

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051216\
 Data File : BF086948.D
 Acq On : 12 May 2016 23:48
 Operator : UM/SJ
 Sample : H2994-07
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CH-STA-1767-00(0-2)

Manual Integrations
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Quant Time: May 13 02:17:20 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	150237	20.00	ng	-0.01
21) Naphthalene-d8	7.91	136	595041	20.00	ng	-0.01
38) Acenaphthene-d10	9.66	164	262985	20.00	ng	-0.01
63) Phenanthrene-d10	11.13	188	362713	20.00	ng	-0.01
75) Chrysene-d12	13.77	240	268926	20.00	ng	0.00
86) Perylene-d12	15.13	264	310581	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.22	112	793629	89.46	ng	0.01
7) Phenol-d6	6.28	99	1028887	86.78	ng	-0.01
23) Nitrobenzene-d5	7.20	82	791364	66.78	ng	-0.01
41) 2,4,6-Tribromophenol	10.44	330	177479	63.75	ng	-0.01
44) 2-Fluorobiphenyl	8.99	172	1039203	66.41	ng	0.00
78) Terphenyl-d14	12.72	244	574026	45.29	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.93	128	162462	5.45	ng	99
37) 2-Methylnaphthalene	8.62	142	73921m	4.24	ng	
48) Acenaphthylene	9.52	152	341119	14.15	ng	99
49) Dimethylphthalate	9.39	163	99303	4.95	ng	99
54) Dibenzofuran	9.86	168	75230	3.91	ng	# 98
57) Fluorene	10.20	166	71646	4.36	ng	96
70) Phenanthrene	11.15	178	645258	33.34	ng	99
71) Anthracene	11.21	178	324898	16.41	ng	99
72) Carbazole	11.37	167	96842	5.69	ng	98
74) Fluoranthene	12.34	202	1267913	63.69	ng	98
77) Pyrene	12.57	202	1277805	62.06	ng	99
80) Benzo(a)anthracene	13.76	228	901155	59.69	ng	# 92
82) Chrysene	13.79	228	838071m	54.57	ng	
85) Indeno(1,2,3-cd)pyrene	16.39	276	426498m	33.38	ng	
87) Benzo(b)fluoranthene	14.77	252	1217656m	60.33	ng	
88) Benzo(k)fluoranthene	14.79	252	498684m	30.17	ng	
89) Benzo(a)pyrene	15.07	252	717293m	41.20	ng	
90) Dibenzo(a,h)anthracene	16.39	278	140972	9.61	ng	95
91) Benzo(g,h,i)perylene	16.75	276	330087	22.14	ng	95

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

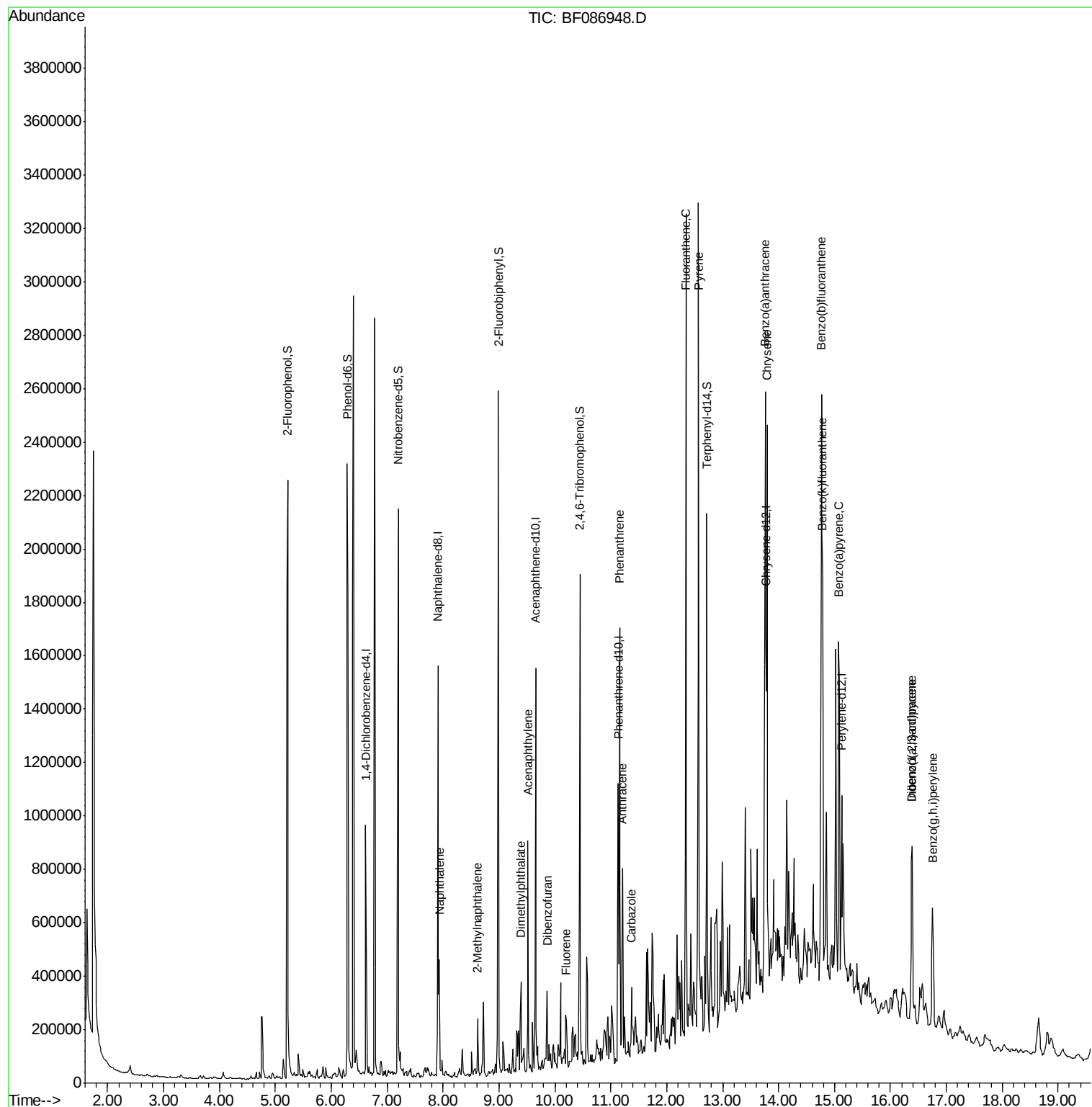
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051216\
Data File : BF086948.D
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Misc :
ALS Vial : 22 Sample Multiplier: 1

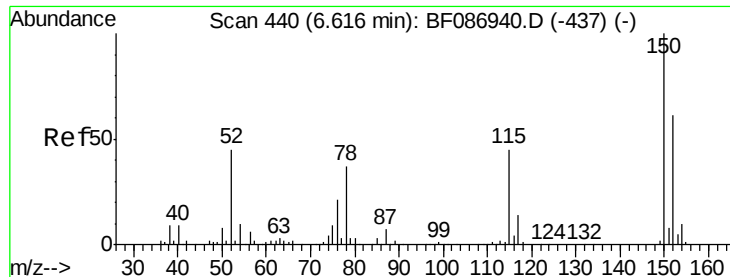
Instrument :
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CH-STA-1767-00(0-2)

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Quant Time: May 13 02:17:20 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: BF086948.D

Acq: 12 May 2016 23:48

Instrument :

BNA_F

ClientSampleId :

CH-STA-1767-00(0-2)

Tgt Ion:152 Resp: 150237
Ion Ratio Lower Upper

152 100

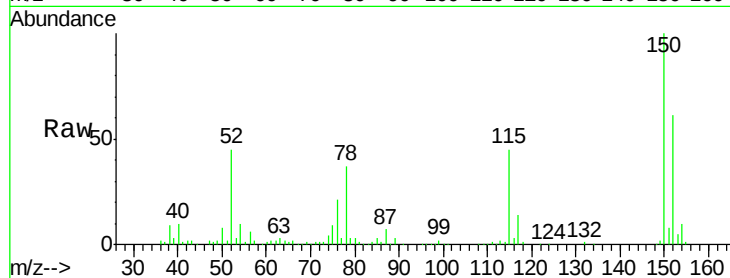
150 162.9 125.8 188.6

115 73.9 51.5 77.3

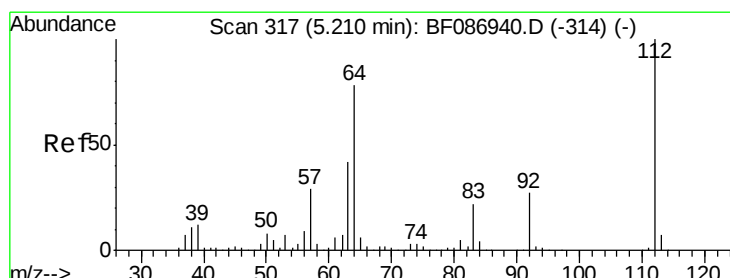
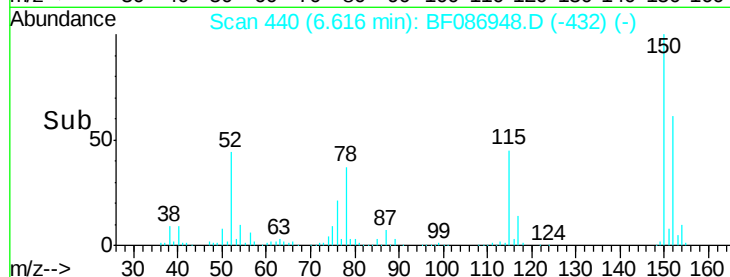
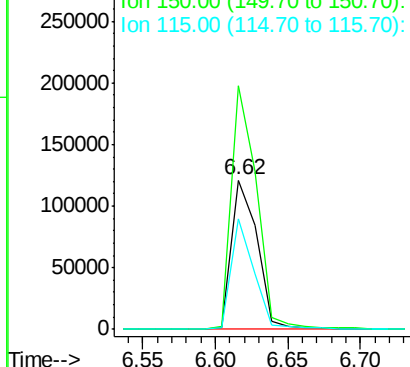
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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 89.46 ng

RT: 5.22 min Scan# 318

Delta R.T. 0.01 min

Lab File: BF086948.D

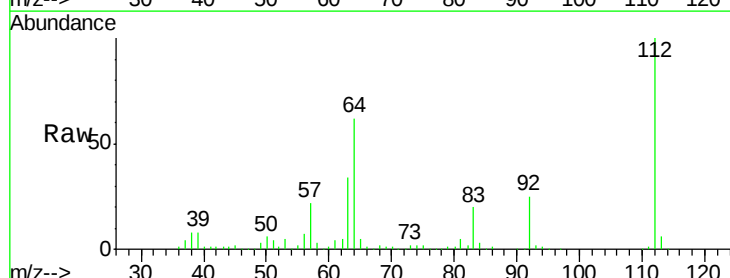
Acq: 12 May 2016 23:48

Tgt Ion:112 Resp: 793629
Ion Ratio Lower Upper

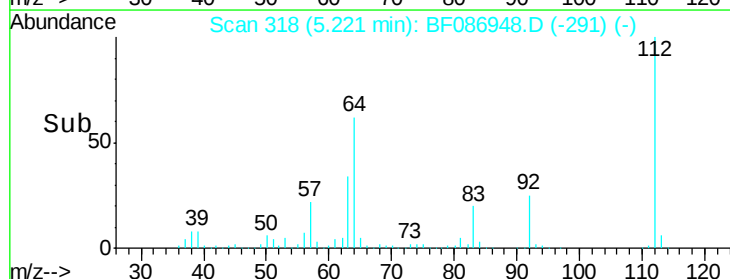
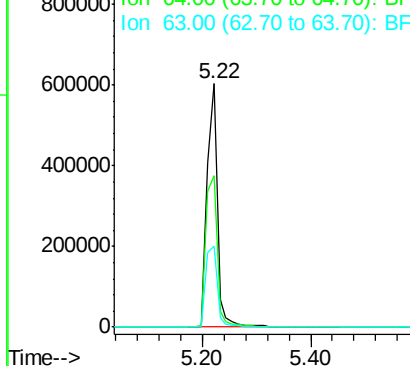
112 100

