

Data Path : Z:\HPCHEM1\BNA F\DATA\BF053116\
 Data File : BF087617.D
 Acq On : 1 Jun 2016 11:43
 Operator : UM/SJ
 Sample : H3290-01RE
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GM-SP-(0-4)RE

Manual Integrations
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Quant Time: Jun 01 14:33:40 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 25 16:26:52 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.44	152	129185	20.00	ng	-0.08
21) Naphthalene-d8	9.47	136	529022	20.00	ng	-0.08
38) Acenaphthene-d10	12.30	164	213106	20.00	ng	-0.09
63) Phenanthrene-d10	14.70	188	321290	20.00	ng	-0.08
75) Chrysene-d12	18.42	240	277469	20.00	ng	-0.06
86) Perylene-d12	20.11	264	216049	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	847517	115.28	ng	-0.06
7) Phenol-d6	7.02	99	1122074	112.95	ng	-0.06
23) Nitrobenzene-d5	8.36	82	774838	73.82	ng	-0.08
41) 2,4,6-Tribromophenol	13.60	330	186435	91.04	ng	-0.08
44) 2-Fluorobiphenyl	11.25	172	1087303	71.93	ng	-0.09
78) Terphenyl-d14	17.06	244	709535	54.37	ng	-0.07
Target Compounds						Qvalue
31) Naphthalene	9.51	128	104239	3.93	ng	99
37) 2-Methylnaphthalene	10.64	142	76241	4.60	ng	97
48) Acenaphthylene	12.07	152	213473	9.82	ng	98
49) Dimethylphthalate	11.94	163	158582	9.29	ng	99
54) Dibenzofuran	12.65	168	42704	2.36	ng	94
70) Phenanthrene	14.74	178	324704	18.25	ng	98
71) Anthracene	14.82	178	216557	12.05	ng	97
72) Carbazole	15.14	167	55501	3.62	ng	95
74) Fluoranthene	16.51	202	903611	50.63	ng	94
77) Pyrene	16.81	202	832126	41.66	ng	97
79) Butylbenzylphthalate	17.73	149	41140	4.64	ng	# 81
80) Benzo(a)anthracene	18.41	228	464834m	29.45	ng	
82) Chrysene	18.46	228	497662m	31.77	ng	
85) Indeno(1,2,3-cd)pyrene	21.35	276	203981	16.24	ng	# 88
87) Benzo(b)fluoranthene	19.70	252	612367m	44.50	ng	
88) Benzo(k)fluoranthene	19.73	252	220587m	18.62	ng	
89) Benzo(a)pyrene	20.06	252	313597	26.35	ng	95
90) Dibenzo(a,h)anthracene	21.35	278	68116m	6.71	ng	
91) Benzo(a,h,i)perylene	21.70	276	175025	17.47	ng	# 94

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

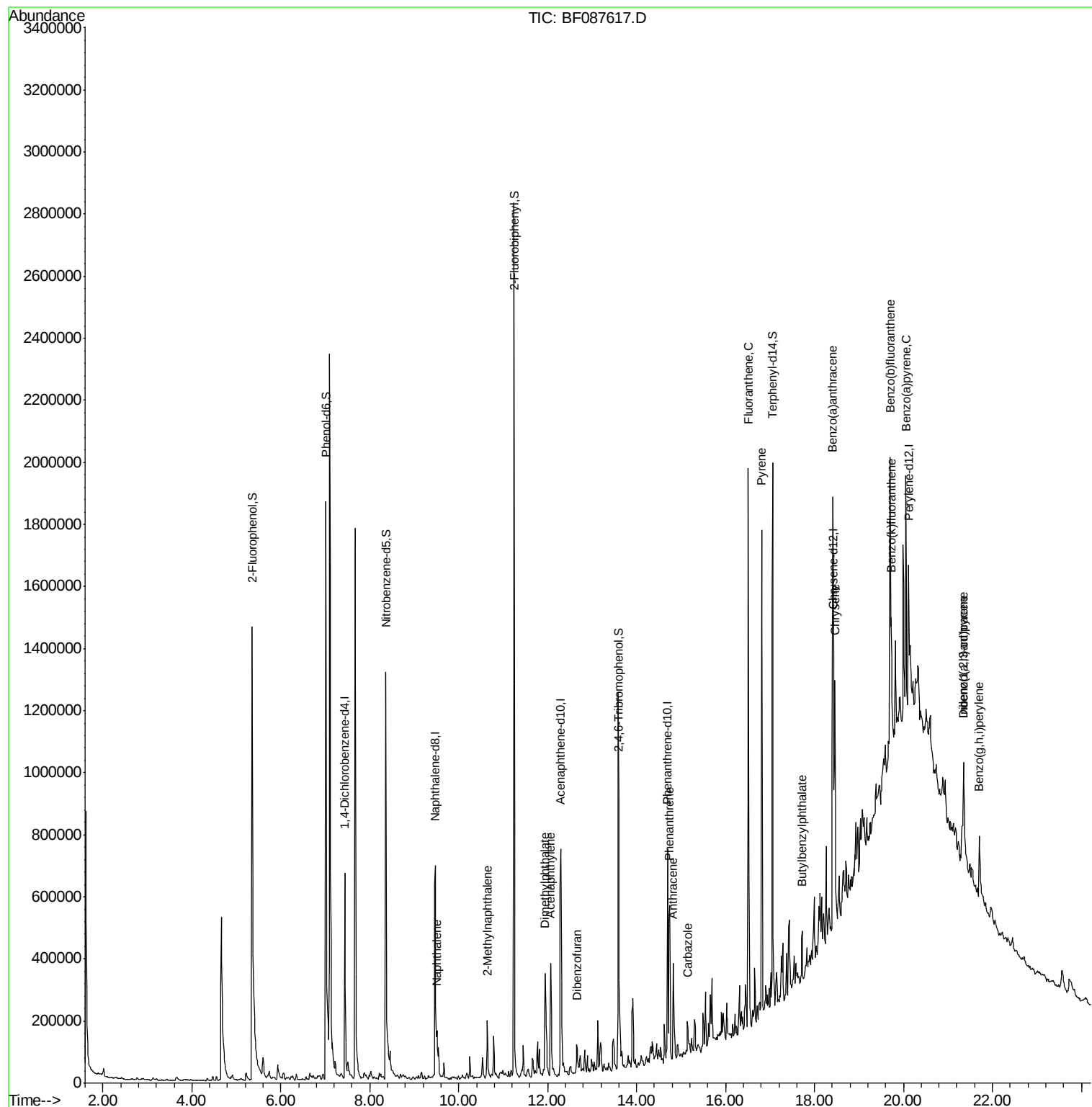
Data Path : Z:\HPCHEM1\BNA F\DATA\BF053116\
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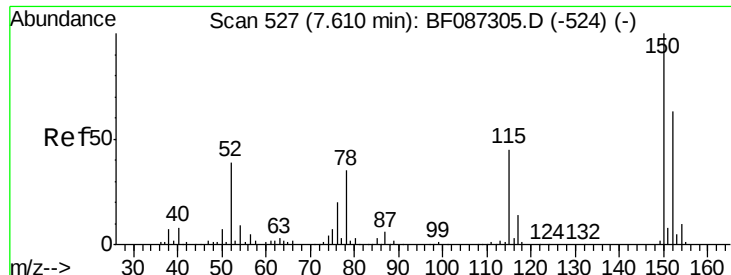
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#1

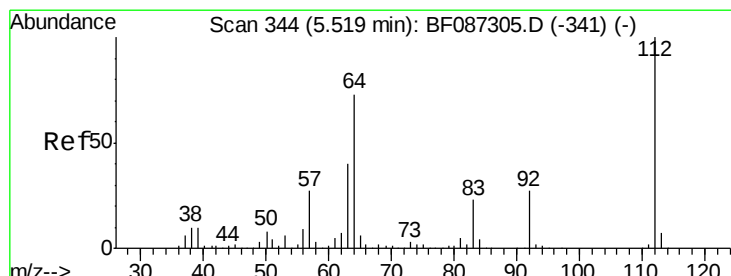
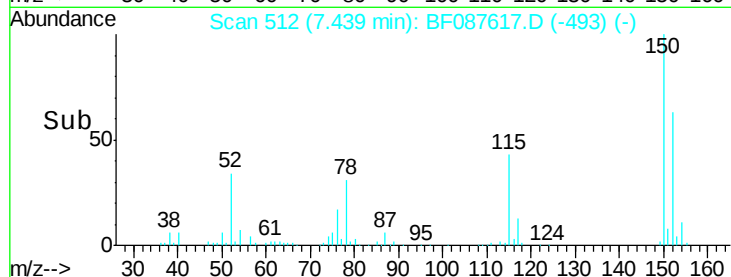
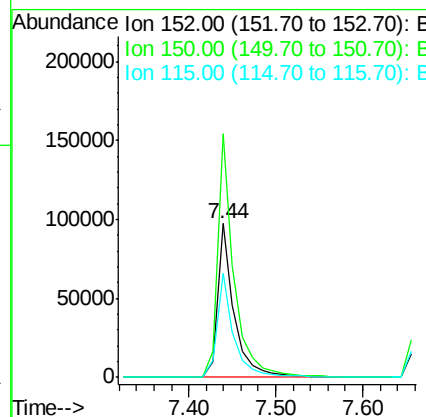
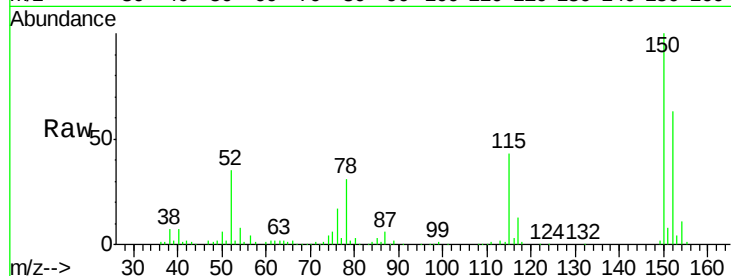
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.44 min Scan# 512
Delta R.T. -0.08 min
Lab File: BF087617.D
Acq: 1 Jun 2016 11:43

Instrument :
BNA_F
ClientSampleId :
GM-SP-(0-4)RE

Tot Ion	Ratio	Resp	Lower	Upper
152	100	129185		
150	158.4	125.8	188.6	
115	67.8	51.5	77.3	

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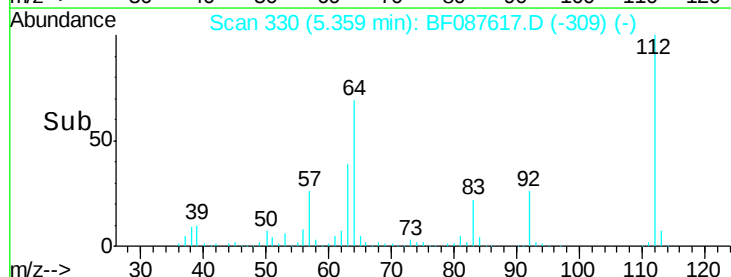
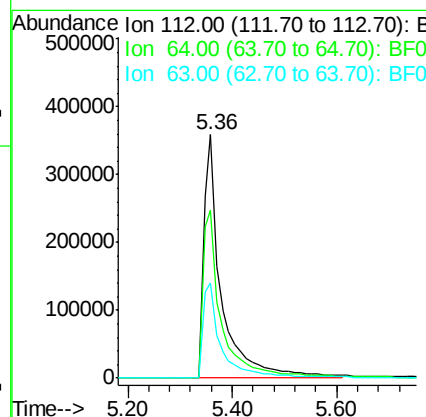
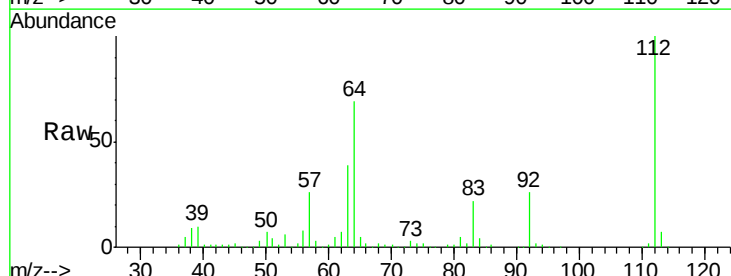
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#5

