

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051616\
 Data File : BF087085.D
 Acq On : 16 May 2016 17:01
 Operator : UM/SJ
 Sample : H2994-11RE
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CH-STA-1720-00(0-2)RE

Manual Integrations
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Quant Time: May 17 13:07:01 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 17 01:12:04 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.60	152	145050	20.00	ng	0.00
21) Naphthalene-d8	7.90	136	545295	20.00	ng	0.00
38) Acenaphthene-d10	9.64	164	210531	20.00	ng	0.00
63) Phenanthrene-d10	11.12	188	330407	20.00	ng	0.00
75) Chrysene-d12	13.76	240	294957	20.00	ng	0.00
86) Perylene-d12	15.12	264	239196	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.20	112	771251	90.05	ng	0.00
7) Phenol-d6	6.27	99	948240	82.84	ng	-0.01
23) Nitrobenzene-d5	7.18	82	605048	55.71	ng	-0.01
41) 2,4,6-Tribromophenol	10.43	330	162983	73.13	ng	-0.01
44) 2-Fluorobiphenyl	8.97	172	855709	68.31	ng	-0.01
78) Terphenyl-d14	12.71	244	664800	47.82	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.92	128	137954	5.05	ng	99
37) 2-Methylnaphthalene	8.60	142	74306	4.65	ng	97
48) Acenaphthylene	9.51	152	262065	13.58	ng	98
49) Dimethylphthalate	9.37	163	88345	5.50	ng	99
54) Dibenzofuran	9.85	168	43472	2.82	ng	# 96
57) Fluorene	10.19	166	27793	2.11	ng	# 92
70) Phenanthrene	11.14	178	383611	21.76	ng	100
71) Anthracene	11.20	178	261610	14.51	ng	98
72) Carbazole	11.36	167	57174	3.69	ng	97
74) Fluoranthene	12.33	202	1210093	66.72	ng	99
77) Pyrene	12.56	202	1140534	50.51	ng	99
80) Benzo(a)anthracene	13.75	228	891377	53.83	ng	# 93
82) Chrysene	13.78	228	504351m	29.94	ng	
85) Indeno(1,2,3-cd)pyrene	16.38	276	296425	21.15	ng	# 88
87) Benzo(b)fluoranthene	14.75	252	815233m	52.44	ng	
88) Benzo(k)fluoranthene	14.78	252	320981m	25.22	ng	
89) Benzo(a)pyrene	15.07	252	479446m	35.76	ng	
90) Dibenzo(a,h)anthracene	16.38	278	75726m	6.70	ng	
91) Benzo(a,h,i)perylene	16.75	276	247083	21.52	ng	# 90

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

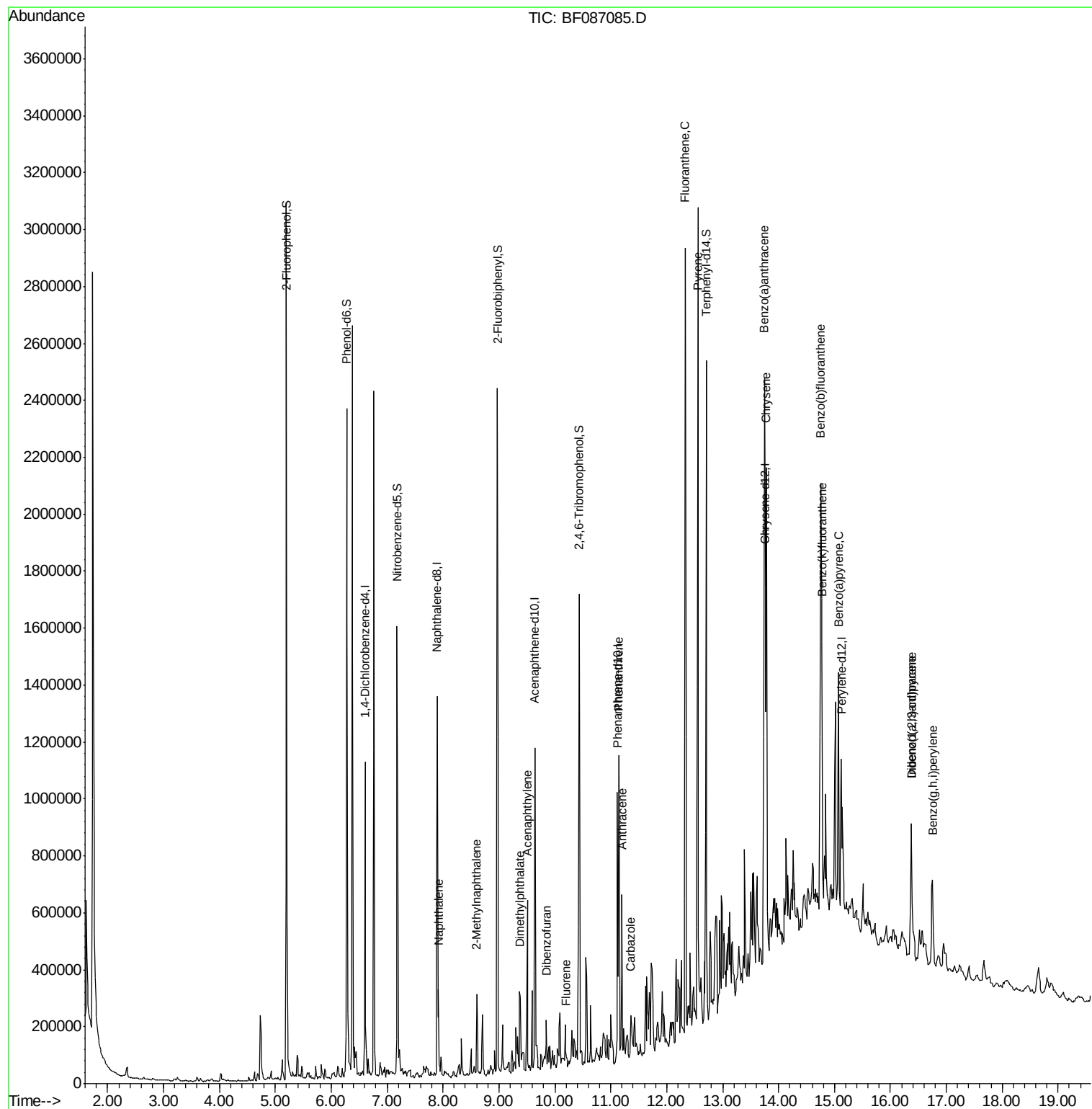
Data Path : Z:\HPCHEM1\BNA F\DATA\BF051616\
Data File : BF087085.D
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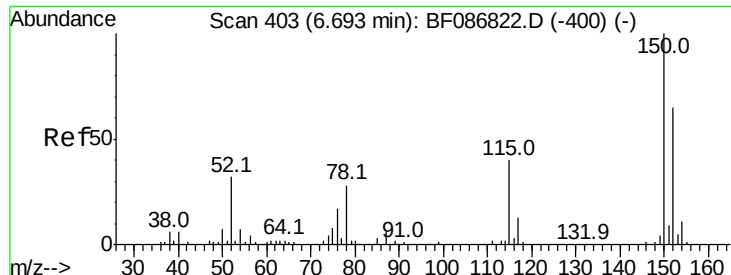
Instrument :
BNA_F
ClientSampleId :
CH-STA-1720-00(0-2)RE

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Quant Time: May 17 13:07:01 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 17 01:12:04 2016
Response via : Initial Calibration





#1

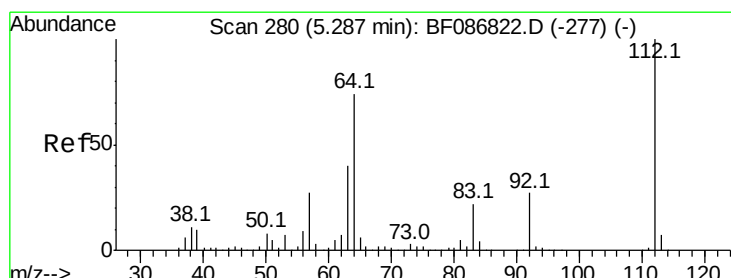
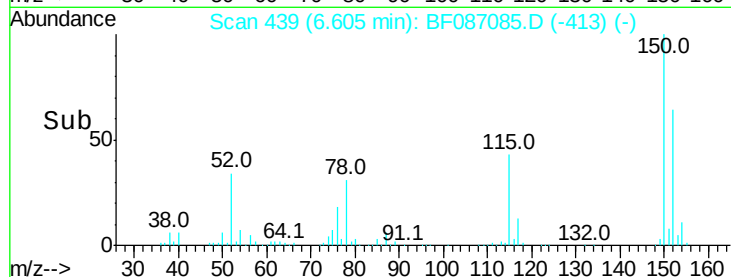
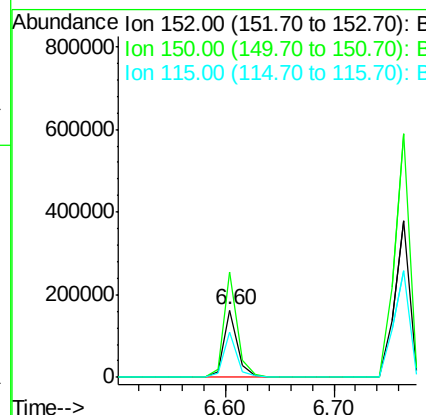
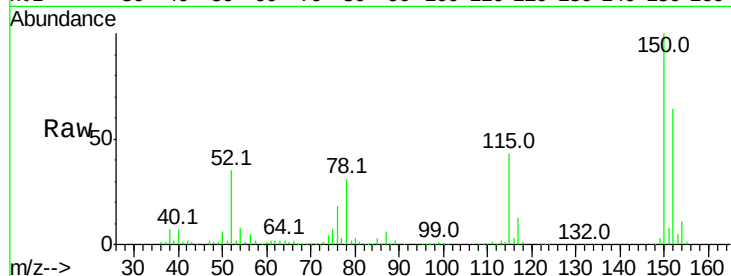
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.60 min Scan# 439
Delta R.T. 0.00 min
Lab File: BF087085.D
Acq: 16 May 2016 17:01

Instrument :
BNA_F
ClientSampleId :
CH-STA-1720-00(0-2)RE

Tot Ion	Ratio	Resp	Lower	Upper
152	100	145050		
150	156.1	125.8	188.6	
115	67.1	51.5	77.3	

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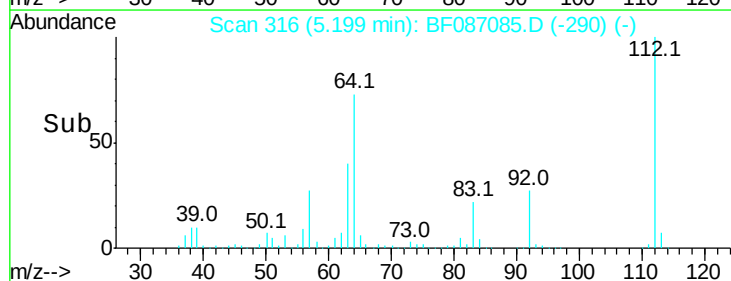
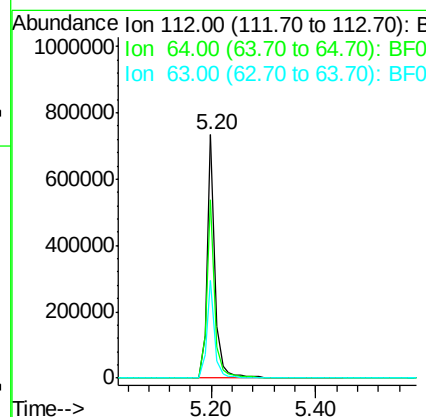
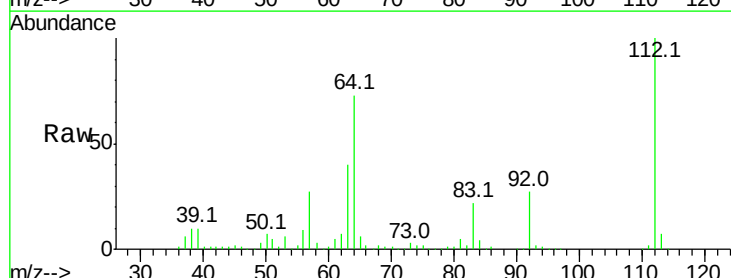
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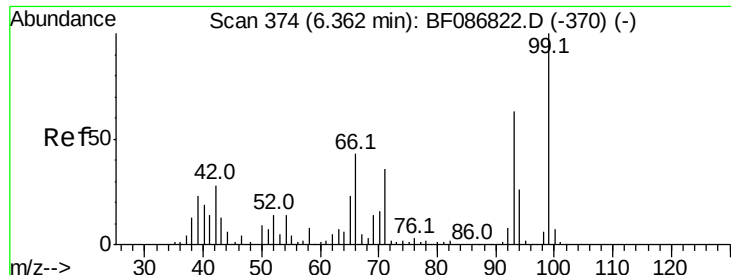


