

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051216\
 Data File : BF086946.D
 Acq On : 12 May 2016 22:49
 Operator : UM/SJ
 Sample : H2994-03
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1335-00(0-3)

Manual Integrations
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Quant Time: May 13 02:07:02 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 13 00:58:18 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.62	152	151157	20.00	ng	-0.01
21) Naphthalene-d8	7.91	136	598730	20.00	ng	-0.01
38) Acenaphthene-d10	9.66	164	255920	20.00	ng	-0.01
63) Phenanthrene-d10	11.13	188	371775	20.00	ng	-0.01
75) Chrysene-d12	13.77	240	278147	20.00	ng	0.00
86) Perylene-d12	15.13	264	318538	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.22	112	1077041	120.67	ng	0.01
7) Phenol-d6	6.30	99	1483605	124.37	ng	0.00
23) Nitrobenzene-d5	7.20	82	984099	82.53	ng	-0.01
41) 2,4,6-Tribromophenol	10.44	330	240162	88.64	ng	-0.01
44) 2-Fluorobiphenyl	8.99	172	1451293	95.31	ng	0.00
78) Terphenyl-d14	12.72	244	808402	61.67	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.93	128	227485	7.59	ng	99
37) 2-Methylnaphthalene	8.63	142	122178	6.97	ng	99
48) Acenaphthylene	9.52	152	513817	21.90	ng	98
49) Dimethylphthalate	9.39	163	96754	4.96	ng	99
54) Dibenzofuran	9.86	168	82134	4.38	ng	# 95
70) Phenanthrene	11.16	178	939664	47.36	ng	99
71) Anthracene	11.21	178	400130	19.72	ng	99
72) Carbazole	11.37	167	142289	8.16	ng	98
74) Fluoranthene	12.35	202	1955489	95.83	ng	92
77) Pyrene	12.57	202	1406699	66.06	ng	99
79) Butylbenzylphthalate	13.20	149	66279	7.36	ng	# 78
80) Benzo(a)anthracene	13.76	228	1245786m	79.78	ng	
82) Chrysene	13.79	228	746924	47.03	ng	95
85) Indeno(1,2,3-cd)pyrene	16.39	276	513062	38.82	ng	# 89
87) Benzo(b)fluoranthene	14.77	252	1760432m	85.04	ng	
88) Benzo(k)fluoranthene	14.79	252	190229m	11.22	ng	
89) Benzo(a)pyrene	15.09	252	874019	48.95	ng	96
90) Dibenzo(a,h)anthracene	16.39	278	160551m	10.67	ng	
91) Benzo(g,h,i)perylene	16.77	276	392156	25.65	ng	# 94

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

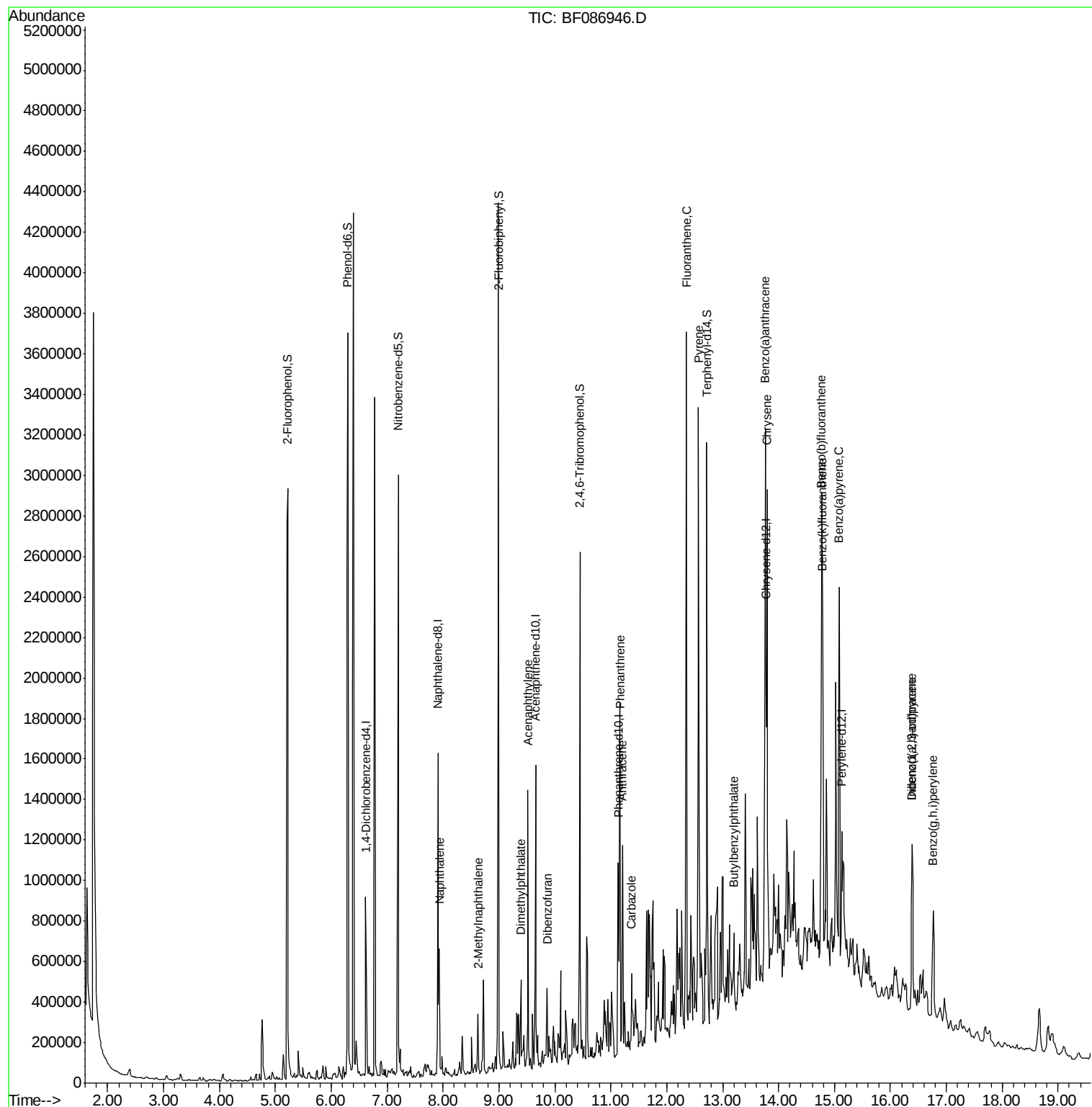
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051216\
Data File : BF086946.D
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ALS Vial : 20 Sample Multiplier: 1

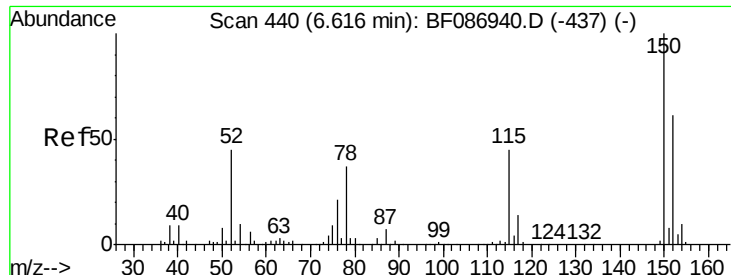
Instrument :
BNA_F
ClientSampleId :
PM-STA-1335-00(0-3)

Manual Integrations
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Quant Time: May 13 02:07:02 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 13 00:58:18 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.62 min Scan# 440

Delta R.T. -0.01 min

Lab File: BF086946.D

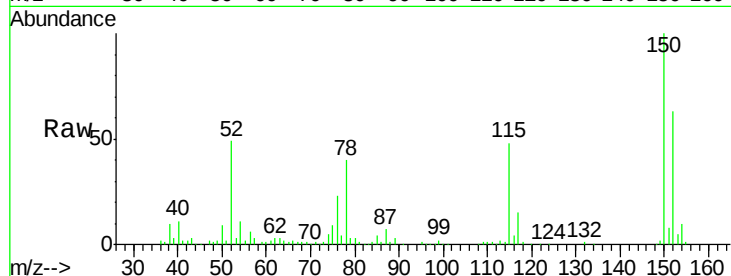
Acq: 12 May 2016 22:49

Instrument :

BNA_F

ClientSampleId :

PM-STA-1335-00(0-3)



Tgt Ion:152 Resp: 151157

Ion Ratio Lower Upper

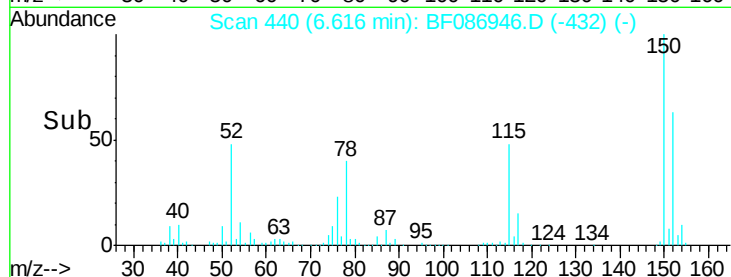
152 100

150 159.6 125.8 188.6

115 76.1 51.5 77.3

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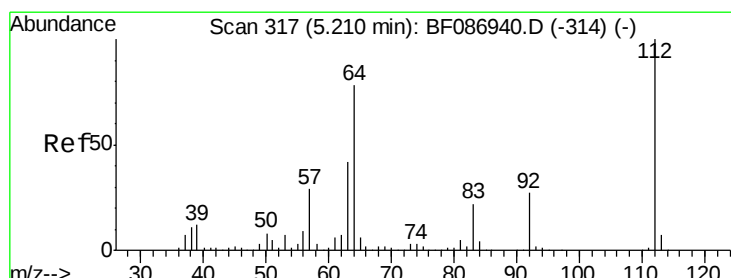
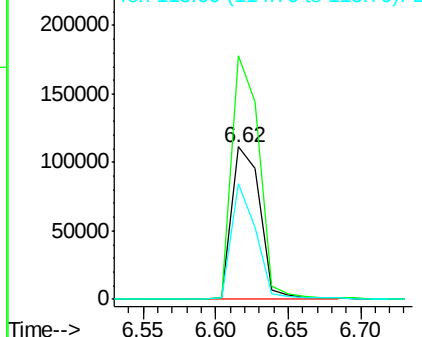
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 120.67 ng

RT: 5.22 min Scan# 318

Delta R.T. 0.01 min

Lab File: BF086946.D

Acq: 12 May 2016 22:49

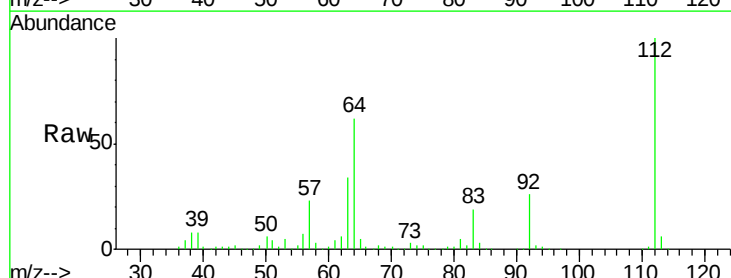
Tgt Ion:112 Resp: 1077041

Ion Ratio Lower Upper

112 100

64 61.9 52.1 78.1

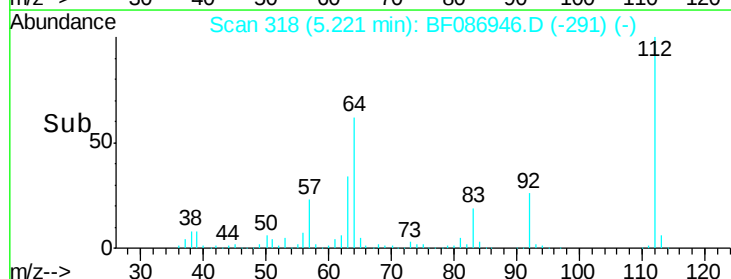
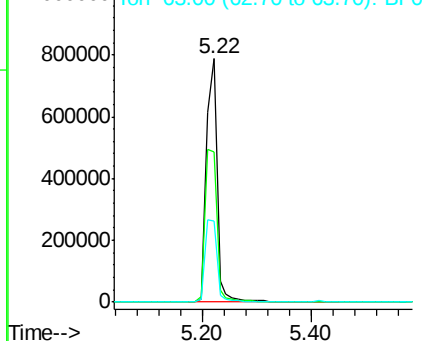
63 33.6 25.7 38.5

