

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041816\
 Data File : BF086290.D
 Acq On : 18 Apr 2016 19:08
 Operator : UM/SJ
 Sample : H2413-09
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-2-I-9(0-2)

Manual Integrations
 APPROVED

Sohil
 4/19/2016 6:23:12 PM

Quant Time: Apr 19 02:13:54 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 15 15:56:31 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	294908	20.00	ng	-0.01
21) Naphthalene-d8	8.17	136	1049506	20.00	ng	-0.01
38) Acenaphthene-d10	9.93	164	427984	20.00	ng	-0.01
63) Phenanthrene-d10	11.41	188	651979	20.00	ng	0.00
75) Chrysene-d12	14.04	240	430481	20.00	ng	-0.01
86) Perylene-d12	15.48	264	359014	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	2169381	120.53	ng	0.01
7) Phenol-d6	6.52	99	2618210	116.29	ng	0.00
23) Nitrobenzene-d5	7.46	82	2073248	113.94	ng	0.00
41) 2,4,6-Tribromophenol	10.72	330	397912	115.78	ng	-0.01
44) 2-Fluorobiphenyl	9.25	172	2137870	92.18	ng	-0.01
78) Terphenyl-d14	13.00	244	1643279	95.99	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.19	128	196712	4.20	ng	97
37) 2-Methylnaphthalene	8.89	142	108503	3.58	ng	98
49) Dimethylphthalate	9.64	163	599564	19.27	ng	99
51) Acenaphthene	9.96	154	120818	5.05	ng	98
54) Dibenzofuran	10.13	168	86940	2.75	ng	# 95
57) Fluorene	10.48	166	137421	2.91	ng	98
70) Phenanthrene	11.44	178	1226707	39.39	ng	99
71) Anthracene	11.48	178	407552	10.08	ng	97
72) Carbazole	11.63	167	122891	4.15	ng	99
74) Fluoranthene	12.63	202	1546988	59.53	ng	97
77) Pyrene	12.85	202	1539146	46.60	ng	99
80) Benzo(a)anthracene	14.03	228	811538	34.34	ng	96
82) Chrysene	14.08	228	637953	25.32	ng	96
85) Indeno(1,2,3-cd)pyrene	16.90	276	285086	13.76	ng	95
87) Benzo(b)fluoranthene	15.07	252	663999m	29.98	ng	
88) Benzo(k)fluoranthene	15.08	252	282848m	14.01	ng	
89) Benzo(a)pyrene	15.43	252	493577	25.73	ng	98
90) Dibenzo(a,h)anthracene	16.91	278	72553	4.28	ng	# 85
91) Benzo(a,h,i)perylene	17.32	276	282687	15.68	ng	# 95

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

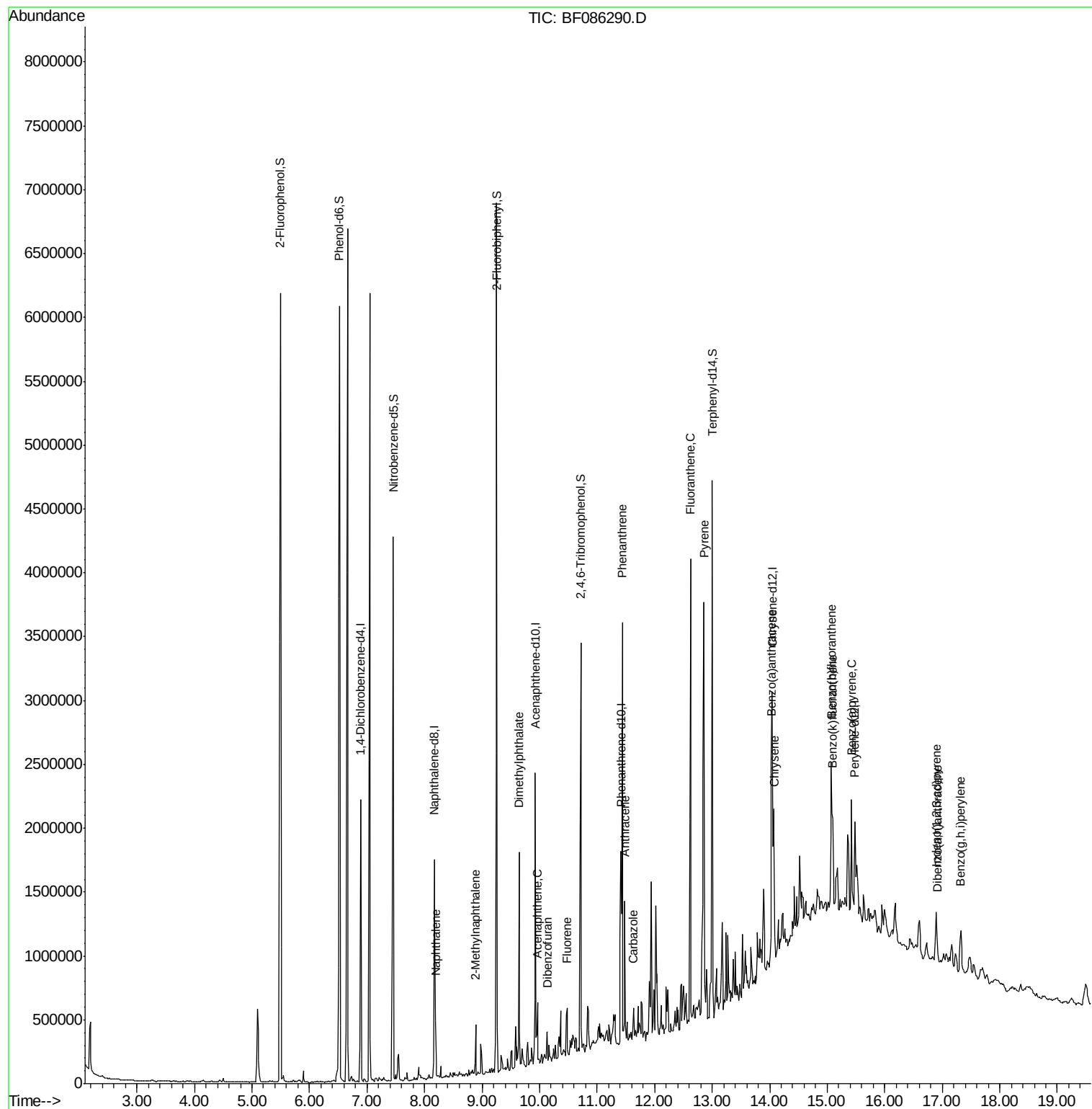
Data Path : Z:\HPCHEM1\BNA F\DATA\BF041816\
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ALS Vial : 13 Sample Multiplier: 1

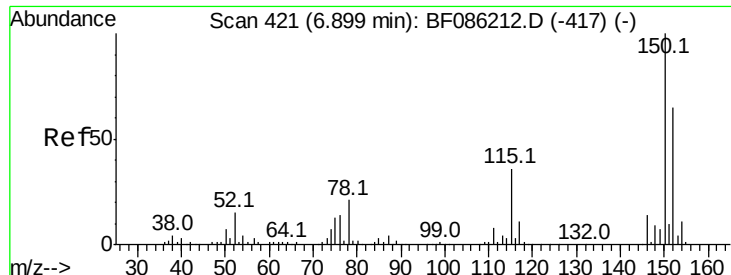
Instrument :
BNA_F
ClientSampled :
SP-2-I-9(0-2)

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#1

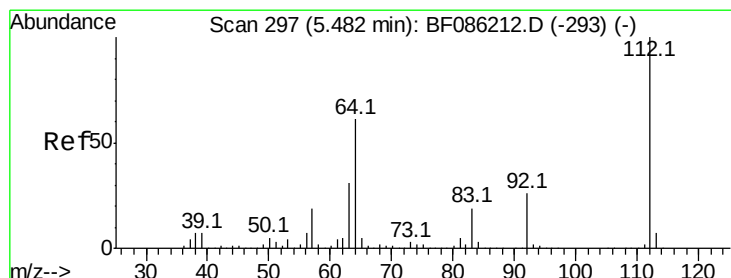
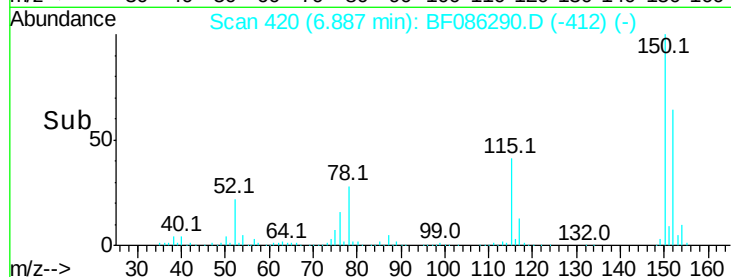
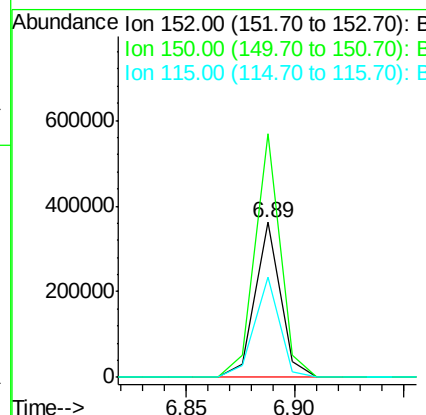
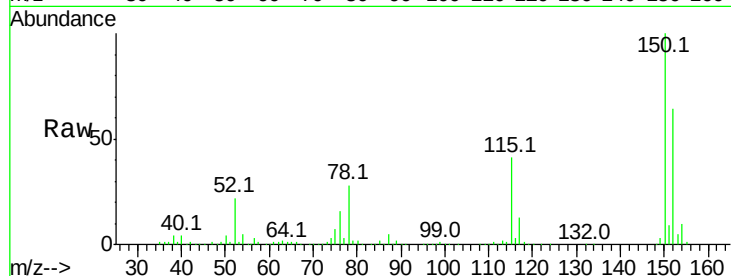
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.89 min Scan# 420
Delta R.T. -0.01 min
Lab File: BF086290.D
Acq: 18 Apr 2016 19:08

Instrument :
BNA_F
ClientSampleId :
SP-2-I-9(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
152	100	294908		
150	156.9	124.1	186.1	
115	64.6	43.9	65.9	