#5

2-Fluorophenol
Concen: 90.05 ng
RT: 5.20 min Scan# 316
Delta R.T. 0.00 min
Lab File: BF087085.D
Acq: 16 May 2016 17:01

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	771251		
64	73.2	52.1	78.1	
63	39.9	25.7	38.5	





#7

Phenol-d6

Concen: 82.84 ng

RT: 6.27 min Scan# 410

Delta R.T. -0.01 min

Lab File: BF087085.D

Acq: 16 May 2016 17:01

Instrument :

BNA_F

ClientSampleId :

CH-STA-1720-00(0-2)RE

Tot Ion: 99 Resp: 948240

Ion Ratio Lower Upper

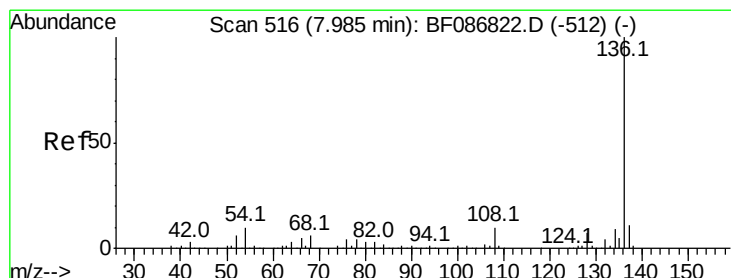
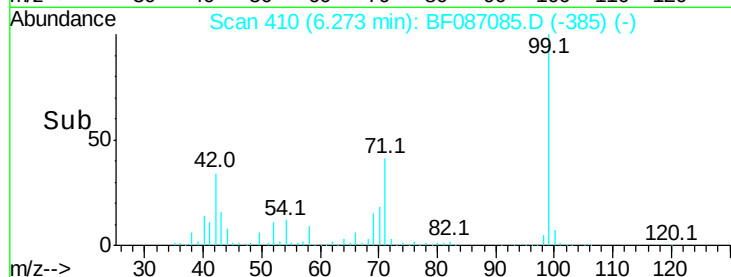
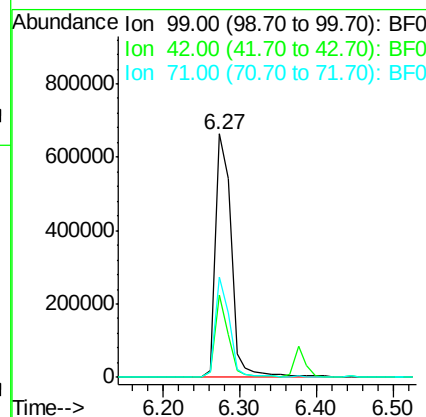
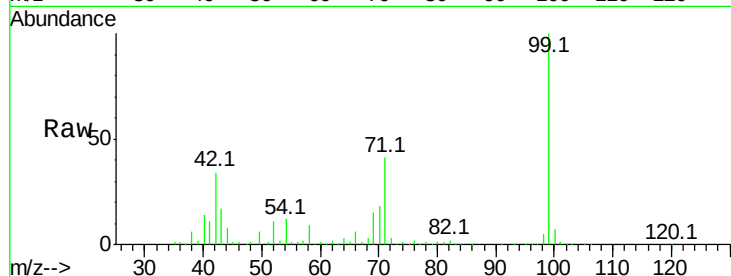
99 100

42 33.7 13.6 20.4#

71 41.1 24.6 36.8#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.90 min Scan# 552

Delta R.T. 0.00 min

Lab File: BF087085.D

Acq: 16 May 2016 17:01

Tgt Ion: 136 Resp: 545295

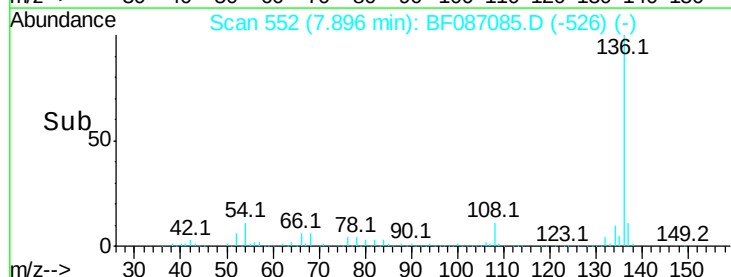
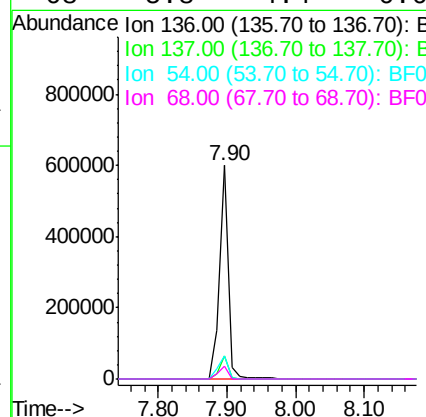
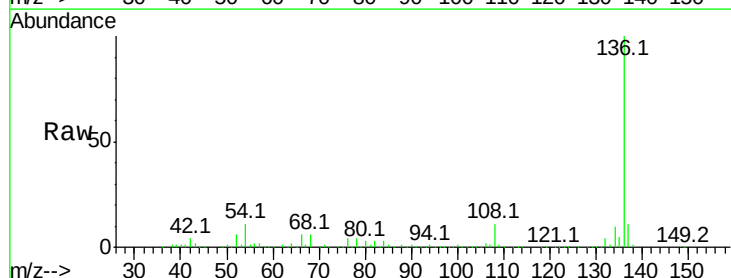
Ion Ratio Lower Upper

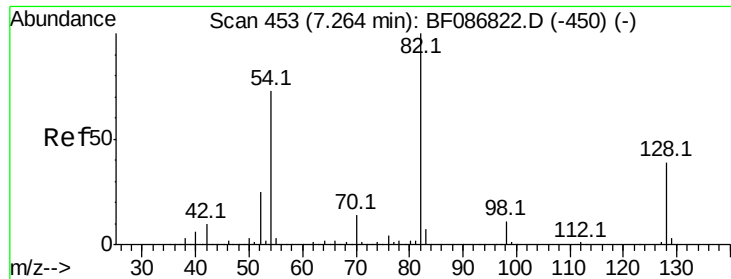
136 100

137 10.9 8.8 13.2

54 10.8 5.0 7.4#

68 5.8 4.4 6.6





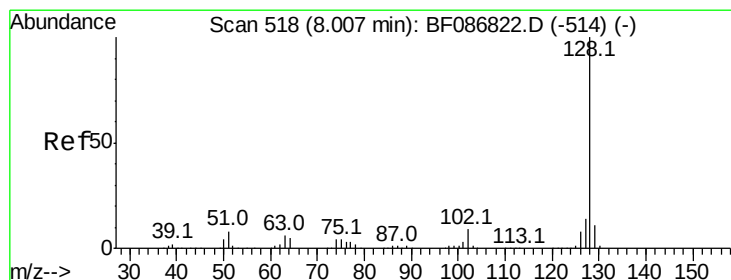
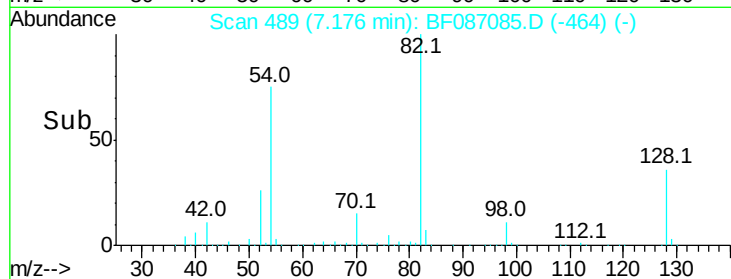
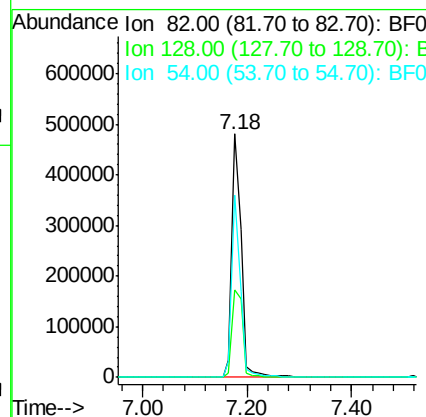
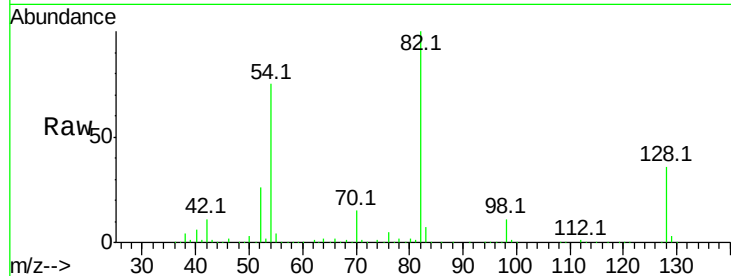
#23
 Nitrobenzene-d5
 Concen: 55.71 ng
 RT: 7.18 min Scan# 489
 Delta R.T. -0.01 min
 Lab File: BF087085.D
 Acq: 16 May 2016 17:01

Instrument :
 BNA_F
 ClientSampleId :
 CH-STA-1720-00(0-2)RE

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	35.7	40.6	61.0#	
54	74.9	38.1	57.1#	

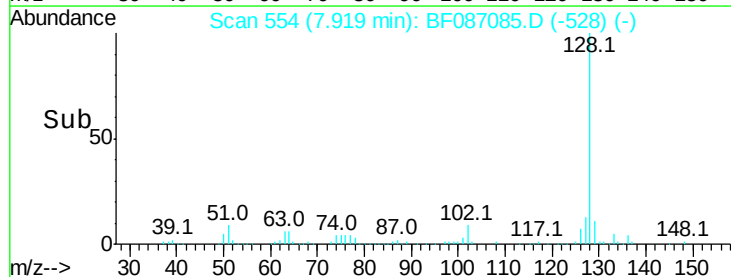
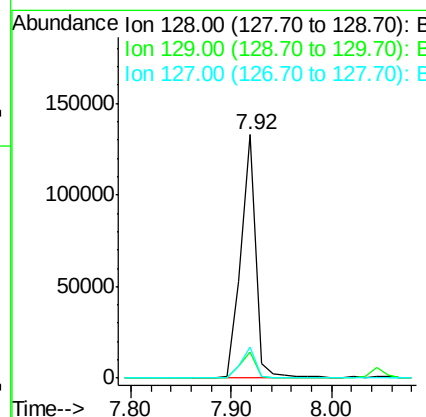
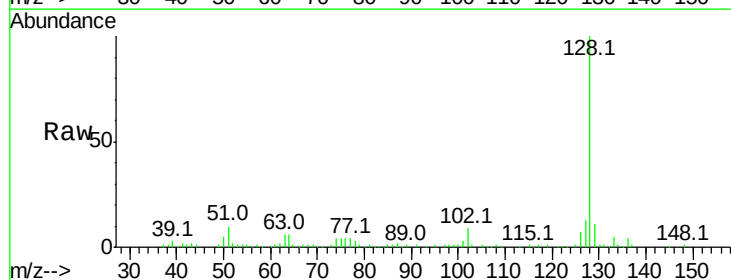
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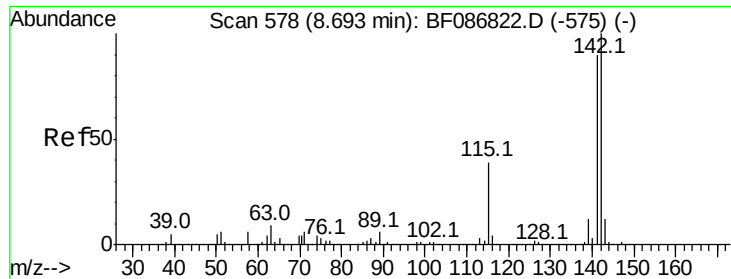
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#31
 Naphthalene
 Concen: 5.05 ng
 RT: 7.92 min Scan# 554
 Delta R.T. 0.00 min
 Lab File: BF087085.D
 Acq: 16 May 2016 17:01