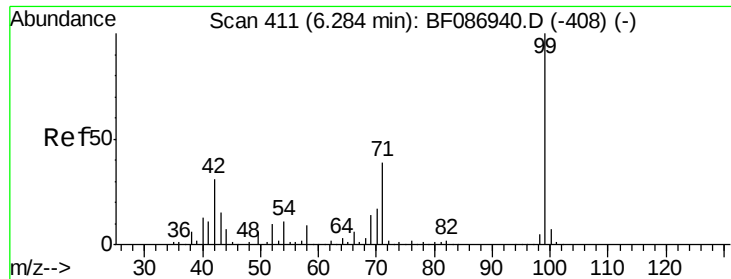


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 124.37 ng

RT: 6.30 min Scan# 412

Delta R.T. 0.00 min

Lab File: BF086946.D

Acq: 12 May 2016 22:49

Instrument :

BNA_F

ClientSampleId :

PM-STA-1335-00(0-3)

Tgt Ion: 99 Resp: 1483605

Ion Ratio Lower Upper

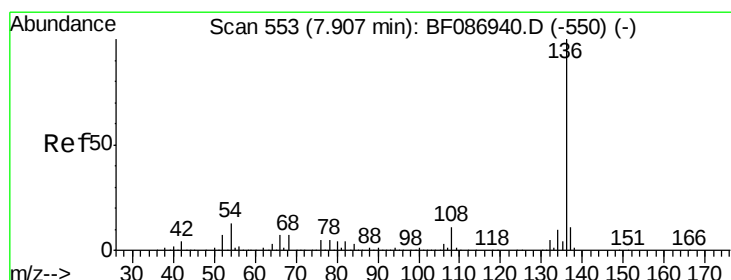
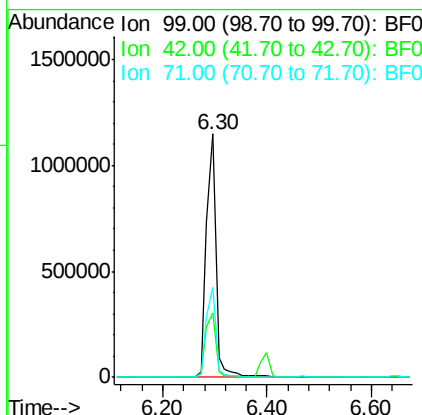
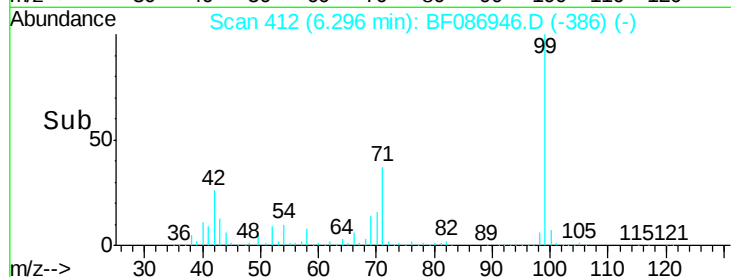
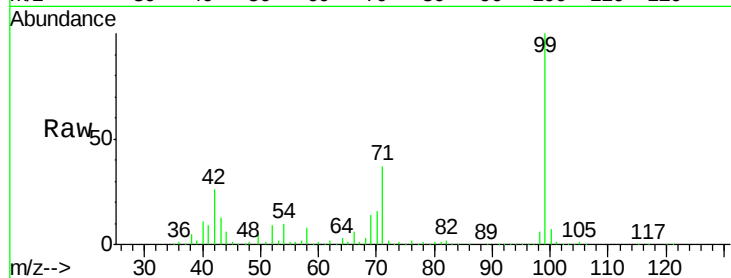
99 100

42 26.4 13.6 20.4#

71 37.1 24.6 36.8#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.91 min Scan# 553

Delta R.T. -0.01 min

Lab File: BF086946.D

Acq: 12 May 2016 22:49

Tgt Ion: 136 Resp: 598730

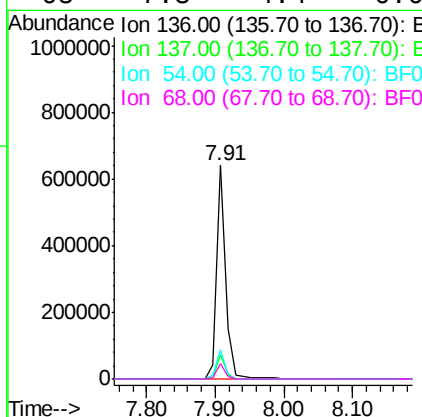
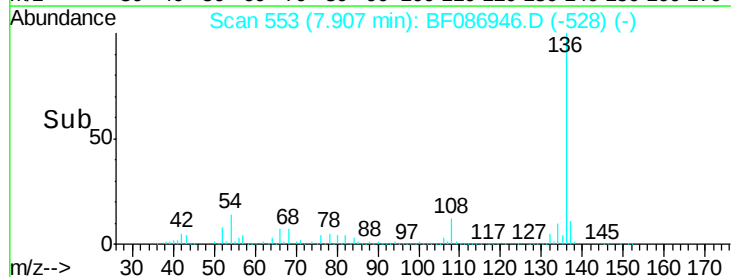
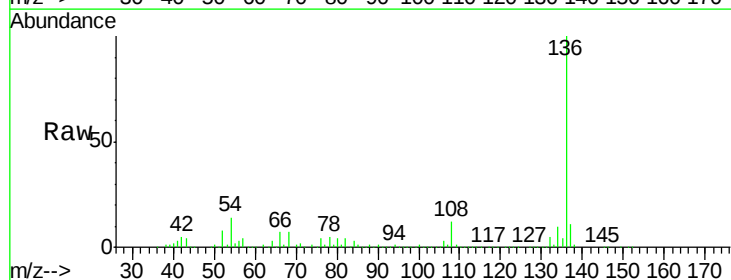
Ion Ratio Lower Upper

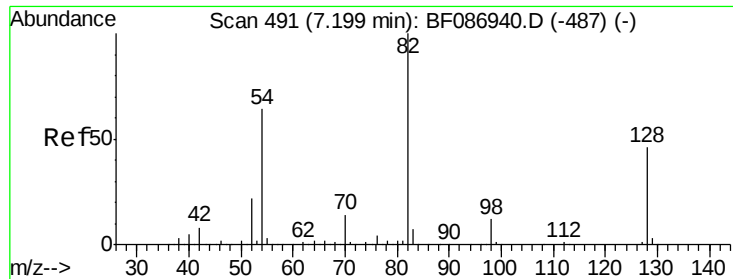
136 100

137 11.3 8.8 13.2

54 13.8 5.0 7.4#

68 7.3 4.4 6.6#





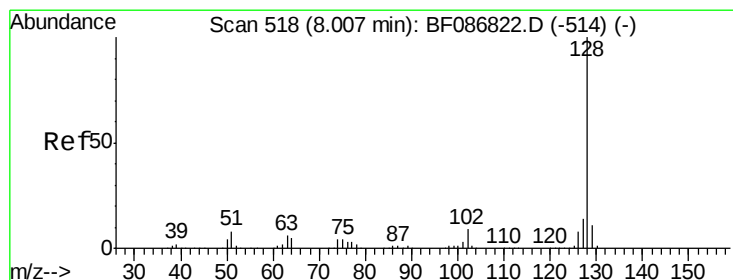
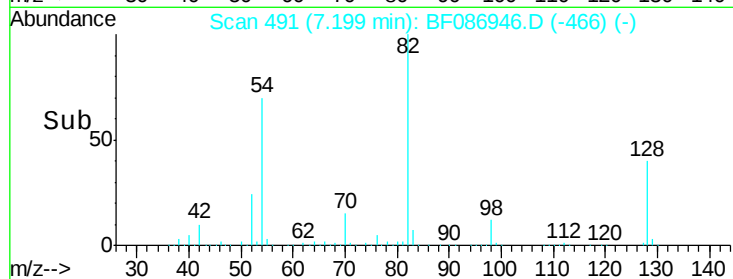
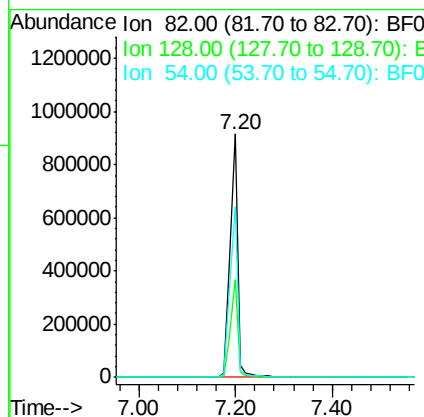
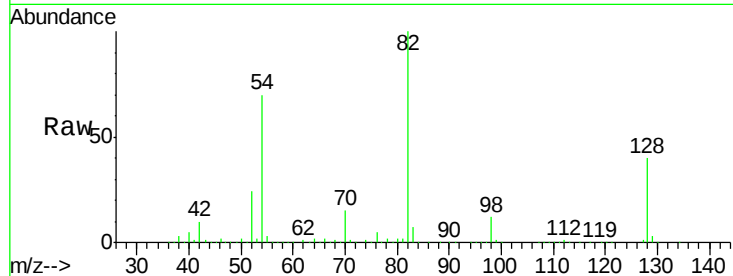
#23
Nitrobenzene-d5
Concen: 82.53 ng
RT: 7.20 min Scan# 491
Delta R.T. -0.01 min
Lab File: BF086946.D
Acq: 12 May 2016 22:49

Instrument :
BNA_F
ClientSampleId :
PM-STA-1335-00(0-3)

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	40.2	40.6	61.0#
54	69.9	38.1	57.1#

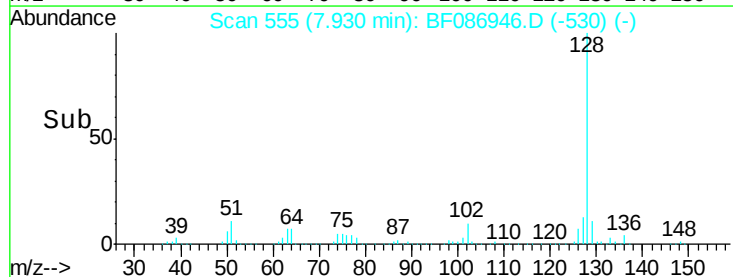
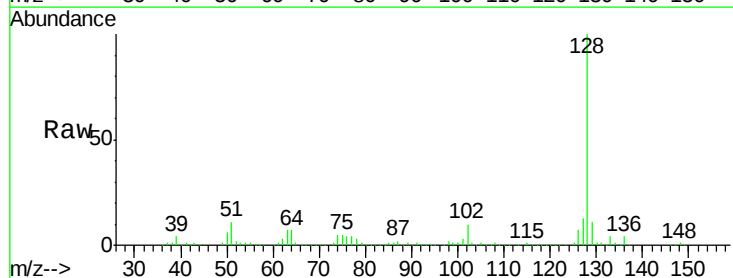
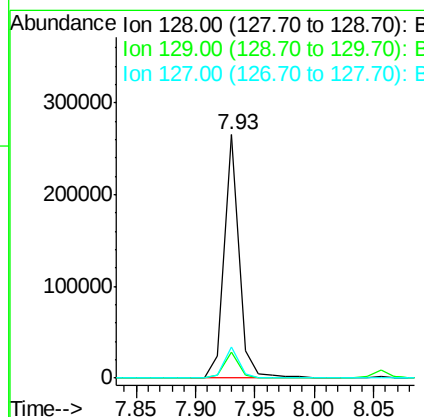
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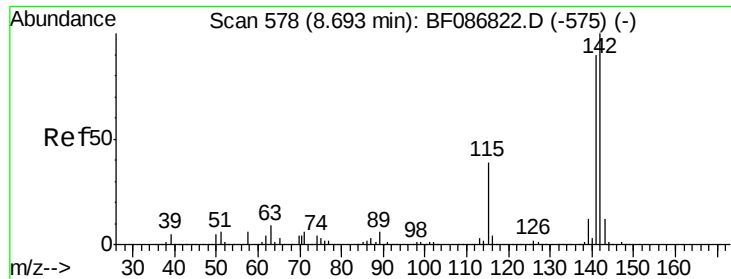
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#31
Naphthalene
Concen: 7.59 ng
RT: 7.93 min Scan# 555
Delta R.T. -0.01 min
Lab File: BF086946.D
Acq: 12 May 2016 22:49