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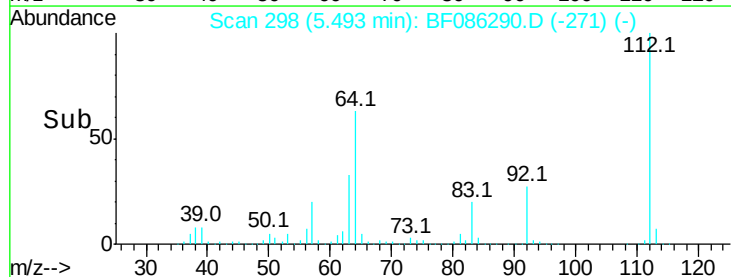
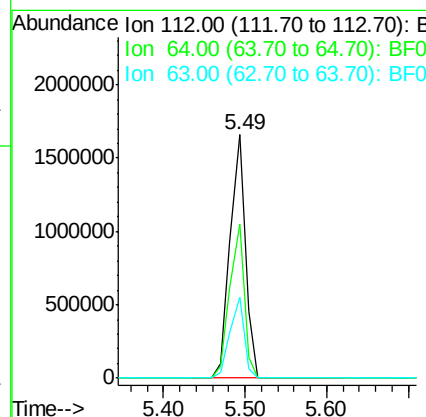
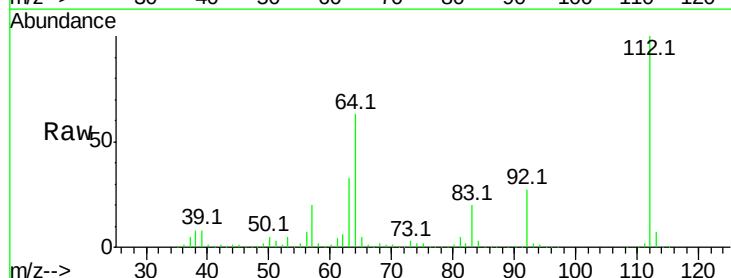
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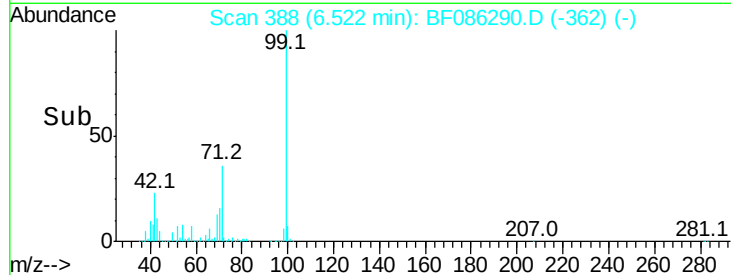
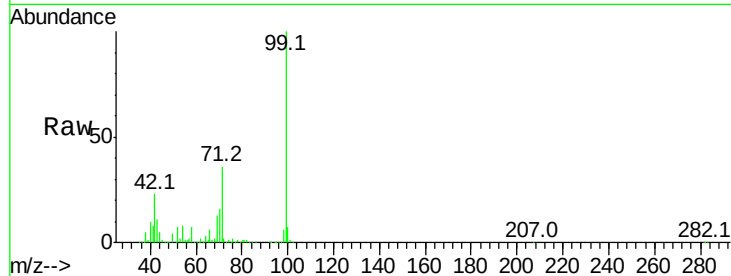
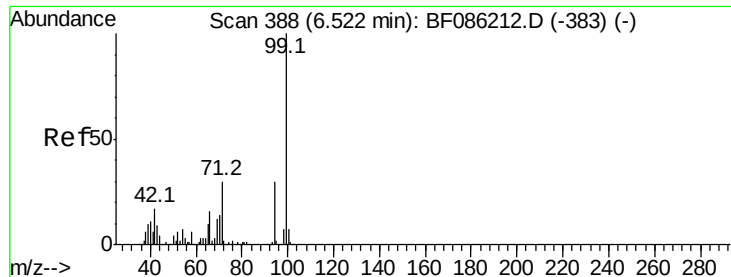


#5

2-Fluorophenol
Concen: 120.53 ng
RT: 5.49 min Scan# 298
Delta R.T. 0.01 min
Lab File: BF086290.D
Acq: 18 Apr 2016 19:08

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	2169381		
64	63.4	48.1	72.1	
63	33.1	25.5	38.3	





#7

Phenol-d6

Concen: 116.29 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.00 min

Lab File: BF086290.D

Acq: 18 Apr 2016 19:08

Tot Ion: 99 Resp: 2618210

Ion Ratio Lower Upper

99 100

42 22.8 15.4 23.2

71 35.6 25.6 38.4

Instrument :

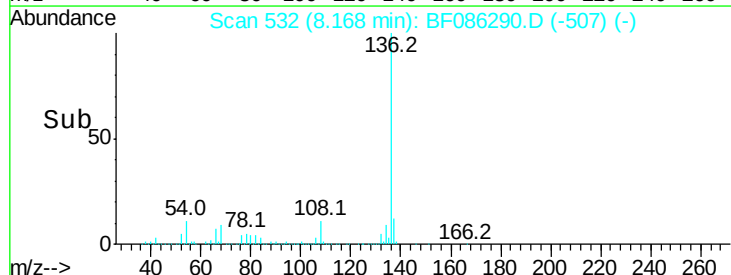
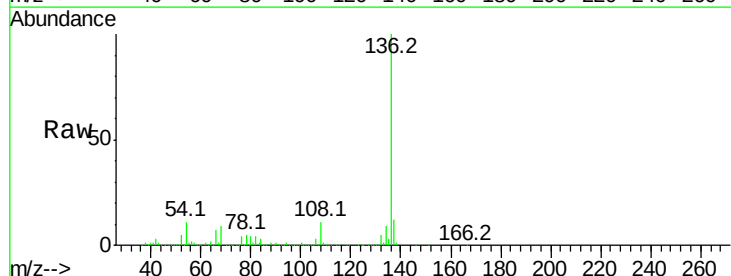
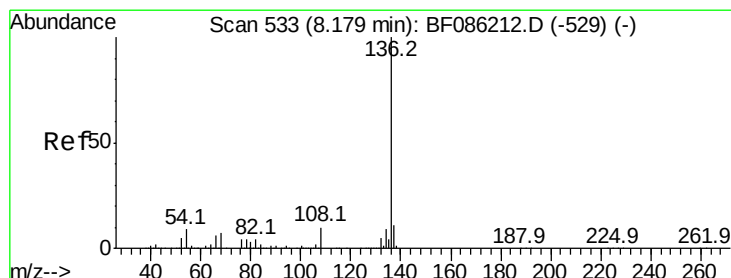
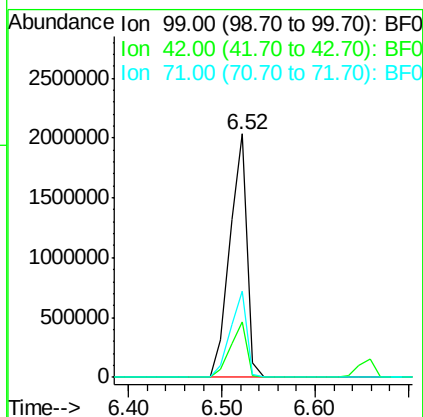
BNA_F

ClientSampleId :

SP-2-I-9(0-2)

Manual Integrations
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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.17 min Scan# 532

Delta R.T. -0.01 min

Lab File: BF086290.D

Acq: 18 Apr 2016 19:08

Tgt Ion: 136 Resp: 1049506

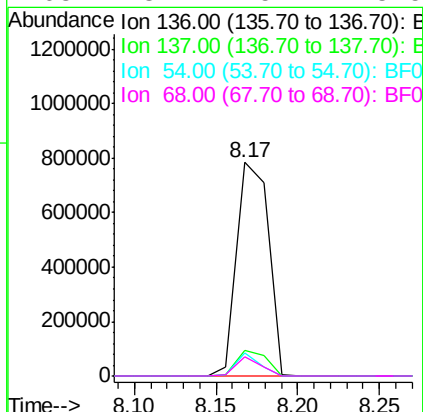
Ion Ratio Lower Upper

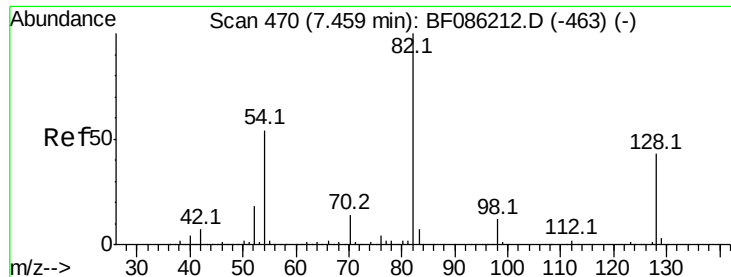
136 100

137 11.8 9.1 13.7

54 10.6 7.3 10.9

68 8.7 5.7 8.5#





#23
 Nitrobenzene-d5
 Concen: 113.94 ng
 RT: 7.46 min Scan# 470
 Delta R.T. -0.00 min
 Lab File: BF086290.D
 Acq: 18 Apr 2016 19:08

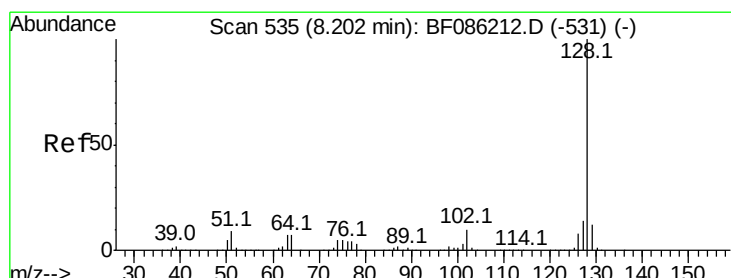
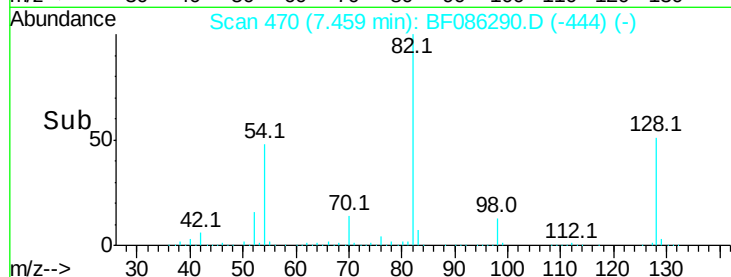
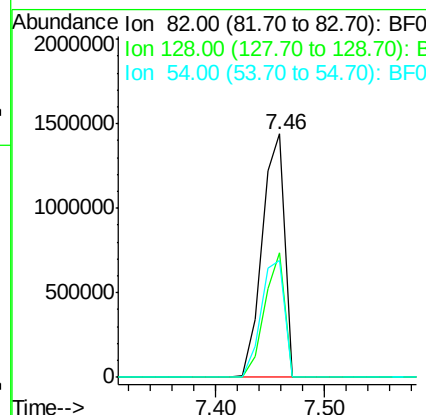
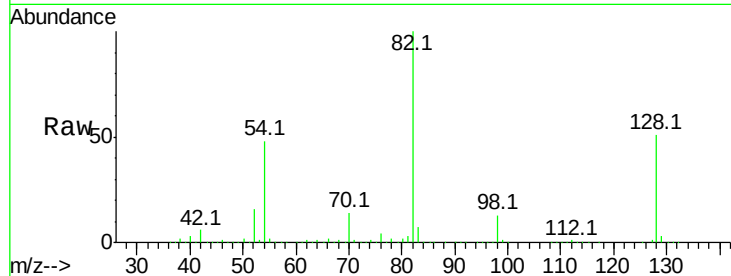
Instrument :
 BNA_F
 ClientSampleId :
 SP-2-I-9(0-2)

Tot Ion: 82 Resp: 2073248

Ion	Ratio	Lower	Upper
82	100		
128	51.0	35.4	53.2
54	48.1	43.4	65.0

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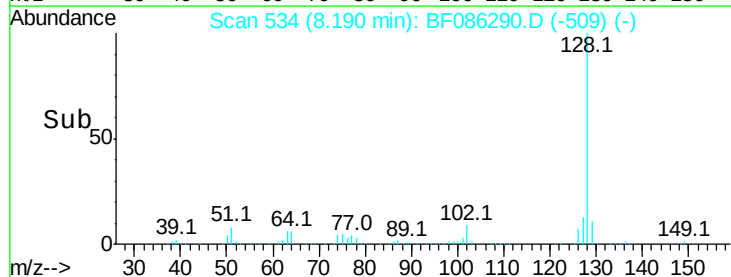
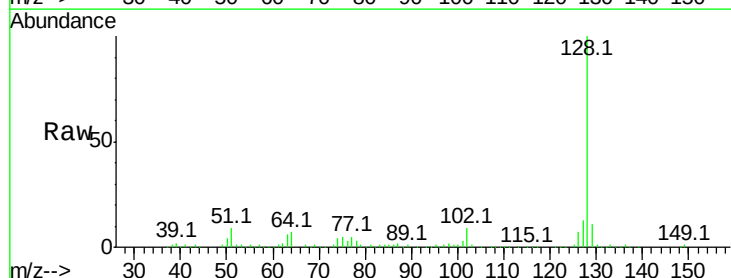
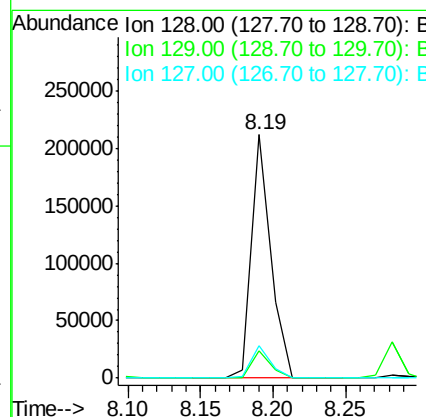
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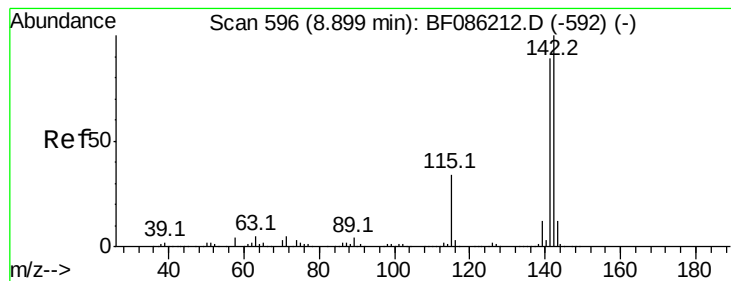


