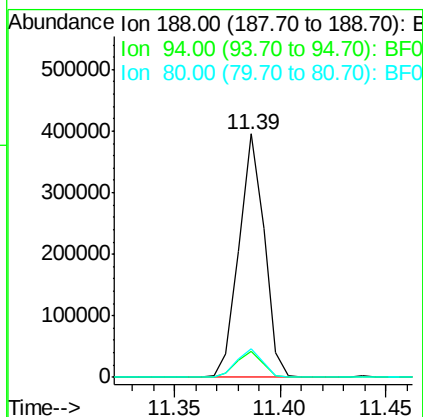
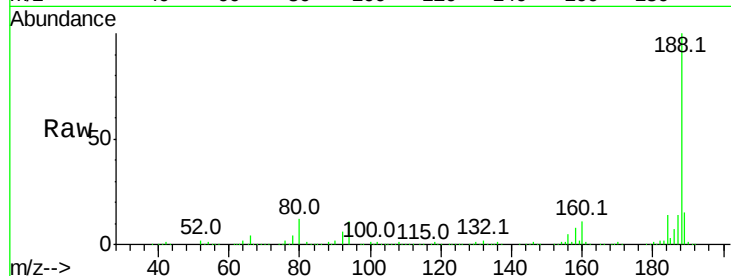
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.39 min Scan# 1581
Delta R.T. -0.06 min
Lab File: BF099089.D
Acq: 5 Oct 2017 1:40

Instrument :
BNA_F
ClientSampled :
OK-02-100317

Tot Ion	Ratio	Resp	Lower	Upper
188	100			
94	10.8	8.5	12.7	
80	11.6	9.2	13.8	

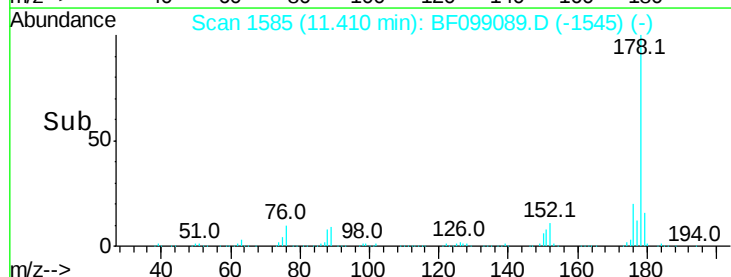
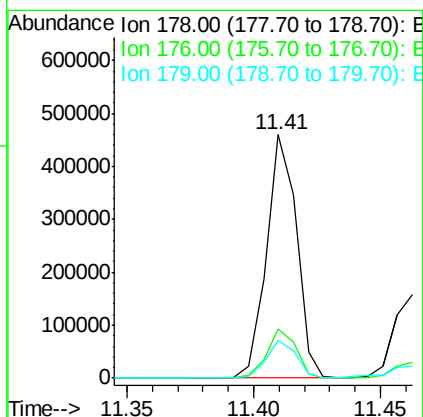
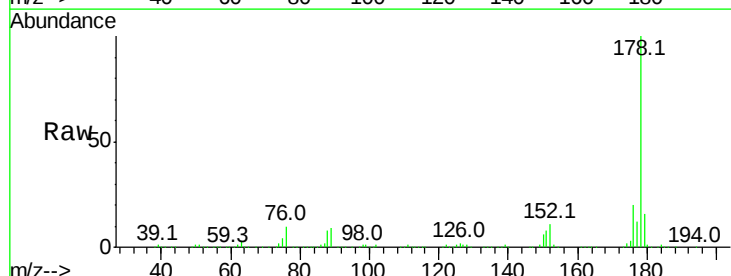
Manual Integrations
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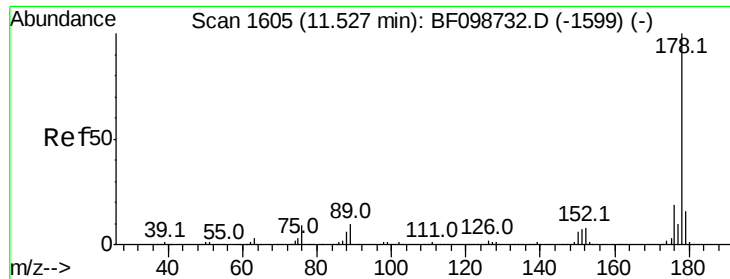
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#70
Phenanthrene
Concen: 21.548 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.06 min
Lab File: BF099089.D
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Tgt Ion	Ratio	Resp	Lower	Upper
178	100			
176	20.1	15.8	23.8	
179	15.6	13.0	19.6	