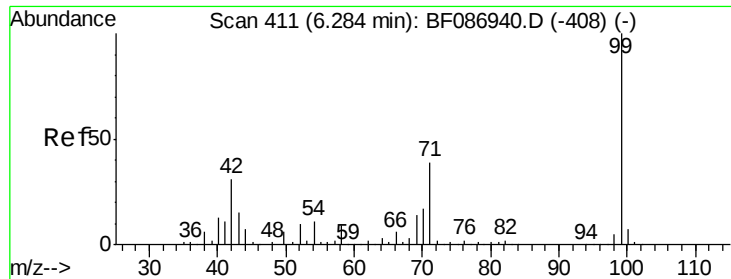
64 62.5 52.1 78.1

63 33.5 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: 86.78 ng

RT: 6.28 min Scan# 411

Delta R.T. -0.01 min

Lab File: BF086948.D

Acq: 12 May 2016 23:48

Instrument :

BNA_F

ClientSampleId :

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Tgt Ion: 99 Resp: 102887

Ion Ratio Lower Upper

99 100

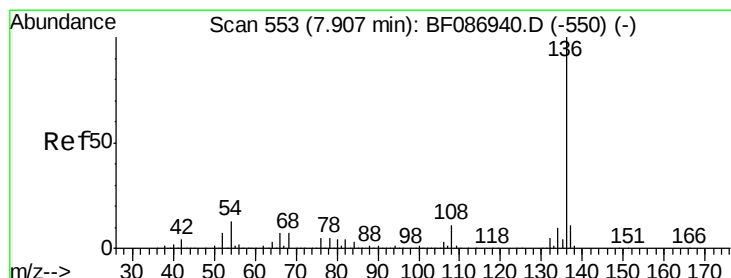
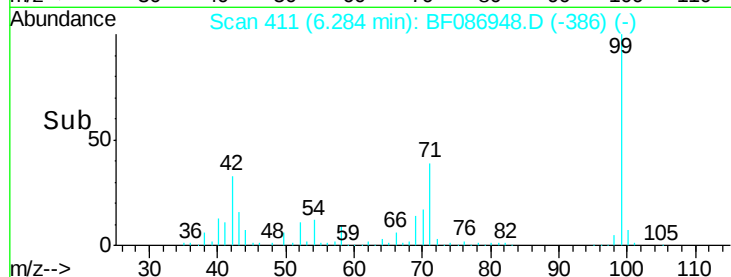
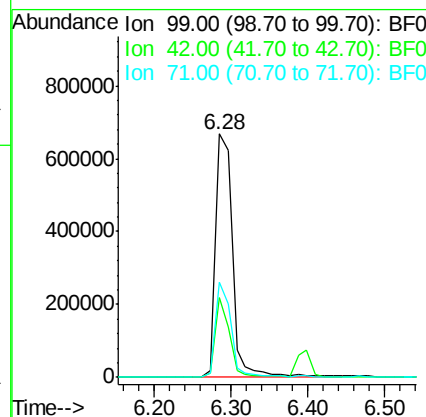
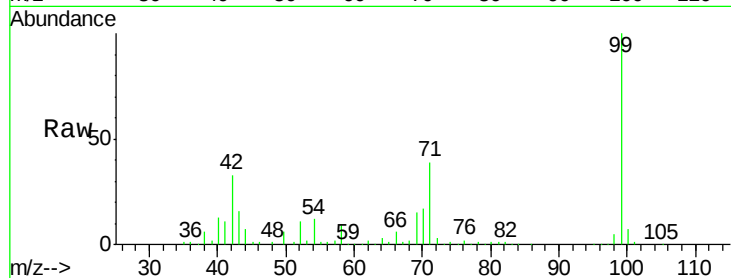
42 32.8 13.6 20.4#

71 39.2 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: BF086948.D

Acq: 12 May 2016 23:48

Tgt Ion: 136 Resp: 595041

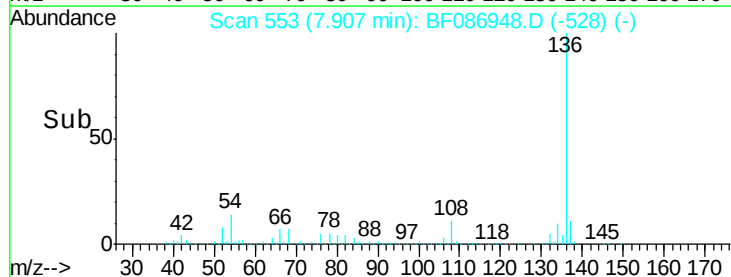
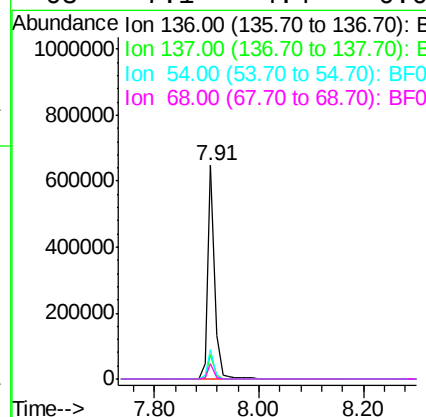
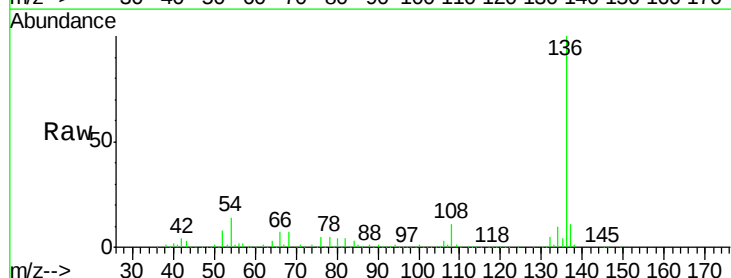
Ion Ratio Lower Upper

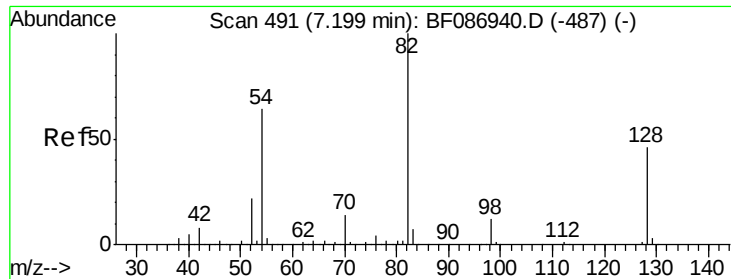
136 100

137 11.1 8.8 13.2

54 13.6 5.0 7.4#

68 7.1 4.4 6.6#





#23

Nitrobenzene-d5

Concen: 66.78 ng

RT: 7.20 min Scan# 491

Delta R.T. -0.01 min

Lab File: BF086948.D

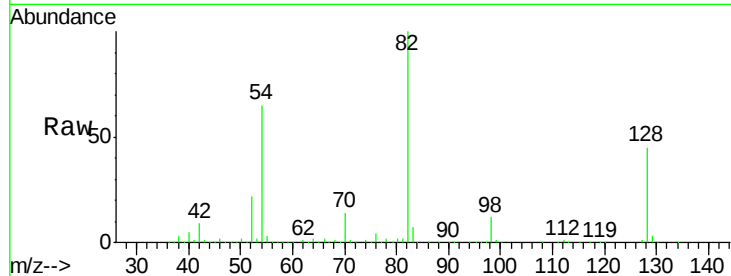
Acq: 12 May 2016 23:48

Instrument :

BNA_F

ClientSampleId :

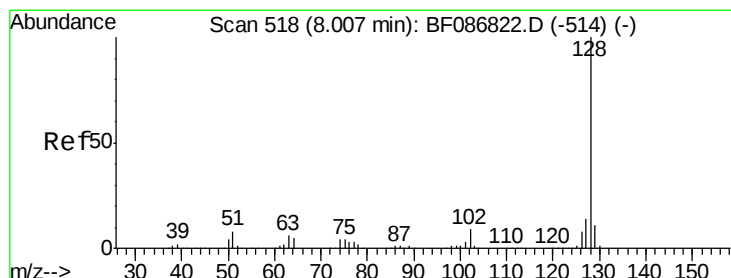
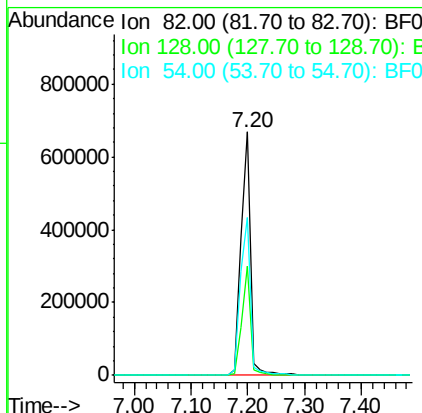
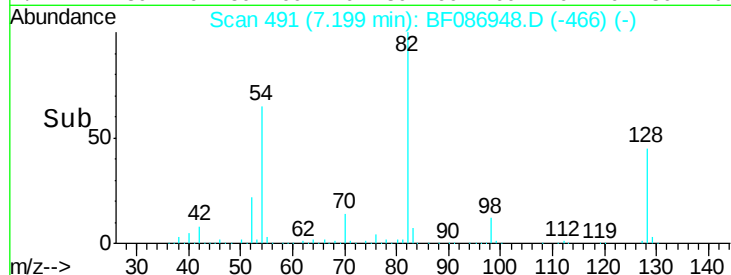
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Tgt Ion	82	128	54
Ratio	100	44.9	65.0
Lower		40.6	38.1
Upper		61.0	57.1

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#31

Naphthalene

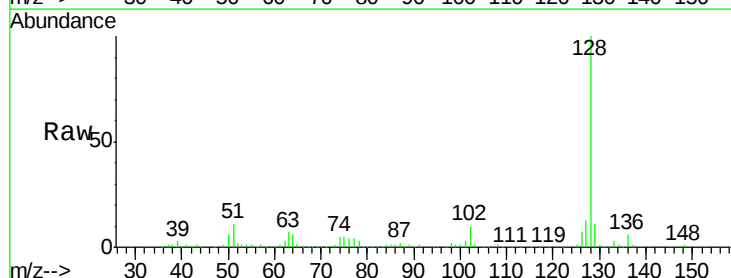
Concen: 5.45 ng

RT: 7.93 min Scan# 555

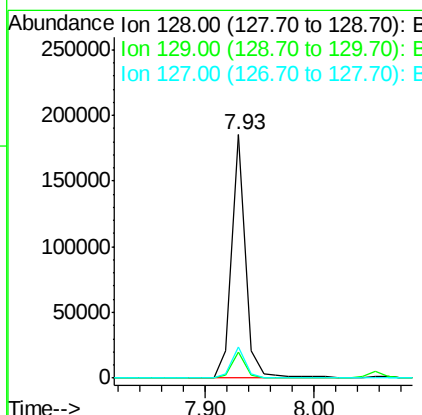
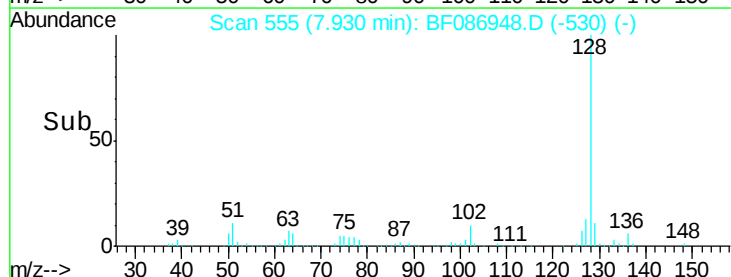
Delta R.T. -0.01 min