#31
 Naphthalene
 Concen: 4.20 ng
 RT: 8.19 min Scan# 534
 Delta R.T. -0.01 min
 Lab File: BF086290.D
 Acq: 18 Apr 2016 19:08

Tgt Ion: 128 Resp: 196712

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.6	14.4
127	13.2	11.4	17.2





#37

2-Methylnaphthalene

Concen: 3.58 ng

RT: 8.89 min Scan# 595

Delta R.T. -0.01 min

Lab File: BF086290.D

Acq: 18 Apr 2016 19:08

Instrument :

BNA_F

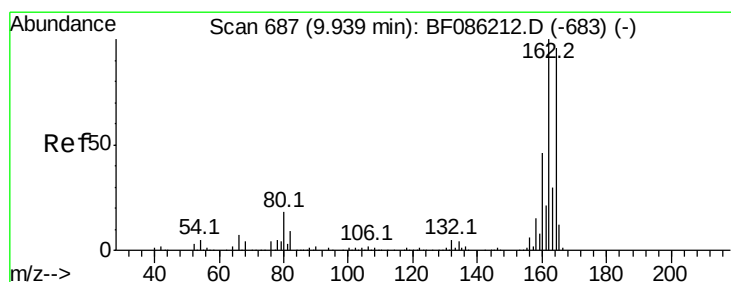
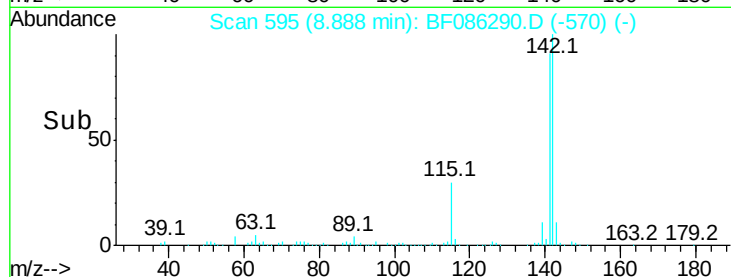
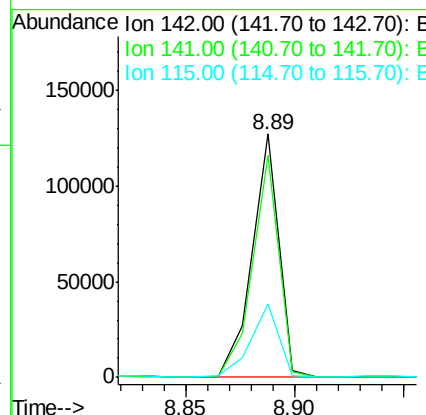
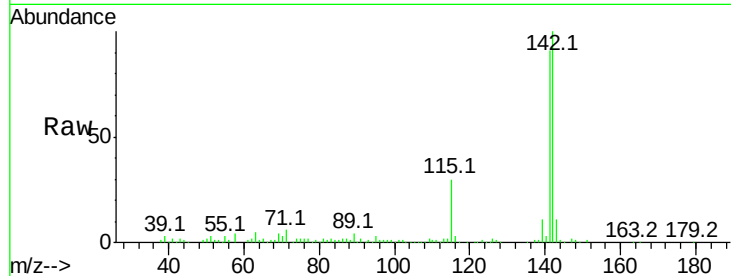
ClientSampled :

SP-2-I-9(0-2)

Tot Ion:	142	Resp:	108503
Ion Ratio	Lower	Upper	
142	100		
141	90.9	71.1	106.7
115	30.4	25.1	37.7

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#38

Acenaphthene-d10

Concen: 20.00 ng

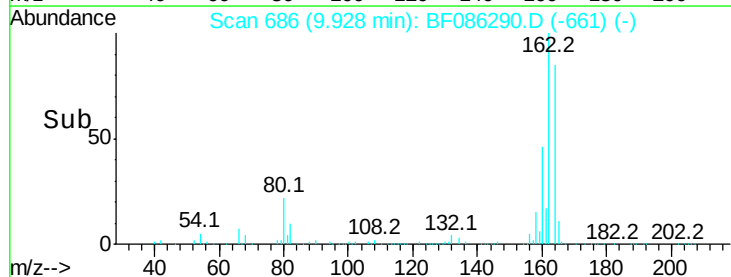
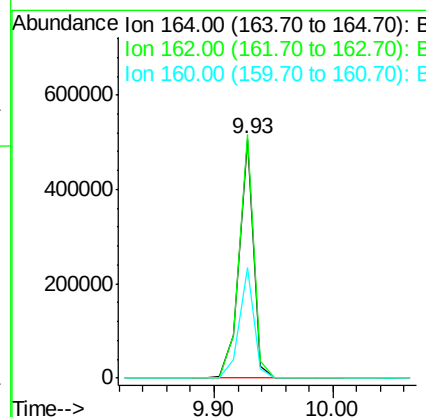
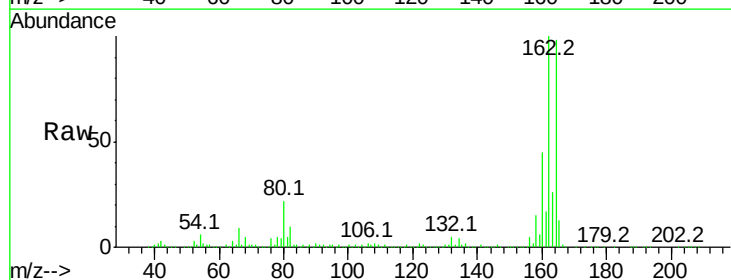
RT: 9.93 min Scan# 686

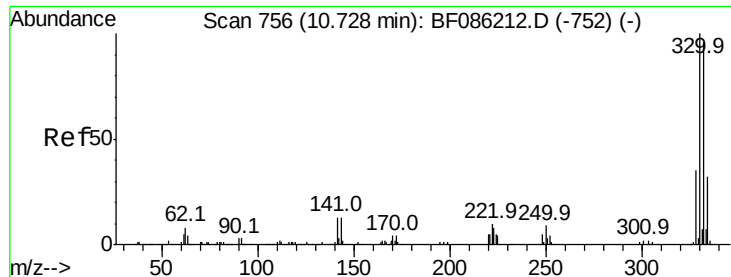
Delta R.T. -0.01 min

Lab File: BF086290.D

Acq: 18 Apr 2016 19:08

Tgt Ion:	164	Resp:	427984
Ion Ratio	Lower	Upper	
164	100		
162	101.9	82.8	124.2
160	46.0	38.9	58.3





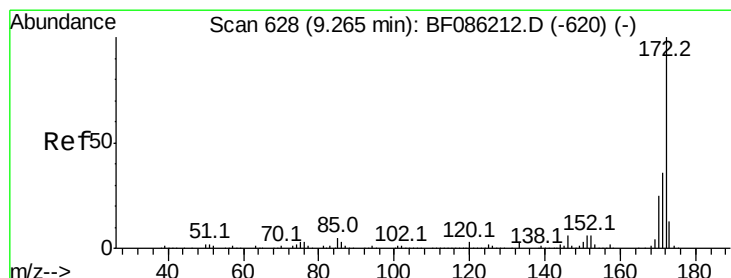
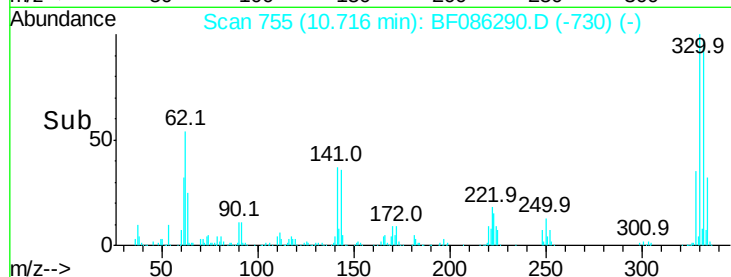
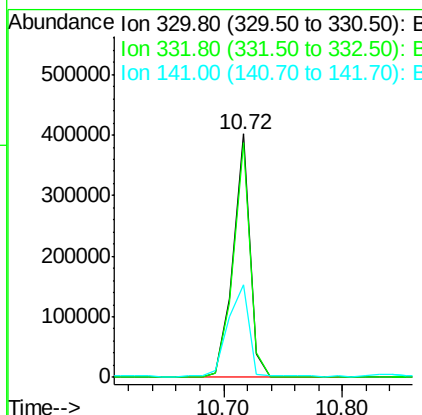
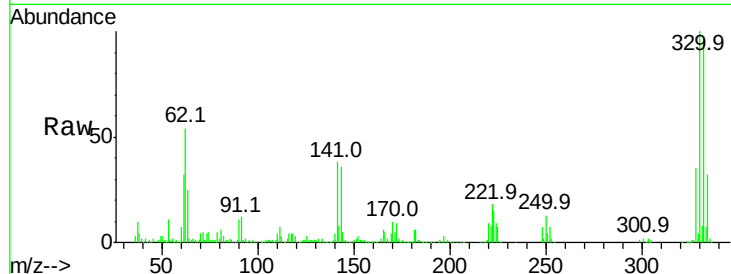
#41
 2,4,6-Tribromophenol
 Concen: 115.78 ng
 RT: 10.72 min Scan# 755
 Delta R.T. -0.01 min
 Lab File: BF086290.D
 Acq: 18 Apr 2016 19:08

Instrument :
 BNA_F
 ClientSampled :
 SP-2-I-9(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	397912		
332	97.1	78.7	118.1	
141	45.7	28.6	42.8#	

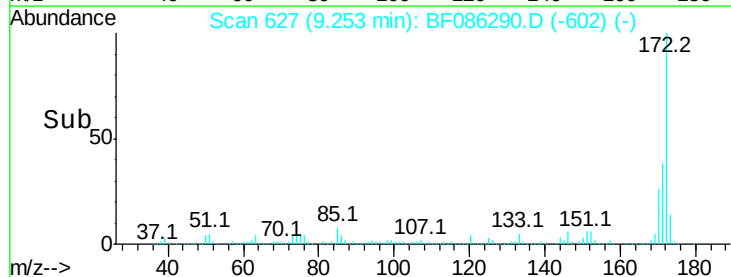
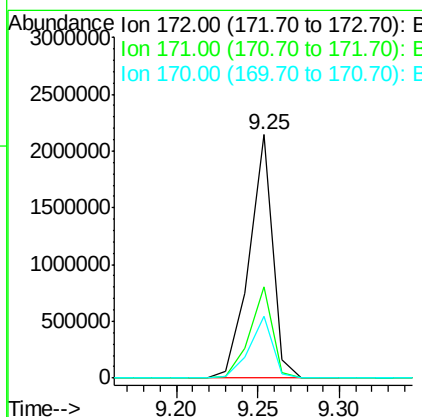
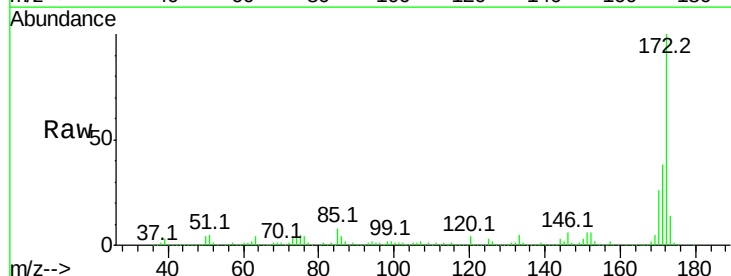
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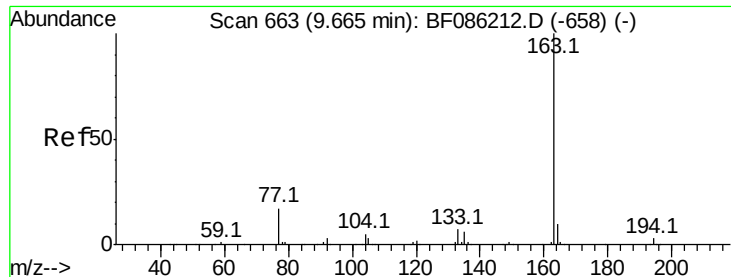
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#44
 2-Fluorobiphenyl
 Concen: 92.18 ng
 RT: 9.25 min Scan# 627
 Delta R.T. -0.01 min
 Lab File: BF086290.D
 Acq: 18 Apr 2016 19:08