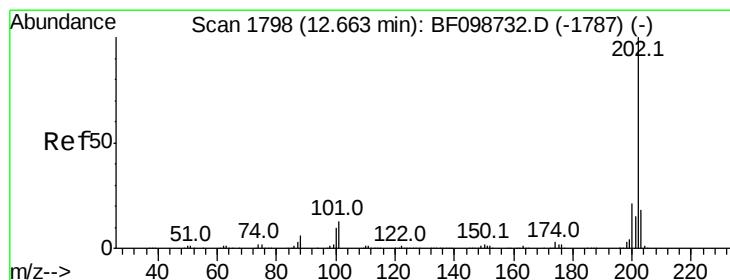
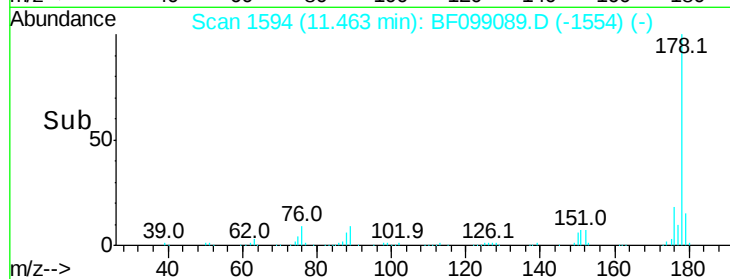
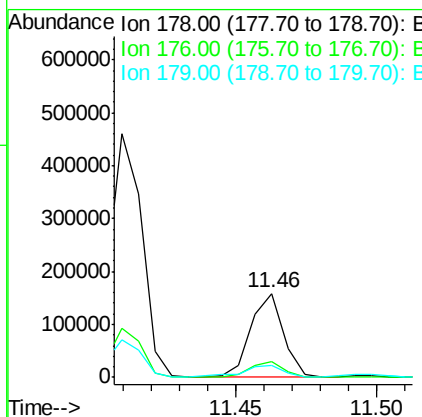
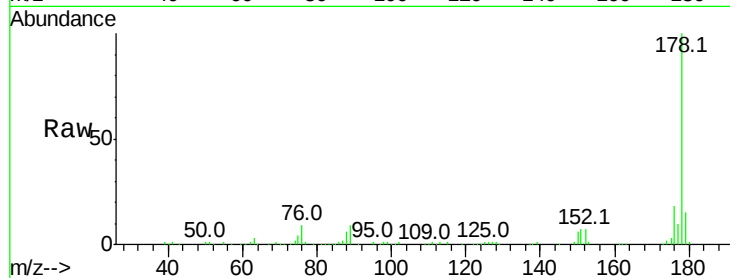
#71
 Anthracene
 Concen: 7.048 ng
 RT: 11.46 min Scan# 1594
 Delta R.T. -0.06 min
 Lab File: BF099089.D
 Acq: 5 Oct 2017 1:40

Instrument :
 BNA_F
 ClientSampleId :
 OK-02-100317

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.4	23.2
179	14.7	12.6	19.0

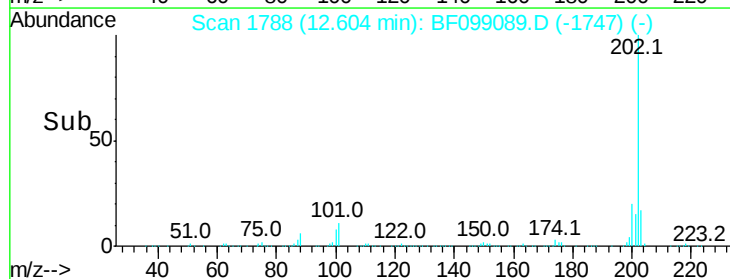
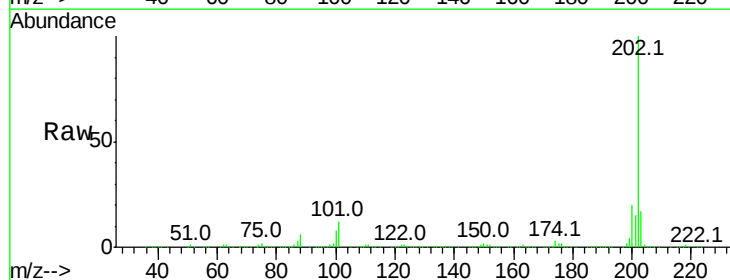
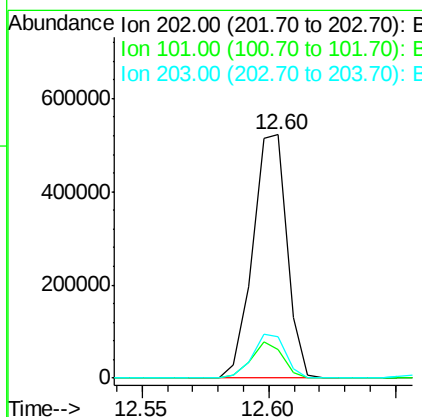
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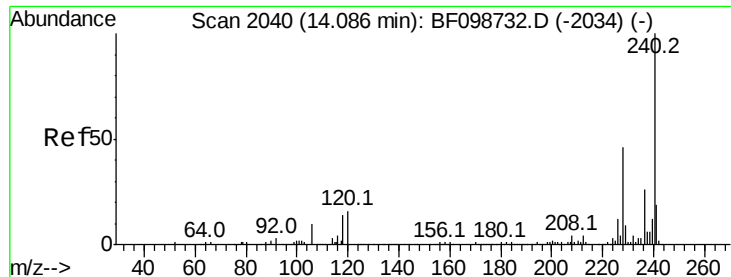
Sohil
 10/5/2017 6:15:47 PM



#74
 Fluoranthene
 Concen: 27.828 ng
 RT: 12.60 min Scan# 1788
 Delta R.T. -0.06 min
 Lab File: BF099089.D
 Acq: 5 Oct 2017 1:40

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	34.1
203	17.2	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.06 min

Lab File: BF099089.D

Acq: 5 Oct 2017 1:40

Instrument :