Tgt Ion	Ratio	Resp Lower	Upper
128	100		
129	10.7	8.6	13.0
127	13.0	10.8	16.2





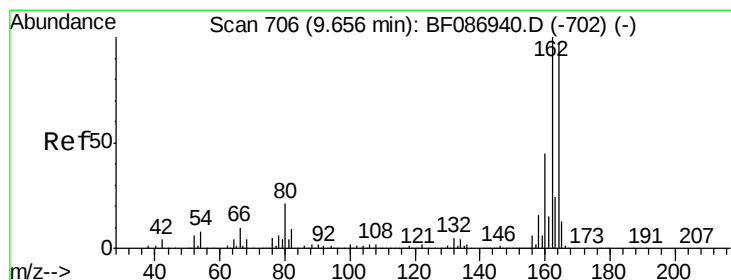
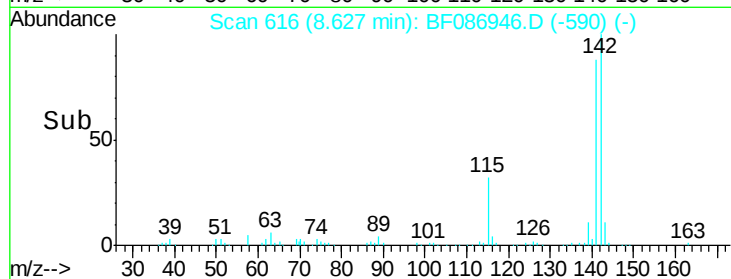
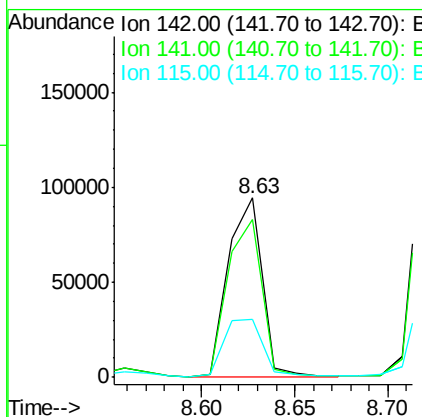
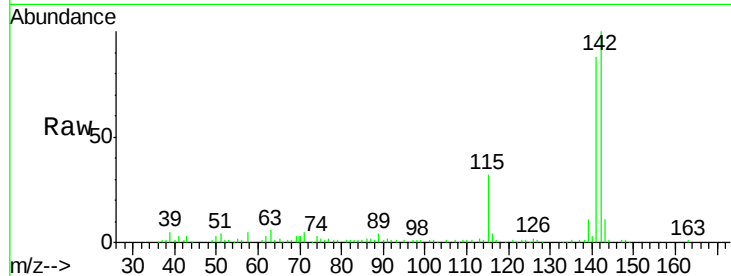
#37
2-Methylnaphthalene
Concen: 6.97 ng
RT: 8.63 min Scan# 616
Delta R.T. -0.00 min
Lab File: BF086946.D
Acq: 12 May 2016 22:49

Instrument :
BNA_F
ClientSampleId :
PM-STA-1335-00(0-3)

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	122178		
141	87.9	71.0	106.6	
115	32.4	26.6	39.8	

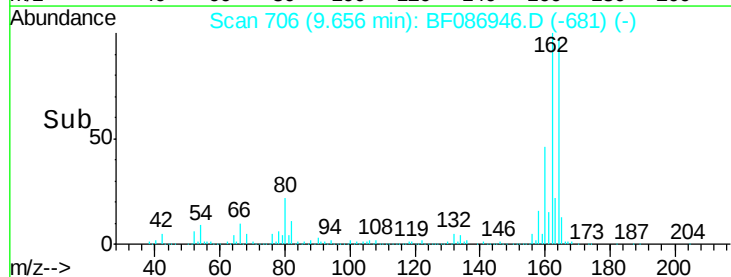
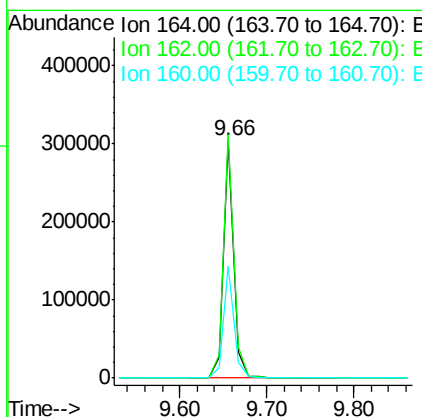
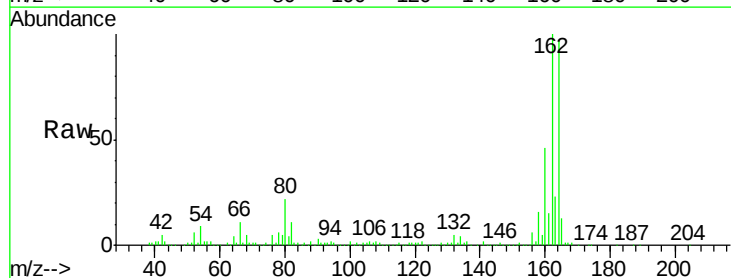
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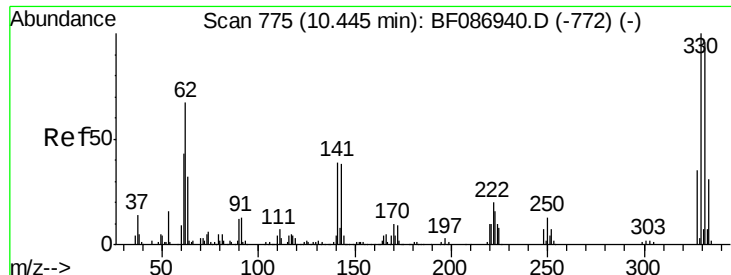
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.66 min Scan# 706
Delta R.T. -0.01 min
Lab File: BF086946.D
Acq: 12 May 2016 22:49

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	255920		
162	102.6	82.8	124.2	
160	47.2	36.9	55.3	





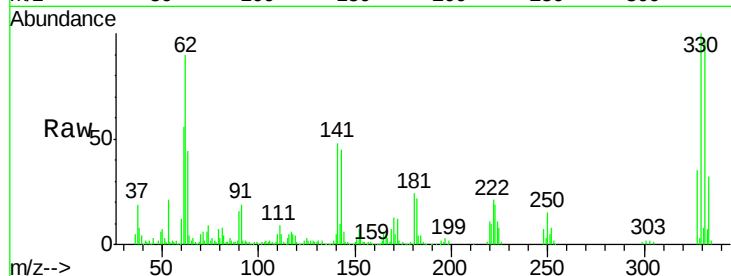
#41
 2,4,6-Tribromophenol
 Concen: 88.64 ng
 RT: 10.44 min Scan# 775
 Delta R.T. -0.01 min
 Lab File: BF086946.D
 Acq: 12 May 2016 22:49

Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1335-00(0-3)

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	240162		
332	95.7	79.0	118.4	
141	44.5	31.2	46.8	

Manual Integrations
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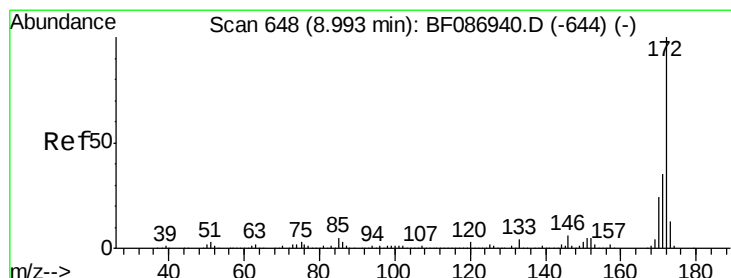
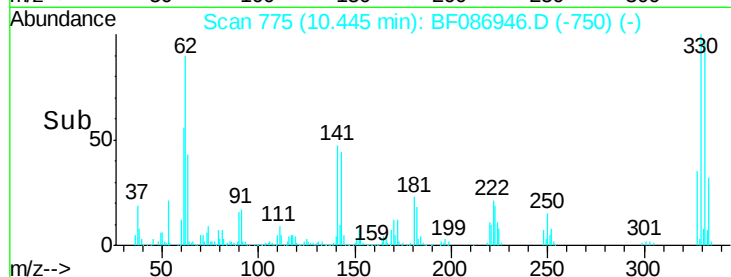
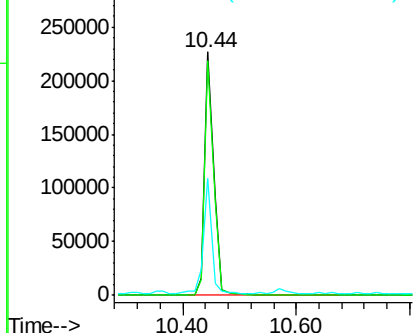


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 95.31 ng
 RT: 8.99 min Scan# 648
 Delta R.T. -0.00 min
 Lab File: BF086946.D
 Acq: 12 May 2016 22:49

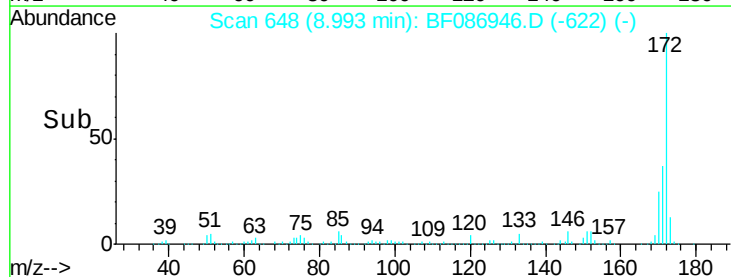
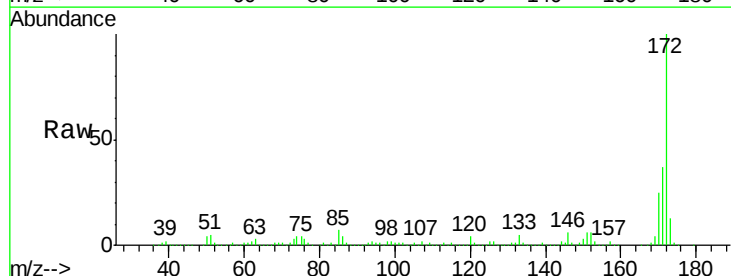
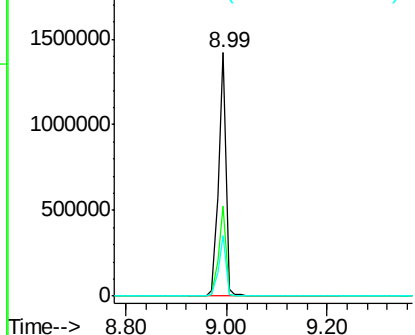
Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1451293		
171	36.9	29.0	43.6	
170	24.8	19.8	29.8	

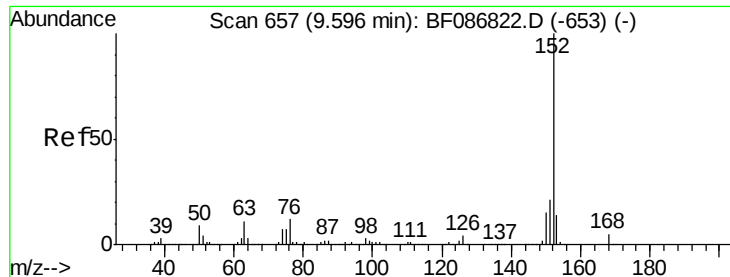
Abundance

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: 21.90 ng

RT: 9.52 min Scan# 694

Delta R.T. -0.01 min

Lab File: BF086946.D

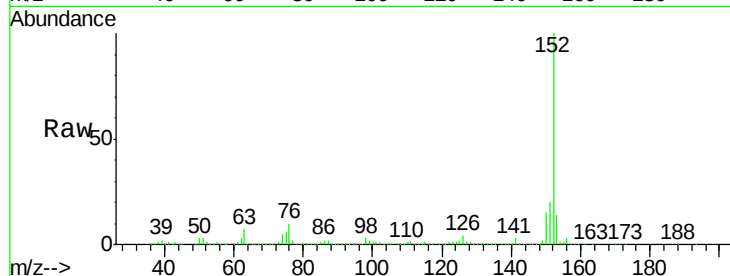
Acq: 12 May 2016 22:49

Instrument :