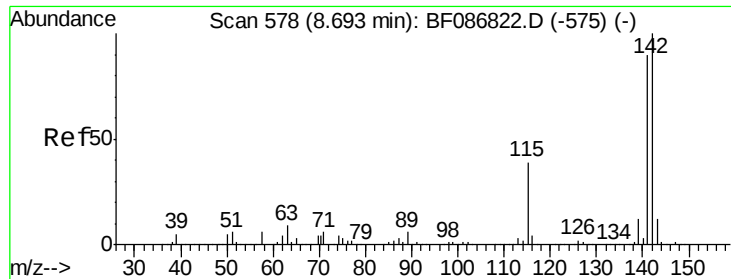
Lab File: BF086948.D

Acq: 12 May 2016 23:48



Tgt Ion	128	129	127
Ratio	100	10.8	12.6
Lower		8.6	10.8
Upper		13.0	16.2





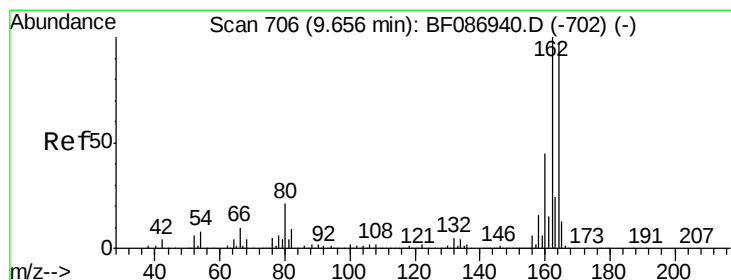
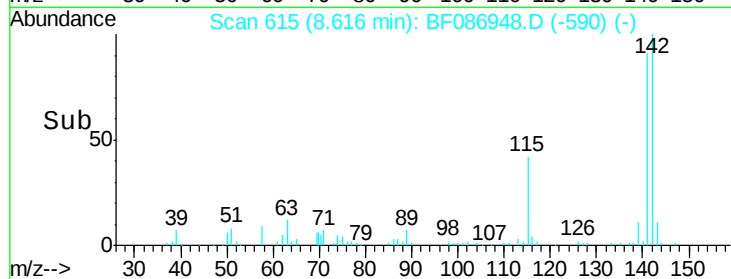
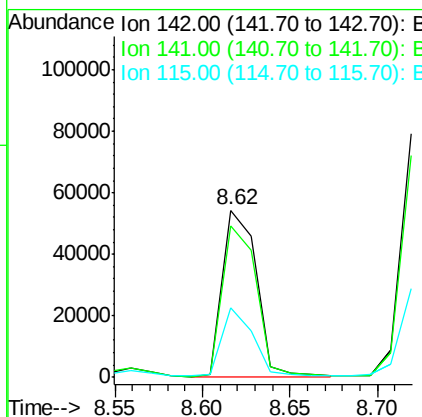
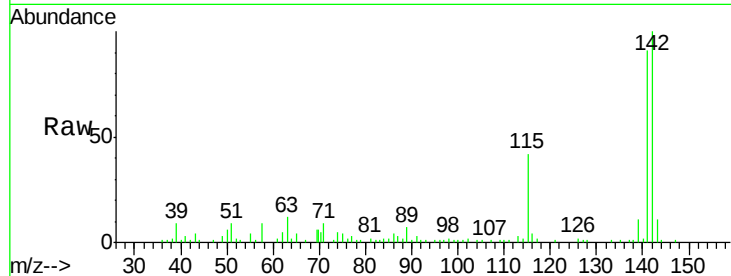
#37
 2-Methylnaphthalene
 Concen: 4.24 ng m
 RT: 8.62 min Scan# 615
 Delta R.T. -0.01 min
 Lab File: BF086948.D
 Acq: 12 May 2016 23:48

Instrument :
 BNA_F
 ClientSampleId :
 CH-STA-1767-00(0-2)

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.7	71.0	106.6
115	42.0	26.6	39.8

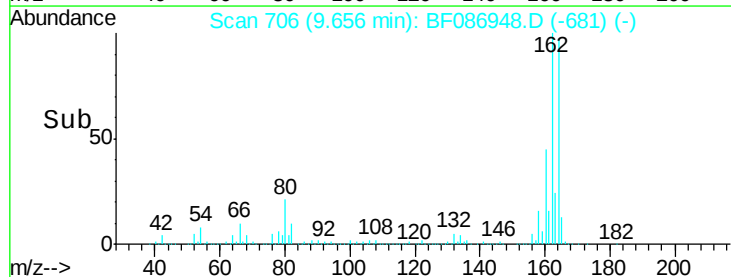
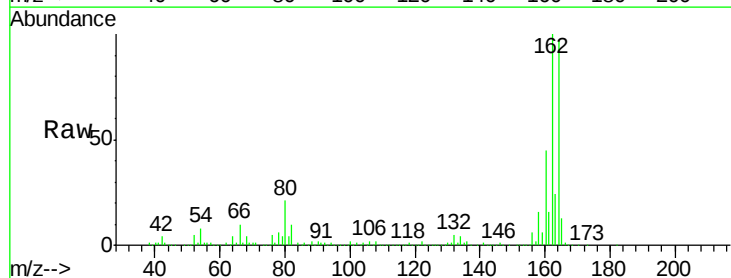
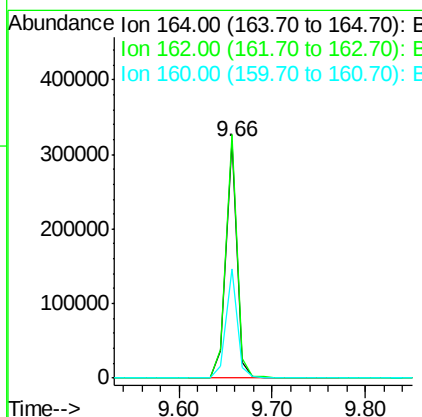
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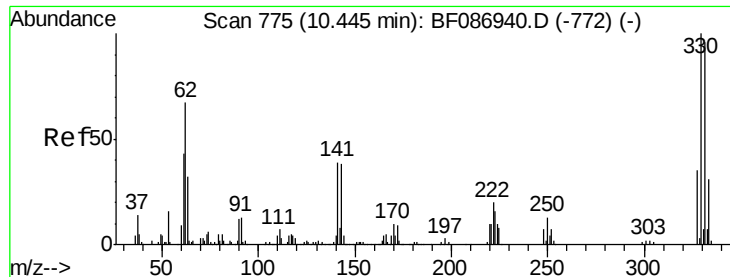
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.66 min Scan# 706
 Delta R.T. -0.01 min
 Lab File: BF086948.D
 Acq: 12 May 2016 23:48

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.8	82.8	124.2
160	45.9	36.9	55.3





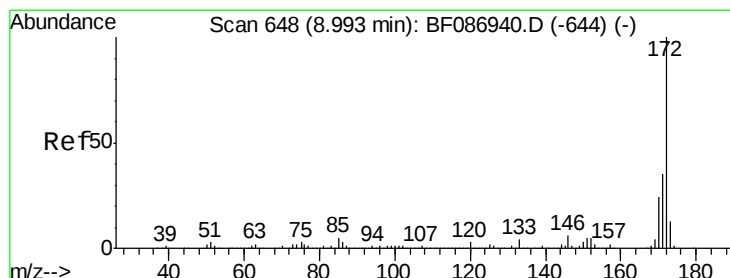
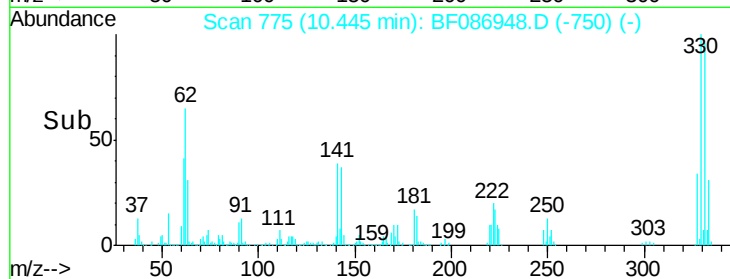
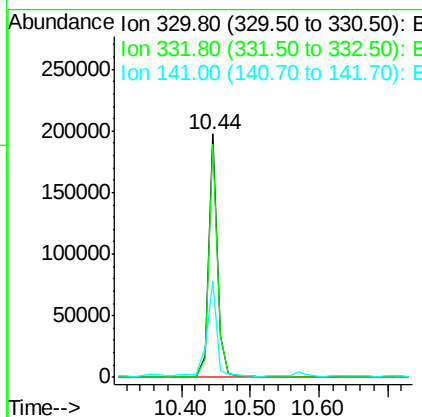
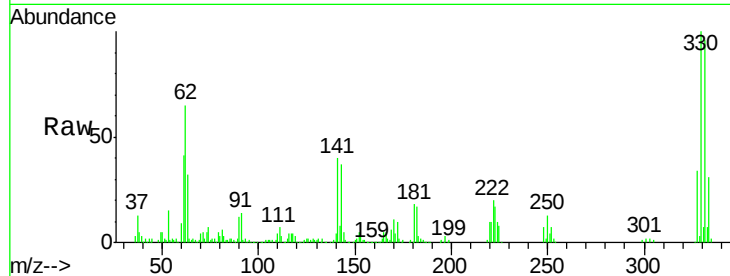
#41
 2,4,6-Tribromophenol
 Concen: 63.75 ng
 RT: 10.44 min Scan# 775
 Delta R.T. -0.01 min
 Lab File: BF086948.D
 Acq: 12 May 2016 23:48

Instrument :
 BNA_F
 ClientSampleId :
 CH-STA-1767-00(0-2)

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	177479		
332	96.2	79.0	118.4	
141	44.1	31.2	46.8	

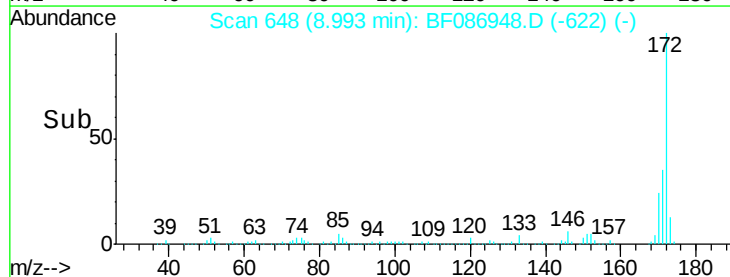
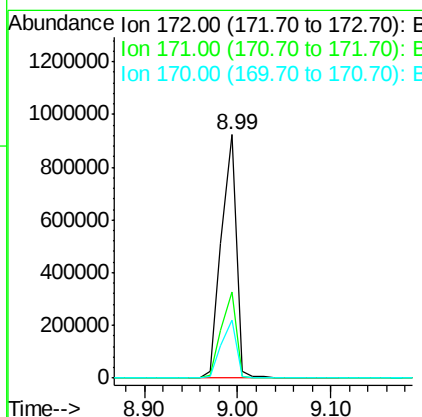
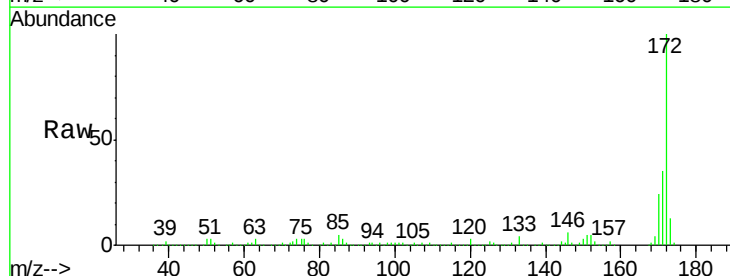
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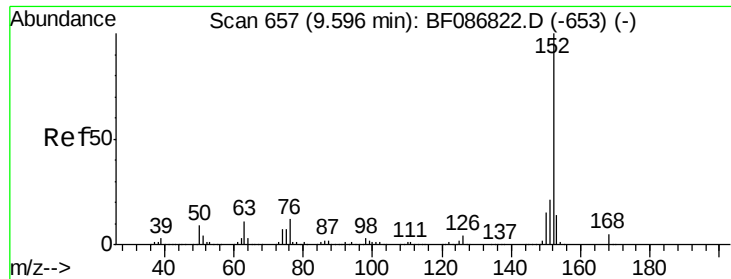
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#44
 2-Fluorobiphenyl
 Concen: 66.41 ng
 RT: 8.99 min Scan# 648
 Delta R.T. 0.00 min
 Lab File: BF086948.D
 Acq: 12 May 2016 23:48

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1039203		
171	35.5	29.0	43.6	
170	23.7	19.8	29.8	