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	2137870		
171	37.6	29.1	43.7	
170	25.5	19.9	29.9	





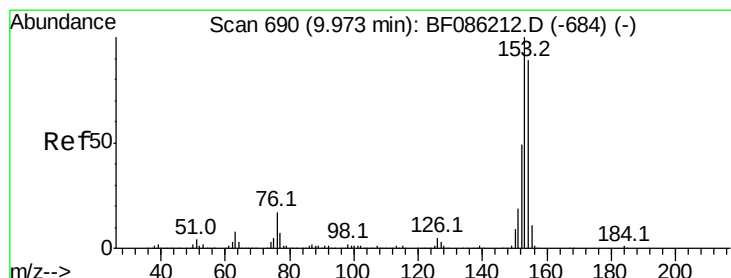
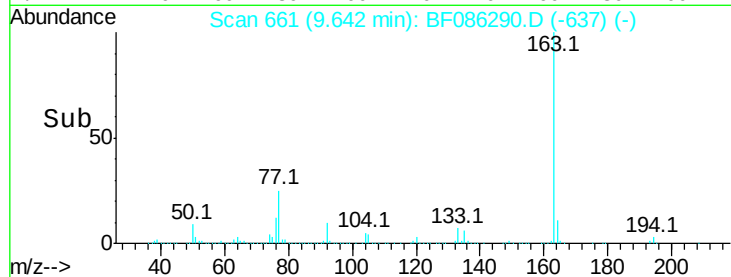
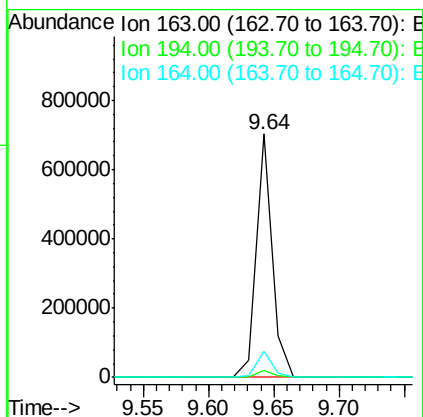
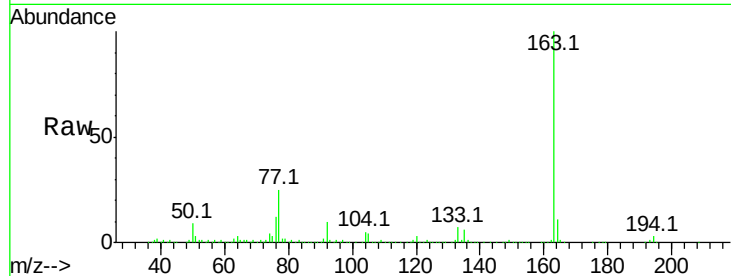
#49
Dimethylphthalate
Concen: 19.27 ng
RT: 9.64 min Scan# 661
Delta R.T. -0.02 min
Lab File: BF086290.D
Acq: 18 Apr 2016 19:08

Instrument :
BNA_F
ClientSampleId :
SP-2-I-9(0-2)

Tot Ion:	163	Resp:	599564
Ion Ratio	Lower	Upper	
163	100		
194	3.1	2.8	4.2
164	10.6	8.4	12.6

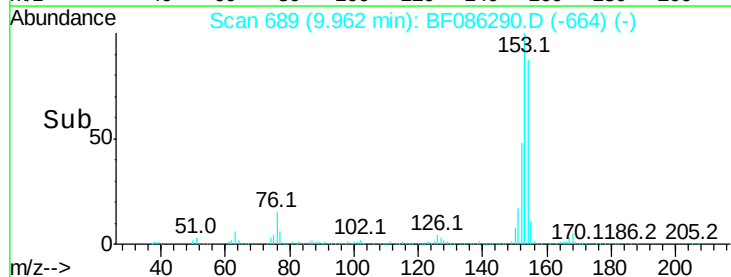
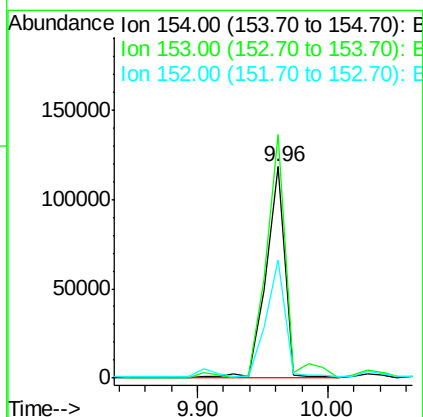
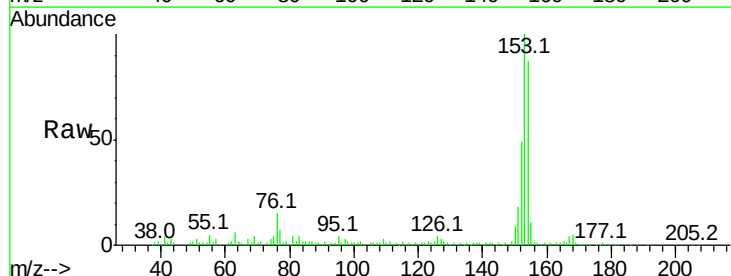
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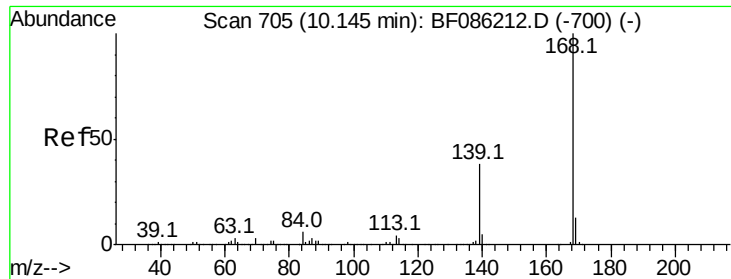
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#51
Acenaphthene
Concen: 5.05 ng
RT: 9.96 min Scan# 689
Delta R.T. -0.01 min
Lab File: BF086290.D
Acq: 18 Apr 2016 19:08

Tgt Ion:	154	Resp:	120818
Ion Ratio	Lower	Upper	
154	100		
153	115.3	90.0	135.0
152	56.0	44.3	66.5





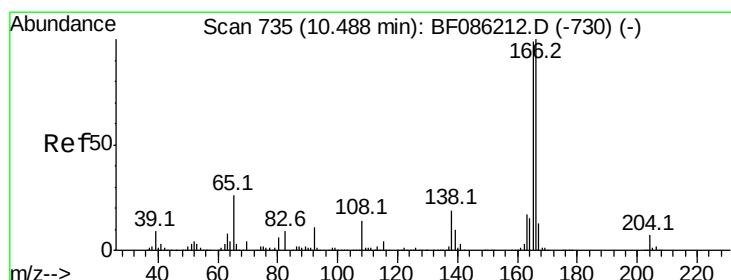
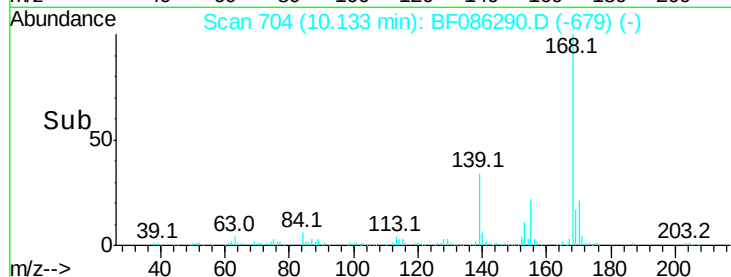
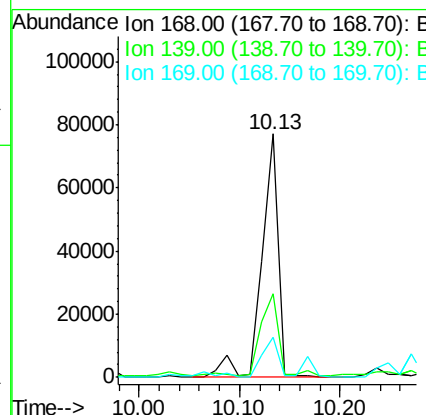
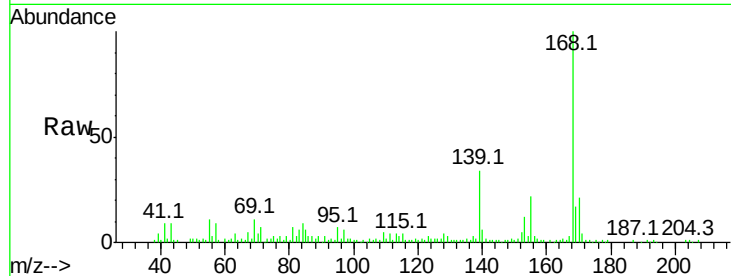
#54
Dibenzofuran
Concen: 2.75 ng
RT: 10.13 min Scan# 704
Delta R.T. -0.01 min
Lab File: BF086290.D
Acq: 18 Apr 2016 19:08

Instrument :
BNA_F
ClientSampled :
SP-2-I-9(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
168	100			
139	34.5	29.5	44.3	
169	16.7	10.6	16.0	

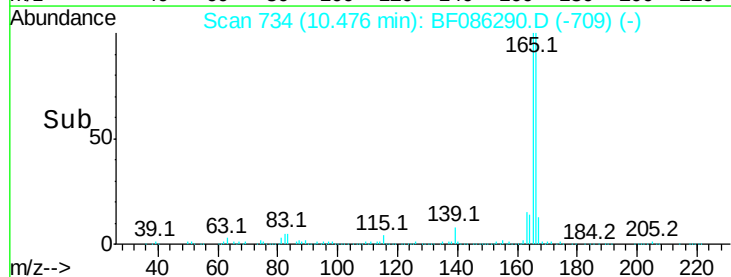
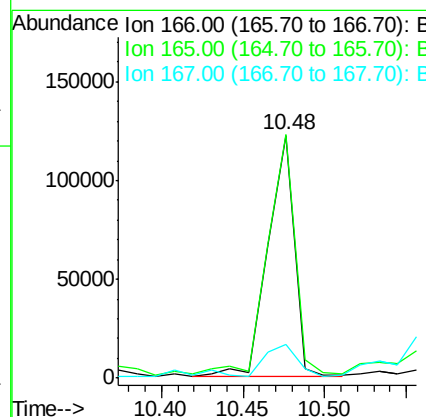
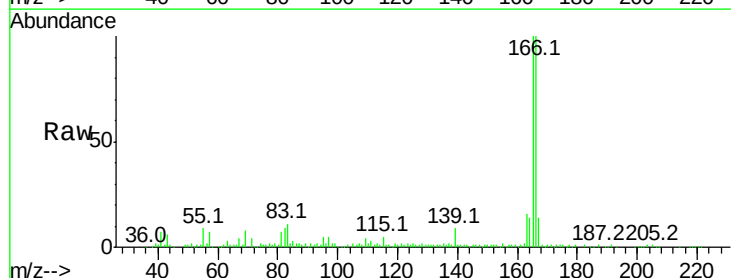
Manual Integrations
APPROVED

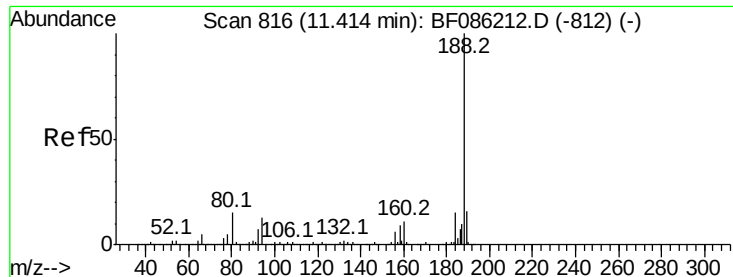
Sohil
4/19/2016 6:23:12 PM



#57
Fluorene
Concen: 2.91 ng
RT: 10.48 min Scan# 734
Delta R.T. -0.01 min
Lab File: BF086290.D
Acq: 18 Apr 2016 19:08