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





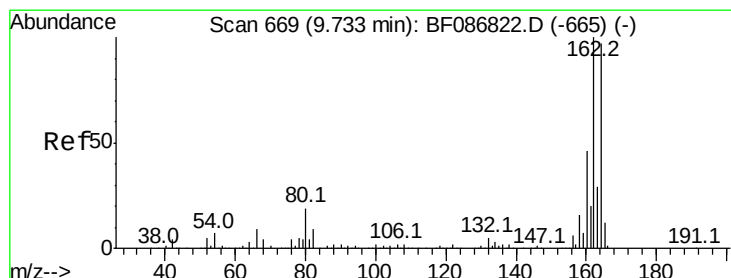
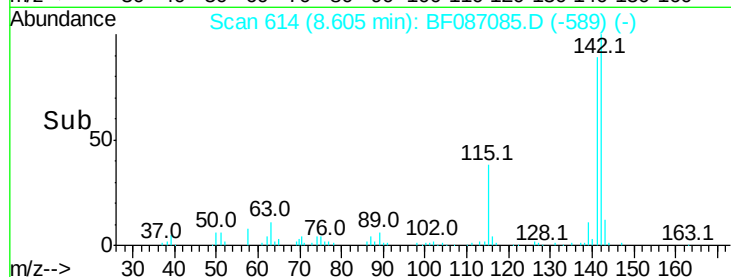
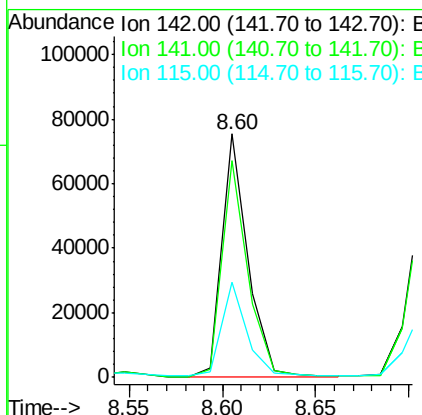
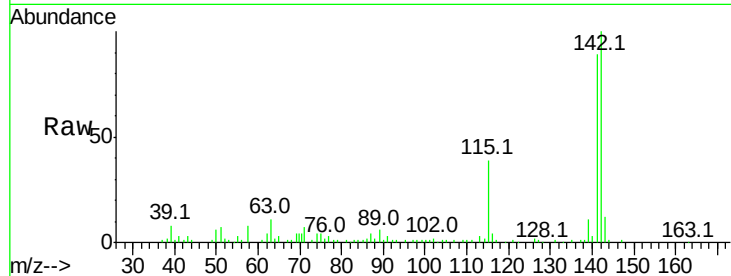
#37
2-Methylnaphthalene
Concen: 4.65 ng
RT: 8.60 min Scan# 614
Delta R.T. -0.01 min
Lab File: BF087085.D
Acq: 16 May 2016 17:01

Instrument :
BNA_F
ClientSampleId :
CH-STA-1720-00(0-2)RE

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.2	71.0	106.6
115	38.9	26.6	39.8

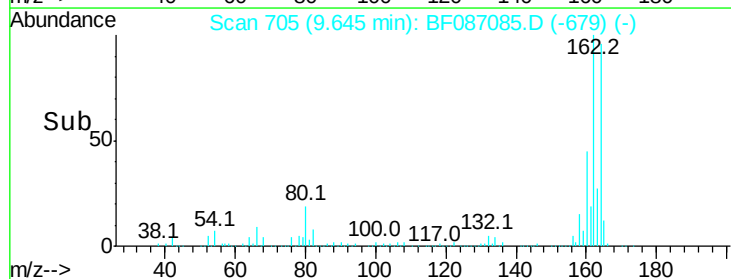
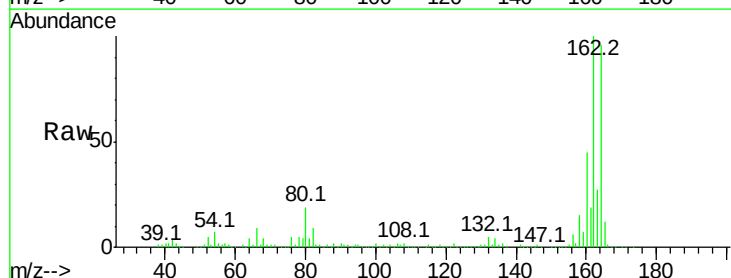
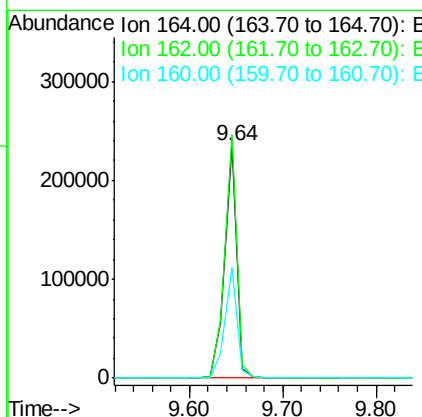
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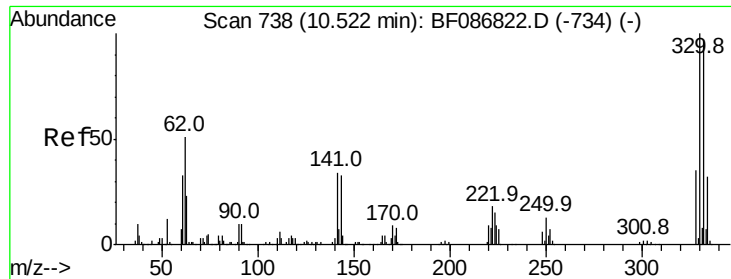
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.64 min Scan# 705
Delta R.T. 0.00 min
Lab File: BF087085.D
Acq: 16 May 2016 17:01

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.6	82.8	124.2
160	47.4	36.9	55.3





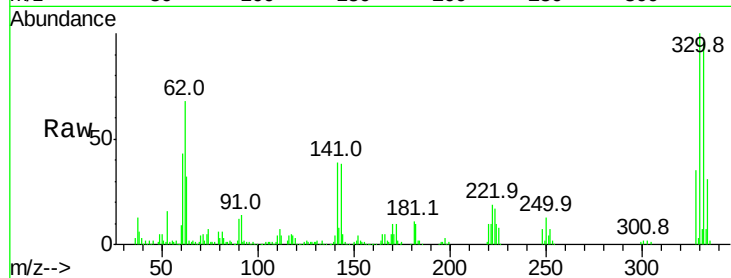
#41
 2,4,6-Tribromophenol
 Concen: 73.13 ng
 RT: 10.43 min Scan# 774
 Delta R.T. -0.01 min
 Lab File: BF087085.D
 Acq: 16 May 2016 17:01

Instrument :
 BNA_F
 ClientSampleId :
 CH-STA-1720-00(0-2)RE

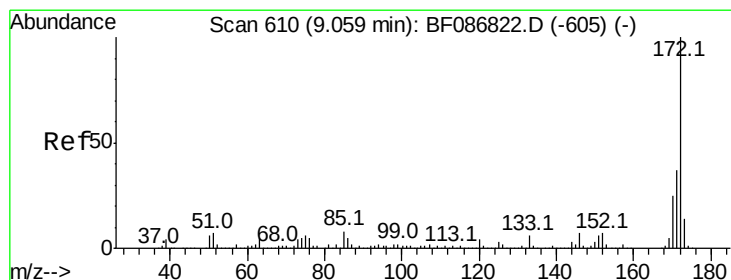
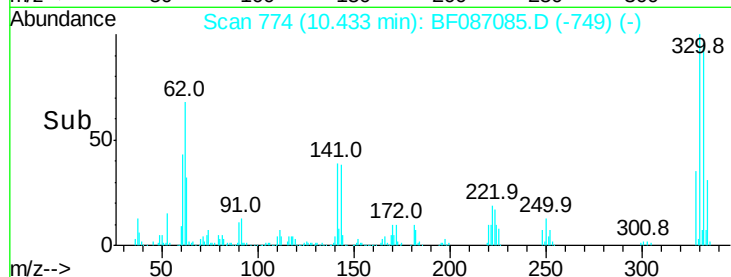
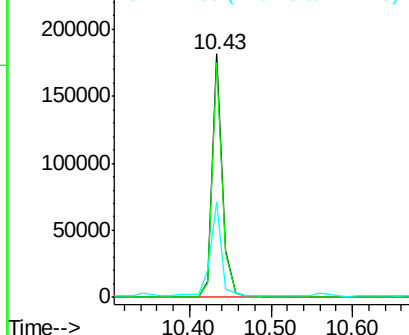
Tot Ion	Ratio	Resp	Lower	Upper
330	100	162983		
332	95.8	79.0	118.4	
141	43.9	31.2	46.8	

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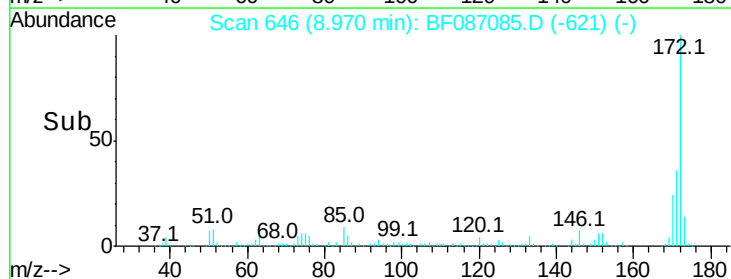
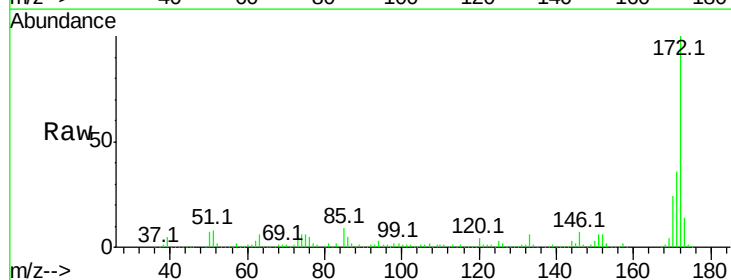
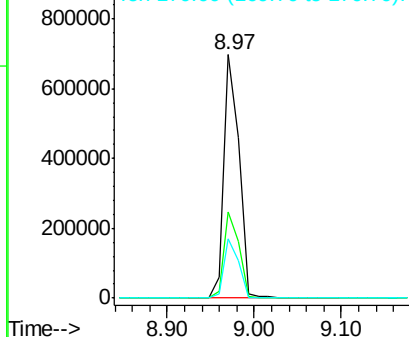
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

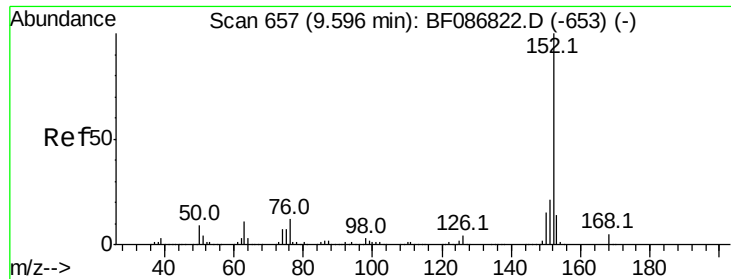


#44
 2-Fluorobiphenyl
 Concen: 68.31 ng
 RT: 8.97 min Scan# 646
 Delta R.T. -0.01 min
 Lab File: BF087085.D
 Acq: 16 May 2016 17:01