#48

Acenaphthylene

Concen: 14.15 ng

RT: 9.52 min Scan# 694

Delta R.T. -0.01 min

Lab File: BF086948.D

Acq: 12 May 2016 23:48

Instrument :

BNA_F

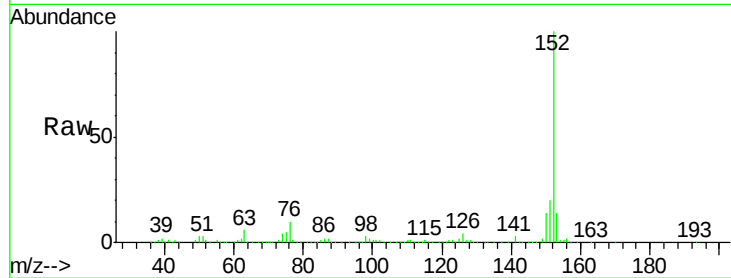
ClientSampleId :

CH-STA-1767-00(0-2)

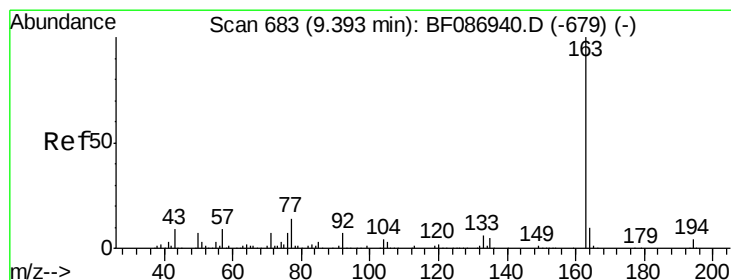
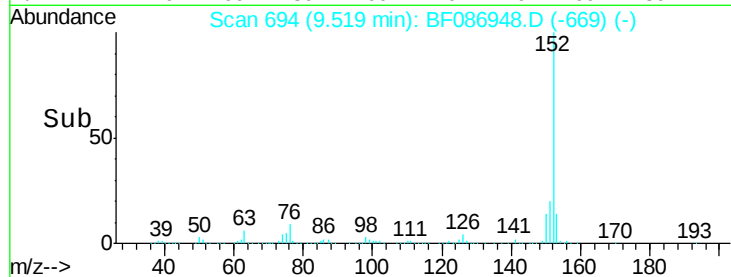
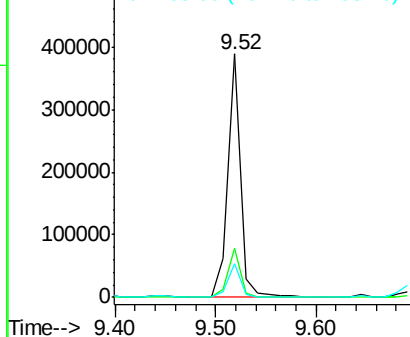
Tgt Ion:	152	Resp:	341119
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.8	25.2
153	13.8	10.9	16.3

Manual Integrations
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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 4.95 ng

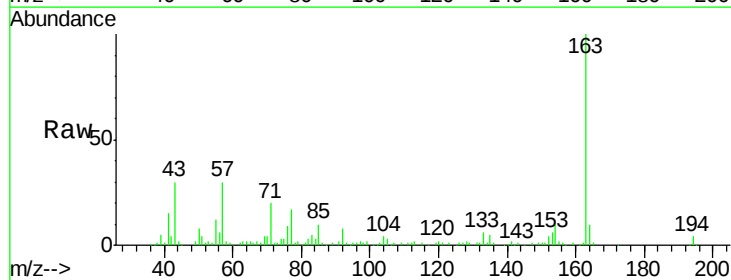
RT: 9.39 min Scan# 683

Delta R.T. -0.01 min

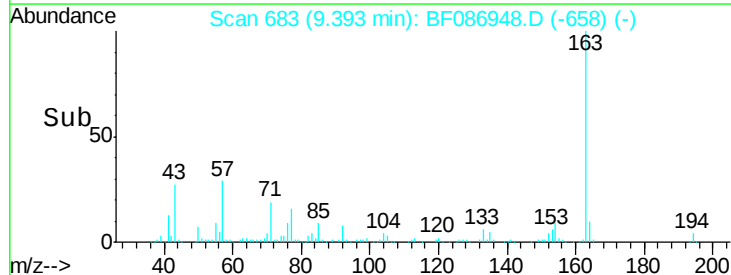
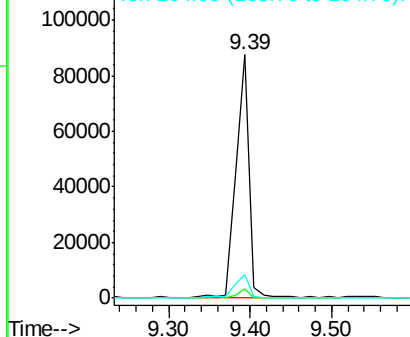
Lab File: BF086948.D

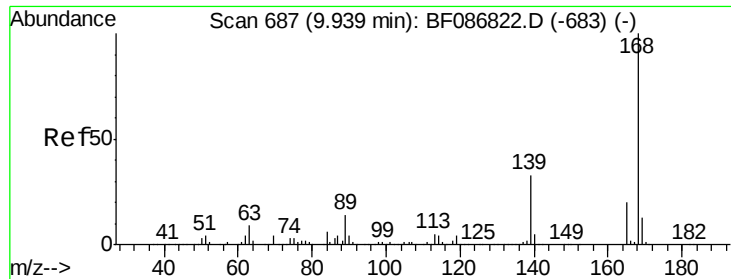
Acq: 12 May 2016 23:48

Tgt Ion:	163	Resp:	99303
Ion Ratio	Lower	Upper	
163	100		
194	3.8	2.6	4.0
164	9.9	8.2	12.4



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#54

Dibenzenofuran

Concen: 3.91 ng

RT: 9.86 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF086948.D

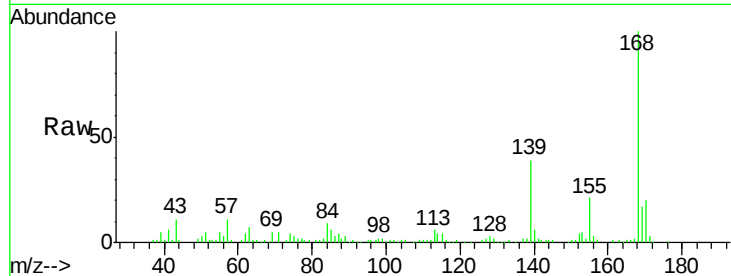
Acq: 12 May 2016 23:48

Instrument :

BNA_F

ClientSampleId :

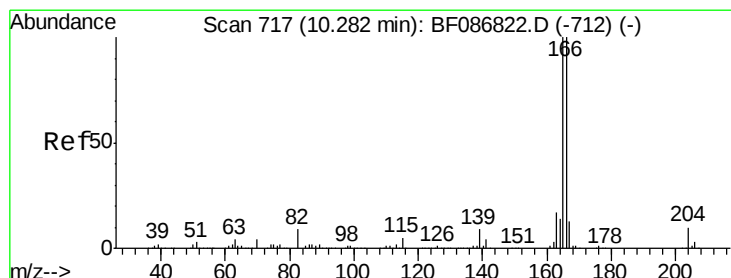
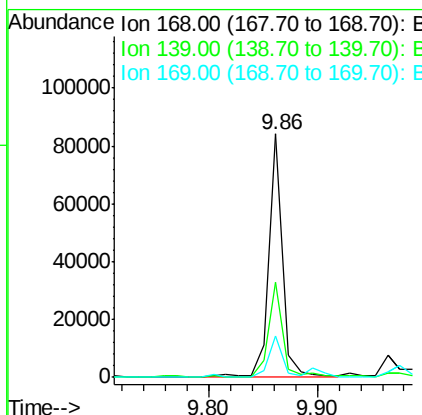
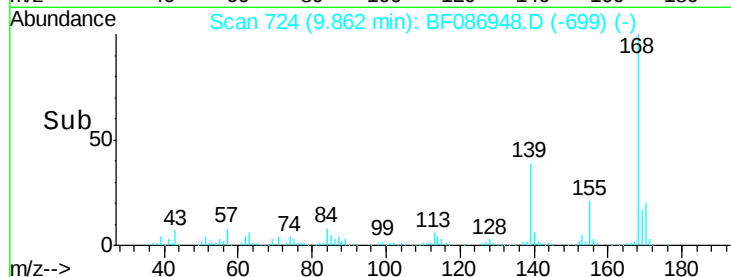
CH-STA-1767-00(0-2)



Tgt Ion:	168	Resp:	75230
Ion Ratio	Lower	Upper	
168	100		
139	39.3	31.4	47.0
169	17.1	10.7	16.1#

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#57

Fluorene

Concen: 4.36 ng

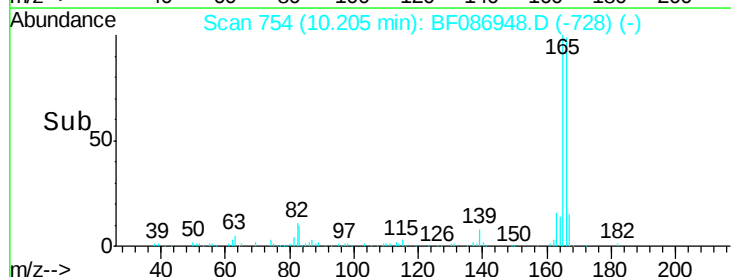
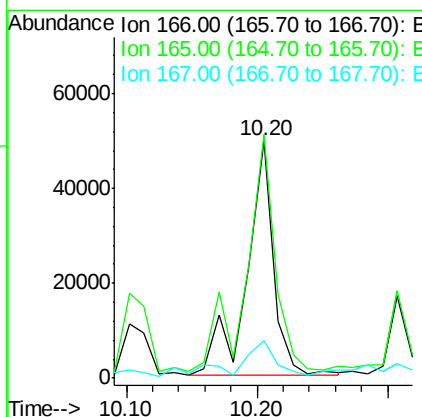
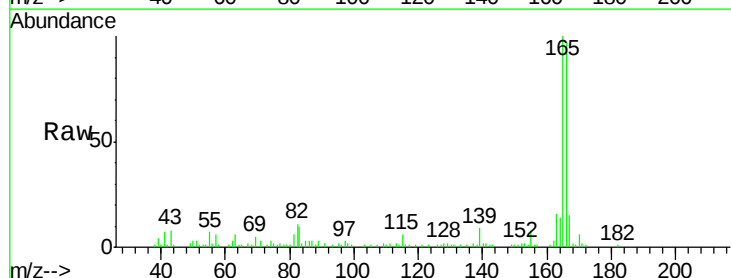
RT: 10.20 min Scan# 754

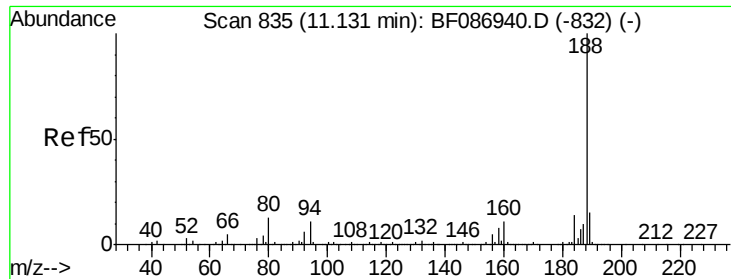
Delta R.T. 0.00 min

Lab File: BF086948.D

Acq: 12 May 2016 23:48

Tgt Ion:	166	Resp:	71646
Ion Ratio	Lower	Upper	
166	100		
165	102.6	79.0	118.6
167	15.8	10.6	15.8