2-Fluorophenol
Concen: 115.28 ng
RT: 5.36 min Scan# 330
Delta R.T. -0.06 min
Lab File: BF087617.D
Acq: 1 Jun 2016 11:43

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	847517		
64	68.9	52.1	78.1	
63	38.8	25.7	38.5	





#7

Phenol-d6

Concen: 112.95 ng

RT: 7.02 min Scan# 475

Delta R.T. -0.06 min

Lab File: BF087617.D

Acq: 1 Jun 2016 11:43

Instrument :

BNA_F

ClientSampleId :

GM-SP-(0-4)RE

Tot Ion: 99 Resp: 1122074

Ion Ratio Lower Upper

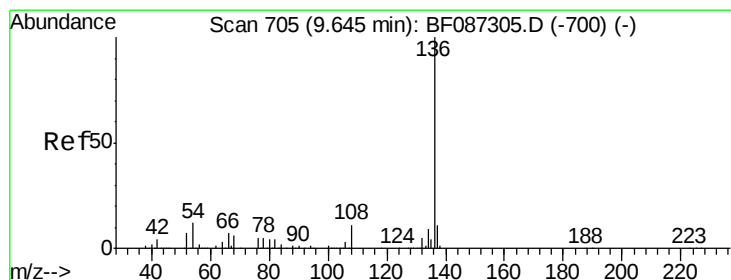
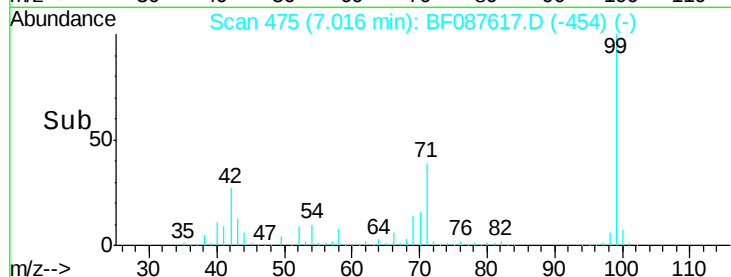
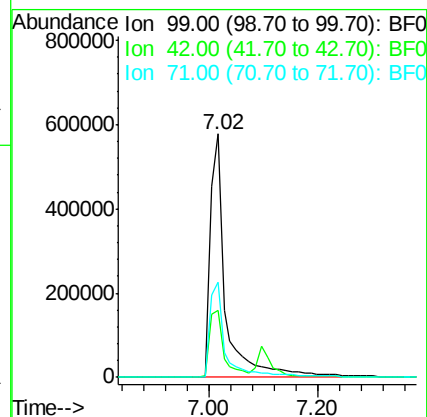
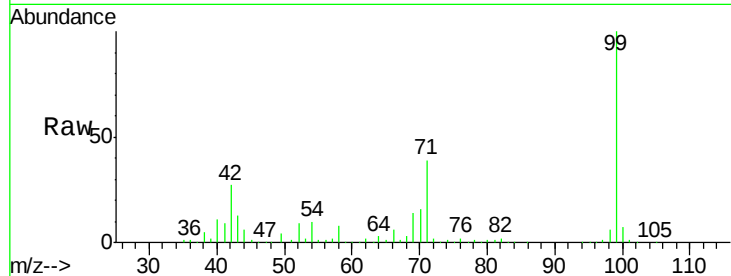
99 100

42 27.4 13.6 20.4#

71 39.1 24.6 36.8#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.47 min Scan# 690

Delta R.T. -0.08 min

Lab File: BF087617.D

Acq: 1 Jun 2016 11:43

Tgt Ion: 136 Resp: 529022

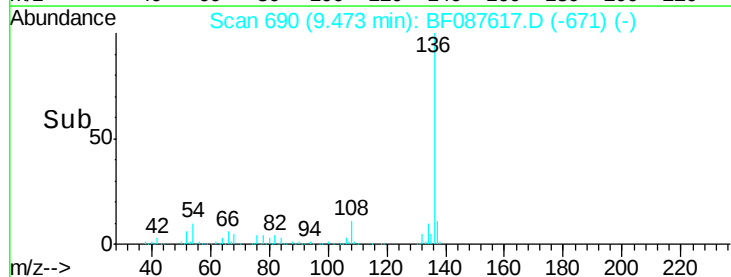
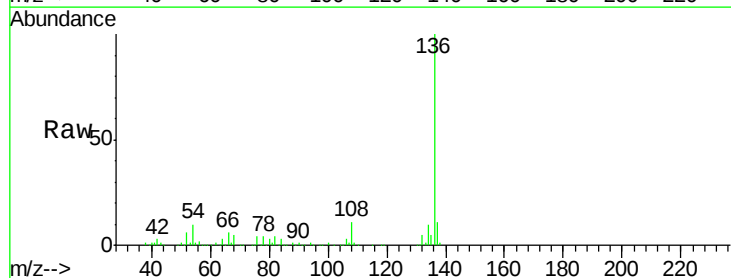
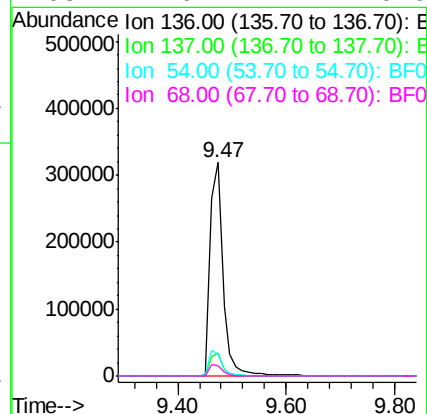
Ion Ratio Lower Upper

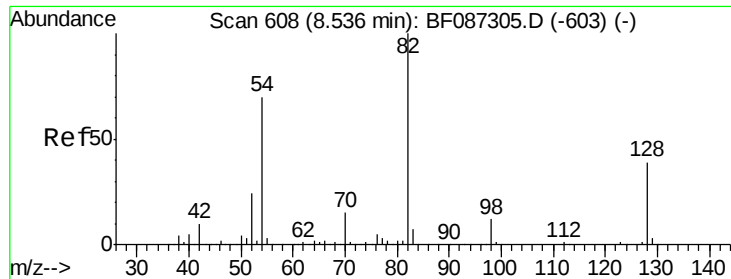
136 100

137 10.8 8.8 13.2

54 10.1 5.0 7.4#

68 4.6 4.4 6.6





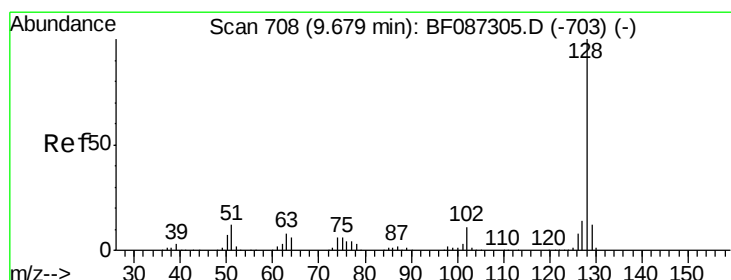
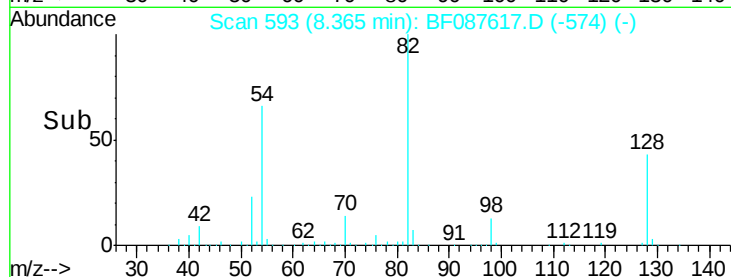
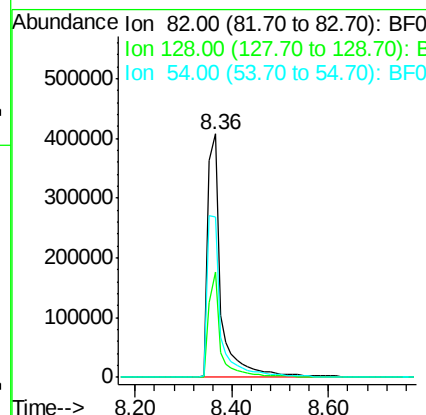
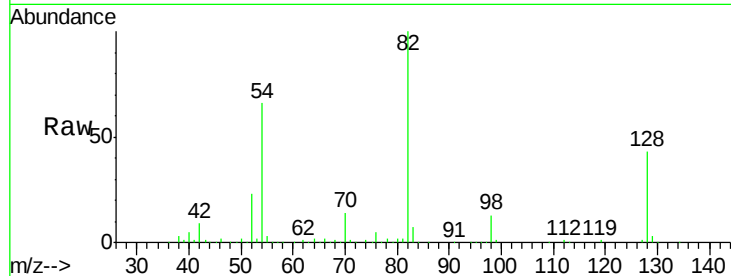
#23
Nitrobenzene-d5
Concen: 73.82 ng
RT: 8.36 min Scan# 593
Delta R.T. -0.08 min
Lab File: BF087617.D
Acq: 1 Jun 2016 11:43

Instrument :
BNA_F
ClientSampleId :
GM-SP-(0-4)RE

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.0	40.6	61.0
54	65.9	38.1	57.1

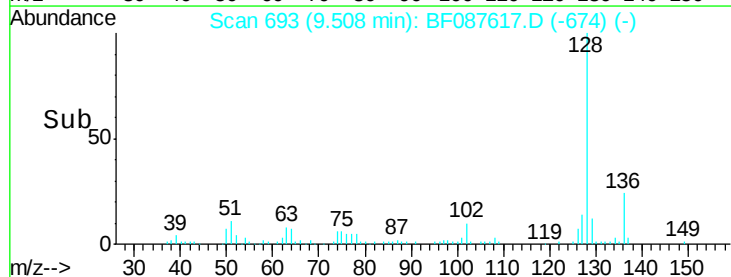
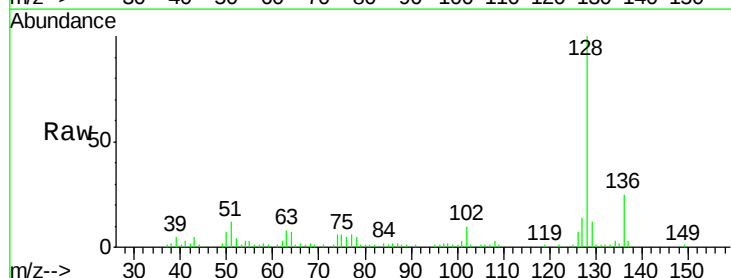
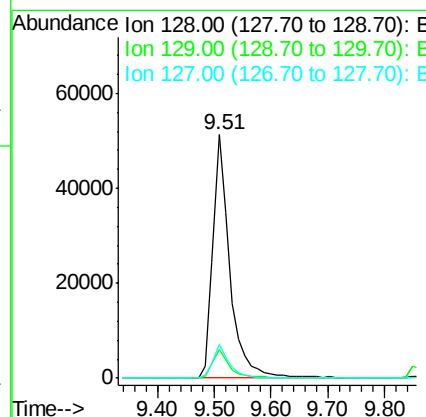
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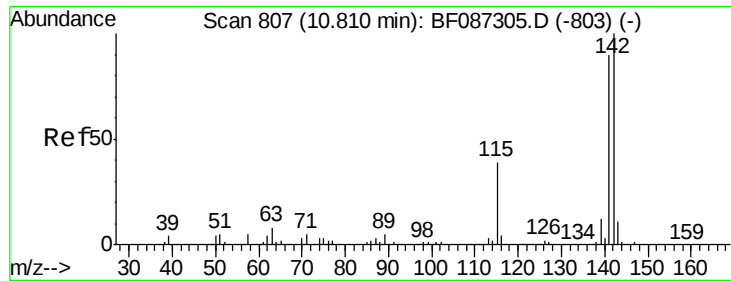
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#31
Naphthalene
Concen: 3.93 ng
RT: 9.51 min Scan# 693
Delta R.T. -0.08 min
Lab File: BF087617.D
Acq: 1 Jun 2016 11:43