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	855709		
171	35.5	29.0	43.6	
170	24.1	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: 13.58 ng

RT: 9.51 min Scan# 693

Delta R.T. 0.00 min

Lab File: BF087085.D

Acq: 16 May 2016 17:01

Instrument :

BNA_F

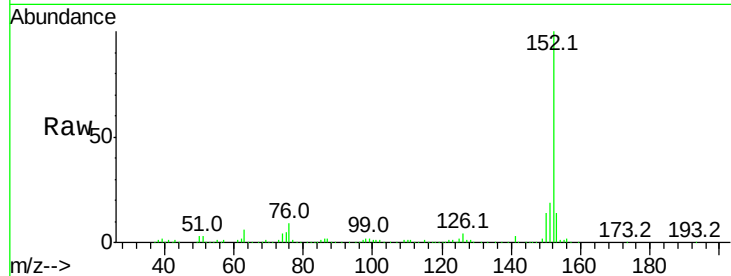
ClientSampleId :

CH-STA-1720-00(0-2)RE

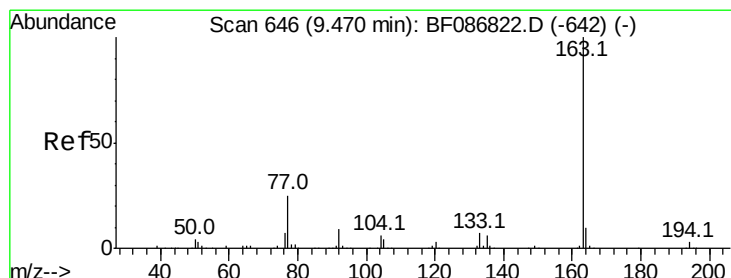
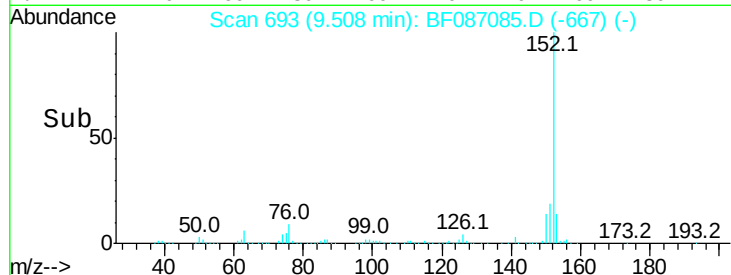
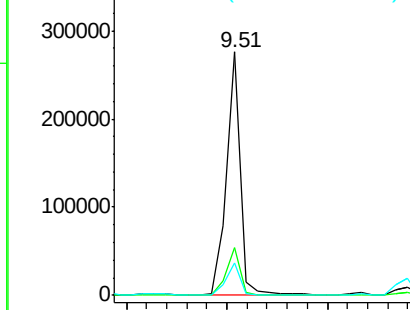
Tot Ion	Ratio	Resp	Lower	Upper
152	100	262065		
151	19.5		16.8	25.2
153	13.5		10.9	16.3

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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: 5.50 ng

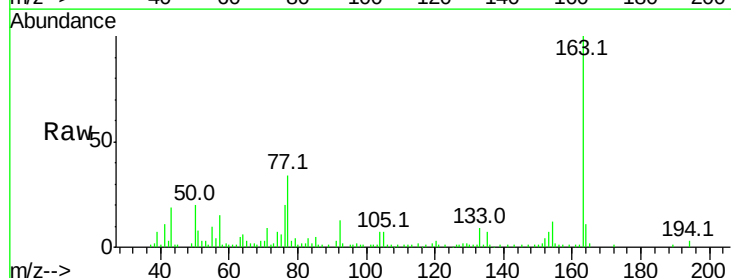
RT: 9.37 min Scan# 681

Delta R.T. -0.02 min

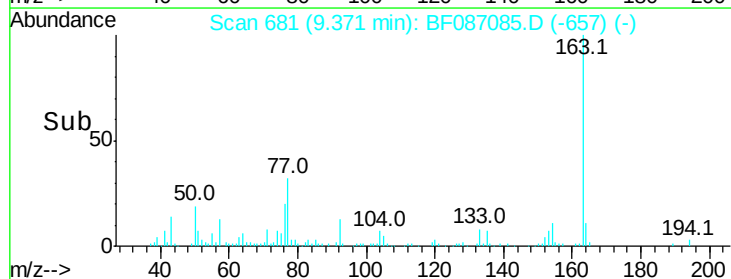
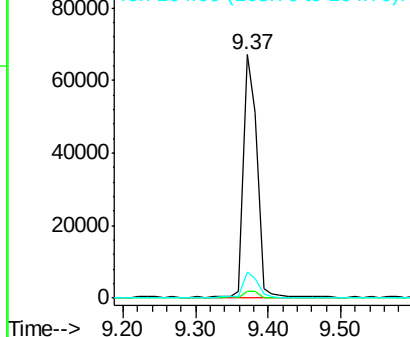
Lab File: BF087085.D

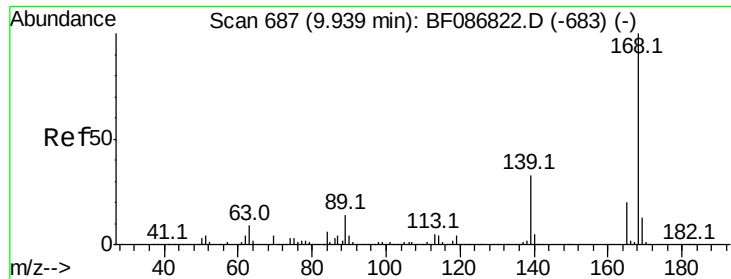
Acq: 16 May 2016 17:01

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	88345		
194	2.8		2.6	4.0
164	10.6		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





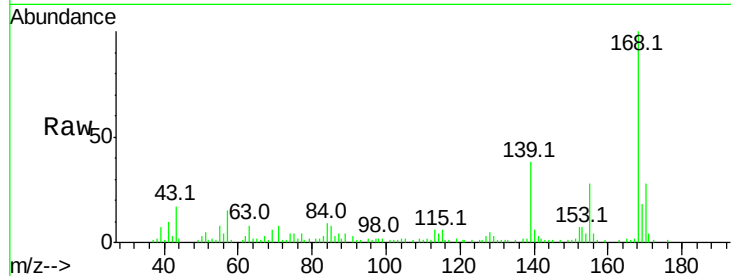
#54
Dibenzenofuran
Concen: 2.82 ng
RT: 9.85 min Scan# 723
Delta R.T. 0.00 min
Lab File: BF087085.D
Acq: 16 May 2016 17:01

Instrument :
BNA_F
ClientSampleId :
CH-STA-1720-00(0-2)RE

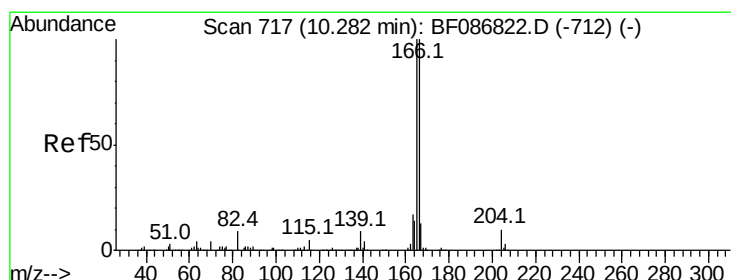
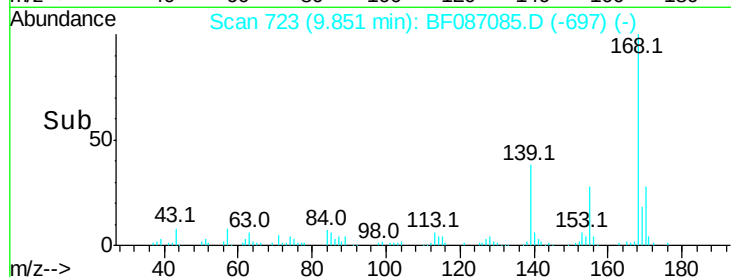
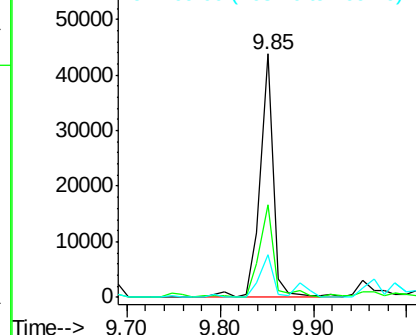
Tot Ion	Ratio	Lower	Upper
168	100		
139	37.8	31.4	47.0
169	17.6	10.7	16.1#

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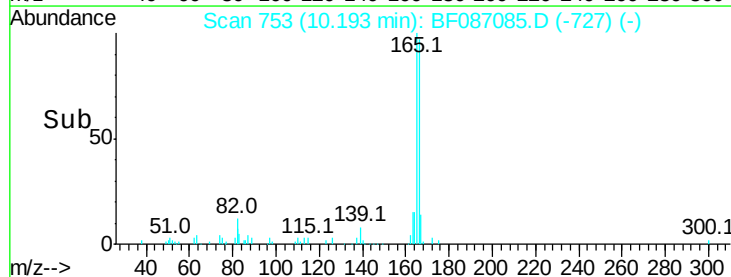
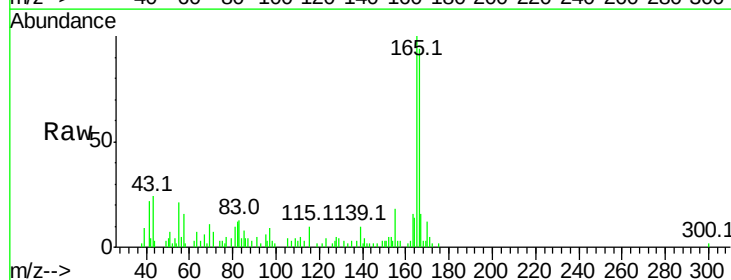
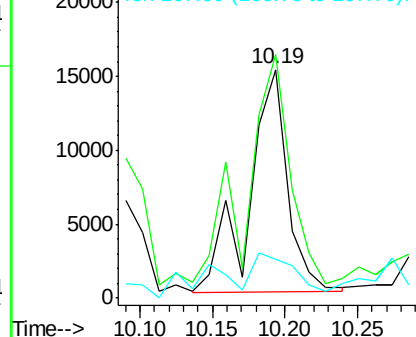
Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

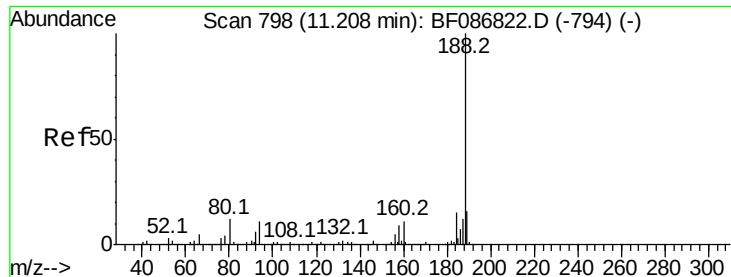


#57
Fluorene
Concen: 2.11 ng
RT: 10.19 min Scan# 753
Delta R.T. 0.00 min
Lab File: BF087085.D
Acq: 16 May 2016 17:01

Tgt Ion	Ratio	Lower	Upper
166	100		
165	106.5	79.0	118.6
167	17.2	10.6	15.8#

Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.12 min Scan# 834

Delta R.T. 0.00 min

Lab File: BF087085.D

Acq: 16 May 2016 17:01

Instrument :