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	100.3	78.6	117.8	
167	13.9	10.4	15.6	





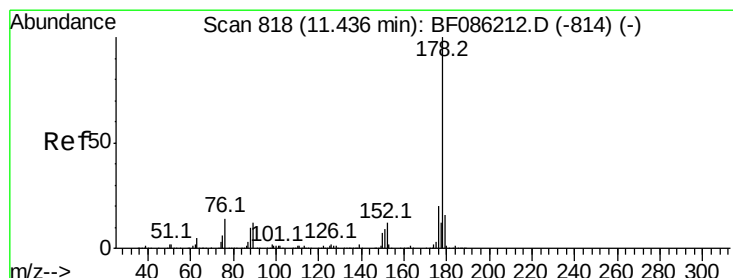
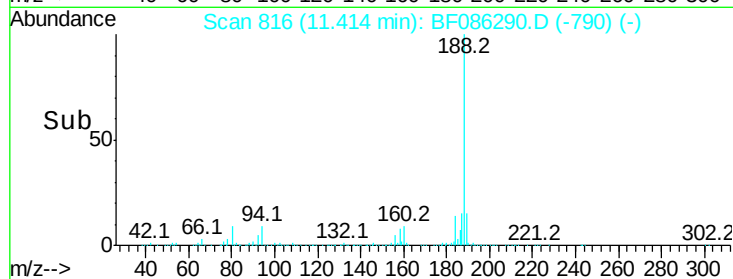
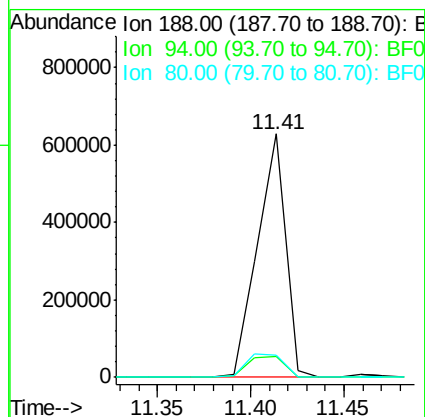
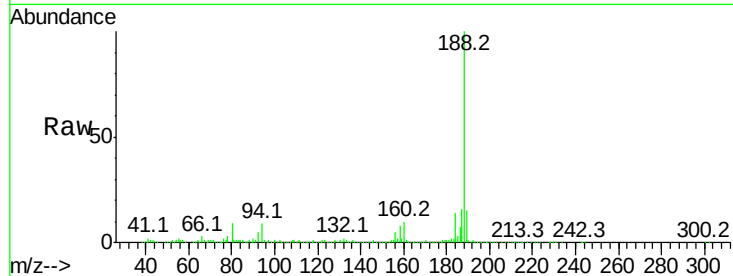
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.41 min Scan# 816
Delta R.T. -0.00 min
Lab File: BF086290.D
Acq: 18 Apr 2016 19:08

Instrument :
BNA_F
ClientSampled :
SP-2-I-9(0-2)

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	8.8	9.8	14.8#
80	9.2	10.5	15.7#

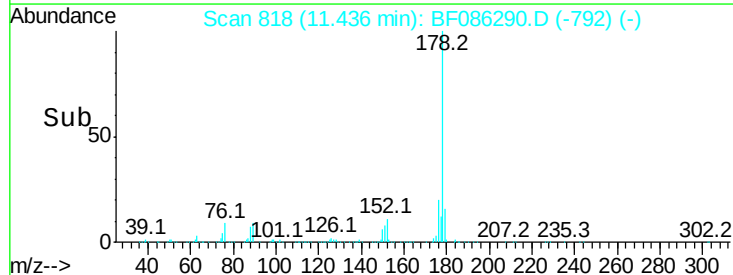
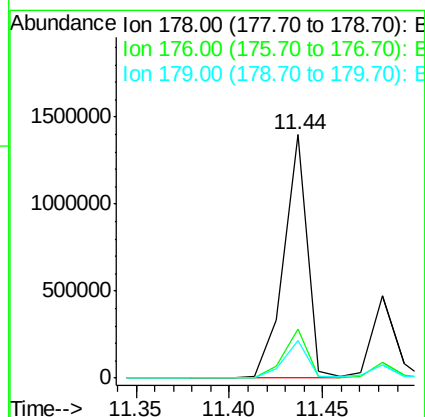
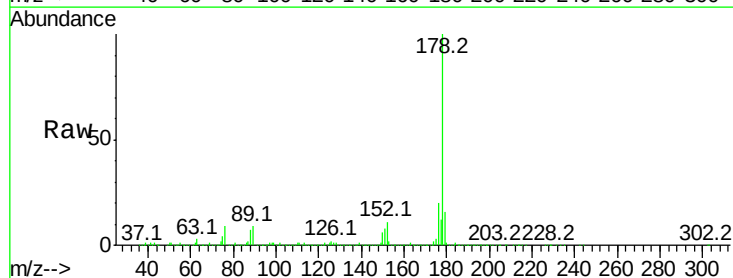
Manual Integrations
APPROVED

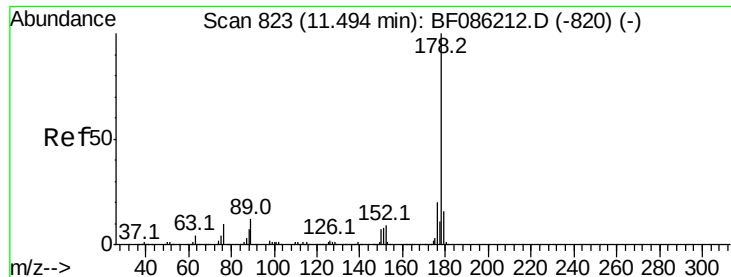
Sohil
4/19/2016 6:23:12 PM



#70
Phenanthrene
Concen: 39.39 ng
RT: 11.44 min Scan# 818
Delta R.T. 0.00 min
Lab File: BF086290.D
Acq: 18 Apr 2016 19:08

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	20.0	16.3	24.5
179	15.7	13.0	19.6





#71

Anthracene

Concen: 10.08 ng

RT: 11.48 min Scan# 822

Delta R.T. -0.01 min

Lab File: BF086290.D

Acq: 18 Apr 2016 19:08

Instrument :

BNA_F

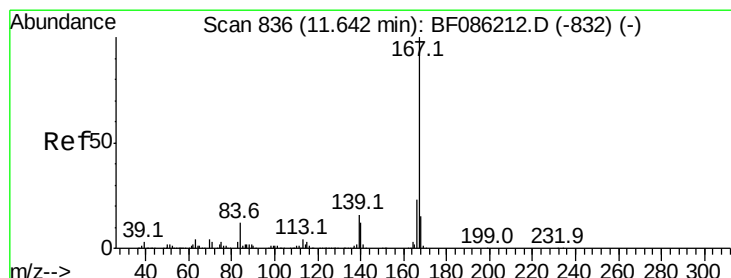
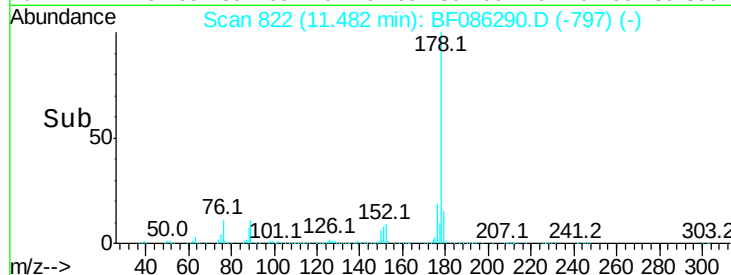
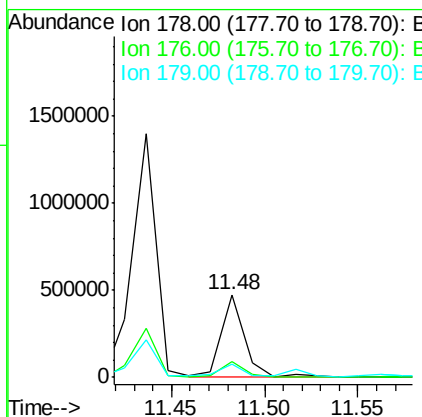
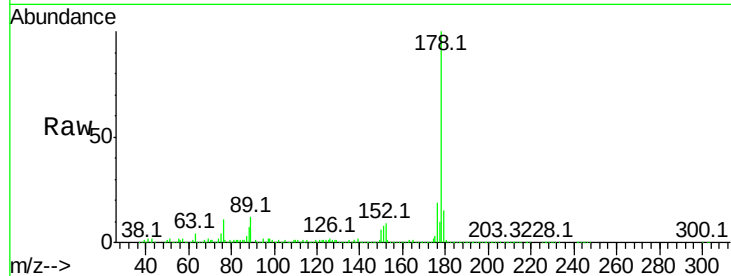
ClientSampleId :

SP-2-I-9(0-2)

Tot Ion:	178	Resp:	407552
Ion Ratio	Lower	Upper	
178	100		
176	19.0	16.2	24.4
179	15.4	13.2	19.8

Manual Integrations
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#72

Carbazole

Concen: 4.15 ng

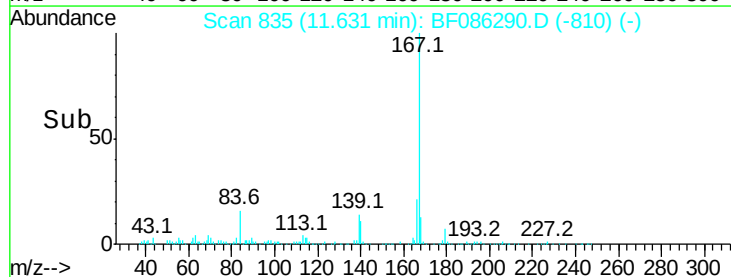
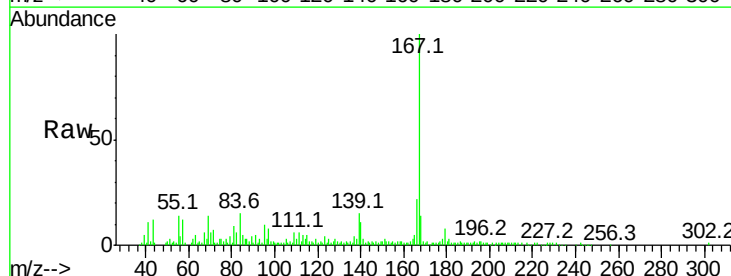
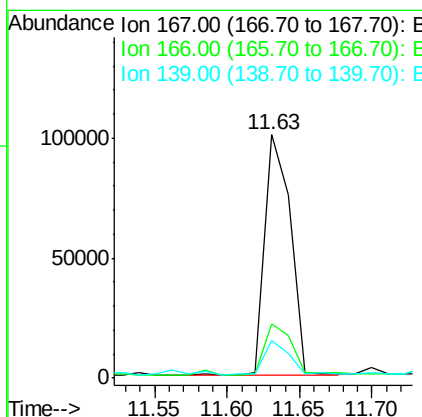
RT: 11.63 min Scan# 835

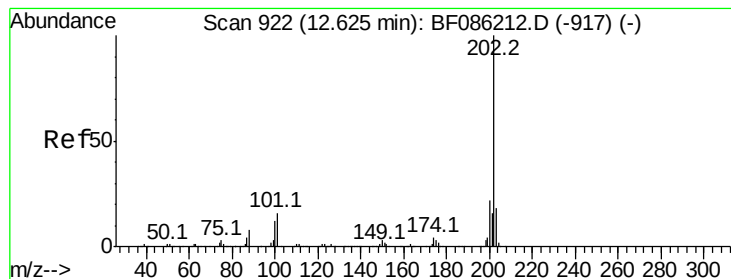
Delta R.T. -0.01 min

Lab File: BF086290.D

Acq: 18 Apr 2016 19:08

Tgt Ion:	167	Resp:	122891
Ion Ratio	Lower	Upper	
167	100		
166	22.3	18.3	27.5
139	15.4	12.3	18.5