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.6	8.6	13.0
127	13.8	10.8	16.2





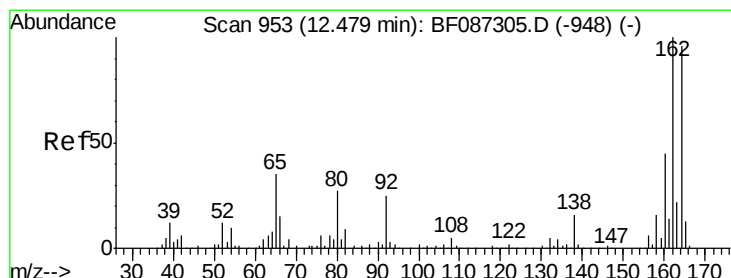
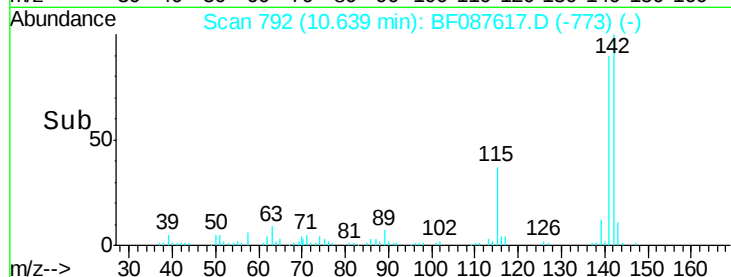
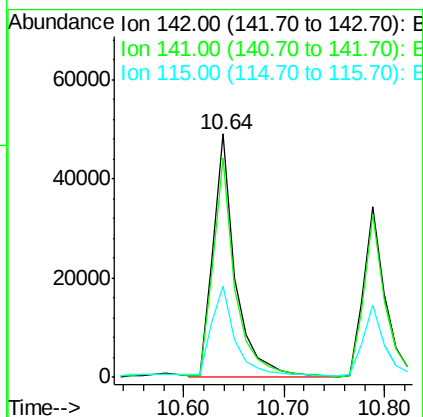
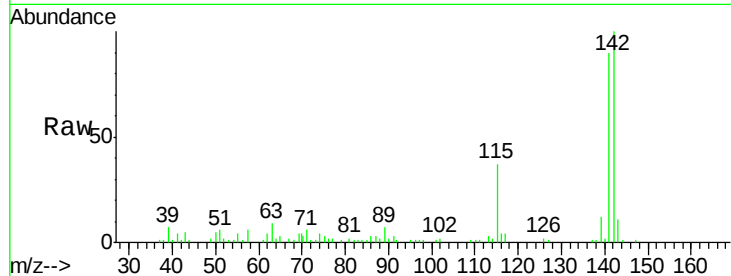
#37
2-Methylnaphthalene
Concen: 4.60 ng
RT: 10.64 min Scan# 792
Delta R.T. -0.08 min
Lab File: BF087617.D
Acq: 1 Jun 2016 11:43

Instrument :
BNA_F
ClientSampleId :
GM-SP-(0-4)RE

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.0	71.0	106.6
115	37.4	26.6	39.8

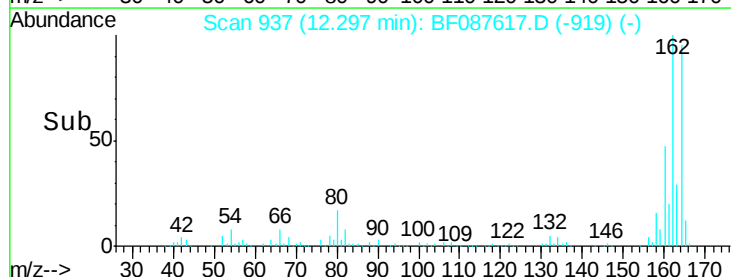
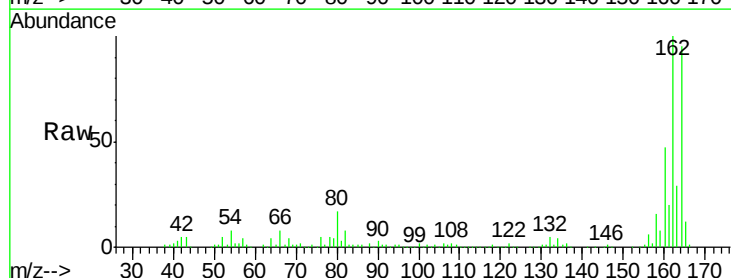
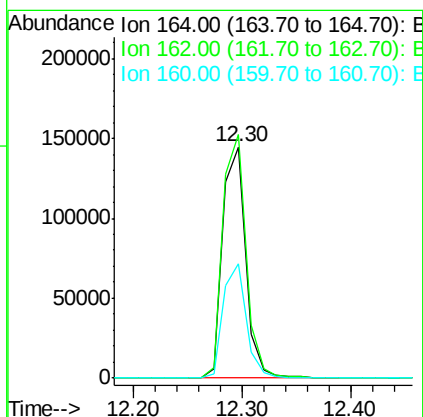
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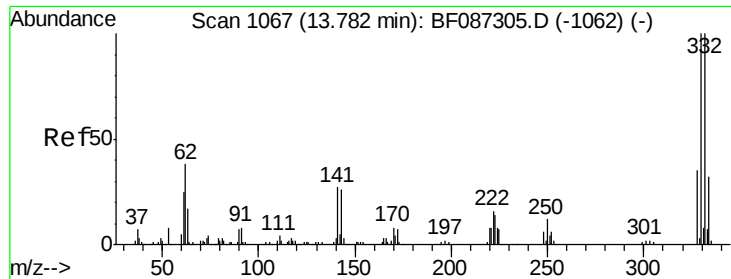
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.30 min Scan# 937
Delta R.T. -0.09 min
Lab File: BF087617.D
Acq: 1 Jun 2016 11:43

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.4	82.8	124.2
160	49.3	36.9	55.3





#41

2,4,6-Tribromophenol

Concen: 91.04 ng

RT: 13.60 min Scan# 1051

Delta R.T. -0.08 min

Lab File: BF087617.D

Acq: 1 Jun 2016 11:43

Instrument :

BNA_F

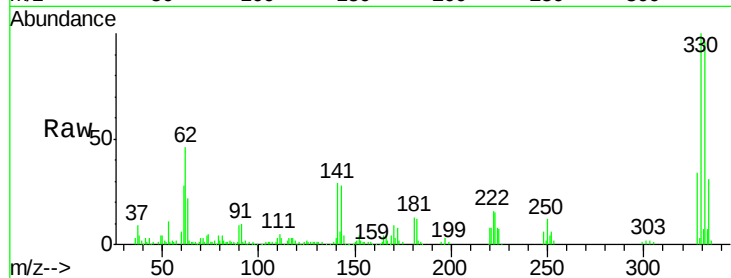
ClientSampleId :

GM-SP-(0-4)RE

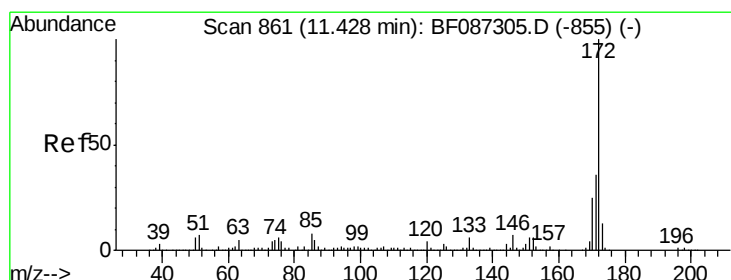
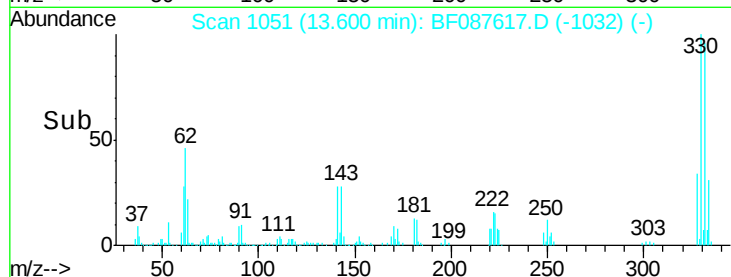
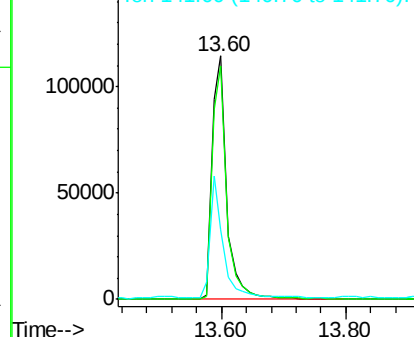
Tot Ion:	330	Resp:	186435
Ion Ratio	Lower	Upper	
330	100		
332	96.1	79.0	118.4
141	45.1	31.2	46.8

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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: 71.93 ng

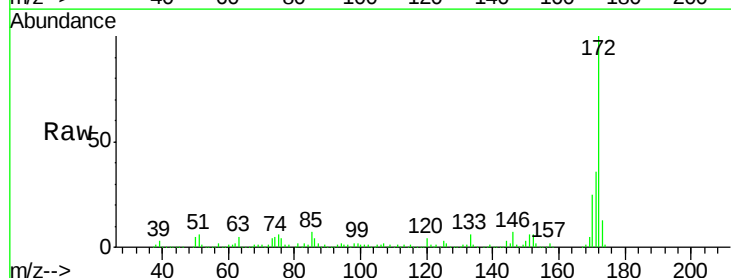
RT: 11.25 min Scan# 845

Delta R.T. -0.09 min

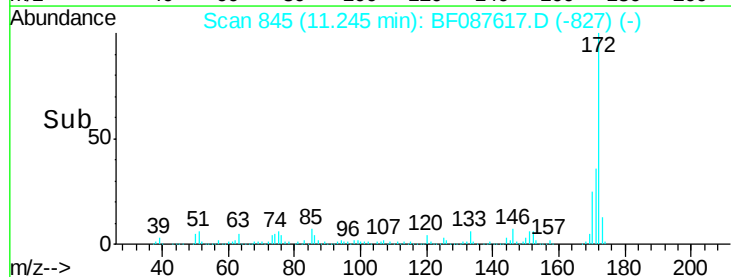
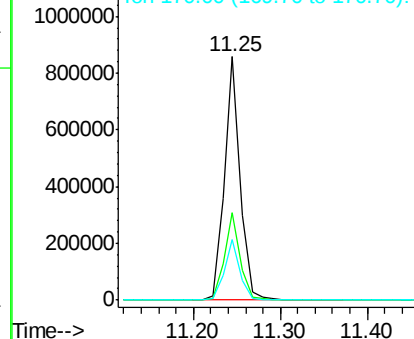
Lab File: BF087617.D

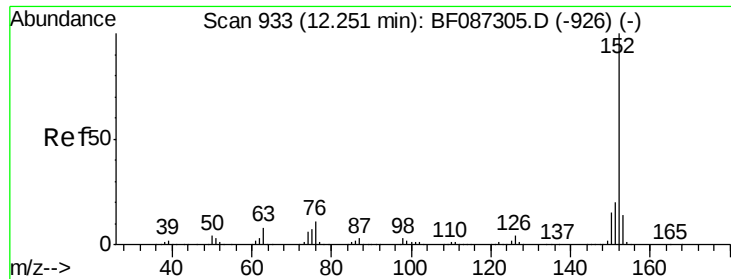
Acq: 1 Jun 2016 11:43

Tgt Ion:	172	Resp:	1087303
Ion Ratio	Lower	Upper	
172	100		
171	36.0	29.0	43.6
170	24.9	19.8	29.8