BNA_F

ClientSampleId :

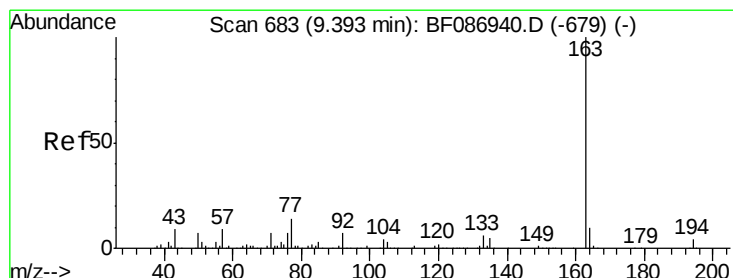
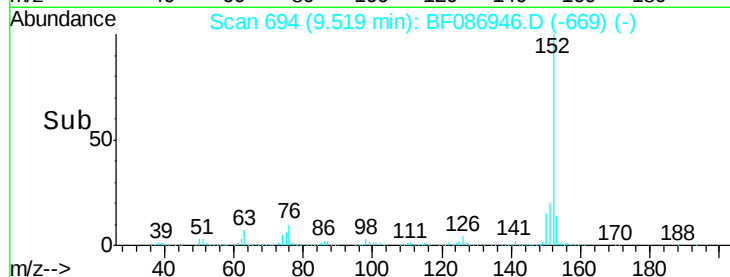
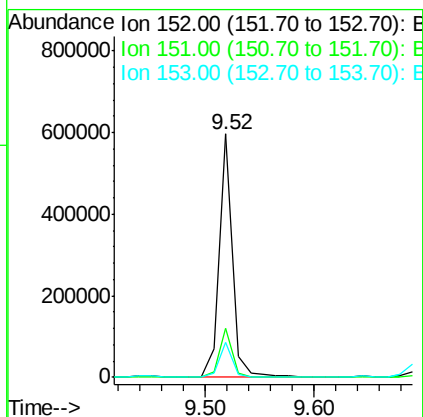
PM-STA-1335-00(0-3)



Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.8	25.2
153	14.2	10.9	16.3

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#49

Dimethylphthalate

Concen: 4.96 ng

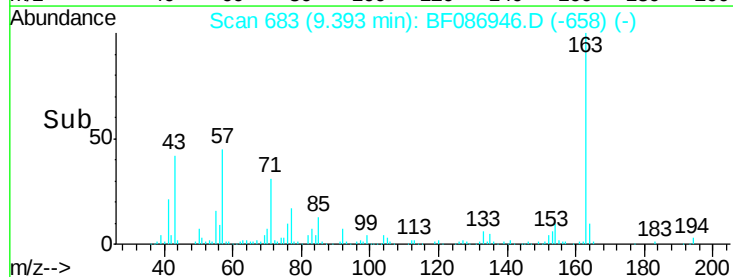
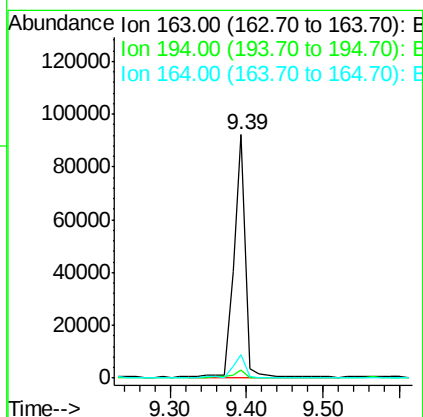
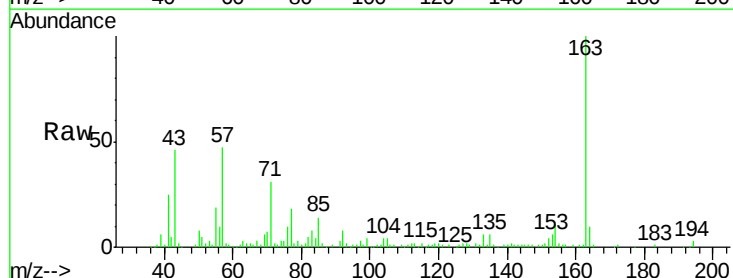
RT: 9.39 min Scan# 683

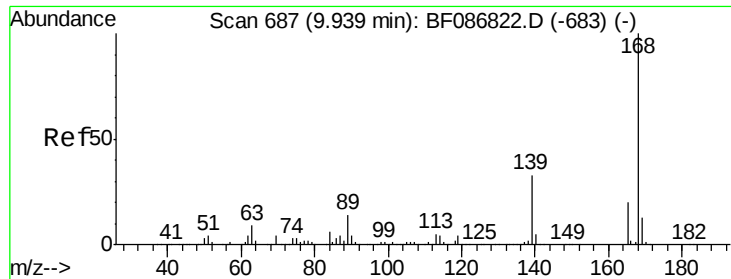
Delta R.T. -0.01 min

Lab File: BF086946.D

Acq: 12 May 2016 22:49

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.5	2.6	4.0
164	9.8	8.2	12.4





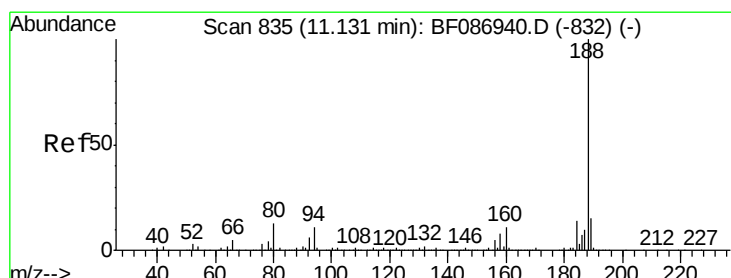
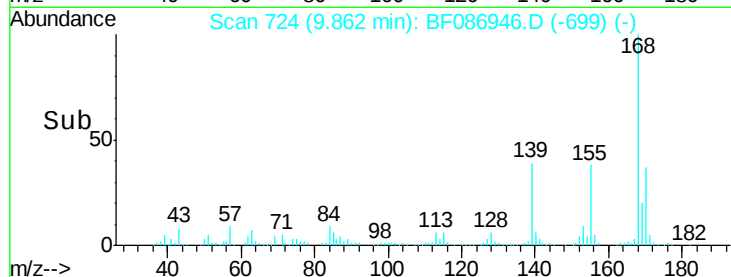
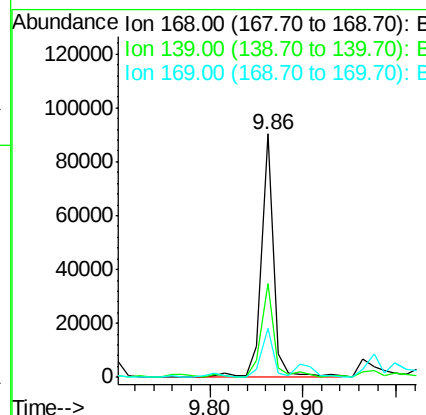
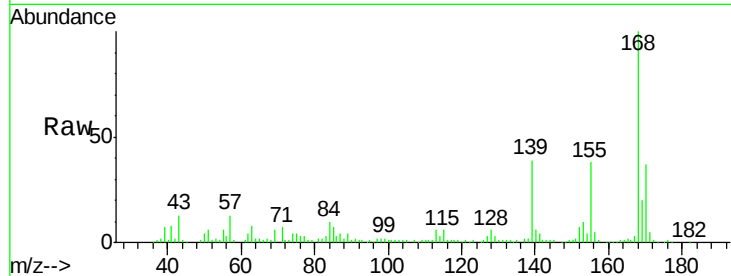
#54
Dibenzofuran
Concen: 4.38 ng
RT: 9.86 min Scan# 724
Delta R.T. -0.01 min
Lab File: BF086946.D
Acq: 12 May 2016 22:49

Instrument :
BNA_F
ClientSampleId :
PM-STA-1335-00(0-3)

Tgt Ion	Ratio	Lower	Upper
168	100		
139	38.7	31.4	47.0
169	19.9	10.7	16.1

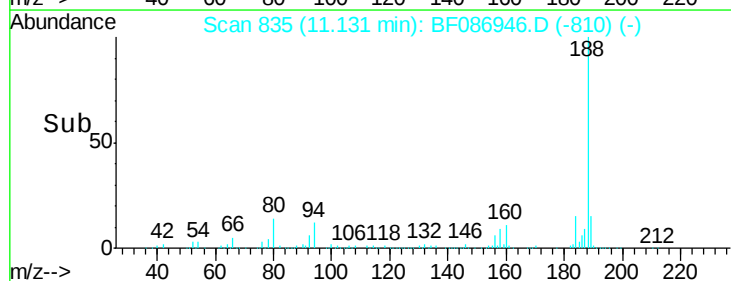
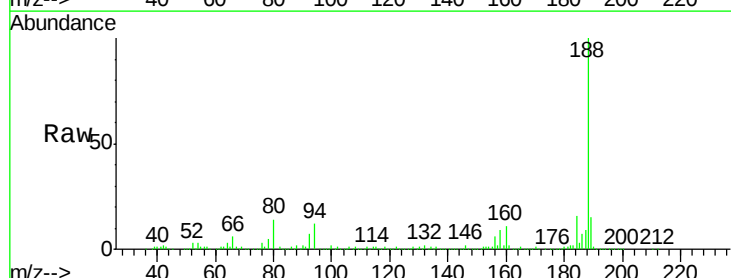
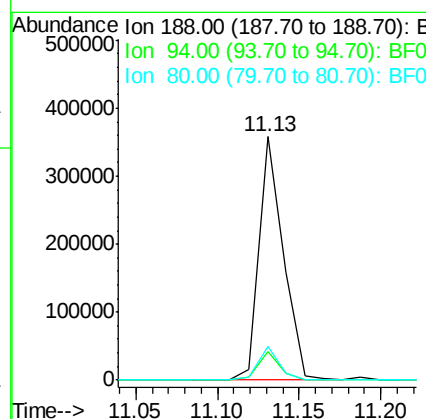
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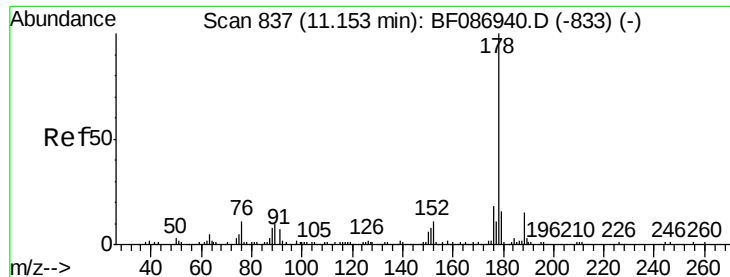
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#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.13 min Scan# 835
Delta R.T. -0.01 min
Lab File: BF086946.D
Acq: 12 May 2016 22:49

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.9	6.8	10.2
80	13.8	7.1	10.7





#70

Phenanthrene

Concen: 47.36 ng

RT: 11.16 min Scan# 838

Delta R.T. -0.00 min

Lab File: BF086946.D

Acq: 12 May 2016 22:49

Instrument :

BNA_F

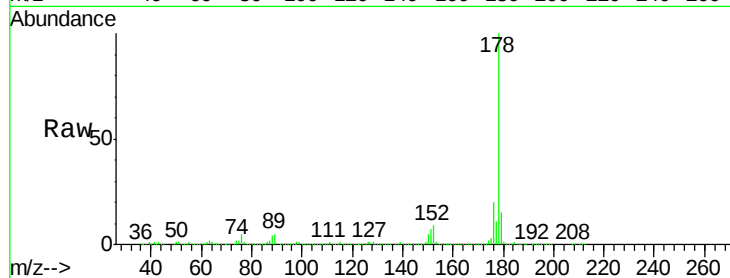
ClientSampleId :