BNA_F

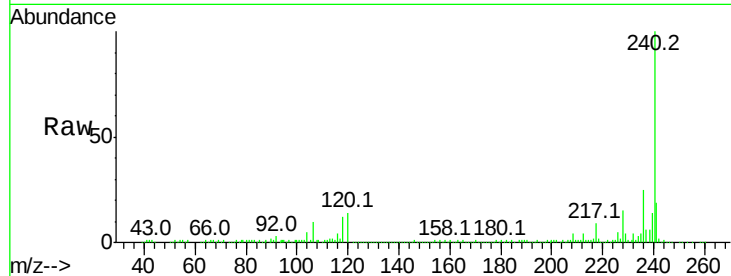
ClientSampleId :

OK-02-100317

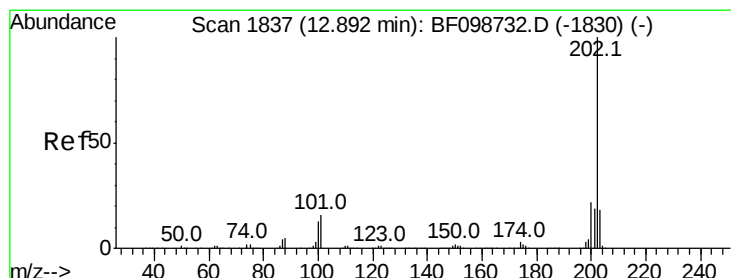
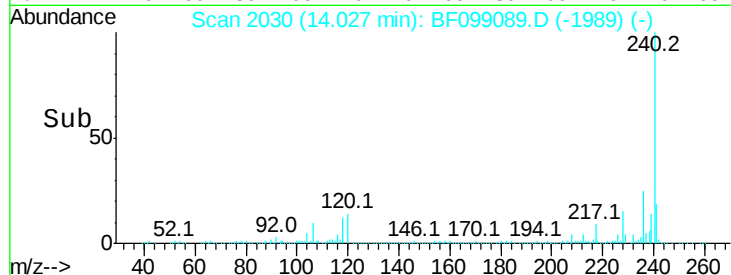
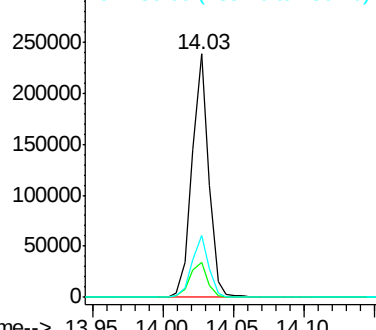
Tot Ion:	240	Resp:	195614
Ion Ratio	Lower	Upper	
240	100		
120	14.2	9.5	14.3
236	25.2	20.7	31.1

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Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 26.964 ng

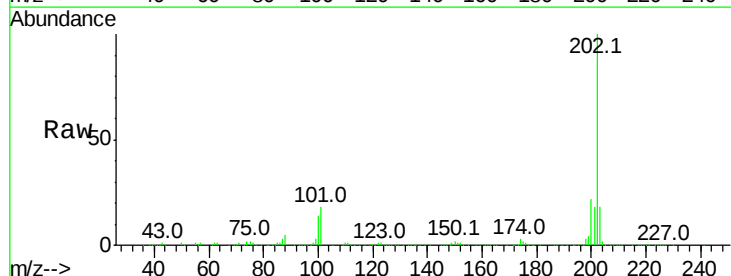
RT: 12.83 min Scan# 1826

Delta R.T. -0.06 min

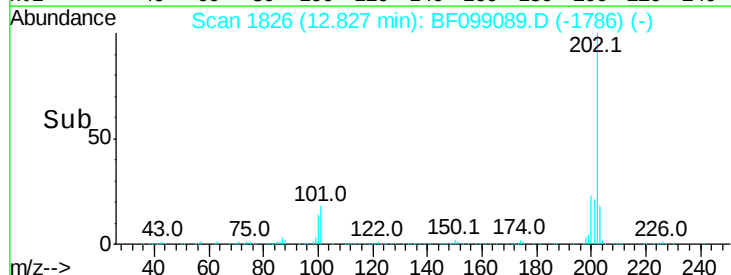
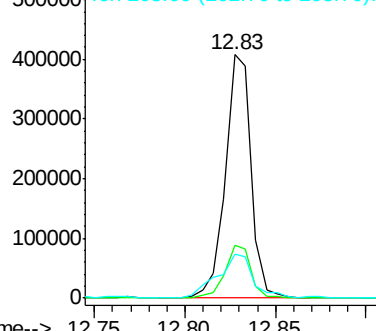
Lab File: BF099089.D

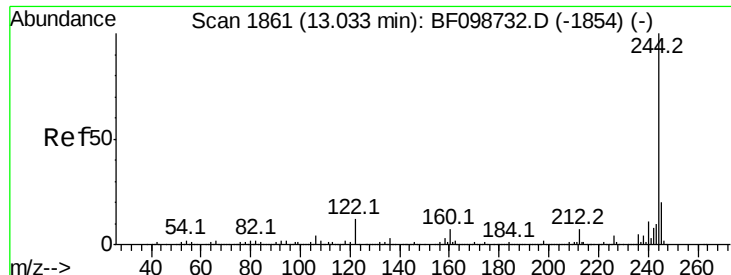
Acq: 5 Oct 2017 1:40

Tgt Ion:	202	Resp:	402207
Ion Ratio	Lower	Upper	
202	100		
200	21.7	17.4	26.2
203	17.9	14.3	21.5