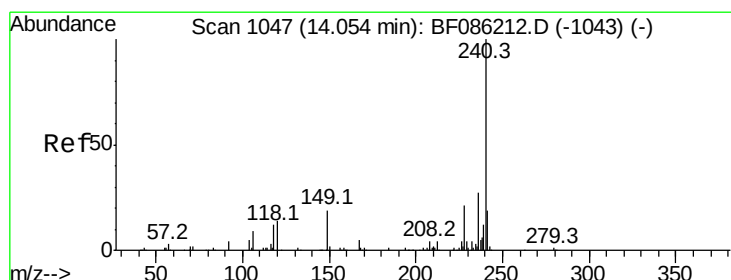
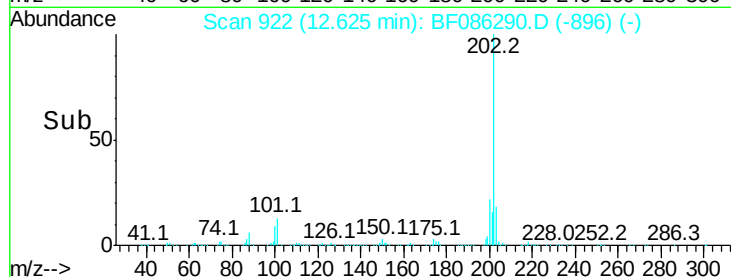
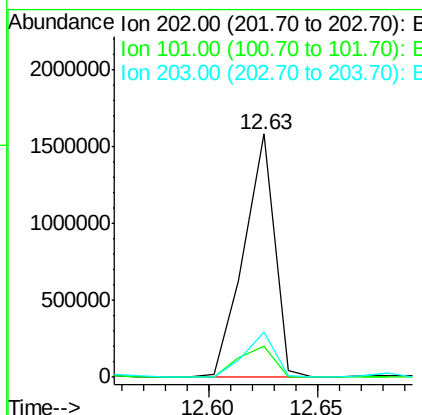
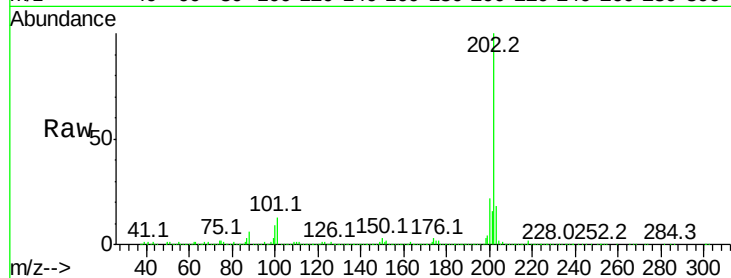
#74
 Fluoranthene
 Concen: 59.53 ng
 RT: 12.63 min Scan# 922
 Delta R.T. 0.00 min
 Lab File: BF086290.D
 Acq: 18 Apr 2016 19:08

Instrument :
 BNA_F
 ClientSampled :
 SP-2-I-9(0-2)

Tot Ion	Ratio	Lower	Upper
202	100		
101	12.7	0.0	35.2
203	18.4	0.0	38.2

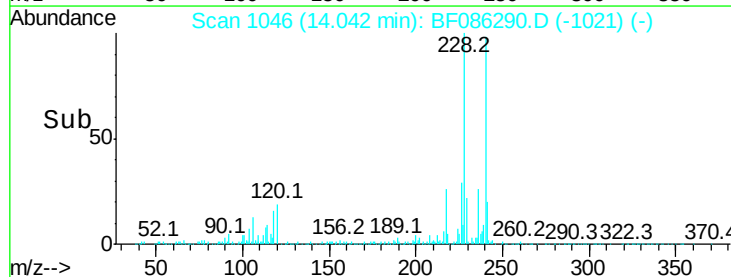
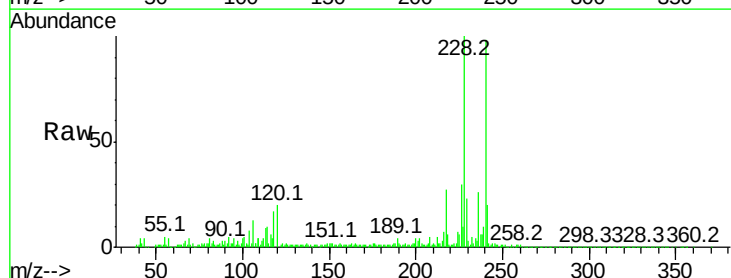
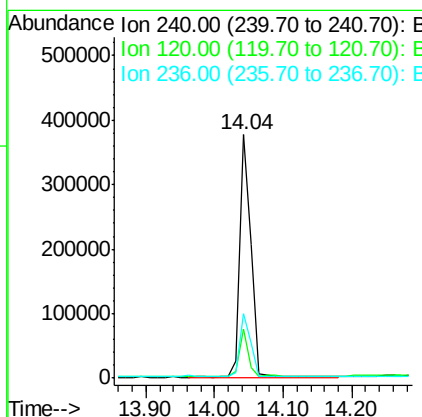
Manual Integrations
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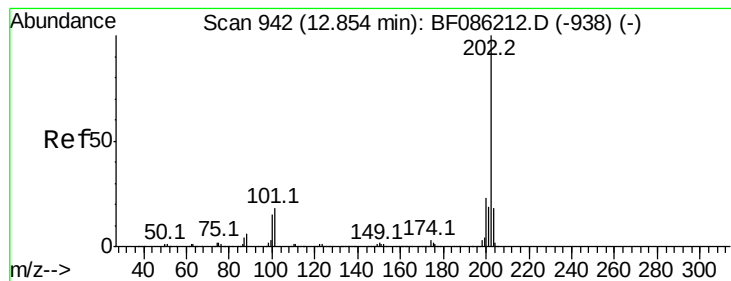
Sohil
 4/19/2016 6:23:12 PM



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.04 min Scan# 1046
 Delta R.T. -0.01 min
 Lab File: BF086290.D
 Acq: 18 Apr 2016 19:08

Tgt Ion	Ratio	Lower	Upper
240	100		
120	20.3	9.3	13.9#
236	26.6	21.1	31.7





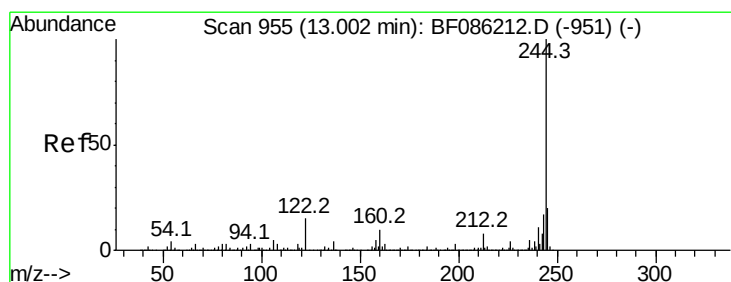
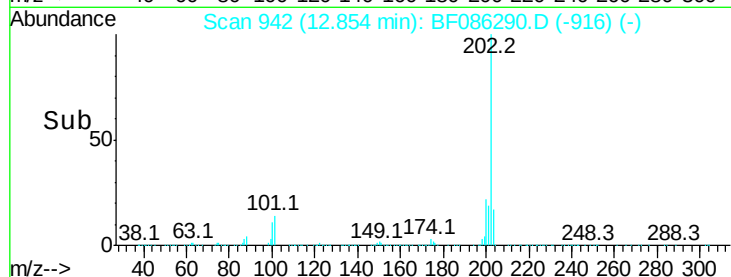
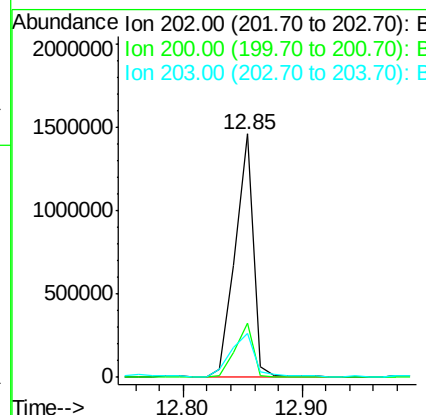
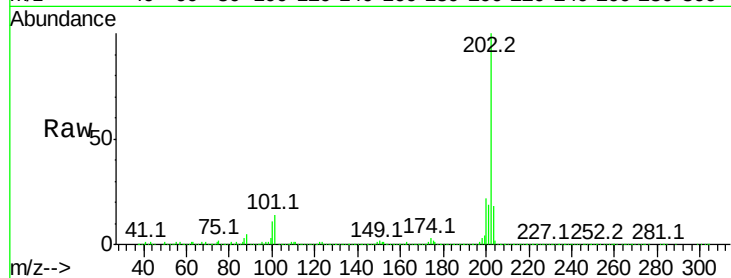
#77
Pvrene
Concen: 46.60 ng
RT: 12.85 min Scan# 942
Delta R.T. -0.00 min
Lab File: BF086290.D
Acq: 18 Apr 2016 19:08

Instrument :
BNA_F
ClientSampleId :
SP-2-I-9(0-2)

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.3	18.3	27.5
203	18.2	14.9	22.3

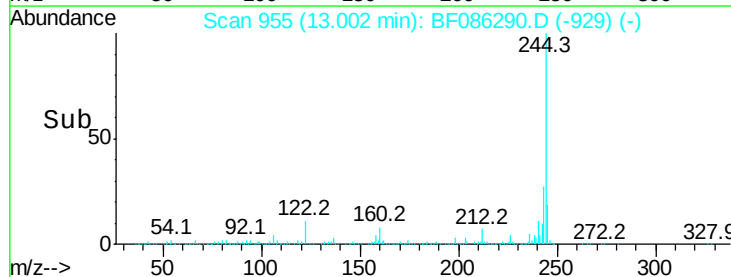
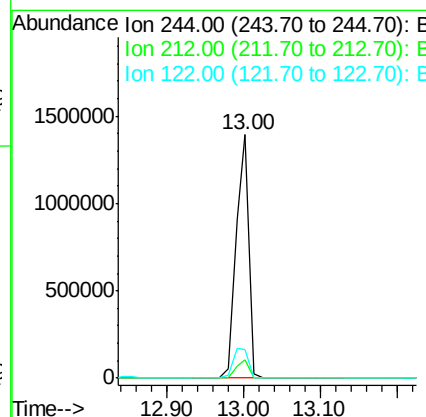
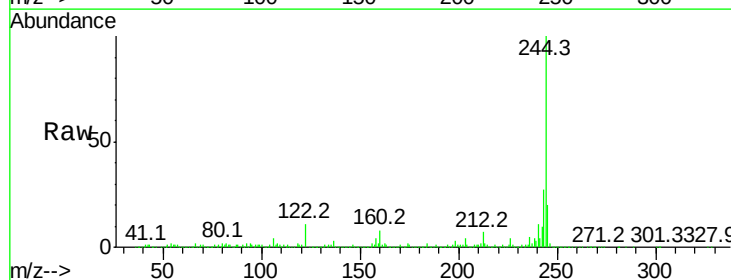
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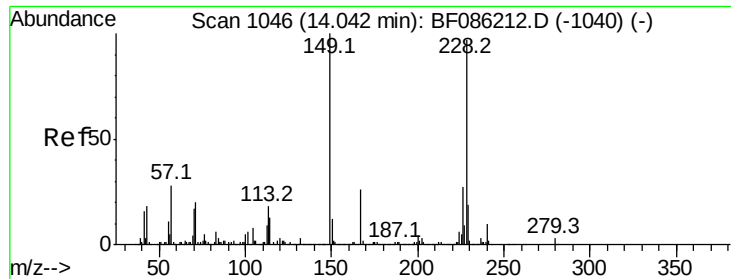
Sohil
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#78
Terphenyl-d14
Concen: 95.99 ng
RT: 13.00 min Scan# 955
Delta R.T. 0.00 min
Lab File: BF086290.D
Acq: 18 Apr 2016 19:08