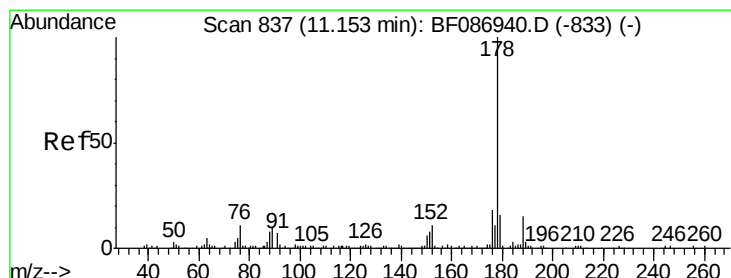
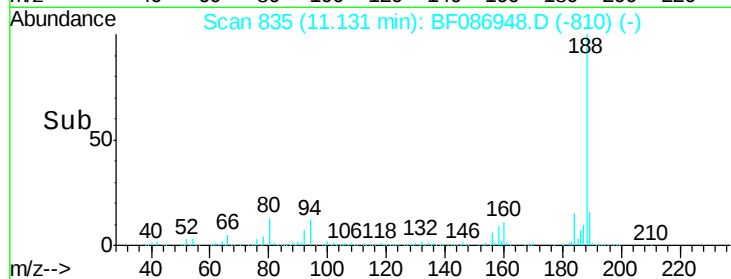
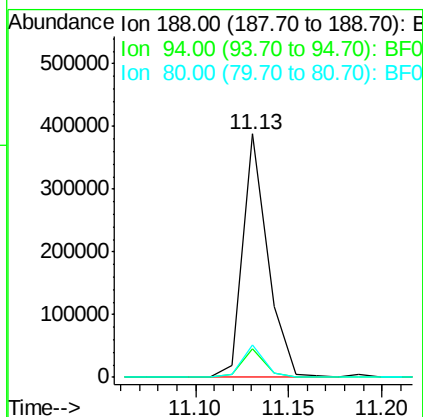
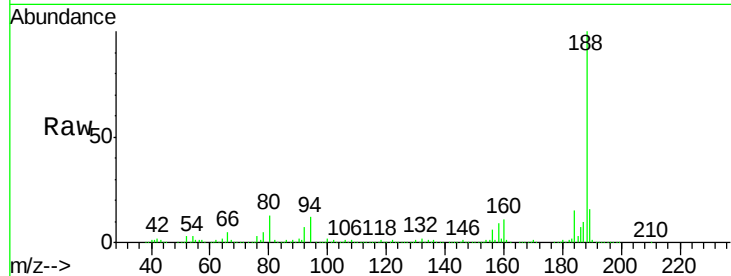
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.13 min Scan# 835
Delta R.T. -0.01 min
Lab File: BF086948.D
Acq: 12 May 2016 23:48

Instrument :
BNA_F
ClientSampleId :
CH-STA-1767-00(0-2)

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	11.9	6.8	10.2#
80	13.3	7.1	10.7#

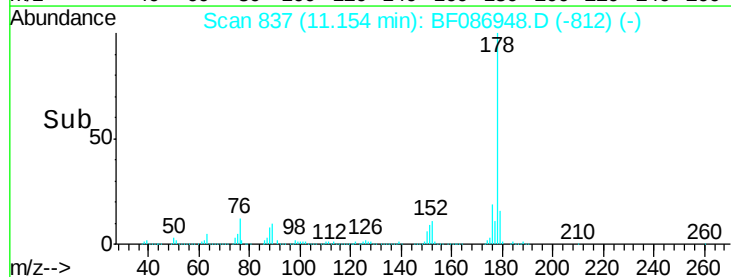
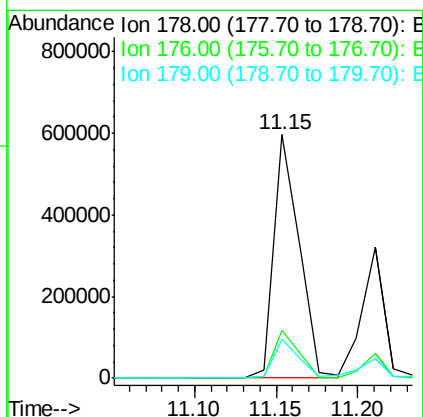
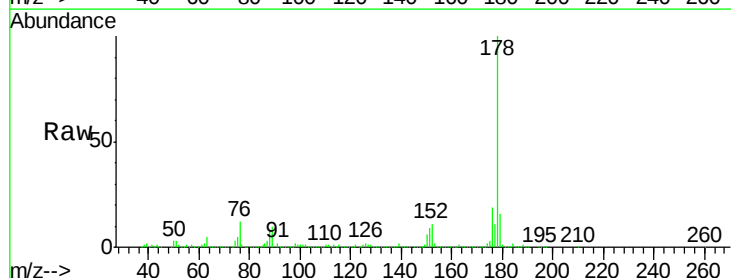
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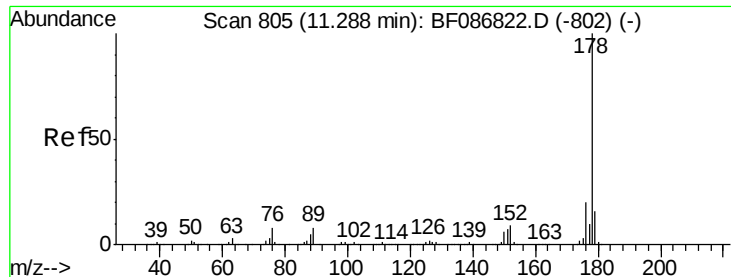
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#70
Phenanthrene
Concen: 33.34 ng
RT: 11.15 min Scan# 837
Delta R.T. -0.01 min
Lab File: BF086948.D
Acq: 12 May 2016 23:48

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





#71

Anthracene

Concen: 16.41 ng

RT: 11.21 min Scan# 842

Delta R.T. 0.00 min

Lab File: BF086948.D

Acq: 12 May 2016 23:48

Instrument :

BNA_F

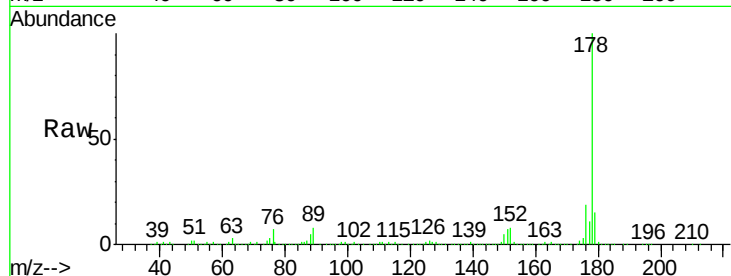
ClientSampleId :

CH-STA-1767-00(0-2)

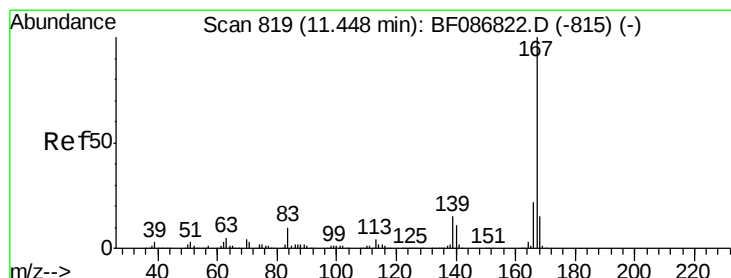
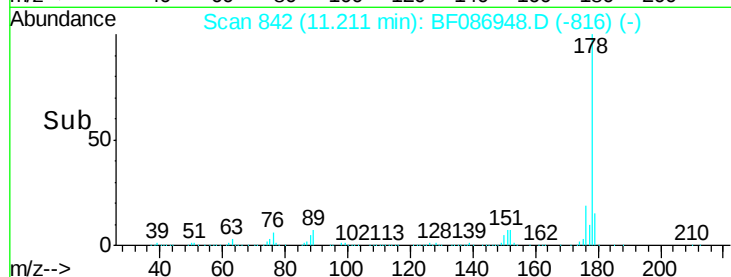
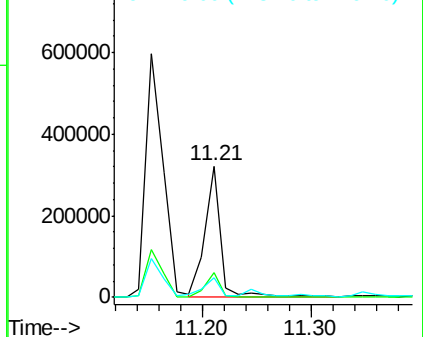
Tgt Ion:	178	Resp:	324898
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.6	23.4
179	15.3	12.7	19.1

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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



#72

Carbazole

Concen: 5.69 ng

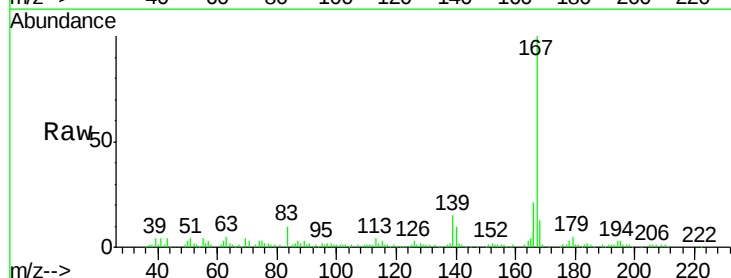
RT: 11.37 min Scan# 856

Delta R.T. -0.01 min

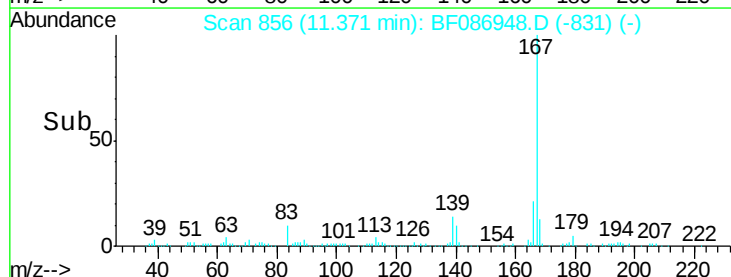
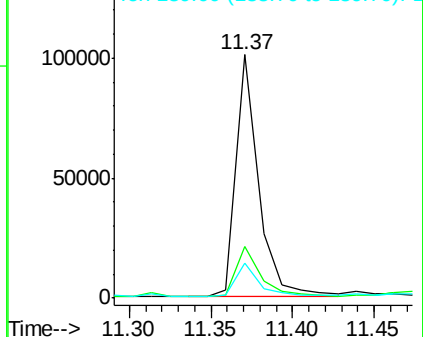
Lab File: BF086948.D

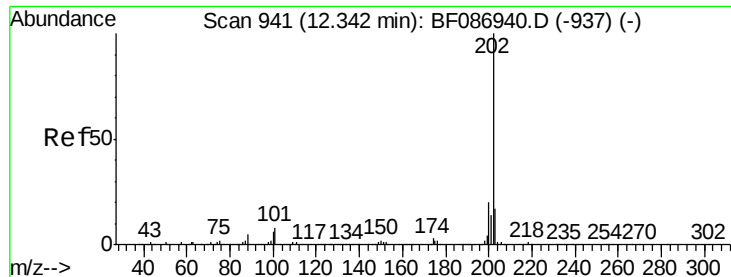
Acq: 12 May 2016 23:48

Tgt Ion:	167	Resp:	96842
Ion Ratio	Lower	Upper	
167	100		
166	21.3	17.7	26.5
139	14.5	10.8	16.2



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 63.69 ng

RT: 12.34 min Scan# 941

Delta R.T. 0.00 min

Lab File: BF086948.D

Acq: 12 May 2016 23:48

Instrument :