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 7.767 ng

RT: 12.96 min Scan# 1849

Delta R.T. -0.07 min

Lab File: BF099089.D

Acq: 5 Oct 2017 1:40

Instrument :

BNA_F

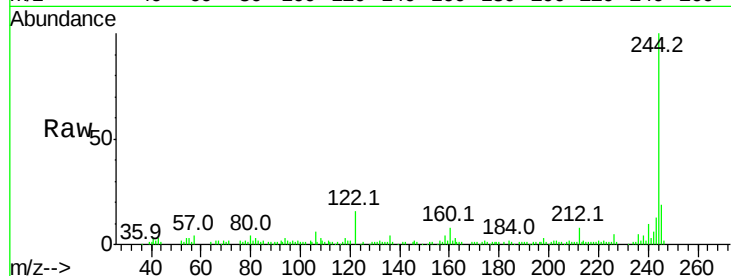
ClientSampleId :

OK-02-100317

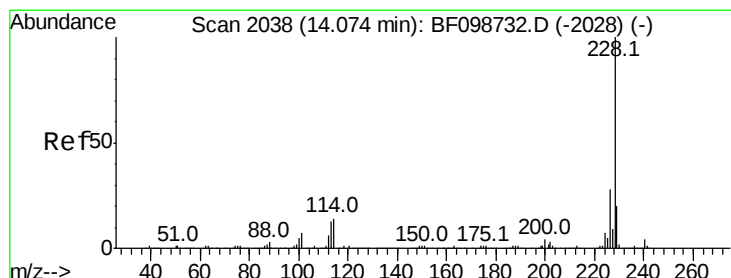
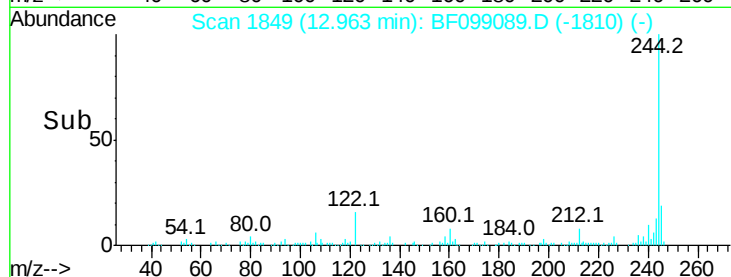
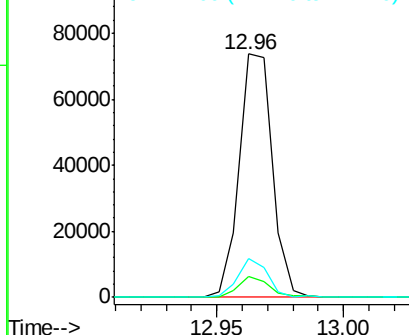
Tot Ion	Ratio	Lower	Upper
244	100		
212	8.3	5.4	8.0#
122	15.9	11.0	16.4

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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 16.963 ng

RT: 14.02 min Scan# 2028

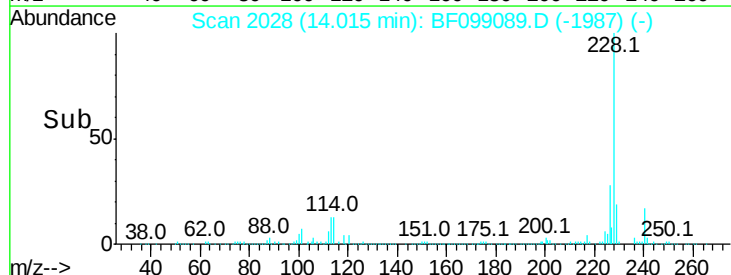
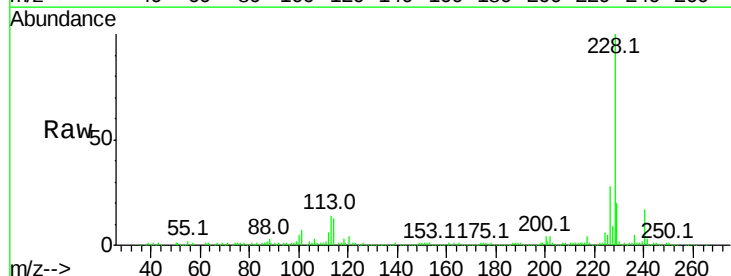
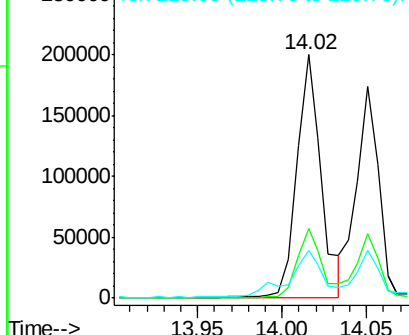
Delta R.T. -0.06 min

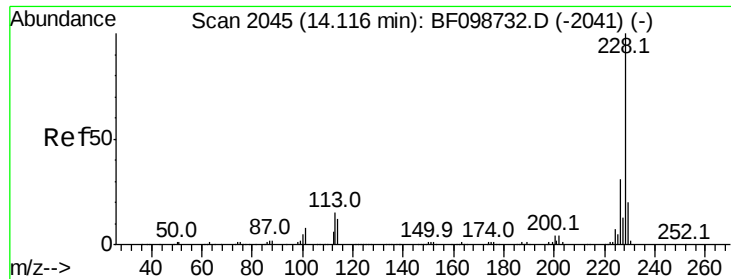
Lab File: BF099089.D

Acq: 5 Oct 2017 1:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	19.6	15.8	23.6