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.4	9.6
122	11.5	11.7	17.5





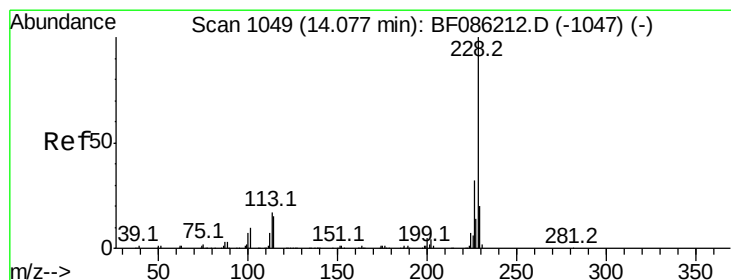
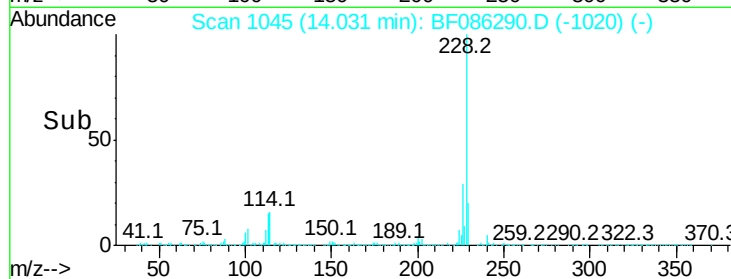
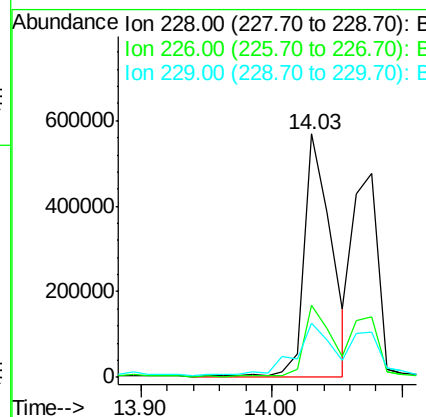
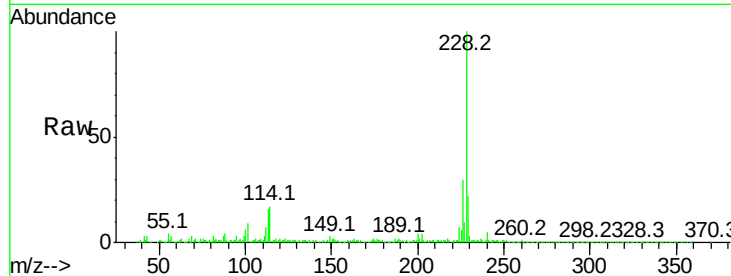
#80
Benzo(a)anthracene
Concen: 34.34 ng
RT: 14.03 min Scan# 1045
Delta R.T. -0.01 min
Lab File: BF086290.D
Acq: 18 Apr 2016 19:08

Instrument :
BNA_F
ClientSampled :
SP-2-I-9(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
228	100	811538		
226	29.8		22.5	33.7
229	22.1		16.2	24.2

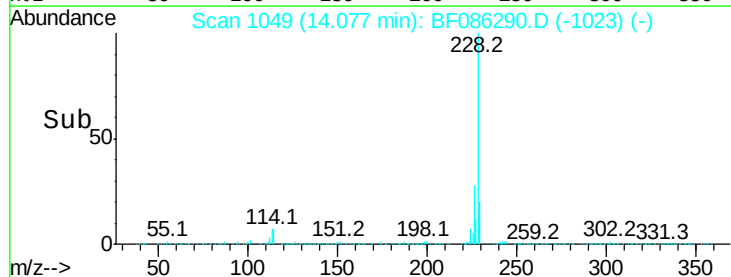
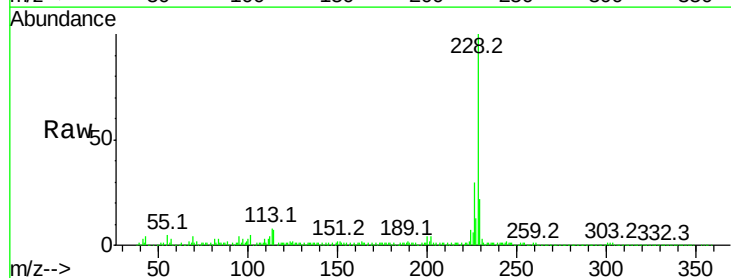
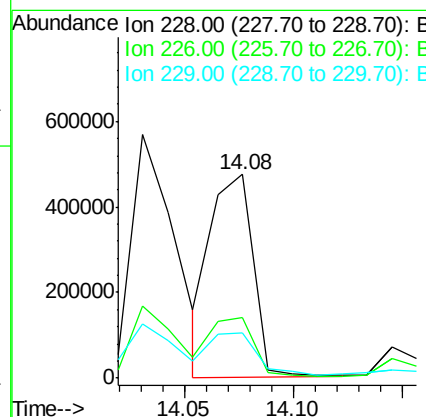
Manual Integrations
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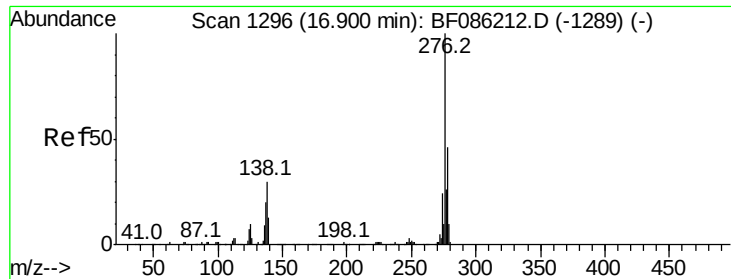
Sohil
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#82
Chrysene
Concen: 25.32 ng
RT: 14.08 min Scan# 1049
Delta R.T. -0.00 min
Lab File: BF086290.D
Acq: 18 Apr 2016 19:08

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	637953		
226	29.6		25.4	38.2
229	22.1		16.5	24.7





#85

Indeno(1,2,3-cd)pyrene

Concen: 13.76 ng

RT: 16.90 min Scan# 1296

Delta R.T. -0.00 min

Lab File: BF086290.D

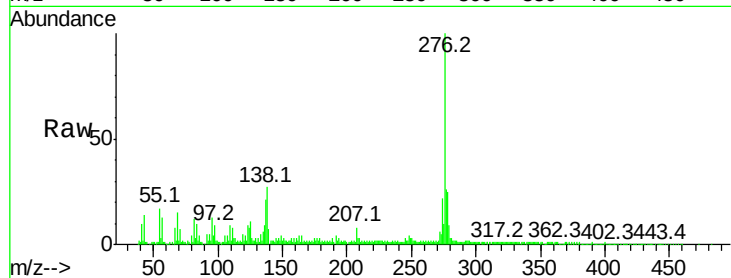
Acq: 18 Apr 2016 19:08

Instrument :

BNA_F

ClientSampled :

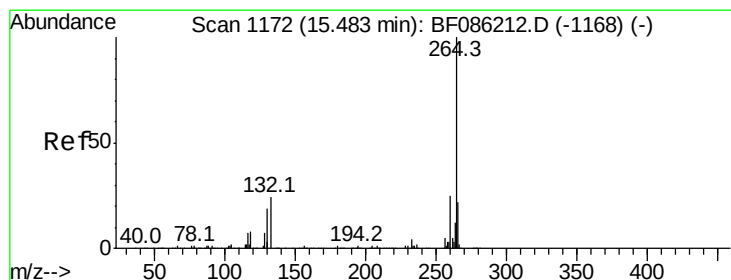
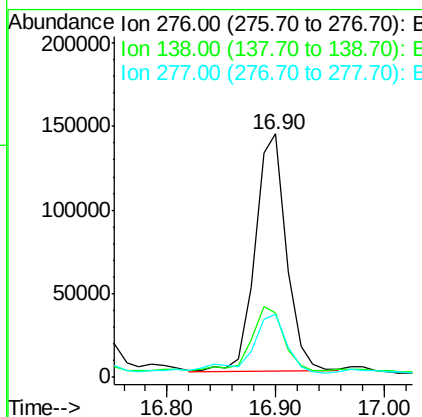
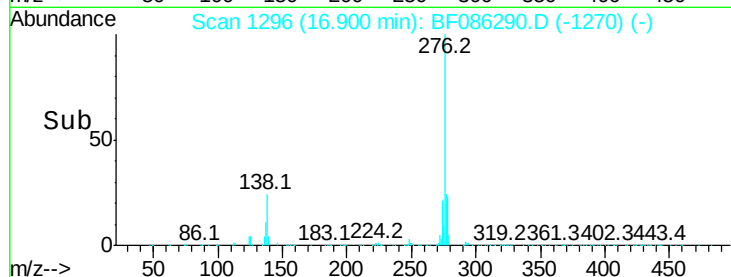
SP-2-I-9(0-2)



Tot Ion	Ratio	Lower	Upper
276	100		
138	28.1	23.8	35.6
277	29.0	20.2	30.2

Manual Integrations
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4/19/2016 6:23:12 PM



#86

Perylene-d12

Concen: 20.00 ng

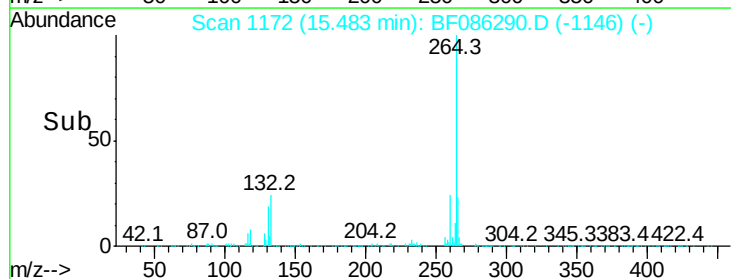
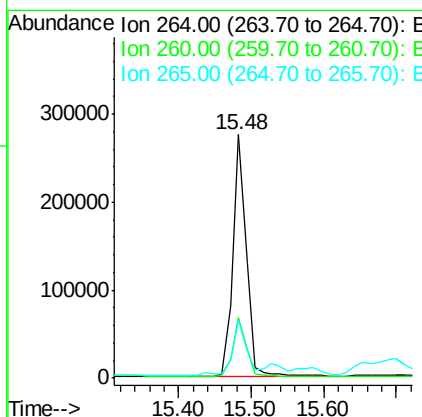
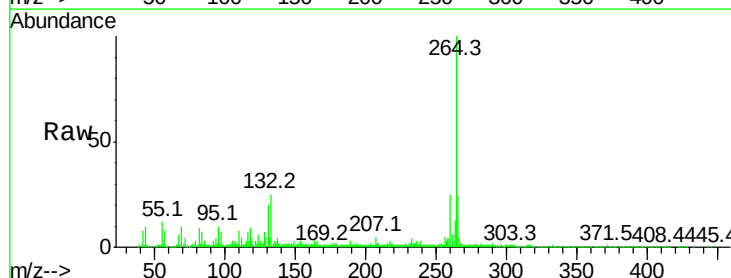
RT: 15.48 min Scan# 1172

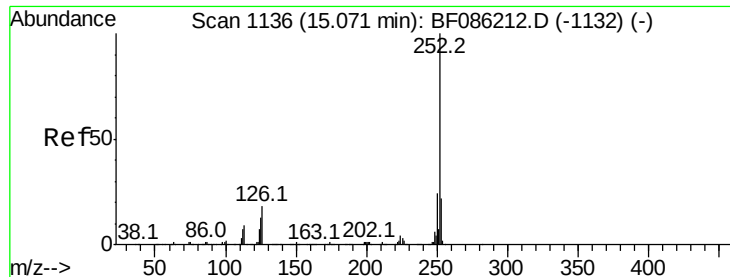
Delta R.T. -0.00 min

Lab File: BF086290.D

Acq: 18 Apr 2016 19:08

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.1	20.0	30.0
265	23.7	17.4	26.0