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





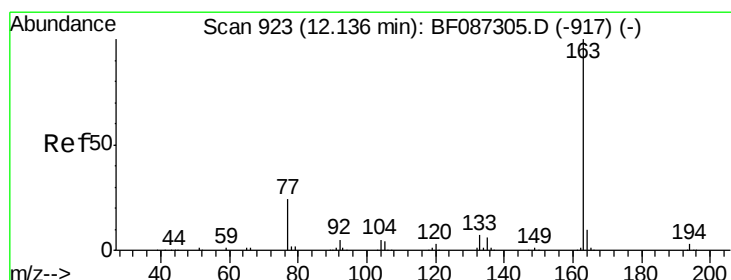
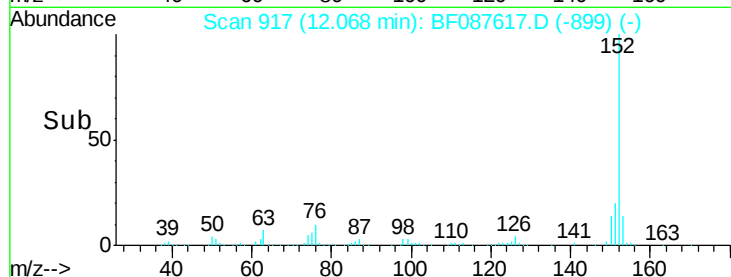
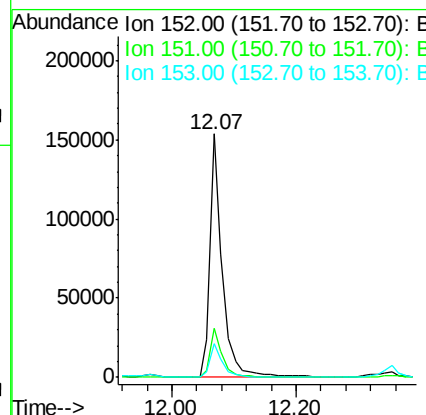
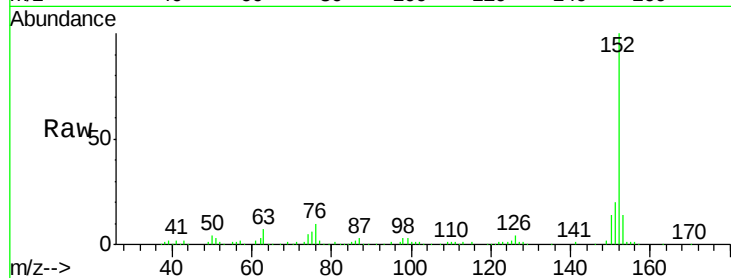
#48
Acenaphthylene
Concen: 9.82 ng
RT: 12.07 min Scan# 917
Delta R.T. -0.09 min
Lab File: BF087617.D
Acq: 1 Jun 2016 11:43

Instrument :
BNA_F
ClientSampleId :
GM-SP-(0-4)RE

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.8	25.2
153	13.7	10.9	16.3

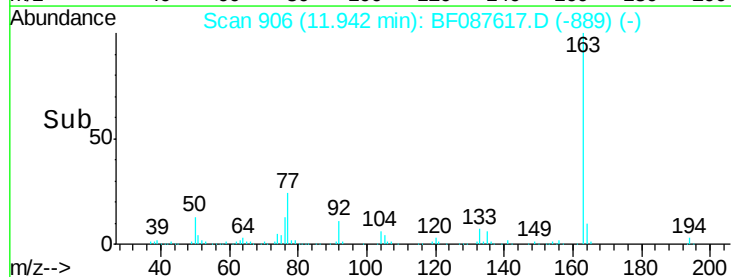
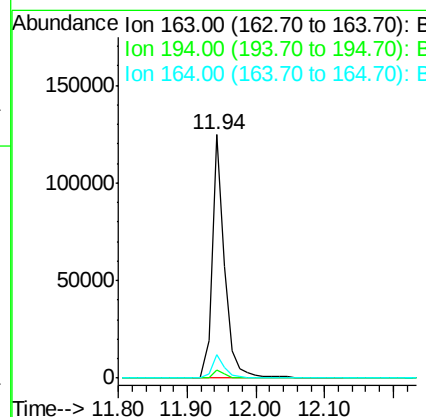
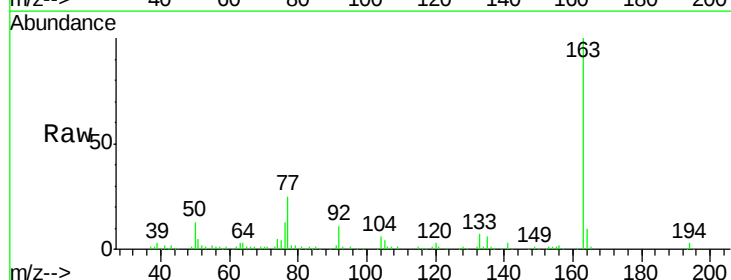
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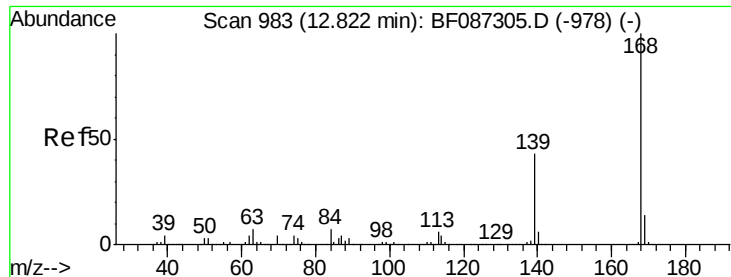
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#49
Dimethylphthalate
Concen: 9.29 ng
RT: 11.94 min Scan# 906
Delta R.T. -0.10 min
Lab File: BF087617.D
Acq: 1 Jun 2016 11:43

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.3	2.6	4.0
164	9.8	8.2	12.4





#54

Dibenzenofuran

Concen: 2.36 ng

RT: 12.65 min Scan# 968

Delta R.T. -0.07 min

Lab File: BF087617.D

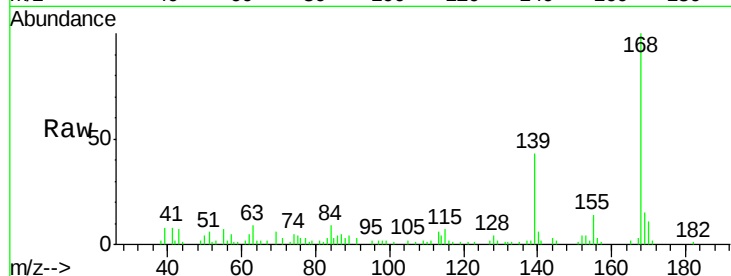
Acq: 1 Jun 2016 11:43

Instrument :

BNA_F

ClientSampleId :

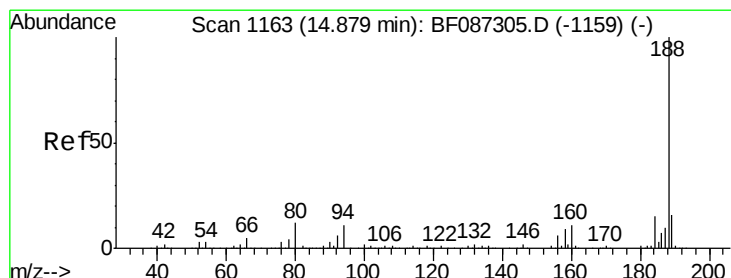
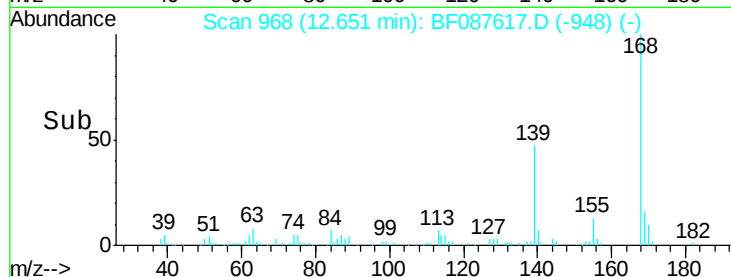
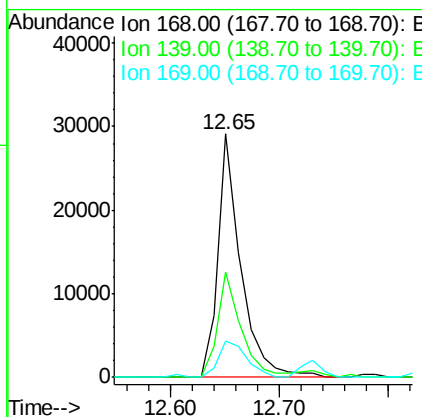
GM-SP-(0-4)RE



Tot Ion:168	Resp:	42704
Ion Ratio	Lower	Upper
168	100	
139	43.2	31.4 47.0
169	14.9	10.7 16.1

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#63

Phenanthrene-d10

Concen: 20.00 ng

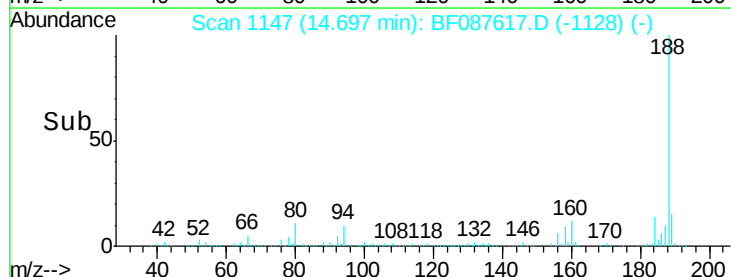
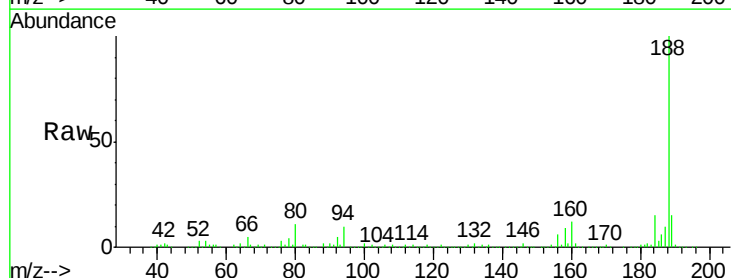
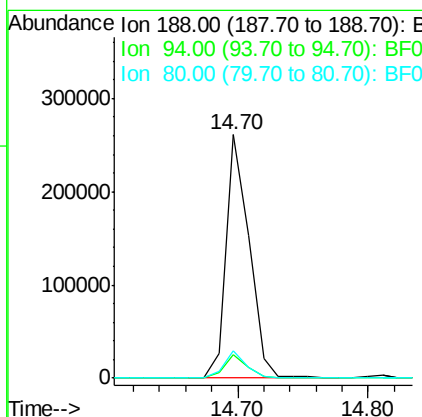
RT: 14.70 min Scan# 1147

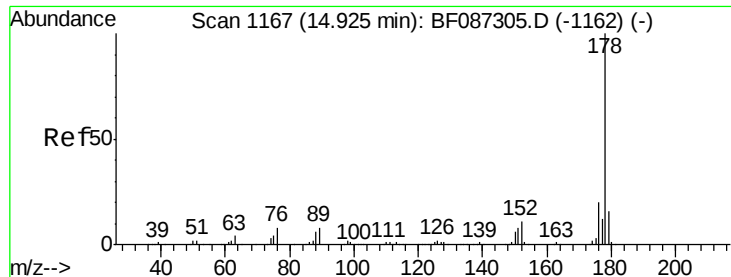
Delta R.T. -0.08 min

Lab File: BF087617.D

Acq: 1 Jun 2016 11:43

Tgt Ion:188	Resp:	321290
Ion Ratio	Lower	Upper
188	100	
94	9.7	6.8 10.2
80	11.2	7.1 10.7#





#70

Phenanthrene

Concen: 18.25 ng

RT: 14.74 min Scan# 1151

Delta R.T. -0.08 min

Lab File: BF087617.D

Acq: 1 Jun 2016 11:43

Instrument :