BNA_F

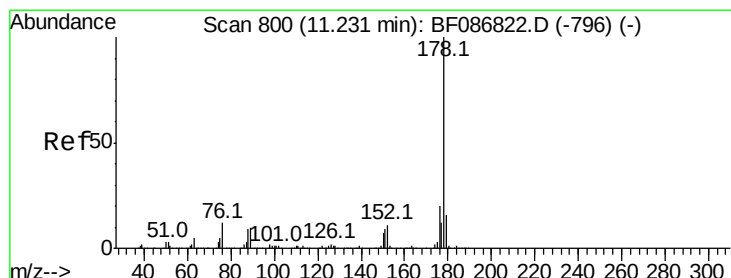
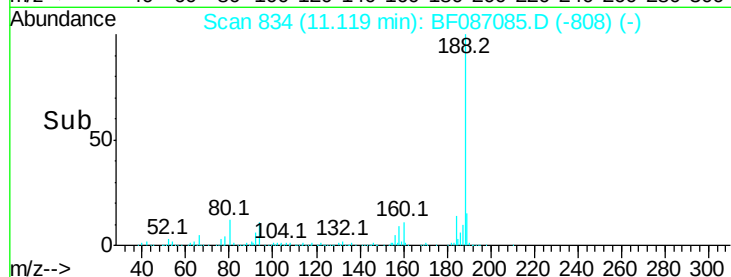
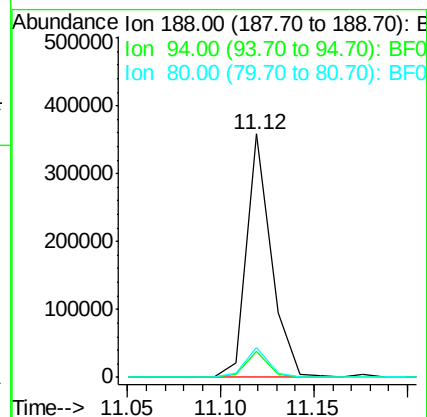
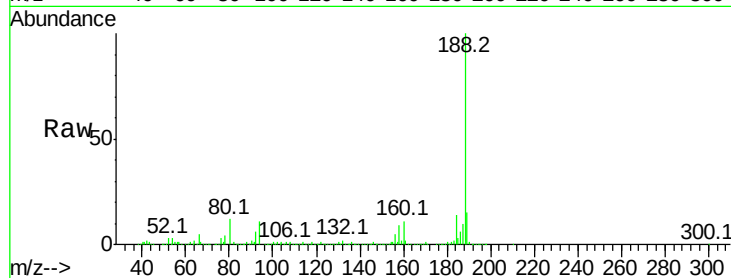
ClientSampleId :

CH-STA-1720-00(0-2)RE

Tot Ion:	188	Resp:	330407
Ion Ratio	Lower	Upper	
188	100		
94	10.9	6.8	10.2#
80	12.3	7.1	10.7#

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#70

Phenanthrene

Concen: 21.76 ng

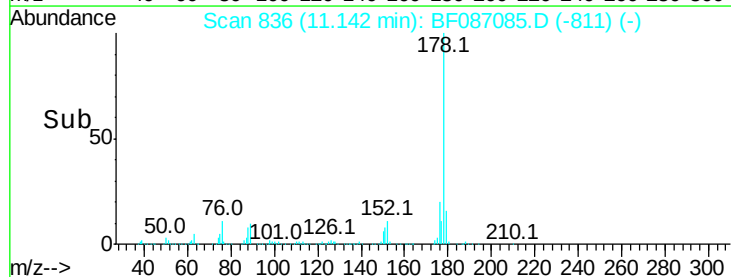
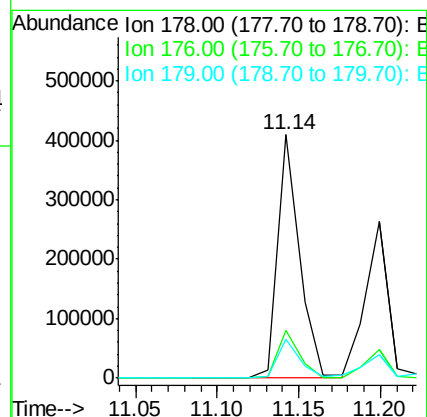
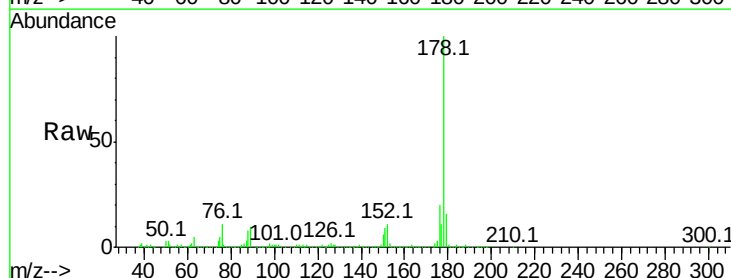
RT: 11.14 min Scan# 836

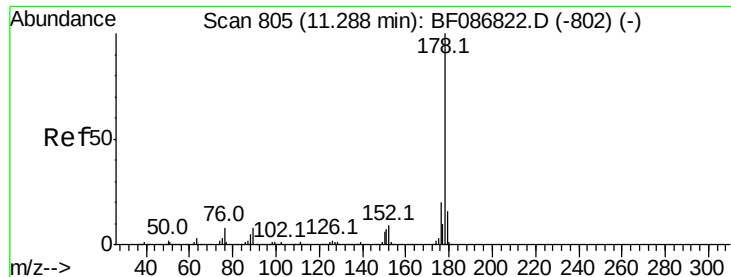
Delta R.T. -0.01 min

Lab File: BF087085.D

Acq: 16 May 2016 17:01

Tgt Ion:	178	Resp:	383611
Ion Ratio	Lower	Upper	
178	100		
176	19.8	16.0	24.0
179	15.7	12.6	18.8





#71

Anthracene

Concen: 14.51 ng

RT: 11.20 min Scan# 841

Delta R.T. 0.00 min

Lab File: BF087085.D

Acq: 16 May 2016 17:01

Instrument :

BNA_F

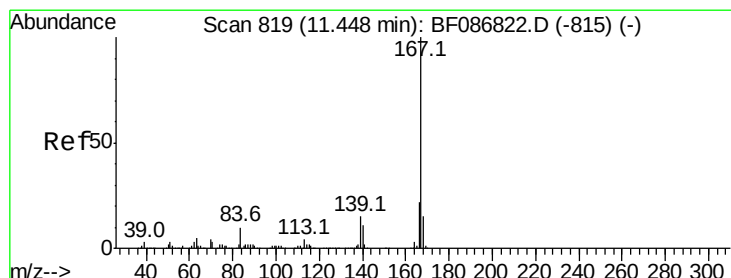
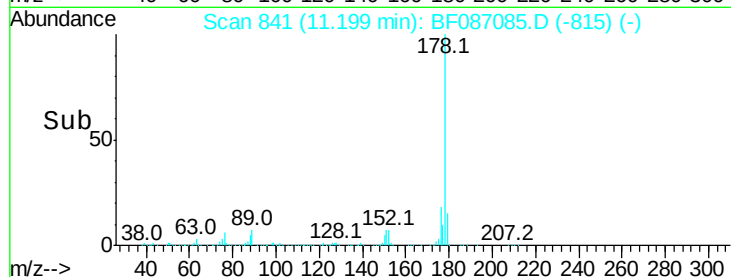
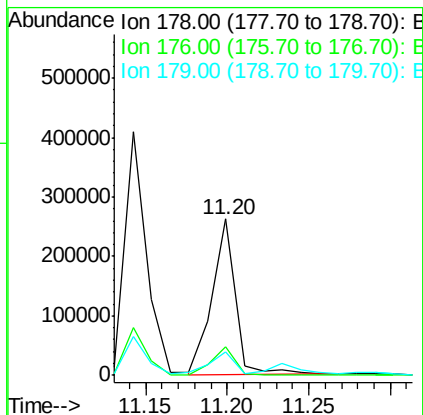
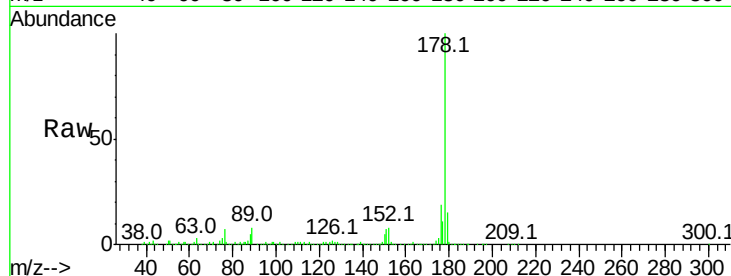
ClientSampleId :

CH-STA-1720-00(0-2)RE

Tot Ion:	178	Resp:	261610
Ion Ratio	Lower	Upper	
178	100		
176	18.6	15.6	23.4
179	15.0	12.7	19.1

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#72

Carbazole

Concen: 3.69 ng

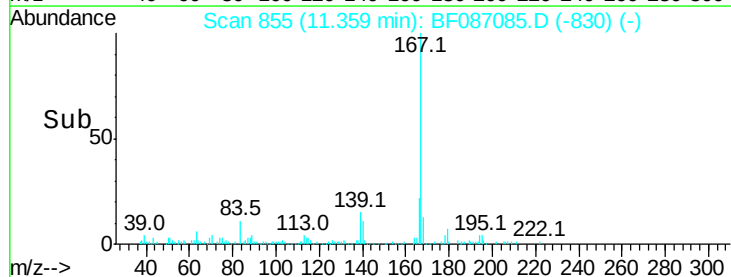
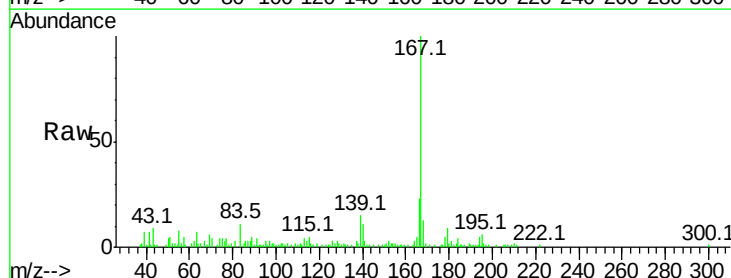
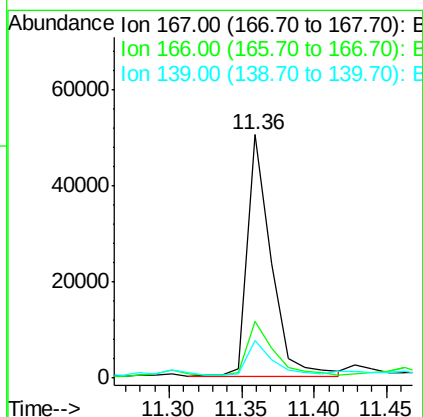
RT: 11.36 min Scan# 855

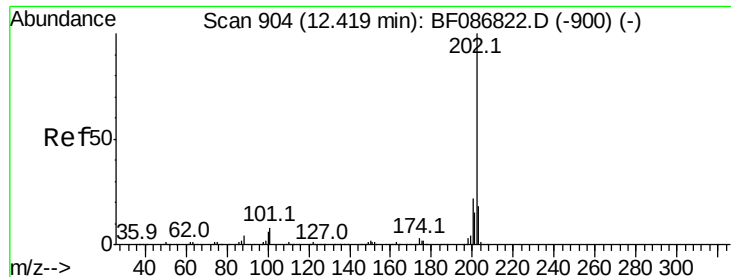
Delta R.T. -0.01 min

Lab File: BF087085.D

Acq: 16 May 2016 17:01

Tgt Ion:	167	Resp:	57174
Ion Ratio	Lower	Upper	
167	100		
166	23.2	17.7	26.5
139	15.4	10.8	16.2





#74

Fluoranthene

Concen: 66.72 ng

RT: 12.33 min Scan# 940

Delta R.T. 0.00 min

Lab File: BF087085.D

Acq: 16 May 2016 17:01

Instrument :

BNA_F

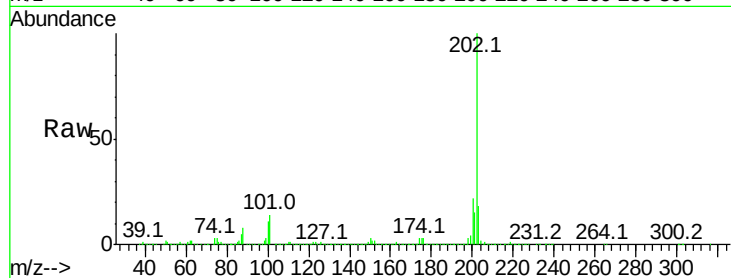
ClientSampleId :