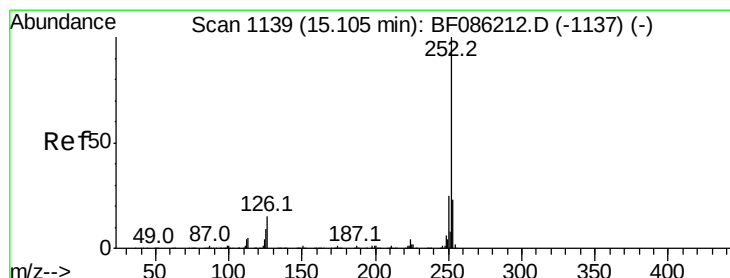
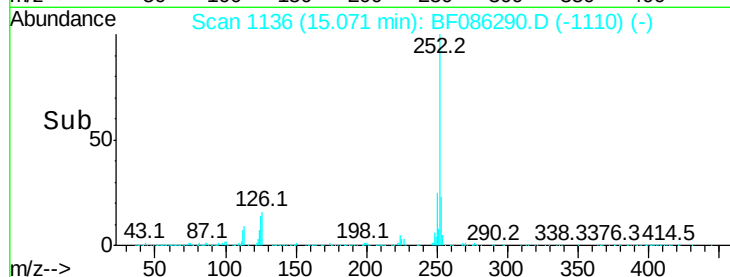
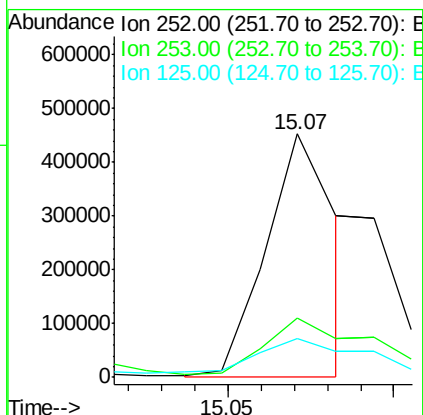
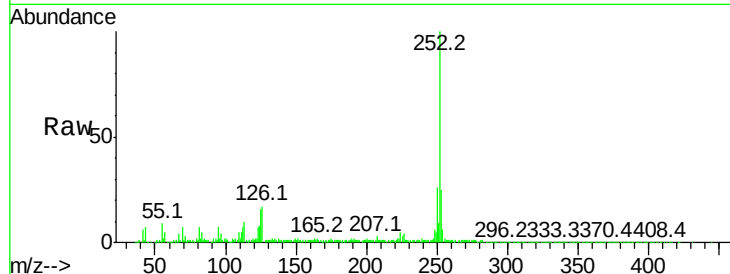
#87
Benzo(b)fluoranthene
Concen: 29.98 ng m
RT: 15.07 min Scan# 1136
Delta R.T. -0.00 min
Lab File: BF086290.D
Acq: 18 Apr 2016 19:08

Instrument :
BNA_F
ClientSampleId :
SP-2-I-9(0-2)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.7	26.5
125	16.1	10.3	15.5

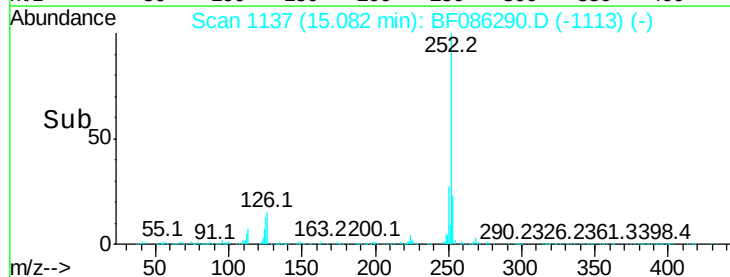
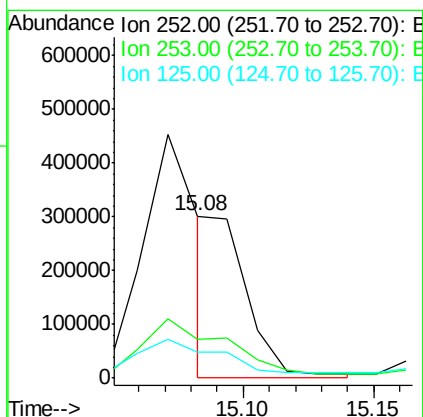
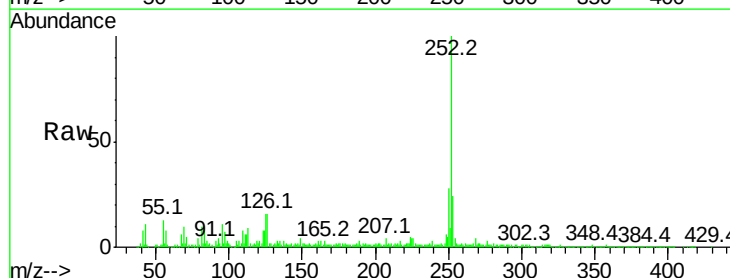
Manual Integrations
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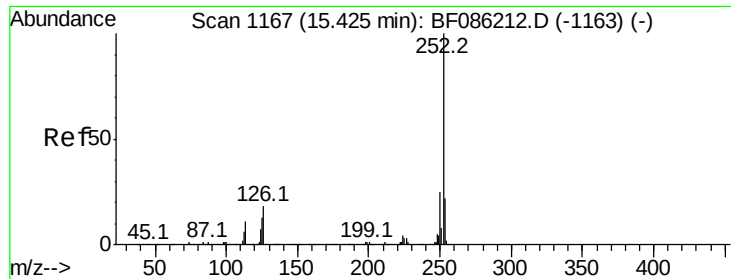
Sohil
4/19/2016 6:23:12 PM



#88
Benzo(k)fluoranthene
Concen: 14.01 ng m
RT: 15.08 min Scan# 1137
Delta R.T. -0.02 min
Lab File: BF086290.D
Acq: 18 Apr 2016 19:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.5	26.3
125	16.4	7.8	11.6





#89

Benzo(a)pyrene

Concen: 25.73 ng

RT: 15.43 min Scan# 1167

Delta R.T. -0.00 min

Lab File: BF086290.D

Acq: 18 Apr 2016 19:08

Instrument :

BNA_F

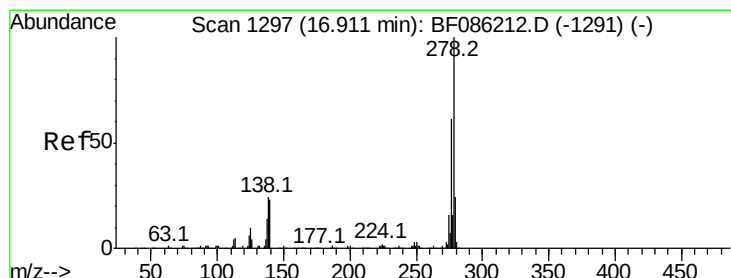
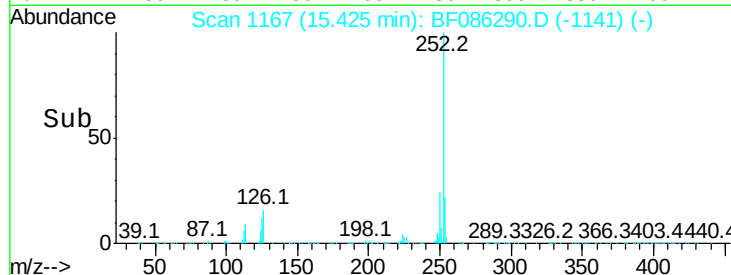
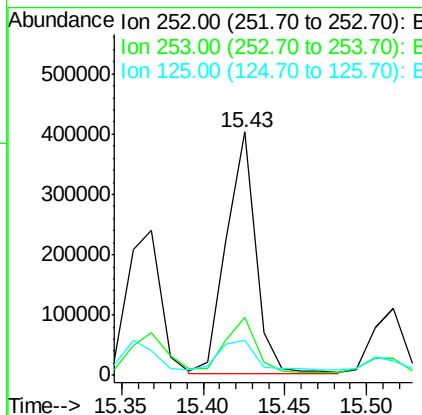
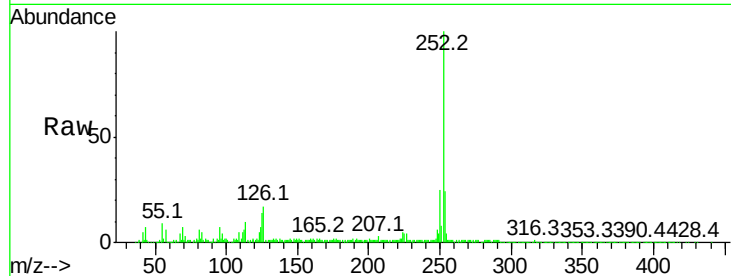
ClientSampled :

SP-2-I-9(0-2)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.8	26.8
125	14.3	11.2	16.8

Manual Integrations
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#90

Dibenzo(a,h)anthracene

Concen: 4.28 ng

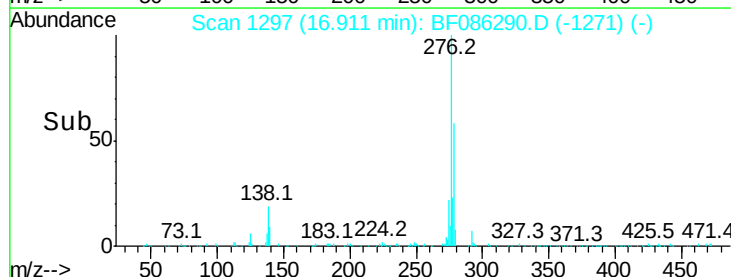
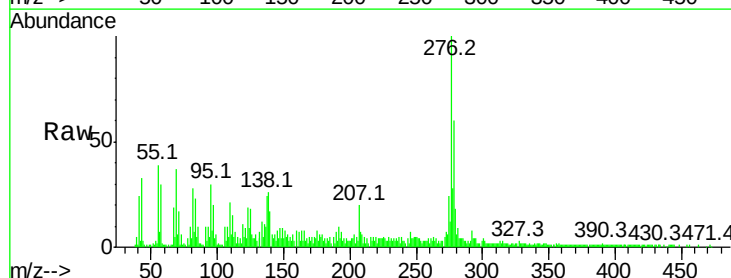
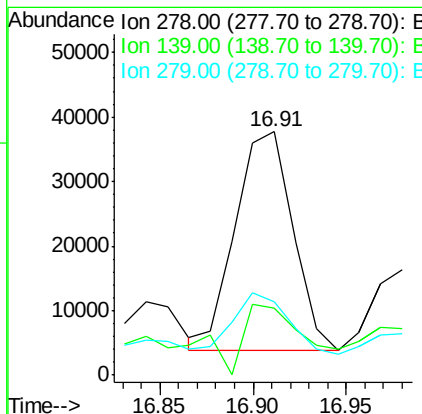
RT: 16.91 min Scan# 1297

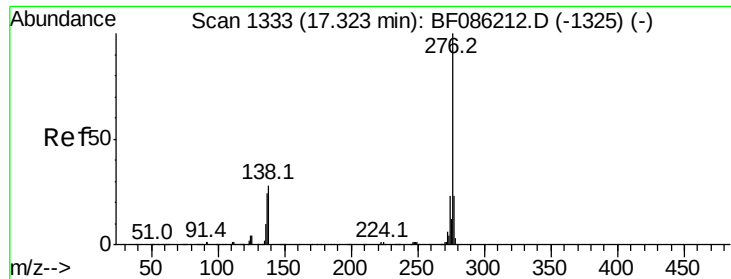
Delta R.T. -0.00 min

Lab File: BF086290.D

Acq: 18 Apr 2016 19:08

Tgt Ion	Ratio	Lower	Upper
278	100		
139	27.7	15.3	22.9#
279	30.1	19.1	28.7#





#91
 Benzo(a,h,i)perylene
 Concen: 15.68 ng
 RT: 17.32 min Scan# 1333
 Delta R.T. -0.00 min
 Lab File: BF086290.D
 Acq: 18 Apr 2016 19:08

Instrument :
 BNA_F
 ClientSampleId :
 SP-2-I-9(0-2)

Tot Ion	Ratio	Resp Lower	Upper
276	100		
277	24.2	19.0	28.6
138	29.4	19.6	29.4

Manual Integrations
 APPROVED

Sohil
 4/19/2016 6:23:12 PM