BNA_F

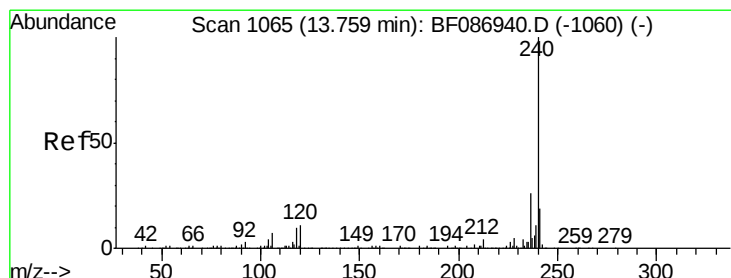
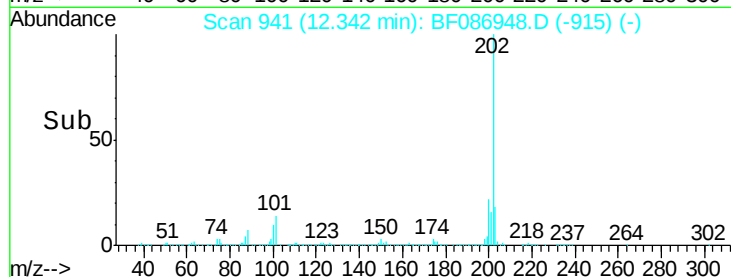
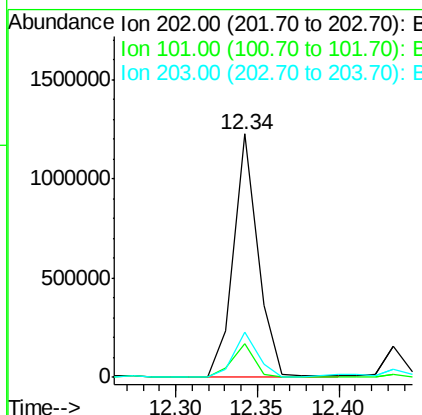
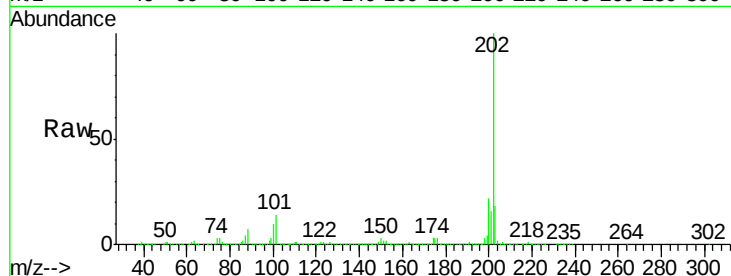
ClientSampleId :

CH-STA-1767-00(0-2)

Tgt Ion:	202	Resp:	1267913
Ion Ratio	Lower	Upper	
202	100		
101	13.6	0.0	35.4
203	18.5	0.0	38.1

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#75

Chrysene-d12

Concen: 20.00 ng

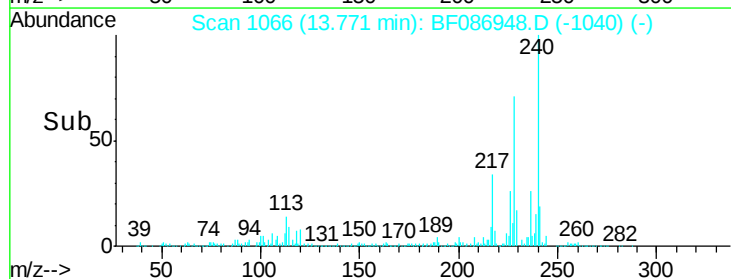
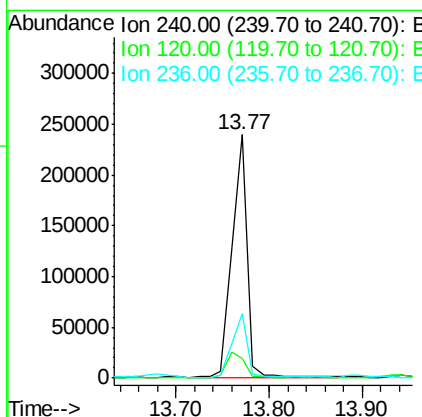
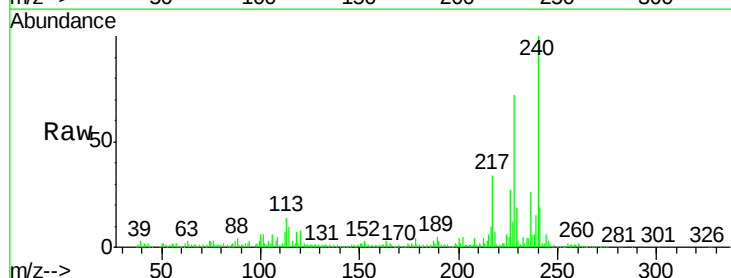
RT: 13.77 min Scan# 1066

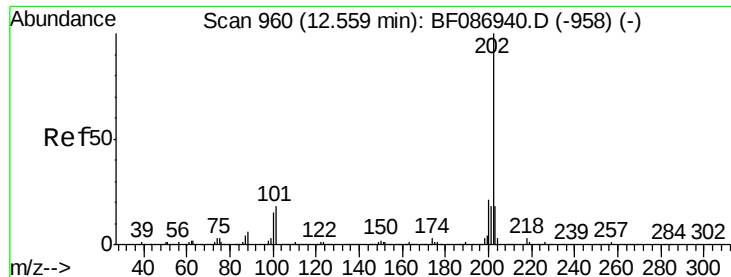
Delta R.T. 0.00 min

Lab File: BF086948.D

Acq: 12 May 2016 23:48

Tgt Ion:	240	Resp:	268926
Ion Ratio	Lower	Upper	
240	100		
120	8.2	11.2	16.8#
236	26.4	21.2	31.8





#77

Pyrene

Concen: 62.06 ng

RT: 12.57 min Scan# 961

Delta R.T. 0.00 min

Lab File: BF086948.D

Acq: 12 May 2016 23:48

Instrument :

BNA_F

ClientSampleId :

CH-STA-1767-00(0-2)

Tgt Ion:202 Resp: 1277805

Ion Ratio Lower Upper

202 100

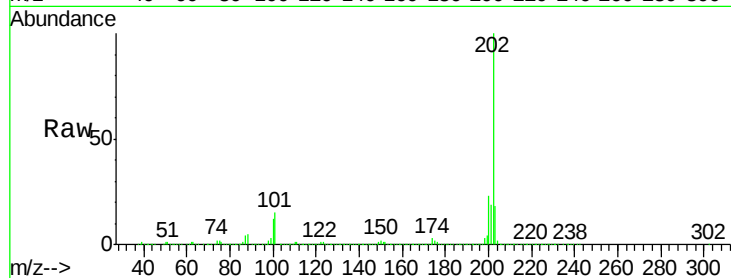
200 22.7 17.7 26.5

203 18.1 14.2 21.4

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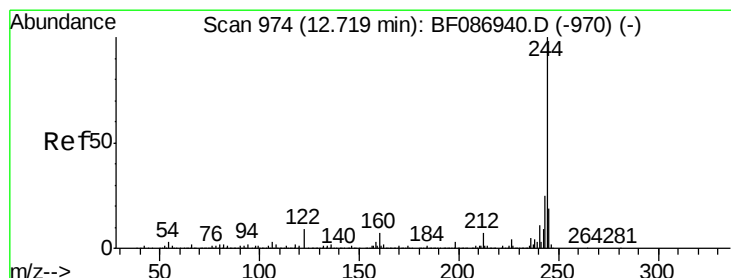
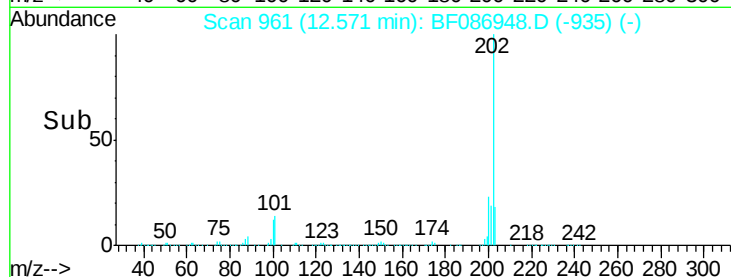
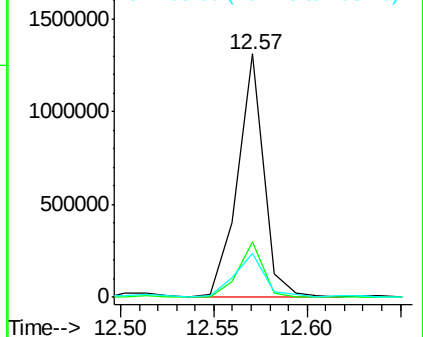
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 45.29 ng

RT: 12.72 min Scan# 974

Delta R.T. 0.00 min

Lab File: BF086948.D

Acq: 12 May 2016 23:48

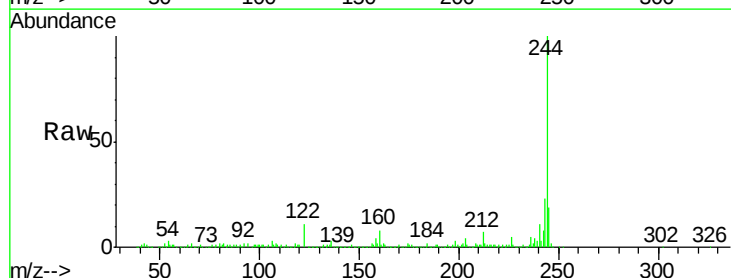
Tgt Ion:244 Resp: 574026

Ion Ratio Lower Upper

244 100

212 7.4 6.2 9.2

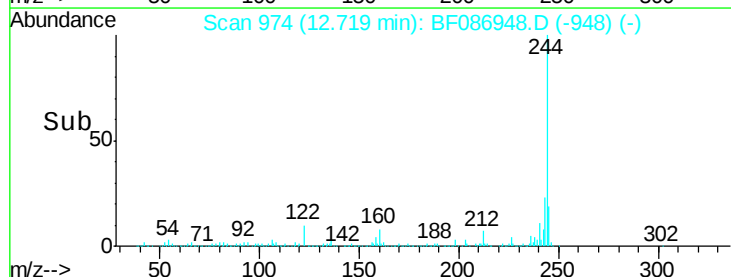
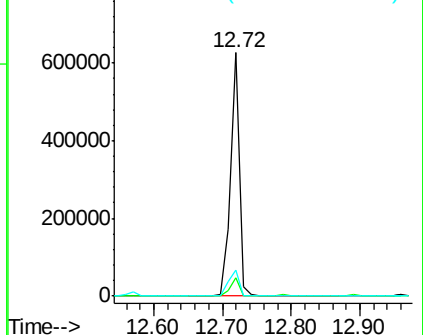
122 10.6 12.0 18.0#

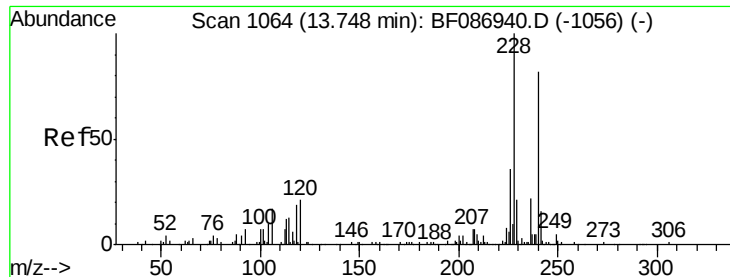


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 59.69 ng

RT: 13.76 min Scan# 1065

Delta R.T. 0.00 min

Lab File: BF086948.D

Acq: 12 May 2016 23:48

Instrument :