BNA_F

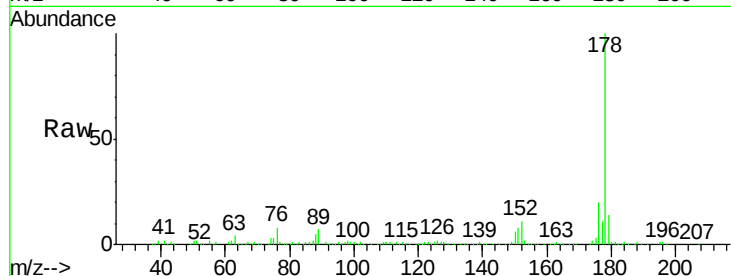
ClientSampleId :

GM-SP-(0-4)RE

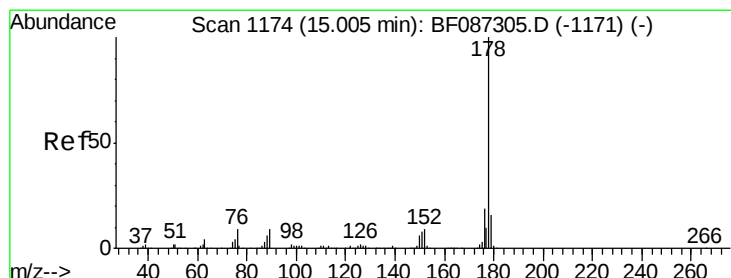
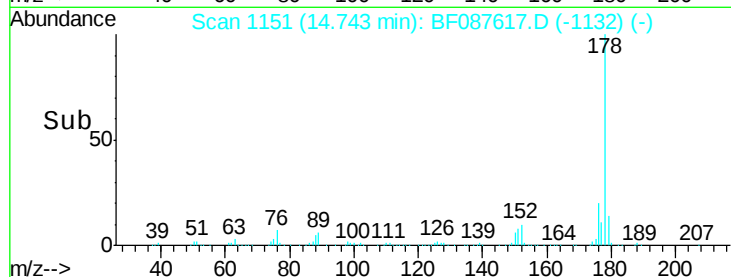
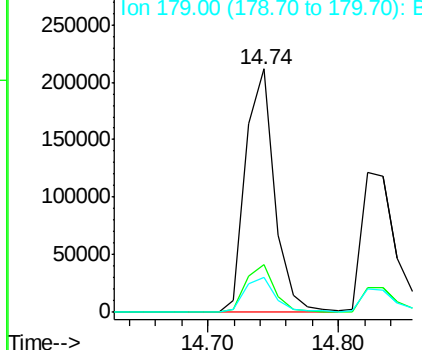
Tot Ion:	178	Resp:	324704
Ion Ratio	Lower	Upper	
178	100		
176	19.7	16.0	24.0
179	14.3	12.6	18.8

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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



#71

Anthracene

Concen: 12.05 ng

RT: 14.82 min Scan# 1158

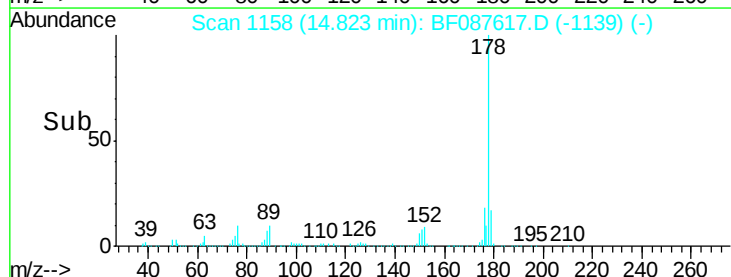
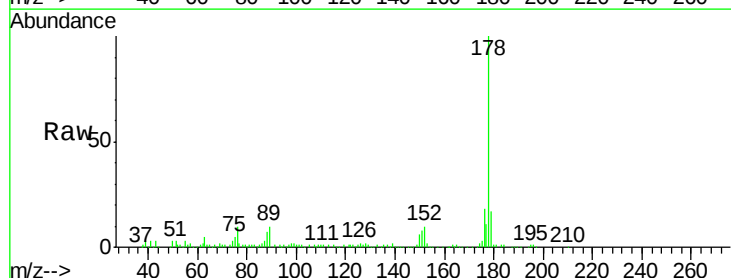
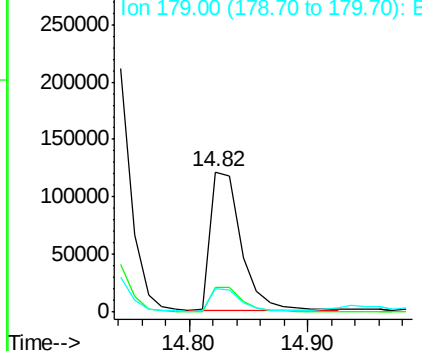
Delta R.T. -0.08 min

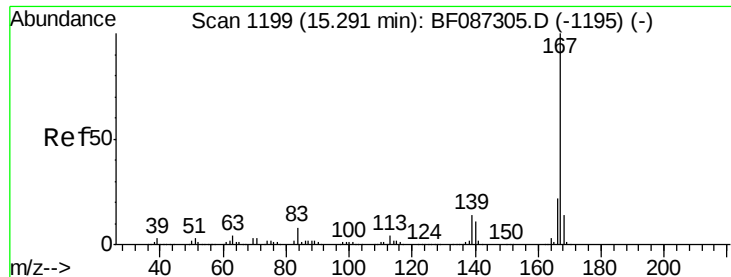
Lab File: BF087617.D

Acq: 1 Jun 2016 11:43

Tgt Ion:	178	Resp:	216557
Ion Ratio	Lower	Upper	
178	100		
176	17.9	15.6	23.4
179	16.9	12.7	19.1

Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 3.62 ng

RT: 15.14 min Scan# 1186

Delta R.T. -0.05 min

Lab File: BF087617.D

Acq: 1 Jun 2016 11:43

Instrument :

BNA_F

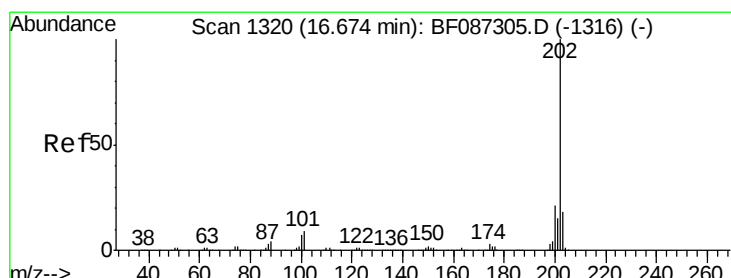
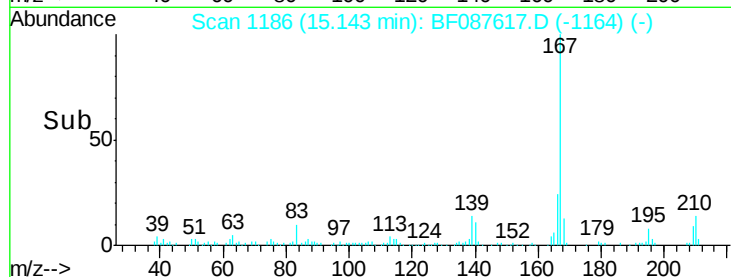
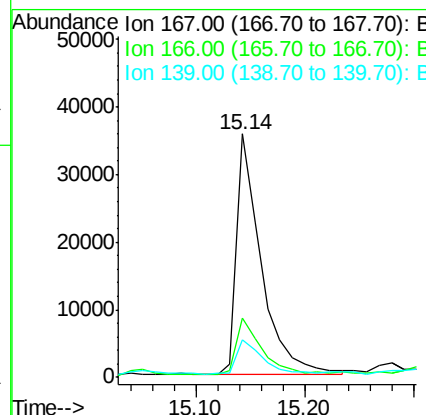
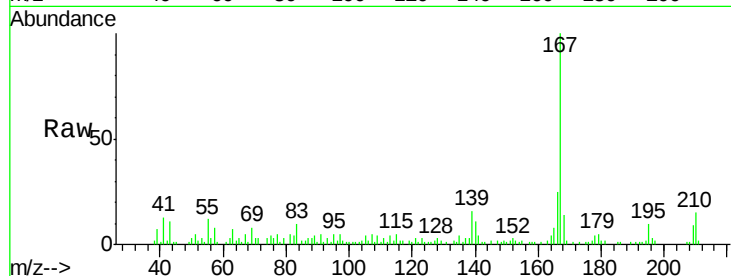
ClientSampleId :

GM-SP-(0-4)RE

Tot Ion:	167	Resp:	55501
Ion Ratio	Lower	Upper	
167	100		
166	24.5	17.7	26.5
139	15.6	10.8	16.2

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#74

Fluoranthene

Concen: 50.63 ng

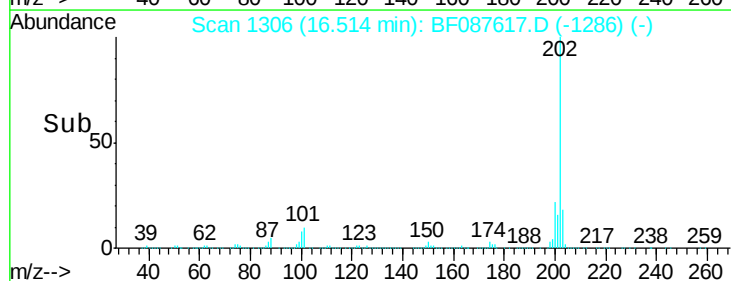
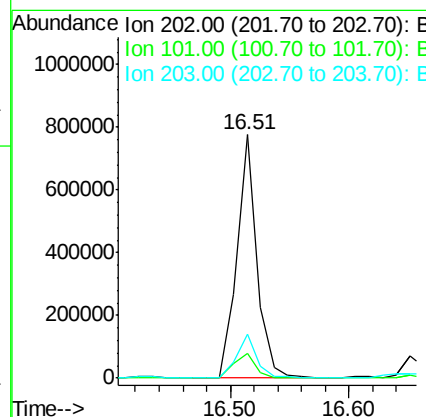
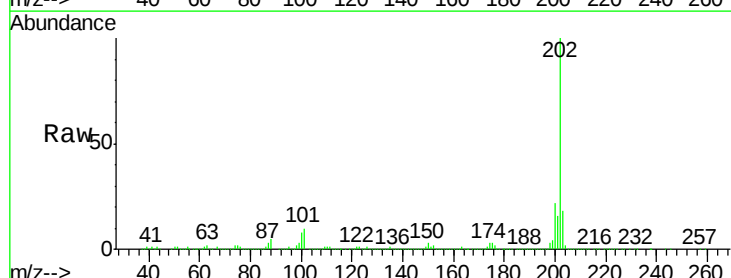
RT: 16.51 min Scan# 1306

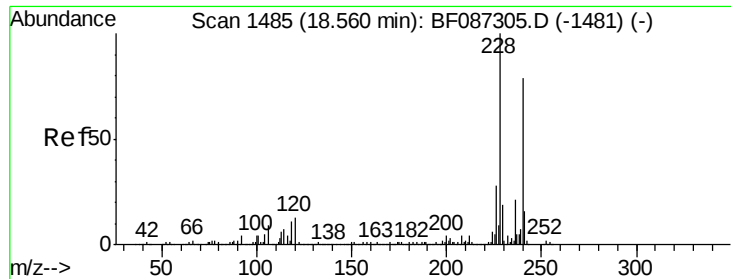
Delta R.T. -0.07 min

Lab File: BF087617.D

Acq: 1 Jun 2016 11:43

Tgt Ion:	202	Resp:	903611
Ion Ratio	Lower	Upper	
202	100		
101	10.4	0.0	35.4
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.42 min Scan# 1473

Delta R.T. -0.06 min

Lab File: BF087617.D

Acq: 1 Jun 2016 11:43

Instrument :