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





#82

Chrysene

Concen: 14.159 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.06 min

Lab File: BF099089.D

Acq: 5 Oct 2017 1:40

Instrument :

BNA_F

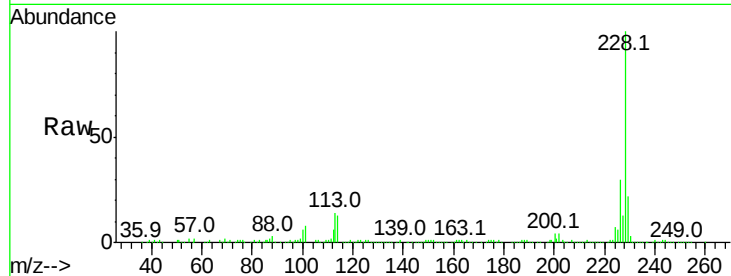
ClientSampleId :

OK-02-100317

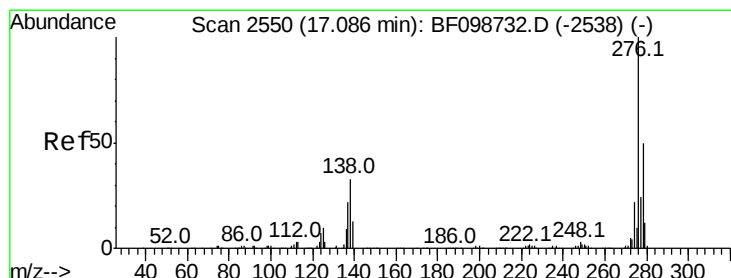
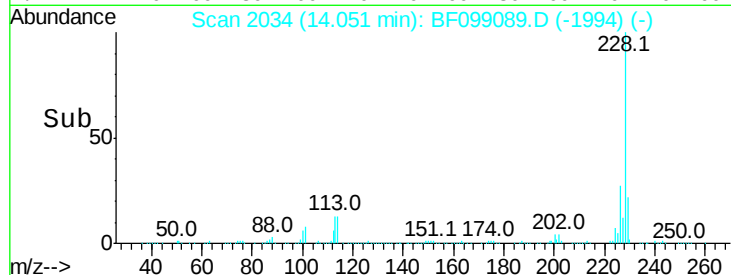
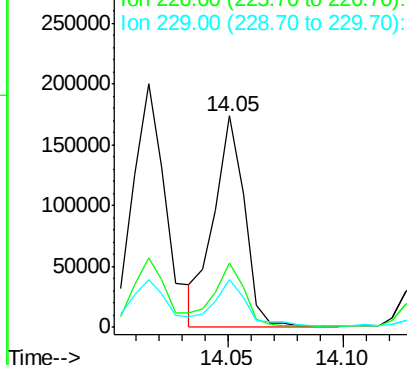
Tot Ion:	228	Resp:	159664
Ion Ratio	Lower	Upper	
228	100		
226	30.2	25.0	37.6
229	22.4	16.2	24.4

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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: 11.784 ng

RT: 16.97 min Scan# 2531

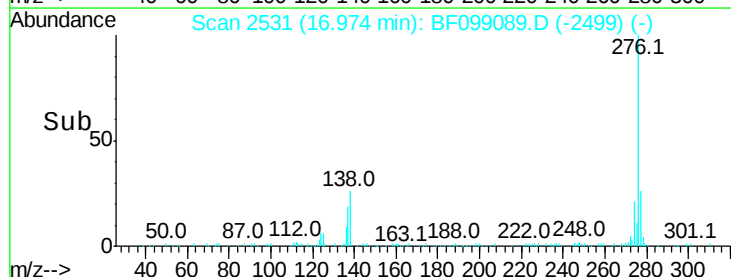
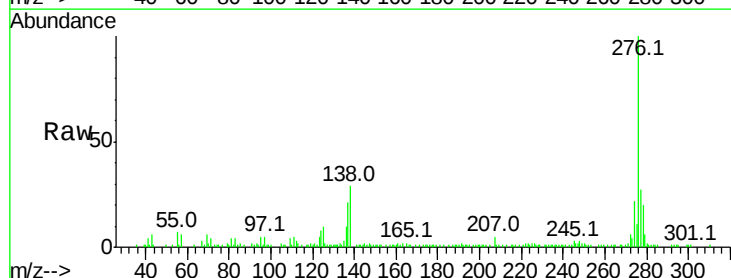
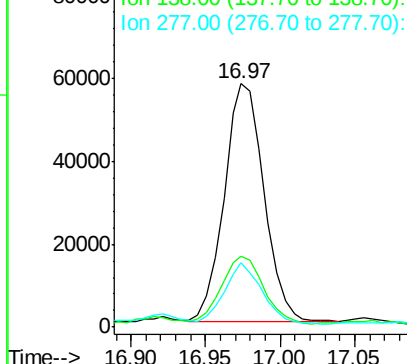
Delta R.T. -0.11 min