BNA_F

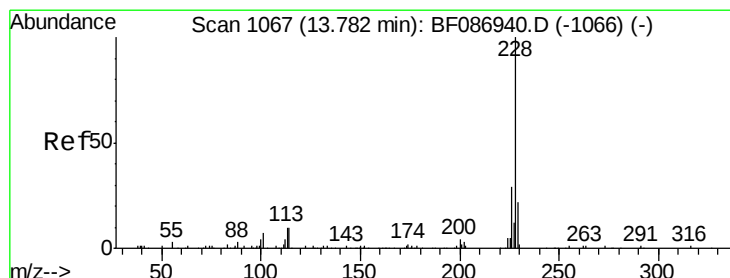
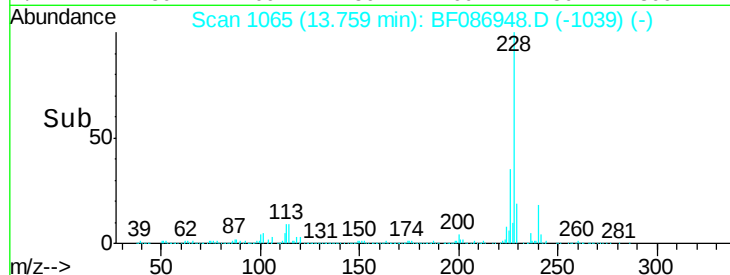
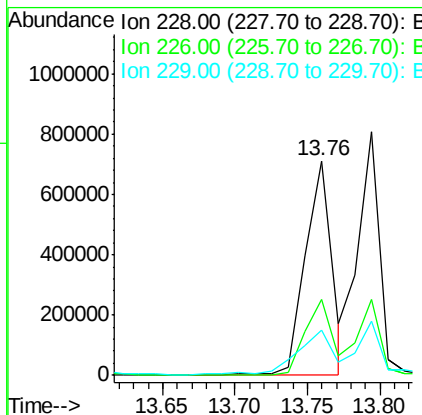
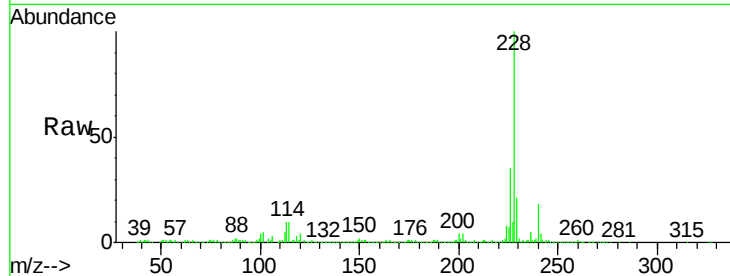
ClientSampleId :

CH-STA-1767-00(0-2)

Tgt Ion:	228	Resp:	901155
Ion Ratio		Lower	Upper
228	100		
226	35.4	22.5	33.7#
229	21.0	16.6	25.0

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#82

Chrysene

Concen: 54.57 ng m

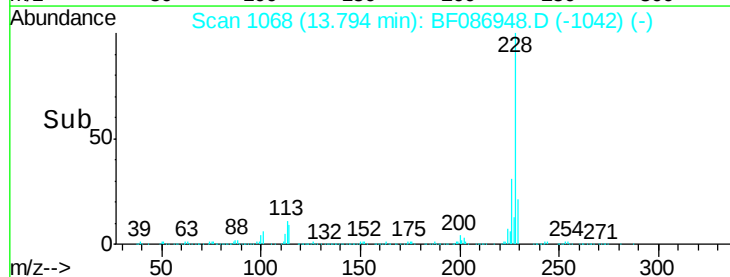
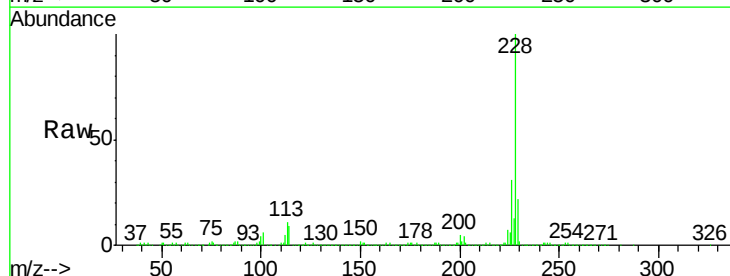
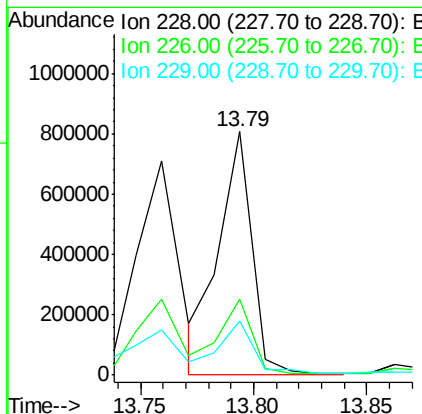
RT: 13.79 min Scan# 1068

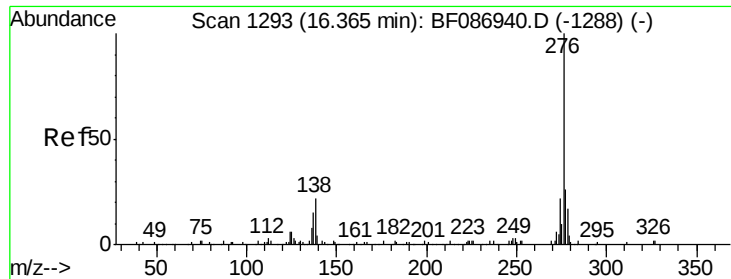
Delta R.T. 0.00 min

Lab File: BF086948.D

Acq: 12 May 2016 23:48

Tgt Ion:	228	Resp:	838071
Ion Ratio		Lower	Upper
228	100		
226	31.3	24.4	36.6
229	22.2	15.8	23.8





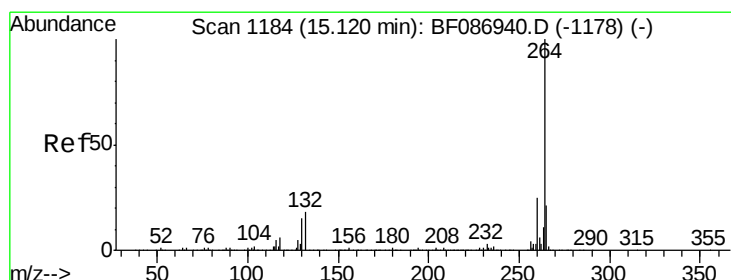
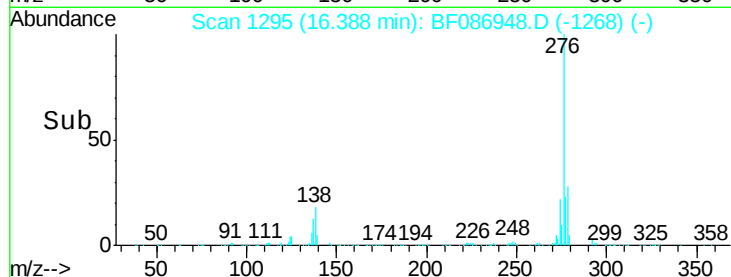
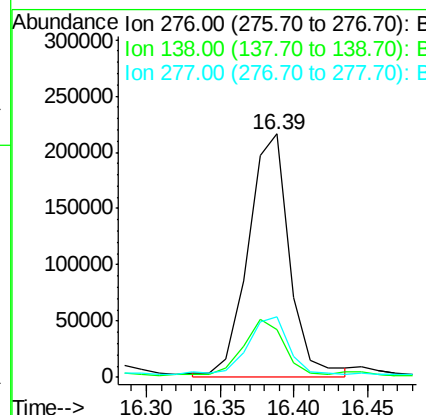
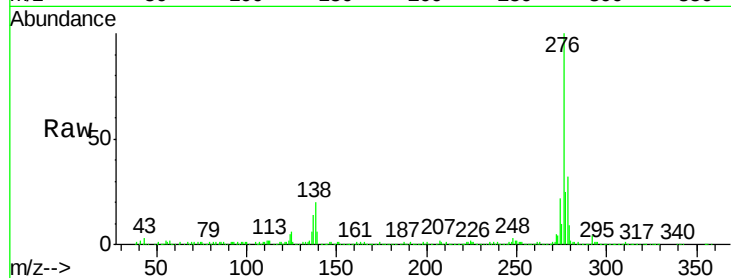
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 33.38 ng m
 RT: 16.39 min Scan# 1295
 Delta R.T. 0.01 min
 Lab File: BF086948.D
 Acq: 12 May 2016 23:48

Instrument :
 BNA_F
 ClientSampleId :
 CH-STA-1767-00(0-2)

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
138	5.7	25.6	38.4#
277	5.4	20.5	30.7#

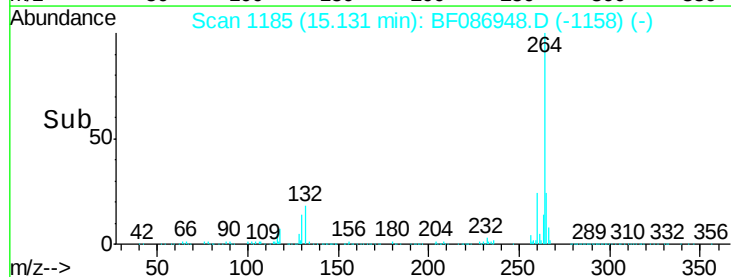
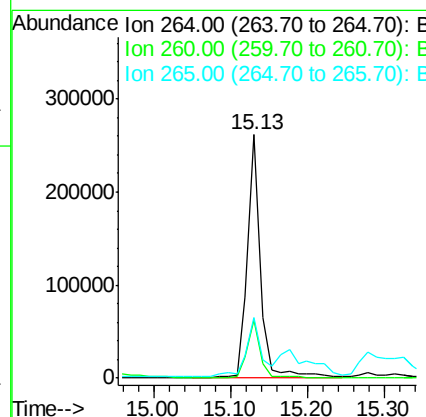
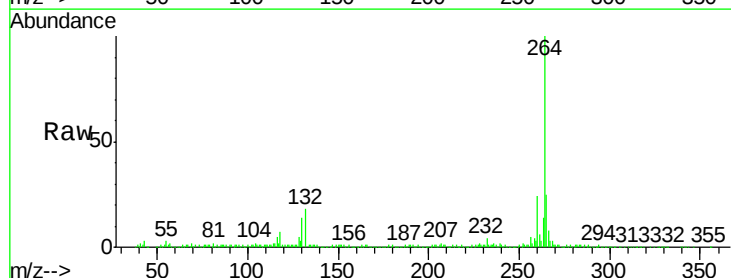
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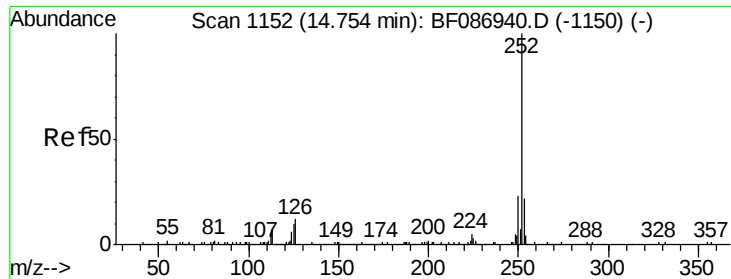
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.13 min Scan# 1185
 Delta R.T. 0.01 min
 Lab File: BF086948.D
 Acq: 12 May 2016 23:48

Tgt Ion	Ratio	Resp Lower	Upper
264	100		
260	24.1	19.5	29.3
265	24.8	17.3	25.9





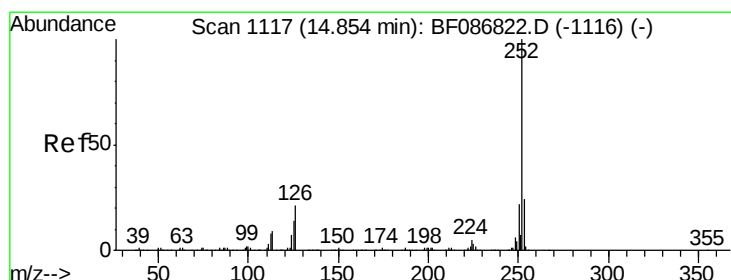
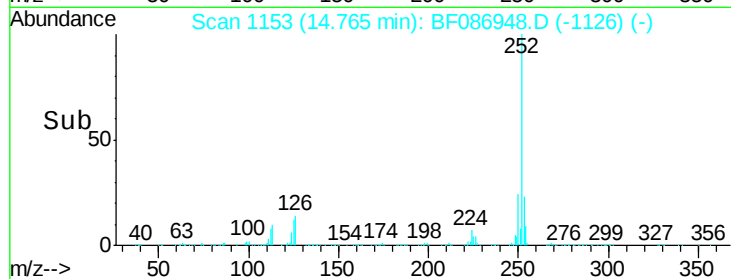
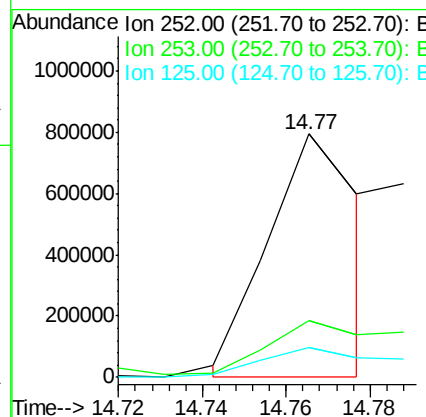
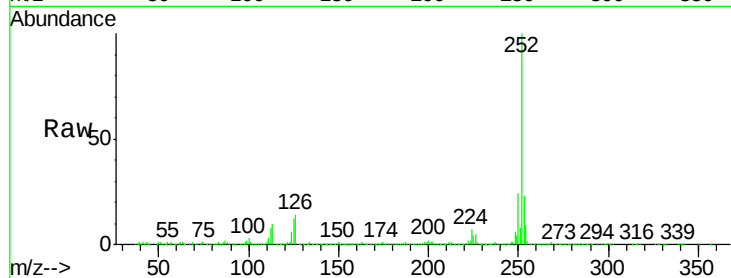
#87
Benzo(b)fluoranthene
Concen: 60.33 ng m
RT: 14.77 min Scan# 1153
Delta R.T. 0.01 min
Lab File: BF086948.D
Acq: 12 May 2016 23:48