CH-STA-1720-00(0-2)RE

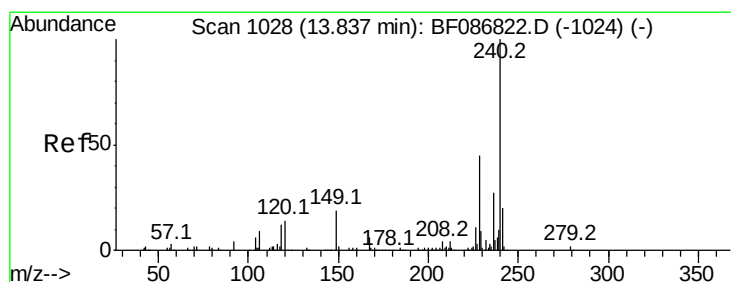
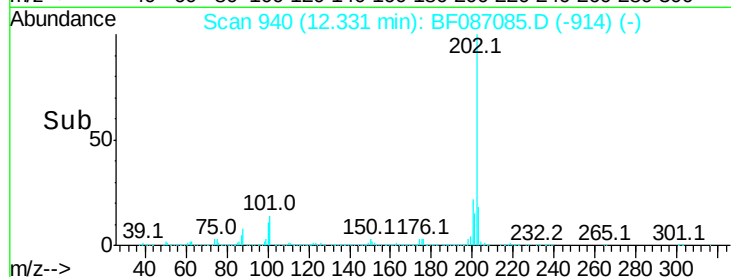
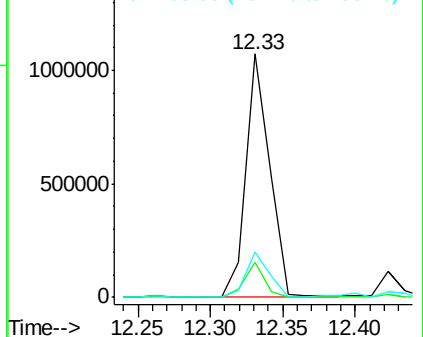
Tot Ion:	202	Resp:	1210093
Ion Ratio	Lower	Upper	
202	100		
101	14.5	0.0	35.4
203	18.5	0.0	38.1

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

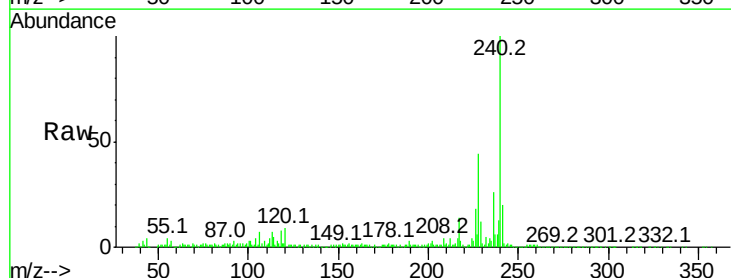
RT: 13.76 min Scan# 1065

Delta R.T. 0.00 min

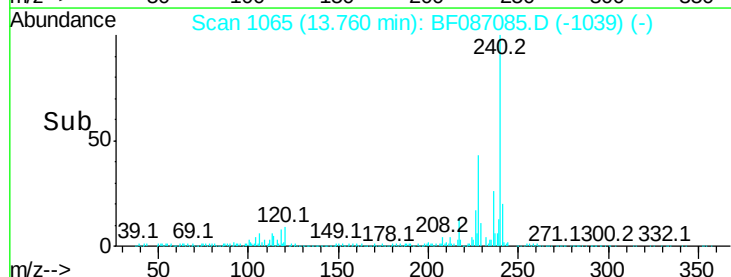
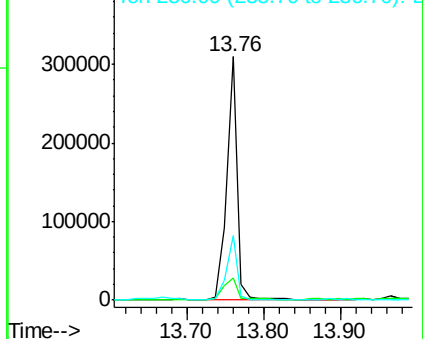
Lab File: BF087085.D

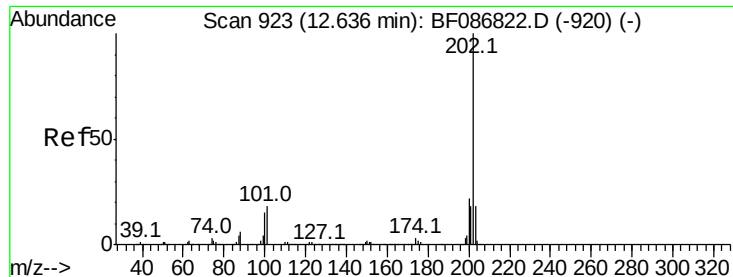
Acq: 16 May 2016 17:01

Tgt Ion:	240	Resp:	294957
Ion Ratio	Lower	Upper	
240	100		
120	9.3	11.2	16.8#
236	26.4	21.2	31.8



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





#77

Pvrene

Concen: 50.51 ng

RT: 12.56 min Scan# 960

Delta R.T. 0.00 min

Lab File: BF087085.D

Acq: 16 May 2016 17:01

Instrument :

BNA_F

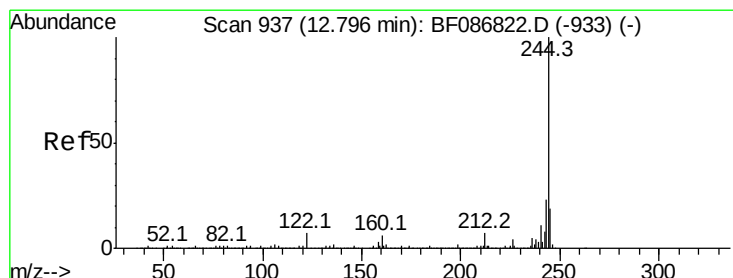
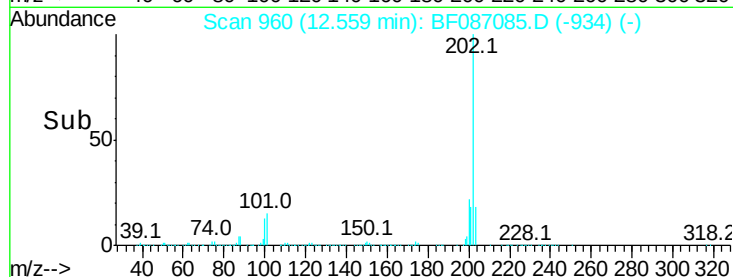
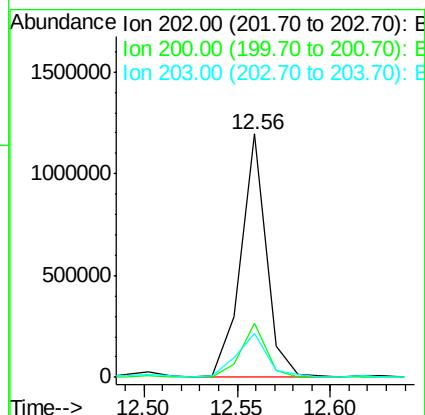
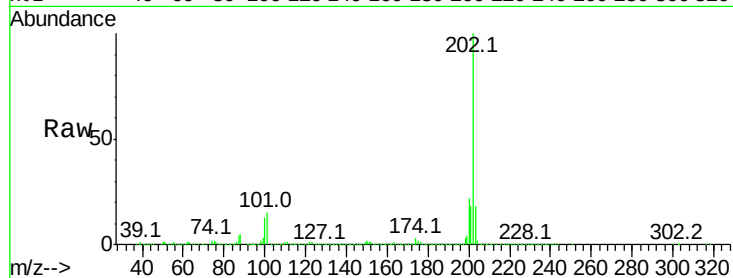
ClientSampleId :

CH-STA-1720-00(0-2)RE

Tot Ion:	202	Resp:	1140534
Ion Ratio	Lower	Upper	
202	100		
200	22.3	17.7	26.5
203	18.3	14.2	21.4

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#78

Terphenyl-d14

Concen: 47.82 ng

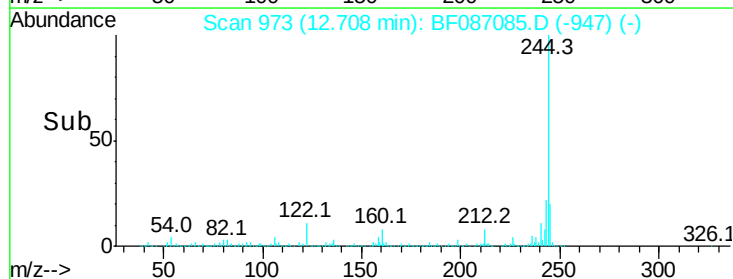
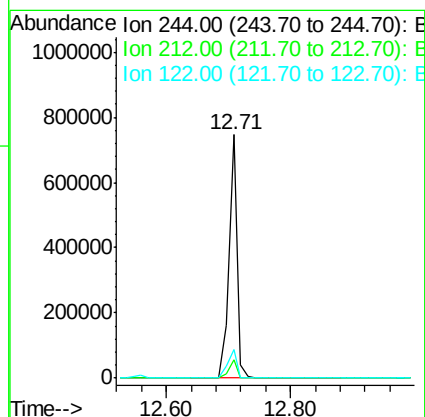
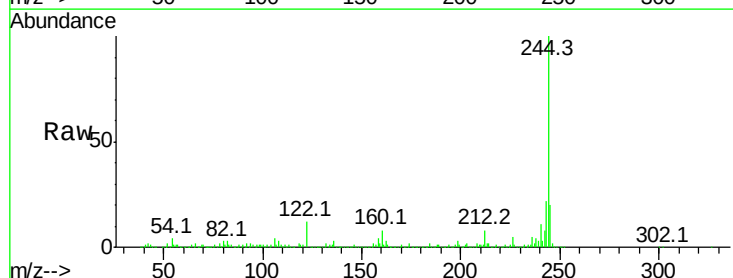
RT: 12.71 min Scan# 973

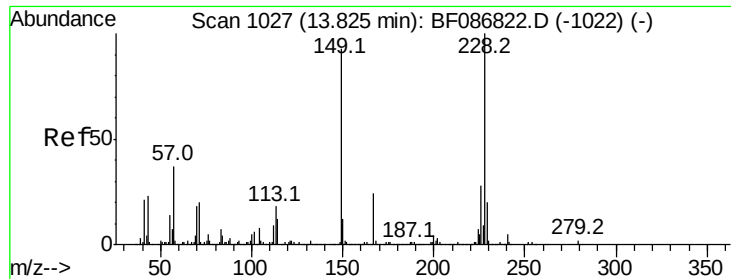
Delta R.T. 0.00 min

Lab File: BF087085.D

Acq: 16 May 2016 17:01

Tgt Ion:	244	Resp:	664800
Ion Ratio	Lower	Upper	
244	100		
212	7.8	6.2	9.2
122	11.5	12.0	18.0#