PM-STA-1335-00(0-3)

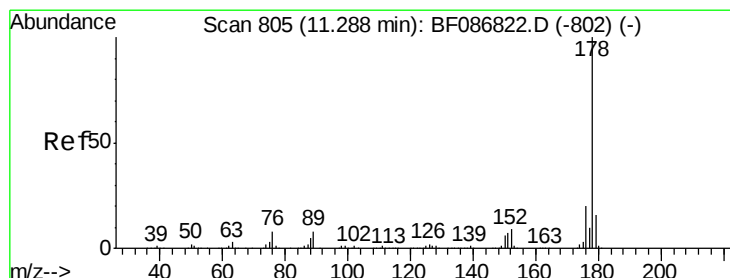
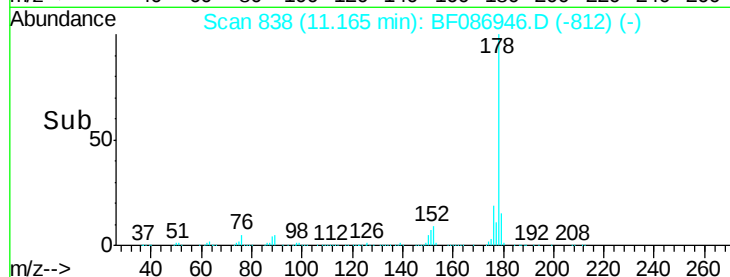
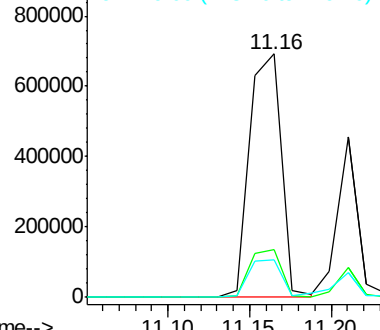
Tgt Ion:	178	Resp:	939664
Ion Ratio	Lower	Upper	
178	100		
176	19.5	16.0	24.0
179	15.2	12.6	18.8

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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: 19.72 ng

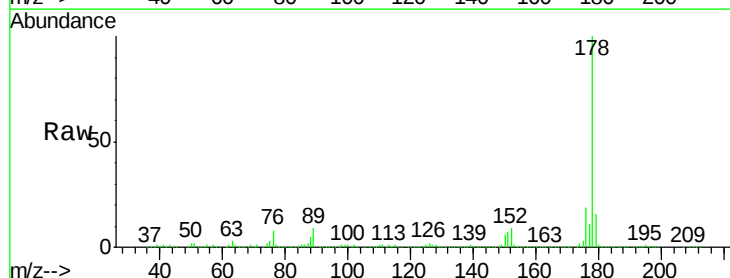
RT: 11.21 min Scan# 842

Delta R.T. -0.00 min

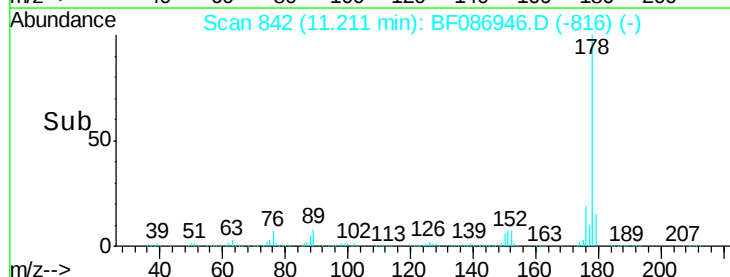
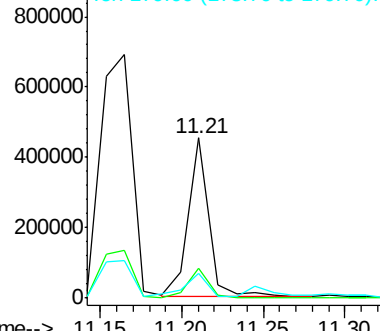
Lab File: BF086946.D

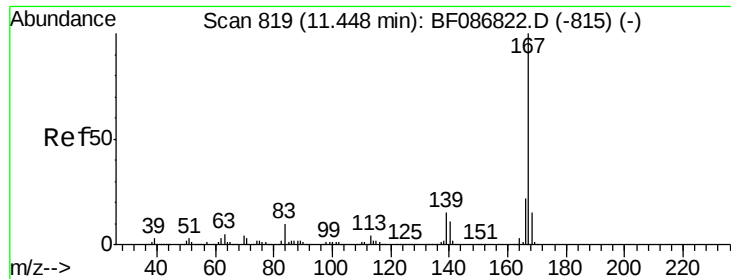
Acq: 12 May 2016 22:49

Tgt Ion:	178	Resp:	400130
Ion Ratio	Lower	Upper	
178	100		
176	19.0	15.6	23.4
179	15.8	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: 8.16 ng

RT: 11.37 min Scan# 856

Delta R.T. -0.01 min

Lab File: BF086946.D

Acq: 12 May 2016 22:49

Instrument :

BNA_F

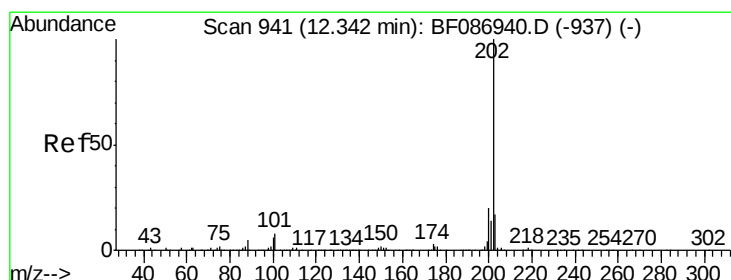
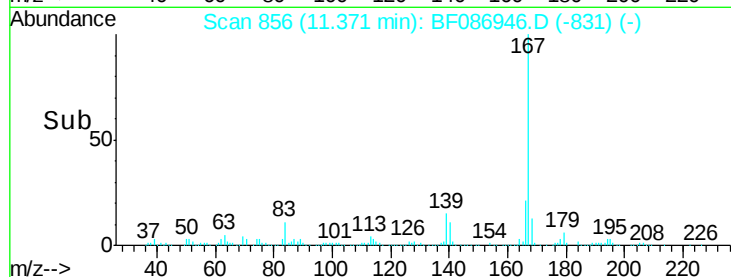
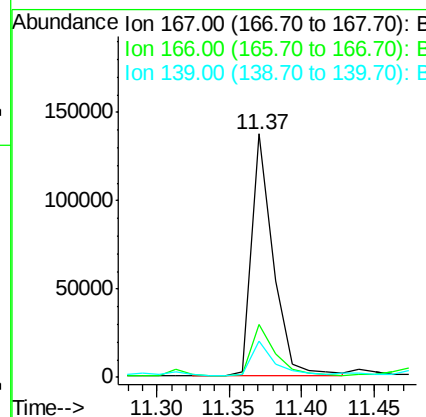
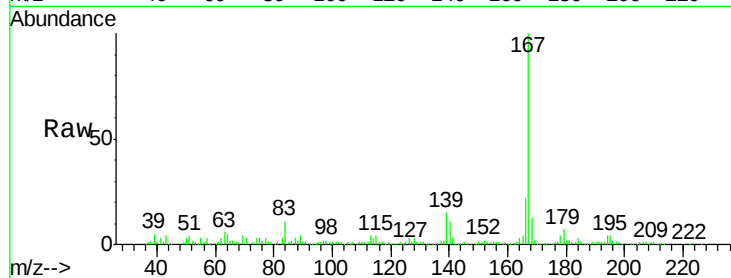
ClientSampleId :

PM-STA-1335-00(0-3)

Tgt Ion:	167	Resp:	142289
Ion Ratio	Lower	Upper	
167	100		
166	21.9	17.7	26.5
139	15.1	10.8	16.2

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#74

Fluoranthene

Concen: 95.83 ng

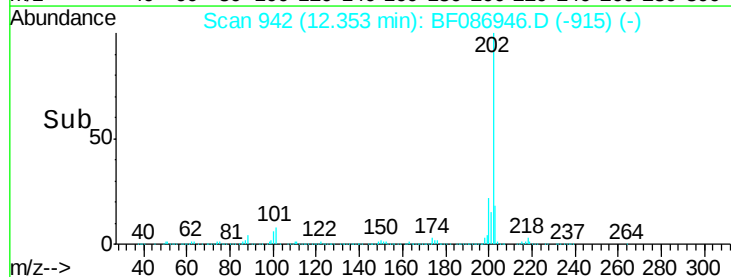
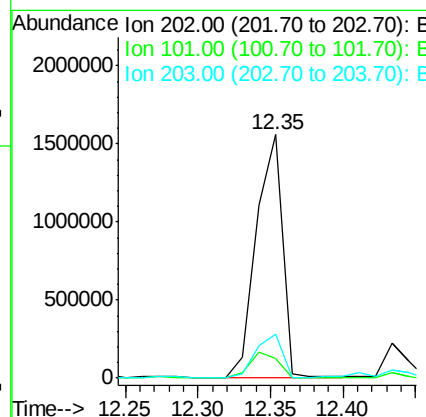
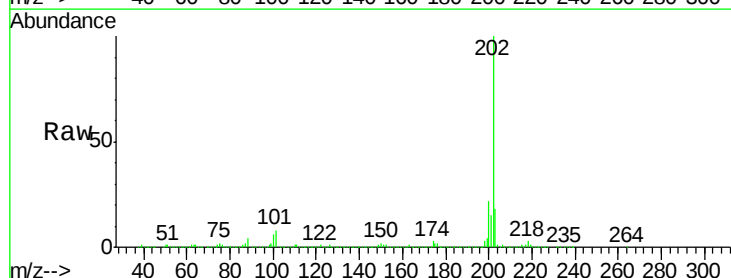
RT: 12.35 min Scan# 942

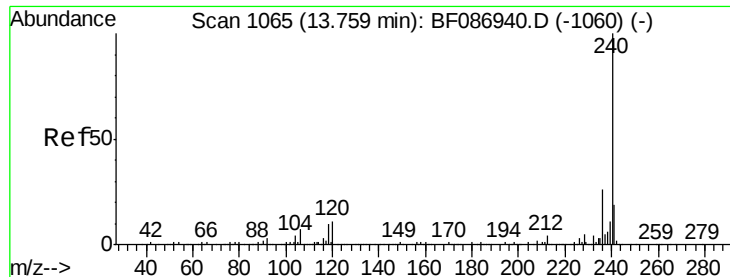
Delta R.T. 0.01 min

Lab File: BF086946.D

Acq: 12 May 2016 22:49

Tgt Ion:	202	Resp:	1955489
Ion Ratio	Lower	Upper	
202	100		
101	8.3	0.0	35.4
203	18.2	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.77 min Scan# 1066

Delta R.T. -0.00 min

Lab File: BF086946.D

Acq: 12 May 2016 22:49

Instrument :