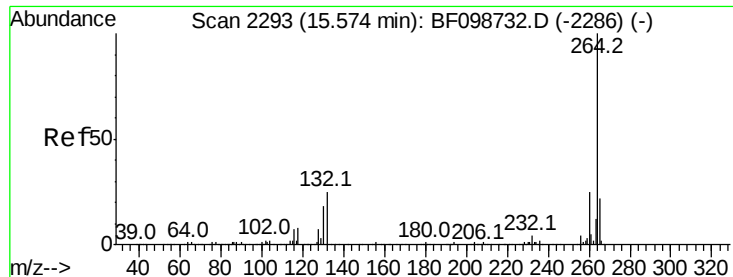
Lab File: BF099089.D

Acq: 5 Oct 2017 1:40

Tgt Ion:	276	Resp:	106304
Ion Ratio	Lower	Upper	
276	100		
138	29.9	25.0	37.6
277	25.0	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





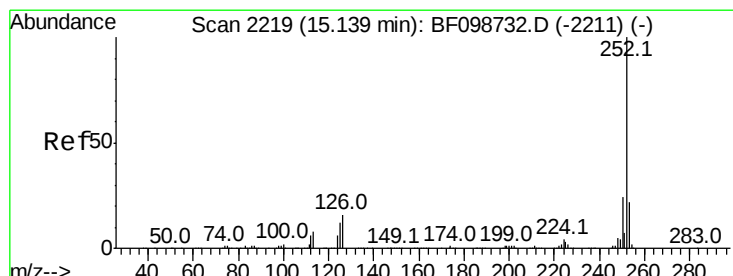
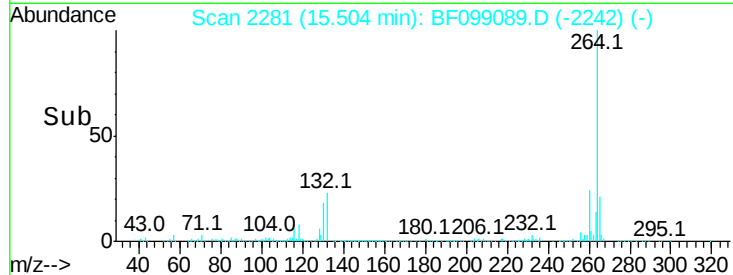
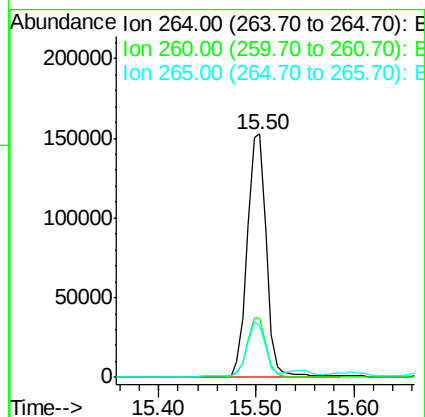
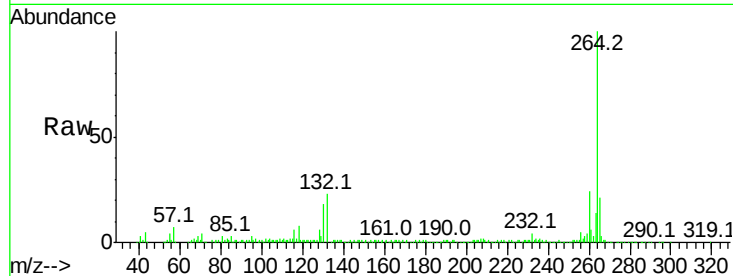
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2281
Delta R.T. -0.07 min
Lab File: BF099089.D
Acq: 5 Oct 2017 1:40

Instrument :
BNA_F
ClientSampleId :
OK-02-100317

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.2	28.8
265	21.2	17.5	26.3

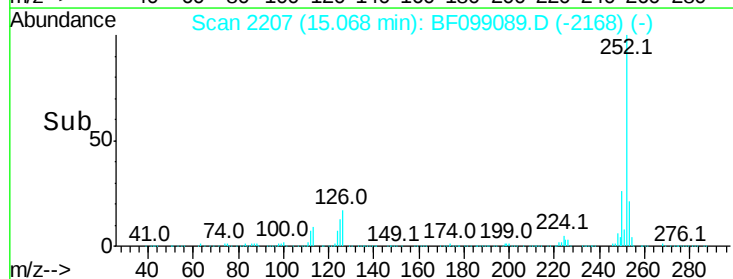
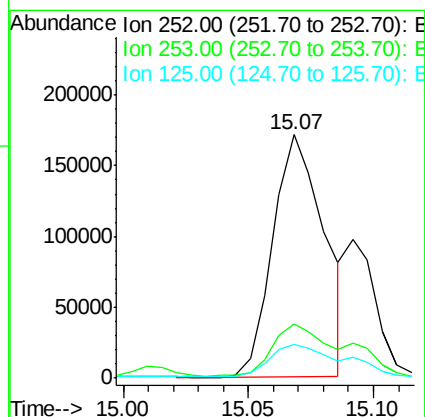
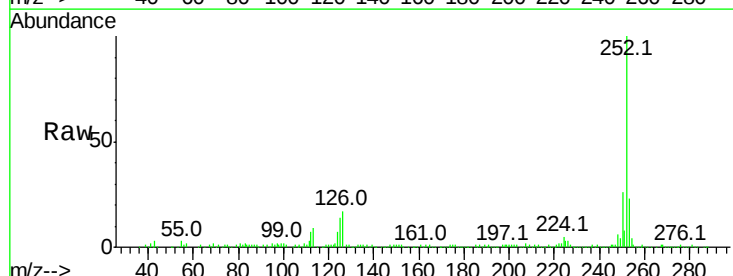
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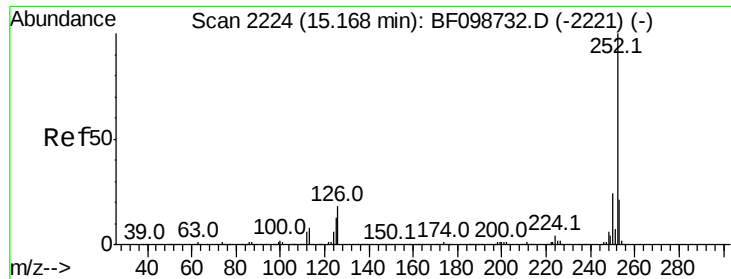
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#87
Benzo(b)fluoranthene
Concen: 19.158 ng m
RT: 15.07 min Scan# 2207
Delta R.T. -0.07 min
Lab File: BF099089.D
Acq: 5 Oct 2017 1:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.0	25.6
125	13.7	9.0	13.6#