BNA_F

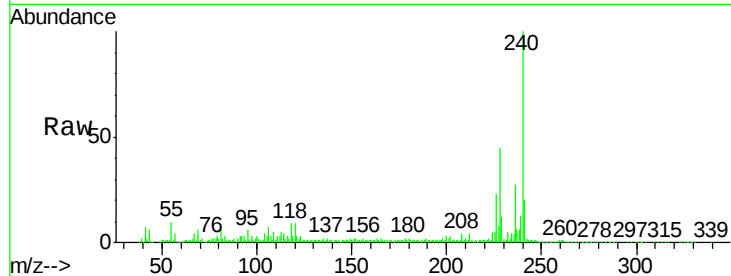
ClientSampleId :

GM-SP-(0-4)RE

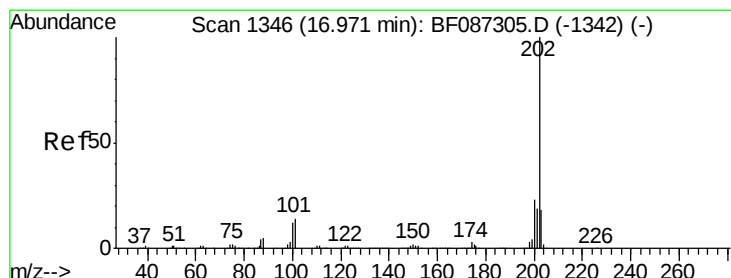
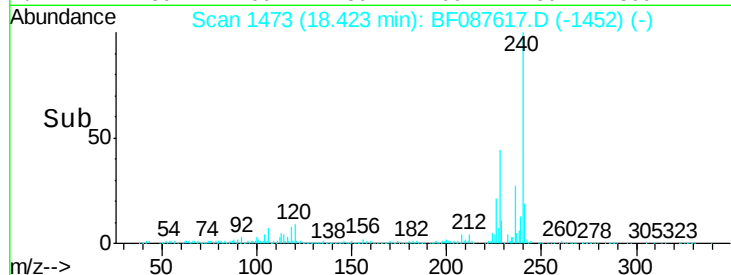
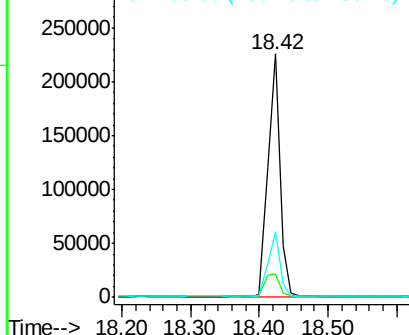
Tot Ion:	240	Resp:	277469
Ion Ratio	Lower	Upper	
240	100		
120	9.4	11.2	16.8#
236	27.1	21.2	31.8

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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: 41.66 ng

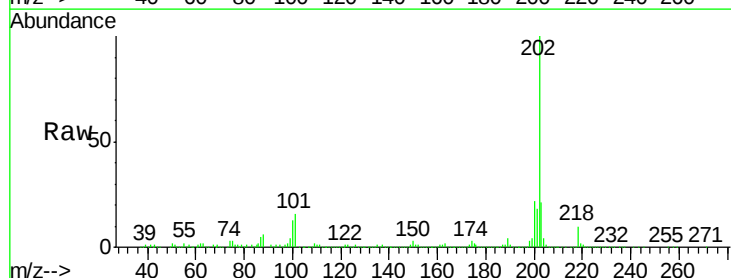
RT: 16.81 min Scan# 1332

Delta R.T. -0.07 min

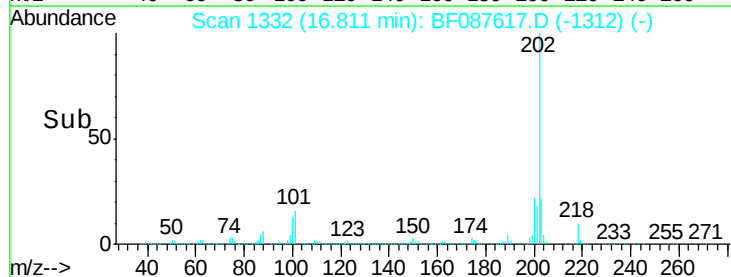
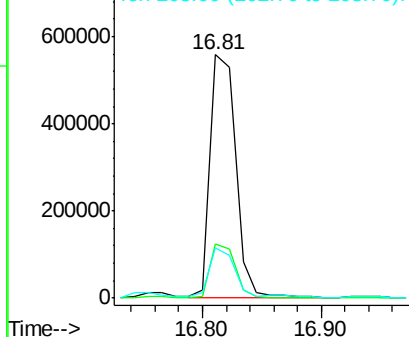
Lab File: BF087617.D

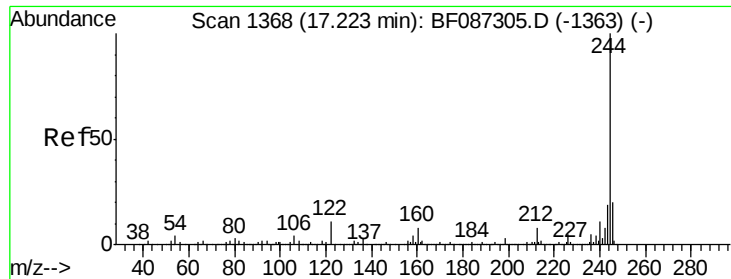
Acq: 1 Jun 2016 11:43

Tgt Ion:	202	Resp:	832126
Ion Ratio	Lower	Upper	
202	100		
200	22.3	17.7	26.5
203	20.7	14.2	21.4



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: 54.37 ng

RT: 17.06 min Scan# 1354

Delta R.T. -0.07 min

Lab File: BF087617.D

Acq: 1 Jun 2016 11:43

Instrument :

BNA_F

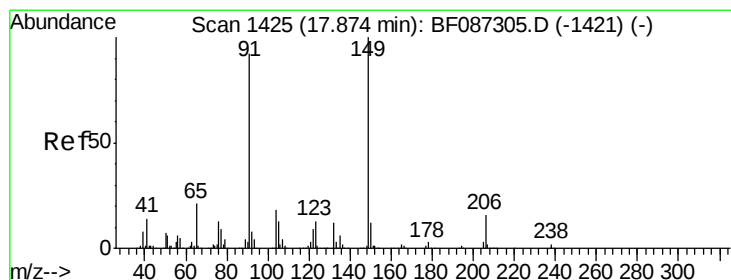
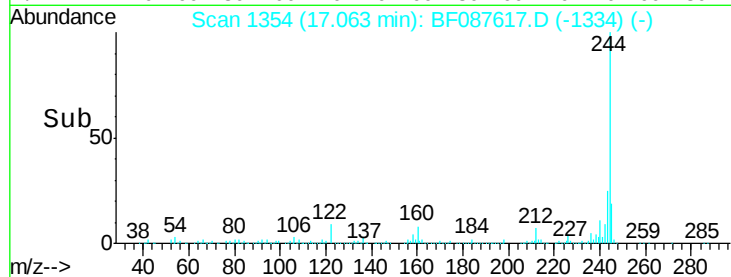
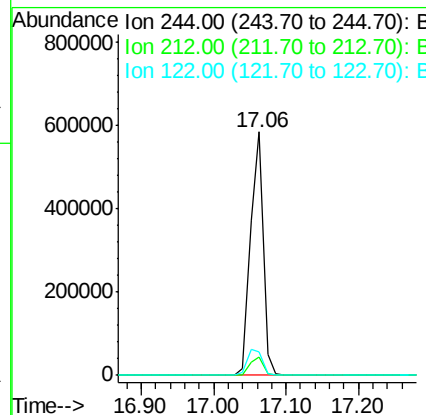
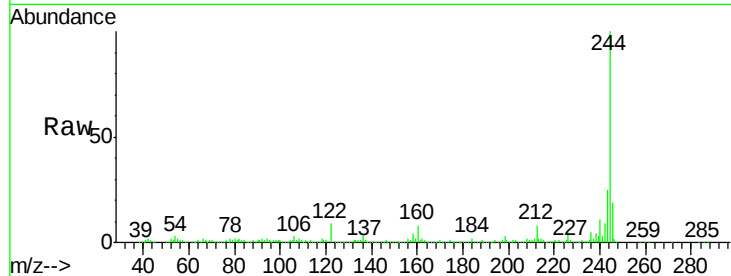
ClientSampleId :

GM-SP-(0-4)RE

Tot Ion:	244	Resp:	709535
Ion Ratio		Lower	Upper
244	100		
212	7.5	6.2	9.2
122	9.4	12.0	18.0#

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#79

Butylbenzylphthalate

Concen: 4.64 ng

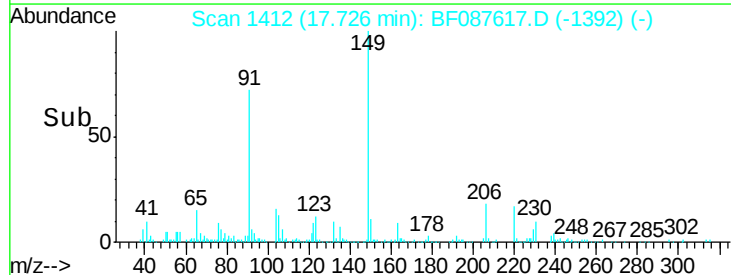
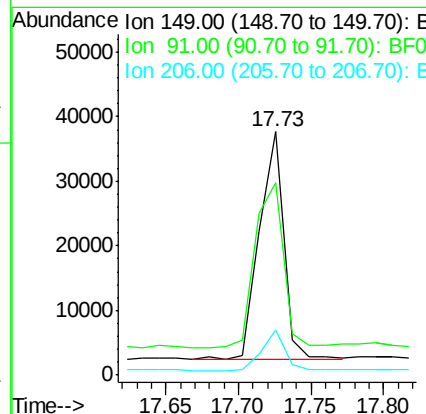
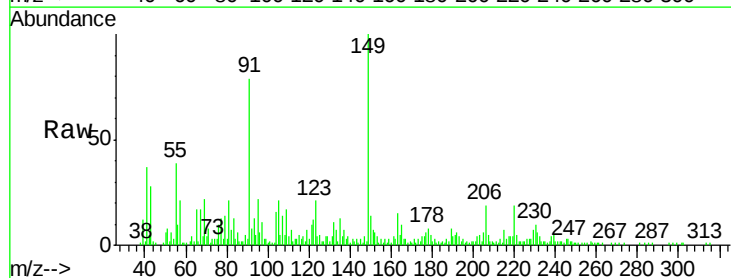
RT: 17.73 min Scan# 1412

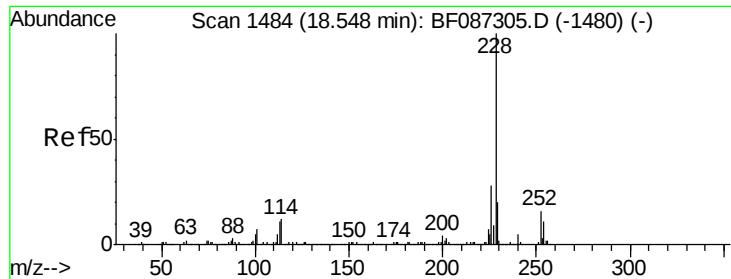
Delta R.T. -0.07 min

Lab File: BF087617.D

Acq: 1 Jun 2016 11:43

Tgt Ion:	149	Resp:	41140
Ion Ratio		Lower	Upper
149	100		
91	79.1	48.0	72.0#
206	18.8	15.8	23.6