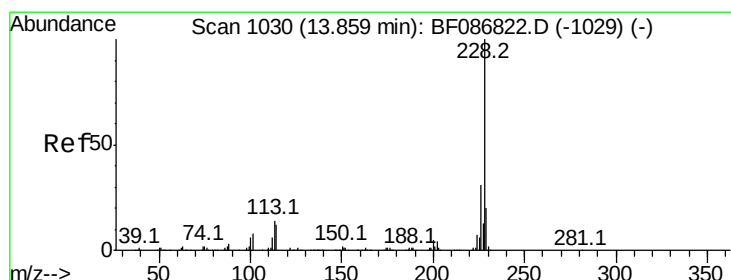
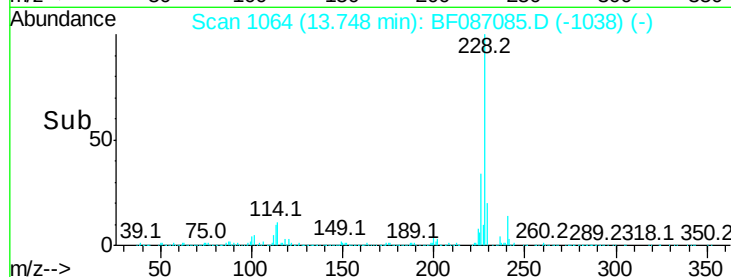
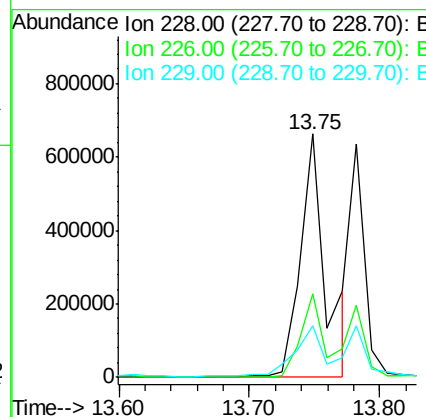
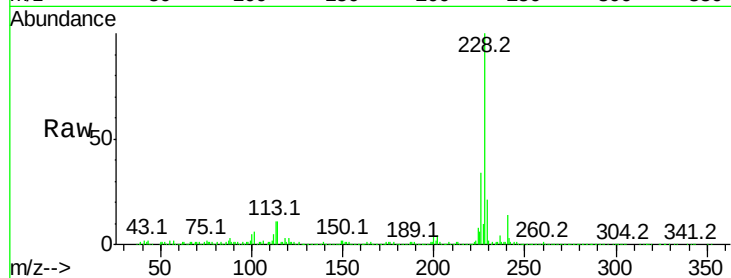
#80
Benzo(a)anthracene
Concen: 53.83 ng
RT: 13.75 min Scan# 1064
Delta R.T. 0.00 min
Lab File: BF087085.D
Acq: 16 May 2016 17:01

Instrument :
BNA_F
ClientSampleId :
CH-STA-1720-00(0-2)RE

Tot Ion	Ratio	Lower	Upper
228	100		
226	34.3	22.5	33.7#
229	21.1	16.6	25.0

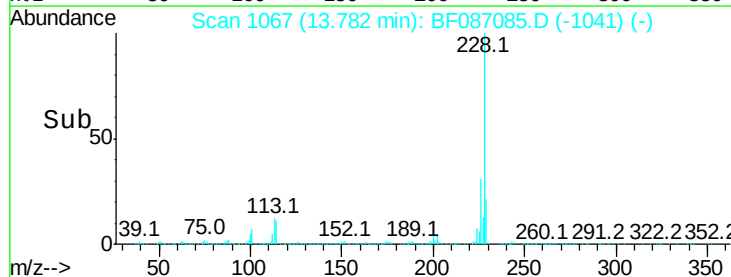
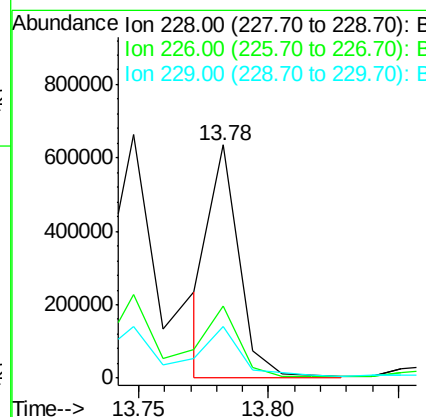
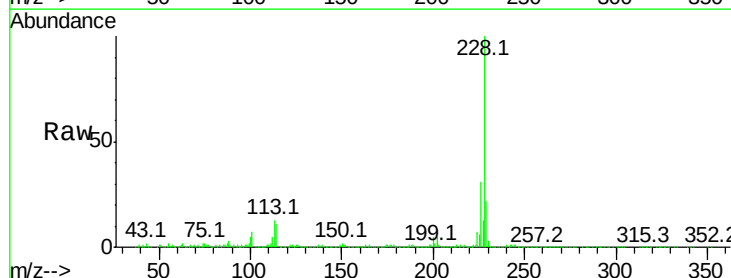
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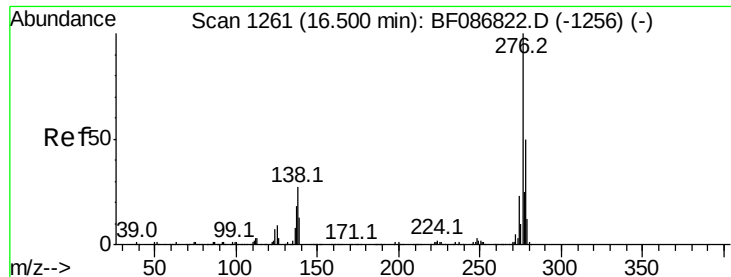
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#82
Chrysene
Concen: 29.94 ng m
RT: 13.78 min Scan# 1067
Delta R.T. 0.00 min
Lab File: BF087085.D
Acq: 16 May 2016 17:01

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.4	36.6
229	22.1	15.8	23.8





#85

Indeno(1,2,3-cd)pyrene

Concen: 21.15 ng

RT: 16.38 min Scan# 1294

Delta R.T. 0.01 min

Lab File: BF087085.D

Acq: 16 May 2016 17:01

Instrument :

BNA_F

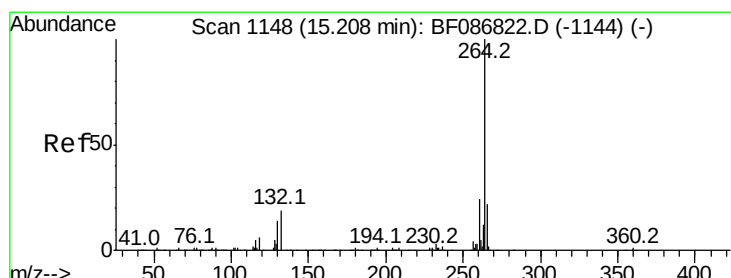
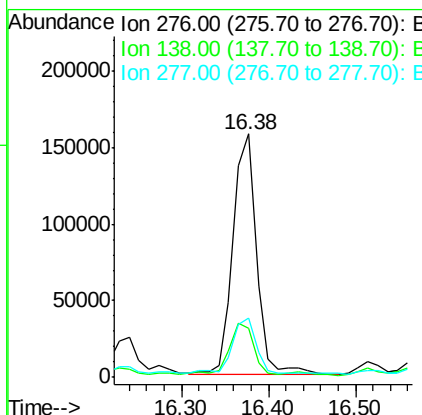
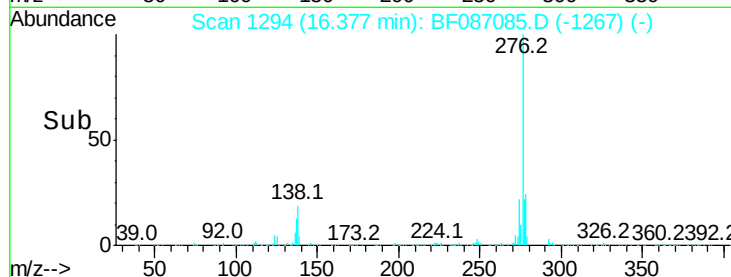
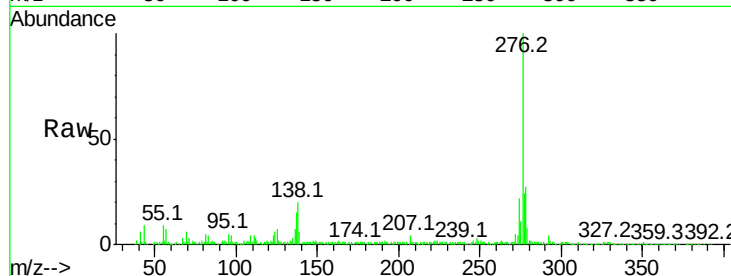
ClientSampleId :

CH-STA-1720-00(0-2)RE

Tot Ion	Ratio	Resp	Lower	Upper
276	100	296425		
138	21.6	25.6	38.4#	
277	23.3	20.5	30.7	

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#86

Perylene-d12

Concen: 20.00 ng

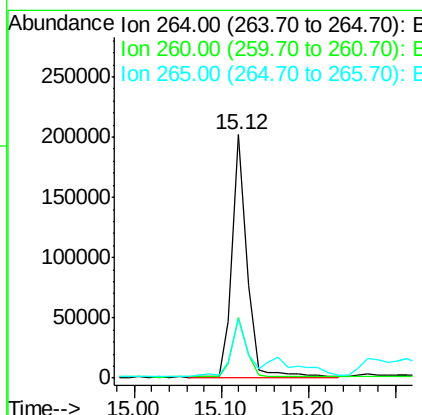
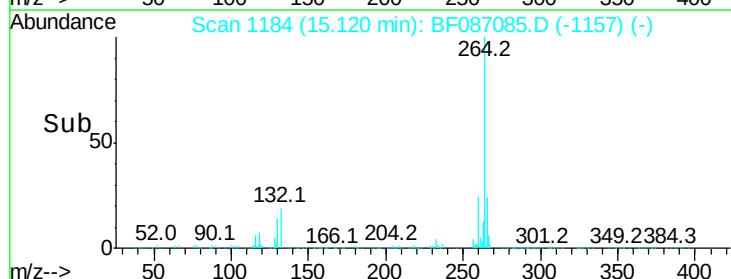
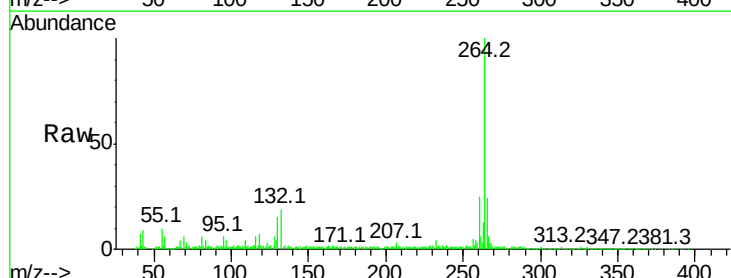
RT: 15.12 min Scan# 1184

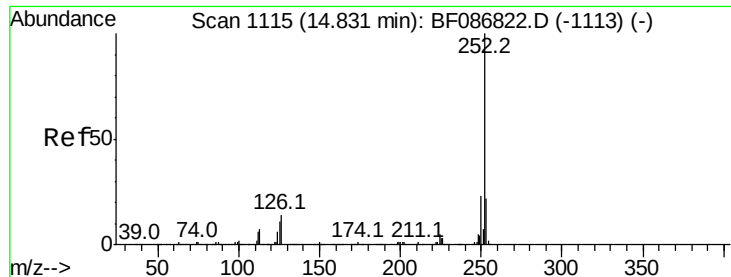
Delta R.T. 0.01 min

Lab File: BF087085.D

Acq: 16 May 2016 17:01

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	239196		
260	24.8	19.5	29.3	
265	24.2	17.3	25.9	





#87

Benzo(b)fluoranthene

Concen: 52.44 ng m

RT: 14.75 min Scan# 1152

Delta R.T. 0.01 min

Lab File: BF087085.D

Acq: 16 May 2016 17:01

Instrument :

BNA_F

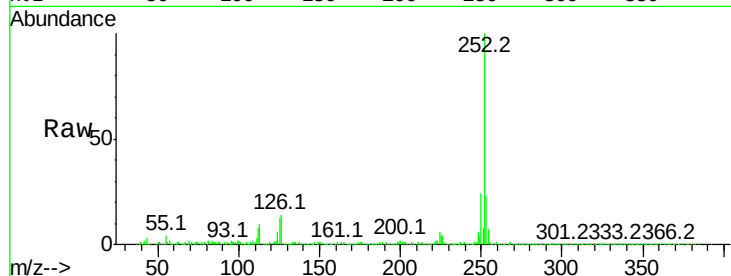
ClientSampleId :