BNA_F

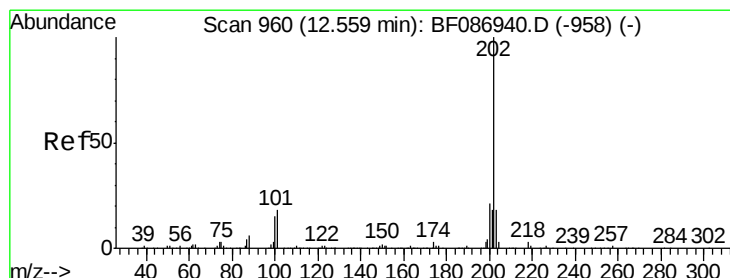
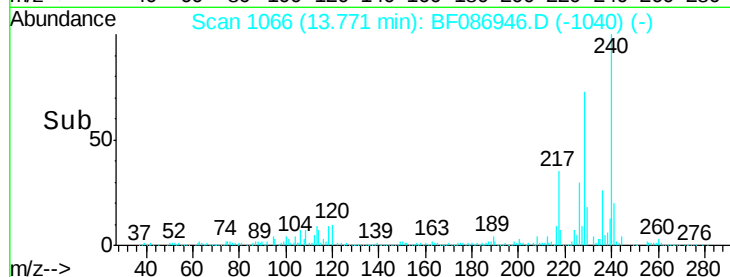
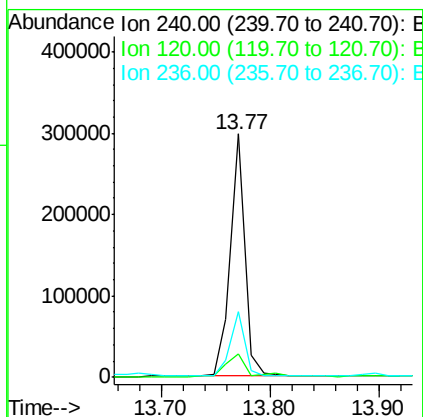
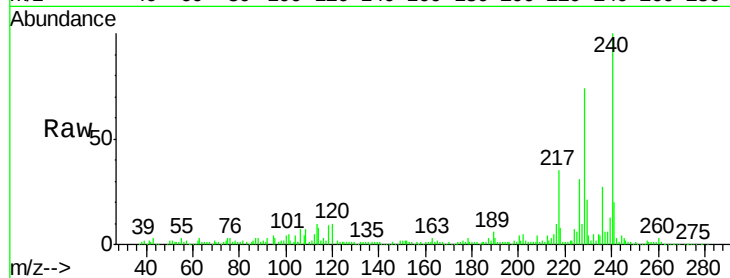
ClientSampleId :

PM-STA-1335-00(0-3)

Tgt Ion:	240	Resp:	278147
Ion Ratio	Lower	Upper	
240	100		
120	9.8	11.2	16.8#
236	26.8	21.2	31.8

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#77

Pyrene

Concen: 66.06 ng

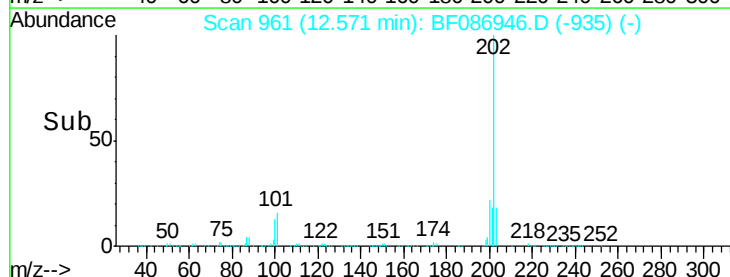
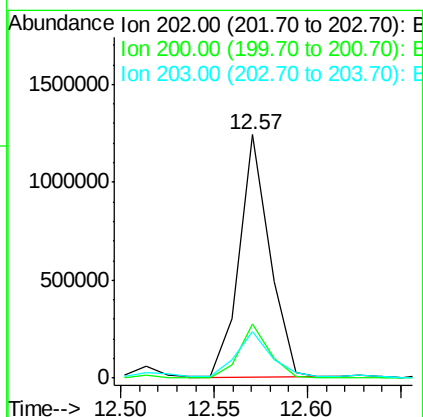
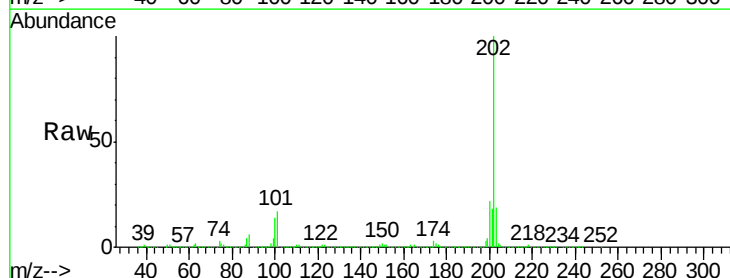
RT: 12.57 min Scan# 961

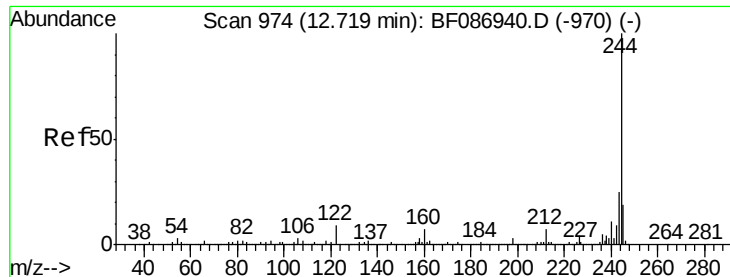
Delta R.T. -0.00 min

Lab File: BF086946.D

Acq: 12 May 2016 22:49

Tgt Ion:	202	Resp:	1406699
Ion Ratio	Lower	Upper	
202	100		
200	22.4	17.7	26.5
203	18.9	14.2	21.4





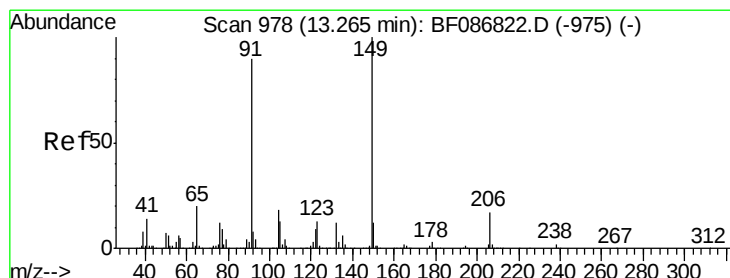
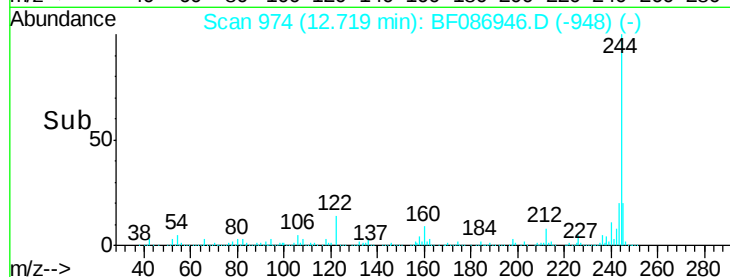
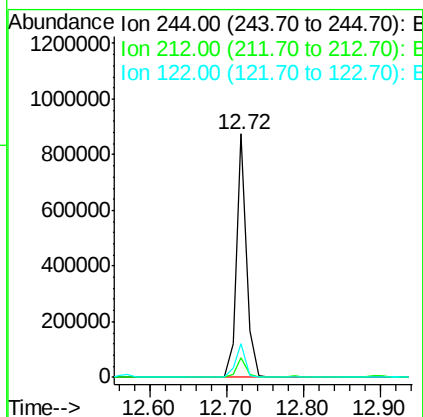
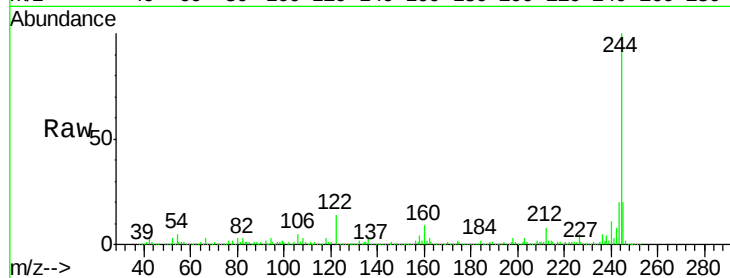
#78
 Terphenyl-d14
 Concen: 61.67 ng
 RT: 12.72 min Scan# 974
 Delta R.T. -0.00 min
 Lab File: BF086946.D
 Acq: 12 May 2016 22:49

Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1335-00(0-3)

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	8.0	6.2	9.2
122	13.8	12.0	18.0

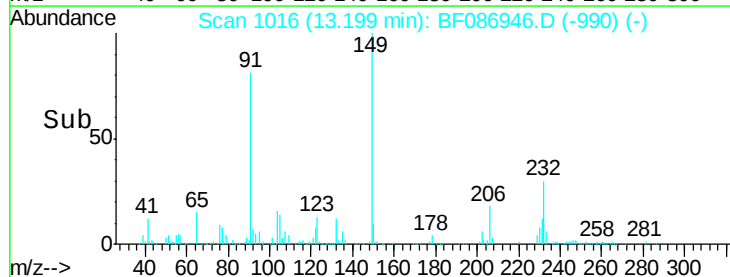
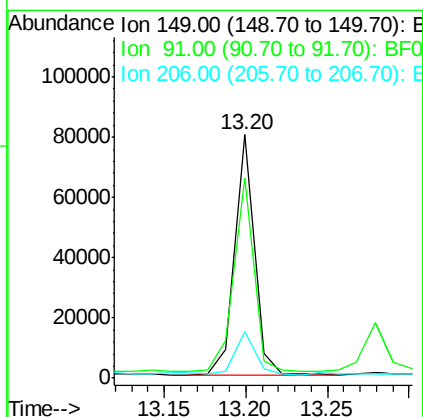
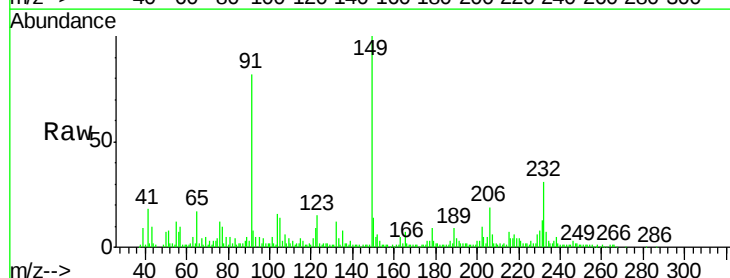
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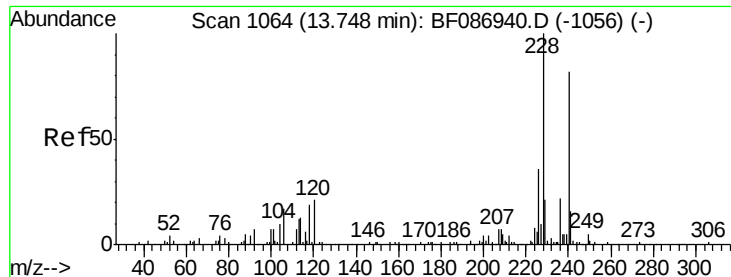
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#79
 Butylbenzylphthalate
 Concen: 7.36 ng
 RT: 13.20 min Scan# 1016
 Delta R.T. -0.00 min
 Lab File: BF086946.D
 Acq: 12 May 2016 22:49

Tgt Ion	Ratio	Resp Lower	Resp Upper
149	100		
91	82.3	48.0	72.0#
206	19.3	15.8	23.6





#80

Benzo(a)anthracene

Concen: 79.78 ng m

RT: 13.76 min Scan# 1065

Delta R.T. 0.00 min

Lab File: BF086946.D

Acq: 12 May 2016 22:49

Instrument :

BNA_F

ClientSampleId :

PM-STA-1335-00(0-3)