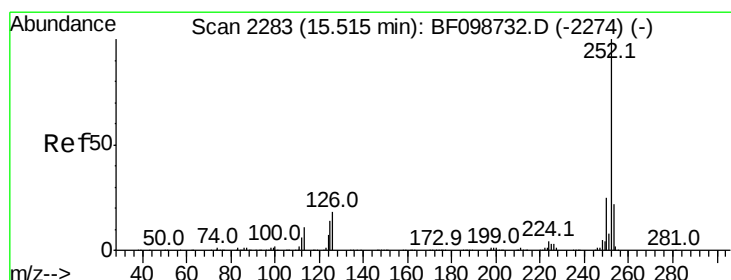
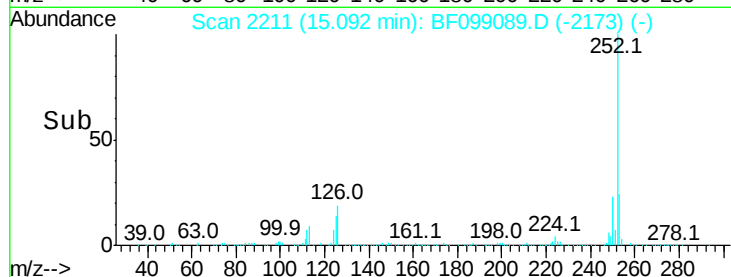
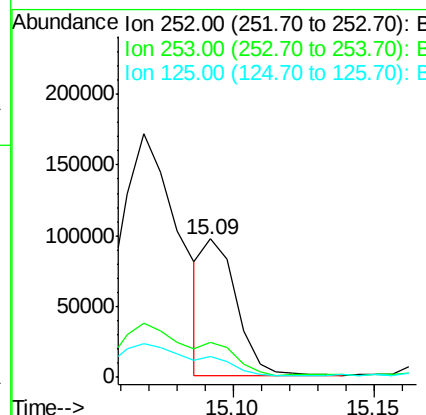
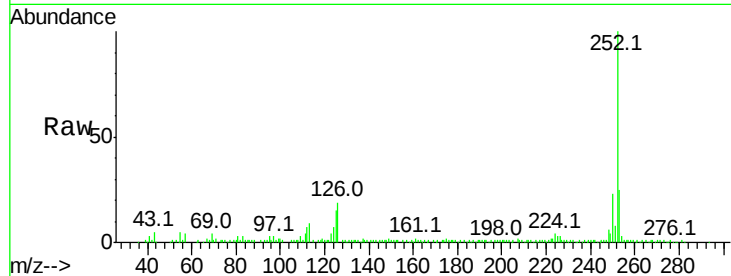
#88
Benzo(k)fluoranthene
Concen: 6.262 ng m
RT: 15.09 min Scan# 2211
Delta R.T. -0.08 min
Lab File: BF099089.D
Acq: 5 Oct 2017 1:40

Instrument :
BNA_F
ClientSampleId :
OK-02-100317

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.9	17.9	26.9
125	14.7	10.2	15.2