CH-STA-1720-00(0-2)RE

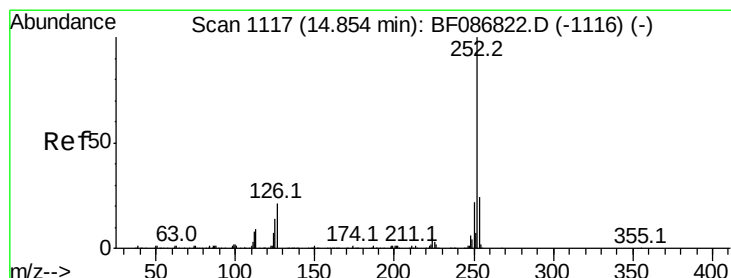
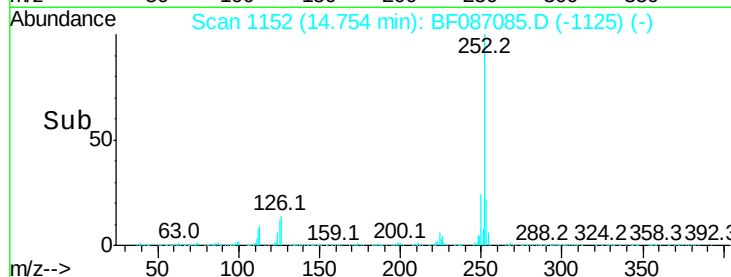
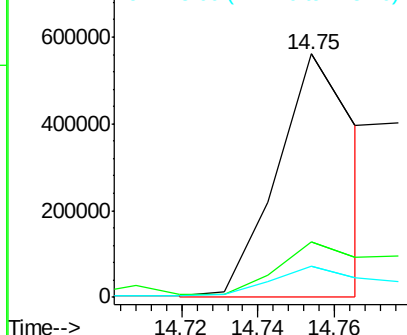
Tot Ion:	252	Resp:	815233
Ion Ratio	Lower	Upper	
252	100		
253	22.7	17.8	26.6
125	12.6	11.4	17.0

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



#88

Benzo(k)fluoranthene

Concen: 25.22 ng m

RT: 14.78 min Scan# 1154

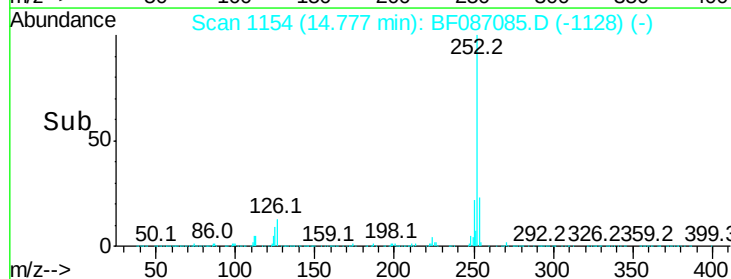
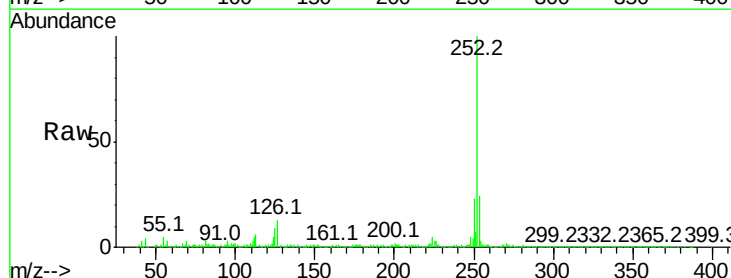
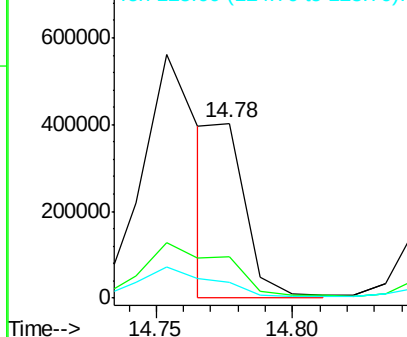
Delta R.T. 0.00 min

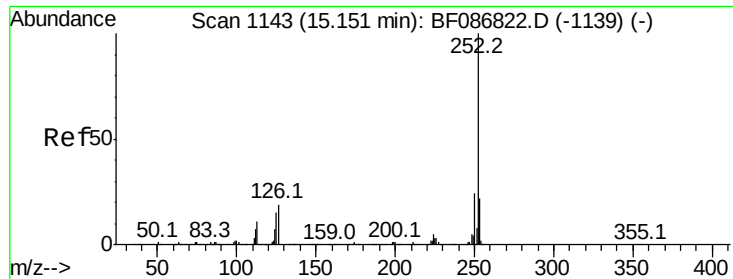
Lab File: BF087085.D

Acq: 16 May 2016 17:01

Tgt Ion:	252	Resp:	320981
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.8	26.6
125	9.3	9.1	13.7

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





#89

Benzo(a)pyrene

Concen: 35.76 ng m

RT: 15.07 min Scan# 1180

Delta R.T. 0.01 min

Lab File: BF087085.D

Acq: 16 May 2016 17:01

Instrument :

BNA_F

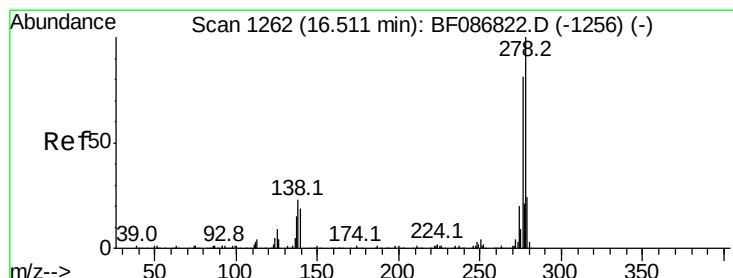
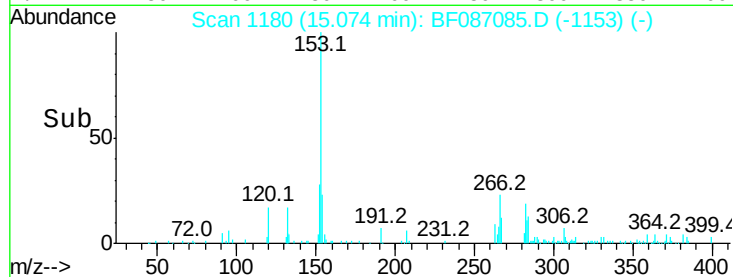
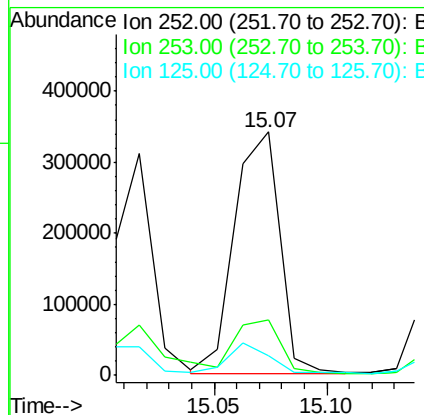
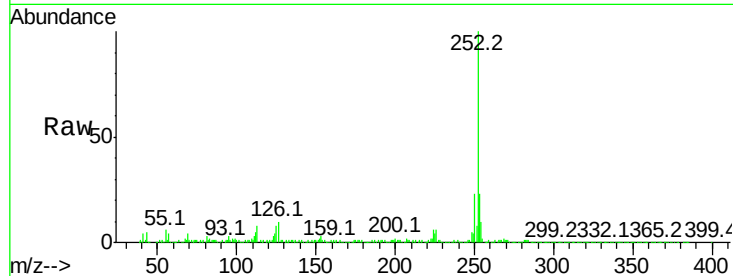
ClientSampleId :

CH-STA-1720-00(0-2)RE

Tot Ion:	252	Resp:	479446
Ion Ratio	Lower	Upper	
252	100		
253	22.7	17.2	25.8
125	8.3	9.0	13.6#

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#90

Dibenzo(a,h)anthracene

Concen: 6.70 ng m

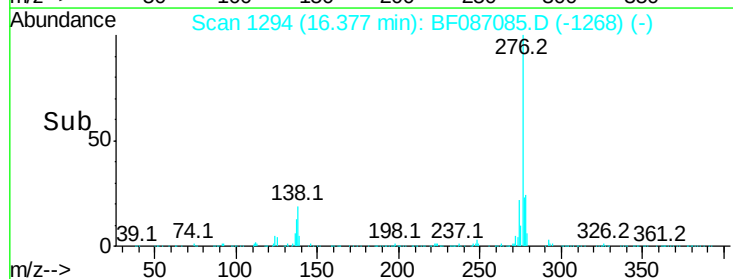
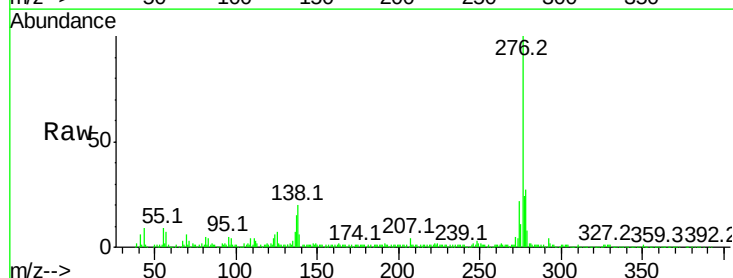
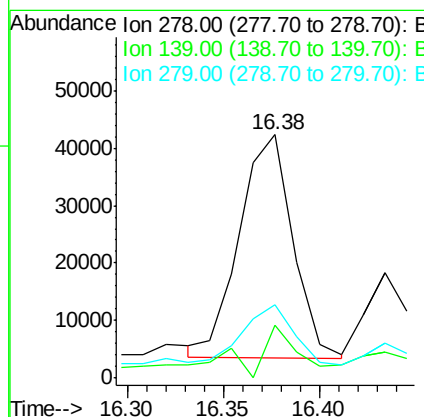
RT: 16.38 min Scan# 1294

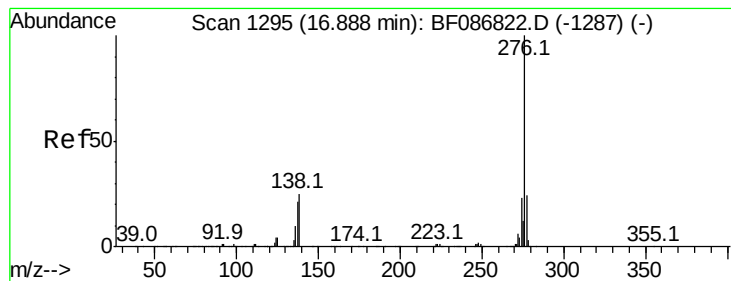
Delta R.T. 0.00 min

Lab File: BF087085.D

Acq: 16 May 2016 17:01

Tgt Ion:	278	Resp:	75726
Ion Ratio	Lower	Upper	
278	100		
139	21.6	16.6	24.8
279	29.9	19.6	29.4#





#91

Benzo(a,h,i)perylene

Concen: 21.52 ng

RT: 16.75 min Scan# 1327

Delta R.T. 0.01 min

Lab File: BF087085.D

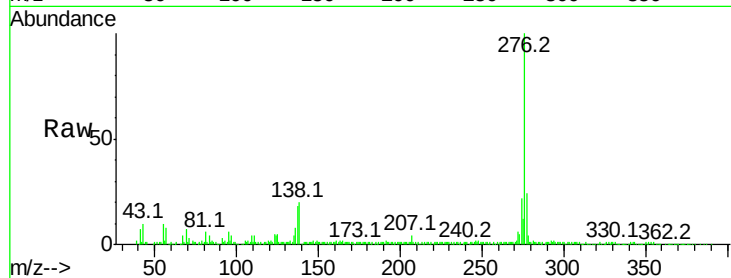
Acq: 16 May 2016 17:01

Instrument :

BNA_F

ClientSampleId :

CH-STA-1720-00(0-2)RE



Tot Ion:	276	Resp:	247083
Ion Ratio	Lower	Upper	
276	100		
277	24.0	19.6	29.4
138	19.9	23.6	35.4

Manual Integrations
APPROVED

umangi
5/17/2016 7:15:38 PM