Tgt Ion:228 Resp: 1245786

Ion Ratio Lower Upper

228 100

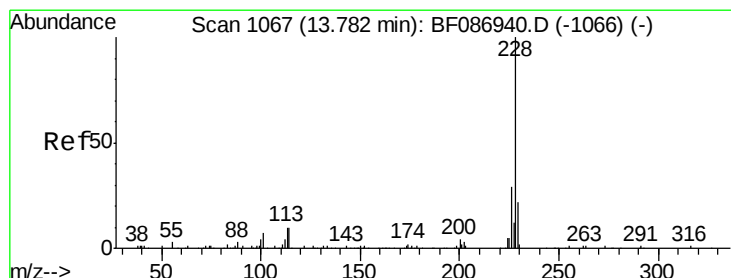
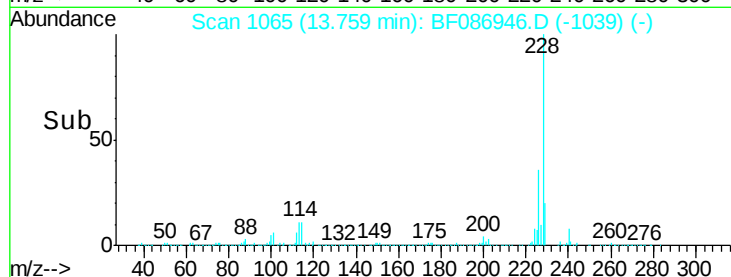
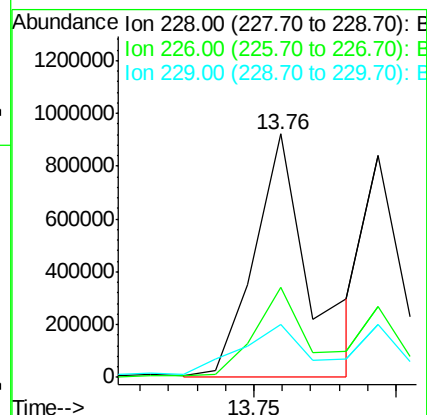
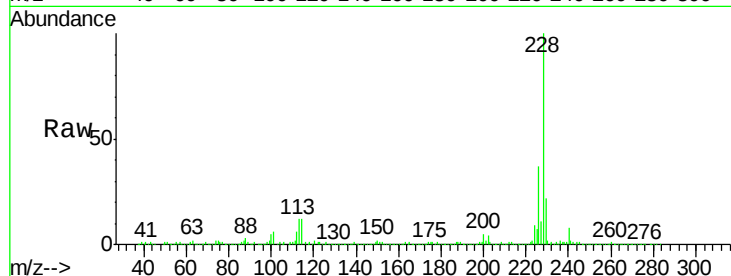
226 36.8 22.5 33.7#

229 21.6 16.6 25.0

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#82

Chrysene

Concen: 47.03 ng

RT: 13.79 min Scan# 1068

Delta R.T. -0.00 min

Lab File: BF086946.D

Acq: 12 May 2016 22:49

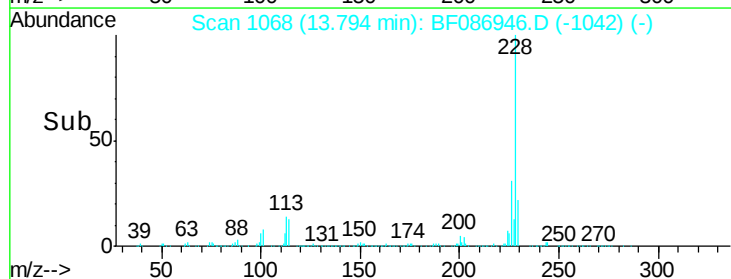
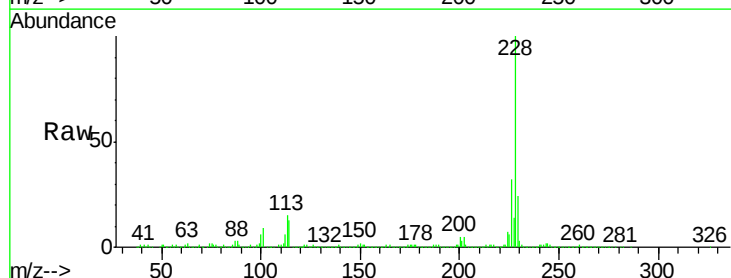
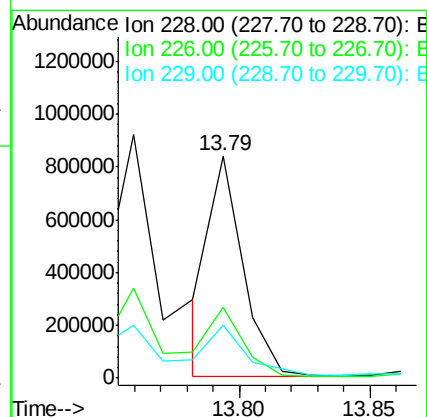
Tgt Ion:228 Resp: 746924

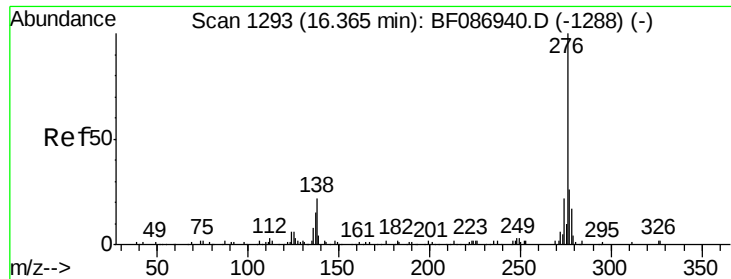
Ion Ratio Lower Upper

228 100

226 32.0 24.4 36.6

229 23.6 15.8 23.8





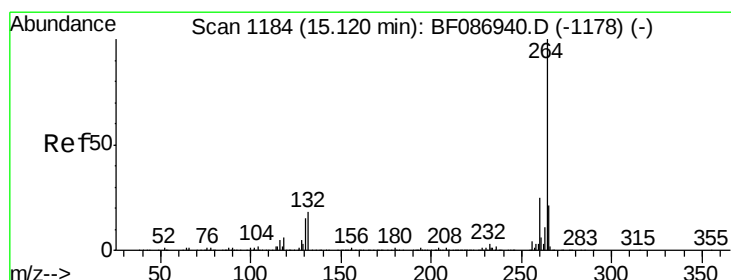
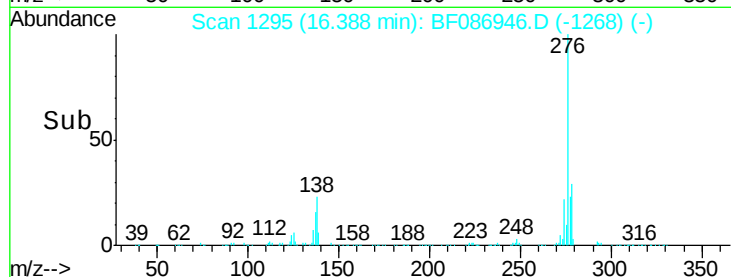
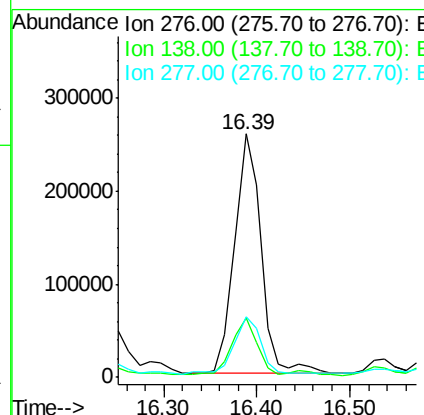
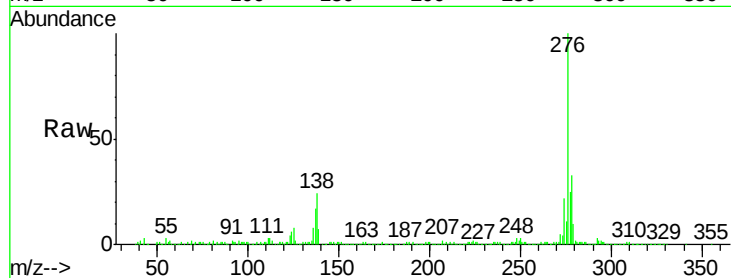
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 38.82 ng
 RT: 16.39 min Scan# 1295
 Delta R.T. 0.01 min
 Lab File: BF086946.D
 Acq: 12 May 2016 22:49

Instrument :
 BNA_F
 ClientSampleId :
 PM-STA-1335-00(0-3)

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	513062		
138	22.5	25.6	38.4#	
277	24.3	20.5	30.7	

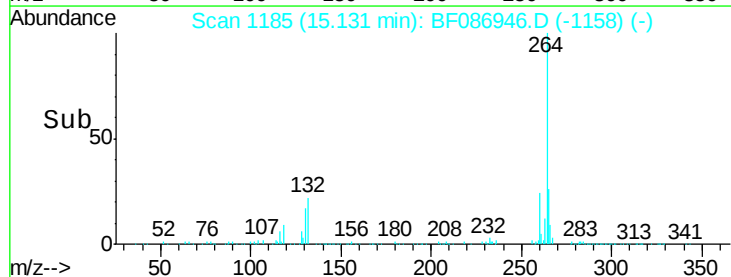
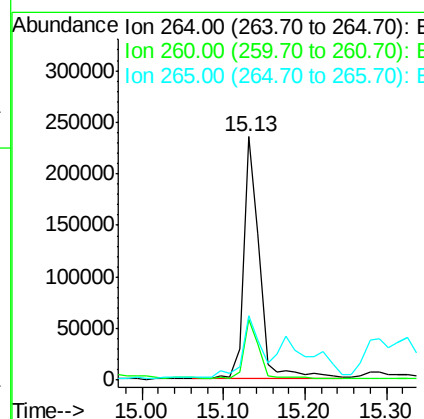
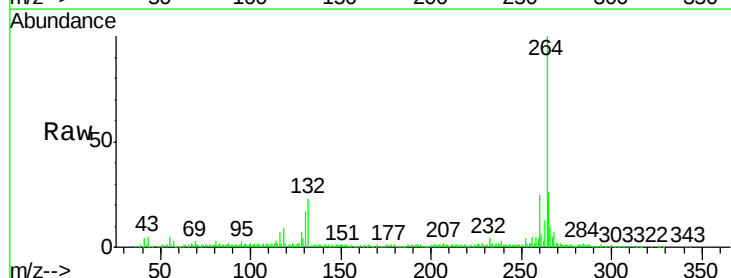
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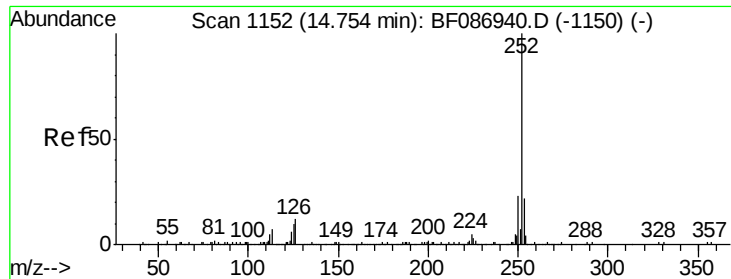
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.13 min Scan# 1185
 Delta R.T. 0.01 min
 Lab File: BF086946.D
 Acq: 12 May 2016 22:49

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	318538		
260	24.9	19.5	29.3	
265	26.4	17.3	25.9#	





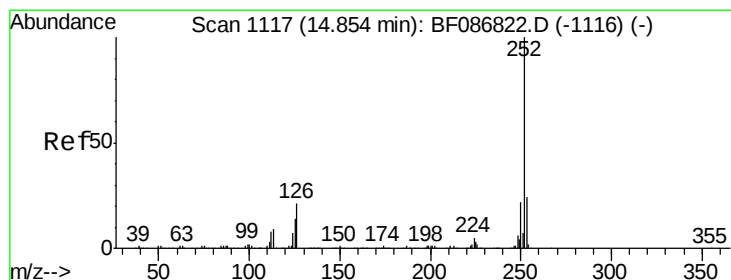
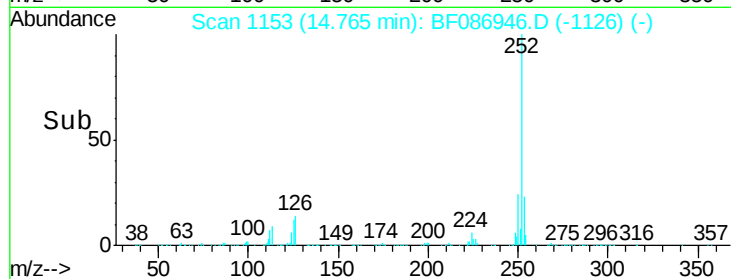
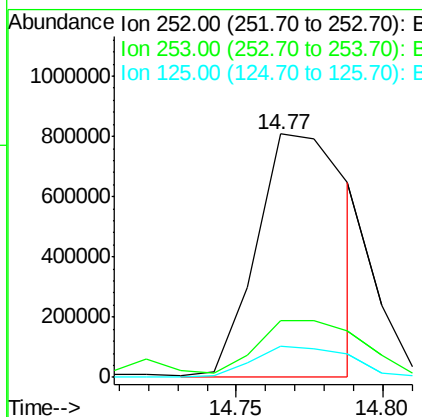
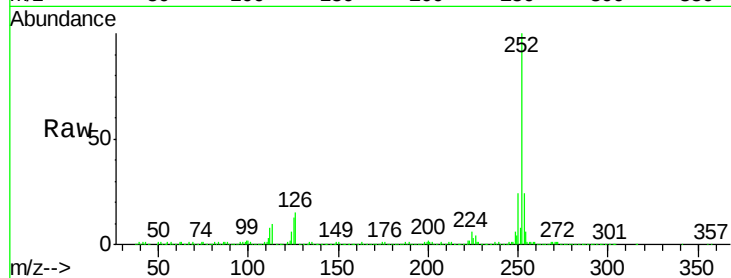
#87
Benzo(b)fluoranthene
Concen: 85.04 ng m
RT: 14.77 min Scan# 1153
Delta R.T. 0.01 min
Lab File: BF086946.D
Acq: 12 May 2016 22:49