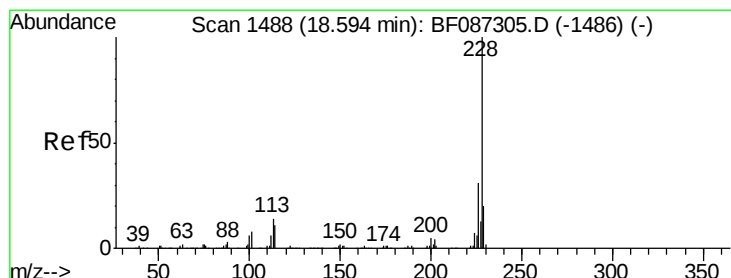
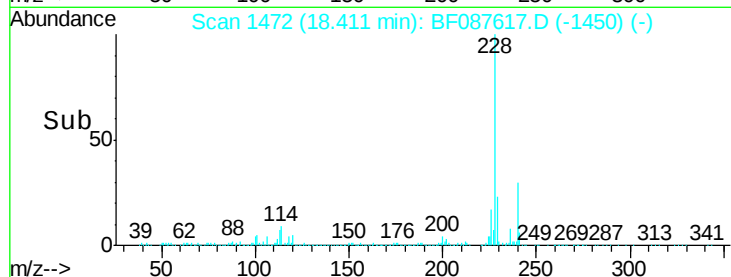
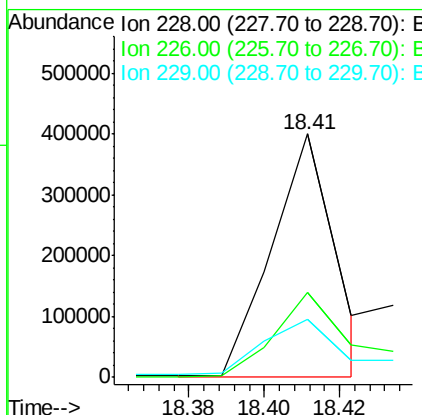
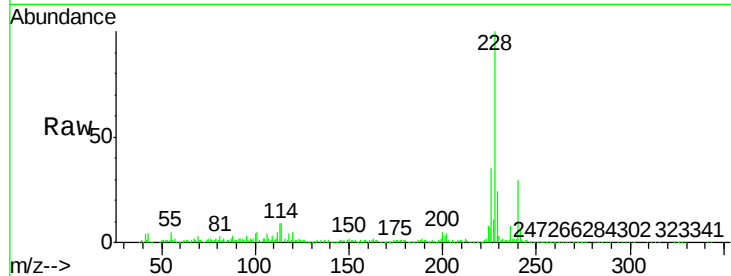
#80
Benzo(a)anthracene
Concen: 29.45 ng m
RT: 18.41 min Scan# 1472
Delta R.T. -0.05 min
Lab File: BF087617.D
Acq: 1 Jun 2016 11:43

Instrument :
BNA_F
ClientSampleId :
GM-SP-(0-4)RE

Tot Ion	Ratio	Lower	Upper
228	100		
226	34.9	22.5	33.7#
229	23.7	16.6	25.0

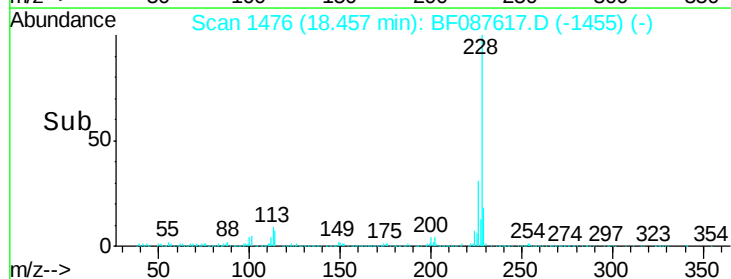
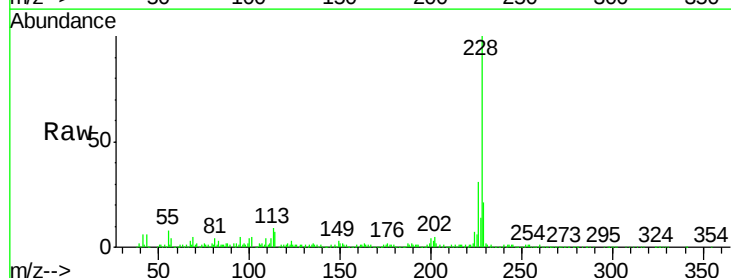
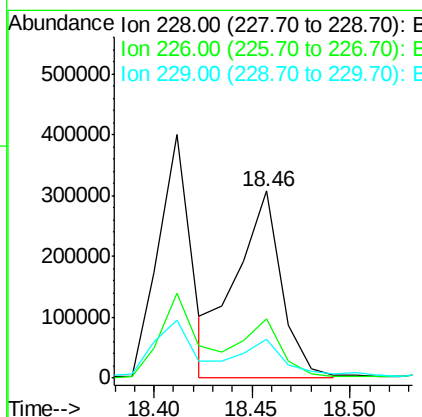
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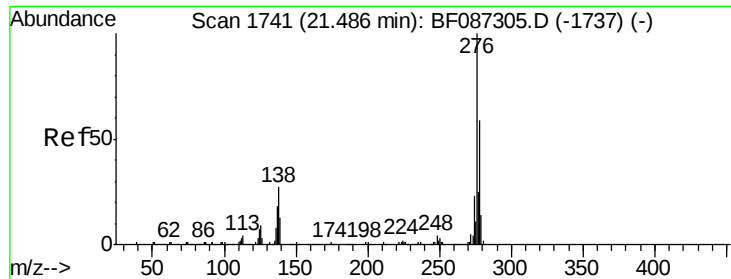
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#82
Chrysene
Concen: 31.77 ng m
RT: 18.46 min Scan# 1476
Delta R.T. -0.06 min
Lab File: BF087617.D
Acq: 1 Jun 2016 11:43

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.4	36.6
229	20.7	15.8	23.8





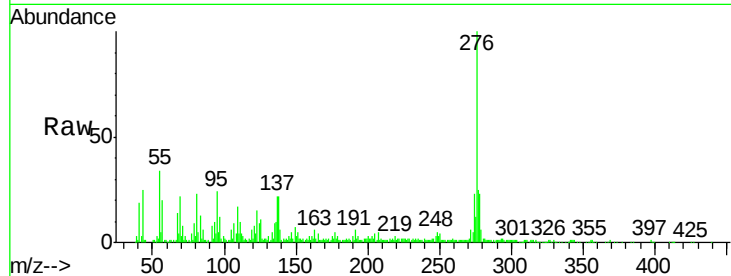
#85
Indeno(1,2,3-cd)pyrene
Concen: 16.24 ng
RT: 21.35 min Scan# 1729
Delta R.T. -0.01 min
Lab File: BF087617.D
Acq: 1 Jun 2016 11:43

Instrument :
BNA_F
ClientSampleId :
GM-SP-(0-4)RE

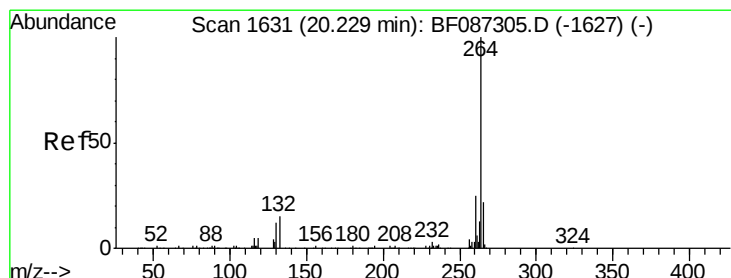
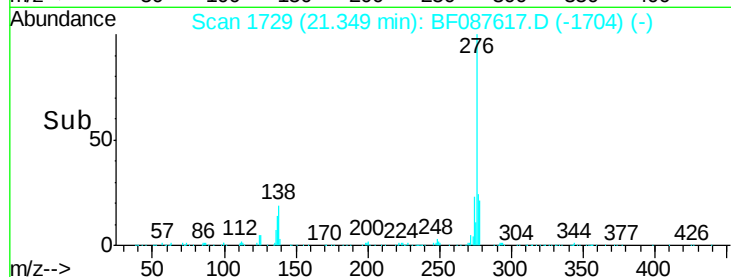
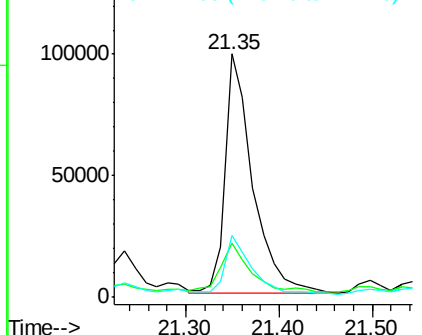
Tot Ion	Ratio	Lower	Upper
276	100		
138	22.0	25.6	38.4#
277	23.0	20.5	30.7

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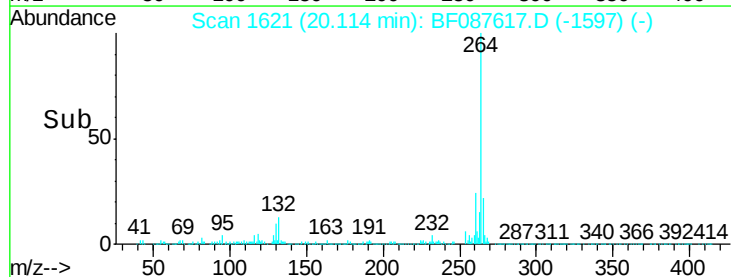
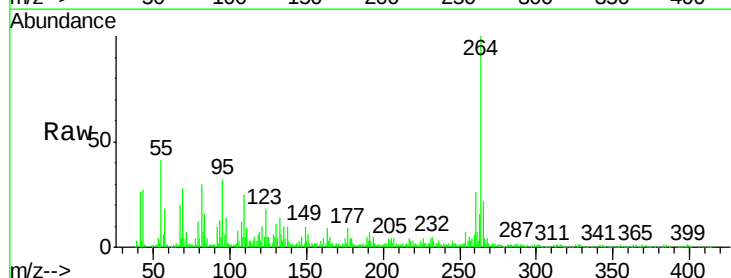
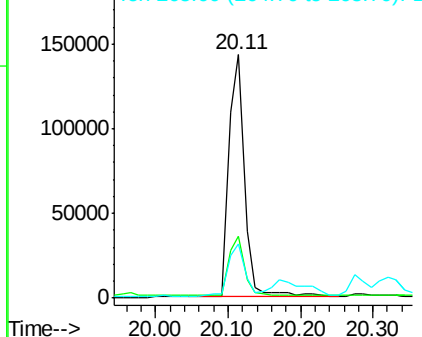
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

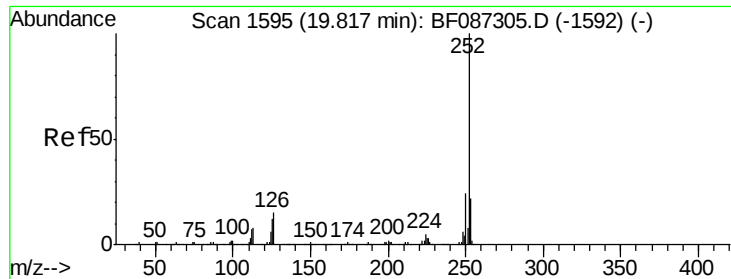


#86
Perylene-d12
Concen: 20.00 ng
RT: 20.11 min Scan# 1621
Delta R.T. -0.02 min
Lab File: BF087617.D
Acq: 1 Jun 2016 11:43

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.6	19.5	29.3
265	22.5	17.3	25.9

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





#87

Benzo(b)fluoranthene

Concen: 44.50 ng m

RT: 19.70 min Scan# 1585

Delta R.T. -0.02 min

Lab File: BF087617.D

Acq: 1 Jun 2016 11:43

Instrument :

BNA_F

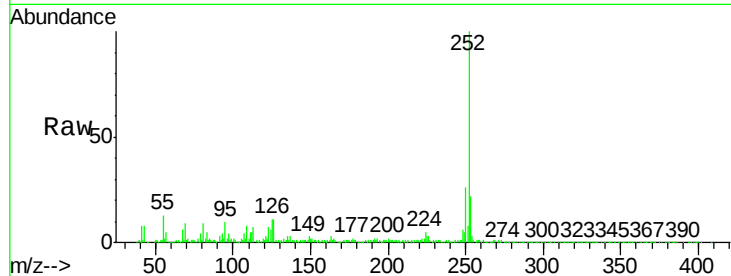
ClientSampleId :