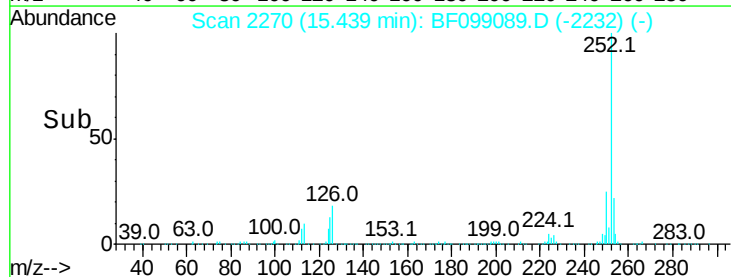
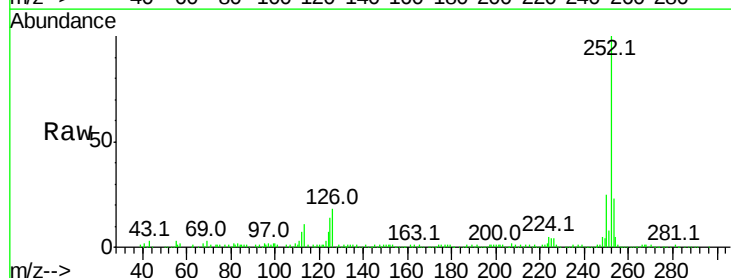
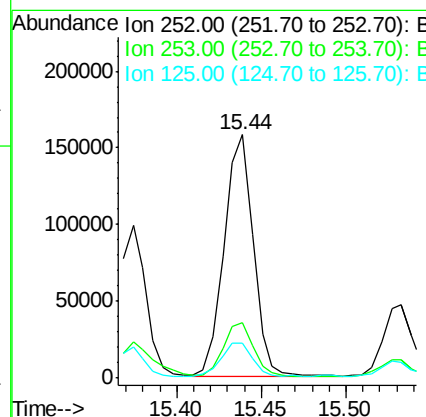
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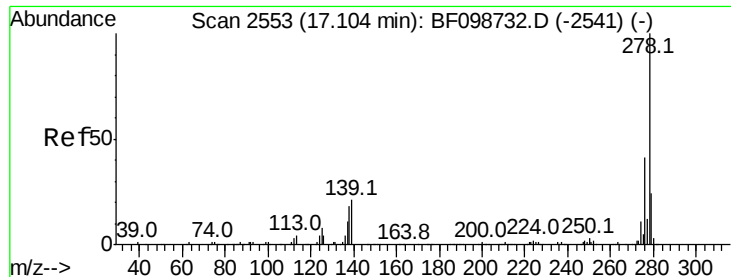
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#89
Benzo(a)pyrene
Concen: 16.211 ng
RT: 15.44 min Scan# 2270
Delta R.T. -0.08 min
Lab File: BF099089.D
Acq: 5 Oct 2017 1:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.1	25.7
125	14.1	9.8	14.6





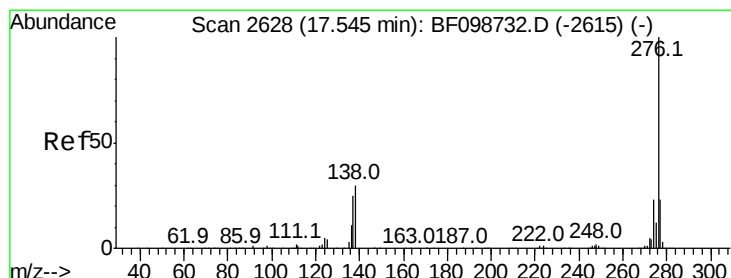
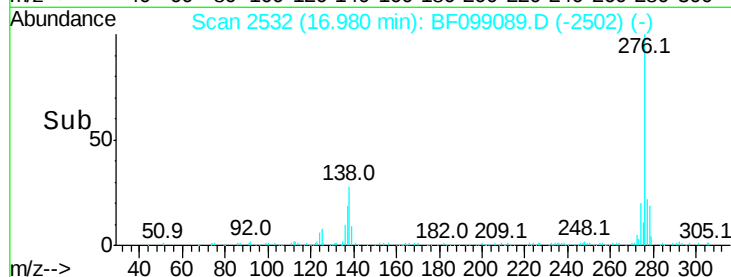
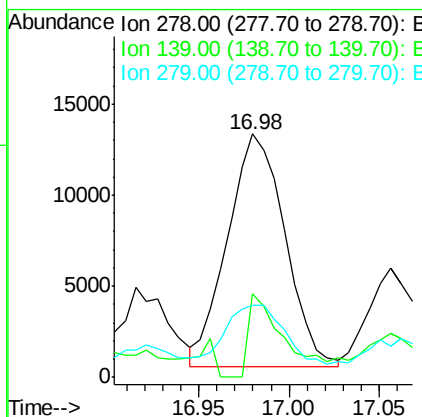
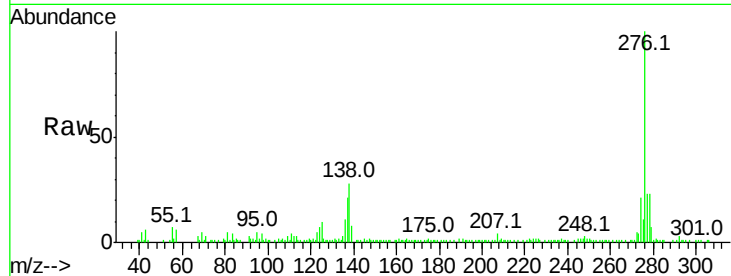
#90
Dibenzo(a,h)anthracene
Concen: 3.022 ng m
RT: 16.98 min Scan# 2532
Delta R.T. -0.12 min
Lab File: BF099089.D
Acq: 5 Oct 2017 1:40

Instrument :
BNA_F
ClientSampleId :
OK-02-100317

Tot Ion	Ratio	Lower	Upper
278	100		
139	34.1	15.9	23.9#
279	29.5	19.0	28.4#

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#91
Benzo(g,h,i)perylene
Concen: 10.908 ng
RT: 17.43 min Scan# 2608
Delta R.T. -0.12 min
Lab File: BF099089.D
Acq: 5 Oct 2017 1:40

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.9	17.9	26.9
138	31.9	21.8	32.8