Instrument :
BNA_F
ClientSampleId :
PM-STA-1335-00(0-3)

Tgt Ion:252 Resp: 1760432
Ion Ratio Lower Upper
252 100
253 23.5 17.8 26.6
125 12.6 11.4 17.0

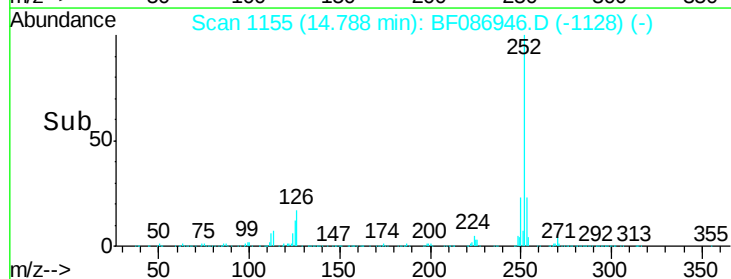
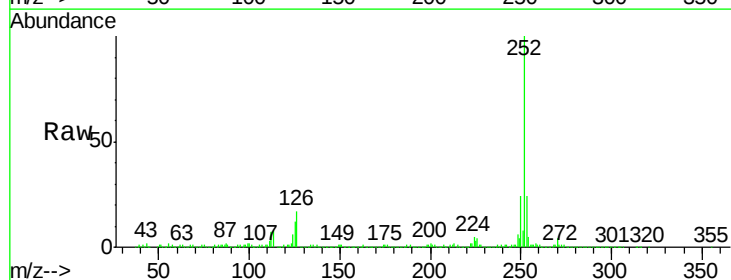
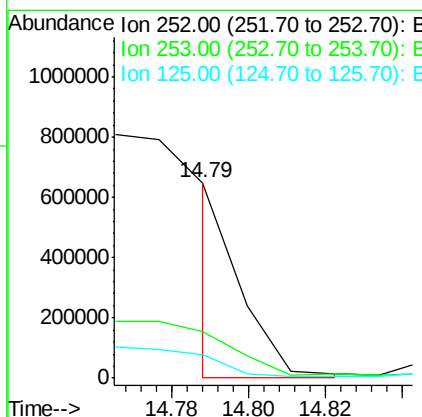
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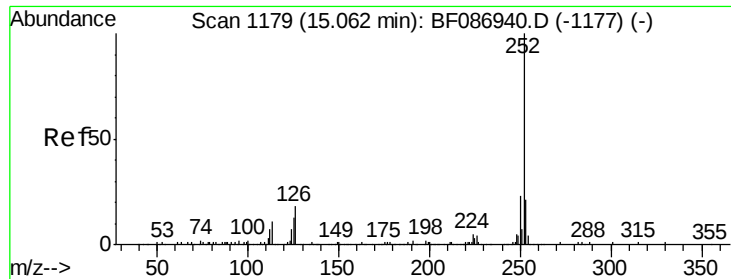
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#88
Benzo(k)fluoranthene
Concen: 11.22 ng m
RT: 14.79 min Scan# 1155
Delta R.T. 0.01 min
Lab File: BF086946.D
Acq: 12 May 2016 22:49

Tgt Ion:252 Resp: 190229
Ion Ratio Lower Upper
252 100
253 24.0 17.8 26.6
125 12.2 9.1 13.7





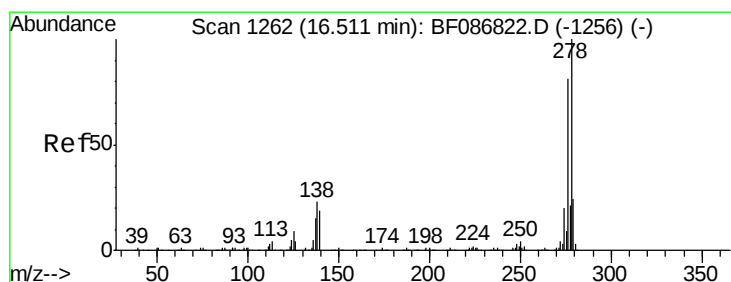
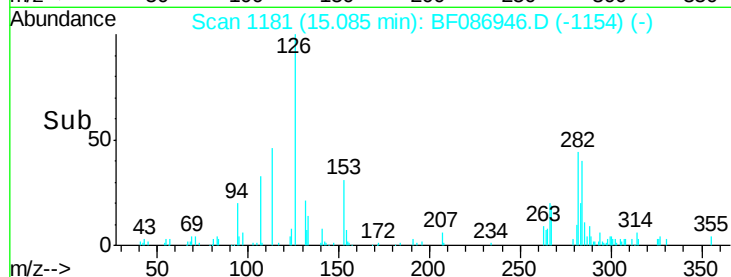
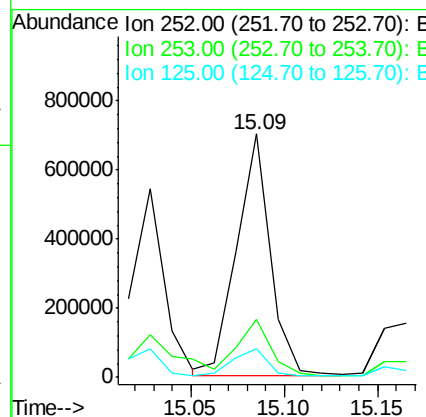
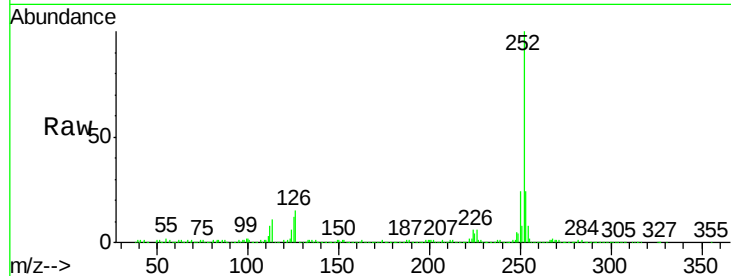
#89
Benzo(a)pyrene
Concen: 48.95 ng
RT: 15.09 min Scan# 1181
Delta R.T. 0.01 min
Lab File: BF086946.D
Acq: 12 May 2016 22:49

Instrument :
BNA_F
ClientSampleId :
PM-STA-1335-00(0-3)

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	874019		
253	24.0	17.2	25.8	
125	11.8	9.0	13.6	

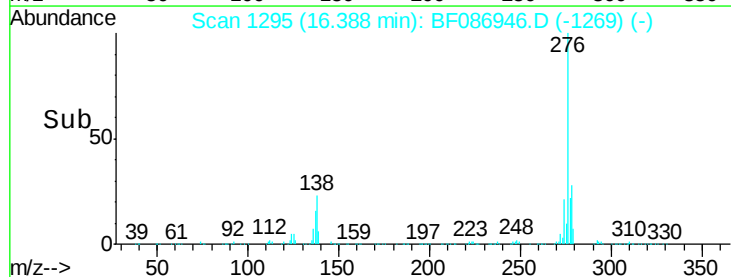
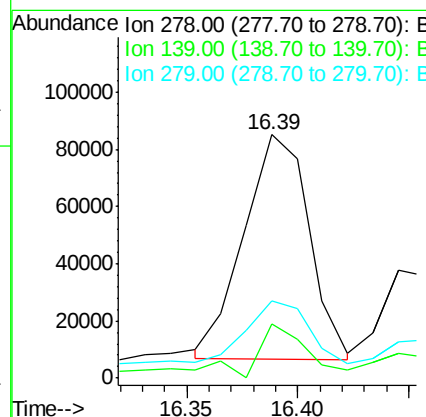
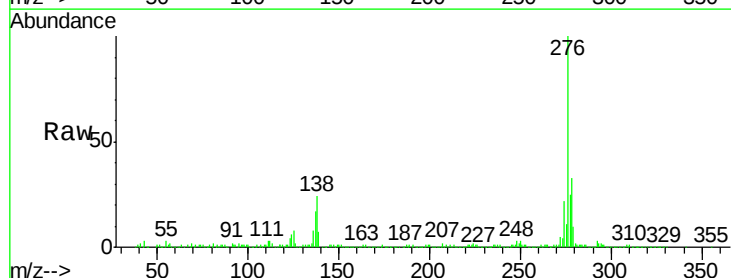
Manual Integrations
APPROVED

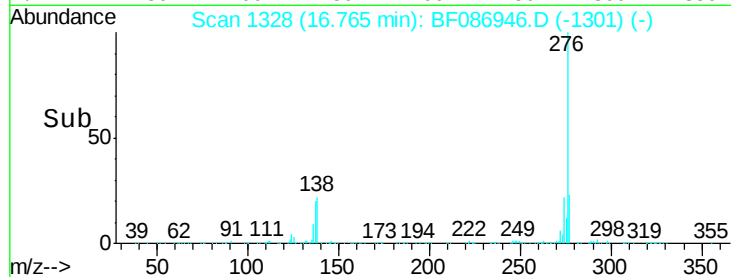
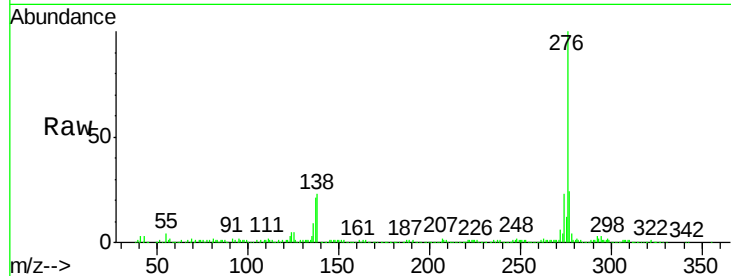
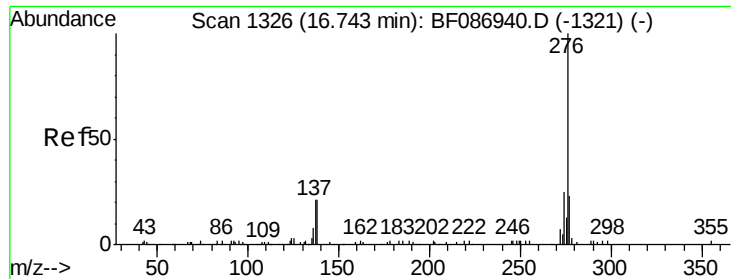
sohil
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#90
Dibenzo(a,h)anthracene
Concen: 10.67 ng m
RT: 16.39 min Scan# 1295
Delta R.T. 0.00 min
Lab File: BF086946.D
Acq: 12 May 2016 22:49

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	160551		
139	22.5	16.6	24.8	
279	31.5	19.6	29.4	





#91

Benzo(g,h,i)perylene

Concen: 25.65 ng

RT: 16.77 min Scan# 1328

Delta R.T. 0.01 min

Lab File: BF086946.D

Acq: 12 May 2016 22:49

Instrument :

BNA_F

ClientSampleId :

PM-STA-1335-00(0-3)

Tgt Ion:	276	Resp:	392156
Ion Ratio		Lower	Upper
276	100		
277	24.2	19.6	29.4
138	23.5	23.6	35.4#

Manual Integrations
APPROVED

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