Instrument :
BNA_F
ClientSampleId :
CH-STA-1767-00(0-2)

Tgt Ion:252 Resp: 1217656
Ion Ratio Lower Upper
252 100
253 23.1 17.8 26.6
125 12.5 11.4 17.0

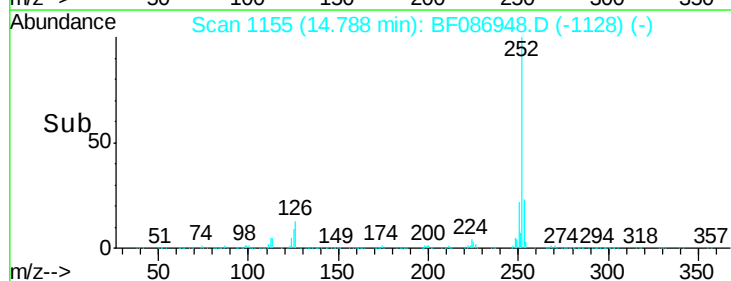
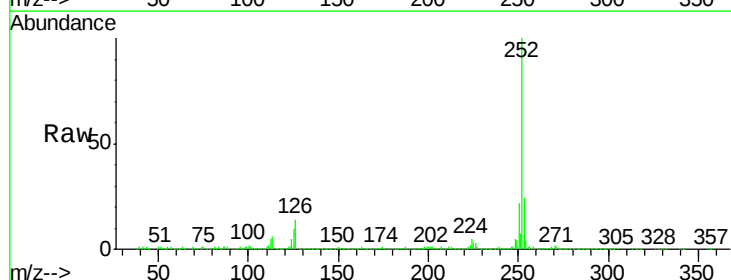
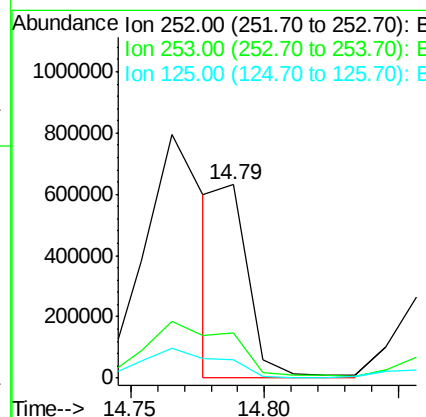
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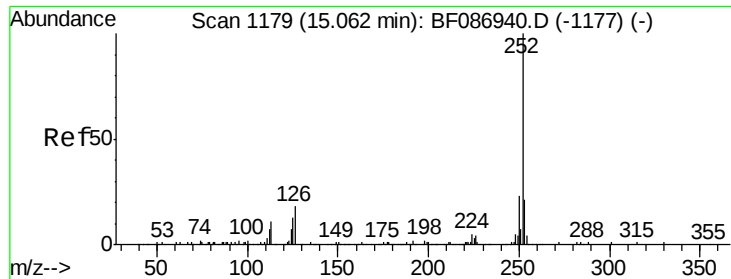
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#88
Benzo(k)fluoranthene
Concen: 30.17 ng m
RT: 14.79 min Scan# 1155
Delta R.T. 0.01 min
Lab File: BF086948.D
Acq: 12 May 2016 23:48

Tgt Ion:252 Resp: 498684
Ion Ratio Lower Upper
252 100
253 23.7 17.8 26.6
125 9.6 9.1 13.7





#89

Benzo(a)pyrene

Concen: 41.20 ng m

RT: 15.07 min Scan# 1180

Delta R.T. 0.00 min

Lab File: BF086948.D

Acq: 12 May 2016 23:48

Instrument :

BNA_F

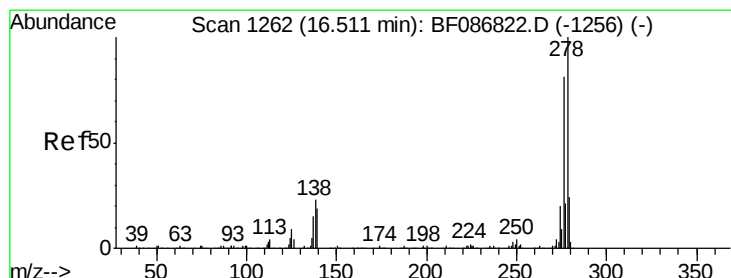
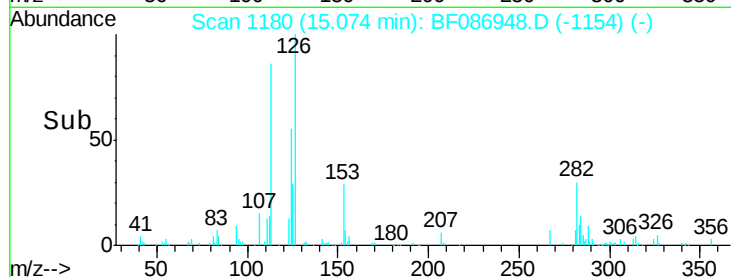
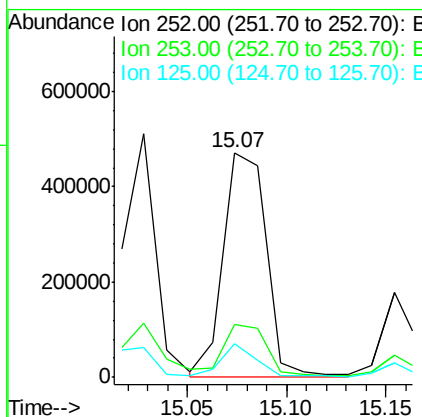
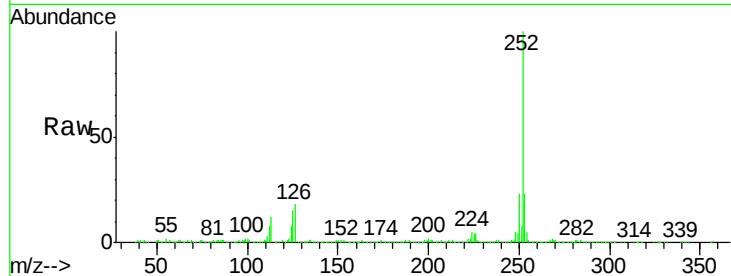
ClientSampleId :

CH-STA-1767-00(0-2)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.2	25.8
125	14.8	9.0	13.6

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#90

Dibenzo(a,h)anthracene

Concen: 9.61 ng

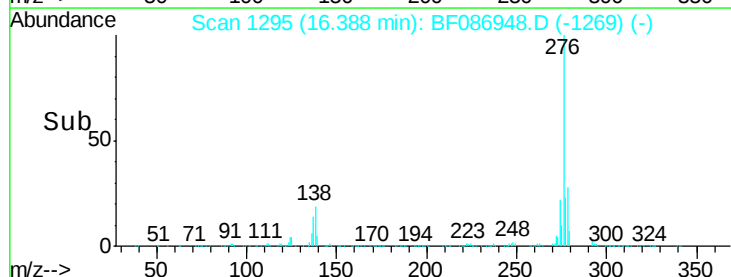
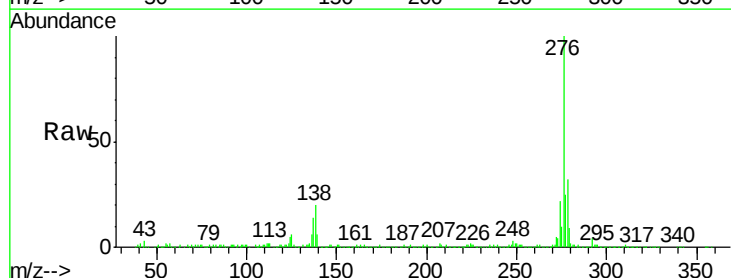
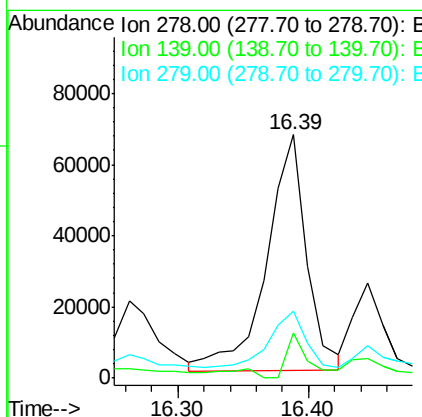
RT: 16.39 min Scan# 1295

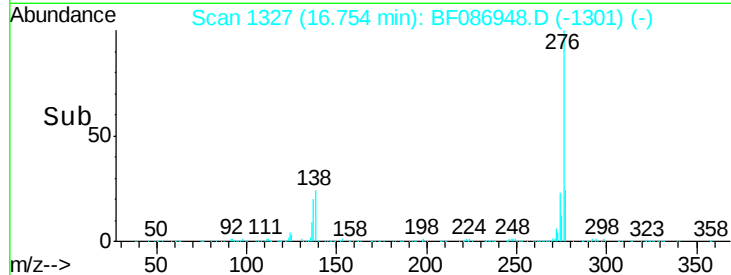
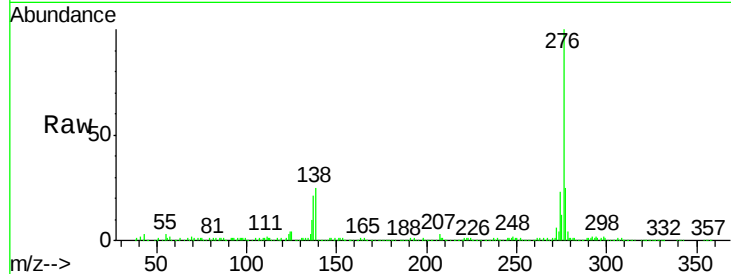
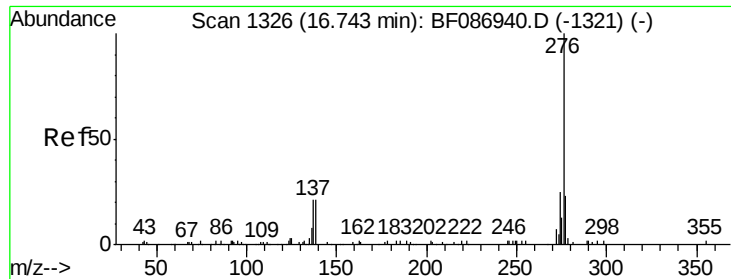
Delta R.T. 0.00 min

Lab File: BF086948.D

Acq: 12 May 2016 23:48

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.8	16.6	24.8
279	27.6	19.6	29.4





#91
 Benzo(g,h,i)perylene
 Concen: 22.14 ng
 RT: 16.75 min Scan# 1327
 Delta R.T. 0.00 min
 Lab File: BF086948.D
 Acq: 12 May 2016 23:48

Instrument :
 BNA_F
 ClientSampleId :
 CH-STA-1767-00(0-2)

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.6	29.4
138	25.0	23.6	35.4

Manual Integrations
 APPROVED

sohil
 5/13/2016 8:07:40 PM