GM-SP-(0-4)RE

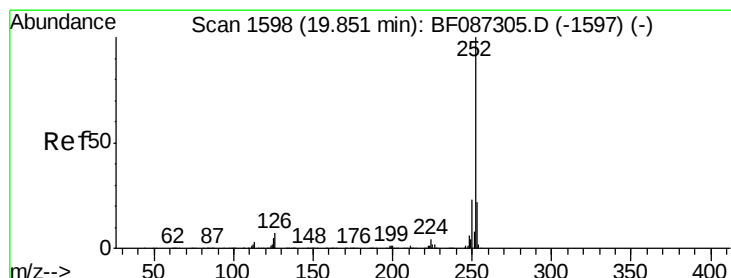
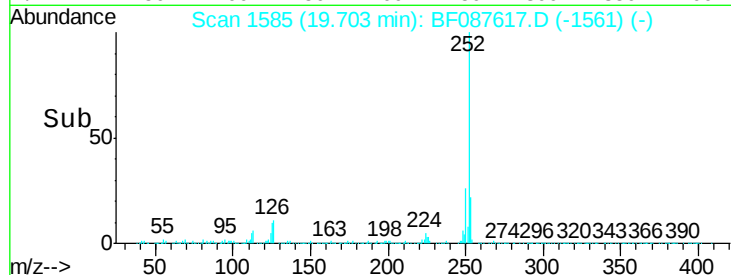
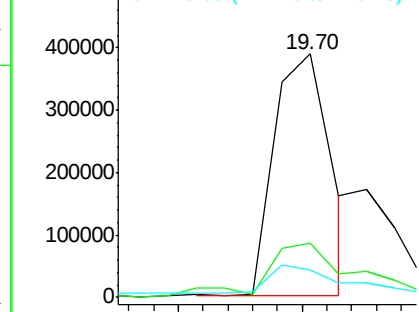
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.8	26.6
125	11.5	11.4	17.0

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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 18.62 ng m

RT: 19.73 min Scan# 1587

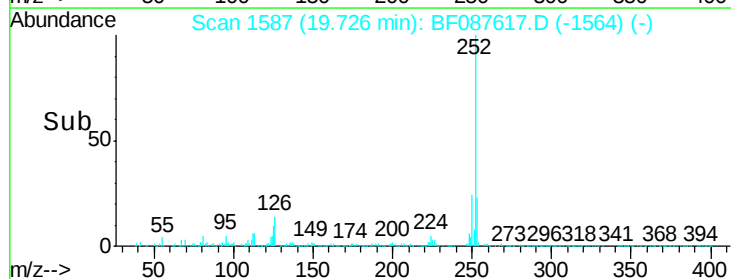
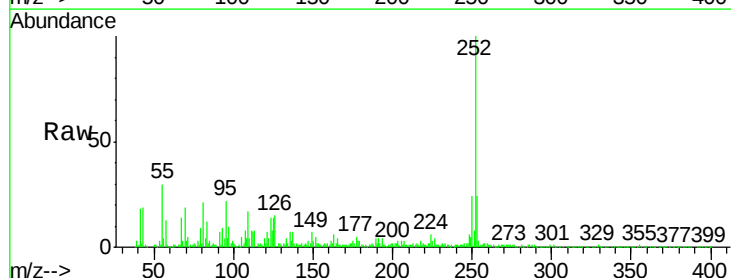
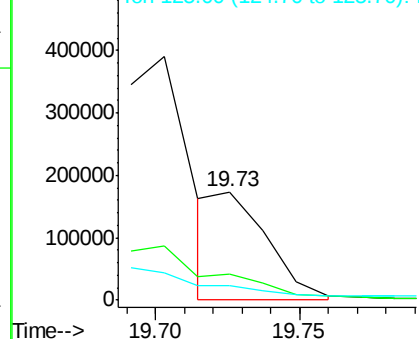
Delta R.T. -0.03 min

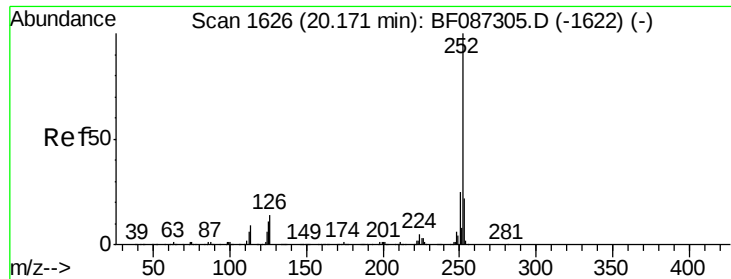
Lab File: BF087617.D

Acq: 1 Jun 2016 11:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.8	26.6
125	13.5	9.1	13.7

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 26.35 ng

RT: 20.06 min Scan# 1616

Delta R.T. -0.02 min

Lab File: BF087617.D

Acq: 1 Jun 2016 11:43

Instrument :

BNA_F

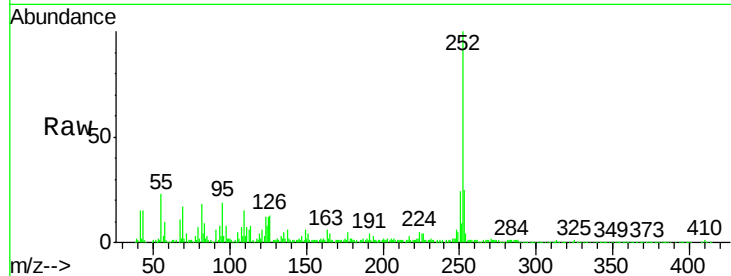
ClientSampleId :

GM-SP-(0-4)RE

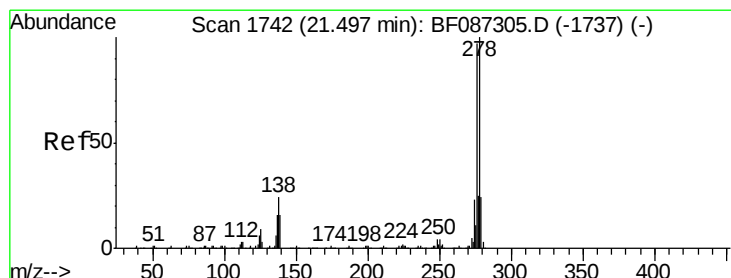
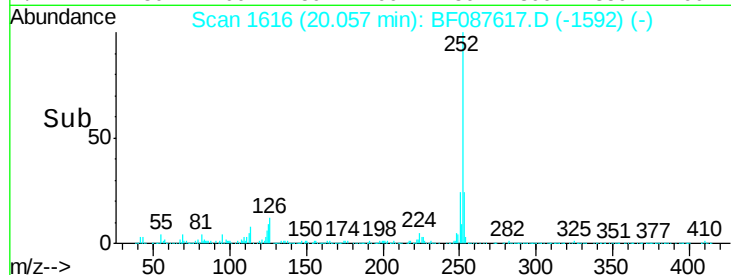
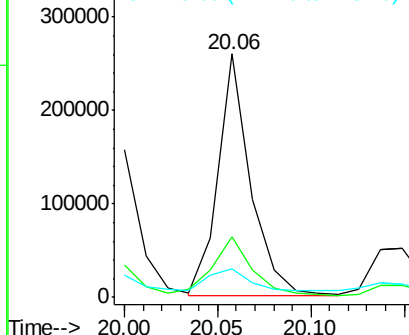
Tot Ion:	252	Resp:	313597
Ion Ratio	Lower	Upper	
252	100		
253	25.1	17.2	25.8
125	11.9	9.0	13.6

Manual Integrations
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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 6.71 ng m

RT: 21.35 min Scan# 1729

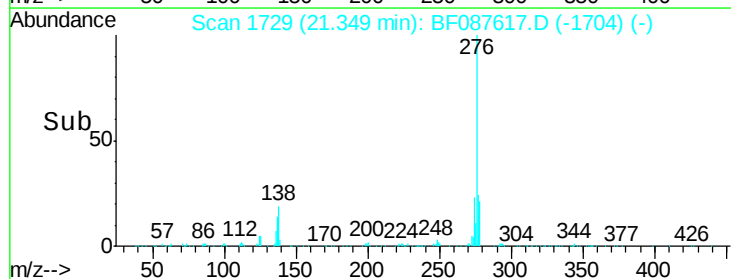
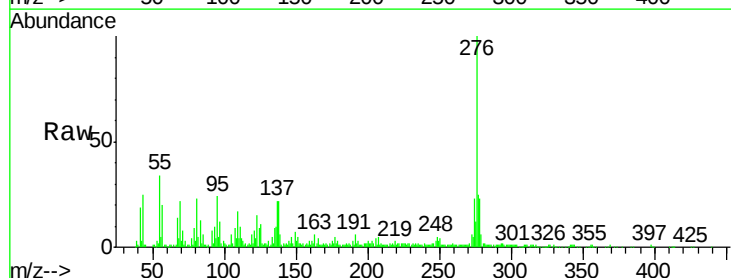
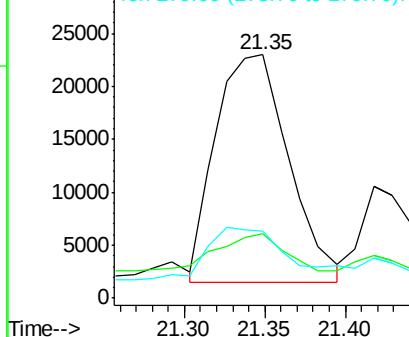
Delta R.T. -0.01 min

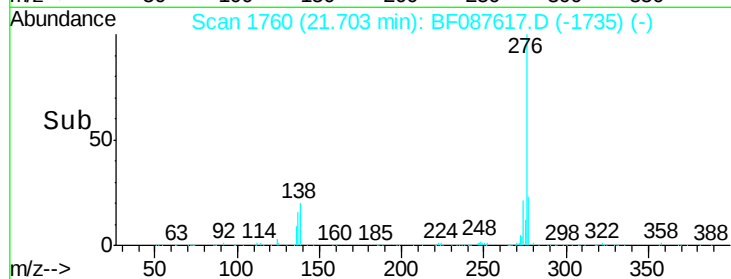
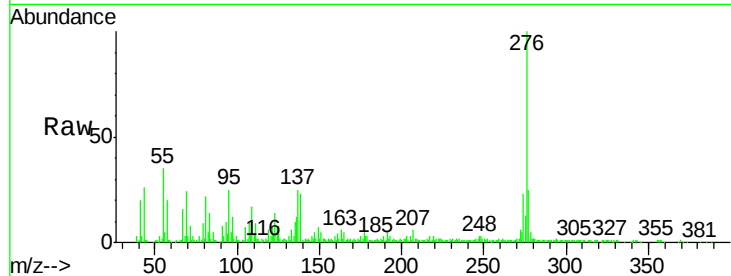
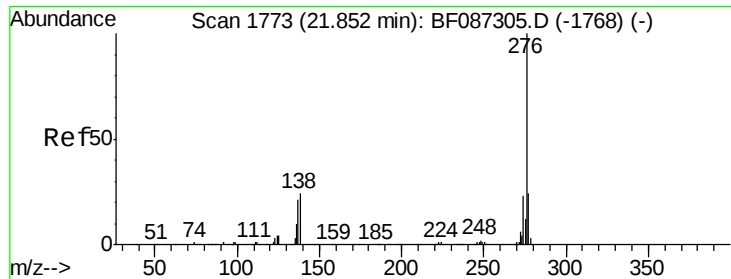
Lab File: BF087617.D

Acq: 1 Jun 2016 11:43

Tgt Ion:	278	Resp:	68116
Ion Ratio	Lower	Upper	
278	100		
139	26.6	16.6	24.8#
279	27.7	19.6	29.4

Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 17.47 ng
 RT: 21.70 min Scan# 1760
 Delta R.T. -0.01 min
 Lab File: BF087617.D
 Acq: 1 Jun 2016 11:43

Instrument :
 BNA_F
 ClientSampleId :
 GM-SP-(0-4)RE

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.6	29.4
138	23.4	23.6	35.4#

Manual Integrations
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